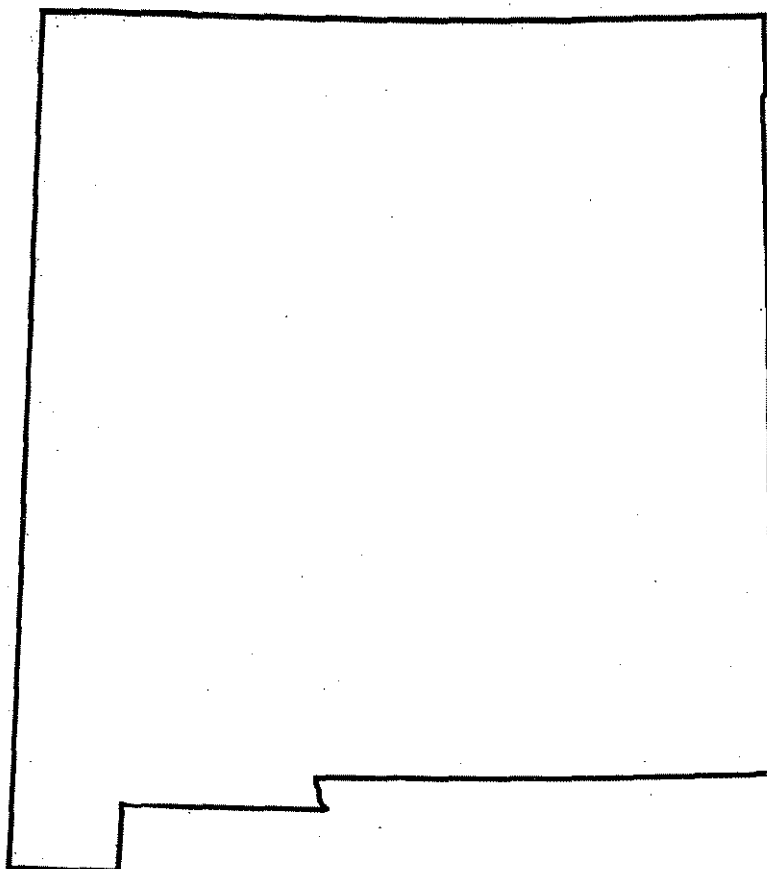




Water Resources Data New Mexico Water Year 1994

by J.P. Borland and Kim Ong



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NM-94-1
Prepared in cooperation with the State of New Mexico
and with other agencies

U.S. DEPARTMENT OF THE INTERIOR

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1995

PREFACE

This annual hydrologic data report of New Mexico is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and water quality provide the hydrologic information needed by Federal, State, and local agencies and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for New Mexico are contained in this volume.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. The authors had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines. The following individuals contributed significantly to the preparation of the publication manuscript for this report:

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SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

[Letters after station name designate type of data: (c) chemical; (d) discharge; (e) elevation, stage, or contents; (m) microbiological; (s) sediment; (t) water temperature]

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IN THIS VOLUME.

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WELL 321328107565301	(formerly 321415107565501)	Local number	24S.11W.14.122.....	530
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DISCONTINUED SURFACE-WATER DISCHARGE STATIONS

The following continuous-record surface-water discharge stations (gaging stations) in New Mexico have been discontinued. Daily streamflow records were collected and published for the period of record, expressed in water years, shown for each station. Those stations with an asterisk (*) after the station number are currently operated as crest-stage partial-record stations. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

Station name	Station number	Drainage area (mi ²)	Period of record
ARKANSAS RIVER BASIN			
Bennett Spring near Capulin, NM	07153410		1977-81
Dry Cimarron River near Guy, NM	07153500	545	1942-73
Dry Cimarron River near Folsom, NM	07154000	895	1927-33
Canadian River near Hebron, NM	07199000	229	1946-86
Chicorica Creek below Lake Maloya, NM	07199500	26	1945-51
Chicorica Creek near Yankee, NM	07199600	32.5	1975-79, 1984-87
East Fork Chicorica Creek near Yankee, NM	07199650	23.9	1984-87
Chicorica Creek below East Fork near Raton, NM	07200000	71	1945-51
Chicorica Creek near Raton, NM	07200500	87	1910-14, 1984-87
Una de Gato Creek near Raton, NM	07201400	80	1910-13
Una de Gato Creek below Throttle Dam near Raton, NM	07201420	49.5	1975-83
Una de Gato Creek near Hebron, NM	07201500	224	1946-50
Chicorica Creek near Hebron, NM	07202000	381	1945-52, 1983-87
Vermejo River near Colfax, NM	07203500	--	1945-50
McEvoy Creek near Eagle Nest, NM	07206200	1.95	1961-68
Tolby Creek near Eagle Nest, NM	07206300	8.5	1961-68
Clear Creek near Ute Park, NM	07206400*	7.44	1961-68
Cimarron Creek at Ute Park, NM	07206500	260	1907-50
Rayado Creek below Abreu's Ranch, near Cimarron, NM	07209000	75	1912-13
Rayado Creek near Miami, NM	07209500	76	1939-55
Rayado Creek near Springer, NM	07210000	--	1907-09
Uracca Creek near Cimarron, NM	07210500	6.3	1912-15
East Fork Ocate Creek at Ocate, NM	07212000	35	1914-28
Ocate Creek near Ocate, NM	07212500	--	1914
Colmor intake canal near Ocate, NM	07213000	--	1933-51
Sweetwater Creek near Colmor, NM	07213500	--	1914
Canadian River near Roy, NM	07214000	4,066	1936-65
Mora River near Holman, NM	07214500	57	1953-74
Vigil Canyon near Holman, NM	07214600	2.8	1956-63
Agua Fria Creek near Holman, NM	07214700	9.2	1956-63
Rio la Casa near Cleveland, NM	07214800	23	1956-70
La Cueva Canal at La Cueva, NM	07215000	--	1906-11
Cebolla River near Golondrinas, NM	07215600	64	1956-63
Mora River at Weber, NM	07216000	--	1903-04
Coyote Creek below Black Lake, NM	07217000	48	1952-63
Coyote Creek above Guadalupita, NM	07217100	71	1956-74
Coyote Creek at Guadalupita, NM	07217500	90	1920-23

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS -- Continued

Station name	Station number	Drainage area (mi ²)	Period of record
ARANSAS RIVER BASIN -- Continued			
Mora River near Watrous, NM	07218100	521	1956-63, 1956-73
Sapello River at Sapello, NM	07218500	--	1903-04
Sapello canal at Sapello, NM	07218600	--	1956-70
Manuelitas Creek near Rociada, NM	07218700	52	1956-63
Sapello River at Sapello, NM	07220000	132	1915-21
Lake Isabel feeder canal near Sapello, NM	07220100	--	1956-75
Sapello River at Los Alamos, NM	07220500	144	1905-11
Sapello River near Watrous, NM	07220600	213	1956-63
Canadian River near Bell Ranch, NM	07222000	6,200	1915-17, 1927-39
Bell Ranch Canal near Conchas Dam, NM	07223000	--	1942-84
Canchos Canal below Conchas Dam, NM	07223300	--	1961-82, 1984-92
Canadian River below Conchas Dam, NM	07224500	7,417	1936-38, 1942-72
Pajarito Creek near Hanley, NM	07225100	310	1911-12
Pajarito Creek near Vigil Creek, near Hanley, NM	07225200	350	1912-13
Ute Creek near Bueyeros, NM	07226000	620	1949-54
Canadian River above New Mexico-Texas State line	07227140	12,616	1969-73
Tramperos Creek near Stead, NM	07227200*	556	1966-73
BRAZOS RIVER BASIN			
Running Water Draw near Clovis, NM	08080600*	109	1956-64
RIO GRANDE BASIN			
Latir Creek Outflow Lake #9 near Amalia, NM	08254400		1987-88
Latir Creek Outflow Lake #2 near Amalia, NM	08254425		1986-88
Costilla Creek near Amalia, NM	08254500	152	1949-59 1961-81
Ute Creek near Amalia, NM	08255000	12	1949-59
Acequia Madre at Costilla, NM	08256000	--	1944-92
Mesa ditch near Garcia, CO	08256500	--	1944-65 1969-83
Middle ditch at Garcia, CO	08257000	--	1944-56
Cerro Canal at Costilla, NM	08258000	--	1944-92
Association ditch at Costilla, NM	08258500	--	1955-71
Cerro Canal below Association Ditch at Costilla, NM	08258600	--	1972-92
Cerro Canal near Jaroso, CO	08259000	--	1944-72
Cerro Canal at State line near Jaroso, CO	08259600	--	1973-92
Penasquito ditch at Costilla, NM	08260000	--	1955-61
Costilla Creek below diversion dam, at Costilla, NM	08260500	197	1952-86
Alire ditch at Garcia, CO	08261500	--	1944-59
Costilla Creek near Jaroso, CO (near Mouth, NM)	08262500	290	1912-13, 1948-61
Latir Creek near Cerro, NM	08263000	10	1937-70
Red River near Red River, NM	08264000	19.1	1940-64
Red River below Zwergle Damsite, near Red River, NM	08264500	25.7	1963-73
Red River below Questa, NM	08266500	180	1910-22

Station name	Station number	Drainage area (mi ²)	Period of record
RIO GRANDE BASIN -- Continued			
Red River at mouth, near Questa, NM	08267000	190	1950-78
Rio Hondo at Valdez, NM	08268000	38	1916-34
Rio Hondo at Damsite at Valdez, NM	08268200	40.3	1963-66
Arroyo Hondo at Arroyo Hondo, NM	08268500	65.6	1912-28, 1932-85
Acequia Madre at Taos, NM	08269500	--	1940-41
North channel of Rio Pueblo de Taos at Taos, NM	08270000	80	1936-41
Rio Pueblo de Taos at Taos, NM	08270500	80	1936-41
Tenorio ditch near Arroyo Seco, NM	08271500	--	1935-50
Rio Lucero diversions near Arroyo Seco, NM	08272000	--	1932-33
Indian ditch near Arroyo Seco, NM	08272500	--	1934-50
Seco ditch near Arroyo Seco, NM	08273000	--	1934-50
Juan Manuel ditch near Arroyo Seco, NM	08273500	--	1935-50
Prado ditch near Arroyo Seco, NM	08274000	--	1934-50
Rio Lucero below diversions, near Arroyo Seco, NM	08274500	25	1934-41
Rio Fernando de Taos near Taos, NM	08275000	71.7	1912-17, 1927-28, 1962-80
Rio Pueblo de Taos near Ranchito, NM	08275300	199	1957-80
Rio Chiquito near Talpa, NM	08275600	37.0	1957-80
Rio Pueblo de Taos at Los Cordovas, NM	08276000	359	1910-65
Carson Reservoir near Carson, NM	08277000	190	1940-60
Picuris ditch near Penasco, NM	08277500	--	1936-41
Pueblo Creek near Penasco, NM	08278000	--	1936-41
Alcalde ditch at Chamita, NM	08280000	--	1936-41
San Rafael ditch at Alcalde, NM	08280500	--	1936-41
Acequia Madre at Alcalde, NM	08281000	--	1936-41
Rio Grande above San Juan Pueblo, NM	08281100	10,530	1963-87
Rio Chama near Chama, NM	08281500	--	1912-16
Rio Brazos near Brazos, NM	08282000	--	1913-17
Chavez Creek near Brazos, NM	08282500	--	1914-15
Rio Brazos at Brazos, NM	08283000	--	1912-13
Rio Chama at Park View, NM	08283500	405	1912-15, 1916, 1924-55
Rito de Tierra Amarilla at Tierra Amarilla, NM	08284000	49.7	1914-15
Willow Creek near Park View, NM	08284500	193	1936-71
Rio Nutrias near Cebolla, NM	08286000	--	1914-15
Canjilon Creek near Canjilon, NM	08286600		1911-12, 1913
Rio Chama at Abiquiu, NM	08287100	--	1895-97
Rio Chama near Abiquiu, NM	08287500	2,284	1941-67
El Rito Creek near El Rito, NM	08288000	50.5	1931-51
Rio Vallecitos at Vallecitos, NM	08288500	--	1911-14
Santa Clara ditch near Espanola, NM	08290500	--	1936-41
Santa Cruz River at Riverside, NM	08291500	188	1942-51
Hill Acequia at head, near Espanola, NM	08292500	--	1940-41

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS -- Continued

Station name	Station number	Drainage area (mi ²)	Period of record
Hill Acequia near Espanola, NM	08293000	--	1940
Guachupangue ditch near Espanola, NM	08293500	--	1936-41
San Ildefonso ditch near Espanola, NM	08294000	--	1940-41
Rio Nambe at Nambe Falls, NM	08294300	25.1	1963-78
Nambe Canal near Nambe, NM	08294500	--	1932-51
Rio Nambe near Nambe, NM	08295000*	38.2	1932-51
Rio En Medio near Santa Fe, NM	08295200	.63	1963-73
Llano Frio ditch near Nambe, NM	08295500	--	1936-50
Llano ditch near Nambe, NM	08296000	--	1936-50
Mioses Pena ditch near Nambe, NM	08296500	--	1936-38
Mocha ditch at Nambe, NM	08297000	--	1936-50
Comunidad ditch at Nambe, NM	08297500	--	1936-50
Ortiz ditch at Nambe, NM	08298000	--	1936-50
Canyon ditch near Nambe, NM	08298500	--	1936-50
Acequia Rincon near Nambe, NM	08299000	--	1936-50
Las Joyas ditch near Nambe, NM	08299500	--	1936-50
Trujillo ditch near Nambe, NM	08300000	--	1936-45
Barranco Alto ditch near Nambe, NM	08300500	--	1936-50
Pojoaque River at Pojoaque Bridge, near Nambe, NM	08301000	--	1936-41
Jacona ditch near Nambe, NM	08301500	--	1936-39
Jacona ditch near San Ildefonso, NM	08302000	--	1940-48
North Fork Tesuque Creek near Santa Fe, NM	08302200	1.60	1962-73
Middle Fork Tesuque Creek near Santa Fe, NM	08302300	.43	1961-73
South Fork Tesuque Creek near Santa Fe, NM	08302400	.47	1962-73
Tesuque Creek above diversions near Santa Fe, NM	08302500	11.7	1936-52
Cajon Grande ditch near Santa Fe, NM	08303000	--	1936-41
De La Cruz ditch near Santa Fe, NM	08303500	--	1936-41
Acequia Madre near Santa Fe, NM	08304000	--	1936-41
Acequia Madre at head, near Santa Fe, NM	08304050	--	1936-41
Little Tesuque Creek near Santa Fe, NM	08304100	.64	1962-73
Little Tesuque Creek tributary No. 4 near Santa Fe, NM	08304200	.69	1964-73
Little Tesuque Creek tributary No. 3 near Santa Fe, NM	08304300	.65	1963-73
Little Tesuque Creek tributary No. 2 near Santa Fe, NM	08304400	.45	1962-73
Little Tesuque Creek near Santa Fe, NM	08305000	7.06	1936-41
Rio Tesuque at Tesuque, near Santa Fe, NM	08305500	--	1938-41
Acequia Medio near Santa Fe, NM	08306000	--	1936-46
Acequia Medio at waste, near Santa Fe, NM	08306500	--	1936-38
Hubbard ditch near Santa Fe, NM	08307500	--	1938-41
Mitchell ditch near Santa Fe, NM	08308000	--	1936-51
Post ditch near Tesuque Pueblo, NM	08308500	--	1936-41
Qwiyo ditch near Tesuque Pueblo, NM	08309000	--	1936-41
Corral ditch near Tesuque Pueblo, NM	08309500	--	1936-41
Acequia Indios near San Ildefonso, NM	08310000	--	1936-41
Acequia de la Otra Banda near San Ildefonso, NM	08310500	--	1936-41

Station name	Station number	Drainage area (mi ²)	Period of record
RIO GRANDE BASIN -- Continued			
El Rancho ditch near San Ildefonso, NM	08311000	--	1936-41
San Antonio ditch near San Ildefonso, NM	08311500	--	1936-41
Well ditch at San Ildefonso, NM	08312000	--	1937, 1938-51
Ortiz ditch at San Ildefonso, NM	08312500	--	1936-41
Pojoaque River near San Ildefonso Pueblo, NM	08312600	184	1972-79
Rito de los Frijoles near Los Alamos, NM	08313300	8.9	1959-63
Rio Grande at Cochiti, NM	08314500	14,600	1924-70
Santa Fe River at Monument Rock, near Santa Fe, NM	08315000	14	1910
Galisteo Creek above Galisteo Reservoir, NM	08317850	567	1970-76
Galisteo Creek at Domingo, NM	08318000	640	1941-71
San Felipe east side acequia near Domingo, NM	08318500	--	1936-41
Rito San Antonio near Los Alamos, NM	08319500	--	1949-50
Redondo Creek near Jemez Springs, NM	08319945	12.1	1982-85
Sulfur Creek near Jemez Springs, NM	08319950	38.0	1982-85
Jemez River near Jemez Springs, NM	08320000	--	1949-50
East Fork Jemez River near Los Alamos, NM	08320500	--	1949-50
East Fork Jemez River near Jemez Springs, NM	08321000	--	1949-50
Jemez River below East Fork, near Jemez Springs, NM	08321500	173	1951-90
Rio Las Vacas near Cuba, NM	08322000	--	1939-41
Rio Cebolla near Jemez Springs, NM	08322500	--	1939
Rio Guadalupe near Jemez Springs, NM	08323500	230	1938-42, 1949-50
Jemez east side ditch near Jemez, NM	08324500	--	1936-41
Jemez west side ditch near Jemez, NM	08325000	--	1936-41
Antonio Pecos ditch near Jemez, NM	08325500	--	1936-41
San Ysidro ditch near San Ysidro, NM	08326000	--	1936-41
Jemez River at San Ysidro, NM	08326500	854	1937-41
Zia ditch near San Ysidro, NM	08327000	--	1936-41
Zia Reservoir near San Ysidro, NM	08327500	2.4	1954-60
Jemez River above Jemez Canyon Dam, NM	08328000	961	1953-58
Piedra Lisa Arroyo near Bernalillo, NM	08329100	4.1	1955-74
Rio Grande near Bernalillo, NM	08329500	17,300	1941-69
Grant Line Arroyo at Albuquerque, NM	08329865	0.052	1987-91
Tijeras Arroyo at Albuquerque, NM	08330500*	75.3	1921-22, 1943-49
Tijeras Arroyo above Four Hills Bridge at Albuquerque, NM	08330505	77.0	1989-91
Tijeras Arroyo at Kirtland Air Force Base, NM	08330560	80.6	1987-88
Tijeras Arroyo below South Diversion Channel Inlet near Albuquerque, NM	08330800	--	1974-88
Rio Grande near Isleta, NM	08331000	17,900	1925-29, 1936-38
North Pajarito Arroyo at Albuquerque, NM	08331130	.58	1979-87

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS -- Continued

	Station	Drainage area	Period of
RIO GRANDE BASIN -- Continued			
North Pajarito Arroyo at Albuquerque, NM	08331140	.81	1979-83
Rio Grande near Belen, NM	08331500	18,230	1941-57
Rio Grande near Bernardo, NM	08332000	19,230	1936-39, 1941-64
Lower San Juan Riverside drain near Bernardo, NM	08332030	--	1954-75
La Jara Creek near La Jara, NM	08332500	--	1932-33
Rio Puerco near Cabezon, NM	08333000	360	1943-51
Rio Puerco at Cabezon, NM	08333500	397	1944-51
Papers Wash near Star Lake Trading Post, NM	08334300	20.3	1978-82
Arroyo Chico near Guadalupe, NM	08340500	1,390	1943-86
Rio Puerco near Guadalupe, NM	08341000	1,860	1943
Bluewater Creek near Bluewater, NM	08342000	209	1912-19, 1927-72
San Mateo Creek near San Mateo, NM	08342600	75.6	1977-82
Arroyo del Puerto near San Mateo, NM	08342700	96.8	1980-82
McCartys south side ditch near San Fidel, NM	08344000	--	1940-42, 1950-51
McCartys north side ditch near San Fidel, NM	08344500	--	1940-42, 1950-51
Acomita Reservoir outlet near San Fidel, NM	08345000	--	1938-41
Rio San Jose near San Fidel, NM	08345500	2,310	1936-42, 1950-51
Seama-Paraje ditch near Casa Blanca, NM	08346000	--	1937-41
Casa Blanca ditch at Casa Blanca, NM	08346500	--	1937-41
New Laguna ditch wasteway near Casa Blanca, NM	08347000	--	1937-41
New Laguna ditch near New Laguna, NM	08347500	--	1937-41
Rio San Jose near Casa Blanca, NM	08348000	--	1936-41
Encinal Creek near Casa Blanca, NM	08348500*	6.19	1937-39
Laguna ditch at New Laguna, NM	08349000	--	1936-41
Paguate Creek near Laguna, NM	08349500	--	1937-41
Rio Paguate below Jackpile Mine near Laguna, NM	08349800	107	1976-93
Paguate Reservoir outlet near Laguna, NM	08350000	--	1940-41
Rio San Jose near Laguna, NM	08350500	3,040	1937-41, 1973-76
Mesita ditch near Laguna, NM	08351000	--	1936-41
Rio Puerco at Rio Puerco, NM	08352500	6,590	1909-12, 1934-76
Alamo Creek near Alamo, NM	08353130	22.4	1983-85
Rio Salado near Alamo, NM	08353150	540	1983-85
Rio Salado near San Acacia, NM	08354000	1,380	1947-84
Rio Grande at San Acacia, NM	08355000	26,770	1936-64
Nogal Arroyo Floodway near Socorro, NM	08355200	--	1969-77
Arroyo de la Matanza near Socorro, NM	08355300	46.0	1969-77
Rio Grande at San Antonio, NM	08355500	27,400	1951-57
Socorro Main Canal South near San Antonio, NM	08356000	--	1937-38, 1948-71
San Antonio Riverside Drain near San Antonio, NM	08356500	--	1948-71
Elmendorf Interior Drain near San Antonio, NM	08357000	--	1936-38, 1948-71

Station name	Station number	Drainage area (mi ²)	Period of record
RIO GRANDE BASIN -- Continued			
San Antonio Riverside Drain near San Marcial, NM	08357500	--	1948-71
Rio Grande Conveyance Channel below heading, near San Marcial, NM	08358000	--	1953-57
Rio Grande at San Marcial, NM	08358500	27,700	1895-1964
Milligan Gulch near San Marcial, NM	08358550	413	1968-78
Rio Grande Conveyance Channel at mouth of Nogal Canyon, near Truth or Consequences, NM	08359000	--	1953-57
Rio Grande at the narrows, in Elephant Butte Reservoir, NM	08359500	28,500	1951-57
Alamosa Creek near Monticello, NM	08360000*	403	1931-42
Las Cruces Arroyo near Las Cruces, NM	08363600	13.5	1958-66
Tortugas Arroyo near Las Cruces, NM	08363700	20.7	1962-74
Rio Grande at Vinton Bridge near Anthony, TX	08363840	28,680	1970-74
Pecos River near Cowles, NM	08378000	189	1910-19
Pecos River near San Jose, NM	08379000	539	1939-40
Tecolote Creek below Wright Canyon near El Porvenir, NM	08379187	5.42	1987-92
Tecolote Creek near San Pablo, NM	08379200	83	1960-65
South Fork Gallinas Creek near El Porvenir, NM	08380000	25	1911-20
Gallinas Creek at Montezuma, NM	08381000	87	1903, 1904-66
Storrie feeder canal near Las Vegas, NM	08381500	--	1949-52
Gallinas River near Lourdes, NM	08382000	313	1951-63
Pecos River near Colonias, NM	08382700	2,340	1970-74
Los Esteros Creek Tributary above Santa Rosa Lake, NM	08382760	13.7	1973-90
Pecos River above Los Esteros Dam Site, near Santa Rosa, NM	08382800	2,430	1965-77
Pecos River at Santa Rosa, NM	08383000	2,650	1928-92
Pecos River near Fort Sumner, NM	08385500	5,300	1904-10, 1912-13, 1921-23
Pecos River below Fort Sumner, NM	08385520	5,600	1957-58, 1962-70
Pecos River below Yeso Arroyo, near Fort Sumner, NM	08385620	7,000	1965-68
Pecos River above Huggins Creek, near Roswell, NM	08385640	7,800	1965-68
F. Herrera ditch S. at Hollywood, NM	08386900		1973-84
Rio Ruidoso near Glencoe, NM	08387500	--	1910-11
Eagle Creek near Alto, NM	08387800	15.7	1969-80
Rio Ruidoso at Hondo, NM	08388000	290	1930-55
Rio Bonito at Angus, NM	08388500	45.5	1930-31
Rio Bonito at Hondo, NM	08389500	295	1930-55
Rio Hondo at Hondo, NM	08390000	--	1930-31
Rio Hondo at Picacho, NM	08390100	715	1908-9, 1956-62
Rio Hondo at Hondo Reservoir site, near Roswell, NM	08392500	970	1903-5
Rio Hondo below reservoir outlet, near Roswell, NM	08393000	--	1908
Taylor-Moore ditch near Roswell, NM	08393100	--	1905
Rocky Arroyo above Two Rivers Reservoir near Roswell, NM	08393200	31	1963-80
Rocky Arroyo below Rocky Dam, near Roswell, NM	08393300	65	1963-80
Rio Hondo at Roswell, NM	08393500	--	1903-6

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS -- Continued

Station name	Station number	Drainage area (mi ²)	Period of record
RIO GRANDE BASIN -- Continued			
North Spring River at Roswell, NM	08393600	19.5	1958-77
Pecos River near Roswell, NM	08394000	--	1903-6
Pecos River near Hagerman, NM	08394100	13,360	1968-90
Rio Felix at old highway bridge near Hagerman, NM	08394500	932	1939-87
Rio Felix near Hagerman, NM	08395000	934	1932-39
Cottonwood Creek near Lake Arthur, NM	08396000	199	1932-65
Rio Penasco at Elk, NM	08397450	--	1910-11
Rio Penasco near Elk, NM	08397500	--	1911
Rio Penasco near Dunken, NM	08397600*	583	1956-62
Pecos River below McMillan Dam, NM	08401000	16,990	1906-09, 1910-11, 1939-40, 1946-88
Pecos River above Seven Rivers near Lakewood, NM	08401100	17,000	1974-87
Pecos River below Avalon Dam, NM	08404500	--	1940
Pecos River at Carlsbad, NM	08405000	18,100	1903-09, 1907-08, 1914-15, 1920-69
Rattlesnake Springs near White City, NM	08405300	--	1961-62
Black River at Malaga, NM	08406000	360	1939-40
MIMBRES RIVER BASIN			
Mimbres River at McKnight Dam Site, near Mimbres, NM	08476300	97.3	1963-72
Bear Canyon near Mimbres, NM	08476500	14.5	1937-55
Mimbres River near Mimbres, NM	08477000	152	1921-76
Mimbres River near Faywood, NM	08477500	440	1909-11, 1912-14, 1916-17, 1920-21, 1927-55, 1963-68
Mimbres River near Spalding, NM	08477530	472	1963-68
San Vicente Arroyo at Silver City, NM	08477600	26.5	1953-65
Rio de Arena near Hurley, NM	08477700	16	1913-14
Stevens Creek near Fort Bayard, NM	08478004	--	1907-12, 1912-14
Cameron Creek at Fort Bayard, NM	08478008	--	1911-13
Cameron Creek near Hurley, NM	08478012	46	1913-14
Whitewater Creek at Hurley, NM	08478016	35	1913-14
Wamel Canal at head, near Deming, NM	08478300	--	1963-68
Mimbres River below Wamel heading near Deming, NM	08478400	1,101	1963-68
TULAROSA VALLEY			
Three Rivers near Three Rivers, NM	08480600	6.9	1956-58
Indian Creek near Three Rivers, NM	08480700*	6.8	1956-58
Indian Creek flume near Three Rivers, NM	08480800	--	1956-58
Indian Creek at Mouth, near Three Rivers, NM	08480900	10.9	1956-58
Rio Tularosa at Mescalero, NM	08481300	--	1910-11
Rio Tularosa near Tularosa, NM	08482000	--	1938-47
Rio La Luz near La Luz, NM	08483000	30	1911-12

Station name	Station number	Drainage area (mi ²)	Period of record
TULAROSA VALLEY -- Continued			
Rio Fresnal near Mountain Park, NM	08484000	44	1911-12
Rio La Luz at La Luz, NM	08484500	74	1910-13
Alamogordo-La Luz ditch at La Luz, NM	08485000	--	1934-49
Alamo Creek at Woods Ranch, near Alamogordo, NM	08485500	--	1931-37
Alamogordo water supply near Alamogordo, NM	08486000	--	1932-51
Tularosa Valley tributary near White Sands, NM	08486250	17.2	1965-74
Tularosa Valley tributary at White Sands, NM	08486260	21.0	1965-74
SALT BASIN			
Sacramento River near Sunspot, NM	08492900	12.8	1984-89
San Juan River at Rosa, NM	09350500	1,990	1895-99, 1910-65
Los Pinos River at Ignacio, CO	09354000		1910-61
Martinez ditch near Archuleta, NM	09355200	--	1955-57
Citizens ditch near Turley, NM	09356000	--	1938, 1951-58
San Juan River near Blanco, NM	09356500	3,560	1907-09, 1910, 1927-55
Canon Largo near Blanco, NM	09356565	1,700	1977-81
San Juan River at Bloomfield, NM	09357000	5,410	1909, 1910-11, 1927-31, 1955-63
San Juan River at Hammond Bridge near Bloomfield, NM	09357100	5,540	1978-81
Gallegos Canyon near Farmington, NM	09357250	290	1978-81
Animas River at Aztec, NM	09364000	1,270	1904, 1907-15
Shumway Arroyo near Fruitland, NM	09367555	62.8	1975-82
Chaco Wash near Star Lake Trading Post, NM	09367660	59.0	1978-82
Chaco Wash at East Boundary at Chaco Canyon National Monument, NM	09367676	364	1980-82
Fajada Wash at Chaco Canyon National Monument, NM	09367678	199	1980-83
Gallo Wash at Chaco National Monument, NM	09367682	36.2	1978-81
Chaco Wash near Pueblo Bonito at bridge at Chaco Canyon National Monument, NM	09367683	619	1980-83
Ah-shi-sie-pah Wash near Kimbeto, NM	09367685	8.2	1977-84
Kim-me-ni-oli Wash near Crownpoint, NM	09367687	228	1982-83
Kim-me-ni-oli Wash near Lake Valley, NM	09367689	400	1982-83
De-na-zin Wash near Bisti Trading Post, NM	09367710	184	1975-82
Black Springs Wash near Mexican Springs, NM	09367900*	7.55	1979-82
Hunter Wash at Bisti Trading Post, NM	09367930*	45.6	1975-82
Teec-ni-di-tso Wash near Burnham Trading Post, NM	09367934	7.2	1978-82
Burnham Wash near Burnham, NM	09367936	8.6	1978-82
Chaco River near Burnham, NM	09367938	3,640	1978-82
LITTLE COLORADO RIVER BASIN			
Largo Creek near Mangas, NM	09386050	63	1959-66
Zuni River at Black Rock, NM	09387000	828	1910-30
Zuni River at New Mexico-Arizona State line	09387300	1,314	1985-87, 1987-89

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS -- Continued

Station name	Station number	Drainage area (mi ²)	Period of record
LITTLE COLORADO RIVER BASIN			
Puerco River near Church Rock, NM	09395350	193	1978-82, 1989-91
Puerco River at Gallup, NM	09395500*	558	1940-46, 1977-82
Puerco River near Manuelito, NM	09395630	990	1989-93
Whitewater Arroyo near Cheechilgeetho, NM	09395700	78.5	1964-67
GILA RIVER BASIN			
Gila River near Silver City, NM	09430000	1,600	1912-19
Sapello Creek below Lake Roberts, near Silver City, NM	09430150	78	1964-71
Gila River near Cliff, NM	09431000	2,435	1942-51
Trout Creek near Luna, NM	09442653	27.1	1968-86
San Francisco River near Alma, NM	09443000	1,546	1904-07, 1909-10, 1912-14, 1964-86
Whitewater Creek near Mogollon, NM	09443500	34	1909-23

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

The following stations were discontinued as continuous-record surface-water-quality stations prior to the 1990 water year. Records of (c) chemical, (m) microbiological, (s) sediment, or (t) daily water temperature were collected and published for the record shown for each station.

An inventory of chemical data analyzed prior to 1962 can be found in U.S. Geological Survey Water-Supply Paper 1786, "Inventory of Published and Unpublished Chemical Analyses of Surface Water in the Continental United States and Puerto Rico, 1961."

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record
Dry Cimarron River near Guy, NM	07153500	545	c,s,t	1964-74
Canadian River near Hebron, NM	07199000	229	c	1966-81
Chicorica Creek near Yankee, NM	07199600	32.5		1975-79
Una de Gato Creek below Throttle Dam near Raton, NM	07201420	49.5	c,s	1975-84
Chicorica Creek near Hebron, NM	07202000	381	c	1975-81
Vermejo River near Dawson, NM	07203000	301	c,s	1964-84
Cimarron River below Eagle Nest Dam, NM	07206000	167	c,s	1975-84
Canadian River near Taylor Springs, NM	07211500	2,850	b,c,s	1966-75
Conchas Canal below Conchas Dam, NM	07223300	--	c	1964-77
Canadian River at Logan, NM	07227000		c,t	1962-63
Plaza Largo canal below Barranca Creek near Tucumcari, NM	07227073	602	c	1965-66
Revuelto Creek below Plaza Largo Creek near Tucumcari, NM	07227080	672	c	1965-66
Canadian River near Glenrio, NM	07227125	--	c,s,t	1965-66
Canadian River above New Mexico-Texas State Line	07227140	12,616	b,c,s	1969-73; 1975-86
Rio Grande above Culebra Creek near Lobatos, CO	08249200		b,c,t	1962-69
Costilla Creek near Costilla, NM	08255500	195	c,s	1966-76
Rio Grande near Cerro, NM	08263500	8,440	c,m,s	1977; 1979-87
Rio Grande above Red River near Cerro, NM	08263510	--	c,m,s	1979-81
Red River near Red River, NM	08264000	19.1	s	1963
Red River below Zwergle Damsite near Red River, NM	08264500	28.9	c,m,s	1962-65; 1979-82
Red River at Molycorp Mine near Red River, NM	08264970	78.3	c,m,s	1979-82
Red River near Questa, NM	08265000	113	c,m,s	1979-87
Cabresto Creek near Questa, NM	08266000	36.7	c,m,s	1979-82
Red River below Questa, NM	08266500	160	c,m,s	1979-87
Red River above State Fish Hatchery near Questa, NM	08266790	175	c,m,s	1979-87
Red River at Fish Hatchery near Questa, NM	08266800	185	c,k,s,t	1966-77
Red River below Fish Hatchery, near Questa, NM	08266820	185	c,m,s	1978-87
Red River at mouth, near Questa, NM	08267000	190	c,m,s	1966-68; 1979-85
Rio Grande above Rio Hondo at Dunn Bridge, NM	08267400	8,690	c,m,s	1979-87
Rio Hondo at Damsite at Valdez, NM	08268200	40.3	s	1962-65
Arroyo Hondo at Arroyo Hondo, NM	08268500	65.6	c,m,s	1979-82
Rio Grande del Rancho near Talpa, NM	08275500	83	s	1962-65
Rio Grande above San Juan Pueblo, NM	08281100	10,550	c,m,s	1987-88
Willow Creek above Azotea Creek near Park View, NM	08284150	42	c,s	1973
Azotea Tunnel at Outlet near Chama, NM	08284160	--	c,s	1974-75
Willow Creek above Heron Reservoir near Park View, NM	08284200	112	c,s	1973-74
Horse Lake Creek above Heron Reservoir near Los Ojos, NM	08284300	45	c,s	1973
Willow Creek near Park View, NM	08284500	193	c,s	1962-65
Rio Chama below Heron Dam, NM	08284540	--	c,s	1973-74

DISCONTINUED SURFACE-WATER-QUALITY STATIONS -- Continued

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record
El Vado Reservoir near Tierra Amarilla, NM	08287000	873		1973
Rio Chama Seep below El Vado Dam, NM	08285100	873	c	1973-74
Rio Chama below El Vado Dam, NM	08285500	877	c,s	1974
Rio Chama above Abiquiu Reservoir, NM	08286500	1,600	c,k,s,t	1963-85
Rio Chama below Abiquiu Dam, NM	08287000	2,147	c,k,s,t	1963-85
Rio Ojo Caliente at La Madera, NM	08289000	419	c	1976-77
Rio Nambe at Nambe Falls, near Nambe, NM	08294300	25.1	s	1962-65
Rito de los Frijoles in Bandelier National Monument, NM	08313350	18.1	b,c,m,s,t	1977-82
Rio Grande below Cochiti Dam, NM	08317400	14,900	c,s,t	1974-84; 1985-88
Galisteo Creek below Galisteo Dam, NM	08317950	597	c,k,s,t	1971-78
Galisteo Creek at Domingo, NM	08318000	640	c,s,t	1962-71
Jemez River below East Fork near Jemez Springs, NM	08321500	173	c,s	1963-67
Jemez River below Jemez Canyon Dam, NM	08329000	1,038	c,s	1966-88
Piedra Lisa Arroyo near Bernalillo, NM	08329100	4.1	c,s	1962-74
Rio Grande near Bernalillo, NM	08329500	17,300	c,s,t	1962-69
Tijeras Arroyo near Albuquerque, NM	08330600	133	c	1979
Rio Grande Conveyance Channel near Bernardo, NM	08331990	--	c,k,s,t	1962-75
Rio Grande near Bernardo, NM	08332000	19,230	c,s,t	1962-64
Bernardo Interior Drain near Bernardo, NM	08332050	--	c,s,t	1965-68
San Pablo Creek near Cuba, NM	08332700	12.8	c,s	1982
Papers Wash near Star Lake Trading Post, NM	08334300		c,m,s	1978-82
Arroyo Chico near Guadalupe, NM	08340500	1,390	c,s	1978-86
Bluewater Lake near Bluewater, NM	08341400	201	c	1966-69
Rio San Jose at Grants, NM	08343000	1,020	c,s	1980
Rio Salado near San Acacia, NM	08354000	1,380	c,s	1962-84
Socorro Main Canal North at San Acacia, NM	08354500	--	s	1985
Rio Grande below Elephant Butte Dam, NM	08361000	29,450		1975-82
Rio Grande below Caballo Dam, NM	08362500	30,700	c	1966-68
Rio Grande at Leasburg Dam, NM	08363500		b,c,m	1975-79
Tortugas Arroyo at Las Cruces, NM	08363700	20.7	c,s	1963-74
Rio Grande at Vinton Bridge near Anthony, TX	08363840	28,680	b,c,m,s	1975-78
Pecos River near Pecos, NM	08378500	189	c	1970-73
Pecos River near Anton Chico, NM	08379500	1,050	b,c,m,s	1967-77
Gallinas Creek near Montezuma, NM	08380500	84	c	1964-67
Pecos River below Summer Dam, NM	08384500	4,390	b,c,m,s,t	1962-66; 1972-87
Rio Hondo at Diamond A Ranch near Roswell, NM	08390500	947	c,s	1962
Hagerman Canal at Dexter, NM	08393800	--	c	1964-67
Rio Penasco at Dayton, NM	08398500	1,060	s	1962-72
Pecos River (Kaiser Channel) near Lakewood, NM	08399500		c	1968-70; 1978-79
Lake McMillan near Lakewood, NM	08400500	16,990	c	1962-67; 1978-79
Pecos River below McMillan Dam, NM	08401000	16,990	c	1962-66; 1978-79
Pecos River at Ford Crossing above Major Johnson Springs, NM	08401300	16,990	c	1962-67
Pecos River at Damsite 3 near Carlsbad, NM	08402000	17,980	c,t	1962-67

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record
Pecos River at Carlsbad, NM	08405000	18,100	c,k,t	1962-87
Pecos River below Sixmile Dam near Carlsbad, NM	08405260	18,650	b,c,m,s	1975-77
Black River at Harkey Crossing near Malaga, NM	08405400	343	c	1947-66
Pecos River below Red Bluff Dam, near Orla, TX	08410100		c,t	1962-63
Mimbres River at McKnight Damsite near Mimbres, NM	08476300	97.3	c,s	1967-72
Mimbres River at Mimbres, NM	08477110	184	b,c,m,s	1978-86
Rio Blanco near Pagosa Springs, CO	09343000	58	s	1962-65
Rio Blanco at U.S. Highway 84 near Pagosa Springs, NM	09343400	--	c,s	1972-74
Navajo River above Chromo, CO	09344300	96.4	s	1962-65
Navajo River below Oso Diversion Dam near Chromo, CO	09344450	--	c,s	1972-75
Navajo River at Edith, CO	09346000	172	b,c,s	1969-74
San Juan River near Carracas, CO	09346400	1,230	b,c,s	1969-73
Piedra River near Arboles, CO	09349800	629	b,c,s	1969-73
Los Pinos River at La Boca, CO	09354500	510	b,c,s	1969-73
Canon Largo near Blanco, NM	09356565	1,700	c,m,s	1978-81
San Juan River at Bloomfield, NM	09357000	5,410	s,t	1962-64
San Juan River at Hammond Bridge near Bloomfield, NM	09357100	5,540	b,c,m,s	1978-81
Gallegos Canyon near Farmington, NM	09357250	290	c,m,s	1978-81
San Juan River above Animas River at Farmington, NM	09357300	5,800	c	1966-79
San Juan River at Farmington, NM	09365000	7,240	c,s,t	1962-82
La Plata River at Colorado-New Mexico State line	09366500	331	b,c,m,s	1970-73
La Plata River near Farmington, NM	09367500	583	c,s	1970-73, 1978-81
Shumway Arroyo near Fruitland, NM	09367555	62.8	b,c,m,s	1976; 1978-82
Shumway Arroyo near Waterflow, NM	09367561	73.8	b,c,m,s	1974-84; 1986
Chaco Wash near Star Lake Trading Post, NM	09367660	59	c,s	1978-82
Chaco Wash at East Boundary at Chaco Canyon National Monument, NM	09367676	364	c,s	1981-82
Fajada Wash at Chaco Canyon National Monument, NM	09367678	199	c,s	1981-84
Chaco Wash at Chaco Canyon National Monument, NM	09367680	578	c,s	1976-84
Gallo Wash at Chaco Canyon National Monument, NM	09367682	36.2	c,s	1979
Chaco Wash near PB at bridge at Chaco Canyon National Monument, NM	09367683	619	c,s	1981-84
Ah-shi-sle-pah Wash near Kimbeto, NM	09367685	8.21	c,s	1977-83
Kim-me-ni-oli Wash near Crownpoint, NM	09367687	228	b,c,s	1981-83
Kim-me-ni-oli Wash near Lake Valley, NM	09367689	400	b,c,s	1981-83
De-na-zin Wash near Bisti Trading Post, NM	09367710	184	c,s	1975-82
Black Springs Wash near Mexican Springs, NM	09367900	7.05	c,s	1981-82
Hunter Wash at Bisti Trading Post, NM	09367930	45.6	c,s	1975-82
Teec-ni-di-tso Wash near Burnham, NM	09367934	7.2	c,m,s,t	1978-82
Burnham Wash near Burnham, NM	09367936	8.6	c,m,s,t	1978-82
Chaco River near Burnham, NM	09367938	3,640	c,m,s,t	1978-82
Chaco River near Waterflow, NM	09367950	4,350	c,s	1976-89
San Juan River near Bluff, UT	09379500	23,000	c,s,t	1962-68
Puerco River near Church Rock, NM	09395350	193	c,s	1979

DISCONTINUED SURFACE-WATER-QUALITY STATIONS -- Continued

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record
Foster Canyon near Continental Divide, NM	09395381	16.8	c	1988
Puerco River at Gallup, NM	09395500	558	c,k,s,t	1975-77; 1979-84
Puerco River near Manuelito, NM	09395630	990	c,s	1989-93
Gila River near Gila, NM	09430500	1,864	c,s,t	1963-67
Mangas Creek below Mangas Springs, NM	09431100		c,m,s	1970-86
Sunset Canal above New Mexico-Arizona State line	09433500	--	b,c,s	1969-72
New Model Canal above New Mexico-Arizona State line	09436500	--	b,c,s	1969-72
Gila River at New Mexico-Arizona State line	09438000	3,349	b,c,s	1968-73
San Francisco River near Glenwood, NM	09444000	1,653	b,c,s	1963-85
San Francisco River at Clifton, AZ	09445000	2,766	s	1963-67
Dry Beaver Creek near Rimrock, AZ	09505350	139	s	1964-65

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with Federal, State, and local agencies, obtains a large quantity of data pertaining to the water resources of New Mexico each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, the data are published annually in this report series entitled "Water Resources Data - New Mexico."

Water-resources data for the current year for New Mexico consist of records of discharge and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 184 gaging stations and contents for 26 lakes and reservoirs; water quality for 51 gaging stations, 72 wells, and 84 partial-record stations and miscellaneous sites, and water levels at 132 observation wells. Also included are 109 crest-stage, partial-record stations. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous measurements. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating Federal, State, and local agencies in New Mexico.

Data on stream discharge and stage, and on lake or reservoir contents and stage were first published in a series of U.S. Geological Survey Water-Supply Papers entitled "Surface Water Supply of the United States." Through September 30, 1960, these Water-Supply Papers were in an annual series, then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperature, and suspended sediment were published from 1941 to 1970 in an annual series of Water-Supply Papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of Water-Supply Papers entitled "Ground-Water Levels in the United States." Water-Supply Papers generally are available in the libraries of the principal cities of the United States or may be purchased from U.S. Geological Survey, Books and Open-File Reports, Federal Center, Box 25425, Denver, Colorado 80225.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports for each State. Water-quality records for water years 1964 through 1974 were similarly released in separate reports. Beginning with water year 1975, data for streamflow, water quality, and ground water were combined in reports published annually for each State. These reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report NM-93-1." These Water-Data Reports are for sale by the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22162.

COOPERATION

The U.S. Geological Survey and State and local agencies have had joint-funding agreements for the collection of streamflow records since 1930 and for water-quality records since 1940. Organizations that assisted in collecting the data in this report through joint-funding agreements with the Survey are:

New Mexico State Engineer Office, T.C. Turney, State Engineer.
 New Mexico Interstate Stream Commission, T.C. Turney, Secretary.
 Pecos River Commission, W.E. Hale, Federal representative and Chairman;
 Louis Whitlock, Commissioner for New Mexico;
 Brad Newton, Commissioner for Texas.
 New Mexico State Highway and Transportation Department, Pete K. Rahn, Secretary.
 Canadian River Municipal Water Authority, John C. Williams, General Manager.
 Costilla Creek Compact Commission, T.C. Turney, Commissioner for New Mexico;
 Hal Simpson, Commissioner for Colorado.
 Albuquerque Metropolitan Arroyo Flood Control Authority, L.A. Blair,
 Executive Engineer.
 City of Albuquerque, Martin Chavez, Mayor.
 Rio San Jose Flood Control District, Alex Gonzales, Chairman.
 City of Santa Rosa, Joe Trujillo Jr., Mayor.
 City of Raton, Joe Apache, Mayor.
 Village of Ruidoso, Gary M. Jackson, Manager.

Financial assistance for the collection of water-resources data published in this report was provided by the Corps of Engineers, U.S. Army, for 25 gaging stations; by the Bureau of Reclamation, U.S. Department of Interior, for 7 gaging stations; by the Bureau of Indian Affairs, U.S. Department of Interior, for 16 gaging stations; and by the Bureau of Land Management, U.S. Department of Interior, for 2 gaging stations.

Assistance in the form of services was provided by the Carlsbad Irrigation District.

Some data have been collected by contractors in accordance with U.S. Geological Survey specifications and under Geological Survey quality control. Organizations that provided data are recognized in the station description.

WATER RESOURCES DATA FOR NEW MEXICO, WATER YEAR 1994
SUMMARY OF HYDROLOGIC CONDITIONS

Streamflow

Perennial streams in New Mexico generally are in mountainous regions in the north-central, south-central, and southwestern parts of the State. Other perennial streams include the San Juan and Animas Rivers in northwestern New Mexico, which originate in the San Juan Mountains of southwestern Colorado. When flow is not regulated by releases from dams, several reaches of the Pecos River south of Santa Rosa have perennial flow that is maintained by relatively large spring runoff. Large discharges in perennial streams normally are the result of spring snowmelt in the mountains, which may last several months.

Ephemeral streams are present in the remainder of the State. Some of these streams, such as the Rio Puerco, have deeply incised channels, whereas others, especially those on the eastern plains, are swale without any well-defined channel. Large discharges in ephemeral streams generally are caused by intense, short-duration thunderstorms (normally occurring from mid-June to mid-October); the runoff usually lasts for only a few hours.

Hydrologic conditions at the beginning of water year 1994 were benign in nature. Precipitation totals were at or below normal in all parts of the State in October. Likewise, streamflows recorded at various index sites at the end of September ranged from slightly above normal to slightly below normal. This trend continued through the Fall. Specifically, precipitation amounts recorded for November were .54 inch above normal at Albuquerque, at normal at Farmington, and .19 and .13 below normal at Las Cruces and Deming respectively. Reservoir storage during the period of November through September reflected the absence of extreme hydrologic conditions. For example, storage of water at Heron Reservoir held at a steady 97 percent of capacity during the period of September through November. The same trend held for Elephant Butte, Caballo, Navajo, Ute, and Santa Rosa reservoirs. By January, snowpack surveys reported conditions across New Mexico ranged from below average to near average. Predictions of subsequent streamflows ranged from slightly above normal to well below normal. The trend of near normal precipitation continued through February. By March, precipitation in central and southwest New Mexico had increased to well above normal. This was reflected in an increase in the storage of water in Elephant Butte and Caballo Reservoirs to 100 percent of capacity. Above normal precipitation continued in many areas of the State through May before returning to near or below normal in June. By April snowpack surveys generally reported continued normal to below normal amounts of snowpack, except in the Canadian River basin where snowpack was 158 percent of normal. Entering the Summer period in June and continuing through July, precipitation continued near normal. This was reflected in a decrease of water storage in Elephant Butte and Caballo Reservoirs to 87 percent of capacity by the end of August. However, at the end of the water year 1994, in September, recorded precipitation increased to well above normal in several areas of the state, specifically, Clayton, Chama, Santa Fe, and Gallup. The precipitation for all of water year 1994 in New Mexico was generally near normal to slightly below normal.

Streamflow in New Mexico has been near normal or greater than normal since 1979. Above normal streamflows in evidence at the end of water year 1993 continued through October and then decreased to near normal levels by the end of November. Statewide streamflow index stations generally recorded near normal flows through the end of June with one exception. The exception was the Pecos River where recorded discharges were 102, 150, 140, 202, and 205 percent of normal for the period of February through June. After June all index stations reported less-than-normal discharges. Specifically, discharges recorded in July on the Pecos (station 08378500), Delaware (station 08408500), Rio Grande (station 08276500), and Gila (station 09430500) Rivers were 94, 13, 84, and 44 percent of normal respectively. Streamflows continued at near or below normal levels for the balance of water year 1994.

Discharges for water year 1994 at four index streamflow-gaging stations compared with median annual discharge for water years 1962-93 at the same stations are listed below:

Station number	Station name	Median annual discharge in acre-ft	Annual mean discharge in acre-ft	1994 discharge as a percentage of median
		water years 1962-93	water year 1994	
08276500	Rio Grande below Taos Junction Bridge	517,900	642,600	124
08378500	Pecos River near Pecos	74,480	90,420	121
08408500	Delaware River near Red Bluff	4,690	1,380	29
09430500	Gila River near Gila	120,400	54,840	46

Reservoir storage of the State's surface waters at the beginning of water year 1994 ranged from near to less-than-normal to significantly less-than-normal levels. Most of the index reservoirs measured during the year maintained consistent storage levels. Exceptions to the trend were at Brantley Reservoir and Sumner-Santa Rosa reservoirs. Beginning in October storage at Brantley was 19 percent of capacity. This decreased quickly to two percent of capacity for the balance of the water year. Sumner-Santa Rosa reservoirs displayed a similar trend. In October storage at these reservoirs was at 43 percent of capacity. The storage end decreased rapidly to 21 percent of capacity and ranged from 19 to 27 percent of capacity for the balance of the year.

The combined storage of 13 major reservoirs in the State decreased by 301,000 acre-feet during water year 1994 totaling 4,791,000 acre-feet by September 30, 1994. The total combined capacity of these 13 reservoirs is 8,530,000 acre-feet.

Surface-Water Quality

Specific conductance in water at selected streamflow-gaging stations were near normal throughout the State during the water year. Median values of specific conductance for water year 1994 at selected daily stations and median values of specific conductance for water years 1984-93 at the same stations are listed below:

Station number	Station name	Median specific conductance, in microsiemens per centimeter at 25 °Celsius		1994 median as a percentage of 1984-93 median
		water years 1984-93	water year 1994	
08313000	Rio Grande at Otowi Bridge	321	307	96
08330000	Rio Grande at Albuquerque	395	342	87
08354900	Rio Grande FW at San Acacia	602	534	89
08358400	Rio Grande FW at San Marcial	539	492	91

Suspended-sediment loads for water year 1994 at three index stations and median suspended-sediment loads for water years 1984-93 at the same stations are listed below:

Station number	Station name	Median suspended-sediment load, in tons		1994 load as a percentage of 1984-93 median
		water years 1984-93	water year 1994	
08313000	Rio Grande at Otowi	1,445,400	2,825,556	195
08330000	Rio Grande at Albuquerque	397,850	3,380,509	849
08358400	Rio Grande Floodway at San Marcial	2,273,950	3,987,672	174

Ground-Water Levels

Ground-water levels are measured periodically in a network of about 6,000 observation wells in order to record changes in ground-water storage. Water levels in about 1,200 wells are measured annually and the remaining 4,800 wells are scheduled for measurement at 5-year intervals, so that wells in different areas are measured each year (fig. 1). The areas of water-level measurements are in eight of the nine major surface-water drainage basins; most are in areas where ground water is used in large quantities for irrigation, municipal, or industrial purposes. Twenty-two selected wells in various parts of the State are equipped with continuous water-level recorders.

Hydrographs of water levels in wells (fig. 2) in the four quadrants of the State illustrate the water-level trends for the last 20 years. A decrease in ground-water withdrawals for agriculture and mining operations may be responsible for the general rise in water levels in the well in Cibola County since 1979. The decrease in the water level in the Cibola County well since last year may be a result of recent withdrawals for industrial use. The wells in Luna, Union, and Chaves Counties are in areas of intensive irrigation. The water level in the Luna County well (Mimbres Valley) decreased from water year 1991, but continued to be higher than average for the past 20 years. The water level in the well in Union County continued to decline, which is typical of wells on the High Plains of northeastern New Mexico. The water level in the recorder well in Chaves County has yearly fluctuations that are typical of water levels in wells in the Roswell artesian basin. The water levels in the vicinity of this well have also risen since the mid-1970's, probably resulting from both a decrease in withdrawals for irrigation and an increase in recharge to the aquifer.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network includes 57 sites in small drainage basins around the country whose purpose is to provide hydrologic and water-quality data for basins in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins that have been developed, and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin. Included in this program are stations 08377900, Rio Mora near Terrero; and 09430600, Mogollon Creek near Cliff.

National Stream-Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in national or regional water-quality planning and management. The 286 sites currently in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the USGS Office of Water Data Coordination in consultation with the Water Resources Council. The NASQAN program originally was designed for 525 measuring and sampling stations; however, the peak number of stations in operation nationally was 518 during 1979. Since 1979, many NASQAN stations have been discontinued because of funding limitations. The NASQAN program after the 1995 water year will be redesigned to cover only about 80 critical locations within the Nation's large river basins that will provide data for ongoing water-quality evaluation including mass transfer information for water discharging from the continental United States. The objectives of NASQAN are: (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used; (2) to describe the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs; (3) to detect changes or trends with time in the pattern of occurrence of water-quality characteristics; and (4) to provide a nationally consistent data base useful for water-quality assessment and hydrologic research. Included in this network for this water year are stations 08313000, Rio Grande at Otowi Bridge, near San Ildefonso; 08358300, Rio Grande Conveyance Channel at San Marcial; 08358400, Rio Grande Floodway at San Marcial; 08364000, Rio Grande at El Paso, TX; 08370500, Pecos River near Red Bluff; 09368000, San Juan River at Shiprock; and 09431500, Gila River near Redrock.

National Water-Quality Assessment Program (NAWQA) is a nationwide program that began full-scale implementation by the U.S. Geological Survey in 1991. The long term goals of the NAWQA program are to describe the status and trends in the quality of a large, representative part of the Nation's surface-water, and ground-water resources and to provide a sound, scientific understanding of the primary natural and human factors affecting the quality of these resources. The principle building blocks of the NAWQA program are the study-unit investigations on which national-level assessments are based. Study unit-investigations are comprehensive and include information on water, sediment, biota, and aquatic and terrestrial habitats within its boundaries. Of the 60 study unit-investigations that comprise the NAWQA program a major part of one, the Rio Grande Valley NAWQA, is located in New Mexico. Water-quality data collected at selected surface-water monitoring sites of the Rio Grande Valley NAWQA are published in this report.

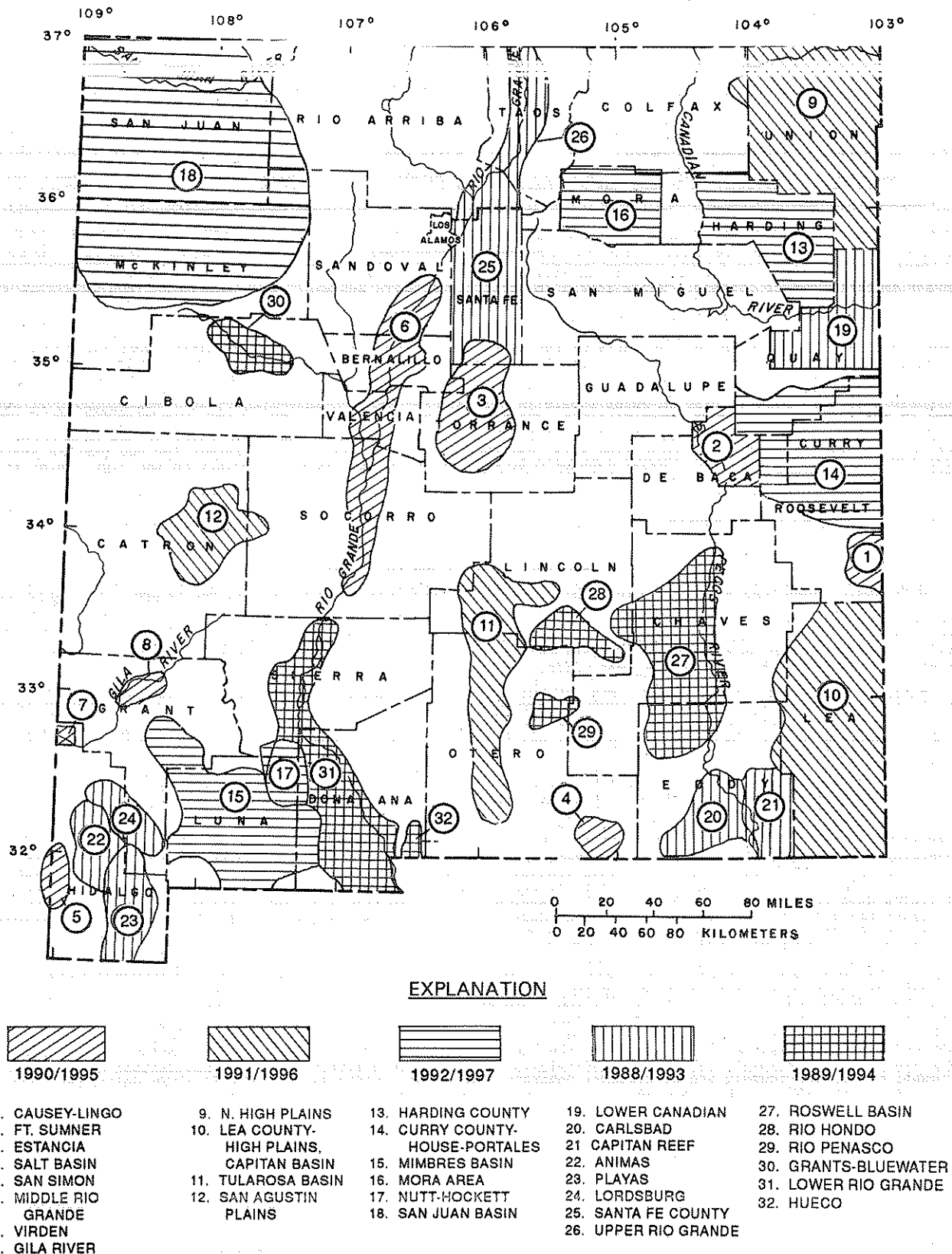


Figure 1.--Areas of 5-year ground-water-level monitoring and years measured or scheduled for measurement.

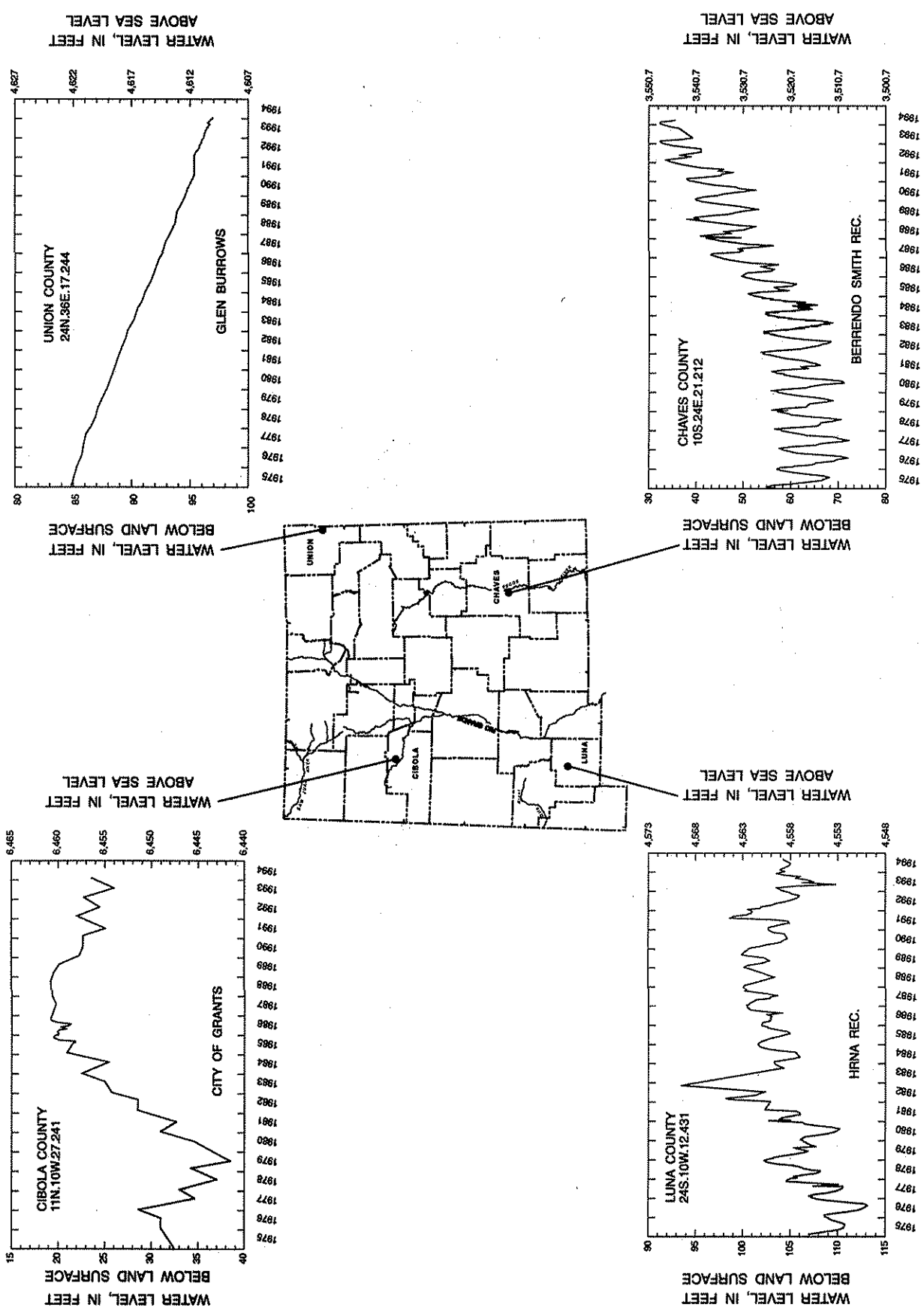


Figure 2.--Ground-water-level trends for the last 20 years or period of record.

WATER RESOURCES DATA FOR NEW MEXICO, WATER YEAR 1994

Surveillance network stations are surface-water stations selected for water-quality examinations for water-quality control purposes. These stations are usually located at key regulatory streamflow-gaging stations. Data for major inorganic constituents, nutrients, dissolved oxygen, suspended sediment, and bacteria are collected at all these stations. Data for and trace radiochemicals, and pesticides are collected at some of these stations. Included in this network are stations 07221000, Canadian River near Sanchez; 06270000, Rio Grande below Las Junction Bridges near Taos; 08313000, Rio Grande at Shovel Bridge near San Ildefonso; 08313000, Rio Grande at San Felipe; 06331000, Rio Grande at Isleta; 06334500, Rio Grande Conveyance Channel at San Acacia; 06334900, Rio Grande Floodway at San Acacia; 08358300, Rio Grande Conveyance Channel at San Marcial; 08358400, Rio Grande Floodway at San Marcial; 08383500, Pecos River near Puerto de Luna; 08386000, Pecos River near Acme; 08396500, Pecos River near Artesia; and 09368000, San Juan River at Shiprock.

Tritium network is a network of stations that has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States. Included in the tritium network for New Mexico is a precipitation station that is located 1206 Field Drive NE, Albuquerque NM (Lat. 35°05'35", long 106°32'40").

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1992 water year, which began October 1, 1991, and ended September 30, 1992. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water-level data. The locations of the stations and wells where the data were collected are shown in figures 5 and 6. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether stream site or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream-order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells and for surface-water stations where only miscellaneous measurements are made.

Downstream-Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indentation on a list of stations in the front of this report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station, such as 08313000, which appears just to the left of the station name, includes the two-digit part number "08" plus the six-digit downstream-order number "313000." The part number designates the major river basin. Records in this report are in Part 07 (Lower Mississippi River Basin), Part 08 (Western Gulf of Mexico Basin), and Part 09 (Colorado River Basin).

Latitude-Longitude System

The identification numbers for wells, springs, and miscellaneous sites are assigned according to the grid system of latitude and longitude. The system provides the geographic location of the well, spring, or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 3 below.

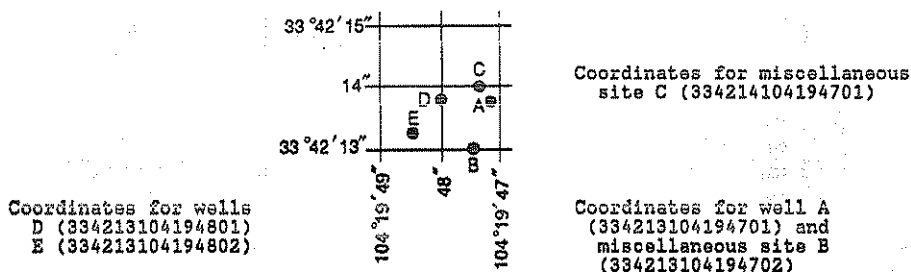


Figure 3.--System for numbering wells, springs, and miscellaneous sites.

Local Well Numbers

To provide an additional means of identification and a cross reference to records in older reports, most wells and springs have been assigned a local identifier based on the system of public land surveys. In areas covered by such surveys, the local identifier consists of a series of numbers and letters separated by periods, giving the township, range, section, and tract within a section, in that order. The letters N or S locate the township north or south of the New Mexico base line. The letters E or W locate the range east or west of the New Mexico principal meridian. A zero in a tract number indicates that the well or spring is centrally positioned or has not been located accurately enough to be placed within a tract or quarter section. Three digits in a tract number will locate a well or spring to the nearest 10-acre tract, and six digits will locate a site to the nearest 0.16-acre tract. This numbering system is illustrated in WDR NM-75-1 and WSP 1855. On the Navajo Reservation, where public land surveys have not been made, the local identifier is based on a different system of letters and numbers. In the example NR032.0156x0736, the first two letters indicate that the well is on the Navajo Reservation. The three-digit number to the left of the decimal indicates one of a series of special quadrangle maps on which the well is located. The two numbers to the right of the decimal separated by the letter x are the coordinates of the well in hundredths of a mile from the northeast corner of the area on the map. The first coordinate indicates the distance west; the second the distance south. The above well is located on map 032, 1.56 miles west and 7.36 miles south of the northeast corner.

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by the table title "Crest-stage partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Location of all partial-record stations for which data are given in this report is shown in figure 7.

Data Collection and Computation

The data obtained at a complete-record gaging station consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Continuous records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations, or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using methods adapted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If it is necessary to define extremes of discharge outside the range of the current meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by the personnel making the measurements are applied to the gage heights before discharges are determined from the curves or tables. This shifting-control method is also used if the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control. At some northern stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes of observations, and comparable records of discharge for other stations in the same or nearby basins for comparable periods of time.

In computing records of lake or reservoir contents, it is necessary to have curves or tables available from surveys. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes in contents are determined.

If the stage-capacity curve changes because of deposition of sediment in a lake or reservoir, periodic resurveys of the reservoir may be necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, prior and subsequent records, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data presentation" (REMARKS paragraph) and "Identifying estimated daily discharge."

Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in data reports prior to the 1991 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

WATER RESOURCES DATA FOR NEW MEXICO, WATER YEAR 1994

The records published for each gaging station consist of two parts: the manuscript or station description and the data table for the current water year. The manuscript provides, under various headings, descriptive information, such as station location; period of record; average discharge; historical extremes; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge of lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River mileage measurement," Bulletin 14, revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record are identified by date in this paragraph of the station description for water-discharge records. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station, and possibly to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

AVERAGE DISCHARGE.--The discharge value given is the arithmetic mean of the water-year mean discharges. It is computed only for stations having at least 5 water years of complete record, and only water years of complete record are included in the computation. It is not computed for stations where diversions, storage, or other water-use practices cause the value to be meaningless. If water developments significantly altering flow at a station are put into use after the station has been in operation for a period of years, a new average is computed as soon as 5 water years of record have accumulated following the development.

EXTREMES FOR PERIOD OF RECORD.--Extremes may include maximum and minimum stages and maximum and minimum discharges or content. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage gage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

EXTREMES FOR CURRENT YEAR.--Extremes given here are similar to those for the period of record, except the peak discharge listing may include secondary peaks. For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears below the table of peak data.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or possibly future station manuscript published to document the revision in a "Revised records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District office to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream locations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

Data table of daily mean values

The daily table of discharge records for streamgaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed "TOTAL" gives the sum of the daily figures for each month; the line headed "MEAN" gives the average flow in cubic feet per second for the month; and the lines headed "MAX" and "MIN" give the maximum and minimum daily mean discharges, respectively for each month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"); or in inches (line headed "IN"); or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. At some stations, monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS _____, BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "WATER YEARS _____," will consist of all of the station record within the specified water year, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (See line headings below,) except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The data or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations, the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet or about 328,000 gallons or 1,233 cubic meters.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicates the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.--The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.--The discharge that has been exceeded 90 percent of the time for the designated period.

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Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from ~~indefinite stage relations or any other unusual conditions at the gage site are indicated only~~ if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs, the data presented comprise a description of the station and a table showing daily contents or stage. For some reservoirs a monthly summary table of stage and contents is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given, or if daily stage is published.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations (miscellaneous sites). Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of measurements of stage, measurements of discharge, and interpretations of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true value; "good" within 10 percent; and "fair" within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values of less than 1 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to three significant figures above 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or other factors. For such stations, figures of cubic feet per second per square mile and of runoff, in inches, are not published unless satisfactory adjustments can be made. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations, such as observations of water temperatures, discharge measurements, gage-height records, and rating tables, is on file in the District office. Most gaging-station records are also available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the District office.

Records of Surface-Water Quality

Surface-water quality samples usually are collected at or near gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing- or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records of surface-water quality appear in this report are shown in figure 6.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. All of these references appear on the list of publications following this section. Detailed information on collecting, treating, and shipping samples may also be obtained from the Geological Survey District office.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream-Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors that must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the District office whose address is given on the back of the title page of this report.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have small diurnal temperature changes; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the District office.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may be collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration are computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day has been computed by the subdivided-day method. For periods when no samples are collected, daily discharges of suspended sediment are estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Laboratory Measurements

Historical and current (1992) dissolved trace-element concentrations are reported herein for water that was collected, processed, and analyzed by using either ultraclean or other than ultraclean techniques. If ultraclean techniques were used, then those concentrations are reported in nanograms per liter. If other than ultraclean techniques were used, then those concentrations are reported in micrograms per liter and could reflect contamination introduced during some phase of the procedure.

Microbiological data on coliform and streptococcal bacteria appear in this report. Methods for the collection and analysis of aquatic biological and aquatic microbiological samples are described by Slack and others (1973). (See reference.)

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the Geological Survey laboratory in Arvada, Colorado. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the Geological Survey laboratories are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

WATER RESOURCES DATA FOR NEW MEXICO, WATER YEAR 1994

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily, are presented first. Tables of daily values of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge-gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See "Data presentation" under "Records of stage and water discharge"; same comments apply.

DRAINAGE AREA.--See "Data presentation" under "Records of stage and water discharge"; same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor, temperature recorder, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and the current year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to ensure the most recent updates.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remark codes may appear with the water-quality data in this report:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
e	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted)
D	Biological organism count equal to or greater than 15 percent (dominant)
&	Biological organism estimated as dominant

Records of Ground-Water Levels

Only water-level data from a national network of observation wells are given in this report. These data are intended to provide a sampling and historical record of water-level changes in the Nation's most important aquifers. Locations of the observation wells in this network in New Mexico are shown in figure 8.

Data Collection and Computation

Measurements of water levels are made in many types of wells, under varying conditions of access and at different temperatures, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used are those that will ensure consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number, derived from the township-range location of the well.

Water-level records are obtained from direct measurements with a steel tape or from the graph or punched tape of a water-stage recorder. Water-level measurements in this report are given in feet with reference to either mean sea level (msl) or land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

INSTRUMENTATION.--This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on weekly, monthly, or some other frequency of measurement.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base, and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) National Geodetic Vertical Datum of 1929 (NGVD of 1929); it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum and all taped measurements of water level are listed. For wells equipped with recorders, only abbreviated tables are published; generally, only water-level lows are listed for every fifth day and at the end of the month (eom). The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the abbreviated table. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of the water level.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that for many sampling sites they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes only slowly; therefore, for most general purposes one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey Techniques of Water-Resources Investigations" manuals listed on a following page. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

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Data Presentation

The records of groundwater quality are published in a section "QUALITY OF GROUND WATER" immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by county, and are the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

Access to WATSTORE Data

The National Water-Data Storage and Retrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's District offices. (See address given on the back of the title page.)

General inquiries about WATSTORE may be directed to:

Chief Hydrologist, U.S. Geological Survey, MS 437, National Center Reston, Virginia 22092

Parameter Codes

The five-digit codes shown in parentheses in the column headings of the tables in this report are parameter codes that uniquely identify a specific constituent. These are standard codes used to identify the data stored in the files of WATSTORE. These codes are identical to those used in the U.S. Environmental Protection Agency (EPA) data system, STORET. The EPA assigns and approves all requests for new codes.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting English units to International System of Units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or 325,851 gallons or 1,233.49 cubic meters.

Adenosine triphosphate (ATP) is an organic, phosphate-rich compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause diseases, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C + or - 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C + or - 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, coccil bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35 °C + or - 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m³), and periphyton and benthic organisms in grams per square meter (g/m²).

Dry mass refers to the mass of residue present after drying in an oven at 105 °C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and the ash mass and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by the flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,445 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second per square mile [(ft³/s)/mi²] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT³/S, ft³/s, cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1 - March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

Discharge-weighted average: See Weighted average.

Dissolved refers to that material in a representative water sample which passes through a 0.45-um membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$d = - \sum_{i=1}^S \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and S is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate (CaCO_3).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground water observation well.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

MBAS qualifier MBAS determinations made from 1970 through August 29, 1993, at the National Water Quality Laboratory in Denver (Analyzing Agency Code 80020) are biased high. These data can be corrected based on the following equation if concentrations of nitrate plus nitrite, dissolved, as N, and dissolved chloride, determined concurrently with the MBAS data are available:

$$\text{MBASCOR} = M - [(0.0088)N + (0.00019)C] \quad \text{in which}$$

MBASCOR = corrected MBAS concentration, in mg/L,

M = reported MBAS concentration, in mg/L,

N = nitrate plus nitrite, dissolved, as N, concentration, in mg/L, and

C = dissolved chloride concentration, in mg/L.

The updated method reporting limit is 0.02 mg/L. The former reporting limit was 0.01 mg/L. A reporting limit of 0.02 mg/L should be applied to any corrected MBAS data from 1970 through August 29, 1993. The laboratory will automatically correct MBAS results after August 29, 1993.

Uncorrected MBAS data for New Mexico that were collected during the 1993 water year were corrected by applying the above equation. The water-quality data files were updated with the corrected values and retrieved for publication in the 1993 edition of the annual data report. The corrected values, if greater than the updated reporting limit of 0.02 mg/L were qualified as estimated values.

Micrograms per gram (ug/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element sorbed per unit mass (gram) of material analyzed.

Micrograms per liter (UG/L, ug/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of dry sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per unit area habitat, usually square meters (m^2), acres, or hectares. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
Clay.....	0.00024 - 0.004	Sedimentation
Silt.....	.004 - .062	Sedimentation
Sand.....	.062 - 2.0	Sedimentation or sieve
Gravel.....	2.0 - 64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population in terms of types, numbers, mass, or volume.

Periphyton are the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms.

Pesticides are chemical compounds used to control the growth of undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton are the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton are the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Zooplankton are the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [mg C/(m².time)] for periphyton and macrophytes and [mg C/(m³.time)] for phytoplankton are the units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg O/(m².time)] for periphyton and macrophytes and [mg O/(m³.time)] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses, because different digestion procedures are likely to produce different analytical results.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period was uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

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Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

as bed load in a given time.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is a general term referring to material in suspension. It is not synonymous with either discharge or concentration.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Total sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total sediment discharge.

Sodium-adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range, in respect to sodium hazard, from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Solution is the homogeneous mixture of solutes and water. The solutes usually comprise a very small fraction of the total weight of the mixture. For this reason, the terms "solution" and "water" are used interchangeably.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Natural substrate refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-um membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-um membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata, is the following:

Kingdom.....Animal
Phylum.....Arthropoda
Class.....Insecta
Order.....Ephemeroptera
Family.....Ephemeridae
Genus.....Hexagenia
Species.....Hexagenia limbata

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature, whether on a chart, tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY) is the quantity of substance in solution or suspension that passes a stream section during a 24-hour period.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined all of the constituent in the sample.) Total concentrations occasionally are reported as less than the corresponding dissolved concentrations for a chemical constituent due to decreased analytical sensitivity of the analytical methods used for the digested solutions. Digested solutions often contain higher concentrations of substances that interfere with analytical sensitivity through complex matrix effects.

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses, because different digestion procedures are likely to produce different analytical results. Total recoverable concentrations occasionally are reported as less than the corresponding dissolved concentrations for a chemical constituent due to decreased analytical sensitivity of the analytical methods used for the digested solutions. Digested solutions often contain higher concentrations of substances that interfere with analytical sensitivity through complex matrix effects.

Water year in Geological Survey reports dealing with surface water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1980 is called the "1980 water year."

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into chapters. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H.H. Stevens, Jr., J.F. Ficke, and G.F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. *Applications of surface geophysics to ground-water investigations*, by A.A.R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F.P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W.S. Keys and L.M. McCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W. Scott Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.
- 2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and Warren E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M.A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M.A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H.F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R.W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. *Measurement of time of travel in streams by dye tracing*, by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.
- 3-A10. *Discharge ratings at gaging stations*, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.
- 3-A11. *Measurement of discharge by moving-boat method*, by G.F. Smoot and C.E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-A12. *Fluorometric procedures for dye tracing*, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 41 pages.
- 3-A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. *Use of flumes in measuring discharge*, by F.A. Kilpatrick and V.R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.
- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

- 3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F.A. Kilpatrick, R.E. Rathburn, N. Yotsukura, G.W. Parker, and L.L. DeLong: USGS--TWRI Book 3, Chapter A18. 1989. 52 pages.
- 3-A19. *Levels of streamflow gaging stations*, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 27 pages.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R.W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programmed text for self-instruction*, by G.D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J.E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-B4. *Regression modeling of ground-water flow*, by Richard L. Cooley and Richard L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.
- 3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction*, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.
- 3-B6. *The principle of superposition and its application in ground-water hydraulics*, by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS--TWRI Book 3, Chapter B6. 1987. 28 pages.
- 3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow*, by E.J. Wexler: USGS--TWRI Book 3, Chapter B7. 1992. 90 pages.
- 3-C1. *Fluvial sediment concepts*, by H.P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H.P. Guy and V.W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. *Some statistical tools in hydrology*, by H.C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-B2. *Storage analyses for water supply*, by H.C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H.C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C.T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M.J. Fishman and L.C. Friedman: USGS--TWRI Book 5, Chapter A1. 1989. 545 pages.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P.R. Barnett and E.C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R.L. Wershaw, M. J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS--TWRI Book 5, Chapter A3. 1987. 80 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L.J. Britton and P.E. Greeson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L.C. Friedman and D.E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H.P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M.G. McDonald and A.W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.
- 6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model*, by S.A. Leake and D.E. Purdic: USGS--TWRI Book 6, Chapter A2. 1991. 368 pages.
- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L.F. Konikow and J.D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. *A model for simulation of flow in singular and interconnected channels*, by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
- 8-A1. *Methods of measuring water levels in deep wells*, by M.S. Garber and F.C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J.D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G.F. Smoot and C.E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

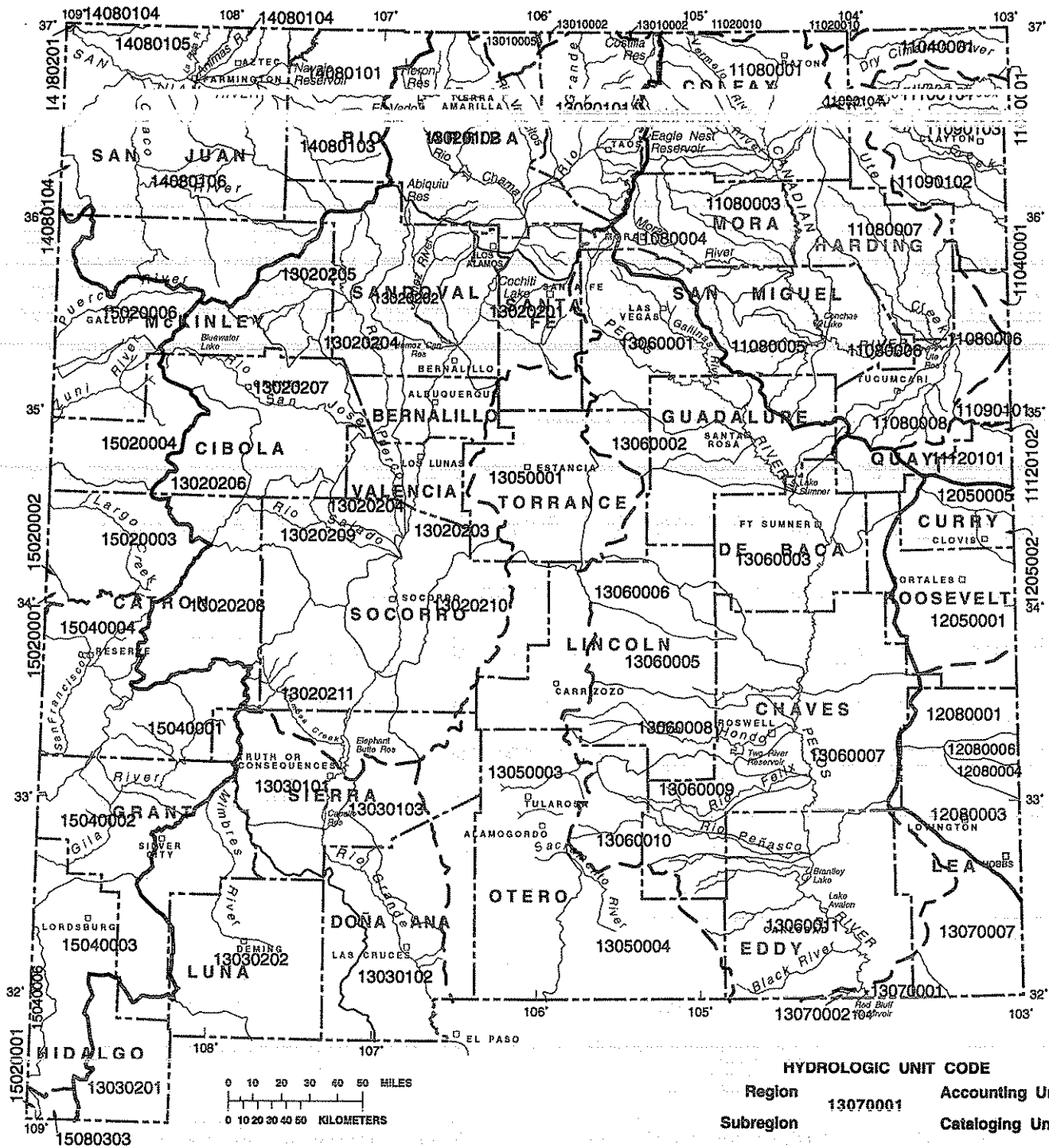


Figure 4.--Location of hydrologic units.

401450 ▲ GAGING STATION AND NUMBER--
Number by symbol is abbreviated
station number. Complete national
station number is: 08 401450
Basin number + station number

Figure 5.--Location of surface-water gaging stations.

U.S. Geological Survey basins

BASIN AND STATION NUMBER

- 07 LOWER MISSISSIPPI RIVER BASIN NUMBER
08 WESTERN GULF OF MEXICO BASIN NUMBER
09 COLORADO RIVER BASIN NUMBER

WATERWAY **RIVER BASIN BOUNDARY**

75 **STATION AND NUMBER**--Number by symbol is abbreviated station number. Complete national station number is: 08 330775

Basin number + station number

STATION AND SAMPLING FREQUENCY

CHEMICAL QUALITY:	<input checked="" type="checkbox"/> Daily	<input type="checkbox"/> Other than daily
SUSPENDED SEDIMENT:	<input checked="" type="checkbox"/> Daily	<input type="checkbox"/> Other than daily
CHEMICAL QUALITY AND SUSPENDED SEDIMENT:	<input checked="" type="checkbox"/> Both daily	<input type="checkbox"/> Both other than daily
	<input type="checkbox"/> Daily chemical quality and other than daily suspended sediment	<input type="checkbox"/> Daily suspended sediment and other than daily chemical quality

Figure 6.--Location of surface-water-quality stations.

HYDROLOGIC-DATA STATION RECORDS

LOWER MISSISSIPPI RIVER BASIN

ARKANSAS RIVER BASIN

07199450 LAKE MALOYA NEAR RATON, NM

LOCATION.--Lat 36°59'02", long 104°22'24", Colfax County, Hydrologic Unit 11080001, in Maxwell Grant, near spillway of dam on Chicorica Creek, 6.5 mi northeast of Raton, and at mile 21.5.

DRAINAGE AREA.--20.8 mi².

PERIOD OF RECORD.--May 1975 to September 1987 (monthend contents only), October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Reservoir is formed by an earthfill dam, completed in 1907; capacity, 59 acre-ft. Reservoir enlarged in 1916; capacity, 1,130 acre-ft, spillway elevation, 7,479.0 ft. Reservoir enlarged again in 1948; capacity, 3,690 acre-ft, spillway elevation, 7,511.0 ft. Elevation of lowest outlet, 7,439.0 ft. No dead storage. Water is for municipal use of City of Raton. See table below for total monthly diversion, in acre-feet, from Lake Maloya for municipal supply for City of Raton and releases to Vermejo Conservancy District.

COOPERATION.--Diversion, spillage and release data provided by City of Raton.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 3,970 acre-ft, May 31, 1975, elevation, 7,510.79 ft; maximum elevation observed, 7,512.18 ft, Apr. 30, 1987; minimum observed, 911 acre-ft, Feb. 28, 1979, elevation, 7,479.85 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 3,770 acre-ft, Apr. 18, elevation, 7,511.64 ft; minimum contents, 3,250 acre-ft, Sept. 30, elevation 7,507.32.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3640	3680	3700	3590	3550	3620	3720	3730	3720	3600	3420	3360
2	3630	3680	3700	3590	3550	3630	3720	3730	3720	3590	3420	3350
3	3630	3690	3680	3590	3560	3640	3730	3720	3720	3580	3430	3370
4	3630	3690	3680	3590	3560	3650	3730	3720	3720	3570	3430	3370
5	3630	3690	3670	3590	3570	3660	3730	3720	3710	3560	3430	3360
6	3620	3690	3660	3590	3570	3680	3730	3720	3710	3540	3430	3360
7	3620	3690	3650	3580	3570	3700	3730	3720	3700	3530	3420	3360
8	3620	3690	3640	3580	3580	3710	3730	3720	3700	3520	3420	3360
9	3620	3700	3630	3590	3580	3710	3730	3720	3700	3510	3410	3360
10	3620	3700	3620	3590	3590	3710	3730	3720	3700	3500	3410	3350
11	3630	3700	3610	3580	3590	3710	3720	3720	3700	3500	3410	3350
12	3630	3700	3600	3590	3590	3710	3730	3730	3700	3500	3400	3340
13	3630	3710	3590	3580	3600	3710	3730	3730	3700	3490	3410	3340
14	3630	3700	3590	3590	3600	3710	3730	3730	3700	3490	3420	3330
15	3630	3700	3580	3580	3600	3720	3740	3720	3700	3480	3420	3330
16	3640	3700	3590	3580	3610	3720	3750	3730	3690	3480	3410	3330
17	3640	3700	3580	3590	3610	3720	3760	3730	3690	3470	3400	3320
18	3640	3700	3580	3590	3610	3730	3770	3730	3690	3460	3400	3320
19	3650	3690	3580	3590	3610	3730	3760	3740	3690	3450	3390	3320
20	3650	3700	3580	3580	3620	3720	3760	3740	3680	3450	3390	3310
21	3650	3700	3580	3590	3620	3730	3750	3740	3680	3450	3390	3300
22	3650	3700	3580	3580	3610	3720	3750	3730	3680	3430	3380	3290
23	3650	3700	3580	3580	3610	3720	3740	3730	3670	3420	3380	3290
24	3660	3690	3590	3570	3610	3720	3740	3720	3660	3410	3370	3280
25	3660	3680	3590	3570	3610	3720	3730	3730	3660	3400	3370	3280
26	3660	3680	3590	3570	3620	3720	3720	3730	3660	3400	3370	3270
27	3660	3690	3590	3570	3620	3710	3720	3730	3640	3400	3360	3270
28	3670	3690	3590	3560	3620	3710	3730	3730	3630	3400	3360	3270
29	3670	3690	3590	3560	---	3710	3720	3720	3630	3410	3360	3260
30	3670	3700	3590	3550	---	3710	3730	3730	3610	3410	3360	3250
31	3680	---	3590	3550	---	3720	---	3720	---	3410	3350	---
MAX	3680	3710	3700	3590	3620	3730	3770	3740	3720	3600	3430	3370
MIN	3620	3680	3580	3550	3550	3620	3720	3720	3610	3400	3350	3250
(+)	7510.92	7511.09	7510.17	7509.84	7510.42	7511.25	7511.32	7511.25	7510.33	7508.67	7508.17	7507.27
(++)	+40	+20	-110	-40	+70	+100	+10	-10	-110	-200	-60	-100
(+++)	44	0	83	103	9	0	0	48	73	220	154	157
(++++)	0	0	45	0	0	0	0	0	0	0	0	0
CAL YR 1993	MAX 3820	MIN 3580	(++) -70	(+++)	1294	(++++)	45					
WTR YR 1994	MAX 3770	MIN 3250	(++) -390	(+++)	891	(++++)	45					

(+) ELEVATION, IN FEET, AT END OF MONTH
 (++) CHANGE IN CONTENTS, IN ACRE-FEET
 (+++) DIVERSION FROM LAKE MALOYA, IN ACRE-FEET
 (++++) RELEASE, IN ACRE-FEET, TO VERMEJO CONSERVANCY DISTRICT

ARKANSAS RIVER BASIN

07199550 LAKE ALICE NEAR RATON, NM

LOCATION.--Lat 36°57'15", Long 104°23'06", Colfax County. Hydrologic Unit 11080001, in Maxwell Grant, near spillway

DRAINAGE AREA.--29.4 mi².

PERIOD OF RECORD.--May 1975 to current year.

GAGE.--Nonrecording gage. Elevation of gage is National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Reservoir is formed by an earthfill dam, completed in 1892; capacity 100 acre-ft, spillway elevation, 7,078.0 ft. Reservoir rehabilitated in 1941; capacity, 71 acre-ft, spillway elevation, 7,089.6 ft. Elevation of lowest outlet, 7,064.1 ft. No dead storage. Water is for municipal use of City of Raton.

COOPERATION.--Monthend elevations and contents provided by City of Raton.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 100 acre-ft, January 31, 1994, elevation, 7,090 ft; minimum observed, 0 acre-ft, Aug., Sept. 1989, lake drained.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30, 1993.....		0	0
Oct. 31.....		0	0
Nov. 30.....		0	0
Dec. 31.....		0	0
CAL YR 1993.....	-	-	0
Jan. 31, 1994.....	7,089.6	100	+100
Feb. 28.....	7,089.6	63	- 37
Mar. 31.....	7,089.6	63	0
Apr. 30.....	7,089.6	63	0
May 31.....	7,089.6	63	0
June 30.....	7,089.6	63	0
July 31.....	7,089.6	63	0
Aug. 31.....	7,089.6	63	0
Sept. 30.....	7,089.6	63	0
WTR YR 1994.....	-	63	+ 63

ARKANSAS RIVER BASIN

07202500 EAGLE TAIL DITCH NEAR MAXWELL, NM

LOCATION.--Lat 36°38'55", long 104°33'31", Colfax County, Hydrologic Unit 11080001, in Maxwell Grant, on left bank 25 ft upstream from concrete drop structure, 300 ft upstream from Crow Creek, and 7.5 mi north of Maxwell.

PERIOD OF RECORD.--December 1944 to July 1950 (monthly discharge only October 1945 to July 1950), May 1975 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,110 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to May 1975, at site about 200 ft upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Eagle Tail ditch diverts water from Chicorica Creek for use near Maxwell. No diversions upstream from station. Several observations of water temperature were made during the year. No flow at times most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.57	2.8	3.3	e5.8	e.98	e2.5	9.0	15	.00	.00	1.3	2.6
2	.48	2.8	2.8	e6.0	e.96	e2.4	9.3	16	.00	.00	15	6.5
3	.91	2.4	2.9	e5.8	e1.1	e2.3	9.6	15	7.0	.00	30	6.5
4	1.5	3.5	2.0	e5.5	e1.2	e2.4	9.9	15	.00	.00	15	13
5	1.7	2.3	5.7	e5.6	e1.4	e2.5	10	16	.00	.00	5.0	20
6	1.4	3.4	6.7	e6.0	1.4	2.5	10	16	.00	.00	6.8	11
7	1.2	3.3	5.6	e6.2	1.0	4.7	10	17	.55	.00	5.8	4.7
8	1.4	2.4	6.7	e5.1	.57	7.2	10	17	5.7	.00	1.9	6.1
9	1.2	2.3	7.8	e3.9	.65	8.5	10	18	4.2	.00	1.5	2.8
10	1.4	2.7	7.6	e4.4	.76	8.8	11	17	1.9	.00	1.5	2.0
11	1.6	2.8	7.9	e5.1	.76	8.9	11	16	19	.00	12	1.7
12	1.8	2.9	9.3	e4.8	.88	9.2	12	21	8.8	.00	12	2.0
13	1.9	3.6	8.7	e4.4	1.1	9.1	13	20	5.6	.00	4.0	1.5
14	2.5	11	6.6	e4.1	e1.0	9.3	13	17	4.0	.00	3.4	1.8
15	2.6	13	8.7	e3.6	e1.1	9.4	13	4.2	4.0	.00	10	2.0
16	2.8	14	5.7	e3.4	e1.2	9.9	13	.03	2.9	.00	22	1.3
17	1.8	10	4.9	e3.6	e1.4	11	13	.00	2.2	.00	16	e1.1
18	1.9	15	5.1	e3.5	e1.6	12	14	2.6	1.7	.00	4.0	e.80
19	2.0	5.8	5.4	e3.4	e1.8	14	14	1.9	2.0	.00	4.9	e.64
20	2.1	4.1	6.7	e3.3	e2.0	14	14	.06	2.1	.00	19	e.58
21	1.8	7.6	5.8	e3.4	e1.9	13	15	.00	1.7	2.2	5.1	e.56
22	1.9	5.7	6.7	e2.8	e1.8	13	15	.00	1.7	3.4	2.3	e.52
23	2.5	4.5	6.0	e2.6	e1.8	13	15	.00	2.2	.16	1.7	e.47
24	1.8	3.7	6.8	e2.7	e1.9	13	15	.00	1.5	.00	1.3	e.45
25	1.8	3.8	7.1	2.5	e1.9	13	15	.05	.27	16	1.2	e.43
26	1.7	3.5	e6.8	2.5	e2.1	13	15	.19	.02	4.5	1.5	e.41
27	1.6	4.1	e6.4	2.5	e2.4	13	15	.02	.00	23	1.1	e.39
28	1.8	3.8	e6.0	2.2	e2.6	13	15	.00	.00	11	1.0	e.38
29	2.4	3.0	e5.8	1.6	---	13	15	.00	.00	8.6	2.2	e.35
30	.99	3.1	e6.0	1.6	---	12	16	.00	.00	5.0	2.1	e.30
31	3.3	---	e6.2	e1.3	---	10	---	.00	---	1.4	1.7	---
TOTAL	54.35	152.9	189.7	119.2	39.26	289.6	379.8	245.05	79.04	75.26	212.3	92.88
MEAN	1.75	5.10	6.12	3.85	1.40	9.34	12.7	7.90	2.63	2.43	6.85	3.10
MAX	3.3	15	9.3	6.2	2.6	14	16	21	19	23	30	20
MIN	.48	2.3	2.0	1.3	.57	2.3	9.0	.00	.00	.00	1.0	.30
AC-FT	108	303	376	236	78	574	753	486	157	149	421	184

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1994, BY WATER YEAR (WY)

	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956
MEAN	1.94	2.26	2.02	1.91	2.86	5.60	11.0	20.7	11.5	6.68	10.7	4.16
MAX	7.06	5.14	6.12	7.22	13.5	24.6	68.7	91.0	46.9	32.0	43.9	12.8
(WY)	1985	1947	1994	1993	1993	1983	1984	1993	1949	1949	1981	1989
MIN	.000	.000	.000	.000	.000	.000	.000	.032	.000	.097	.039	.000
(WY)	1976	1946	1946	1946	1981	1986	1978	1950	1946	1945	1980	1946

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1945 - 1994

ANNUAL TOTAL	6016.06	1929.34	
ANNUAL MEAN	16.5	5.29	
HIGHEST ANNUAL MEAN			7.19
LOWEST ANNUAL MEAN			17.8
HIGHEST DAILY MEAN	133	Apr 27	1.51
LOWEST DAILY MEAN	.00	Mar 21	1978
ANNUAL SEVEN-DAY MINIMUM	.00	Mar 21	217
ANNUAL RUNOFF (AC-FT)	11930		Aug 27 1946
10 PERCENT EXCEEDS	47		.00
50 PERCENT EXCEEDS	6.3		.00
90 PERCENT EXCEEDS	.24		.00

e Estimated

a-From rating curve extended above 85 ft³/s.

ARKANSAS RIVER BASIN

07203000 VERMEJO RIVER NEAR DAWSON, NM

LOCATION.--Lat 36°40'50", long 104°47'08", Colfax County, Hydrologic Unit 11080001, in Maxwell Grant, on left bank 1.3 mi north of Dawson, 2.3 mi upstream from Rail Canyon, and at mile 28.2.

DRAINAGE AREA --301 mi²

discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1117: 1947, drainage area. WSP 1281: 1932(M), 1934(M), 1936-38(M), 1941-42(P), 1944-46(M).

GAGE.--Water-stage recorder. Elevation of gage is 6,360 ft above National Geodetic Vertical Datum of 1929, from topographic map. See WSP 1311 or 1731 for history of changes prior to Sept. 24, 1953.

REMARKS.--Records fair except for estimated daily discharges which are poor. Diversions for irrigation of small acreage and mountain meadows upstream from station. Several observations of water temperature were made during year. U. S. Weather Service Satellite Telemeter at gage. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred Aug. 2, 1921, when discharge probably exceeded 10,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	10	11	e10	e3.5	4.0	17	53	143	32	80	151
2	7.3	9.4	12	10	.46	3.9	21	57	138	32	71	100
3	7.9	7.9	6.0	11	.31	2.3	22	56	149	31	171	e88
4	8.2	7.5	10	10	8.3	2.0	21	60	140	29	90	e76
5	7.7	7.3	6.1	7.6	e8.8	4.1	21	64	128	25	141	e66
6	7.2	7.9	9.4	11	e8.0	4.6	21	74	119	23	e98	e60
7	6.9	9.5	7.4	8.1	7.5	5.5	22	87	103	21	e92	e52
8	7.3	8.5	7.5	e12	9.6	11	21	98	96	21	e85	e48
9	7.6	7.1	9.9	e11	e8.6	8.2	21	104	89	29	e100	e36
10	7.6	12	9.7	e10	7.9	9.2	21	124	84	24	e118	e34
11	7.7	9.0	12	e9.8	e7.2	11	22	135	83	20	122	e31
12	7.4	9.5	8.4	e8.9	e6.6	12	21	144	77	20	128	e29
13	7.1	8.8	10	8.3	e6.0	11	21	167	73	19	179	e27
14	7.0	9.9	7.8	9.0	5.9	9.8	22	181	70	17	147	e25
15	7.3	11	9.7	5.9	5.5	9.9	24	174	66	16	146	e23
16	7.3	9.0	13	e11	6.9	12	25	169	57	17	147	e21
17	8.1	10	12	e12	7.4	14	29	175	55	14	146	e20
18	9.1	5.0	8.3	e11	8.2	14	35	185	53	13	143	e19
19	8.5	10	e7.0	e11	5.1	14	41	203	54	13	327	e18
20	7.7	12	e6.6	e10	4.6	15	45	235	58	13	e185	e18
21	7.3	7.6	e6.8	9.6	4.0	15	48	191	79	64	e132	18
22	6.8	10	7.5	8.1	3.3	14	53	176	71	42	e81	17
23	6.8	10	9.9	9.0	5.0	13	52	166	57	37	e46	18
24	6.8	9.0	1.3	e8.2	3.7	12	58	162	50	33	e23	18
25	7.0	5.0	7.3	e7.5	5.9	13	65	163	e45	41	24	18
26	6.4	7.0	6.7	e6.8	6.0	12	58	199	e38	53	31	18
27	7.1	10	3.1	6.0	5.7	13	52	193	e35	85	38	18
28	6.2	12	e10	5.3	6.1	13	50	172	e34	65	51	18
29	7.7	12	e11	6.1	---	11	48	161	e33	77	132	19
30	7.5	9.2	e11	5.6	---	11	49	155	e32	66	78	19
31	11	---	e10	e4.6	---	16	---	149	---	70	128	---
TOTAL	233.4	273.1	268.4	274.4	166.07	320.5	1026	4432	2309	1062	3480	1123
MEAN	7.53	9.10	8.66	8.85	5.93	10.3	34.2	143	77.0	34.3	112	37.4
MAX	11	12	13	12	9.6	16	65	235	149	85	327	151
MIN	6.2	5.0	1.3	4.6	.31	2.0	17	53	32	13	23	17
AC-FT	463	542	532	544	329	636	2040	8790	4580	2110	6900	2230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1994, BY WATER YEAR (WY)

	8.65	6.50	5.22	5.24	6.26	6.65	21.5	49.8	35.2	29.2	40.5	17.1
MEAN	8.65	6.50	5.22	5.24	6.26	6.65	21.5	49.8	35.2	29.2	40.5	17.1
MAX	51.6	30.5	15.7	15.5	16.7	34.8	370	372	179	138	147	78.4
(WY)	1942	1942	1916	1921	1920	1987	1942	1941	1965	1919	1955	1942
MIN	.15	.040	.59	.65	1.20	.80	1.21	.96	.65	1.85	4.50	.37
(WY)	1952	1952	1952	1975	1952	1951	1955	1967	1946	1963	1951	1951

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1916 - 1994

ANNUAL TOTAL	6458.8	14967.87	
ANNUAL MEAN	17.7	41.0	18.9
HIGHEST ANNUAL MEAN			89.0
LOWEST ANNUAL MEAN			2.05
HIGHEST DAILY MEAN	124	327	2340
LOWEST DAILY MEAN	1.3	.31	.00
ANNUAL SEVEN-DAY MINIMUM	5.3	3.7	.00
INSTANTANEOUS PEAK FLOW		1540	a12600
INSTANTANEOUS PEAK STAGE		7.58	15.25
ANNUAL RUNOFF (AC-FT)	12810	29690	13690
10 PERCENT EXCEEDS	35	133	45
50 PERCENT EXCEEDS	11	14	7.5
90 PERCENT EXCEEDS	6.7	6.3	1.8

e Estimated

a-From rating curve extended above 400 ft³/s on basis of slope-area measurement of peak flow.

ARKANSAS RIVER BASIN

07203505 VERMEJO DITCH NEAR COLFAX, NM

LOCATION.--Lat 36°34'18", long 104°41'53", Colfax County, Hydrologic Unit 11080001, in Maxwell Grant, on right bank. 2.0 mi southeast of Colfax, and 4.9 mi downstream from head.

PERIOD OF RECORD.--December 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,160 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Mar. 19, 1985 at site 0.8 mi downstream at same datum.

REMARKS.--Records poor. Vermejo ditch diverts water from Vermejo River for use on the Vermejo Project. Three small diversions from Vermejo ditch upstream from gage. Several observations of water temperature were made during the year. No flow at times most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	8.2	.00	e11	4.6	5.3	13	55	.00	16	12	e115
2	9.1	8.3	.00	e10	6.1	4.5	18	61	.00	29	8.8	e105
3	8.9	6.7	.00	e10	7.0	4.4	23	55	.00	29	26	e90
4	9.0	6.4	.13	e10	8.7	4.0	19	54	.00	28	25	e74
5	8.1	6.6	.06	e10	8.8	4.3	20	e60	.00	25	1.0	e62
6	7.7	7.0	.01	e11	8.4	4.8	21	e68	.00	22	.40	34
7	7.3	5.8	.03	e13	8.0	5.2	18	e77	.00	20	.00	e27
8	7.1	6.2	.11	e12	7.0	8.5	19	e85	.00	19	.00	e26
9	7.1	6.1	.01	e11	7.2	8.0	18	e90	.00	22	.00	e24
10	6.8	5.8	.01	e10	5.9	7.2	19	e100	.00	24	.00	e23
11	7.4	6.5	.03	e10	6.3	9.2	22	e108	.00	22	.05	e21
12	6.7	6.9	.03	e9.6	5.6	12	17	e76	.00	20	.00	e20
13	6.1	8.5	.03	e9.0	4.7	9.4	16	e55	.00	19	.05	e19
14	5.8	23	.05	e9.2	5.2	7.9	17	53	9.3	19	1.1	e18
15	5.7	13	.00	e9.0	4.8	8.0	18	53	45	18	.00	e18
16	5.7	8.6	.01	e11	5.7	9.5	19	51	40	18	.00	e17
17	5.9	10	.01	e11	6.4	11	21	35	36	17	.00	e16
18	6.9	10	.00	e10	6.7	12	27	5.0	34	15	.00	e17
19	6.3	9.4	.01	e11	5.4	13	35	3.6	43	14	.00	e16
20	6.4	9.5	.02	e11	8.5	14	44	2.9	e50	14	.37	e16
21	6.1	8.3	e1.3	e10	5.5	14	49	1.3	e59	103	.00	e15
22	5.7	10	e4.8	e10	4.7	13	57	e.00	e70	30	.00	13
23	5.2	4.1	e2.6	e11	4.1	12	55	e.00	e62	23	.00	12
24	5.2	.00	e5.6	e11	3.6	11	69	e.00	44	16	33	10
25	5.2	.09	e5.0	e11	4.3	11	90	e.00	38	17	21	9.2
26	5.3	.00	e7.6	e12	5.6	11	63	e.00	33	25	35	8.4
27	5.3	.00	e6.4	e10	5.9	13	49	e.00	29	49	30	7.7
28	5.4	.00	e9.0	5.3	5.8	11	44	e.00	26	34	18	7.2
29	5.8	.00	e10	6.6	---	9.4	48	e.00	26	14	e100	6.9
30	11	.00	e11	e6.9	---	8.9	41	e.00	19	23	e110	6.5
31	8.1	---	e12	5.1	---	11	---	e.00	---	8.4	e100	---
TOTAL	211.7	194.99	75.85	307.7	170.5	287.5	989	1148.80	663.30	752.4	521.77	853.9
MEAN	6.83	6.50	2.45	9.93	6.09	9.27	33.0	37.1	22.1	24.3	16.8	28.5
MAX	11	23	12	13	8.8	14	90	108	70	103	110	115
MIN	5.2	.00	.00	5.1	3.6	4.0	13	.00	.00	8.4	.00	6.5
AC-FT	420	387	150	610	338	570	1960	2280	1320	1490	1030	1690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1994, BY WATER YEAR (WY)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
MEAN	9.52	7.74	4.87	4.30	4.72	9.30	21.9	30.3	30.1	23.0	28.0	16.2		
MAX	17.3	16.3	12.2	9.93	8.89	48.6	111	62.0	77.2	52.8	51.3	40.5		
(WY)	1987	1992	1992	1994	1983	1987	1987	1985	1983	1986	1981	1991		
MIN	4.91	3.31	.61	.86	1.35	2.21	2.33	4.08	.97	6.09	11.7	1.60		
(WY)	1990	1985	1988	1988	1988	1981	1981	1981	1981	1989	1989	1993		

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1981 - 1994

ANNUAL TOTAL	4926.60	6177.41		
ANNUAL MEAN	13.5	16.9		
HIGHEST ANNUAL MEAN			16.2	
LOWEST ANNUAL MEAN			26.9	1987
HIGHEST DAILY MEAN	99	Aug 28	8.48	1989
LOWEST DAILY MEAN	.00	Mar 24	229	Jun 8 1986
ANNUAL SEVEN-DAY MINIMUM	.00	Mar 24	.00	Jun 13 1981
ANNUAL RUNOFF (AC-FT)	9770		.00	Jun 13 1981
10 PERCENT EXCEEDS	34		11720	
50 PERCENT EXCEEDS	7.1		42	
90 PERCENT EXCEEDS	.00		8.2	
			1.6	

e Estimated

ARKANSAS RIVER BASIN

07203525 VERMEJO RIVER NEAR MAXWELL, NM

LOCATION.--Lat 36°29'48", long 104°34'15", Colfax County, Hydrologic Unit 11080001, in Maxwell Grant, on right bank 30 ft upstream from bridge on Interstate Highway 25, 3.6 mi southwest of Maxwell, and 2.0 mi upstream from mouth.

NEAREST ADEA --ADEA #11

GAGE.--Water-stage recorder. Datum of gage is 5,880 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records poor. Diversions for irrigation above station. Several observations of water temperature were made during the year. No flow at times most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	3.1	2.0	.72	.89	1.8	2.2	4.1	157	5.8	.00	20
2	2.7	3.1	1.9	.29	.52	1.8	2.1	3.8	149	5.3	.00	14
3	2.7	3.0	1.7	1.3	.62	1.8	2.3	3.9	174	4.3	.00	9.8
4	2.7	2.8	1.6	.17	.29	1.7	2.2	4.3	178	4.0	.00	12
5	2.6	2.8	1.5	.00	.29	1.7	2.1	4.1	139	3.7	.00	7.0
6	2.5	3.2	1.4	.00	2.8	1.7	2.6	3.8	123	7.7	.00	7.7
7	2.4	3.3	1.2	.19	2.6	1.7	2.5	3.8	111	4.5	.00	42
8	2.4	3.1	1.1	.05	2.6	2.1	2.5	3.7	104	2.9	.00	16
9	2.5	3.0	1.0	.11	2.5	2.5	2.3	52	102	2.9	.00	13
10	2.5	3.0	.99	.14	2.4	2.2	2.2	67	98	3.4	.00	9.4
11	2.5	2.8	.87	.34	2.3	2.4	2.1	34	101	3.0	.00	7.3
12	2.5	3.0	.80	.36	2.3	2.6	1.9	134	90	3.0	.00	5.1
13	2.5	3.2	.70	.27	2.5	2.3	1.9	217	97	3.0	.00	11
14	2.5	3.8	1.1	.37	2.2	2.0	1.9	223	75	2.8	.00	5.3
15	2.6	3.5	.90	.19	2.1	1.9	1.9	214	25	2.8	.00	4.1
16	2.6	3.3	.61	.03	2.1	1.8	1.9	218	20	2.7	.00	4.0
17	2.5	3.3	1.0	.28	2.1	1.8	2.0	258	19	2.7	.00	3.2
18	2.3	3.6	.97	.63	2.1	1.7	2.0	290	19	2.7	.00	2.9
19	1.9	3.4	.54	.18	2.1	1.7	2.0	397	17	1.5	.00	2.2
20	1.9	3.6	.42	.11	2.0	1.7	2.0	522	17	.37	.00	2.9
21	1.9	3.5	1.1	.22	2.0	1.6	2.3	373	22	14	.00	1.6
22	2.0	3.4	.59	.36	1.9	1.8	2.9	282	21	30	.00	3.0
23	2.1	3.5	.95	.09	2.2	2.0	3.2	242	8.1	30	.00	3.4
24	2.1	3.0	.21	.00	2.2	2.2	2.5	213	9.0	30	.00	2.7
25	2.1	3.2	.17	.06	1.8	3.0	2.3	218	12	31	2.8	4.3
26	2.2	3.6	.16	.00	2.1	3.1	2.2	369	7.8	31	5.2	6.3
27	2.3	3.0	.07	.00	1.8	3.1	2.7	392	7.4	13	3.8	8.3
28	2.5	2.3	.42	.02	1.8	3.2	3.5	251	6.6	.00	3.4	7.6
29	2.8	2.1	.23	.00	---	2.7	4.1	199	6.5	.00	21	6.3
30	2.9	2.1	.35	.02	---	2.3	4.6	184	5.5	.00	7.9	5.2
31	2.9	---	.53	.73	---	2.1	---	164	---	.00	11	---
TOTAL	75.3	93.6	27.08	7.23	53.11	66.0	72.9	5544.5	1920.9	248.07	55.10	247.6
MEAN	2.43	3.12	.87	.23	1.90	2.13	2.43	179	64.0	8.00	1.78	8.25
MAX	2.9	3.8	2.0	1.3	2.8	3.2	4.6	522	178	31	21	42
MIN	1.9	2.1	.07	.00	.29	1.6	1.9	3.7	5.5	.00	.00	1.6
AC-FT	149	186	54	14	105	131	145	11000	3810	492	109	491

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1994, BY WATER YEAR (WY)

MEAN	2.43	3.18	2.62	2.42	2.95	2.91	2.38	33.5	22.0	7.34	14.7	4.34
MAX	4.25	5.12	5.22	3.98	5.10	6.01	4.29	179	77.9	23.0	80.4	14.5
(WY)	1985	1985	1985	1985	1985	1993	1987	1994	1987	1987	1992	1993
MIN	.48	1.13	.87	.23	1.51	1.18	.59	1.63	.17	.19	.82	.29
(WY)	1991	1991	1994	1994	1984	1991	1991	1986	1990	1990	1986	1990

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1984 - 1994

ANNUAL TOTAL	2856.28	8411.39	
ANNUAL MEAN	7.83	23.0	9.01
HIGHEST ANNUAL MEAN			23.0
LOWEST ANNUAL MEAN			1.85
HIGHEST DAILY MEAN	266	522	1060
LOWEST DAILY MEAN	.07	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.23	.00	.00
INSTANTANEOUS PEAK FLOW		755	a7300
INSTANTANEOUS PEAK STAGE		5.78	9.49
ANNUAL RUNOFF (AC-FT)	5670	16680	6530
10 PERCENT EXCEEDS	17	46	7.4
50 PERCENT EXCEEDS	3.0	2.5	2.5
90 PERCENT EXCEEDS	1.0	.03	.75

a-From rating curve extended above 120 ft/s on basis of step-backwater analysis of channel.

LOCATION.--Lat 36°33'14", long 105°16'03", Colfax County, Hydrologic Unit 11080002, in Maxwell Grant, on right bank 175 feet upstream from U.S. Highway 64, 250 feet northwest of intersection of U.S. Highway 64 and State Highway 38, about 1,000 feet upstream from high-water line of Eagle Nest Lake at Eagle Nest.

PERIOD OF RECORD.--April 1928 to October 1955 and June 1964 to current year (no winter records except water year 1932). Monthly discharge only for some periods, published in WSP 1311. Records for December 1930 to March 1931, published in WSP 732, are unreliable and should not be used. Published as "near Therna" 1928-34.

GAGE.--Water-stage recorder. Concrete control since Oct. 3, 1952. Datum of gage is 8,197.39 ft above National Geodetic Vertical Datum of 1929. See WSP 1921 for history of changes prior to Oct. 26, 1955. Oct. 26, 1955 to Nov. 12, 1974, water-stage recorder at site 160 ft downstream at datum 1.41 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 1,200 acres upstream from station. Several observations of water temperature were made during the year. No flow at times.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	---	---	---	---	---	19	55	44	3.3	2.9	12
2	1.4	---	---	---	---	---	25	53	40	3.5	4.0	11
3	1.4	---	---	---	---	---	22	49	39	3.5	5.0	9.2
4	1.4	---	---	---	---	---	21	46	34	3.3	3.3	8.3
5	1.5	---	---	---	---	---	18	49	29	3.0	3.2	7.3
6	1.4	---	---	---	---	---	21	65	26	2.9	3.0	6.9
7	1.6	---	---	---	---	---	25	81	23	2.8	2.5	6.9
8	1.8	---	---	---	---	---	26	87	e22	2.9	2.2	6.1
9	1.8	---	---	---	---	---	26	96	e20	3.1	2.1	5.5
10	1.8	---	---	---	---	---	23	105	e18	3.0	2.0	4.9
11	1.7	---	---	---	---	---	24	95	e15	2.9	2.2	4.4
12	1.7	---	---	---	---	---	22	98	e12	3.1	2.6	4.4
13	1.6	---	---	---	---	---	25	113	e11	2.7	2.4	5.0
14	1.6	---	---	---	---	---	34	105	e10	2.6	2.7	5.1
15	1.9	---	---	---	---	---	40	103	e9.0	2.4	2.9	4.7
16	1.7	---	---	---	---	13	42	103	8.3	2.6	3.7	4.1
17	2.0	---	---	---	---	34	51	106	7.1	2.6	2.6	3.9
18	2.4	---	---	---	---	57	62	105	5.7	2.7	2.2	4.1
19	2.3	---	---	---	---	41	72	123	7.2	2.5	2.2	5.0
20	2.2	---	---	---	---	29	72	127	10	2.5	4.8	5.8
21	2.0	---	---	---	---	23	76	113	11	2.7	4.8	6.0
22	---	---	---	---	---	20	73	98	14	2.5	3.6	6.0
23	---	---	---	---	---	18	78	86	10	2.0	3.0	6.3
24	---	---	---	---	---	16	83	80	8.3	2.6	2.9	6.5
25	---	---	---	---	---	15	90	85	7.0	3.0	4.3	6.5
26	---	---	---	---	---	15	73	90	5.7	2.7	3.3	6.5
27	---	---	---	---	---	11	62	74	5.4	2.4	2.9	6.5
28	---	---	---	---	---	11	58	62	4.7	2.8	2.6	6.3
29	---	---	---	---	---	16	61	59	2.7	3.1	3.3	6.8
30	---	---	---	---	---	15	55	52	3.0	2.8	3.6	6.8
31	---	---	---	---	---	14	---	48	---	2.6	6.7	---
TOTAL	36.7	---	---	---	---	348	1379	2611	462.1	87.1	99.5	188.8
MEAN	1.75	---	---	---	---	21.7	46.0	84.2	15.4	2.81	3.21	6.29
MAX	2.4	---	---	---	---	57	90	127	44	3.5	6.7	12
MIN	1.4	---	---	---	---	11	18	46	2.7	2.0	2.0	3.9
AC-FT	73	---	---	---	---	690	2740	5180	917	173	197	374

MEAN	1.69	1.45	1.08	1.50	6.64	5.19	18.0	26.4	7.18	2.45	2.89	1.78
MAX	8.20	5.64	2.76	1.50	6.64	21.7	76.3	98.1	54.0	8.80	20.2	8.37
(WY)	1970	1942	1942	1932	1932	1994	1942	1942	1979	1941	1930	1982
MIN	.000	.000	.000	1.50	6.64	.17	.22	.43	.11	.009	.050	.000
(WY)	1952	1952	1955	1932	1932	1954	1935	1934	1934	1981	1972	1951

ANNUAL TOTAL	2478.77	5212.2					
ANNUAL MEAN	12.9	23.7			7.86		
HIGHEST ANNUAL MEAN					29.1		1979
LOWEST ANNUAL MEAN					.38		1964
HIGHEST DAILY MEAN	58	May 17	127	May 20	189		Apr 23 1942
LOWEST DAILY MEAN	.69	Jul 28	1.4	Oct 2	.00		Aug 4 1934
ANNUAL SEVEN-DAY MINIMUM	.92	Jul 24	1.5	Oct 1	.00		Aug 28 1951
INSTANTANEOUS PEAK FLOW			137	May 20	240		Sep 1 1946
INSTANTANEOUS PEAK STAGE			3.18	May 20	a3.10		Sep 1 1946
ANNUAL RUNOFF (AC-FT)	4920		10340		5690		
10 PERCENT EXCEEDS	44		80		21		
50 PERCENT EXCEEDS	2.8		6.7		2.0		
90 PERCENT EXCEEDS	1.5		2.2		.20		

a-Site and datum then in use; maximum gage height 3.55 ft, May 12, 1973.

07204500 CIENEGUILLA CREEK NEAR EAGLE NEST. NM

LOCATION.--Lat 36°29'07", long 105°15'54", Colfax County, Hydrologic Unit 11080002, in Maxwell Grant, on right bank
0.1 mi. downstream from Schoolhouse Draw, 0.4 mi. upstream from highwater line of Eagle Nest Lake, 0.5 mi. east of
U.S. Highway 44, and 4.7 mi. south of Eagle Nest.

DRAINAGE AREA.--56 mi².

PERIOD OF RECORD.--April 1928 to September 1955 and June 1964 to current year (no winter records except in water years 1932, 1948 and 1951). Monthly discharge only for some periods, published in WSP 1311 and 1731. Records for December 1930 to March 1931, published in WSP 732, are unreliable and should not be used. Published as "near Thermo" 1928-34.

REVISED RECORDS.--WSP 957: 1941. WSP 1281: Drainage area. WSP 1311: 1932(M), 1935(M), 1937(M). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Concrete control since Sept. 25, 1947. Elevation of gage is 8,200 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to May 8, 1928, nonrecording gage, and May 8, 1928 to Sept. 1, 1934, water-stage recorder at site 0.2 mi downstream at different datums.

REMARKS.--Records good except for estimated daily discharges which are poor. Diversions for irrigation of about 1,000 acres upstream from station. Several observations of water temperature were made during the year. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	---	---	---	---	---	e25	122	54	6.2	8.1	17
2	2.8	---	---	---	---	---	e30	123	49	5.8	7.6	17
3	2.9	---	---	---	---	---	e25	112	52	5.4	12	10
4	2.9	---	---	---	---	---	e30	118	44	5.1	7.0	9.4
5	3.0	---	---	---	---	---	e25	167	38	4.7	18	11
6	3.0	---	---	---	---	---	e30	233	34	4.5	8.2	14
7	3.2	---	---	---	---	---	e40	242	30	4.2	5.9	17
8	3.6	---	---	---	---	---	60	221	27	4.1	5.9	11
9	3.3	---	---	---	---	---	58	197	25	4.2	5.5	8.6
10	3.2	---	---	---	---	---	49	197	23	4.2	5.5	7.1
11	3.1	---	---	---	---	---	44	199	21	4.0	5.2	6.2
12	3.1	---	---	---	---	---	46	201	20	4.1	5.2	6.1
13	3.1	---	---	---	---	---	50	239	19	4.0	4.7	8.1
14	3.1	---	---	---	---	---	90	218	17	3.9	5.7	11
15	2.8	---	---	---	---	e20	115	205	16	3.9	7.4	9.2
16	2.7	---	---	---	---	e30	114	203	15	3.9	6.5	7.3
17	2.9	---	---	---	---	e50	121	175	14	4.2	5.0	6.6
18	3.7	---	---	---	---	e70	145	159	14	4.5	4.5	6.8
19	3.2	---	---	---	---	e50	163	285	15	4.0	4.7	7.1
20	3.0	---	---	---	---	e40	169	285	17	3.7	12	6.1
21	2.8	---	---	---	---	e30	159	219	20	3.8	12	5.9
22	---	---	---	---	---	e30	159	176	17	4.0	7.0	5.6
23	---	---	---	---	---	e25	207	142	14	5.6	5.3	5.4
24	---	---	---	---	---	e23	246	118	11	4.6	5.0	5.2
25	---	---	---	---	---	e24	263	134	9.9	4.8	5.9	5.1
26	---	---	---	---	---	e25	197	157	8.4	4.8	5.4	5.1
27	---	---	---	---	---	e20	148	118	7.3	6.6	6.0	4.8
28	---	---	---	---	---	e15	130	90	6.7	5.2	5.0	4.7
29	---	---	---	---	---	e20	120	75	6.4	9.4	5.4	4.6
30	---	---	---	---	---	e22	127	65	6.6	10	5.0	4.6
31	---	---	---	---	---	e15	---	59	---	6.5	8.1	---
TOTAL	64.2	---	---	---	---	509	3185	5254	651.3	153.9	214.7	247.6
MEAN	3.06	---	---	---	---	29.9	106	169	21.7	4.96	6.93	8.25
MAX	3.7	---	---	---	---	70	263	285	54	10	18	17
MIN	2.7	---	---	---	---	15	25	59	6.4	3.7	4.5	4.6
AC-FT	127	---	---	---	---	1010	6320	10420	1290	305	426	496

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1994, BY WATER YEAR (WY)

	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2
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SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1928 - 1994
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	FOR 1950-1959		FOR 1960-1969		FOR 1970-1979		FOR 1980-1989		FOR 1990-1999	
ANNUAL TOTAL	3755.9		10279.7							
ANNUAL MEAN	19.6		46.5							
HIGHEST ANNUAL MEAN						12.7				
LOWEST ANNUAL MEAN						51.9				1942
HIGHEST DAILY MEAN	118	Apr 30	285	May 19		.83				1964
LOWEST DAILY MEAN	1.5	Aug 1	2.7	Oct 16		.00				Apr 23 1942
ANNUAL SEVEN-DAY MINIMUM	2.0	Jul 26	2.9	Oct 1		.00				Jun 15 1936
INSTANTANEOUS PEAK FLOW			337	May 19		a505				Jul 14 1936
INSTANTANEOUS PEAK STAGE			5.61	Mar 19		5.61				Jun 16 1965
INSTANTANEOUS LOW FLOW			2.6	Oct 16						Mar 19 1994
ANNUAL RUNOFF (AC-FT)	7450		20390			9240				
10 PERCENT EXCEEDS	64		166			33				
50 PERCENT EXCEEDS	4.1		11			3.0				
90 PERCENT EXCEEDS	2.5		3.7			.50				

e Estimated

a-From rating curve extended above 110 ft³/s.

ARKANSAS RIVER BASIN

07205000 SIXMILE CREEK NEAR EAGLE NEST, NM

LOCATION.--Lat 36°31'07", long 105°16'29", Colfax County, Hydrologic Unit 11080002, in Maxwell Grant, on left upstream wingwall of concrete control, 250 ft downstream from concrete box culvert on U.S. Highway 64, and 2.6 mi southwest of Eagle Nest.

DRAINAGE AREA.--10.5 mi².

PERIOD OF RECORD.--April 1928 to September 1955 (no winter records in water years 1929-31, 1933-55), July 1958 to current year (no winter records subsequent to water year 1975). Prior to October 1930 monthly discharge only, published in WSP 1311. Records for December 1930 to March 1931, published in WSP 732, are unreliable and should not be used. Published as "near Therma" 1928-34.

REVISED RECORDS.--WSP 1311: 1932-33(M), 1935(M), 1943(M). WSP 1681: 1937(M). WSP 1921: Drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Concrete control Sept. 11, 1931 to May 1933, and since Sept. 13, 1934. Datum of gage is 8,195.16 ft above National Geodetic Vertical Datum of 1929. Prior to May 18, 1928, nonrecording gage at site 88 ft upstream at datum 0.98 ft higher. May 18, 1928 to Sept. 11, 1938, water-stage recorder at site 88 ft upstream at datum 0.43 ft higher.

REMARKS.--Records good except for estimated daily discharges which are poor. Diversions for irrigation of about 300 acres upstream from station. Several observations of water temperature were made during the year. No flow at times.

AVERAGE DISCHARGE.--18 years (water years 1932, 1959-75), 2.51 ft³/s, 1,820 acre-ft/yr.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	---	---	---	---	---	12	22	27	6.5	4.4	9.3
2	2.3	---	---	---	---	---	12	21	27	6.4	4.2	5.2
3	2.4	---	---	---	---	---	15	20	25	6.2	4.2	3.9
4	2.4	---	---	---	---	---	14	20	23	6.0	3.7	3.5
5	2.3	---	---	---	---	---	11	27	21	5.8	4.3	3.3
6	2.3	---	---	---	---	---	12	42	15	5.7	3.7	3.9
7	2.5	---	---	---	---	---	13	49	14	5.5	3.5	4.3
8	2.5	---	---	---	---	---	14	47	13	5.4	3.2	3.5
9	2.5	---	---	---	---	---	14	47	12	5.4	3.2	3.2
10	2.4	---	---	---	---	---	11	42	11	5.3	3.1	3.0
11	2.4	---	---	---	---	---	12	36	10	5.4	3.1	2.9
12	2.4	---	---	---	---	---	11	47	9.5	5.5	3.1	2.9
13	2.3	---	---	---	---	---	12	58	8.3	5.1	3.2	2.9
14	2.3	---	---	---	---	---	18	54	7.0	4.7	3.5	3.3
15	2.5	---	---	---	---	---	21	54	6.6	4.6	3.9	3.4
16	2.4	---	---	---	---	5.0	24	58	6.4	4.6	3.7	3.2
17	2.5	---	---	---	---	18	30	58	6.3	3.9	3.2	3.1
18	2.6	---	---	---	---	29	35	51	6.5	2.1	3.0	3.3
19	2.5	---	---	---	---	24	39	67	7.0	1.8	3.5	3.4
20	2.4	---	---	---	---	22	40	64	8.2	1.9	5.7	3.2
21	2.4	---	---	---	---	13	39	50	12	1.8	4.6	3.0
22	---	---	---	---	---	13	39	41	11	1.5	3.4	3.0
23	---	---	---	---	---	11	44	37	10	1.4	3.2	2.9
24	---	---	---	---	---	9.2	51	35	9.2	2.3	3.2	2.9
25	---	---	---	---	---	8.5	53	38	8.6	2.1	3.1	2.9
26	---	---	---	---	---	9.1	40	37	8.1	1.8	2.9	2.8
27	---	---	---	---	---	e8.0	31	35	7.6	4.0	2.8	2.8
28	---	---	---	---	---	e7.0	27	31	7.1	4.1	2.8	2.8
29	---	---	---	---	---	e7.0	27	31	7.1	4.2	3.2	2.7
30	---	---	---	---	---	e10	25	29	6.9	4.0	2.8	2.7
31	---	---	---	---	---	e9.0	---	28	---	4.5	5.1	---
TOTAL	50.6	---	---	---	---	202.8	746	1276	351.4	129.5	110.5	103.2
MEAN	2.41	---	---	---	---	12.7	24.9	41.2	11.7	4.18	3.56	3.44
MAX	2.6	---	---	---	---	29	53	67	27	6.5	5.7	9.3
MIN	2.3	---	---	---	---	5.0	11	20	6.3	1.4	2.8	2.7
AC-FT	100	---	---	---	---	402	1480	2530	697	257	219	205
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1994, BY WATER YEAR (WY)												
MEAN	1.40	1.34	1.22	1.21	1.43	2.73	7.81	10.1	3.79	1.62	1.93	1.57
MAX	4.35	4.35	3.26	3.14	2.84	12.7	24.9	41.2	19.5	5.97	5.98	5.03
(WY)	1970	1970	1970	1970	1970	1994	1994	1994	1979	1979	1991	1991
MIN	.26	.35	.17	.29	.41	1.18	.86	.92	.43	.13	.29	.22
(WY)	1973	1975	1965	1965	1961	1965	1981	1988	1964	1981	1972	1974

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1958 - 1994
ANNUAL TOTAL	1243.67	2970.0	
ANNUAL MEAN	6.48	13.5	3.38
HIGHEST ANNUAL MEAN			13.5
LOWEST ANNUAL MEAN			.96
HIGHEST DAILY MEAN	31 Apr 30	67 May 19	67 May 19 1994
LOWEST DAILY MEAN	.48 Jul 28	1.4 Jul 23	.00 Jul 2 1960
ANNUAL SEVEN-DAY MINIMUM	.52 Jul 24	1.8 Jul 18	.06 Jun 22 1981
INSTANTANEOUS PEAK FLOW		88 May 19	a128 Aug 5 1969
INSTANTANEOUS PEAK STAGE		2.08 May 19	b3.38 Aug 2 1937
INSTANTANEOUS LOW FLOW		1.3 Jul 22	
ANNUAL RUNOFF (AC-FT)	2470	5890	2450
10 PERCENT EXCEEDS	17	39	7.7
50 PERCENT EXCEEDS	3.2	6.1	1.6
90 PERCENT EXCEEDS	.81	2.4	.43

a Estimated

a-From rating curve extended above 32 ft³/s.

b-Maximum gage height recorded, 3.38 ft, Apr. 2, 1937 (ice jam), site and datum then in use.

ARKANSAS RIVER BASIN

07205500 EAGLE NEST LAKE NEAR EAGLE NEST, NM

LOCATION.--Lat 36°31'53", long 105°13'44", Colfax County, Hydrologic Unit 11080002, in Maxwell Grant, at upstream face of Eagle Nest Dam on Cimarron River, 2.5 mi southeast of Eagle Nest, 6.7 mi west of Ute Park, and at mile 48.7.

PERIOD OF RECORD.--December 1927 to December 1944 (monthend contents only, published in WSP 1311), May 1950 to September 1965 (monthend contents only), October 1965 to June 1987, (nonrecording gage read several times a month at random intervals), July 1987 to current year. Prior to January 1972 published as Eagle Nest Reservoir.

REVISED RECORDS.--WSP 1281: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 8,056.8 ft above Geodetic Vertical Datum of 1929. Prior to October 1964 gage heights were raised by addition of 8,000 ft and called elevations.

REMARKS.--Lake is formed by concrete dam with spillway cut in natural rock, completed June 30, 1918; storage began in June 1917. Capacity, 79,120 acre-ft between gage heights 35.0 ft, sill of outlet gate, and 137.0 ft, crest of ungated spillway. Dead storage negligible. Records given herein represent usable contents. Water released is used for irrigation. Lake is recreational area. Diversions for irrigation of about 2,500 acres upstream from reservoir.

COOPERATION.--Supplemental gage readings provided by Cimarron River watermaster.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents 81,360 acre-ft, May 21-29, 1994, gage height, 137.86 ft; minimum observed, 635 acre-ft, Dec. 14, 1954, gage height, 61.33 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 81,360 acre-ft, May 21-29, gage height, 137.86 ft; minimum, 69,200 acre-ft, Nov. 6, gage height, 132.75 ft.

Capacity table (gage height in feet, and contents, in acre-feet)

(Based on data provided by New Mexico State Engineer Office in 1950)

125	53,050	135	74,350
130	63,170	140	86,590

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71150	e69360	e69380	69810	e70250	70750	74940	75040	80170	75730	72160	71530
2	71080	e69330	e69390	69770	e70270	70770	74940	75410	79900	75610	72180	e71550
3	71040	e69300	e69400	69700	e70290	70860	74670	75430	79630	75560	72180	e71580
4	70930	e69280	e69410	69790	e70310	70910	74280	75460	79580	75290	72180	e71600
5	70880	e69240	e69420	69850	e70330	70930	74260	76130	79040	75110	72180	e71630
6	70790	e69200	e69430	69900	e70350	70970	74260	76130	78860	75010	72250	71660
7	70750	e69200	69430	69940	e70370	71170	74060	76820	e78680	74820	72270	e71680
8	70790	e69210	69340	69770	e70380	71290	74060	77310	78840	74820	72250	e71710
9	70730	e69220	69450	69810	70390	71330	74060	77480	e78330	74350	72250	e71730
10	70610	e69230	69430	69810	70320	71330	74060	78120	e78170	74210	72180	e71750
11	70480	e69240	69480	e69830	70350	71330	74060	78450	e78010	74010	72180	e71750
12	70550	e69240	69540	e69850	70410	71330	73500	78870	e77850	73900	72110	e71720
13	70480	e69250	69590	e69750	70390	71330	73390	79360	77670	73770	72110	71710
14	70300	e69260	69500	e69890	70370	71330	73390	79660	e77590	73630	72070	e71720
15	70190	e69270	69480	e69910	70500	71850	73160	79660	e77520	73360	71960	e71720
16	70100	e69270	69480	e69930	70390	71940	73100	80170	77440	73230	71910	e71710
17	70080	e69280	69590	e69950	70460	72090	73120	80370	e77360	e73160	71850	e71710
18	69880	e69290	69450	e69970	70640	72850	73230	80450	e77290	e73090	71760	e71710
19	69790	e69300	69450	e69990	70570	72850	73360	80720	e77210	73010	71780	71710
20	69770	e69300	69560	e70010	70660	72850	73540	81290	77140	72990	71730	71730
21	e69740	e69310	69560	e70030	70610	75060	73680	81360	e77040	e72960	71730	71730
22	69700	e69320	69590	e70050	70390	75460	73860	81360	e76940	e72820	71710	71620
23	69680	e69330	e69600	e70070	70530	75610	73860	81360	e76830	e72680	71730	71640
24	69610	e69340	69610	e70090	70700	75580	74450	81360	e76730	e72540	71670	71530
25	e69580	e69350	69740	e70110	70660	75580	74540	81360	e76630	e72400	71640	71470
26	e69540	e69350	69680	e70130	70730	75580	75010	81360	e76530	e72260	71600	71470
27	e69510	e69360	69590	e70150	70750	75530	75040	81360	e76430	72090	71580	71420
28	e69480	e69360	69720	e70170	70750	75510	75040	81360	76160	72090	71580	71440
29	e69440	e69370	69680	e70190	---	75510	75040	81360	76000	72090	71550	71400
30	e69410	e69370	69770	e70210	---	75510	75040	80640	75850	72090	71490	71420
31	e69390	---	69810	e70230	---	75040	---	80450	---	72160	e71500	---
MAX	71150	69370	69810	70230	70750	75610	75040	81360	80170	75730	72270	71750
MIN	69390	69200	69340	69700	70250	70750	73100	75040	75850	72090	71490	71400
(†)	---	---	---	---	133.39	135.28	135.28	137.47	135.61	134.02	---	133.69
(††)	-1830	-20	+440	+420	+520	+4290	0	+5410	-4600	-3690	-660	-80

CAL YR 1993 MAX 76940 MIN 64160 (†) +5650
WTR YR 1994 MAX 81360 MIN 69200 (††) +200

(†) GAGE HEIGHT, IN FEET, AT END OF MONTH
(††) CHANGE IN CONTENTS, IN ACRE-FEET

e Estimated

ARKANSAS RIVER BASIN

07207000 CIMARRON RIVER NEAR CIMARRON, NM

LOCATION.--Lat 36° 31' 11", Long 104° 30' 42", Colfax County, hydrologic unit 10060002, in Maxwell Grant, on right bank
1.000 ft downstream from Turkey Creek Canyon 2.5 mi west of Cimarron, and at mile 21.6
DRAINAGE AREA.--254 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1950 to current year. Published as Cimarron Creek near Cimarron, October 1952 to September 1965.

REVISED RECORDS.--WSP 1281: Drainage area.

GAGE.--Water-stage recorder. Concrete control since Nov. 6, 1963. Datum of gage is 6,599.58 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Flow regulated by Eagle Nest Lake (station 07205500). Diversions upstream from station for irrigation of about 3,500 acres, part of which is downstream from station. Philmont ditch (formerly known as Cimarroncito ditch) diverts from left bank 1.5 mi upstream from station, siphons under river 0.9 mi upstream and bypasses station for off-channel storage and irrigation downstream; Raton diversion pipeline 300 ft upstream from station for City of Raton Water Supply started June, 1983. See tabulation below for monthly diversions. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	26	e7.6	e5.4	e3.6	e5.4	e185	242	327	90	36	81
2	24	14	e8.8	e5.2	e3.6	e5.2	e210	242	329	78	39	55
3	24	6.3	6.4	e6.3	e5.4	e5.2	e200	239	327	65	42	40
4	25	25	e6.6	e6.0	e6.8	e5.2	e190	184	314	58	35	32
5	26	36	e6.2	e6.6	e5.9	e5.4	e190	182	307	82	36	28
6	35	36	e6.2	e6.6	e7.0	e5.2	e190	203	271	88	22	27
7	36	17	e6.6	e5.2	e8.0	e5.2	e200	221	213	84	19	26
8	34	9.3	e6.6	e5.4	e8.0	e4.4	e210	223	198	82	18	24
9	26	7.7	e5.4	e6.5	e6.6	e4.4	e210	246	180	81	18	23
10	25	7.0	e5.2	e6.6	e6.0	5.2	e210	340	174	80	19	22
11	24	4.9	e4.8	e6.0	e6.5	3.2	e220	360	168	79	31	21
12	23	5.5	e5.2	e6.0	e5.5	3.1	e230	386	165	78	36	31
13	23	4.8	e5.6	e6.8	e5.2	e3.1	e220	401	150	76	35	37
14	23	6.0	e6.0	e7.4	e5.2	e3.0	e210	384	120	75	48	37
15	23	8.1	e5.2	e6.4	e8.0	3.9	e215	384	99	77	61	38
16	23	9.8	e5.0	e6.0	e8.0	e10	e220	396	88	76	54	37
17	24	9.2	e5.2	e7.2	e8.1	e9.0	e230	407	88	76	55	38
18	32	12	e5.4	e7.2	e6.6	e9.0	e240	418	87	77	56	37
19	31	4.2	e5.4	e8.0	e6.3	e11	e260	450	85	77	64	38
20	32	9.0	e5.5	e6.4	e7.0	e15	e275	410	94	73	82	37
21	32	7.0	e5.8	e6.2	e6.4	e20	287	372	98	70	69	37
22	33	3.7	e5.8	e5.2	e6.8	e28	284	344	97	58	52	36
23	33	4.1	e5.6	e5.2	e7.0	e35	292	341	98	56	39	35
24	33	4.4	e5.4	e5.6	e5.6	e55	309	338	95	55	51	34
25	34	3.8	e5.4	e6.0	e5.6	e100	322	354	94	56	44	33
26	34	1.0	e5.8	e5.8	e5.8	e110	291	365	101	56	39	32
27	27	1.2	e6.2	e6.0	e5.8	e125	270	363	100	76	36	31
28	25	2.8	e6.2	e5.8	e5.5	e115	256	357	96	67	35	30
29	26	e3.0	e5.2	e5.5	---	e135	247	352	92	65	35	28
30	35	e9.0	e5.6	e5.0	---	e150	244	344	93	47	35	27
31	27	---	e5.2	e3.7	---	e170	---	343	---	37	43	---
TOTAL	876	297.8	181.1	187.2	175.8	1164.1	7117	10191	4748	2195	1284	1032
MEAN	28.3	9.93	5.84	6.04	6.28	37.6	237	329	158	70.8	41.4	34.4
MAX	36	36	8.8	8.0	8.1	170	322	450	329	90	82	81
MIN	23	1.0	4.8	3.7	3.6	3.0	185	182	85	37	18	21
AC-FT	1740	591	359	371	349	2310	14120	20210	9420	4350	2550	2050
(†)	0	0	0	0	0	0	0	0	0	305	0	28
(††)	0	0	0	0	0	222	0	0	0	0	0	0

CAL YR 1993 AC-FT (†) 511 (††) 320

WTR YR 1994 AC-FT (†) 333 (††) 222

(†) DIVERSION, IN ACRE-FEET, BY PHILMONT DITCH, DATA PROVIDED BY CIMARRON RIVER WATERMASTER

(††) DIVERSION, IN ACRE-FEET, RATON DIVERSION, DATA PROVIDED BY CIMARRON RIVER WATERMASTER

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1994, BY WATER YEAR (WY)

	17.8	10.3	4.76	4.00	5.05	12.6	36.2	64.5	48.5	36.6	25.6	17.8
MEAN	17.8	10.3	4.76	4.00	5.05	12.6	36.2	64.5	48.5	36.6	25.6	17.8
MAX	44.9	26.7	14.8	18.5	43.7	149	237	329	158	71.0	70.0	50.4
(WY)	1976	1982	1989	1992	1992	1987	1994	1994	1994	1952	1950	1968
MIN	.14	1.80	1.32	1.13	1.17	1.65	2.70	23.5	8.55	6.13	1.95	.12
(WY)	1957	1993	1957	1957	1988	1955	1955	1957	1956	1956	1954	1956

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1950 - 1994	
ANNUAL TOTAL	11133.2		29449.0			
ANNUAL MEAN	30.5		80.7		23.5	
HIGHEST ANNUAL MEAN					80.7	
LOWEST ANNUAL MEAN					9.09	
HIGHEST DAILY MEAN	75	Apr 13	450	May 19	1240	Jun 17 1965
LOWEST DAILY MEAN	1.0	Nov 26	1.0	Nov 26	.00	Sep 14 1956
ANNUAL SEVEN-DAY MINIMUM	2.7	Feb 10	2.9	Nov 23	.00	Sep 14 1956
INSTANTANEOUS PEAK FLOW			522	May 19	b15500	Jun 17 1965
INSTANTANEOUS PEAK STAGE			3.58	May 19	a12.42	Jun 17 1965
INSTANTANEOUS LOW FLOW					.00	Sep 14 1956
ANNUAL RUNOFF (AC-FT)	22080		58410		17050	
10 PERCENT EXCEEDS	68		264		54	
50 PERCENT EXCEEDS	26		33		14	
90 PERCENT EXCEEDS	4.7		5.2		2.7	

e Estimated

a-From floodmarks.

b-From rating curve extended above 800 ft³/s on basis of slope-area measurements at gage heights 4.88 ft and 12.42 ft.

ARKANSAS RIVER BASIN

07207000 CIMARRON RIVER NEAR CIMARRON, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979, 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
NOV 1993										
22...	1530	4.0	382	8.1	11.0	5.5	595	11.6	118	14
DEC 20...	1350	5.5	408	7.8	-1.0	0.0	598	11.3	99	--
MAR 1994										
24...	1615	55	311	7.2	3.0	7.0	591	8.0	85	--
MAY 25...	0900	340	259	8.4	12.0	9.5	597	9.0	101	--
JUL 13...	0945	76	302	7.9	22.5	13.0	581	6.0	75	15
14...	1100	77	300	7.5	24.0	15.0	--	--	--	--
SEP 22...	1410	37	324	8.4	13.5	12.5	606	8.6	102	--

[illegible][illegible]

ARKANSAS RIVER BASIN

07207000 CIMARRON RIVER NEAR CIMARRON, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR BEGINNING WITH JANUARY 1, 1993

DATE	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)
NOV 1993										
22...	<1	20	<1	<1.0	<1	<1	<1	<1	4	<1
DEC										
20...	--	--	--	--	--	--	--	--	--	--
MAR 1994										
24...	--	30	--	--	--	--	--	--	12	--
MAY										
25...	--	30	--	--	--	--	--	--	26	--
JUL										
13...	--	20	--	--	--	--	--	--	9	--
14...	--	--	--	--	--	--	--	--	--	--
SEP										
22...	--	--	--	--	--	--	--	--	--	--

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 1993										
22...	<1	<0.10	<0.1	<1	<1	<10	5	60	0.65	69
DEC										
20...	--	--	--	--	--	--	--	--	--	--
MAR 1994										
24...	--	--	--	--	--	--	--	837	124	58
MAY										
25...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	28	5.7	72
14...	--	--	--	--	--	--	--	--	--	--
SEP										
22...	--	--	--	--	--	--	--	18	1.8	77

ARKANSAS RIVER BASIN

07207500 PONIL CREEK NEAR CIMARRON, NM

LOCATION.--Lat 36°34'25", Long 104°56'46", Colfax County, Hydrologic Unit 11080002, in Maxwell Grant, on left bank 1.6 mi downstream from confluence of North and South Ponil Creeks, and 4.7 mi northwest of Cimarron.

DRAINAGE AREA.--171 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1915 to June 1919, August 1919 to July 1925, September 1925, September 1927 to July 1929, May 1950 to current year. Prior to May 1950 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 1281: Drainage area. WSP 1731: 1920.

GAGE.--Water-stage recorder. Elevation of gage is 6,630 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to May 8, 1922, at site 0.1 mi downstream at different datum. May 8, 1922 to Aug. 8, 1929, at site 0.4 mi upstream at different datum.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 250 acres upstream from station. Diversion 1,000 ft downstream from station for irrigation of about 300 acres. No flow at times most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Discharge for flood of Aug. 8, 1929, which destroyed gage, was estimated as 5,200 ft³/s by New Mexico State Engineer.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.6	e2.0	e2.3	e1.5	3.4	28	63	89	7.6	15	40
2	1.1	2.6	e1.9	e1.9	e1.2	3.1	39	66	80	7.0	11	36
3	1.2	2.3	e1.5	e1.8	e1.0	3.2	33	65	78	6.8	20	29
4	1.1	2.4	e1.6	e2.0	e1.3	3.8	36	62	71	6.4	13	25
5	1.1	2.5	e1.4	e1.8	e1.9	4.1	37	68	60	5.5	38	28
6	1.1	2.4	e1.4	e1.6	e2.2	4.8	32	86	54	4.9	26	23
7	1.1	e2.4	e1.5	e2.2	e2.4	5.6	36	104	48	4.5	16	19
8	1.1	e2.4	e1.6	e1.9	e2.2	8.0	37	106	43	4.5	12	17
9	1.0	e2.3	e1.5	e2.0	e2.6	5.5	35	134	39	4.6	9.2	16
10	1.3	e2.3	e.96	e2.3	e2.5	6.4	34	266	36	4.4	7.7	12
11	1.3	2.2	e1.1	e2.5	e2.4	6.6	30	424	32	4.1	12	11
12	1.3	2.6	e.90	e2.7	e2.6	6.7	27	331	29	4.3	16	11
13	1.3	2.5	e1.3	e2.5	e3.1	5.2	33	348	27	4.1	17	10
14	1.3	e2.8	e1.8	e2.3	e3.0	6.4	38	320	24	4.5	15	9.9
15	1.3	e2.6	e1.9	e2.1	e3.4	8.6	51	260	21	4.3	30	9.4
16	1.3	e2.6	e1.9	e2.0	e3.0	14	65	211	19	3.9	47	8.7
17	1.4	e2.9	e2.5	e2.1	e2.4	20	79	208	17	4.1	29	8.5
18	1.5	e3.1	e3.2	e2.0	e2.2	23	94	186	16	4.1	20	8.6
19	1.7	e3.0	1.5	e1.9	e2.5	24	109	207	17	3.5	18	9.4
20	1.9	e3.1	e2.9	e1.9	e2.8	24	107	209	20	5.0	180	8.8
21	1.9	e3.2	e3.1	e3.0	e2.6	21	112	173	23	11	78	8.4
22	1.8	e3.0	e3.4	e2.8	e3.0	19	102	148	22	6.4	60	8.0
23	1.8	3.2	e3.1	e2.6	e3.8	19	115	131	18	5.2	36	7.7
24	1.8	3.5	e3.5	e2.1	e4.6	17	131	114	15	4.0	28	7.3
25	2.7	3.1	e4.2	e2.3	e3.7	16	135	122	13	5.0	24	6.9
26	2.0	e2.3	e3.3	e2.0	e3.4	16	104	144	11	5.3	19	6.7
27	2.0	e2.0	e2.9	e2.2	3.2	11	80	151	10	22	16	6.3
28	2.0	e2.6	e2.7	e2.1	3.3	12	64	140	9.1	12	14	6.0
29	2.2	e2.5	e2.4	e2.3	---	15	61	124	8.6	13	16	5.8
30	3.1	e2.4	e2.2	e2.2	---	13	53	111	8.1	8.6	18	5.5
31	3.2	---	e2.1	e1.8	---	16	---	99	---	12	25	---
TOTAL	50.3	79.4	67.26	67.2	73.8	361.4	1937	5181	957.8	202.6	885.9	408.9
MEAN	1.62	2.65	2.17	2.17	2.64	11.7	64.6	167	31.9	6.54	28.6	13.6
MAX	3.2	3.5	4.2	3.0	4.6	24	135	424	89	22	180	40
MIN	1.0	2.0	.90	1.6	1.0	3.1	27	62	8.1	3.5	7.7	5.5
AC-FT	100	157	133	133	146	717	3840	10280	1900	402	1760	811

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1994, BY WATER YEAR (WY)

	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944
MEAN	3.66	3.27	2.36	2.09	2.27	5.07	25.7	47.0	18.5	7.32	15.2	5.51																	
MAX	23.2	12.3	8.80	8.04	7.35	25.5	126	196	122	31.9	159	51.7																	
(WY)	1961	1920	1920	1920	1987	1987	1924	1924	1979	1921	1991	1991																	
MIN	.000	.000	.13	.029	.14	.33	1.94	.97	.18	.003	.31	.000																	
(WY)	1952	1952	1957	1957	1957	1955	1925	1963	1963	1964	1974	1951																	

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1916 - 1994
ANNUAL TOTAL	4180.66	10272.56	
ANNUAL MEAN	11.5	28.1	11.6
HIGHEST ANNUAL MEAN			34.5
LOWEST ANNUAL MEAN			1.38
HIGHEST DAILY MEAN	72	424	819
LOWEST DAILY MEAN	.38	.90	.00
ANNUAL SEVEN-DAY MINIMUM	.59	1.1	.00
INSTANTANEOUS PEAK FLOW		882	a5630
INSTANTANEOUS PEAK STAGE		5.08	11.13
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (AC-FT)	8290	20380	8440
10 PERCENT EXCEEDS	42	87	28
50 PERCENT EXCEEDS	3.1	6.0	3.0
90 PERCENT EXCEEDS	1.5	1.8	.40

e Estimated

a-From rating curve extended above 230 ft³/s on basis of slope-area measurements at gage heights 3.56 ft, 5.80 ft, 7.15 ft and 11.13 ft.

ARKANSAS RIVER BASIN

07207500 PONIL CREEK NEAR CIMARRON, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to current year.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
NOV 1993									
23...	1445	3.2	263	7.8	12.0	7.0	593	11.2	119
DEC									
20...	1545	2.9	290	7.6	-1.5	0.0	596	11.2	98
MAR 1994									
23...	1530	19	158	7.3	18.0	12.0	587	10.3	125
MAY									
25...	1030	103	206	7.8	14.0	10.5	593	8.9	103
JUL									
12...	1530	6.8	225	7.5	29.0	22.0	582	4.2	63
SEP									
21...	1645	8.4	306	7.9	20.0	17.0	601	7.8	103

DATE	HARD- NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS- SOLVED (MG/L AS Na) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CaCO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS Cl) (00940)
NOV 1993									
23...	110	31	8.1	11	0.5	0.90	110	24	2.0
DEC									
20...	--	--	--	--	--	--	--	--	--
MAR 1994									
23...	67	19	4.8	6.0	0.3	0.90	61	15	1.4
MAY									
25...	62	17	4.7	5.7	0.3	1.3	62	13	1.6
JUL									
12...	96	27	6.9	10	0.4	0.90	96	22	2.3
SEP									
21...	--	--	--	--	--	--	--	--	--

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 1993								
23...	0.30	11	154	10	33	37	0.32	60
DEC								
20...	--	--	--	--	--	34	0.27	77
MAR 1994								
23...	0.10	7.0	91	20	130	23	1.2	80
MAY								
25...	0.20	11	92	20	100	61	17	85
JUL								
12...	0.30	11	138	<10	92	9	0.17	69
SEP								
21...	--	--	--	--	--	13	0.30	76

ARKANSAS RIVER BASIN

07208500 RAYADO CREEK AT SAUBLE RANCH, NEAR CIMARRON, NM

LOCATION.--Lat 36°22'20", long 104°58'10", Colfax County, Hydrologic Unit 11080002, in Maxwell Grant, on right bank at Sauble Ranch (Carson-Maxwell Base Camp of Philmont Scout Ranch), 2.5 mi upstream from State Highway 21, 4.0 mi downstream from Bonito Creek, and 9.8 mi southwest of Cimarron.

DRAINAGE AREA.--65 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1909 to February 1910, June to August 1910, May 1911 to May 1913, July 1913 to February 1915, October 1915 to September 1918, March 1919 to September 1920, June 1923 to September 1924, March to May 1927, August 1927 to current year. Monthly discharge only for some periods, published in WSP 1311. Records for April and May 1910, published in WSP 287, are unreliable and should not be used. Published as Rayado River "at," "near," or "above" Abreu's Ranch near Cimarron prior to October 1925 and as Rayado River at Sauble Ranch, near Cimarron, October 1925 to September 1952.

REVISED RECORDS.--WSP 1281: 1914, 1934-35(M), 1937(M), 1941(P), 1942(M), 1944(M), drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Concrete control since Oct. 13, 1976. Elevation of gage is 6,720 ft above National Geodetic Vertical Datum of 1929, from topographic map. See WSP 1921 for history of changes prior to Oct. 1, 1954. Oct. 1, 1954 to June 16, 1965, at site 270 ft downstream at datum 2.79 ft lower.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. No diversion upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--The major flood of June 10, 1913, destroyed the gage (stage and discharge not determined). Another major flood probably occurred Sept. 29 or 30, 1904.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	6.1	5.3	e4.8	e3.8	3.8	25	69	137	17	17	36
2	4.6	5.6	5.4	e4.1	e4.0	3.7	30	65	107	16	17	36
3	4.6	5.2	5.0	e4.1	e4.2	4.3	29	62	88	16	27	33
4	4.5	5.2	6.2	e4.4	e4.3	4.8	33	68	79	15	18	29
5	4.5	5.1	5.9	e3.5	e4.8	5.5	33	86	70	14	27	27
6	4.4	4.2	e4.1	e3.2	e4.2	6.3	34	125	63	13	21	25
7	4.4	5.1	e4.4	e5.0	e3.8	7.0	30	148	57	13	17	24
8	4.7	6.2	e5.0	e5.3	3.4	6.2	29	143	52	13	15	24
9	4.4	4.9	e3.9	e5.3	4.3	7.0	28	154	48	13	13	22
10	4.4	6.3	e4.1	e5.6	3.9	9.2	26	187	45	12	13	19
11	4.3	5.9	e4.4	e5.3	3.7	6.6	24	254	41	11	12	18
12	4.2	6.0	e4.7	e4.8	3.6	5.4	23	255	39	11	11	19
13	4.3	5.3	e5.0	e5.3	3.7	6.9	23	267	37	11	11	19
14	4.3	5.2	e6.0	e5.3	4.7	9.0	24	240	35	11	14	19
15	4.4	6.7	e5.8	e4.8	3.9	11	30	224	31	10	26	16
16	4.4	5.6	e5.6	e4.4	3.9	13	40	228	29	9.8	21	15
17	4.5	8.2	e5.0	e3.5	3.0	16	63	194	28	9.8	17	14
18	5.4	5.9	e5.6	e4.8	3.2	20	103	202	29	12	16	13
19	5.0	5.1	e4.8	e4.4	3.4	25	143	341	29	10	14	13
20	5.0	5.7	e3.9	e4.6	3.3	31	136	280	30	10	23	12
21	4.9	5.3	e4.1	e4.4	3.9	32	121	204	32	12	25	12
22	4.8	5.9	e4.1	e4.6	4.0	31	113	161	28	12	21	11
23	4.6	6.7	e5.3	e4.4	3.3	31	164	138	25	12	17	11
24	4.6	6.6	e5.3	4.4	5.0	29	192	143	23	11	17	10
25	4.6	3.9	e5.0	5.0	3.2	27	178	197	22	12	19	10
26	4.9	3.2	e3.5	4.6	3.7	25	124	188	21	11	15	9.6
27	4.4	3.9	e4.1	6.5	3.7	16	104	161	20	24	14	9.2
28	4.8	6.1	4.9	4.8	3.8	19	78	145	19	26	13	8.8
29	4.5	6.5	5.0	5.9	---	18	71	150	18	30	13	8.5
30	4.3	5.8	e4.6	3.6	---	18	67	147	18	21	13	8.2
31	6.5	---	e5.0	e4.1	---	22	---	145	---	17	26	---
TOTAL	143.8	167.4	151.0	144.8	107.7	469.7	2118	5371	1300	435.6	543	531.3
MEAN	4.64	5.58	4.87	4.67	3.85	15.2	70.6	173	43.3	14.1	17.5	17.7
MAX	6.5	8.2	6.2	6.5	5.0	32	192	341	137	30	27	36
MIN	4.2	3.2	3.5	3.2	3.0	3.7	23	62	18	9.8	11	8.2
AC-FT	285	332	300	287	214	932	4200	10650	2580	864	1080	1050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1994, BY WATER YEAR (WY)

	MEAN	5.76	4.90	3.88	3.54	3.97	7.57	31.5	52.2	22.0	10.1	11.6	7.19
MAX	30.4	20.0	12.4	8.01	8.68	23.7	144	287	231	54.7	71.5	33.0	
(WY)	1942	1942	1987	1942	1987	1939	1987	1941	1965	1969	1965	1991	
MIN	1.23	1.40	1.27	1.58	1.95	2.98	5.20	3.65	1.79	1.42	2.10	.88	
(WY)	1957	1957	1957	1957	1951	1951	1956	1967	1956	1956	1956	1956	

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1912 - 1994
ANNUAL TOTAL	5879.0	11483.3	
ANNUAL MEAN	16.1	31.5	13.7
HIGHEST ANNUAL MEAN			41.6
LOWEST ANNUAL MEAN			2.83
HIGHEST DAILY MEAN	82	341	2000
LOWEST DAILY MEAN	3.2	3.0	.40
ANNUAL SEVEN-DAY MINIMUM	4.1	3.4	.67
INSTANTANEOUS PEAK FLOW		422	b9000
INSTANTANEOUS PEAK STAGE		4.44	a11.50
INSTANTANEOUS LOW FLOW			c.03
ANNUAL RUNOFF (AC-FT)	11660	22780	9910
10 PERCENT EXCEEDS	52	105	30
50 PERCENT EXCEEDS	7.0	11	5.3
90 PERCENT EXCEEDS	4.5	4.1	2.6

e Estimated

a-From floodmarks.

b-From rating curve extended above 70 ft³/s on basis of field estimate of peak flow.

c-Also may have been less during periods of ice effect.

ARKANSAS RIVER BASIN

07208500 RAYADO CREEK AT SAUBLE RANCH, NEAR CIMARRON, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD -- Water years 1981 to current year

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00301)
NOV 1993									
22...	1245	5.7	142	7.7	15.0	6.5	592	10.0	105
DEC									
20...	1130	7.1	155	7.4	-5.0	0.0	596	11.2	98
MAR 1994									
24...	1415	28	100	7.3	10.0	8.0	590	7.0	77
MAY									
24...	1545	150	73	7.6	31.0	11.0	595	8.6	100
JUL									
12...	1230	12	126	7.5	30.0	20.0	581	4.1	60
SEP									
22...	1115	11	127	7.6	10.5	8.5	602	8.9	97

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
NOV 1993									
22...	62	16	5.3	5.3	0.3	1.3	67	5.8	0.90
DEC									
20...	--	--	--	--	--	--	--	--	--
MAR 1994									
24...	39	9.9	3.4	3.3	0.2	1.5	41	5.1	1.3
MAY									
24...	29	7.8	2.2	3.1	0.3	1.1	29	5.6	1.0
JUL									
12...	54	14	4.7	4.4	0.3	1.2	61	6.1	0.70
SEP									
22...	--	--	--	--	--	--	--	--	--

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01040)	SEDI- MENT, SUS- PENDE (MG/L) (00154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (00155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70301)
NOV 1993								
22...	0.20	21	96	<10	38	12	0.19	67
DEC								
20...	--	--	--	--	--	13	0.25	68
MAR 1994								
24...	0.20	16	66	10	230	15	1.1	68
MAY								
24...	0.10	16	54	20	160	73	30	47
JUL								
12...	0.20	22	90	<10	21	12	0.37	62
SEP								
22...	--	--	--	--	--	11	0.33	68

ARKANSAS RIVER BASIN

07211000 CIMARRON RIVER AT SPRINGER, NM

LOCATION.--Lat 36°21'37", long 104°35'53", Colfax County, Hydrologic Unit 11080002, in Maxwell Grant, on left bank in Springer, 400 ft downstream from bridge on State Highway 21, 0.3 mi upstream from Salado Creek, and at mile 8.2.

DRAINAGE AREA.--1,032 mi².

PERIOD OF RECORD.--August 1907 to December 1909, January 1921 to February 1922, October 1924 to January 1926, September 1926 to current year. Monthly discharge only for some periods, published in WSP 1311. Published as Cimarron Creek at Springer, October 1952 to September 1965.

REVISED RECORDS.--WSP 827: 1934-36(M). WSP 1281: 1942, 1945-46(M).

GAGE.--Water-stage recorder. Concrete control since Nov. 5, 1954. Elevation of gage is 5,770 ft above National Geodetic Vertical Datum of 1929, from topographic map. See WSP 1311 or 1731 for history of changes prior to July 17, 1942.

REMARKS.--Records good, except for estimated daily discharge which are fair. Flow partly regulated by Eagle Nest Lake (station 07205500). Diversions for irrigation of about 23,000 acres upstream from station and a few hundred acres between station and mouth. Several observations of water temperature were made during the year. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, about 22 ft, Sept. 29, 1904 (backwater from debris on railroad bridge). Another major flood occurred June 11, 1913. Maximum discharge of these floods probably extended 10,000 ft³/s, but probably were less than the 1965 flood.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1	5.8	6.8	7.0	e20	e9.7	20	227	493	630	4.3	23
2	5.9	7.7	e12	e20	e11	19	267	496	601	4.2	19
3	5.9	7.2	12	e19	e14	18	237	413	590	3.7	11
4	5.4	5.5	e13	e23	19	17	226	369	574	2.2	13
5	4.9	5.2	e15	e25	23	16	230	325	539	4.8	19
6	4.6	5.2	e16	e24	19	13	248	419	501	10	11
7	4.5	5.4	e14	e15	18	11	256	516	375	4.8	8.6
8	4.2	5.0	15	e15	19	14	271	583	310	6.1	7.7
9	3.8	4.9	16	e15	17	17	274	586	217	7.4	8.7
10	3.5	4.3	15	e17	15	16	274	698	191	8.8	7.6
11	3.3	4.1	14	e15	15	22	293	1040	193	9.8	7.3
12	3.3	4.7	15	e15	15	27	292	1150	157	1.7	3.2
13	2.6	4.4	15	e15	12	25	289	1240	143	1.3	4.7
14	1.9	6.8	e13	e20	11	22	276	1210	90	1.1	8.6
15	1.6	6.7	e12	e23	18	24	292	1090	55	1.3	19
16	2.3	6.0	e13	e26	19	23	318	1010	31	.92	11
17	3.9	5.8	e11	e21	21	24	339	1040	26	8.1	7.4
18	3.9	6.1	e13	e26	20	26	464	1020	21	e9.3	5.3
19	3.9	6.6	e14	e27	21	28	548	1150	26	3.9	4.6
20	5.1	7.1	e21	e32	19	28	566	1490	30	3.8	11
21	4.1	6.4	e14	e28	18	29	558	1400	29	8.2	37
22	4.6	6.0	e14	e25	17	32	567	1160	36	7.5	57
23	5.2	6.6	e14	e32	15	47	575	990	28	4.5	69
24	5.4	6.9	e15	e25	16	55	615	854	19	2.4	57
25	4.7	5.6	17	e20	20	99	653	854	18	3.9	54
26	6.0	5.9	19	20	18	128	640	1010	19	8.1	50
27	6.4	5.6	20	17	18	145	585	897	23	19	39
28	5.8	5.2	20	17	19	134	552	827	16	22	37
29	6.9	5.6	20	16	---	149	514	772	13	21	56
30	7.0	5.5	e18	e12	---	164	505	728	8.1	26	62
31	6.1	---	e17	e10	---	188	---	680	---	19	79
TOTAL	142.5	174.8	464.0	635	476.7	1580	11951	26510	5509.1	239.12	807.7
MEAN	4.60	5.83	15.0	20.5	17.0	51.0	398	855	184	7.71	26.1
MAX	7.0	7.7	21	32	23	188	653	1490	630	26	79
MIN	1.6	4.1	7.0	10	9.7	11	226	325	8.1	.92	3.2
AC-FT	283	347	920	1260	946	3130	23700	52580	10930	474	1600
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 1994, BY WATER YEAR (WY)											
MEAN	8.35	7.69	7.04	7.24	7.78	10.3	34.1	83.1	39.2	10.8	17.5
MAX	98.0	68.3	59.0	62.3	63.8	242	506	928	699	146	154
(WY)	1942	1942	1987	1987	1992	1987	1987	1941	1965	1965	1991
MIN	.039	.23	.28	.33	.33	.35	.50	.73	1.01	.39	.17
(WY)	1957	1957	1957	1957	1957	1957	1957	1956	1925	1974	1978

SUMMARY STATISTICS		FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1908 - 1994	
ANNUAL TOTAL		10905.30		50903.92			
ANNUAL MEAN		29.9		139		20.7	
HIGHEST ANNUAL MEAN						139	
LOWEST ANNUAL MEAN						.90	
HIGHEST DAILY MEAN		248	Aug 4	1490	May 20	10500	Jun 18 1965
LOWEST DAILY MEAN		.36	Jul 9	.92	Jul 16	.00	Sep 2 1954
ANNUAL SEVEN-DAY MINIMUM		.48	Jul 4	2.6	Oct 10	.00	Sep 16 1954
INSTANTANEOUS PEAK FLOW				1630	May 20	b29500	Jun 18 1965
INSTANTANEOUS PEAK STAGE				6.05	May 20	a19.96	Jun 18 1965
ANNUAL RUNOFF (AC-FT)		21630		101000		14980	
10 PERCENT EXCEEDS		113		554		25	
50 PERCENT EXCEEDS		13		19		4.0	
90 PERCENT EXCEEDS		3.4		4.7		1.2	

e Estimated

a-From floodmarks.

b-From rating curve extended above 1,800 ft³/s on basis of contracted-opening measurement of peak flow.

ARKANSAS RIVER BASIN

07211500 CANADIAN RIVER NEAR TAYLOR SPRINGS, NM

LOCATION.--Lat 36°17'49", long 104°29'36", in NW¼ sec. 21, T.24 N., R.23 E., Colfax County, Hydrologic Unit 1000000, on 1000' grid, 2.3 mi south of Taylor Springs, 2.3 mi downstream from Cimarron River, 2.4 mi upstream from Chico Creek, 7.1 mi southeast of Springer, and at mile 847.9.

DRAINAGE AREA.--2,850 mi².

PERIOD OF RECORD.--January 1940 to September 1958, and annual maximum, water years 1959-63. June 1964 to current year. Water-year estimate for 1940, published in WSP 1311.

REVISED RECORDS.--WSP 1177: Drainage area. WSP 1281: 1941-42(P), 1945-47(M), 1948-50(P).

GAGE.--Water-stage recorder. Elevation of gage is 5,640 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 10, 1964, water-stage recorder at site 1.7 mi downstream at different datum; operated as crest-stage gage at that site and datum during water years 1959-64.

REMARKS.--Records fair. Diversions for irrigation of about 30,000 acres upstream from station. Several observations of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemeter at station. No flow at times some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood prior to 1965 occurred Sept. 29, 1904, discharge published as 91,100 ft³/s in WSP 842, 847.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	23	27	43	34	35	226	411	815	21	96	160
2	13	23	29	49	30	32	256	409	750	20	77	265
3	13	23	29	41	36	31	241	337	1040	20	100	197
4	13	20	29	50	42	29	231	302	806	15	219	210
5	13	19	31	55	49	28	223	243	712	13	61	179
6	12	20	32	57	42	25	258	303	649	25	36	183
7	12	21	32	41	41	22	253	410	474	16	25	187
8	12	21	34	55	44	28	254	489	383	16	17	159
9	11	20	35	50	37	34	253	486	315	17	18	132
10	11	19	37	56	33	31	243	974	269	18	15	117
11	11	19	35	52	34	37	282	1160	275	24	28	98
12	12	20	37	50	33	45	286	1220	243	15	26	93
13	13	21	35	44	28	43	288	1610	232	10	18	141
14	12	29	31	48	29	36	288	1410	175	10	43	121
15	12	25	30	50	32	38	288	1250	109	11	185	99
16	13	25	32	55	30	35	288	1150	64	9.8	65	92
17	16	24	34	44	35	35	288	1190	54	11	37	73
18	16	25	46	53	35	37	397	1130	48	27	26	64
19	17	26	35	62	35	39	567	1590	51	18	22	61
20	19	26	38	51	31	37	589	1770	53	16	158	62
21	19	26	38	48	31	40	569	1700	61	29	163	63
22	19	27	40	43	29	42	563	1360	59	40	95	59
23	19	26	24	44	27	55	580	1180	51	22	90	58
24	20	24	34	45	30	60	628	1050	40	15	92	56
25	18	18	34	42	34	108	680	1070	34	11	86	53
26	17	23	36	46	34	131	656	1470	32	12	80	57
27	18	27	42	37	33	150	554	1490	36	61	56	48
28	18	29	42	33	34	137	500	1260	30	95	50	36
29	21	35	44	39	---	155	452	1060	25	57	71	30
30	20	28	41	33	---	167	437	960	23	54	87	25
31	21	---	41	27	---	203	---	881	---	52	95	---
TOTAL	474	712	1084	1443	962	1925	11618	31325	7908	780.8	2237	3178
MEAN	15.3	23.7	35.0	46.5	34.4	62.1	387	1010	264	25.2	72.2	106
MAX	21	35	46	62	49	203	680	1770	1040	95	219	265
MIN	11	18	24	27	27	22	223	243	23	9.8	15	25
AC-FT	940	1410	2150	2860	1910	3820	23040	62130	15690	1550	4440	6300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1994, BY WATER YEAR (WY)

MEAN	38.8	22.1	19.6	20.4	25.0	27.1	132	239	133	90.8	121	80.5
MAX	451	192	105	121	186	337	2853	2174	2313	509	563	1354
(WY)	1942	1942	1943	1943	1948	1987	1942	1941	1965	1947	1981	1942
MIN	.000	.93	1.06	1.23	1.04	1.97	1.40	3.58	2.67	1.55	4.72	.000
(WY)	1957	1957	1957	1957	1957	1957	1954	1976	1964	1974	1975	1956

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1940 - 1994

ANNUAL TOTAL	32910.0	63646.8	
ANNUAL MEAN	90.2	174	80.0
HIGHEST ANNUAL MEAN			564
LOWEST ANNUAL MEAN			7.60
HIGHEST DAILY MEAN	1650	Jul 20	1770
LOWEST DAILY MEAN	2.9	Jul 11	9.8
ANNUAL SEVEN-DAY MINIMUM	3.7	Jul 7	12
INSTANTANEOUS PEAK FLOW			3150
INSTANTANEOUS PEAK STAGE			5.96
ANNUAL RUNOFF (AC-FT)	65280	126200	57980
10 PERCENT EXCEEDS	281	558	125
50 PERCENT EXCEEDS	32	41	14
90 PERCENT EXCEEDS	15	17	2.7

a-From floodmarks.

b-From rating curve extended above 7,000 ft³/s on basis of slope-area measurement of peak flow.

ARKANSAS RIVER BASIN

07215500 MORA RIVER AT LA CUEVA, NM

LOCATION.--Lat 35°56'27", long 105°14'59", Mora County, Hydrologic Unit 11080004, in Mora Grant, on left bank 45 ft upstream from bridge on State Highway 518 at La Cueva, 0.3 mi downstream from La Cueva damsite, and at mile 86.8. DRAINAGE AREA.--173 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1903 to April 1905 (gage heights and discharge measurements only), May to December 1905, May 1906 to July 1911, April 1931 to current year. Monthly discharge only for some periods, published in WSP 1311. Records for February to April 1905, published in WSP 173, are unreliable and should not be used.

REVISED RECORDS.--WSP 857: 1937. WSP 1281: 1931(M), 1932. WSP 1511: Drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Elevation of gage is 7,000 ft above National Geodetic Vertical Datum of 1929, from topographic map. Mar. 10, 1915 to June 4, 1921 water-stage recorder at site 2.8 mi upstream at different datum. July 6, 1921 to Jan. 5, 1929, nonrecording gage or water-stage recorder at site 0.7 mi downstream at datum about 14 ft lower and Jan. 6, 1929 to Apr. 1, 1972, water-stage recorder at site 0.7 mi downstream at datum about 15 ft lower.

REMARKS.--Water-discharge records good, except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 7,000 acres, part of which are downstream from station. See tabulation below for monthly and yearly diversion of La Cueva Canal, which bypasses gage on left bank. Several observations of water temperature were made during the year. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 29, 1904, may have exceeded 20,000 ft³/s; another major flood occurred June 11, 1913, but is believed less than that of 1904.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	16	e2.0	3.1	e.85	e2.1	17	99	324	e26	51	89
2	16	16	1.3	2.1	e.90	e2.1	15	95	319	e25	41	66
3	15	16	1.1	2.8	e.95	e2.3	14	88	307	e20	32	55
4	14	13	1.7	1.9	e.90	e2.2	17	84	278	e14	32	56
5	14	12	1.3	1.2	e.90	e1.8	22	84	257	e15	42	53
6	12	12	.95	.71	e.90	e.90	24	117	225	e16	29	66
7	12	12	1.0	1.9	e.90	e.60	31	151	193	e15	26	61
8	12	12	1.0	5.0	e.85	e.65	27	169	173	e13	24	52
9	12	12	1.0	1.0	e.90	1.1	27	187	156	e10	24	50
10	15	11	1.0	1.4	e.95	1.9	27	253	140	e7.0	22	44
11	15	10	.93	1.1	e.95	2.0	36	263	126	e6.5	25	41
12	14	15	1.1	8.9	e1.0	7.2	35	262	110	e6.0	26	42
13	14	18	9.7	1.8	e1.0	11	33	281	105	e5.0	20	47
14	10	19	13	1.3	e1.1	6.8	40	286	99	e5.5	28	48
15	12	19	1.1	1.0	e1.1	2.7	40	297	87	e7.2	54	46
16	15	19	3.3	.48	e1.3	2.7	43	310	92	e7.0	53	35
17	18	19	6.5	1.1	e1.5	2.4	42	333	93	e6.5	35	36
18	16	19	5.2	.58	e1.7	2.5	51	343	92	e6.0	33	40
19	15	6.9	1.9	.54	e1.6	2.4	62	576	97	e6.0	26	40
20	16	1.5	2.3	.55	e1.5	4.7	64	634	119	e11	51	35
21	16	1.4	e2.5	.54	e1.5	7.4	66	559	112	e10	51	32
22	16	1.4	2.3	.58	e1.4	7.3	73	465	107	e15	34	31
23	15	2.0	e2.5	.53	e1.5	7.3	124	408	97	15	24	29
24	13	2.8	e2.5	.43	e1.6	7.3	140	389	90	16	24	24
25	15	2.4	e1.5	.44	e2.4	3.6	145	392	78	17	26	19
26	16	e2.0	e2.0	.43	e3.2	4.7	124	462	70	17	39	20
27	16	e2.5	1.7	e2.7	e2.6	6.9	99	439	66	24	52	17
28	15	e2.5	1.7	e1.2	e2.8	7.7	84	365	e42	19	39	15
29	15	e2.5	2.0	e1.1	---	6.6	86	347	e38	36	37	17
30	15	e2.5	2.2	e1.1	---	8.0	92	339	e32	23	37	19
31	15	---	2.5	e1.2	---	17	---	328	---	27	51	---
TOTAL	449	300.4	80.78	48.71	38.75	143.85	1700	9405	4124	446.7	1088	1225
MEAN	14.5	10.0	2.61	1.57	1.38	4.64	56.7	303	137	14.4	35.1	40.8
MAX	18	19	13	8.9	3.2	17	145	634	324	36	54	89
MIN	10	1.4	.93	.43	.85	.60	14	84	32	5.0	20	15
AC-FT	891	596	160	97	77	285	3370	18650	8180	886	2160	2430
(†)	399	451	693	744	529	390	336	188	451	635	448	264

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 1994, BY WATER YEAR (WY)

	MEAN	17.2	11.4	8.80	8.00	7.75	11.1	34.7	79.6	63.9	34.3	44.7	28.9
MAX	87.6	60.7	39.4	21.9	25.5	51.2	244	555	314	142	182	111	
(WY)	1942	1942	1907	1907	1907	1987	1942	1941	1941	1911	1961	1991	
MIN	.64	.38	.55	.000	.52	1.05	2.05	1.53	1.11	3.02	1.43	.46	
(WY)	1957	1957	1957	1908	1957	1957	1933	1967	1956	1934	1956	1956	

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1906 - 1994
ANNUAL TOTAL	11122.08	19050.19	
ANNUAL MEAN	30.5	52.2	29.2
HIGHEST ANNUAL MEAN			113
LOWEST ANNUAL MEAN			3.12
HIGHEST DAILY MEAN	151	May 28	634
LOWEST DAILY MEAN	.93	Dec 11	.43
ANNUAL SEVEN-DAY MINIMUM	1.0	Dec 6	.50
INSTANTANEOUS PEAK FLOW			885
INSTANTANEOUS PEAK STAGE			5.89
INSTANTANEOUS LOW FLOW			.10
ANNUAL RUNOFF (AC-FT)	22060	37790	21130
10 PERCENT EXCEEDS	89	140	75
50 PERCENT EXCEEDS	18	15	12
90 PERCENT EXCEEDS	2.5	1.1	1.6

e Estimated

a-From rating curve extended above 400 ft³/s.

b-Site and datum then in use.

CAL YR 1993 (†) 6002 WRT YR 1994 (†) 5528

(†) DIVERSION, IN ACRE-FEET, BY LA CUEVA CANAL

ARKANSAS RIVER BASIN

07215500 MORA RIVER AT LA CUEVA, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD --Water years 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00301)
NOV 1993									
29...	1130	13	460	8.6	17.5	5.0	584	14.5	149
MAR 1994									
08...	1400	0.66	484	8.3	-0.5	0.0	592	11.2	99
MAY									
05...	1430	89	451	7.9	26.0	10.0	602	10.0	113
JUN									
21...	1300	112	402	8.1	25.0	18.5	570	13.4	193

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
NOV 1993									
29...	250	76	14	14	0.4	1.1	198	67	14
MAR 1994									
08...	240	69	16	16	0.5	1.1	196	68	7.9
MAY									
05...	190	57	11	7.1	0.2	0.90	144	55	3.7
JUN									
21...	200	59	12	7.1	0.2	1.2	157	58	3.3

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 1993								
29...	0.50	11	316	40	5	28	0.98	50
MAR 1994								
08...	0.50	9.4	305	30	13	32	0.06	24
MAY								
05...	0.20	8.0	229	30	28	--	--	--
JUN								
21...	0.20	8.0	243	30	15	67	20	67

LOCATION.--Lat 35°53'27", long 105°09'47", Mora County, Hydrologic Unit 11080004, in Mora Grant, on right bank 0.7 mi upstream from bridge on State Highway 161, 1.2 mi east of Golondrinas, 1.9 mi upstream from Coyote Creek, 4.7 mi downstream from Rito Cebollia, and at mile 75.8.

PERIOD OF RECORD.--March 1915 to May 1921, October 1921 to March 1922, May, August, September 1922, July 1923 to July 1924, December 1924 to September 1986, March 1988 to current year. Monthly discharge only 1915-30, published in WSP 1311.

GAGE.--Water-stage recorder. Elevation of gage is 6,750 ft above National Geodetic Vertical Datum of 1929, from topographic map. Mar. 10, 1915 to June 4, 1921, water-stage recorder at site 2.8 mi upstream at different datum. July 6, 1921 to Jan. 5, 1929, nonrecording gage or water-stage recorder at site 0.7 mi downstream at datum about 14 ft lower and Jan. 6, 1929 to Apr. 1, 1972, water-stage recorder at site 0.7 mi downstream at datum about 15 ft lower.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of Sept. 29, 1904, and June 11, 1913, probably exceeded 25,000 ft³/s.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	23	18	7.3	e3.0	8.8	35	131	373	32	74	176
2	15	22	8.6	6.1	e3.3	9.0	33	119	369	32	61	108
3	15	22	6.7	6.9	e3.4	9.5	26	104	348	28	46	82
4	14	18	6.4	7.0	e3.2	9.3	26	101	317	25	43	80
5	14	15	7.5	7.1	e3.1	8.3	31	95	271	20	56	89
6	12	14	7.1	4.7	e3.3	6.4	35	113	235	23	44	95
7	12	13	7.4	4.5	e3.4	2.5	49	159	197	20	36	82
8	12	14	7.8	7.4	e3.2	2.8	40	189	176	21	31	70
9	12	14	8.2	7.7	e3.1	2.5	38	202	159	20	30	66
10	15	13	8.2	6.9	e3.3	2.6	36	310	139	18	27	61
11	19	13	8.0	5.9	e3.5	3.0	42	494	124	16	26	57
12	17	15	8.5	e7.0	3.4	3.7	56	370	108	15	37	57
13	17	22	10	e6.5	3.6	8.4	50	395	103	12	28	62
14	15	23	17	5.9	3.8	10	55	385	101	11	38	65
15	15	22	9.1	5.9	3.8	4.6	59	381	84	14	105	62
16	16	23	7.9	4.8	3.8	5.6	58	390	78	17	101	53
17	19	23	9.1	4.5	5.3	5.7	54	446	82	15	56	50
18	20	23	8.8	5.4	6.0	5.1	59	443	84	14	50	55
19	17	19	7.6	4.7	5.8	5.1	71	1450	93	13	45	56
20	18	9.6	6.0	4.3	5.3	5.5	72	1250	99	15	71	52
21	18	9.0	6.5	4.2	5.2	10	76	908	97	16	72	48
22	19	8.9	6.7	4.0	5.1	11	80	706	96	11	55	44
23	18	8.8	6.6	4.0	5.3	12	147	542	91	14	40	42
24	16	9.1	e6.0	4.2	5.2	12	163	492	83	17	40	36
25	18	8.7	e6.5	3.8	6.0	12	161	532	71	25	44	29
26	18	7.2	e7.0	4.0	12	9.1	141	703	60	28	46	29
27	19	15	9.7	3.8	7.0	16	110	926	60	93	73	28
28	19	18	7.3	4.4	12	15	92	517	49	28	53	24
29	20	19	6.7	4.1	---	15	94	446	49	118	53	25
30	22	18	6.3	3.9	---	16	108	430	37	66	47	28
31	21	---	6.4	4.1	---	21	---	393	---	31	85	---
TOTAL	517	482.3	253.6	165.0	134.4	267.5	2097	14122	4233	828	1613	1811
MEAN	16.7	16.1	8.18	5.32	4.80	8.63	69.9	456	141	26.7	52.0	60.4
MAX	22	23	18	7.7	12	21	163	1450	373	118	105	176
MIN	12	7.2	6.0	3.8	3.0	2.5	26	95	37	11	26	24
AC-FT	1030	957	503	327	267	531	4160	28010	8400	1640	3200	3590

STATISTICS OF RAINFALL DATA FOR WATER YEARS 1957, 1958 AND 1959												
	1957	1958	1959	1957	1958	1959	1957	1958	1959	1957	1958	1959
MEAN	21.9	14.7	12.0	12.0	11.5	13.0	45.5	93.4	71.8	40.7	57.2	34.5
MAX	119	86.8	38.9	29.7	27.2	68.8	361	661	377	321	307	153
(WY)	1942	1942	1942	1942	1919	1985	1942	1941	1941	1919	1961	1991
MIN	.21	.40	.52	.65	.55	.58	.25	1.01	.030	1.63	.000	.27
(WY)	1957	1957	1957	1957	1957	1957	1955	1971	1934	1934	1934	1956

WATER YEARS 1915 - 1994

SUMMARY STATISTICS	FOR 1939 CALENDAR YEAR	FOR 1940 CALENDAR YEAR	FOR 1941 CALENDAR YEAR	FOR 1942 CALENDAR YEAR
ANNUAL TOTAL	11731.5	26523.8		
ANNUAL MEAN	32.1	72.7	34.9	
HIGHEST ANNUAL MEAN			144	1941
LOWEST ANNUAL MEAN			3.42	1956
HIGHEST DAILY MEAN	172 May 28	1450 May 19	1750	Apr 23 1942
LOWEST DAILY MEAN	5.0 Jan 11	2.5 Mar 7	.00	May 4 1917
ANNUAL SEVEN-DAY MINIMUM	5.2 Jan 10	3.2 Feb 4	.00	Aug 4 1917
INSTANTANEOUS PEAK FLOW		6180 May 19	a14000	Aug 22 1952
INSTANTANEOUS PEAK STAGE		5.82 May 19	b14.40	Aug 22 1952
INSTANTANEOUS LOW FLOW		.16 Jan 26		
ANNUAL RUNOFF (AC-FT)	23270	52610	25290	
10 PERCENT EXCEEDS	89	159	90	
50 PERCENT EXCEEDS	19	19	14	
90 PERCENT EXCEEDS	6.4	4.6	2.0	

a-From rating curve extended above 660 ft³/s on basis of slope-area measurements of peak flow.

a-From rating curve extended
b-Site and datum then in use.

ARKANSAS RIVER BASIN

07218000 COYOTE CREEK NEAR GOLONDRINAS. NM

LOCATION.--Lat 35°55'00", Long 105°09'49", Mora County, Hydrologic Unit 11080004, in Mora Grant, on left bank 0.5 mi downstream from Coyote Creek damsite, 2.0 mi northeast of Columbian, and at mile 2.1.

מחזורי שבת. "שבת שבת".

PERIOD OF RECORD.--April 1928 to September 1930 (monthly discharge only, published in WSP 1311), October 1930 to current year.

REVISED RECORDS.--WSP 1281: 1939-40(M), 1941-42, 1945-47. WSP 1511: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,780 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Apr. 26, 1938, at site 0.4 mi downstream at different datum (nonrecording gage prior to Apr. 20, 1929). Apr. 26, 1938 to Sept. 25, 1946, at site 139 ft downstream at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions (including off-channel storage) for irrigation of about 4,000 acres upstream from station. Several observations of water temperature were made during the year. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	11	13	12	e13	e12	14	89	66	2.8	e26	57
2	5.6	12	13	9.6	e15	e13	15	84	60	2.6	e18	35
3	5.6	12	12	11	e18	e12	17	67	55	2.6	e13	31
4	5.5	11	12	9.2	e22	e13	20	61	54	2.6	e12	30
5	5.4	11	11	9.8	e14	e10	23	53	49	2.5	e26	53
6	5.4	11	12	8.7	e13	e3.5	27	47	38	2.5	e18	49
7	5.4	11	10	8.4	e16	e2.0	24	41	30	2.5	e12	32
8	6.3	11	12	9.1	e10	e2.4	22	44	27	2.5	e11	28
9	5.2	11	11	8.9	e8.0	2.3	24	56	25	2.5	e9.5	26
10	5.1	11	12	8.8	e8.0	2.6	32	142	22	2.5	e9.0	23
11	5.0	11	12	8.6	e7.0	3.4	39	326	e16	4.0	e9.0	22
12	5.0	12	12	10	e6.5	3.1	37	205	e15	7.0	e16	21
13	5.0	12	11	9.6	e7.0	2.8	37	148	e14	5.1	e9.5	22
14	5.0	13	14	8.9	e7.0	2.8	32	152	e13	3.1	e13	22
15	6.2	13	13	9.8	e7.0	2.8	31	158	e12	3.2	e40	20
16	6.0	13	13	6.8	e9.0	2.8	31	189	e11	3.0	e27	19
17	5.6	13	15	9.4	e9.0	2.1	38	187	e12	2.9	e21	18
18	5.6	13	16	7.5	e9.0	1.5	40	177	11	3.2	e17	18
19	5.6	13	12	7.7	e9.0	6.4	33	1080	14	3.9	13	18
20	5.8	12	11	9.4	e8.0	12	39	879	13	3.6	23	17
21	6.7	11	15	10	e8.0	12	38	470	11	3.7	36	17
22	7.5	13	10	e10	e8.0	11	44	256	11	3.7	31	16
23	7.5	12	17	e9.0	e8.0	8.0	55	184	11	2.3	19	15
24	7.5	13	20	9.4	e8.5	3.1	59	139	10	2.5	17	11
25	6.3	13	16	11	e14	1.9	58	166	11	2.1	18	13
26	5.4	13	14	e20	e13	1.9	64	224	10	2.2	17	13
27	5.4	12	9.7	e23	e11	2.0	64	257	10	e5.0	18	12
28	8.8	11	9.5	e19	e14	5.4	61	157	7.3	e7.5	15	11
29	11	14	11	e15	---	11	74	113	2.8	e9.0	17	11
30	11	12	13	e13	---	12	83	89	2.8	e11	25	11
31	11	---	13	e13	---	15	---	75	---	e8.5	31	---
TOTAL	198.0	361	395.2	335.6	300.0	195.8	1175	6315	643.9	122.1	587.0	691
MEAN	6.39	12.0	12.7	10.8	10.7	6.32	39.2	204	21.5	3.94	18.9	23.0
MAX	11	14	20	23	22	15	83	1080	66	11	40	57
MIN	5.0	11	9.5	6.8	6.5	1.5	14	41	2.8	2.1	9.0	11
AC-FT	393	716	784	666	595	388	2330	12530	1280	242	1160	1370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1994. BY WATER YEAR (WY)

MEAN	9.00	8.73	7.75	7.31	7.73	9.69	21.1	31.2	13.9	9.30	17.0	11.9
MAX	80.4	53.9	24.2	19.7	19.4	77.6	195	219	130	67.0	150	150
(WY)	1942	1942	1942	1992	1985	1987	1987	1941	1965	1941	1991	1991
MIN	.72	1.71	1.59	1.64	1.12	1.02	.32	.53	.23	.83	.78	.65
(WY)	1957	1935	1955	1957	1955	1967	1978	1967	1940	1963	1956	1956

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1930 - 1994
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ANNUAL TOTAL	5048.5		11319.6				
ANNUAL MEAN	13.8		31.0			12.9	
HIGHEST ANNUAL MEAN						52.9	1942
LOWEST ANNUAL MEAN						2.33	1978
HIGHEST DAILY MEAN	235	Jul 20	1080	May 19	1290		Sep 10 1991
LOWEST DAILY MEAN	1.9	Jul 30	1.5	Mar 18		.00	Aug 4 1945
ANNUAL SEVEN-DAY MINIMUM	3.0	Jul 8	2.5	Jul 4		.10	Jul 20 1939
INSTANTANEOUS PEAK FLOW			2890	May 19	a4050		Aug 17 1961
INSTANTANEOUS PEAK STAGE			8.31	May 19		b10.10	Aug 30 1936
INSTANTANEOUS LOW FLOW			.98	Jul 14			
ANNUAL RUNOFF (AC-FT)	10010		22450			9350	
10 PERCENT EXCEEDS	26		56			24	
50 PERCENT EXCEEDS	11		12			5.5	
90 PERCENT EXCEEDS	5.1		3.3			1.2	

e Estimated

a-From rating curve extended above 250 ft³/s on basis of slope-area measurements at gage heights 5.54 ft, 7.74 ft and 9.60 ft.

b-Site and datum then in use.

ARKANSAS RIVER BASIN

07221000 MORA RIVER NEAR SHOEMAKER, NM

LOCATION.--Lat 35°48'01", long 104°46'58", Mora County, Hydrologic Unit 11080004, in Mora Grant, on left bank 5.5 mi east of Shoemaker, 12.3 mi upstream from Pedros Creek, and at mile 39.4.

DRAINAGE AREA.--1,104 mi², of which 71 mi² is probably noncontributing.

PERIOD OF RECORD.--October 1914 to July 1915, October 1915 to August 1918, May 1919 to July 1924, September to November 1924, March to July 1925, June 1927 to current year. Prior to October 1930 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 1117: Drainage area. WSP 1281: 1931(M), 1933-1934(M), 1937(M), 1938(P), 1939-40(M), 1941-42(P). WSP 1731: 1921, 1928, 1951(M). WRD NM-75-1: 1974. WRD NM-78-1: 1977.

GAGE.--Water-stage recorder. Elevation of gage is 6,140 above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 10, 1934, at site 2,000 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 26,000 acres upstream from station. Off-channel lakes make it possible to divert and store water during non-irrigation season. Several observations of water temperature were made during the year. No flow at times some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of Sept. 29, 1904, and June 11, 1913, probably exceeded 30,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	37	44	30	e18	e40	22	257	673	30	59	300
2	19	39	41	32	e19	e37	46	272	649	23	105	326
3	18	40	36	32	e19	e38	53	221	656	19	368	204
4	19	40	34	33	e17	e28	44	213	743	16	126	203
5	19	36	28	30	e16	e23	45	189	558	13	78	178
6	19	35	34	30	e19	e20	64	164	481	12	113	353
7	17	33	31	e30	e20	e14	67	186	402	11	99	209
8	25	33	32	e32	e18	e13	84	243	348	9.8	79	171
9	21	33	29	31	e17	e12	70	265	319	10	52	146
10	18	33	34	37	e19	11	65	368	300	9.6	34	246
11	20	34	32	40	e15	11	77	891	e220	9.0	28	126
12	25	36	32	45	e14	13	90	725	e200	8.7	26	120
13	22	37	30	40	e14	12	96	673	e180	8.4	28	117
14	22	50	34	54	e15	12	105	645	e150	e8.0	108	126
15	18	52	44	54	e15	14	101	699	e130	e7.5	411	119
16	20	57	e34	56	e16	16	100	693	e105	e7.0	282	103
17	25	59	e32	38	e19	15	98	735	e88	e6.5	173	90
18	24	59	e32	33	e20	13	98	711	87	e6.0	106	88
19	21	59	e40	24	e24	13	107	1510	100	e5.5	75	91
20	20	54	e36	21	e22	15	114	2610	166	4.6	75	93
21	22	43	32	25	e21	12	115	1730	165	38	248	83
22	23	42	32	22	e21	11	107	1300	133	17	138	74
23	24	40	24	21	e22	9.9	173	1060	110	6.5	99	68
24	20	38	29	19	e21	8.5	252	871	84	5.3	71	64
25	19	36	34	22	e25	6.9	275	854	69	4.1	67	60
26	22	35	36	e23	e42	5.9	259	1290	55	4.0	66	54
27	23	36	38	e24	e28	6.7	224	2050	48	220	87	52
28	24	34	37	e25	e39	13	185	1360	44	241	86	54
29	27	36	33	e27	---	16	176	971	38	55	74	51
30	36	41	32	e28	---	20	239	822	36	280	90	48
31	38	---	32	e28	---	20	---	725	---	88	94	---
TOTAL	690	1237	1048	986	575	499.9	3551	25303	7337	1183.5	3545	4017
MEAN	22.3	41.2	33.8	31.8	20.5	16.1	118	816	245	38.2	114	134
MAX	38	59	44	56	42	40	275	2610	743	280	411	353
MIN	17	33	24	19	14	5.9	22	164	36	4.0	26	48
AC-FT	1370	2450	2080	1960	1140	992	7040	50190	14550	2350	7030	7970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1994, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1920	37.9	326	1942	.000	1957
1921	29.7	212	1942	.33	1957
1922	28.2	134	1924	.64	1957
1923	28.1	94.3	1924	.98	1957
1924	24.1	126	1987	.75	1957
1925	25.7	318	1987	.58	1955
1926	74.4	842	1942	.34	1955
1927	131	1437	1941	1.63	1954
1928	103	937	1921	.40	1954
1929	59.2	700	1921	.29	1974
1930	94.7	587	1961	.094	1964
1931	62.3	404	1991	.020	1954

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1920 - 1994
ANNUAL TOTAL	18663.0	49972.4	
ANNUAL MEAN	51.1	137	58.5
HIGHEST ANNUAL MEAN			302
LOWEST ANNUAL MEAN			2.65
HIGHEST DAILY MEAN	590	2610	6320
LOWEST DAILY MEAN	6.9	4.0	.00
ANNUAL SEVEN-DAY MINIMUM	7.6	6.4	.00
INSTANTANEOUS PEAK FLOW		3480	a15000
INSTANTANEOUS PEAK STAGE		6.97	12.79
INSTANTANEOUS LOW FLOW		3.7	
ANNUAL RUNOFF (AC-FT)	37020	99120	42410
10 PERCENT EXCEEDS	110	300	122
50 PERCENT EXCEEDS	35	38	16
90 PERCENT EXCEEDS	16	13	1.8

e Estimated

a-From rating curve extended above 2,800 ft³/s on basis of slope-area measurements at gage heights 10.09 ft and 12.79 ft.

ARKANSAS RIVER BASIN

07221500 CANADIAN RIVER NEAR SANCHEZ, NM

(Surveillance network station)

LOCATION: 11080003 on right bank 1 000 ft downstream from bridge on State Highway 419, 0.9 mi upstream from Lagartilla 777.0.

DRAINAGE AREA.--6,015 mi², of which 303 mi² is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1912 to December 1914, October 1935 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1177: Drainage area. WSP 1281: 1939, 1940(P), 1942, 1946. WSP 1731: 1956-57(M). WDR NM-82-1: 1965(M), 1979(M). The revised figures of discharge for September 1942, as published in WSP 1281, supersede those published in WSP 1311.

GAGE.--Water-stage recorder. Elevation of gage is 4,500 ft above National Geodetic Vertical Datum of 1929, from topographic map. See WSP 2121 for history of changes prior to November 1966.

REMARKS.--Water-discharge records good. Diversions for irrigation of about 56,000 acres upstream from station. U.S. Army Corps of Engineers satellite telemeter at station. No flow at times some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Sept. 29 or 30, 1904, probably exceeded 100,000 ft³/s, but is believed to have been less than the peak of June 18, 1965.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	62	72	76	52	65	185	677	1720	84	205	197
2	37	69	81	83	68	68	205	669	1820	72	434	332
3	34	69	83	80	63	70	241	674	1810	63	337	512
4	33	71	82	82	58	65	281	588	1750	54	563	436
5	32	73	76	86	68	58	260	540	1610	46	366	411
6	30	75	75	89	74	55	257	471	1330	40	259	409
7	29	72	67	96	74	52	270	464	1180	33	194	555
8	31	69	71	85	82	57	304	585	935	29	167	408
9	30	66	69	84	87	59	326	710	770	52	136	379
10	30	64	74	83	83	56	330	797	676	29	193	307
11	37	65	72	78	84	55	322	1450	586	32	216	584
12	35	67	78	71	78	66	334	1980	558	33	74	279
13	32	69	81	70	71	73	356	1960	497	28	54	225
14	33	79	76	77	68	72	367	2200	456	25	46	207
15	39	75	75	78	65	74	366	2050	395	24	58	238
16	36	87	63	88	62	70	348	1970	314	24	302	227
17	38	87	61	89	62	62	372	1880	235	24	376	198
18	36	95	63	81	64	62	379	1960	193	20	249	180
19	35	95	61	81	62	61	452	2170	176	19	170	161
20	43	94	64	82	62	60	572	3790	173	16	129	150
21	41	93	59	77	67	58	631	3450	209	15	110	144
22	41	89	68	75	65	58	639	2890	234	12	290	134
23	40	81	44	79	65	57	642	2470	215	39	271	125
24	43	75	66	82	63	56	688	2180	192	41	215	116
25	48	74	78	81	59	56	812	2010	172	42	184	109
26	49	73	67	84	56	68	891	2420	141	45	186	104
27	46	68	74	81	58	100	873	3910	119	40	171	100
28	45	68	75	87	62	133	782	3120	103	103	160	95
29	49	66	76	83	---	150	688	2380	98	322	156	93
30	51	62	78	77	---	146	645	2060	96	191	144	89
31	55	---	76	65	---	160	---	1860	---	292	164	---
TOTAL	1196	2252	2205	2510	1882	2302	13818	56335	18763	1889	6579	7504
MEAN	38.6	75.1	71.1	81.0	67.2	74.3	461	1817	625	60.9	212	250
MAX	55	95	83	96	87	160	891	3910	1820	322	563	584
MIN	29	62	44	65	52	52	185	464	96	12	46	89
AC-FT	2370	4470	4370	4980	3730	4570	27410	111700	37220	3750	13050	14880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1994, BY WATER YEAR (WY)

	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
MEAN	111	56.9	49.4	51.7	63.3	59.5	220	402	384	234	325	250
MAX	870	506	252	183	363	737	5573	4721	4260	1129	1173	4079
(WY)	1942	1942	1942	1943	1961	1987	1942	1941	1965	1914	1946	1942
MIN	.000	1.43	1.97	1.42	1.46	.74	.000	.000	.000	.000	8.39	.97
(WY)	1957	1957	1957	1957	1957	1957	1936	1967	1974	1964	1980	1956

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1913 - 1994
ANNUAL TOTAL	52942	117235	
ANNUAL MEAN	145	321	186
HIGHEST ANNUAL MEAN			1191
LOWEST ANNUAL MEAN			19.7
HIGHEST DAILY MEAN	1100	3910	50000
LOWEST DAILY MEAN	11	12	.00
ANNUAL SEVEN-DAY MINIMUM	23	19	.00
INSTANTANEOUS PEAK FLOW		4990	b145000
INSTANTANEOUS PEAK STAGE		10.19	a36.60
ANNUAL RUNOFF (AC-FT)	105000	232500	134800
10 PERCENT EXCEEDS	329	697	343
50 PERCENT EXCEEDS	81	82	41
90 PERCENT EXCEEDS	42	40	4.0

a-From floodmarks, present site and datum.

b-From rating curve extended above 91,000 ft³/s on basis of slope-area measurement of peak flow.

ARKANSAS RIVER BASIN

07221500 CANADIAN RIVER NEAR SANCHEZ, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
NOV 1993												
30...	1300	64	1350	8.4	9.0	5.0	0.90	642	14.6	137	16	K1
JAN 1994												
12...	1300	14	1820	8.4	10.0	3.0	1.5	647	12.0	106	--	--
MAR												
30...	1400	144	1820	8.5	10.0	7.0	24	652	10.3	100	--	K25
MAY												
26...	1630	2250	382	8.4	17.0	20.0	68	642	7.8	102	53	400
JUL												
12...	1300	35	1110	8.2	32.0	30.0	40	648	6.6	104	11	510
SEP												
07...	1330	486	652	8.2	28.0	25.0	200	648	7.3	105	52	2700

DATE	STREP- TOCOCOI FECAL KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARE DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)
NOV 1993												
30...	K1	500	300	100	60	97	2	2.4	205	20	202	188
JAN 1994												
12...	--	600	390	120	73	120	2	2.4	262	0	215	202
MAR												
30...	--	730	530	130	98	150	2	3.6	200	20	198	192
MAY												
26...	700	160	45	43	13	17	0.6	1.9	142	0	116	120
JUL												
12...	K72	410	260	83	48	84	2	3.6	179	0	--	150
SEP												
07...	2400	260	55	64	23	37	1	3.8	244	0	194	167

DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
NOV 1993											
30...	520	20	0.40	11	950	933	--	<0.010	<0.050	0.030	<0.20
JAN 1994											
12...	620	23	0.40	11	1160	1100	--	0.010	<0.050	0.030	<0.20
MAR											
30...	830	30	0.50	6.3	1500	1370	0.055	0.030	0.085	0.040	0.40
MAY											
26...	70	3.8	0.30	9.9	207	230	--	<0.010	0.085	0.030	0.70
JUL											
12...	430	18	0.40	12	786	769	--	<0.010	--	0.020	0.20
SEP											
07...	150	8.2	0.30	12	445	419	--	0.030	--	0.030	1.0

ARKANSAS RIVER BASIN
07221500 CANADIAN RIVER NEAR SANCHEZ, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIIUM, DIS- SOLVED (UG/L AS BA) (01005)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)
NOV 1993											
30...	<0.010	<0.010	<0.010	1.9	<10	59	<3	6	42	6	<10
JAN 1994											
12...	0.020	<0.010	<0.010	--	--	--	--	--	--	--	--
MAR											
30...	0.040	<0.010	<0.010	--	--	--	--	--	--	--	--
MAY											
26...	0.160	0.010	0.010	18	40	51	<3	46	4	2	<10
JUL											
12...	<0.010	<0.010	<0.010	4.3	<10	220	<3	5	32	8	<10
SEP											
07...	0.260	0.060	0.010	7.2	80	150	<3	59	18	5	<10

DATE	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	NITRO- GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO- GEN, NH4 TOTAL TOT IN BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOS- PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD) (01028)
NOV 1993											
30...	<1	<1	<1.0	1500	6	<2.0	1.0	650	860	2	1
JAN 1994											
12...	--	--	--	--	--	--	--	--	--	--	--
MAR											
30...	--	--	--	--	--	--	--	--	--	--	--
MAY											
26...	<1	<1	<1.0	380	<6	--	--	--	--	--	--
JUL											
12...	<1	<1	<1.0	1200	<6	--	--	--	--	--	--
SEP											
07...	2	<2	<1.0	730	7	--	--	--	--	--	--

DATE	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB) (01052)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN) (01093)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN 0.62 MM (70331)
NOV 1993											
30...	10	10	10	8800	10	376	<0.10	40	21	3.6	57
JAN 1994											
12...	--	--	--	--	--	--	--	--	16	0.59	80
MAR											
30...	--	--	--	--	--	--	--	--	138	54	96
MAY											
26...	--	--	--	--	--	--	--	--	810	4920	74
JUL											
12...	--	--	--	--	--	--	--	--	82	7.7	96
SEP											
07...	--	--	--	--	--	--	--	--	6590	8650	99

ARKANSAS RIVER BASIN

07222500 CONCHAS RIVER AT VARIADERO, NM

LOCATION.--Lat 35°24'10", long 104°26'35", in NE¼ sec.36, T.14 N., R.23 E., San Miguel County, Hydrologic Unit 11080005, on left bank 1.5 mi northeast of Variadero, 14 mi west of Conchas Dam, and at mile 15.0.

DRAINAGE AREA.--523 mi², of which 130 mi² is probably noncontributing.

PERIOD OF RECORD.--October 1936 to current year.

REVISED RECORDS.--WSP 1281: 1937-39, 1941-47.

GAGE.--Water-stage recorder. Elevation of gage is 4,390 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Mar. 30, 1942, at site 1.5 mi upstream at different datum. Mar. 30, 1942 to May 18, 1950, at present site at datum 0.5 ft higher.

REMARKS.--Records fair. Diversions for irrigation of about 300 acres upstream from station. Several observations of water temperature were made during the year. No flow many days each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.02	e.00	e.00	.01	.00	.64	.00	.00	.00
2	.00	.00	.00	.02	e.00	e.00	.00	.00	1.7	.00	.13	.00
3	.00	.00	.00	.02	e.00	e.00	.00	.00	279	.00	9.5	.00
4	.00	.00	.00	.02	e.00	e.00	.00	.00	241	.00	2.5	.00
5	.00	.00	.00	.01	e.00	e.00	.00	.00	19	.00	.56	.00
6	.00	.00	.00	.01	e.00	e.00	.00	.00	4.4	.00	.15	.00
7	.00	.00	.00	.01	e.00	e.00	.00	.00	1.8	.00	.06	.00
8	.00	.00	.00	.01	e.00	e.06	.00	.00	.96	.00	.03	.00
9	.00	.00	.00	.01	e.00	e.04	.00	.00	.50	.00	.02	.00
10	.00	.00	.00	.01	e.00	.02	.00	.00	.32	.00	.00	.00
11	.00	.00	.00	.01	e.00	.00	.00	.09	.19	279	23	.00
12	.00	.00	.00	e.01	e.00	.08	.00	.00	.11	27	1.8	.00
13	.00	.00	.00	e.00	e.00	.05	.00	.21	.06	5.0	.35	.00
14	.00	.00	.00	e.00	e.00	.01	.00	.16	.02	4.1	.14	.00
15	.00	.00	.00	e.00	e.00	.00	.00	.00	.00	1.5	.07	.00
16	.00	.00	.04	e.00	e.00	.00	.00	.00	.00	1.3	.04	.00
17	.00	.00	.02	e.01	e.00	.00	.00	.00	.00	.49	.02	.00
18	.00	.00	.02	e.00	e.00	.00	.00	.00	.00	.14	.01	.00
19	.00	.00	.02	e.00	e.00	.00	.00	.00	.63	.07	.00	.00
20	.00	.00	.02	e.00	e.00	.00	.00	.00	12	.03	.00	.00
21	.00	.00	.01	e.00	e.00	.00	.00	.00	2.6	148	.00	.00
22	.00	.00	.01	e.00	e.00	.00	.00	58	1.0	11	.00	.00
23	.00	.00	.03	e.00	e.00	.00	.00	95	.38	2.4	.00	.00
24	.00	.00	.01	e.00	e.00	.00	.00	10	.14	.90	.00	.00
25	.00	.00	.01	e.00	e.00	.00	.00	9.5	.05	.33	.00	.00
26	.00	.00	.01	e.00	e.00	.00	.00	103	.00	.13	.00	.00
27	.00	.00	.01	e.00	e.00	.02	.00	163	.00	.05	.00	.00
28	.00	.00	.01	e.00	e.00	.02	.00	17	.00	.02	.00	.00
29	.00	.00	.01	e.01	---	.00	.00	3.7	.00	.00	.00	.00
30	.00	.00	.01	e.02	---	.00	.00	2.7	.00	.00	.00	.00
31	.00	---	.01	e.00	---	.00	---	1.3	---	.00	.00	---
TOTAL	0.00	0.00	0.25	0.20	0.00	0.30	0.01	463.66	566.50	481.46	38.38	0.00
MEAN	.000	.000	.008	.006	.000	.010	.000	15.0	18.9	15.5	1.24	.000
MAX	.00	.00	.04	.02	.00	.08	.01	163	279	279	23	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.5	.4	.00	.6	.02	920	1120	955	76	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1994, BY WATER YEAR (WY)

	MEAN	8.51	1.67	.88	.72	.77	1.27	2.98	12.1	25.5	30.1	33.4	36.9
MAX	90.5	31.6	11.0	8.65	8.26	22.0	63.8	302	503	144	154	549	
(WY)	1942	1987	1943	1943	1987	1987	1942	1941	1937	1972	1977	1941	
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.16	.000	
(WY)	1937	1937	1937	1937	1953	1949	1938	1938	1945	1980	1980	1948	

SUMMARY STATISTICS FOR 1993 CALENDAR YEAR FOR 1994 WATER YEAR WATER YEARS 1937 - 1994

	ANNUAL TOTAL	1807.22	1550.76	
ANNUAL MEAN		4.95	4.25	13.0
HIGHEST ANNUAL MEAN				108
LOWEST ANNUAL MEAN				.18
HIGHEST DAILY MEAN	1000	Aug 4	279	Jun 3
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1
INSTANTANEOUS PEAK FLOW			1900	Jul 11
INSTANTANEOUS PEAK STAGE			5.02	Jul 11
ANNUAL RUNOFF (AC-FT)	3580		3080	
10 PERCENT EXCEEDS	.74		.59	8.8
50 PERCENT EXCEEDS	.00		.00	.11
90 PERCENT EXCEEDS	.00		.00	.00

a Estimated

a-Present datum.

b-From rating curve extended above 760 ft/s on basis of slope-area measurements at gage heights 12.5 ft and 19.96, present datum.

ARKANSAS RIVER BASIN

07223500 CONCHAS LAKE AT CONCHAS DAM, NM

LOCATION.--Lat 35°24'10", long 104°11'25", San Miguel County, Hydrologic Unit 11080003, in Pablo Montoya Grant, stilling well within concrete portion of Conchas Dam on Canadian River, 24 mi north of Newkirk, and at mile 74.0.

PERIOD OF RECORD.--December 1938 to September 1965 (monthend contents only), October 1965 to current year. Prior to October 1965, published as Conchas Reservoir near Conchas Dam.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Lake is formed by dam consisting of concrete main section and earthfill wings, completed Sept. 15, 1939; storage began Dec. 29, 1938. Capacity, 330,100 acre-ft between elevations 4,060.0 ft and 4,201.0 ft, crest of 300 ft ungated service spillway. Inactive storage, 70,490 acre-ft, at elevation 4,155.0 ft. Lake usually not drawn below elevation, 4,157.35 ft, sill of irrigation outlet, capacity, 77,790 acre-ft, except for minor sluicing; at times irrigation water is pumped into Conchas Canal. Capacity of 198,800 acre-ft between elevations 4,201.0 ft, crest of 300 ft ungated service spillway, and 4,218.0 ft, crest of 3,000 ft ungated emergency spillway, acts as detention storage in the control of floods. Figures given herein represent total contents. Lake is used for irrigation, flood control, and recreation. Diversions upstream from station for irrigation of about 57,000 acres. Direct diversions through Conchas Dam to Bell Ranch Canal and Conchas Canal (stations 07223000, 07223300) irrigate about 36,000 acres near Tucumcari, and on Bell Ranch. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Records provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 479,600 acre-ft, Apr. 24, 1942, elevation, 4,208.41 ft; minimum after initial filling, 78,080 acre-ft, Sept. 18, 1976, elevation, 4,157.44 ft; minimum elevation, 4,155.80 ft, Sept. 24, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 317,760 acre-ft, May 23, elevation, 4,201.21 ft; minimum, 245,260 acre-ft, Nov. 8-11, elevation, 4,192.91 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

(Based on Survey by U.S. Army Corps of Engineers in 1970)

4,180	160,600
4,190	223,400
4,200	306,200
4,210	412,100

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	256780	245880	246120	247300	249690	250960	253050	266460	315830	306710	285680	278910
2	256210	246040	246200	247380	249690	251120	252890	267550	315930	305860	285860	278910
3	255640	245960	246200	247540	249850	251120	252890	268390	314770	305210	286750	279260
4	255240	245730	246200	247540	249850	251120	253050	269320	314970	304270	287560	279790
5	254750	245730	246200	247540	249850	251200	253210	269990	315350	303250	288000	279960
6	254180	245730	246350	247700	249920	251280	253290	270500	315930	302410	288180	280660
7	253540	245730	246350	247700	249920	251280	253290	271010	316700	301300	288360	281620
8	252730	245260	246350	247780	249920	252410	253290	271690	316510	300650	288000	282150
9	252250	245260	246350	247780	249920	252410	253380	272370	316120	299640	287830	282240
10	251600	245260	246350	247940	250000	252570	253860	274770	315930	298990	287560	282330
11	251200	245260	246350	248090	250000	252650	254180	276840	315350	298530	287560	282500
12	250640	245490	246670	248250	250080	253130	254590	279790	315930	297890	287020	282500
13	250320	245650	246670	248330	250080	253210	254750	283290	315930	297340	286480	282330
14	249690	245730	246670	248410	250320	253290	254990	287020	315350	296700	285770	282500
15	249210	245730	246830	248490	250320	253460	255320	290610	314770	295960	285240	282150
16	248570	245730	246830	248570	250480	253540	255480	294050	314390	295230	284890	281970
17	248250	245800	246830	248650	250480	253540	255810	296970	314200	294500	284710	281620
18	247700	245800	246830	248730	250480	253620	255890	300650	313810	293770	284360	281270
19	247300	245880	246830	248730	250480	253620	256210	303900	313240	293050	283820	280750
20	246630	245860	246910	248690	250560	253620	256620	309820	312670	292330	283290	280400
21	246830	245880	246910	248890	250640	253700	257850	315350	312290	291870	282940	279700
22	246670	245880	246990	249050	250800	253700	257850	317280	312480	290970	282410	279350
23	246670	245880	246990	249050	250800	253700	258910	317760	312380	289980	282240	278740
24	246510	245880	246990	249130	250800	253700	259490	315160	312000	289440	281970	278310
25	246350	245880	246990	249130	250800	253700	260230	316510	311430	288540	281360	277790
26	246350	245880	246990	249210	250800	253860	261050	317570	310670	287650	281010	277270
27	246350	246040	247070	249290	250800	254020	262540	315730	309910	286930	280660	276750
28	246200	246040	247140	249370	250880	253860	263370	316120	308970	286580	280140	276320
29	246040	246040	247220	249530	---	253540	264370	315730	308210	286130	279610	275710
30	246040	246040	247220	249600	---	253290	265290	315930	307270	285950	279090	275020
31	246040	---	247300	249690	---	253130	---	315730	---	285680	278740	---
MAX	256780	246040	247300	249690	250880	254020	265290	317760	316700	306710	288360	282500
MIN	246040	245260	246120	247300	249690	250960	252890	266460	307270	285680	278740	275020
(†)	4193.01	4193.01	4193.17	4193.47	4193.62	4193.90	4195.38	4201.0	4200.11	4197.75	4196.96	4196.53
(††)	-11480	0	+1260	+2390	+1190	+2250	+12160	+50440	-8460	-21590	-6940	-3720
CAL YR 1993	MAX 278220	MIN 245260	AC-FT (††)	-6110								
WTR YR 1994	MAX 317760	MIN 245260	AC-FT (††)	+17500								

(†) ELEVATION, IN FEET, AT END OF MONTH
(††) CHANGE IN CONTENTS, IN ACRE-FEET

ARKANSAS RIVER BASIN

07226500 UTE CREEK NEAR LOGAN, NM

LOCATION---Lat 35°26'18", long 103°31'31", in NW¼SE¼ sec.15, T.14 N., R.32 E., Harding County, Hydrologic Unit 11090007, on right bank 1.9 mi downstream from Alamosa Creek, 4.5 mi upstream from State Road 155, 4.7 mi upstream from high-water line of Ute Reservoir, 8.2 mi northwest of Logan, and at mile 10.0.

DRAINAGE AREA.--2,060 mi², of which 617 mi² is probably noncontributing.

PERIOD OF RECORD.--January 1912 to May 1914 (gage heights and discharge measurements only), January 1942 to current year. Records of discharge for August 1904 to June 1906, April 1909 to December 1911, published in WSP 307, are unreliable and should not be used.

REVISED RECORDS.--WSP 1281: 1942-48, 1950, 1951(P), WDR NM-81-1: 1965(P), 1967-68(M), 1969(P), 1971(M), 1972, 1975(M), 1977, 1979. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Elevation of gage is 3,820 ft above National Geodetic Vertical Datum of 1929, from topographic map. See WSP 2121 for history of changes prior to Oct. 1, 1964.

REMARKS.--Records poor. Diversions for irrigation of a few hundred acres upstream from station. No flow most of time.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 1, 1914, reached a stage of 22.95 ft site and datum then in use. Another major flood reached a stage of 16.0 ft, 1942 datum, sometime in 1941, from information furnished by U.S. Bureau of Reclamation; discharge, about 70,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	e20
2	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	e.00
3	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	e.00
4	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	e.00
5	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	e.00
6	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	e.00
7	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	e.00
8	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	e.00
9	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e420	e.00	e.00
10	.00	.00	.00	.00	.00	.00	.00	58	e.00	e10	e.00	e50
11	.00	.00	.00	.00	.00	.00	.00	174	e.00	e.00	e.00	e7.0
12	.00	.00	.00	.00	.00	.00	.00	27	e.00	e.00	e.00	e.00
13	.00	.00	.00	.00	.00	.00	.00	15	e.00	e.00	e.00	e.00
14	.00	.00	.00	.00	.00	.00	.00	9.7	e.00	e.00	e.00	e.00
15	.00	.00	.00	.00	.00	.05	.00	e1.0	e.00	e.00	e.00	e.00
16	.00	.00	.00	.00	.00	.05	.00	.00	e.00	e.00	e.00	e.00
17	.00	.00	.00	.00	.00	.01	.00	.00	e.00	e.00	e.00	e.00
18	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	e.00
19	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	e.00	e.00
20	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	e.00	e.00
21	.00	.00	.00	.00	.00	.00	.00	e110	e10	e.00	e.00	e.00
22	.00	.00	.00	.00	.00	.00	37	84	e4.0	e.00	e.00	e.00
23	.00	.00	.00	.00	.00	.00	40	e40	e.00	e.00	e.00	e.00
24	.00	.00	.00	.00	.00	.00	1.2	e20	e.00	e.00	e.00	e.00
25	.00	.00	.00	.00	.00	.00	.00	e40	e.00	e.00	e.00	e.00
26	.00	.00	.00	.00	.00	.00	.00	396	e.00	e.00	e.00	e.00
27	.00	.00	.00	.00	.00	.00	.00	270	e.00	e90	e.00	e.00
28	.00	.00	.00	.00	.00	.00	.00	90	e.00	e14	e.00	e.00
29	.00	.00	.00	.00	.00	.00	.00	e20	e.00	e1.0	e.00	e.00
30	.00	.00	.00	.00	---	.00	.00	.00	e.00	e.00	e126	e.00
31	.00	---	.00	.00	---	.00	---	.00	---	e.00	e3.6	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.11	78.20	1354.70	14.00	535.00	129.60	77.00
MEAN	.0000	.0000	.0000	.0000	.0000	.0004	2.61	43.7	.47	17.3	4.18	2.57
MAX	.00	.00	.00	.00	.00	.05	.40	396	10	420	126	50
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.2	155	2690	28	1060	257	153

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1994, BY WATER YEAR (WY)

MEAN	10.8	3.57	1.97	2.72	2.25	1.90	11.3	39.7	29.8	54.9	74.0	31.4
MAX	139	92.5	39.9	39.7	26.3	23.7	459	351	191	317	520	261
(WY)	1955	1979	1943	1942	1942	1948	1942	1955	1965	1950	1981	1969
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.027	.000
(WY)	1945	1946	1946	1946	1946	1946	1943	1945	1953	1946	1983	1948

SUMMARY STATISTICS

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1942 - 1994	
ANNUAL TOTAL	4168.61		2188.61			
ANNUAL MEAN	11.4		6.00		21.1	
HIGHEST ANNUAL MEAN					57.2	
LOWEST ANNUAL MEAN					.084	
HIGHEST DAILY MEAN	1050	Jun 19	420	Jul 9	7420	May 28 1946
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Jul 17 1942
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Mar 18 1943
INSTANTANEOUS PEAK FLOW			2540	Jul 9	a24500	May 28 1946
INSTANTANEOUS PEAK STAGE			4.10	Jul 9	b9.94	Aug 11 1981
ANNUAL RUNOFF (AC-FT)	8270		4340		15280	
10 PERCENT EXCEEDS	.00		.00		20	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated

a-From rating curve extended above 7,700 ft³/s on basis of slope-area measurements at gage heights 5.2 ft and 7.2 ft.

b-Site and datum then in use.

ARKANSAS RIVER BASIN

07226800 UTE RESERVOIR NEAR LOGAN, NM

LOCATION.--Lat 35°20'35", long 103°26'37", in NW¼ sec.21, T.13 N., R.33 E., Quay County, Hydrologic Unit 11080006, on face of Ute Dam on Canadian River, 2.5 mi southwest of Logan. 3.5 mi downstream from Ute Creek. and at mila 0/3.1.

DRAINAGE AREA.--11,110 mi², of which 1,110 mi² is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1963 to September 1965 (monthend contents only), October 1965 to current year.

REVISED RECORDS.--WDR NM-78-1: 1977.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Interstate Stream Commission). Prior to Feb. 25, 1974, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by an earthfill dam 132 ft high above streambed, 2,050 ft long; an earthen dike section on north bank of Canadian River 3,640 ft long with a maximum height of 38 ft; a concrete labyrinth spillway section with an equivalent weir length of 3,360 ft is located upstream of an 840 ft long ogee section between the main embankment and dike. Original construction completed in May 1963, storage began Dec. 13, 1962; modification project to construct labyrinth spillway and increase height of dam and dike completed April 1984. Capacity, 244,960 acre-ft at elevation 3,787.0 ft, crest of labyrinth spillway from capacity table dated November 1992. Original capacity at elevation 3,787.0 ft was 272,770 acre-ft. Top of dam is at elevation 3,812.0 ft. Dead storage, 10,780 acre-ft at elevation 3,725.0 ft, sill of outlet intake tower; inactive pool of 25,070 acre-ft between elevations 3,725.0 and 3,741.6 ft, maintained for sediment control and fish and wildlife. Figures given herein represent total contents. Reservoir storage is for municipal and industrial uses, recreational purposes, sediment control and some incidental flood control. Diversions upstream from station for irrigation about 90,000 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 250,000 acre-ft, May 20, 21, 1987, elevation, 3,787.40 ft; minimum since reservoir first filled in September 1965, 31,320 acre-ft, June 6, 1984, elevation, 3,739.10 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 245,930 acre-ft, June 12, elevation, 3,787.12 ft; minimum, 178,460 acre-ft, Sept. 30, elevation, 3,777.77 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

(Based on survey by U. S. Bureau of Reclamation and New Mexico Interstate Stream Commission 1992)

3,744	41,030	3,780	193,100
3,760	88,760	3,788	253,100

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202940	200200	199030	197930	196770	196430	196290	191400	223840	231950	210920	194850
2	202590	199920	198690	197930	196910	196360	196080	190670	226950	231720	210850	194100
3	202660	200410	198620	197930	196840	196360	196220	190270	229620	230710	210200	193620
4	202740	199720	198960	197930	197180	196290	196020	189270	231950	229540	209550	192400
5	202520	199720	198350	198140	197110	196430	195740	188660	234980	228390	209620	191600
6	202310	199650	198620	197730	197040	196360	195650	187930	239230	227940	209980	191340
7	202170	199510	198620	197730	197160	195740	195740	187130	240500	226880	210200	190800
8	201680	199440	198550	197590	196630	196360	195670	186530	242170	225970	209980	190000
9	201680	199370	198480	197800	196560	196430	195610	185610	242810	226120	210420	189330
10	201400	199580	198350	197800	196560	196500	195540	186390	244000	225210	210490	188800
11	201330	199440	198410	197590	196840	196500	195470	188390	245360	224750	210770	188060
12	201470	199370	199030	197660	196560	196630	195610	188660	245930	223840	210850	187130
13	201250	199580	198350	197660	196630	196970	194850	188200	245770	222930	210770	186460
14	201400	199310	198350	197730	196700	197110	194300	187600	245040	222330	210920	185480
15	201050	199440	198210	197390	196630	197110	194300	186860	244080	221420	210850	184700
16	200830	199510	198410	197590	196560	197390	194230	186200	242650	220760	207450	183980
17	200970	199510	198280	197390	196700	197250	194170	185480	242090	220010	207380	183000
18	200970	199440	198410	197520	196970	197180	194230	184760	241690	218980	206880	182740
19	201250	199170	198140	197390	196700	197180	193960	183910	241060	218460	204700	181500
20	201190	199240	198140	197390	196560	196910	194170	183520	240580	217130	203720	180710
21	201120	199170	198140	197320	196360	197040	194230	183000	240020	216530	202870	179170
22	200970	199510	198140	197460	196500	197110	194920	182410	239230	215570	201890	179100
23	200900	199030	197870	197590	196630	196630	195470	182740	238350	215280	201050	179040
24	200760	198820	198000	197590	196560	196560	195810	183260	237480	214240	199990	178970
25	200760	198690	198000	197180	196290	196500	195610	184890	236850	213520	199310	178910
26	200620	198890	198000	196970	196500	196430	194920	189730	236460	212870	198690	178720
27	200550	198890	197930	197040	196630	196360	194230	187000	235370	213090	197930	178590
28	200480	198890	197930	197110	196430	196360	193270	200830	234510	213090	197040	178780
29	200130	198890	198000	196970	---	196220	192740	209190	234050	212290	195950	178590
30	200200	198760	198140	196770	---	196220	192000	215570	232730	212000	195950	178460
31	200270	---	197930	196840	---	196220	---	220010	---	211720	195190	---
MAX	202940	200410	199030	198140	197180	197390	196290	220010	245930	231950	210920	194850
MIN	200130	198690	197870	196770	196290	195740	192000	182410	223840	211720	195190	178460
(†)	3781.04	3780.82	3780.70	3780.54	3780.48	3780.45	3779.83	3783.78	3785.45	3782.65	3780.30	3777.77
(††)	-3030	-1510	-830	-1090	-410	-210	-4220	+28010	+12720	-21010	-16530	-16730

CAL YR 1993 MAX 231560 MIN 197870 (††) -26430
WTR YR 1994 MAX 245930 MIN 178460 (††) -24840

(†) ELEVATION, IN FEET, AT END OF MONTH

(††) CHANGE IN CONTENTS, IN ACRE-FEET

ARKANSAS RIVER BASIN

07226800 UTE RESERVOIR NEAR LOGAN, NM -- Continued

WATER-QUALITY RECORDS

LOCATION.--Samples collected in Ute Reservoir impounded by Ute Dam on the Canadian River.

PERIOD OF RECORD.--Water years 1963 to current year.

REMARKS.--Samples for chemical analyses are collected annually at Site B which is located 0.6 mi upstream from Ute Dam. Samples are collected 5 feet above the bottom of the reservoir.

07226560 - UTE RE AT SITE B, 0.6 MILES AB UTE DAM, NM (LAT 35°20'32" LONG 103°27'16")

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	RESER- VOIR DEPTH (FEET) (72025)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
AUG 1994												
24...	0945	1.00	75.0	1100	8.5	--	24.5	663	7.3	101	--	--
24...	0947	5.00	75.0	--	--	--	24.5	663	6.8	--	--	--
24...	0948	10.0	75.0	--	--	--	24.5	663	6.2	--	--	--
24...	0949	15.0	75.0	--	--	--	24.0	663	5.9	--	--	--
24...	0950	20.0	75.0	--	--	--	24.0	663	5.2	--	--	--
24...	0951	25.0	75.0	--	--	--	24.0	663	4.7	--	--	--
24...	0952	30.0	75.0	--	--	--	24.0	663	4.5	--	--	--
24...	0953	35.0	75.0	1100	8.3	--	23.5	663	4.2	57	--	--
24...	0954	40.0	75.0	--	--	--	23.5	663	3.8	--	--	--
24...	0955	45.0	75.0	--	--	--	22.0	663	0.5	--	--	--
24...	0956	50.0	75.0	--	--	--	21.0	663	0.5	--	--	--
24...	0957	55.0	75.0	--	--	--	20.0	663	0.5	--	--	--
24...	0958	60.0	75.0	--	--	--	19.0	663	0.7	--	--	--
24...	0959	65.0	75.0	--	--	--	18.0	663	0.8	--	--	--
24...	1000	70.0	75.0	1100	7.9	26.0	17.5	663	1.0	12	15	K1

DATE	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD CO3 (00452)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LITY LAB AS CACO3 (90410)
AUG 1994												
24...	K13	270	75	50	35	130	3	5.5	237	0	194	199

DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHOS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
AUG 1994												
24...	290	46	0.60	5.1	679	<0.010	<0.050	0.130	0.40	<0.010	<0.010	4.6

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)
AUG 1994											
24...	4	4	180	<1	<1.0	<1	<1	<1	<1	75	<1

ARKANSAS RIVER BASIN

07226800 UTE RESERVOIR NEAR LOGAN, NM -- Continued

WATER-QUALITY RECORDS

07226560 - UTE RE AT SITE B, 0.6 MILES AB UTE DAM, NM (LAT 35°20'32" LONG 103°27'16")

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS AS NAT U (UG/L) (75986)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)
AUG 1994 24...	<1	<0.10	0.1	<1	<1	<10	5	4.5	4.6	3.4	3.6
DATE	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ Y-90) (80050)	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L) (75988)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	NITRO- GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO- GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)
AUG 1994 24...	11	2.5	8.4	1.9	0.16	0.030	5.4	<1.0	3.0	18	1500
DATE	PHOS- PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD) (01028)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB) (01052)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN) (01093)
AUG 1994 24...	530	4	<1	2	<5	1	2100	<10	83	0.02	5

ARKANSAS RIVER BASIN

07227000 CANADIAN RIVER AT LOGAN, NM

LOCATION.--Lat 35°21'25", long 103°25'03", in NE¼ sec.15, T.13 N., R.33 E., Quay County, Hydrologic Unit 11080006, on left bank 1,110 ft upstream from bridge on U.S. Highway 54, 0.7 mi south of Logan, 1.4 mi upstream from Chicago, Rock Island & Pacific Railroad Co. bridge, 2.0 mi downstream from Ute Dam, 4.3 mi upstream from Revuelto Creek, and at mile 672.0.

DRAINAGE AREA.--11,141 mi², of which 1,110 mi² is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1904 to November 1905 (gage heights and discharge measurements only), December 1908 to September 1909, February 1910, April to July 1910, August 1910 to September 1911 (gage heights and discharge measurements only), October 1911 to May 1914, January to May 1924, September 1924 to July 1925, January 1927 to April 1934, August 1934 to current year. Monthly discharge only for some periods, published in WSP 1311. Records for December 1909, January 1910, and May to July 1934, published in WSP 267, 287, and 762 are unreliable and should not be used. Published as "South Canadian River" June to September 1904.

REVISED RECORDS.--WSP 1087: 1935-36. WSP 1117: Drainage area. WSP 1281: 1912, 1932(M), 1934, 1945-47, 1949-50. WSP 1311: 1931(M). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 3,667.1 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1987 same site at datum 1.0 ft higher. See WSP 1311 or 1731 for history of changes prior to Oct. 1, 1934.

REMARKS.--Water-discharge records fair. Flow regulated by Conchas Lake, 45 mi upstream (station 07223500) and Ute Reservoir, 2 mi upstream (station 07226800). Diversions for irrigation of about 90,000 acres upstream from station. Several observations of water temperature were made during the year. No flow at times prior to completion of Ute Dam.

AVERAGE DISCHARGE.--15 years (water years 1909, 1912-13, 1927-38), 392 ft³/s, 284,000 acre-ft/yr, prior to completion of Conchas dam. 24 years (water years 1939-62), 257 ft³/s, 186,200 acre-ft/yr, prior to completion of Ute Dam.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 278,000 ft³/s, Sept. 30, 1904, gage height, about 36.5 ft, site and datum used in 1909, from rating curve extended above 14,000 ft³/s, from Ninth Biennial Report of New Mexico State Engineer.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	3.9	3.9	3.6	4.0	4.0	8.9	356	299	326	333	334
2	4.6	3.7	3.9	3.7	4.0	4.0	8.7	355	272	326	334	332
3	4.6	4.0	3.8	3.7	4.0	4.0	8.6	355	271	325	337	331
4	4.7	3.9	3.9	3.7	4.1	4.0	8.7	355	270	324	339	329
5	4.6	3.9	3.9	3.7	4.0	4.0	8.4	356	269	324	132	328
6	3.7	3.9	3.9	3.6	4.1	4.0	8.6	357	270	324	8.7	328
7	3.7	4.0	3.9	3.5	4.0	4.0	8.7	357	267	324	5.6	308
8	3.7	4.0	3.8	3.8	4.6	4.6	8.3	359	120	324	4.6	311
9	3.7	3.9	3.4	3.9	5.0	4.8	5.7	360	115	326	4.0	311
10	3.8	4.0	2.6	3.9	4.3	4.4	4.0	366	116	325	3.7	309
11	3.7	4.0	2.3	3.9	4.0	4.2	4.3	361	158	325	3.5	305
12	3.8	4.1	2.3	3.7	3.9	4.3	119	359	221	325	3.4	316
13	3.9	3.8	2.3	3.6	3.9	4.6	332	360	285	326	3.3	320
14	3.9	4.1	2.3	3.7	3.9	4.2	240	359	493	326	3.3	320
15	3.9	4.0	2.4	3.9	3.9	4.0	12	359	470	326	3.3	320
16	3.9	4.1	2.4	3.9	3.9	4.0	7.9	359	439	327	253	321
17	3.9	3.8	2.4	3.9	3.9	4.1	5.7	360	324	327	350	322
18	3.9	3.9	2.5	3.9	4.0	4.1	4.5	362	319	327	352	322
19	4.4	3.7	2.6	12	4.0	4.0	3.9	362	318	328	353	322
20	4.1	3.7	2.6	6.5	3.9	4.0	3.7	361	318	328	352	323
21	3.9	3.9	2.6	4.5	3.9	4.0	3.5	362	324	330	351	324
22	3.9	3.9	2.7	3.9	4.0	4.0	3.9	362	337	331	351	78
23	3.6	3.7	2.8	3.7	4.2	4.0	6.1	362	329	333	350	8.7
24	3.8	3.5	2.9	3.7	4.1	4.0	4.3	362	327	325	347	6.0
25	3.6	3.7	3.0	3.8	4.0	4.1	3.5	367	327	320	345	4.8
26	3.7	3.7	3.1	4.0	4.0	4.2	166	368	328	322	344	4.3
27	3.8	3.8	4.4	3.8	4.0	4.3	354	352	328	324	342	4.2
28	3.8	3.8	3.7	3.8	4.0	5.5	357	346	328	325	341	3.9
29	3.9	3.8	3.4	4.0	---	10	358	347	327	327	340	3.9
30	4.0	3.9	3.4	4.0	---	9.2	356	349	327	329	345	3.8
31	3.9	---	3.4	4.0	---	8.9	---	333	---	331	336	---
TOTAL	123.9	116.1	96.5	129.3	113.6	145.5	2423.9	11088	8896	10110	6970.4	6853.6
MEAN	4.00	3.87	3.11	4.17	4.06	4.69	80.8	358	297	326	225	228
MAX	5.5	4.1	4.4	12	5.0	10	358	368	493	333	353	334
MIN	3.6	3.5	2.3	3.5	3.9	4.0	3.5	333	115	320	3.3	3.8
AC-FT	246	230	191	256	225	289	4810	21990	17650	20050	13830	13590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1994, BY WATER YEAR (WY)

	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
MEAN	32.9	27.7	7.12	7.83	9.84	3.14	17.9	37.8	55.0	77.6	87.8	96.2																				
MAX	325	287	84.1	62.7	174	11.4	239	767	575	608	720	838																				
(WY)	1966	1983	1983	1992	1980	1983	1987	1987	1969	1982	1981	1969																				
MIN	1.30	1.19	1.24	.86	1.13	.63	.26	.64	.62	.65	1.19	1.36																				
(WY)	1964	1984	1984	1963	1987	1963	1963	1963	1963	1963	1963	1983																				

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1963 - 1994
ANNUAL TOTAL	13265.3	47066.8	
ANNUAL MEAN	36.3	129	38.5
HIGHEST ANNUAL MEAN			145
LOWEST ANNUAL MEAN			1.62
HIGHEST DAILY MEAN	333	Aug 28	493
LOWEST DAILY MEAN	2.3	Dec 11	2.3
ANNUAL SEVEN-DAY MINIMUM	2.3	Dec 11	2.3
INSTANTANEOUS PEAK FLOW			219000
INSTANTANEOUS PEAK STAGE			29.30
ANNUAL RUNOFF (AC-FT)	26310	93360	27900
10 PERCENT EXCEEDS	167	352	13
50 PERCENT EXCEEDS	3.8	4.4	2.5
90 PERCENT EXCEEDS	3.4	3.7	1.6

WATER-QUALITY RECORDS

PERIOD OF RECORD.--water years 1957-58, 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
NOV 1993												
17...	1230	3.9	--	7.3	18.0	16.0	668	10.1	--	510	110	58
JAN 1994												
11...	1730	3.9	7730	8.0	10.0	8.0	663	11.3	113	--	--	--
MAR												
31...	1400	8.9	3700	8.1	20.5	19.0	666	9.6	120	370	71	47
MAY												
05...	1200	357	1150	8.3	20.0	19.0	666	8.2	102	250	44	35
JUN												
20...	1500	328	1160	7.9	32.0	25.0	664	8.4	118	250	43	35
SEP												
08...	0900	310	1140	8.2	26.0	25.0	669	6.9	96	--	--	--

[illegible]

ARKANSAS RIVER BASIN

07227100 REVUELTO CREEK NEAR LOGAN, NM

LOCATION.--Lat 35°20'29", long 103°23'37", in SW¼ sec.24, T.13 N., R.33 E., Quay County, Hydrologic Unit 11080008, on right bank 0.3 mi upstream from bridge on State Highway 469, 1.9 mi southeast of Logan, and at mile 2.3.

DRAINAGE AREA.--786 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1959 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,660 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Jan. 16, 1981, at site 320 ft upstream at datum 0.56 ft higher.

REMARKS.--Water-discharge records fair except for estimated discharges, which are poor. Low flows supplemented by surface and ground-water return from irrigation in vicinity of Tucumcari. Several observations of water temperature were made during the year. No flow at times most years.

EXTREMES OUTSIDE PERIOD OF RECORD (1941-47).--Maximum discharge determined, about 13,400 ft³/s, Sept. 18, 1946, gage height, 9.04 ft, at site 180 ft downstream at different datum, from unpublished records collected by U.S. Bureau of Reclamation. A peak of 26,100 ft³/s, date unknown, gage height, 12.9 ft at former site and datum, was measured by slope-area method in May 1957.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.0	6.8	5.4	4.8	7.7	1.1	7.4	19	e6.0	77	55	154
2	e3.0	8.6	5.0	3.6	9.9	1.5	10	22	e16	57	245	214
3	e10	7.3	5.0	3.1	9.0	1.6	52	33	e20	46	266	120
4	e8.0	6.1	4.5	2.9	7.8	1.3	17	19	e10	39	323	54
5	e18	3.6	4.5	2.2	6.8	.90	14	15	e5.0	40	121	43
6	e14	3.3	4.6	1.6	5.4	.69	38	9.8	e4.0	9.7	59	43
7	e10	3.3	2.5	1.6	2.9	.73	31	8.8	e4.0	11	35	14
8	e8.0	3.6	2.5	1.4	1.2	4.0	12	8.9	1.9	7.4	23	7.4
9	8.0	3.8	2.6	1.4	.74	9.7	8.0	9.2	2.4	47	15	8.0
10	8.7	3.8	2.4	1.4	.89	71	8.8	932	1.5	506	9.8	12
11	8.3	4.1	2.5	1.8	2.0	101	54	e40	15	128	8.2	17
12	9.8	5.0	3.1	1.9	1.3	40	34	e22	12	66	8.2	10
13	7.1	5.1	4.4	1.8	.57	142	12	e20	38	58	8.0	12
14	8.8	7.6	4.0	2.5	.78	28	11	e20	9.6	464	7.9	14
15	14	8.8	3.3	4.3	1.2	13	9.8	e14	3.0	99	9.0	9.0
16	15	4.8	3.0	3.7	1.4	11	6.8	e12	2.4	73	11	5.2
17	16	3.3	2.7	3.7	1.4	7.4	6.8	e10	1.9	57	17	5.8
18	17	3.7	3.3	2.7	.90	5.5	5.8	e6.0	4.8	41	13	8.0
19	263	3.7	4.8	5.2	.21	4.4	8.3	e10	8.8	21	15	7.4
20	210	4.4	6.3	5.8	.04	3.9	8.0	e8.0	14	8.8	17	5.8
21	49	4.9	5.8	4.4	.52	3.9	10	e6.0	15	8.8	22	4.8
22	43	4.5	6.8	4.0	1.7	3.4	25	e8.0	6.8	61	23	6.3
23	41	3.6	6.8	4.4	2.5	2.8	63	e6.0	6.8	26	18	6.3
24	23	3.1	6.3	4.0	2.5	2.7	24	e4.0	12	12	14	6.3
25	21	3.7	5.8	4.8	2.0	2.5	15	e16	7.2	12	10	5.8
26	14	5.8	8.9	3.7	1.4	2.6	12	e30	13	29	9.9	5.2
27	15	4.0	5.5	3.0	1.6	3.3	13	e25	29	29	7.9	5.8
28	19	4.8	5.1	4.0	1.5	3.7	16	e20	36	188	7.2	6.3
29	19	4.4	4.5	7.7	---	3.8	15	e10	646	111	7.0	8.8
30	27	5.0	4.3	6.5	---	3.4	20	e6.0	153	112	18	6.3
31	15	---	4.4	7.9	---	3.3	---	e8.0	---	60	290	---
TOTAL	945.7	144.5	140.6	111.8	75.85	484.12	567.7	1377.7	1105.1	2504.7	1693.1	825.5
MEAN	30.5	4.82	4.54	3.61	2.71	15.6	18.9	44.4	36.8	80.8	54.6	27.5
MAX	263	8.8	8.9	7.9	9.9	142	63	932	646	506	323	214
MIN	3.0	3.1	2.4	1.4	.04	.69	5.8	4.0	1.5	7.4	7.0	4.8
AC-FT	1880	287	279	222	150	960	1130	2730	2190	4970	3360	1640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1994, BY WATER YEAR (WY)

MEAN	35.0	9.17	10.1	5.71	7.71	6.54	23.6	47.2	70.6	119	123	72.5
MAX	320	34.1	129	27.9	42.5	52.1	346	203	492	1203	575	515
(WY)	1961	1962	1960	1990	1983	1985	1970	1991	1960	1960	1981	1969
MIN	.000	.056	.001	.000	.000	.003	.32	.085	.89	.42	.93	1.72
(WY)	1965	1978	1976	1965	1965	1980	1981	1976	1990	1983	1978	1978

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1959 - 1994
ANNUAL TOTAL	12147.20	9976.37	
ANNUAL MEAN	33.3	27.3	44.0
HIGHEST ANNUAL MEAN			204
LOWEST ANNUAL MEAN			4.72
HIGHEST DAILY MEAN	1490	932	13800
LOWEST DAILY MEAN	.14	.04	.00
ANNUAL SEVEN-DAY MINIMUM	.46	.81	.00
INSTANTANEOUS PEAK FLOW		5380	a26700
INSTANTANEOUS PEAK STAGE		6.04	14.30
INSTANTANEOUS LOW FLOW		.00	
ANNUAL RUNOFF (AC-FT)	24090	19790	31900
10 PERCENT EXCEEDS	41	53	58
50 PERCENT EXCEEDS	5.8	7.9	5.0
90 PERCENT EXCEEDS	2.0	2.0	.00

e Estimated

a-From slope-area measurement of peak flow.

ARKANSAS RIVER BASIN

07227100 REVUELTO CREEK NEAR LOGAN, NM -- Continued

WATER-QUALITY RECORDS

THE UNIVERSITY OF CHICAGO LIBRARY

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00301)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)
NOV 17... 1993	1500	15	1780	7.6	12.5	20.0	668	11.8	149	400	80	48
JAN 11... 1994	1600	0.60	2760	8.5	10.0	11.0	663	8.8	93	--	--	--
MAR 31... 1994	1500	3.7	8790	8.2	22.0	21.5	664	7.6	102	620	120	78
MAY 25... 1994	1535	E16	458	8.6	17.5	18.5	661	8.2	101	60	14	6.0
JUL 13... 1994	1500	60	1080	8.4	35.0	30.0	666	7.6	116	270	56	31
SEP 08... 1994	0830	52	1120	8.4	26.0	27.0	666	6.6	96	--	--	--

[illegible]

ARKANSAS RIVER BASIN

07227140 CANADIAN RIVER ABOVE NEW MEXICO-TEXAS STATE LINE, NM

WATER-QUALITY RECORDS

LOCATION.--Lat 35°23'35", long 103°02'30", in SW¼ sec. 32, T.14 N., R.37 E., Quay County, Hydrologic Unit 11080006, 0.1 mi upstream from New Mexico-Texas State line, 5.5 mi downstream from Rana Canyon, and 14.7 mi north of Glenrio.

PERIOD OF RECORD.--Water years 1969-73, 1975-86, 1992 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CURIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	FH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
NOV 1993												
18...	1100	27	6300	7.6	16.0	7.0	666	11.0	106	580	120	69
MAR 1994												
31...	1130	12	2950	8.4	20.0	17.0	672	8.9	106	410	70	57
MAY												
26...	1110	600	1050	8.4	--	17.5	670	7.8	93	170	32	22
JUL												
13...	1100	355	1170	8.3	33.0	30.0	664	6.6	101	260	49	33

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
NOV 1993											
18...	1100	20	7.4	268	510	1700	0.70	11	3680	350	20
MAR 1994											
31...	480	10	5.7	256	760	340	0.70	9.7	1880	420	20
MAY											
26...	150	5	6.8	173	220	100	0.50	4.1	639	190	<3
JUL											
13...	160	4	6.4	197	300	86	0.60	4.6	758	210	15

LOCATION.--Lat 37°04'43", long 105°45'23", in NE/4NW/4 sec.27, T.33 N., R.11 E., Conejos County, Hydrologic Unit 20000000, on right bank of Rio Grande, 11 mi. south of Culebra Creek, 11 mi. east of Lobatos, and 14 mi. east of Antonito.

PERIOD OF RECORD.--June 1899 to current year. Monthly discharge only for some periods, published in WSP 1312. Published as "at Cenicerio" 1899-1901, and as "near Cenicerio" 1902-4. Statistical summary computed for 1931 to current year.

REVISD RECORDS.--WSP 1312: 1919 (monthly runoff). WSP 210: Drainage area. WDR CO-78-1: 1976.
GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,427.63 ft above sea level. Prior to 1910,
nonrecording gages at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 30-31, Nov. 16-17, and Nov. 25 to Mar. 2. Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by transmountain diversions, storage reservoirs, groundwater withdrawal.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1828, that of June 8, 1905.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	233	350	300	320	450	286	390	1520	294	49	35
2	108	224	370	320	320	480	286	346	1830	244	44	44
3	108	269	400	320	320	492	307	325	2220	210	43	48
4	102	289	330	320	320	515	313	357	2080	211	36	59
5	114	261	340	330	320	566	320	390	1820	182	36	100
6	122	228	330	320	310	638	357	507	1850	153	36	131
7	113	216	350	300	330	654	335	683	1740	137	36	125
8	101	210	360	300	330	643	320	921	1410	122	33	104
9	101	204	360	300	330	661	306	1100	1100	108	32	97
10	120	206	370	280	330	614	301	1210	931	108	35	88
11	134	206	380	280	330	571	304	1170	884	99	34	75
12	147	215	430	280	330	552	315	939	848	92	33	63
13	165	209	410	280	330	550	319	946	834	79	56	59
14	168	233	360	280	330	516	303	1230	892	71	41	58
15	154	250	350	280	330	511	306	1500	820	61	56	52
16	143	250	350	270	330	509	363	1690	713	58	58	45
17	141	262	330	270	350	501	424	1730	648	57	46	45
18	142	263	320	270	370	492	498	1830	563	53	40	55
19	152	307	320	270	360	536	550	1970	484	57	44	48
20	152	300	310	280	360	559	518	1870	490	60	37	47
21	153	301	310	290	380	538	495	1780	664	56	36	48
22	152	312	310	290	370	483	607	1560	848	53	33	43
23	146	310	310	290	360	439	697	1320	1050	79	30	39
24	144	374	310	310	380	405	916	1150	1370	68	30	35
25	144	340	300	310	400	374	1190	1240	1420	58	32	35
26	142	210	300	330	420	367	1200	1490	961	58	30	34
27	146	250	300	340	440	335	846	1590	664	50	35	32
28	154	270	300	330	430	327	634	1350	514	41	27	32
29	167	290	300	340	---	309	489	1190	405	43	25	34
30	170	320	300	350	---	291	438	1180	325	50	24	37
31	223	---	300	330	---	298	---	1290	---	58	30	---
TOTAL	4343	7812	10460	9360	9830	15176	14543	36244	31898	3070	1157	1747
MEAN	140	260	337	302	351	490	485	1169	1063	99.0	37.3	58.2
MAX	223	374	430	350	440	661	1200	1970	2220	294	58	131
MIN	101	204	300	270	310	291	286	325	325	41	24	32
AC-FT	8610	15500	20750	18570	19500	30100	28850	71890	63270	6090	2290	3470

MEAN	176	317	283	257	307	415	540	1144	1246	414	156	121
MAX	1401	1199	763	521	595	884	2326	4958	4470	2156	842	779
(WY)	1942	1942	1942	1986	1986	1987	1985	1987	1941	1986	1957	1982
MIN	12.9	59.6	61.7	75.7	102	66.0	32.3	42.9	19.8	1.28	3.21	1.91
(WY)	1957	1955	1964	1957	1957	1957	1935	1963	1977	1951	1956	1956

	FOR 1951-1952 YEAR		FOR 1952-1953 YEAR		FOR 1953-1954 YEAR		FOR 1954-1955 YEAR	
ANNUAL TOTAL	201516		145640					
ANNUAL MEAN	552		399				a448	
HIGHEST ANNUAL MEAN							1264	1987
LOWEST ANNUAL MEAN							70.9	1964
HIGHEST DAILY MEAN	3850	May 30	2220	Jun 3			b9110	Jun 22 1949
LOWEST DAILY MEAN	85	Aug 9	24	Aug 30			c.00	Jul 16 1950
ANNUAL SEVEN-DAY MINIMUM	103	Aug 15	29	Aug 24			.00	Jul 16 1950
INSTANTANEOUS PEAK FLOW			2320	Jun 3			d11600	May 8 1952
INSTANTANEOUS PEAK STAGE			4.07	Jun 3			8.76	May 8 1952
ANNUAL RUNOFF (AC-FT)	399700		288900				324500	
10 PERCENT EXCEEDS	1290		952				961	
50 PERCENT EXCEEDS	320		307				240	
90 PERCENT EXCEEDS	123		44				40	

a-Average discharge for 31 years (water years 1900-30), 846 ft³/s; 612900 acre-ft/yr, includes period of extensive development for irrigation.

b-Maximum daily discharge for period of record, 13100 ft³/s, Jun 8, 1905.

c-No flow at times in 1950-51, 1956.

d-Maximum discharge and stage for period of record, 13200 ft³/s, Jun 8, 1905, gage height, 9.1 ft, from rating curve extended above 8000 ft³/s.

RIO GRANDE BASIN

08251500 RIO GRANDE NEAR LOBATOS, CO -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to current year.

REMARKS.--Replaces station 08249200 Rio Grande above Culebra Creek, near Lobatos, Colo., which was discontinued July 1969. This station operated by the Colorado District.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
OCT 1993											
04...	1215	115	467	9.0	24.5	17.0	585	12.0	163	150	11
NOV											
01...	1230	365	395	8.3	5.0	1.0	577	11.0	103	120	0
DEC											
06...	1245	480	292	8.3	6.0	0.0	578	12.2	110	93	2
JAN 1994											
18...	1330	302	272	8.3	8.5	-0.5	583	12.3	109	82	0
FEB											
15...	1245	382	263	8.0	5.5	-0.5	584	10.4	92	75	0
MAR											
15...	1205	510	266	8.2	18.0	11.5	583	8.4	101	79	0
APR											
11...	1330	305	322	8.3	3.0	9.0	580	11.5	131	100	4
MAY											
26...	1130	1620	265	8.3	--	12.5	580	8.0	99	84	4
JUN											
16...	1545	1530	291	8.3	--	23.0	583	8.7	134	98	--
16...	1600	1530	--	--	--	--	--	--	--	--	--
29...	1649	372	343	8.6	--	22.5	--	--	--	--	--
JUL											
28...	1215	50	424	8.8	30.0	22.0	585	8.2	123	130	0
AUG											
17...	0915	47	641	7.9	15.0	19.0	585	3.5	49	--	--
24...	1130	41	477	8.3	19.5	20.5	586	6.9	101	130	0
27...	1515	44	437	8.9	22.0	23.0	585	10.1	155	--	--
SEP											
12...	1615	6.0	372	8.7	--	20.0	581	8.0	116	110	0
12...	1615	6.0	--	--	--	--	--	--	--	--	--

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
OCT 1993										
04...	44	9.2	40	1	5.0	165	1	137	144	81
NOV										
01...	37	7.3	34	1	5.3	149	0	122	119	63
DEC										
06...	28	5.5	25	1	4.2	111	0	91	104	36
JAN 1994										
18...	25	4.7	25	1	3.6	123	0	101	104	30
FEB										
15...	23	4.3	21	1	3.7	112	0	92	98	26
MAR										
15...	24	4.7	21	1	3.5	113	0	93	96	31
APR										
11...	31	6.2	26	1	3.5	114	3	98	101	53
MAY										
26...	25	5.3	20	0.9	3.2	98	0	81	79	45
JUN										
16...	29	6.1	22	1	3.6	--	--	--	79	55
16...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	106	8	100	--	--
JUL										
28...	38	8.7	40	2	6.5	145	8	147	155	55
AUG										
17...	--	--	--	--	--	168	--	138	--	--
24...	37	8.1	45	2	6.0	186	1	155	154	69
27...	--	--	--	--	--	152	12	145	--	--
SEP										
12...	32	6.6	33	1	5.6	138	8	126	130	49
12...	--	--	--	--	--	--	--	--	--	--

A-Field dissolved bicarbonate, determined by incremental titration method.

B-Field dissolved carbonate, determined by incremental titration method.

C-Field total dissolved alkalinity, determined by incremental titration method.

K-Based on non-ideal colony counts.

08251500 RIO GRANDE NEAR LOBATOS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

[illegible][illegible]

08251500 RIO GRANDE NEAR LOBATOS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

[illegible][illegible]

RIO GRANDE BASIN

08251500 RIO GRANDE NEAR LOBATOS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

CROSS SECTION ANALYSES

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (000009)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (000400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
NOV 1993						
01...	1200	1.00	396	8.9	1.5	11.0
01...	1202	15.5	397	9.0	2.0	10.9
01...	1204	31.0	399	9.0	2.0	11.0
01...	1206	46.5	399	10	2.0	10.9
01...	1208	62.0	399	9.0	2.0	10.9
01...	1210	77.5	398	9.0	2.0	11.0
01...	1212	93.0	398	9.0	2.0	11.0
01...	1214	109	397	9.0	2.0	10.9
01...	1216	124	395	9.1	2.5	10.8
01...	1218	140	392	9.2	3.0	10.8

RIO GRANDE BASIN

08253000 CASIAS CREEK NEAR COSTILLA, NM

LOCATION.--Lat 36°53'48", Long 105°15'35", Taos County, Hydrologic Unit 13020101, in Sangre de Cristo Grant, on left bank 200 ft downstream from road crossing, 900 ft upstream from normal high-water line of Costilla Reservoir, 1.8 mi northwest of Costilla Dam, and 10 mi southeast of Costilla.

DRAINAGE AREA, 107.5 sq mi.

PERIOD OF RECORD.--April 1937 to current year (no winter records). Monthly discharge only for some periods, published in WSP 1312 and 1732. Records for Nov. 1-7, 1947 and Nov. 1-16, 1948, published in WSP 1118 and 1148, are unreliable and should not be used.

REVISED RECORDS.--WSP 1282: 1948-51. WSP 1923: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 9,400 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to July 18, 1940, water-stage recorder and wooden control 100 ft downstream at datum 1.56 ft lower.

REMARKS.--Records good except for estimated discharges, which are poor. Diversion 3.5 mi upstream for irrigation of about 1,300 acres, part of which is in Costilla Creek basin. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	---	---	---	---	---	---	16	e82	e28	13	17
2	9.1	---	---	---	---	---	---	17	e82	e26	12	12
3	8.8	---	---	---	---	---	---	15	e80	e25	11	12
4	---	---	---	---	---	---	---	16	e76	24	9.7	12
5	---	---	---	---	---	---	---	18	e74	22	13	12
6	---	---	---	---	---	---	---	22	e70	21	11	11
7	---	---	---	---	---	---	---	27	e65	20	10	10
8	---	---	---	---	---	---	---	31	e62	20	10	9.9
9	---	---	---	---	---	---	---	39	e58	19	9.8	9.7
10	---	---	---	---	---	---	---	41	e53	18	12	9.2
11	---	---	---	---	---	---	---	36	e49	17	11	9.1
12	---	---	---	---	---	---	---	41	e46	17	11	9.0
13	---	---	---	---	---	---	---	41	e43	16	11	9.2
14	---	---	---	---	---	---	---	44	e40	15	11	10
15	---	---	---	---	---	---	---	45	e38	16	11	8.7
16	---	---	---	---	---	---	---	53	e37	16	9.6	8.5
17	---	---	---	---	---	---	---	62	e36	14	9.0	8.4
18	---	---	---	---	---	---	---	72	e37	13	9.1	8.4
19	---	---	---	---	---	---	---	75	e38	12	10	8.4
20	---	---	---	---	---	---	---	75	e43	13	11	8.8
21	---	---	---	---	---	---	---	75	e52	12	10	8.6
22	---	---	---	---	---	---	---	76	e52	12	9.4	7.7
23	---	---	---	---	---	---	---	74	e47	12	9.4	7.5
24	---	---	---	---	---	---	---	78	e44	12	13	7.3
25	---	---	---	---	---	---	---	e79	e42	11	11	7.2
26	---	---	---	---	---	---	---	e86	e39	11	12	6.8
27	---	---	---	---	---	---	---	e84	e36	13	11	6.6
28	---	---	---	---	---	---	---	e81	e34	12	9.8	6.4
29	---	---	---	---	---	---	---	e80	e32	12	10	6.3
30	---	---	---	---	---	---	16	e80	e30	11	9.6	6.3
31	---	---	---	---	---	---	---	e82	---	11	13	---
TOTAL	27.1	---	---	---	---	---	16	1661	1517	501	333.4	274.0
MEAN	9.03	---	---	---	---	---	16.0	53.6	50.6	16.2	10.8	9.13
MAX	9.2	---	---	---	---	---	16	86	82	28	13	17
MIN	8.8	---	---	---	---	---	16	15	30	11	9.0	6.3
AC-FT	54	---	---	---	---	---	32	3290	3010	994	661	543

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1994, BY WATER YEAR (WY)

	MEAN	5.40	4.01	---	---	---	8.35	8.40	20.4	32.5	15.9	9.74	6.87
MAX	11.4	6.00	---	---	---	---	8.35	24.7	53.6	82.0	53.8	23.7	15.9
(WY)	1983	1990	---	---	---	---	1978	1987	1994	1983	1983	1957	1961
MIN	2.83	2.10	---	---	---	---	8.35	3.85	2.30	1.83	1.55	2.32	1.45
(WY)	1964	1965	---	---	---	---	1978	1967	1963	1963	1963	1963	1951

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1937 - 1994
ANNUAL TOTAL	3984.7	4329.5	
ANNUAL MEAN	25.5	27.6	15.6
HIGHEST ANNUAL MEAN			39.4
LOWEST ANNUAL MEAN			2.66
HIGHEST DAILY MEAN	65 Jun 2	86 May 26	111 Jun 21 1957
LOWEST DAILY MEAN	8.8 Oct 3	6.3 Sep 29	1.0 Jul 1 1963
ANNUAL SEVEN-DAY MINIMUM	9.4 Sep 27	6.7 Sep 24	1.2 Jun 26 1963
INSTANTANEOUS PEAK FLOW		a98 May 24	b181 Jul 20 1971
INSTANTANEOUS PEAK STAGE		1.53 May 24	2.07 Jul 20 1971
ANNUAL RUNOFF (AC-FT)	7900	8590	11290
10 PERCENT EXCEEDS	52	75	37
50 PERCENT EXCEEDS	16	15	9.3
90 PERCENT EXCEEDS	12	8.8	3.6

e Estimated

a-Maximum discharge and stage for water year, 196 ft³/s May 25, 1994, gage height 2.56 ft backwater from lake.

b-From rating curve extended above 85 ft³/s.

RIO GRANDE BASIN

08253500 SANTISTEVAN CREEK NEAR COSTILLA, NM

LOCATION.--Lat 36°53'03", long 105°16'50", Taos County, Hydrologic Unit 13020101, in Sangre de Cristo Grant, on left bank 200 ft upstream from road crossing, 1,300 ft upstream from normal high-water line of Costilla Reservoir, 0.6 mi north of Costilla Dam, and 16 mi southeast of Costilla.

DRAINAGE AREA.--2.15 mi².

PERIOD OF RECORD.--April 1937 to current year (no winter records). Monthly discharge only for some periods, published in WSP 1312 and 1732.

REVISED RECORDS.--WSP 1923: Drainage area.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 9,490 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 27, 1940, water-stage recorder and wooden control at datum 0.99 ft lower.

REMARKS.--Records good. No diversions upstream from station. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	---	---	---	---	---	---	1.3	12	4.7	2.8	2.4
2	1.1	---	---	---	---	---	---	1.3	13	4.7	2.3	2.0
3	1.1	---	---	---	---	---	---	1.3	13	4.4	2.1	2.0
4	---	---	---	---	---	---	---	1.4	13	4.2	2.0	1.9
5	---	---	---	---	---	---	---	1.8	13	4.0	2.4	2.1
6	---	---	---	---	---	---	---	2.2	13	3.9	2.0	1.9
7	---	---	---	---	---	---	---	2.6	12	3.8	1.9	1.8
8	---	---	---	---	---	---	---	3.0	12	3.8	2.0	1.8
9	---	---	---	---	---	---	---	3.3	11	3.6	1.8	1.8
10	---	---	---	---	---	---	---	3.2	11	3.3	2.2	1.7
11	---	---	---	---	---	---	---	3.3	10	3.3	1.9	1.7
12	---	---	---	---	---	---	---	3.4	9.8	3.1	1.8	1.7
13	---	---	---	---	---	---	---	3.7	9.5	3.0	1.9	1.8
14	---	---	---	---	---	---	---	4.3	9.2	2.9	2.0	1.8
15	---	---	---	---	---	---	---	4.7	8.6	3.0	1.9	1.6
16	---	---	---	---	---	---	---	5.6	8.3	2.9	1.8	1.6
17	---	---	---	---	---	---	---	6.3	7.8	2.7	1.8	1.6
18	---	---	---	---	---	---	---	6.6	7.6	2.6	1.8	1.5
19	---	---	---	---	---	---	---	7.3	7.2	2.5	1.7	1.5
20	---	---	---	---	---	---	---	8.9	6.9	2.5	1.8	1.6
21	---	---	---	---	---	---	---	9.3	6.8	2.4	1.7	1.5
22	---	---	---	---	---	---	---	9.6	6.6	2.3	1.5	1.4
23	---	---	---	---	---	---	---	9.8	6.4	2.2	1.5	1.4
24	---	---	---	---	---	---	---	10	6.2	2.2	1.8	1.3
25	---	---	---	---	---	---	---	10	6.0	2.1	1.5	1.3
26	---	---	---	---	---	---	---	9.8	5.6	2.1	2.9	1.2
27	---	---	---	---	---	---	---	9.4	5.2	2.6	1.9	1.2
28	---	---	---	---	---	---	---	9.3	5.2	2.3	1.8	1.2
29	---	---	---	---	---	---	---	9.6	5.0	2.2	1.8	1.2
30	---	---	---	---	---	---	1.4	9.9	4.9	2.0	1.8	1.2
31	---	---	---	---	---	---	---	11	---	2.1	2.3	---
TOTAL	3.3	---	---	---	---	---	1.4	183.2	265.8	93.4	60.4	48.7
MEAN	1.10	---	---	---	---	---	1.40	5.91	8.86	3.01	1.95	1.62
MAX	1.1	---	---	---	---	---	1.4	11	13	4.7	2.9	2.4
MIN	1.1	---	---	---	---	---	1.4	1.3	4.9	2.0	1.5	1.2
AC-FT	6.5	---	---	---	---	---	2.8	363	527	185	120	97

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1994, BY WATER YEAR (WY)

	MEAN	1.00	.54	---	---	---	.66	1.11	2.92	5.42	3.10	1.87	1.27
MAX	1.82	1.03	---	---	---	---	.66	2.60	6.74	12.6	7.98	4.28	2.30
(WY)	1942	1969	---	---	---	---	1978	1979	1942	1979	1941	1957	1957
MIN	.55	.34	---	---	---	---	.66	.53	.80	1.11	.63	.56	.42
(WY)	1973	1965	---	---	---	---	1978	1967	1967	1963	1956	1956	1956

SUMMARY STATISTICS FOR 1993 CALENDAR YEAR FOR 1994 WATER YEAR WATER YEARS 1937 - 1994

ANNUAL TOTAL	462.9	656.2	
ANNUAL MEAN	2.97	4.18	2.68
HIGHEST ANNUAL MEAN			5.98
LOWEST ANNUAL MEAN			.76
HIGHEST DAILY MEAN	7.3 Jun 3	13 Jun 2	16 Jun 17 1979
LOWEST DAILY MEAN	1.1 Oct 1	1.1 Oct 1	.00 Oct 9 1987
ANNUAL SEVEN-DAY MINIMUM	1.2 Sep 27	1.2 Sep 24	.21 Nov 18 1964
INSTANTANEOUS PEAK FLOW		14 Jun 3	18 Aug 11 1941
INSTANTANEOUS PEAK STAGE		1.28 Jun 3	1.73 Aug 11 1941
ANNUAL RUNOFF (AC-FT)	918	1300	1940
10 PERCENT EXCEEDS	5.9	9.8	5.9
50 PERCENT EXCEEDS	2.1	2.4	1.8
90 PERCENT EXCEEDS	1.3	1.4	.80

RIO GRANDE BASIN

08253900 COSTILLA RESERVOIR NEAR COSTILLA, NM

LOCATION.--Lat 36°52'36", long 105°16'45", Taos County, Hydrologic Unit 13020101, in Sangre de Cristo Grant, on face of Costilla Dam on Costilla Creek, 16 mi southeast of Costilla, and at mile 34.8.

DRAINAGE AREA 54.6 sq mi.

PERIOD OF RECORD.--May 1922 to September 1965 (monthend contents only), October 1965 to September 1983, April 1, 1990 to present. Records prior to October 1960 published in WSP 1732. Prior to October 1966, published as Costilla Lake near Costilla.

REVISED RECORDS.--WSP 1923: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Altitude of gage is 9,300, from topographic map.

REMARKS.--Reservoir is formed by earthfill dam faced with rock. Storage began in 1920. Diversions for irrigation of about 1,300 acres above Reservoir. Reservoir is used for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 16,500 acre-ft June 1-4, 1994, gage height, 107.54 ft; no storage October 1925 to February 1926, September 1956, Aug. 22 to Sept. 24, 1972, July 29 to Sept. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 16,500 acre-ft, June 1-4, maximum gage-height, 107.54 ft, June 3,4; minimum contents, 4,070 acre-ft, Oct. 1, gage height, 67.21 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4070	4850	5440	5990	6400	6780	7570	9610	16500	15400	9690	5590
2	4100	4870	5470	6000	6410	6800	7610	9690	16500	15400	9420	5570
3	4130	4890	5490	6010	6430	6810	7650	9780	16500	15300	9180	5580
4	4160	4920	5500	6030	6450	6830	7680	9890	16500	15100	8940	5560
5	4190	4930	5520	6050	6460	6850	7710	10000	16400	14900	8870	5460
6	4220	4950	5540	6060	6470	6880	7740	10200	16400	14700	8880	5360
7	4250	4970	5560	6070	6480	6910	7770	10400	16400	14500	8860	5280
8	4270	4990	5580	6080	6500	6930	7790	10600	16400	14300	8620	5200
9	4290	5000	5590	6090	6510	6950	7820	10800	16300	14100	8360	5170
10	4320	5020	5610	6100	6520	6960	7850	11100	16300	13900	8140	5170
11	4350	5050	5630	6120	6540	6980	7880	11200	16300	13600	7930	5140
12	4370	5060	5650	6130	6550	7000	7910	11500	16300	13400	7860	5050
13	4390	5100	5670	6140	6560	7010	7950	11700	16300	13200	7880	4970
14	4420	5120	5680	6160	6570	7030	7990	12000	16300	12900	7810	4900
15	4440	5150	5700	6170	6580	7060	8040	12200	16300	12700	7590	4830
16	4470	5170	5720	6180	6600	7090	8100	12500	16200	12500	7390	4800
17	4500	5180	5730	6190	6610	7130	8180	e12900	16200	12200	7200	4800
18	4530	5210	5750	6210	6640	7160	8270	e13400	16200	12000	7030	4770
19	4550	5230	5770	6220	6640	7210	8360	e13800	16300	11800	6970	4680
20	4570	5230	5790	6240	6650	7250	8460	14200	16300	11500	6990	4590
21	4600	5240	5800	6250	6670	7290	8550	14600	16300	11300	6920	4520
22	4620	5270	5820	6260	6680	7310	8650	15000	16200	11200	6720	4460
23	4640	5300	5830	6270	6690	7340	8790	15300	16200	11100	6530	4440
24	4670	5310	5860	6280	6700	7370	8950	15600	16100	11100	6370	4440
25	4690	e5330	5870	6300	6710	7400	9070	16000	16100	10800	6200	4430
26	4710	e5350	5900	6310	6730	7440	9160	16200	16000	10600	6140	4370
27	4730	5370	5910	6330	6750	7450	9240	16300	15900	10400	6160	4320
28	4750	5390	5930	6360	6760	7470	9330	16400	15800	10200	6110	4270
29	4770	5400	5940	6380	---	7490	9430	16400	15600	10100	5940	4210
30	4800	5420	5950	6400	---	7510	9520	16400	15500	10000	5800	4210
31	4820	---	5970	6420	---	7540	---	16400	---	9940	5680	---
MAX	4820	5420	5970	6420	6760	7540	9520	16400	16500	15400	9690	5590
MIN	4070	4850	5440	5990	6400	6780	7570	9610	15500	9940	5680	4210
(†)	70.92	73.63	79.99	77.84	79.15	82.07	88.81	107.38	105.42	90.12	74.78	67.95
(††)	+780	+600	+550	+450	+340	+780	+1980	+6880	-900	-5560	-4260	-1470

e Estimated

CAL YR 1993 MAX 10600 MIN 2530 AC-FT (††) +2690
WTR YR 1994 MAX 16500 MIN 4070 AC-FT (††) +170

(†) GAGE HEIGHT, IN FEET, AT END OF MONTH
(††) CHANGE IN CONTENTS, IN ACRE-FEET

RIO GRANDE BASIN

08254000 COSTILLA CREEK BELOW COSTILLA DAM, NM

LOCATION.--Lat 36°52'26", long 105°16'47", Taos County, Hydrologic Unit 13020101, in Sangre de Cristo Grant, on right bank approximately 1,000 ft downstream from Costilla Dam, 16 mi southeast of Costilla, and at mile 34.5.

DRAINAGE AREA.--54.6 mi².

PERIOD OF RECORD.--April 1937 to current year (no winter records 1937-44, 1947-49, 1988-94). Monthly discharge only for some periods, published in WSP 1312. Prior to October 1951, published as "below reservoir near Costilla."

REVISED RECORDS.--WSP 1923: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 9,290 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 7, 1989, at site 500 ft upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Costilla Reservoir (station 08253900). Diversions for irrigation of about 1,300 acres upstream from reservoir. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--41 years (water years 1945-47, 1950-87), 18.6 ft³/s, 13,480 acre-ft/yr.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	---	---	---	---	---	e.00	.00	173	70	143	81
2	.00	---	---	---	---	---	e.00	.00	189	50	147	37
3	.00	---	---	---	---	---	e.00	.53	188	75	139	16
4	---	---	---	---	---	---	e.00	1.2	186	113	130	34
5	---	---	---	---	---	---	e.00	1.2	175	118	59	75
6	---	---	---	---	---	---	e.00	1.3	157	117	15	67
7	---	---	---	---	---	---	e.00	1.3	139	113	34	62
8	---	---	---	---	---	---	e.00	1.3	123	113	139	62
9	---	---	---	---	---	---	e.00	1.3	111	112	138	32
10	---	---	---	---	---	---	e.00	1.4	101	117	128	14
11	---	---	---	---	---	---	e.00	1.4	96	124	127	32
12	---	---	---	---	---	---	e.00	1.4	92	118	54	65
13	---	---	---	---	---	---	e.00	1.4	88	123	15	59
14	---	---	---	---	---	---	e.00	1.5	85	126	58	56
15	---	---	---	---	---	---	e.00	1.5	81	126	135	56
16	---	---	---	---	---	---	e.00	1.5	78	125	124	29
17	---	---	---	---	---	---	e.00	1.5	76	125	112	13
18	---	---	---	---	---	e.00	e.00	1.5	73	124	109	31
19	---	---	---	---	---	e.00	e.00	1.5	76	124	47	65
20	---	---	---	---	---	e.00	e.00	1.5	82	125	14	64
21	---	---	---	---	---	e.00	e.00	1.6	83	126	51	55
22	---	---	---	---	---	e.00	e.00	1.6	84	66	123	45
23	---	---	---	---	---	e.00	.00	1.6	76	37	115	24
24	---	---	---	---	---	e.00	.00	1.6	78	60	113	11
25	---	---	---	---	---	e.00	.00	6.9	77	116	112	22
26	---	---	---	---	---	e.00	.00	66	75	118	46	41
27	---	---	---	---	---	e.00	.00	108	97	119	12	39
28	---	---	---	---	---	e.00	.00	120	100	118	45	40
29	---	---	---	---	---	e.00	.00	127	97	72	106	39
30	---	---	---	---	---	e.00	.03	148	103	50	97	17
31	---	---	---	---	---	e.00	---	161	---	72	91	---
TOTAL	---	---	---	---	---	---	0.03	767.53	3239	3192	2778	1283
MEAN	---	---	---	---	---	---	.001	24.8	108	103	89.6	42.8
MAX	---	---	---	---	---	---	.03	161	189	126	147	81
MIN	---	---	---	---	---	---	.00	.00	73	37	12	11
AC-FT	---	---	---	---	---	---	.06	1520	6420	6330	5510	2540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1994, BY WATER YEAR (WY)

MEAN	3.72	.83	.27	.24	.24	2.47	4.40	26.2	64.5	69.9	53.4	21.4
MAX	30.7	10.9	4.20	2.81	3.00	48.8	61.9	173	145	172	120	83.5
(WY)	1962	1962	1950	1950	1950	1992	1984	1942	1942	1941	1973	1957
MIN	.010	.000	.000	.000	.000	.000	.000	.000	10.5	16.9	8.97	2.39
(WY)	1973	1957	1952	1952	1952	1952	1952	1952	1957	1943	1963	1977

SUMMARY STATISTICS

WATER YEARS 1937 - 1994

ANNUAL MEAN	18.6
HIGHEST ANNUAL MEAN	40.0
LOWEST ANNUAL MEAN	8.64
HIGHEST DAILY MEAN	286
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
ANNUAL RUNOFF (AC-FT)	13480
10 PERCENT EXCEEDS	85
50 PERCENT EXCEEDS	.80
90 PERCENT EXCEEDS	.02

e Estimated

RIO GRANDE BASIN

08261000 COSTILLA CREEK AT GARCIA, CO

LOCATION.--Lat 36°59'21", long 105°31'54", Taos County, Hydrologic Unit 13020101, in Sangre de Cristo Grant, on left bank 0.4 mi downstream from old State Highway 3, 0.5 mi upstream from New Mexico-Colorado State line, 0.9 mi south of Garcia, and at mile 13.3.

DRAINAGE AREA.--200 mi², approximately.

PERIOD OF RECORD.--June 1944 to current year (no winter records).

GAGE.--Water-stage recorder. Concrete control since Oct. 9, 1956. Elevation of gage is 7,760 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Apr. 20, 1950, at site 0.4 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow partly regulated by Costilla Reservoir (station 08253900) 22 mi upstream. Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred in 1886, from information by local residents. Flood of May 11, 1942, probably reached a discharge of 1,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	---	---	---	---	---	e4.5	80	198	13	9.4	33
2	.09	---	---	---	---	---	e4.3	72	227	4.6	23	16
3	.12	---	---	---	---	---	e4.2	54	202	3.6	23	.32
4	.10	---	---	---	---	---	e4.7	59	178	7.1	14	.05
5	.08	---	---	---	---	---	e4.3	79	164	8.0	11	.10
6	.05	---	---	---	---	---	e3.8	97	138	10	1.0	1.2
7	.04	---	---	---	---	---	e3.8	106	116	8.1	.78	.11
8	.04	---	---	---	---	---	e3.7	129	103	9.6	4.7	.00
9	.01	---	---	---	---	---	e3.7	133	82	11	12	.00
10	1.5	---	---	---	---	---	e3.6	144	54	8.3	11	.00
11	3.6	---	---	---	---	---	e3.6	107	35	7.1	13	.00
12	3.1	---	---	---	---	---	e3.6	77	22	6.7	7.2	1.5
13	3.1	---	---	---	---	---	e3.6	79	14	5.4	3.4	2.2
14	2.3	---	---	---	---	---	5.3	109	12	6.9	6.0	2.6
15	.56	---	---	---	---	---	13	144	8.6	9.6	5.8	1.0
16	.59	---	---	---	---	---	20	159	7.7	16	5.8	.90
17	.51	---	---	---	---	---	38	240	12	15	2.6	.54
18	.51	---	---	---	---	---	65	189	15	12	2.6	.01
19	.47	---	---	---	---	---	87	219	14	5.3	3.1	2.9
20	.42	---	---	---	---	---	87	200	23	5.4	.99	7.2
21	---	---	---	---	---	---	106	245	22	5.6	.66	13
22	---	---	---	---	---	---	99	230	29	4.5	2.5	2.9
23	---	---	---	---	---	20	116	124	18	2.2	1.7	1.6
24	---	---	---	---	---	16	133	130	44	2.2	1.6	.66
25	---	---	---	---	---	12	138	132	50	3.2	1.3	.37
26	---	---	---	---	---	11	108	130	8.7	3.4	1.0	5.2
27	---	---	---	---	---	6.8	100	172	10	2.6	.15	13
28	---	---	---	---	---	e5.6	82	207	10	6.1	.00	2.2
29	---	---	---	---	---	e5.4	81	247	7.4	5.7	2.0	3.2
30	---	---	---	---	---	e5.2	69	220	9.1	1.9	1.3	6.4
31	---	---	---	---	---	e4.8	---	179	---	8.2	13	---
TOTAL	17.41	---	---	---	---	86.8	1398.7	4492	1833.5	218.3	185.58	118.16
MEAN	.87	---	---	---	---	9.64	46.6	145	61.1	7.04	5.99	3.94
MAX	3.6	---	---	---	---	20	138	247	227	16	23	33
MIN	.01	---	---	---	---	4.8	3.6	54	7.4	1.9	.00	.00
AC-FT	35	---	---	---	---	172	2770	8910	3640	433	368	234

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1994, BY WATER YEAR (WY)

	MEAN	2.13	---	---	---	---	---	22.0	47.7	26.3	6.61	4.01	2.03
MAX	5.84	---	---	---	---	---	---	46.6	189	204	39.3	13.4	6.95
(WY)	1966	---	---	---	---	---	---	1994	1987	1983	1979	1983	1993
MIN	.000	---	---	---	---	---	---	.000	.023	.000	.013	.022	.000
(WY)	1967	---	---	---	---	---	---	1967	1967	1967	1977	1977	1974

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1966 - 1994
HIGHEST DAILY MEAN	99 Apr 1	247 May 29	444 Jun 1 1983
LOWEST DAILY MEAN	.00 May 11	.00 Aug 28	.00 Oct 24 1965
ANNUAL SEVEN-DAY MINIMUM	.06 Oct 3	.06 Oct 3	.00 Apr 6 1966
INSTANTANEOUS PEAK FLOW		382 May 19	514 May 22 1991
INSTANTANEOUS PEAK STAGE		a4.79 May 21	4.91 Jun 1 1983
10 PERCENT EXCEEDS	48	136	48
50 PERCENT EXCEEDS	6.8	7.3	1.6
90 PERCENT EXCEEDS	.11	.38	.00

e Estimated

a-Backwater from debris.

RIO GRANDE BASIN

08263500 RIO GRANDE NEAR CERRO, NM

LOCATION.--Lat 36°44'24", long 105°40'59", in NW¼NE¼ sec.20, T.29 N., R.12 E., Taos County, Hydrologic Unit 12020101 on left bank 4 mi southwest of Cerro. 5.5 mi northwest of Questa. 7.4 mi upstream from Red River. and at mile 1,693.1.

DRAINAGE AREA.--8,440 mi², approximately, including 2,940 mi² in closed basin in San Luis valley, CO.

PERIOD OF RECORD.--May 1948 to current year.

REVISED RECORDS.--WDR NM-80-1: 1978(M).

GAGE.--Water-stage recorder. Elevation of gage is 7,110 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 620,000 acres in Colorado and 7,000 acres in New Mexico. Several observations of water temperature were made during year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	216	375	367	e390	538	340	509	1670	379	91	76
2	155	262	411	368	e384	588	322	455	1850	347	88	81
3	146	275	429	353	e380	618	326	405	2170	285	81	83
4	145	323	467	362	e378	629	355	391	2250	249	77	88
5	140	340	378	386	e375	680	354	444	1950	248	80	94
6	148	300	390	417	378	722	381	492	1950	231	73	115
7	157	261	387	391	364	775	419	738	1890	e220	75	160
8	149	250	397	372	391	781	367	916	1650	e208	73	159
9	136	240	412	377	373	783	370	1200	1350	e196	71	139
10	135	239	421	370	382	769	350	1330	1120	e184	69	130
11	153	244	423	348	387	715	361	1420	1020	e172	70	122
12	171	246	440	345	390	688	355	1250	990	e160	76	112
13	183	245	497	352	398	662	370	1090	944	e148	72	103
14	200	259	487	351	384	658	359	1260	964	e136	88	97
15	200	280	e457	348	389	618	338	1580	961	e124	88	94
16	188	283	e430	351	383	624	358	1750	853	e112	82	91
17	180	275	e420	338	408	608	439	1880	774	e100	100	87
18	175	255	e400	338	445	597	530	1890	715	e96	90	85
19	175	264	377	337	447	615	625	2050	613	93	84	91
20	187	310	375	337	419	653	626	2050	572	90	82	91
21	187	309	366	340	425	647	595	1980	585	94	85	87
22	187	345	384	342	460	626	618	1910	857	92	80	89
23	185	380	381	347	486	542	746	1640	956	88	79	86
24	175	430	380	365	440	511	862	1420	1210	98	74	82
25	171	449	379	372	458	463	1100	1430	1410	105	72	80
26	172	396	377	388	480	436	1300	1610	1190	93	72	79
27	170	357	377	391	502	440	1130	1810	868	93	73	78
28	173	273	373	399	512	384	865	1770	679	92	74	77
29	188	310	371	390	---	377	678	1550	553	81	76	76
30	193	331	376	401	---	346	563	1520	449	78	70	76
31	168	---	372	417	---	341	---	1520	---	81	70	---
TOTAL	5255	8947	12509	11360	11608	18434	16402	41260	35013	4773	2435	2908
MEAN	170	298	404	366	415	595	547	1331	1167	154	78.5	96.9
MAX	200	449	497	417	512	783	1300	2050	2250	379	100	160
MIN	135	216	366	337	364	341	322	391	449	78	69	76
AC-FT	10420	17750	24810	22530	23020	36560	32530	81840	69450	9470	4830	5770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1994, BY WATER YEAR (WY)

	1999	357	301	290	348	470	561	972	1152	472	234	175
MEAN	720	1073	774	566	657	1010	2335	4577	4400	2181	957	804
MAX	1970	1987	1987	1987	1987	1987	1987	1987	1949	1986	1957	1982
(WY)	52.7	88.1	100	116	140	110	107	84.1	58.1	51.5	48.1	44.8
MIN	1957	1957	1964	1957	1957	1957	1955	1963	1977	1951	1956	1956
(WY)												

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1949 - 1994
ANNUAL TOTAL	229448	170904	
ANNUAL MEAN	629	468	461
HIGHEST ANNUAL MEAN			1275
LOWEST ANNUAL MEAN			112
HIGHEST DAILY MEAN	3620	May 30	2250
LOWEST DAILY MEAN	135	Oct 10	69
ANNUAL SEVEN-DAY MINIMUM	144	Oct 4	72
INSTANTANEOUS PEAK FLOW		2350	Jun 3
INSTANTANEOUS PEAK STAGE		9.03	Jun 3
INSTANTANEOUS LOW FLOW		67	Aug 31
ANNUAL RUNOFF (AC-FT)	455100	339000	333700
10 PERCENT EXCEEDS	1390	1120	981
50 PERCENT EXCEEDS	384	370	273
90 PERCENT EXCEEDS	171	84	81

Estimated

RIO GRANDE BASIN

08265000 RED RIVER NEAR QUESTA, NM

LOCATION.--Lat 36°42'12", Long 105°34'04", in NE¼ sec. 32, T.29 N., R.13 E. (projected), Taos County, Hydrologic Unit 13020101, in Carson National Forest, on left bank 1.3 mi upstream from Cabresto Creek, 1.5 mi east of Questa, and at mile 9.0.

DRAINAGE AREA.--113 mi².

PERIOD OF RECORD.--April to October 1910 and January to September 1911 (gage heights and discharge measurements only), October 1912 to March 1924, May 1924 to September 1925, January to March 1926, September 1926 to current year. Monthly discharge only for some periods, published in WSP 1312. Published as "Rio Colorado above Questa" 1910-11, 1926-30, and as "Rio Colorado near Questa" 1912-25, 1930-48.

REVISED RECORDS.--WSP 808: 1935. WSP 1392: 1913, 1932, 1941, 1947-48. WSP 1712: Drainage area.

GAGE.--Water-stage recorder. Wood or concrete control since Mar. 20, 1936. Datum of gage is 7,451.92 ft above National Geodetic Vertical Datum of 1929. See WSP 1923 for history of changes prior to Oct. 4, 1938.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation of a few hundred acres upstream from station. Figures of discharge do not include flow in South ditch which diverts from left bank 1,500 ft upstream and bypasses gage for irrigation and stock water downstream. January 1966 to December 1991 surface and ground-water diversions by Molybdenum Corp. of America (Molycorp) refinery 5.5 mi upstream bypass gage in tailings pipelines on left bank and discharge into settling pond 3 mi downstream. Effluent from this pond enters Red River as surface water and is included in discharge at Red River below Fish Hatchery, near Questa (station 08266820). Several observations of water temperature were made during year.

AVERAGE DISCHARGE.--52 years (water years 1913-25, 1927-65), 55.9 ft³/s, 40,500 acre-ft/yr, prior to extensive upstream diversions by Molycorp.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	30	26	24	19	23	31	74	359	116	57	61
2	33	30	25	24	e21	23	32	72	393	110	58	53
3	33	29	25	25	e22	23	32	72	392	105	52	48
4	32	29	25	24	e23	24	32	76	399	99	49	48
5	32	29	24	26	e23	25	34	101	380	94	49	44
6	32	27	24	27	22	25	31	147	360	89	47	44
7	33	27	24	27	22	26	36	190	339	86	45	42
8	33	26	25	e25	22	27	34	201	305	85	44	40
9	33	26	27	e23	22	26	33	214	279	81	43	38
10	33	26	29	e26	22	25	34	188	275	77	42	37
11	32	28	29	26	23	26	32	168	276	76	45	36
12	32	28	30	26	22	25	32	188	261	74	45	35
13	32	28	28	26	24	24	33	211	248	72	42	38
14	31	29	29	26	25	26	37	242	248	69	44	43
15	32	27	e25	24	23	27	41	268	243	68	46	39
16	31	27	e25	24	23	29	46	310	216	66	44	37
17	33	25	25	26	22	31	57	347	200	63	41	36
18	33	26	26	25	23	34	72	361	195	62	39	35
19	32	27	25	25	22	37	85	359	194	60	39	35
20	31	25	25	26	22	39	92	382	200	60	49	35
21	31	25	e25	26	22	38	110	363	195	58	50	35
22	30	28	e25	27	22	38	111	337	209	56	43	34
23	30	31	e23	28	22	37	142	316	192	56	40	33
24	30	30	e23	25	24	e37	177	324	179	54	40	33
25	30	21	e24	25	23	e38	171	312	167	54	40	32
26	30	22	e24	25	24	e35	132	304	155	51	40	31
27	27	e23	e25	25	24	e32	107	265	144	51	39	29
28	29	e25	25	24	23	e30	90	263	137	51	37	29
29	29	e24	23	25	---	31	82	282	130	52	38	28
30	26	23	23	24	---	33	75	309	122	53	37	27
31	28	---	23	e23	---	33	---	316	---	51	43	---
TOTAL	965	801	784	782	631	927	2053	7562	7392	2199	1367	1135
MEAN	31.1	26.7	25.3	25.2	22.5	29.9	68.4	244	246	70.9	44.1	37.8
MAX	33	31	30	28	25	39	177	382	399	116	58	61
MIN	26	21	23	23	19	23	31	72	122	51	37	27
AC-FT	1910	1590	1560	1550	1250	1840	4070	15000	14660	4360	2710	2250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1994, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
MEAN	22.9	16.5	11.7	11.7	12.2	15.2	37.6	117	138	62.4	39.6	28.9																	
MAX	38.1	32.8	25.3	25.2	22.8	40.0	84.1	267	405	172	70.6	62.2																	
(WY)	1986	1987	1994	1994	1988	1989	1985	1979	1979	1979	1966	1991																	
MIN	7.93	8.09	3.88	3.91	4.81	5.11	9.73	17.5	22.7	14.6	11.8	8.81																	
(WY)	1973	1977	1975	1973	1977	1977	1971	1971	1977	1971	1972	1978																	

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1966 - 1994
ANNUAL TOTAL	25194	26598	
ANNUAL MEAN	69.0	72.9	42.9
HIGHEST ANNUAL MEAN			87.6
LOWEST ANNUAL MEAN			11.8
HIGHEST DAILY MEAN	301	399	557
LOWEST DAILY MEAN	17	19	2.5
ANNUAL SEVEN-DAY MINIMUM	21	22	3.1
INSTANTANEOUS PEAK FLOW		441	a886
INSTANTANEOUS PEAK STAGE		4.62	5.80
INSTANTANEOUS LOW FLOW		16	.60
ANNUAL RUNOFF (AC-FT)	49970	52760	31110
10 PERCENT EXCEEDS	197	210	109
50 PERCENT EXCEEDS	33	33	22
90 PERCENT EXCEEDS	22	23	7.5

e Estimated

a-From rating curve extended above 450 ft³/s.

RIO GRANDE BASIN

08266000 CABRESTO CREEK NEAR QUESTA, NM

LOCATION.--Lat 36°43'50", long 105°33'12", in SE¼SE¼ sec.21, T.29 N., R.13 E., Taos County, Hydrologic Unit
 from Lake Fork 3 mi northeast of Questa, and at mile 3.5.

PERIOD OF RECORD.--September 1943 to current year.

REVISED RECORDS.--WSP 1712: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 7,845 ft above National Geodetic Vertical Datum of 1929, from river-profile map.

REMARKS.--Records good. Llano ditch (station 08265500), the only diversion upstream from station, diverts from right bank 900 ft upstream from gage for irrigation of about 800 acres downstream. See tabulation below for monthly diversion of Llano ditch (records of daily discharge available in District files). Flow regulated by Cabresto Reservoir (capacity, 732 acre-feet, after reconstruction in 1928) on Lake Fork 1 mi upstream from mouth. Present capacity of Cabresto Reservoir is 1,100 acre-feet after further rehabilitation between 1959 and 1961. Several observations of water temperature were made during year.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of May 25, 1942, may have exceeded the maximum of record.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	13	8.2	8.0	6.0	5.7	10	33	113	14	12	14
2	12	13	7.9	8.1	5.9	5.8	11	32	117	13	13	12
3	12	12	7.8	8.1	6.2	6.1	11	31	110	13	12	12
4	12	12	7.3	8.1	6.3	6.3	12	31	101	13	11	12
5	12	12	7.4	7.9	6.2	6.5	12	39	94	13	11	12
6	12	11	7.4	7.9	6.2	6.7	11	54	83	12	11	13
7	12	11	7.6	6.7	6.2	7.1	11	61	69	11	11	12
8	12	11	7.6	7.0	6.1	7.1	11	61	55	11	11	12
9	12	11	7.7	7.9	6.1	6.8	11	63	49	12	11	11
10	12	11	7.7	8.0	6.0	6.5	11	56	45	15	11	11
11	12	11	7.5	7.7	5.9	6.9	11	53	41	17	12	11
12	12	11	7.6	7.8	5.8	6.8	11	58	39	14	11	11
13	12	11	7.5	7.4	5.2	6.4	11	61	36	12	11	11
14	12	11	7.0	7.4	5.7	6.7	12	70	33	11	12	12
15	12	10	7.7	7.5	5.6	7.4	13	85	31	11	12	12
16	12	9.8	7.6	7.5	5.7	8.2	15	100	29	11	11	11
17	12	9.8	7.4	7.3	5.6	9.1	19	118	27	10	11	11
18	12	9.6	7.3	7.5	5.8	10	25	137	27	9.8	10	11
19	12	9.8	7.8	7.4	5.7	11	29	160	26	10	10	11
20	12	9.0	7.6	7.3	5.7	12	30	210	25	10	11	11
21	12	8.9	6.9	7.3	5.6	11	36	253	25	10	12	10
22	12	9.5	7.5	7.3	5.7	11	37	219	23	10	11	10
23	12	10	7.0	7.3	5.1	11	44	150	20	10	10	9.9
24	12	9.6	5.9	7.3	5.6	11	53	130	18	10	10	9.9
25	12	7.5	6.2	7.3	5.8	11	57	132	16	10	10	9.9
26	12	6.7	7.5	7.4	5.9	11	49	114	15	11	10	10
27	12	6.4	8.5	7.4	5.8	9.3	44	111	15	11	10	10
28	12	7.6	8.0	7.3	5.8	9.1	40	112	15	11	9.9	9.9
29	12	8.4	8.0	7.3	---	9.8	38	117	15	12	9.9	9.8
30	12	8.4	8.0	7.2	---	9.7	35	124	14	12	10	9.7
31	12	---	8.2	7.0	---	9.8	---	109	---	11	11	---
TOTAL	373	302.0	233.3	232.6	163.2	262.8	720	3084	1326	360.8	338.8	332.1
MEAN	12.0	10.1	7.53	7.50	5.83	8.48	24.0	99.5	44.2	11.6	10.9	11.1
MAX	13	13	8.5	8.1	6.3	12	57	253	117	17	13	14
MIN	12	6.4	5.9	6.7	5.1	5.7	10	31	14	9.8	9.9	9.7
AC-FT	740	599	463	461	324	521	1430	6120	2630	716	672	659
(†)	---	---	---	---	---	---	---	674	855	416	.2	1.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1994, BY WATER YEAR (WY)

	6.51	5.33	4.59	4.48	4.58	5.48	13.5	34.1	22.4	11.3	9.66	7.67
MEAN	13.1	10.1	8.14	8.11	7.19	12.8	29.5	99.5	94.7	27.4	20.9	13.8
MAX	1986	1994	1958	1991	1991	1989	1985	1994	1979	1979	1957	1957
(WY)	1986	1994	1958	1991	1991	1989	1985	1994	1979	1979	1957	1957
MIN	2.68	2.73	2.43	2.30	2.32	2.96	6.70	7.88	5.77	4.55	4.33	2.94
(WY)	1957	1978	1964	1964	1964	1964	1973	1963	1946	1946	1956	1972

SUMMARY STATISTICS FOR 1993 CALENDAR YEAR FOR 1994 WATER YEAR WATER YEARS 1944 - 1994

ANNUAL TOTAL	5778.3	7728.6	
ANNUAL MEAN	15.8	21.2	10.8
HIGHEST ANNUAL MEAN			22.9
LOWEST ANNUAL MEAN			5.31
HIGHEST DAILY MEAN	98	May 27	253
LOWEST DAILY MEAN	3.9	Jan 4	5.1
ANNUAL SEVEN-DAY MINIMUM	5.8	Jan 21	5.6
INSTANTANEOUS PEAK FLOW			289
INSTANTANEOUS PEAK STAGE			5.41
INSTANTANEOUS LOW FLOW			1.4
ANNUAL RUNOFF (AC-FT)	11460	15330	7850
10 PERCENT EXCEEDS	30	51	17
50 PERCENT EXCEEDS	12	11	6.7
90 PERCENT EXCEEDS	6.2	6.5	3.5
e Estimated			
a-Result of freeze-up.			

CAL YR 1993 TOTAL MEAN MAX MIN AC-FT (†) 2410
 WTR YR 1994 TOTAL MEAN MAX MIN AC-FT (†) 1950
 (†) DIVERSIONS, IN ACRE-FEET, BY LLANO DITCH

RIO GRANDE BASIN

08266820 RED RIVER BELOW FISH HATCHERY, NEAR QUESTA, NM

LOCATION.--Lat 36°40'54", Long 105°39'21", in NW¼NW¼ sec.10, T.28 N., R.12 E., Tacs County, Hydrologic Unit 13020101, on right bank 0.3 mi downstream from State Fish Hatchery, 3.5 mi upstream from mouth, and 3.7 mi southwest of Questa.

DRAINAGE AREA.--185 mi².

PERIOD OF RECORD.--August 1969 to July 1978 (discharge measurements only), August 1978 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,070 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Aug. 16, 1979, at site about 250 ft upstream at datum 5.55 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 3,000 acres upstream from station. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	57	55	47	50	52	63	118	471	150	79	86
2	65	61	54	48	48	52	65	113	498	146	85	82
3	65	60	55	47	52	53	65	109	493	143	78	75
4	65	59	50	51	58	53	67	107	504	138	73	76
5	63	59	52	56	58	53	68	133	e472	130	74	71
6	64	56	50	57	54	54	64	218	e451	123	72	71
7	64	55	50	47	54	55	68	278	e430	119	70	69
8	65	55	52	50	55	59	64	290	e409	115	68	67
9	64	54	54	54	54	56	66	295	e388	110	65	66
10	65	54	56	53	53	53	66	283	e367	104	63	64
11	64	57	57	51	54	54	65	262	e346	100	68	63
12	63	59	58	51	53	54	64	286	e325	97	69	62
13	62	58	55	50	51	51	64	299	e304	93	66	63
14	62	59	45	51	53	53	70	333	e283	91	68	70
15	61	57	49	53	53	55	76	375	e262	89	69	69
16	60	55	54	54	55	59	82	430	e241	88	68	67
17	62	53	52	52	54	62	96	494	221	84	64	65
18	65	54	48	53	61	64	119	538	216	83	63	64
19	64	56	50	54	55	66	141	568	217	81	62	64
20	62	53	50	54	54	68	153	598	223	82	70	64
21	62	54	41	54	53	67	179	565	224	80	76	64
22	61	60	45	54	53	66	190	503	243	77	72	63
23	60	68	41	55	49	66	225	497	227	77	68	61
24	59	66	37	54	50	66	256	465	215	75	68	61
25	59	50	40	53	54	67	259	464	201	75	67	60
26	59	41	42	52	58	65	216	e515	184	73	66	59
27	56	41	47	51	58	60	188	e506	173	72	64	56
28	56	46	50	53	53	56	152	e500	168	73	63	55
29	57	53	48	53	---	61	137	e495	161	74	64	54
30	55	53	47	54	---	63	124	487	154	75	63	53
31	54	---	47	51	---	62	---	480	---	75	69	---
TOTAL	1908	1663	1531	1617	1507	1825	3512	11604	9071	2992	2134	1964
MEAN	61.5	55.4	49.4	52.2	53.8	58.9	117	374	302	96.5	68.8	65.5
MAX	65	68	58	57	61	68	259	598	504	150	85	86
MIN	54	41	37	47	48	51	63	107	154	72	62	53
AC-FT	3780	3300	3040	3210	2990	3620	6970	23020	17990	5930	4230	3900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1994, BY WATER YEAR (WY)

	MEAN	54.2	47.2	43.3	43.9	44.5	48.7	84.5	212	224	106	72.3	62.2
MAX	71.0	59.2	51.0	55.3	57.9	72.0	144	374	520	226	95.3	86.9	
(WY)	1986	1992	1987	1992	1992	1989	1985	1994	1979	1979	1993	1986	
MIN	29.0	33.0	28.2	31.4	31.5	35.1	39.7	50.5	56.8	43.1	42.1	31.2	
(WY)	1979	1979	1979	1979	1981	1981	1981	1981	1981	1981	1981	1978	

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1978 - 1994
ANNUAL TOTAL	37271	41328	
ANNUAL MEAN	102	113	87.2
HIGHEST ANNUAL MEAN			129
LOWEST ANNUAL MEAN			41.9
HIGHEST DAILY MEAN	437	May 27	676
LOWEST DAILY MEAN	37	Dec 24	26
ANNUAL SEVEN-DAY MINIMUM	42	Dec 21	26
INSTANTANEOUS PEAK FLOW		662	755
INSTANTANEOUS PEAK STAGE		4.53	5.30
INSTANTANEOUS LOW FLOW		29	21
ANNUAL RUNOFF (AC-FT)	73930	81970	63180
10 PERCENT EXCEEDS	230	283	172
50 PERCENT EXCEEDS	65	64	56
90 PERCENT EXCEEDS	49	51	38

e Estimated

RIO GRANDE BASIN

08267500 RIO HONDO NEAR VALDEZ, NM

LOCATION.--Lat 36°32'30", long 105°33'21", Taos County, Hydrologic Unit 13020101, in Carson National Forest, on
 right bank of Rio Hondo, about 1.5 miles above its mouth, 2.5 miles above its confluence with the Rio Grande,
 mile 8.2.

DRAINAGE AREA.--36.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1934 to current year.

REVISED RECORDS.--WSP 1342: 1935. WSP 1712: Drainage area. WSP 1732: 1942(M).

GAGE.--Water-stage recorder. Concrete control since Oct. 28, 1938. Elevation of gage is 7,650 ft above National
 Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 28, 1938, at datum 1.92 ft lower.

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	24	18	e16	e12	e12	32	63	250	117	37	42
2	28	22	17	e15	e13	e11	34	60	282	111	35	34
3	27	22	17	e14	e12	e16	34	57	290	104	33	29
4	27	22	e15	e14	e11	e19	38	59	292	97	32	29
5	27	22	16	13	e10	23	37	78	259	90	32	28
6	27	22	17	e14	e9.8	23	35	122	244	85	31	27
7	29	21	15	e15	e9.5	25	33	140	248	81	30	26
8	28	21	15	e11	e9.5	23	31	141	224	77	30	26
9	28	19	15	e12	e9.6	20	30	133	193	72	29	25
10	26	17	15	e10	e9.7	19	28	131	180	68	29	26
11	26	19	15	e9.6	e9.8	19	27	120	178	65	29	26
12	25	19	17	e10	e9.7	18	26	127	181	62	29	27
13	25	19	16	e11	e9.4	17	28	135	180	59	29	28
14	25	17	e13	12	e9.5	19	36	149	183	56	30	30
15	25	21	e14	8.5	e9.7	25	41	155	185	55	29	28
16	24	19	18	8.7	e9.5	34	50	186	177	53	28	27
17	30	18	20	12	e9.6	41	64	241	169	51	26	26
18	27	18	e14	9.1	e10	46	79	226	164	51	25	26
19	25	18	17	9.4	e9.8	52	98	226	163	50	26	25
20	25	19	18	9.2	e9.6	53	111	242	162	49	32	25
21	24	20	e16	9.1	e9.2	46	124	218	165	48	30	25
22	24	18	e20	9.1	e9.2	45	127	209	179	45	26	24
23	24	27	e16	9.3	e9.7	43	142	197	167	43	24	24
24	24	e23	e15	9.3	e10	40	154	201	163	42	25	23
25	23	e20	e16	9.3	e9.3	37	149	210	158	41	24	23
26	22	e13	e18	8.4	e10	36	130	201	154	39	23	22
27	20	e14	e20	9.7	e12	32	99	176	150	38	23	22
28	22	e15	e18	11	e12	30	80	167	144	38	22	21
29	21	e15	e17	9.3	---	28	72	181	138	38	23	21
30	22	18	e17	9.5	---	27	65	191	128	37	22	20
31	23	---	e16	13	---	29	---	209	---	36	24	---
TOTAL	781	582	511	340.5	284.1	908	2034	4951	5750	1898	867	785
MEAN	25.2	19.4	16.5	11.0	10.1	29.3	67.8	160	192	61.2	28.0	26.2
MAX	30	27	20	16	13	53	154	242	292	117	37	42
MIN	20	13	13	8.4	9.2	11	26	57	128	36	22	20
AC-FT	1550	1150	1010	675	564	1800	4030	9820	11410	3760	1720	1560

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1994, BY WATER YEAR (WY)

	MEAN	18.6	14.9	12.2	10.8	10.7	14.2	35.1	97.5	114	48.1	29.1	22.5
MAX	43.5	35.8	23.1	20.1	16.6	36.4	92.4	246	299	144	60.3	53.2	
(WY)	1942	1942	1942	1942	1942	1989	1937	1941	1979	1979	1957	1993	
MIN	10.8	8.28	7.52	6.03	6.08	7.60	11.1	20.6	26.4	14.6	10.9	9.87	
(WY)	1957	1952	1964	1935	1935	1964	1977	1971	1963	1972	1972	1956	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1935 - 1994

ANNUAL TOTAL	20725.2	19691.6											
ANNUAL MEAN	56.8	53.9											
HIGHEST ANNUAL MEAN										35.7			
LOWEST ANNUAL MEAN										69.9			1942
HIGHEST DAILY MEAN	267	Jun 3	292	Jun 4	416	May 13	1941			15.6			1971
LOWEST DAILY MEAN	9.0	Jan 13	8.4	Jan 26	3.0	Jan 21	1935			4.2			1935
ANNUAL SEVEN-DAY MINIMUM	10	Jan 8	9.1	Jan 20	4.2	Jan 18	1935			541			1941
INSTANTANEOUS PEAK FLOW			327	Jun 3		May 13	1941			4.89			1994
INSTANTANEOUS PEAK STAGE			3.66	Jun 3		Feb 2	1994			a1.0			1942
INSTANTANEOUS LOW FLOW			6.4	Jan 10						25860			
ANNUAL RUNOFF (AC-FT)	41110	39060								86			
10 PERCENT EXCEEDS	166	164								18			
50 PERCENT EXCEEDS	28	26								9.9			
90 PERCENT EXCEEDS	11	10											

e Estimated

a-Result of freeze-up.

RIO GRANDE BASIN

08267500 RIO HONDO NEAR VALDEZ, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD to current year.--Water years 1963, 1986 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	
NOV 1993											
09...	1115	19	154	7.3	4.0	2.0	580	13.5	129	<10	
JAN 1994											
19...	1150	10	161	7.0	0.5	0.0	576	11.0	100	--	
MAR											
09...	1030	20	168	7.1	-3.0	2.0	576	10.2	98	<10	
JUN											
03...	1015	269	93	7.3	19.0	6.0	580	9.2	97	11	
JUL											
06...	1240	84	115	7.7	26.5	10.5	574	--	--	<10	
SEP											
07...	1050	27	138	7.7	18.5	8.5	582	8.8	99	<10	
DATE		HARD-NESS TOTAL (MG/L AS CAC03) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CAC03 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD HCO3 (MG/L AS) (00453)	CAR-BONATE WATER DIS IT FIELD CO3 (MG/L AS) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD CAC03 (MG/L AS) (39086)
NOV 1993											
09...	67	13	23	2.3	3.1	0.2	0.80	66	0	54	
JAN 1994											
19...	--	--	--	--	--	--	--	--	--	--	--
MAR											
09...	64	11	22	2.3	5.5	0.3	0.90	65	0	54	
JUN											
03...	44	8	15	1.5	1.6	0.1	0.60	44	0	36	
JUL											
06...	52	8	18	1.7	1.9	0.1	0.60	54	0	44	
SEP											
07...	--	--	--	--	--	--	--	--	--	--	--
DATE		ALKA-LINITY LAB (MG/L AS CAC03) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
NOV 1993											
<0.20	09...	58	13	1.9	0.20	8.0	86	<0.010	0.180	0.010	
JAN 1994											
<0.20	19...	--	--	--	--	--	--	<0.010	0.380	0.020	
MAR											
<0.20	09...	57	13	7.1	0.10	8.3	93	<0.010	0.310	0.030	
JUN											
0.30	03...	36	7.8	0.70	0.10	7.1	57	<0.010	0.140	<0.010	
JUL											
<0.20	06...	46	10	1.0	0.10	6.7	67	<0.010	0.110	0.020	
SEP											
<0.20	07...	--	--	--	--	--	--	<0.010	0.150	0.020	

RIO GRANDE BASIN

08267500 RIO HONDO NEAR VALDEZ, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA. WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 1993									
09...	<0.010	--	<0.010	0.6	<10	<3	14	0.72	26
JAN 1994									
19...	<0.010	--	<0.010	0.6	--	--	6	0.16	100
MAR									
09...	0.020	--	<0.010	1.6	10	24	7	0.38	51
JUN									
03...	0.040	--	<0.010	5.1	<10	22	164	119	32
JUL									
06...	<0.010	--	<0.010	0.8	<10	5	14	3.2	43
SEP									
07...	<0.010	<0.010	0.010	0.9	--	--	13	0.95	38

RIO GRANDE BASIN

08268700 RIO GRANDE NEAR ARROYO HONDO, NM

LOCATION.--Lat 36°32'04", long 105°42'34", in NW¼ sec.31, T.27 N., R.12 E., Taos County, Hydrologic Unit 13020101, on right bank 350 ft downstream from Arroyo Hondo, 400 ft downstream from bridge on county road, 2.2 mi west of Arroyo Hondo, 11.6 mi northwest of Taos, and at mile 1,677.4.

DRAINAGE AREA.--8,760 mi², approximately, including 2,940 mi² in closed basin in San Luis Valley, CO.

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,470 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. Diversions upstream from station for irrigation of about 620,000 acres in Colorado and 15,000 acres in New Mexico. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	314	378	533	540	464	664	536	781	2240	693	244	246
2	307	440	556	541	463	706	513	725	2480	653	254	267
3	291	434	591	532	480	747	514	683	2780	590	236	249
4	290	489	584	530	503	763	540	658	2960	538	224	259
5	281	515	556	549	508	798	558	720	2630	516	227	254
6	285	482	548	570	498	832	559	834	2560	476	221	263
7	304	445	541	530	505	885	600	1080	2480	441	216	310
8	302	427	558	529	530	907	569	1310	2220	413	213	335
9	285	415	568	548	514	887	561	1640	1890	388	210	320
10	275	411	565	531	507	883	550	1740	1660	354	208	297
11	289	429	578	512	525	839	549	1800	1540	340	211	287
12	317	440	598	513	518	805	546	1680	1490	328	230	275
13	334	433	613	509	505	781	557	1540	1420	308	216	266
14	355	447	539	506	508	783	566	1720	1410	293	230	262
15	374	463	466	505	542	748	555	2090	1400	280	249	260
16	359	467	476	511	538	759	576	2360	1300	272	233	248
17	358	454	430	491	551	762	659	2460	1200	260	240	241
18	353	449	439	490	611	760	770	2500	1120	256	237	231
19	341	450	509	491	590	768	895	2690	1040	251	234	228
20	357	469	526	488	556	822	946	2770	991	250	237	238
21	357	485	494	489	557	817	953	2680	1010	257	260	237
22	356	521	502	490	596	794	945	2550	1270	252	241	231
23	356	561	478	494	573	728	1100	2290	1330	246	233	230
24	344	596	464	501	532	686	1250	2030	1520	243	227	223
25	340	612	460	507	609	652	1510	2000	1710	269	224	220
26	340	538	492	518	681	622	1670	2140	1540	253	218	214
27	329	336	505	524	676	616	1510	2300	1190	248	219	210
28	328	402	520	524	652	565	1170	2290	992	249	214	205
29	356	487	534	520	---	556	973	2100	876	240	224	204
30	362	508	540	514	---	543	844	2100	772	234	216	202
31	314	---	542	493	---	519	---	2090	---	240	216	---
TOTAL	10153	13983	16305	15990	15292	22997	24044	56351	49021	10631	7062	7512
MEAN	328	466	526	516	546	742	801	1818	1634	343	228	250
MAX	374	612	613	570	681	907	1670	2770	2960	693	260	335
MIN	275	336	430	488	463	519	513	658	772	234	208	202
AC-FT	20140	27740	32340	31720	30330	45610	47690	111800	97230	21090	14010	14900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1994, BY WATER YEAR (WY)

	MEAN	365	528	433	426	486	668	797	1351	1565	690	395	331
MAX	905	1200	832	640	758	1077	2620	5542	5013	2487	941	988	
(WY)	1970	1987	1987	1986	1987	1987	1985	1987	1985	1979	1968	1982	
MIN	155	220	210	260	292	369	220	203	168	158	168	158	
(WY)	1978	1978	1964	1977	1964	1964	1967	1977	1977	1963	1977	1974	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1963 - 1994

ANNUAL TOTAL	313358	249341		
ANNUAL MEAN	859	683		
HIGHEST ANNUAL MEAN			680	
LOWEST ANNUAL MEAN			1522	1987
HIGHEST DAILY MEAN	4550	May 30	2960	Jun 4
LOWEST DAILY MEAN	275	Oct 10	202	Sep 30
ANNUAL SEVEN-DAY MINIMUM	289	Oct 5	211	Sep 24
INSTANTANEOUS PEAK FLOW			3040	Jun 4
INSTANTANEOUS PEAK STAGE			5.16	Jun 4
INSTANTANEOUS LOW FLOW			198	Sep 30
ANNUAL RUNOFF (AC-FT)	621500	494600		
10 PERCENT EXCEEDS	1850	1540		
50 PERCENT EXCEEDS	534	514		
90 PERCENT EXCEEDS	328	237		

RIO GRANDE BASIN

08269000 RIO PUEBLO DE TAOS NEAR TAOS. NM

LOCATION.--Lat 36°26'22", long 105°30'11", in SW¼sec.36, T.26 N., R.13 E., Taos County, Hydrologic Unit 13020101, in Taos Pueblo Grant, on right bank 2.3 mi east of Taos Pueblo, 4.5 mi northeast of Taos, 5.8 mi upstream from Rio Lucero, and at mile 13.1.

DRAINAGE AREA, - 90.0 MI².

PERIOD OF RECORD.--January 1911 to December 1916, January 1940 to December 1951, (annual maximum), water years 1952-62, October 1962 (monthly discharge only), November 1962 to current year. Monthly discharge only for some periods. published in WSP 1312.

REVISED RECORDS.--WSP 1312: 1911-12, 1914. WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Concrete control since Nov. 20, 1962. Elevation of gage is 7,380 ft above National Geodetic Vertical Datum of 1929, from topographic map. See WSP 1923 for history of changes prior to Nov. 20, 1962.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversions upstream from station. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	e10	e9.0	11	8.7	30	77	261	46	23	28
2	12	12	10	9.1	e12	8.7	36	75	274	42	21	26
3	12	11	10	e9.2	9.0	10	35	76	266	40	18	21
4	12	11	12	9.4	8.3	12	39	84	261	37	17	20
5	12	11	11	9.2	8.0	15	41	126	246	35	17	18
6	12	9.2	11	9.0	7.6	16	35	220	219	33	16	18
7	13	9.6	11	10	7.2	18	32	277	198	31	15	21
8	13	9.8	12	e9.1	7.1	16	31	270	178	29	15	19
9	13	10	10	e9.4	7.1	15	32	274	163	28	14	18
10	12	9.4	9.7	e9.0	7.7	14	29	246	151	26	14	17
11	12	11	9.6	e8.8	7.2	13	27	220	145	25	15	16
12	12	11	9.9	e8.9	6.9	13	27	246	138	25	15	16
13	11	11	10	e9.0	e7.0	12	29	284	130	24	14	18
14	11	10	e9.0	e9.5	e7.1	13	39	320	126	24	17	19
15	12	11	e9.2	10	e7.1	18	53	329	118	22	20	17
16	11	12	10	9.8	e7.2	28	70	335	106	22	17	15
17	13	9.8	9.6	e9.0	7.2	38	98	369	98	21	15	15
18	14	10	e9.0	e9.4	7.4	45	139	364	94	21	14	15
19	12	11	10	e9.6	7.5	53	179	382	91	20	14	15
20	12	8.9	9.8	e9.7	7.5	54	197	456	91	19	20	14
21	11	9.7	e9.0	e9.8	7.3	46	202	386	91	20	21	14
22	11	11	10	e10	7.2	43	209	322	92	19	17	14
23	11	18	e9.5	e10	8.4	44	265	307	83	19	15	13
24	11	22	e9.0	e10	10	41	307	307	76	18	15	13
25	11	12	10	e10	7.3	36	310	305	70	19	15	13
26	10	e11	e9.0	e10	8.0	33	204	274	65	17	15	12
27	9.9	e11	e9.1	e9.8	8.9	28	142	242	60	17	14	12
28	11	e11	9.7	e10	9.0	26	108	225	56	18	13	12
29	10	e10	8.6	11	---	23	92	236	53	20	13	11
30	8.0	e10	9.3	11	---	22	82	247	50	20	13	11
31	11	---	e9.0	11	---	24	---	245	---	19	15	---
TOTAL	358.9	336.4	305.0	298.7	223.2	786.4	3119	8126	4050	776	497	491
MEAN	11.6	11.2	9.84	9.64	7.97	25.4	104	262	135	25.0	16.0	16.4
MAX	14	22	12	11	12	54	310	456	274	46	23	28
MIN	8.0	8.9	8.6	8.8	6.9	8.7	27	75	50	17	13	11
AC-FT	712	667	605	592	443	1560	6190	16120	8030	1540	986	974

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1994, BY WATER YEAR (WY)

MEAN	9.79	8.99	7.94	6.94	7.42	13.2	51.9	121	74.1	22.9	15.6	11.7
MAX	19.1	17.5	12.5	11.1	13.0	39.7	155	356	268	74.8	32.2	32.4
(WY)	1942	1942	1992	1984	1913	1989	1942	1941	1979	1979	1991	1982
MIN	4.84	4.80	4.05	3.39	3.64	5.58	13.1	11.3	8.64	4.60	4.45	4.17
(WY)	1965	1982	1964	1964	1964	1964	1971	1972	1972	1972	1972	1972

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1913 - 1994
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ANNUAL TOTAL	14831.7		19367.6					
ANNUAL MEAN	40.6		53.1			30.3		
HIGHEST ANNUAL MEAN						72.3		1979
LOWEST ANNUAL MEAN						7.74		1972
HIGHEST DAILY MEAN	260	May 27	456	May 20		926		May 26 1979
LOWEST DAILY MEAN	6.5	Jan 5	6.9	Feb 12		2.0		Dec 3 1950
ANNUAL SEVEN-DAY MINIMUM	7.1	Jan 4	7.1	Feb 11		2.8		Jan 29 1990
INSTANTANEOUS PEAK FLOW			486	May 19		a1050		May 26 1979
INSTANTANEOUS PEAK STAGE			2.74	May 19		b3.90		May 14 1941
INSTANTANEOUS LOW FLOW			2.9	Feb 25		.69		Feb 27 1991
ANNUAL RUNOFF (AC-FT)	29420		38420			21970		
10 PERCENT EXCEEDS	119		206			72		
50 PERCENT EXCEEDS	18		15			11		
90 PERCENT EXCEEDS	8.8		9.0			5.8		

e Estimated

a-From rating curve extended above 370 ft³/s.

b-From floodmark, site and datum then in use.

RIO GRANDE BASIN

08271000 RIO LUCERO NEAR ARROYO SECO, NM

LOCATION.--Lat 36°30'30", long 105°31'49", Taos County, Hydrologic Unit 13020101, in Tract C Taos Pueblo Grant, on right bank 200 ft upstream from diversion dam for Tenorio and Indian ditches, 2.2 mi east of Arroyo Seco, 7.4 mi northeast of Taos, and at mile 8.1.

DRAINAGE AREA.--16.6 mi².

PERIOD OF RECORD.--April to December 1910 (discharge measurements and occasional gage heights), January 1911 to September 1915, March to December 1916 (fragmentary), October 1933 to December 1951, (annual maximum), water years 1952-62, October 1962 (monthly discharge only), November 1962 to current year. Monthly discharge only for some periods, published in WSP 1312. Fragmentary records for October 1915 to February 1916, published in WSP 438, are unreliable and should not be used. Published as "near Taos," 1910-16.

REVISED RECORDS.--WSP 1512: 1912, 1916, 1949. WSP 1732: Drainage area. WDR NM-75-1: 1973. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Concrete control since Nov. 21, 1962. Datum of gage is 8,051.44 ft above National Geodetic Vertical Datum of 1929. See WSP 1923 for history of changes prior to Nov. 21, 1962.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	13	11	7.2	6.2	9.1	17	30	157	62	21	19
2	16	12	10	7.1	e8.7	9.2	18	29	157	58	20	18
3	16	11	8.9	7.1	e6.9	11	19	30	179	54	18	18
4	16	11	11	7.1	e6.0	13	20	31	172	50	17	20
5	16	10	11	6.8	e6.5	15	20	42	186	47	16	18
6	15	10	12	6.5	e6.2	17	18	67	160	43	16	18
7	16	13	10	6.4	e6.4	17	17	81	149	40	15	19
8	15	11	8.6	e6.5	e6.0	17	16	81	142	38	15	18
9	15	10	8.6	6.9	e6.0	16	15	81	140	36	15	17
10	15	10	8.4	7.5	e6.1	14	14	71	138	35	15	17
11	14	10	8.4	7.6	e6.1	14	13	64	138	33	15	16
12	14	9.7	8.5	7.7	e6.0	14	14	70	133	32	14	16
13	14	10	8.4	7.9	e6.2	13	15	81	130	31	14	18
14	14	9.2	8.3	7.2	e6.0	13	21	94	132	30	15	19
15	14	10	8.3	7.6	6.0	16	24	99	130	29	15	18
16	13	9.6	8.4	6.9	e7.0	21	30	101	121	28	14	17
17	15	9.7	8.1	6.3	e7.0	25	40	129	115	29	13	16
18	14	9.5	8.1	6.1	e7.8	28	53	122	114	27	13	16
19	14	9.3	8.1	6.2	8.3	31	61	124	112	26	13	16
20	13	9.3	8.0	6.1	7.7	29	63	145	111	25	14	15
21	13	9.5	7.7	6.1	7.6	25	63	146	106	24	16	15
22	13	10	7.7	6.0	7.5	24	62	128	127	24	15	15
23	13	13	7.7	6.1	7.4	23	70	133	115	23	14	15
24	12	11	7.5	6.1	8.3	21	80	145	107	22	13	14
25	12	8.6	7.6	6.1	7.7	19	78	142	100	21	13	14
26	12	e7.5	7.6	6.1	8.3	18	61	134	94	21	13	14
27	11	e8.8	7.5	6.3	9.1	17	48	107	88	20	13	14
28	12	e9.5	7.4	6.2	9.5	15	39	100	81	20	13	13
29	11	e9.6	7.4	6.3	---	14	34	111	73	19	13	13
30	11	e9.8	7.4	6.4	---	14	31	132	67	19	13	13
31	12	---	7.3	6.2	---	15	---	132	---	19	13	---
TOTAL	428	304.6	264.9	206.6	198.5	547.3	1074	2982	3774	985	457	489
MEAN	13.8	10.2	8.55	6.66	7.09	17.7	35.8	96.2	126	31.8	14.7	16.3
MAX	17	13	12	7.9	9.5	31	80	146	186	62	21	20
MIN	11	7.5	7.3	6.0	6.0	9.1	13	29	67	19	13	13
AC-FT	849	604	525	410	394	1090	2130	5910	7490	1950	906	970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1994, BY WATER YEAR (WY)

	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
MEAN	11.7	9.11	7.28	6.06	6.01	9.09	22.9	60.1	71.7	29.9	18.5	14.0
MAX	27.8	22.0	14.8	10.0	9.92	21.2	47.5	156	178	96.6	37.5	34.5
(WY)	1942	1942	1991	1942	1991	1989	1937	1941	1941	1941	1967	1982
MIN	6.29	5.37	4.26	3.51	3.47	4.11	8.77	14.5	14.0	7.86	6.55	6.74
(WY)	1979	1977	1951	1951	1964	1977	1977	1972	1972	1972	1972	1972

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1913 - 1994

ANNUAL TOTAL	11397.1	11710.9	
ANNUAL MEAN	31.2	32.1	22.5
HIGHEST ANNUAL MEAN			46.7
LOWEST ANNUAL MEAN			9.91
HIGHEST DAILY MEAN	116	Jun 24	246
LOWEST DAILY MEAN	5.3	Jan 11	2.0
ANNUAL SEVEN-DAY MINIMUM	5.5	Jan 6	2.7
INSTANTANEOUS PEAK FLOW			310
INSTANTANEOUS PEAK STAGE			3.12
INSTANTANEOUS LOW FLOW			1.4
ANNUAL RUNOFF (AC-FT)	22610	23230	16310
10 PERCENT EXCEEDS	92	107	54
50 PERCENT EXCEEDS	16	15	11
90 PERCENT EXCEEDS	6.5	7.0	5.5

e Estimated

RIO GRANDE BASIN

08275500 RIO GRANDE DEL RANCHO NEAR TALPA, NM

LOCATION.--Lat 36°17'52", long 105°34'55", Taos County, Hydrologic Unit 13020101, in Carson National Forest, Rancho del Rio Grande Grant, on right bank 1.4 mi downstream from Rito de la olla (locally known as Pot Creek), 3.2 mi south of Talpa, 7.0 mi upstream from Rio Chiquito, and at mile 0.7.

DRAINAGE AREA. 33 mi², approximately.

PERIOD OF RECORD.--October 1952 to September 1982, October 1983 to September 1985 (annual maximum only), October 1985 to current year. Prior to October 1955, published as "Rio Grande del Rancho nr Taos" and October 1955 to September 1960 as Rio Grande de Ranchos nr Talpa."

GAGE.--Water-stage recorder. Elevation of gage is 7,240 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 11, 1952, nonrecording gage at site 1,035 ft downstream at lower datum. Nov. 11, 1952 to Nov. 5, 1968, water-stage recorder at site 1,000 ft downstream at lower datum. Nov. 6, 1968 to Aug. 28, 1980, water-stage recorder at present site on left bank at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Minor diversions for irrigation above station. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	8.8	7.6	6.8	e6.0	8.1	29	69	268	26	15	18
2	8.1	8.8	7.5	6.2	e5.6	8.5	32	69	269	25	14	16
3	7.9	8.4	7.1	6.2	e5.8	9.4	29	66	245	24	13	12
4	7.9	8.4	6.8	6.4	e5.8	11	31	74	228	22	12	13
5	7.8	8.2	7.1	6.4	e6.2	12	32	82	210	21	13	11
6	7.6	7.6	7.1	5.9	e6.2	13	29	127	183	20	14	11
7	8.3	6.9	7.1	5.7	7.1	14	29	177	157	20	12	8.1
8	8.9	7.4	6.7	6.6	e6.0	14	27	187	136	19	12	6.7
9	8.6	7.5	6.5	7.8	e6.0	13	28	199	120	19	11	6.0
10	8.4	7.4	6.5	8.0	6.1	12	31	191	105	18	9.4	5.5
11	8.2	8.0	6.4	8.8	6.1	13	27	183	96	17	14	5.2
12	8.1	8.7	6.6	7.8	6.0	12	31	212	88	17	16	5.7
13	8.0	8.4	6.2	8.4	6.0	11	38	253	80	16	10	11
14	8.1	8.8	5.5	8.3	6.6	13	43	268	76	16	16	21
15	8.3	8.3	6.9	8.3	7.2	17	45	292	74	16	15	15
16	8.0	8.1	7.3	8.1	6.9	22	49	351	70	16	13	9.8
17	9.3	7.4	6.8	8.1	6.4	30	59	391	64	15	9.6	8.2
18	10	7.6	6.5	8.2	7.4	34	68	399	59	15	8.2	7.8
19	9.1	8.0	7.1	8.0	6.9	40	77	457	59	14	8.1	8.0
20	8.5	7.0	6.5	7.7	6.5	50	82	508	60	14	14	8.2
21	8.3	6.8	5.6	7.7	6.2	40	82	466	56	15	14	8.6
22	8.1	8.0	7.0	7.6	6.0	36	90	405	50	14	12	8.2
23	7.9	15	6.8	7.4	6.4	37	114	364	45	14	8.9	8.4
24	7.9	14	6.4	7.3	6.8	36	133	346	42	14	11	8.1
25	8.0	8.8	6.5	7.0	7.6	33	152	353	38	17	14	8.0
26	8.2	5.4	7.4	6.7	8.2	34	114	349	35	14	11	8.3
27	7.9	6.5	7.1	6.7	8.7	30	93	295	33	15	16	8.5
28	7.8	8.6	6.6	6.5	8.4	25	81	258	31	15	9.9	8.3
29	8.7	9.4	6.3	e6.1	---	25	75	256	30	14	8.4	8.0
30	7.9	8.1	6.3	e5.9	---	29	70	271	29	14	7.3	8.0
31	8.1	---	6.8	e6.0	---	28	---	269	---	14	8.4	---
TOTAL	256.0	250.3	208.6	222.6	185.1	710.0	1820	8187	3036	530	370.2	289.6
MEAN	8.26	8.34	6.73	7.18	6.61	22.9	60.7	264	101	17.1	11.9	9.65
MAX	10	15	7.6	8.8	8.7	50	152	508	269	26	16	21
MIN	7.6	5.4	5.5	5.7	5.6	8.1	27	66	29	14	7.3	5.2
AC-FT	508	496	414	442	367	1410	3610	16240	6020	1050	734	574

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1994, BY WATER YEAR (WY)

	7.34	6.51	5.74	5.24	5.56	9.22	32.6	94.0	51.0	14.4	12.6	8.99
MEAN	7.34	6.51	5.74	5.24	5.56	9.22	32.6	94.0	51.0	14.4	12.6	8.99
MAX	14.2	11.8	10.4	9.19	9.31	22.9	91.9	264	170	41.9	35.7	24.9
(WY)	1958	1987	1958	1958	1989	1994	1962	1994	1979	1986	1957	1957
MIN	2.12	2.95	2.97	2.06	2.65	4.65	9.61	12.9	6.36	3.14	2.33	1.56
(WY)	1957	1957	1957	1955	1955	1955	1981	1981	1981	1956	1972	1956

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1953 - 1994

ANNUAL TOTAL	10105.4	16065.4	
ANNUAL MEAN	27.7	44.0	
HIGHEST ANNUAL MEAN			21.2
LOWEST ANNUAL MEAN			44.0
HIGHEST DAILY MEAN	216	May 27	5.96
LOWEST DAILY MEAN	5.3	Jan 25	590
ANNUAL SEVEN-DAY MINIMUM	6.3	Dec 8	1.2
INSTANTANEOUS PEAK FLOW			644
INSTANTANEOUS PEAK STAGE			4.16
INSTANTANEOUS LOW FLOW			.20
ANNUAL RUNOFF (AC-FT)	20040	31870	15340
10 PERCENT EXCEEDS	62	123	50
50 PERCENT EXCEEDS	10	10	8.0
90 PERCENT EXCEEDS	6.8	6.4	4.0

e Estimated

RIO GRANDE BASIN

08276300 RIO PUEBLO DE TAOS BELOW LOS CORDOVAS, NM

LOCATION.--Lat 36°22'39", long 105°40'05", Taos County, Hydrologic Unit 13020101, in Gijosa Grant, on left bank 1.9 mi southwest of Los Cordovas, 2.5 mi downstream from Rio Grande del Rancho, and at mile 5.1.

DRAINAGE AREA.--380 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1957 to current year.

REVISED RECORDS.--WSP 1732: 1957(M). WSP 1923: 1957(P), 1958. WDR NM-81-1: 1979(P).

GAGE.--Water-stage recorder. Elevation of gage is 6,650 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Sept. 4, 1984 at site 700 ft downstream at same datum.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 12,000 acres upstream from station, of which about 1,700 acres are irrigated by water from Rio Hondo. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	55	55	e51	55	47	153	656	808	75	16	50
2	36	56	54	e52	55	46	169	632	854	70	16	49
3	36	52	55	e54	e48	53	165	607	877	64	17	43
4	36	50	50	54	53	56	177	595	882	60	15	48
5	34	49	51	47	50	60	194	629	825	50	14	37
6	33	47	51	46	48	62	186	838	708	41	15	36
7	37	44	51	40	50	76	166	e790	605	28	14	37
8	36	45	53	e48	52	148	114	e750	498	24	14	36
9	39	45	50	e50	50	101	138	e725	436	25	15	29
10	38	44	51	e45	49	80	137	784	399	17	15	27
11	36	47	51	e47	48	84	160	785	378	18	14	26
12	35	56	51	e50	46	71	161	843	331	28	14	27
13	36	57	49	e51	41	63	139	1160	312	19	14	32
14	36	58	51	e48	43	63	174	1400	281	16	16	40
15	39	54	54	52	46	67	214	1320	277	17	18	42
16	40	55	55	40	46	70	222	1380	258	16	17	32
17	45	53	57	38	49	67	270	1560	242	16	15	31
18	51	51	53	43	84	97	460	1520	229	15	15	30
19	47	50	48	41	53	120	607	1620	231	14	16	32
20	45	46	47	42	48	163	620	1940	e230	13	25	29
21	46	45	53	42	45	157	578	1820	e225	14	30	27
22	46	47	56	43	42	147	519	1440	e222	14	25	28
23	45	74	50	43	40	164	637	1240	e218	13	24	28
24	43	91	55	44	42	162	765	1220	215	13	22	21
25	44	59	54	45	45	159	1340	1160	197	13	29	21
26	44	46	52	44	48	143	1310	1110	177	12	23	22
27	45	45	54	43	47	159	1030	970	149	13	22	21
28	46	48	e56	43	47	143	883	868	128	14	21	24
29	49	54	e56	44	---	159	786	859	107	15	21	23
30	49	57	e55	44	---	e142	724	887	92	15	20	23
31	51	---	e52	44	---	136	---	834	---	15	24	---
TOTAL	1279	1580	1630	1418	1370	3265	13198	32942	11391	777	576	951
MEAN	41.3	52.7	52.6	45.7	48.9	105	440	1063	380	25.1	18.6	31.7
MAX	51	91	57	54	84	164	1340	1940	882	75	30	50
MIN	33	44	47	38	40	46	114	595	92	12	14	21
AC-FT	2540	3130	3230	2810	2720	6480	26180	65340	22590	1540	1140	1890

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1994, BY WATER YEAR (WY)

	MEAN	26.2	32.2	33.7	32.1	37.5	48.1	120	260	137	28.2	25.4	23.9
MAX	74.9	71.9	56.8	47.3	60.3	105	440	1063	708	113	97.9	67.5	
(WY)	1958	1958	1987	1985	1987	1994	1994	1994	1979	1979	1957	1993	
MIN	7.88	14.3	13.5	14.0	21.5	23.9	8.32	5.71	4.69	3.89	4.28	4.26	
(WY)	1964	1973	1973	1973	1973	1971	1972	1972	1971	1972	1972	1972	

SUMMARY STATISTICS FOR 1993 CALENDAR YEAR FOR 1994 WATER YEAR WATER YEARS 1957 - 1994

ANNUAL TOTAL	35976	70377	
ANNUAL MEAN	98.6	193	66.4
HIGHEST ANNUAL MEAN			193
LOWEST ANNUAL MEAN			14.5
HIGHEST DAILY MEAN	620	May 28	1940
LOWEST DAILY MEAN	15	Jul 28	12
ANNUAL SEVEN-DAY MINIMUM	16	Jul 25	13
INSTANTANEOUS PEAK FLOW			2260
INSTANTANEOUS PEAK STAGE			8.88
INSTANTANEOUS LOW FLOW			10
ANNUAL RUNOFF (AC-FT)	71360	139600	48090
10 PERCENT EXCEEDS	207	735	133
50 PERCENT EXCEEDS	55	50	32
90 PERCENT EXCEEDS	34	17	9.9

e Estimated

a-From rating curve extended above 900 ft³/s.

RIO GRANDE BASIN

08276300 RIO PUEBLO DE TAOS BELOW LOS CORDOVAS, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD 1966 TO CURRENT YEAR.--water years 1961, 1966 TO CURRENT YEAR.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)
NOV 1993										
09...	1400	45	470	8.3	13.5	8.0	605	10.4	111	<10
JAN 1994										
19...	1345	54	440	7.8	11.5	2.0	599	11.0	101	<10
MAR										
10...	1130	78	470	8.0	16.0	6.0	599	10.2	105	14
JUN										
02...	1115	868	180	7.9	23.0	11.0	603	8.6	99	11
30...	1518	83	283	8.5	27.0	17.5	--	--	--	--
JUL										
07...	1040	34	428	8.4	23.0	17.5	594	--	--	10
AUG										
28...	1120	25	528	8.6	27.0	19.5	602	9.1	126	--
SEP										
07...	1250	41	465	8.5	24.5	20.0	603	9.5	133	14

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)
NOV 1993										
09...	210	26	62	13	18	0.5	1.3	222	0	182
JAN 1994										
19...	--	--	--	--	--	--	--	--	--	--
MAR										
10...	210	25	60	14	18	0.5	2.1	223	0	183
JUN										
02...	86	13	27	4.4	3.2	0.2	--	88	0	72
30...	--	--	--	--	--	--	--	142	6	127
JUL										
07...	200	41	61	12	15	0.5	1.1	196	--	174
AUG										
28...	--	--	--	--	--	--	--	120	4	106
SEP										
07...	--	--	--	--	--	--	--	--	--	--

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
NOV 1993										
09...	189	53	8.4	0.50	14	281	0.170	0.030	0.200	0.110
JAN 1994										
19...	--	--	--	--	--	--	0.330	0.020	0.350	0.200
MAR										
10...	193	51	11	0.40	15	282	0.190	0.010	0.200	0.120
JUN										
02...	76	13	1.4	0.10	8.2	107	--	<0.010	<0.050	0.010
30...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	185	40	4.8	0.50	14	245	--	<0.010	<0.050	0.020
AUG										
28...	--	--	--	--	--	--	--	--	--	--
SEP										
07...	--	--	--	--	--	--	0.080	0.060	0.140	0.220

RIO GRANDE BASIN

08276300 RIO PUEBLO DE TAOS BELOW LOS CORDOVAS, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 1993										
09...	0.20	0.050	--	0.040	2.3	50	6	7	0.84	81
JAN 1994										
19...	0.40	0.070	--	0.060	2.6	--	--	23	3.3	73
MAR										
10...	0.50	0.050	--	0.030	4.8	50	76	27	5.7	74
JUN										
02...	0.40	0.100	--	<0.010	8.1	20	36	222	520	42
30...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	<0.20	<0.010	--	<0.010	2.8	40	<3	19	1.7	63
AUG										
28...	--	--	--	--	--	--	--	--	--	--
SEP										
07...	0.50	0.060	0.080	0.050	3.2	--	--	22	2.4	44

RIO GRANDE BASIN

08276500 RIO GRANDE BELOW TAOS JUNCTION BRIDGE, NEAR TAOS, NM

(Surveillance network station)

LOCATION --At 26°10'12" N 106°45'11" W, 1.7 mi upstream from bridge on State Highway 567. 2.0 mi downstream from Rio Pueblo de
13020101, on left bank 1.7 mi downstream from bridge on State Highway 567. 2.0 mi downstream from Rio Pueblo de

DRAINAGE AREA.--9,730 mi², approximately, including 2,940 mi² in closed basin in San Luis Valley, CO.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1925 to current year. Prior to October 1930 monthly discharge only, published in WSP 1312.

Published as "at Taos Junction Bridge, near Taos" prior to 1934.

REVISED RECORDS.--WSP 788: 1934(M). WSP 828: Drainage area. WSP 1392: 1931-1932, 1935, 1937, 1945, 1950.

GAGE.--Water-stage recorder. Datum of gage is 6,050.3 ft above National Geodetic Vertical Datum of 1929. Prior to
Apr. 14, 1934, at bridge 1.7 mi upstream at different datum.

REMARKS.--Water-discharge records good. Diversions upstream from station for irrigation of about 620,000 acres in
Colorado and 30,000 acres in New Mexico.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood since at least 1888, about 14,000 ft³/s June 19, 1903, from
records for Rio Grande at Embudo and estimated inflow. Other floods exceeding 10,000 ft³/s occurred June 9,
1905, May 28, 1920, and June 16, 1921, from comparison of records for stations near Lobatos and at Embudo.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	377	413	581	592	540	745	679	1120	3190	820	271	283
2	370	505	606	597	545	779	675	1040	3520	768	280	308
3	360	501	631	583	560	827	669	980	3830	710	270	285
4	356	541	631	586	597	848	692	937	4060	651	254	294
5	349	567	615	594	593	878	733	1020	3680	614	250	283
6	345	553	593	613	588	925	723	1320	3470	577	250	290
7	362	512	591	588	597	977	749	1740	3320	529	242	330
8	370	486	599	574	614	1070	727	2060	2990	493	239	350
9	358	477	614	598	607	1020	730	2410	2520	472	235	330
10	349	464	611	582	600	1010	723	2540	2180	434	231	310
11	348	481	624	568	612	979	738	2580	1990	415	232	300
12	371	521	642	567	607	926	749	2510	1900	414	237	292
13	386	510	650	570	588	882	741	2440	1800	389	245	289
14	399	521	606	567	590	880	759	2660	1740	369	236	292
15	423	524	514	568	615	859	775	3140	1750	356	272	291
16	416	543	537	574	621	866	807	3540	1620	347	252	275
17	411	522	493	555	629	890	921	3960	1490	331	247	264
18	425	513	478	562	794	916	1110	4070	1380	320	253	254
19	405	505	555	560	713	929	1330	4380	1310	310	245	253
20	409	515	578	557	653	1020	1470	4730	1240	306	266	263
21	411	543	545	560	650	1030	1500	4540	1250	305	272	255
22	413	564	548	557	666	971	1480	4230	1520	300	269	252
23	414	570	534	563	651	924	1720	3790	1630	292	253	253
24	406	687	504	573	605	890	1990	3470	1800	286	244	245
25	397	678	504	577	661	803	2320	3320	2040	303	247	237
26	398	604	532	587	767	771	2380	3480	1910	296	236	235
27	397	448	555	592	785	763	2170	3520	1470	281	234	230
28	389	426	577	601	778	739	1710	3400	1210	282	230	227
29	416	539	586	609	---	700	1410	3140	1040	279	238	225
30	428	563	592	609	---	685	1220	3120	922	265	233	225
31	404	---	593	583	---	640	---	3050	---	264	231	---
TOTAL	12062	15796	17819	17966	17826	27142	34400	88237	63772	12778	7694	8220
MEAN	389	527	575	580	637	876	1147	2846	2126	412	248	274
MAX	428	687	650	613	794	1070	2380	4730	4060	820	280	350
MIN	345	413	478	555	540	640	669	937	922	264	233	225
AC-FT	23920	31330	35340	35640	35360	53840	68230	175000	126500	25350	15260	16300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 1994, BY WATER YEAR (WY)

	MEAN	413	531	494	477	544	666	885	1815	1802	712	409	377
MAX	1675	1532	1018	764	865	1195	3020	6055	6007	2945	1536	2086	
(WY)	1942	1942	1942	1986	1987	1987	1942	1987	1941	1941	1929	1927	
MIN	171	223	243	263	290	259	250	233	188	185	184	161	
(WY)	1957	1957	1957	1957	1957	1957	1981	1977	1977	1959	1956	1956	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1926 - 1994

ANNUAL TOTAL	356795	323712	761
ANNUAL MEAN	978	887	1840
HIGHEST ANNUAL MEAN			271
LOWEST ANNUAL MEAN			1964
HIGHEST DAILY MEAN	5260	May 30	4730
LOWEST DAILY MEAN	345	Oct 6	225
ANNUAL SEVEN-DAY MINIMUM	354	Oct 5	232
INSTANTANEOUS PEAK FLOW		4900	May 20
INSTANTANEOUS PEAK STAGE		7.23	May 20
INSTANTANEOUS LOW FLOW		220	Sep 29
ANNUAL RUNOFF (AC-FT)	707700	642100	551000
10 PERCENT EXCEEDS	2070	2100	1490
50 PERCENT EXCEEDS	600	586	472
90 PERCENT EXCEEDS	399	260	242

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
OCT 1993											
21...	0845	411	333	8.4	7.5	9.0	--	619	9.0	96	--
NOV											
23...	1000	556	324	8.3	9.0	5.0	1.3	608	10.4	103	19
DEC											
16...	0915	500	296	8.6	-2.5	2.5	--	607	10.9	101	--
JAN 1994											
10...	1310	570	280	8.5	4.0	4.0	--	611	11.0	105	--
FEB											
24...	0830	633	273	8.1	-2.5	3.0	--	609	10.9	102	--
MAR											
24...	0945	892	268	8.2	12.5	7.5	5.0	609	10.8	114	34
APR											
18...	1330	1150	298	8.3	--	17.5	--	613	8.5	111	--
MAY											
24...	1300	E3440	190	7.7	17.5	12.5	65	614	8.9	104	30
JUN											
07...	0845	3440	214	8.1	14.0	14.5	--	610	7.8	96	--
16...	0845	1670	--	--	--	--	--	--	--	--	--
16...	0845	1670	249	7.8	--	16.0	--	615	8.5	107	--
30...	1535	918	281	8.4	--	19.0	--	611	7.4	100	--
JUL											
21...	0815	331	355	8.4	22.0	18.0	--	617	7.6	100	--
AUG											
10...	0900	270	325	8.5	20.0	19.5	2.2	618	8.3	112	--
28...	0830	270	330	8.4	21.0	18.0	--	615	7.1	93	--
SEP											
09...	0800	370	357	8.2	11.5	17.0	--	615	7.6	98	--
11...	1130	336	--	--	23.0	18.5	--	615	9.5	--	--

[illegible]

08276500 RIO GRANDE BELOW TAOS JUNCTION BRIDGE, NEAR TAOS, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA WATER YEAR OCTOBER 1962 TO SEPTEMBER 1963

[illegible]

RIO GRANDE BASIN

08276500 RIO GRANDE BELOW TAOS JUNCTION BRIDGE, NEAR TAOS, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)
OCT 1993											
21...	--	--	--	--	--	--	4	--	--	9	--
NOV											
23...	<1	<1.0	<1	<1	<1	1	10	<1	<1	12	<0.10
DEC											
16...	--	--	--	--	--	--	16	--	--	11	--
JAN 1994											
10...	--	--	--	--	--	--	11	--	--	14	--
FEB											
24...	--	--	--	--	--	--	16	--	--	11	--
MAR											
24...	--	--	--	--	--	--	7	--	--	6	--
APR											
18...	--	--	--	--	--	--	84	--	--	19	--
MAY											
24...	--	--	--	--	--	--	110	--	--	10	--
JUN											
07...	--	--	--	--	--	--	100	--	--	8	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	52	--	--	9	--
30...	--	--	--	--	--	--	--	--	--	--	--
JUL											
21...	--	--	--	--	--	--	5	--	--	10	--
AUG											
10...	<1	<1.0	<1	1	2	<1	15	1	<1	12	<0.10
28...	--	--	--	--	--	--	--	--	--	--	--
SEP											
09...	--	--	--	--	--	--	11	--	--	5	--
11...	--	--	--	--	--	--	--	--	--	--	--

DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	NITRO- GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO- GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN, NH4 TOTAL + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOS- PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS) (01003)
OCT 1993											
21...	--	--	--	--	--	--	--	--	--	--	--
NOV											
23...	<0.1	3	<1	<1	20	<10	<2.0	16	--	700	3
DEC											
16...	--	--	--	--	--	--	--	--	--	--	--
JAN 1994											
10...	--	--	--	--	--	--	--	--	--	--	--
FEB											
24...	--	--	--	--	--	--	--	--	--	--	--
MAR											
24...	--	4	--	--	--	--	--	--	--	--	--
APR											
18...	--	--	--	--	--	--	--	--	--	--	--
MAY											
24...	--	1	--	--	--	--	--	--	--	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JUL											
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
10...	<0.1	13	<1	<1	10	20	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
SEP											
09...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	<2.0	3.2	520	800	--

RIO GRANDE BASIN

08276500 RIO GRANDE BELOW TAOS JUNCTION BRIDGE, NEAR TAOS, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

[illegible][illegible]

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

[illegible]

RIO GRANDE BASIN

08277470 RIO PUEBLO NEAR PENASCO, NM

LOCATION.--Lat 36°10'14", long 105°36'36", in SE¼NE¼ sec.1, T.22 N., R.12 E., Taos County, Hydrologic Unit 13020101, on left bank 10 ft downstream from bridge on private road, 0.5 mi upstream from junction of State Highways 518 and 75, 1.0 mi downstream from Gabe Canyon and 6.0 mi east of Penasco.

PERIOD OF RECORD.--December 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7,760 ft above National Geodetic Vertical Datum of 1929 from, topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Several observations of water temperature where made during year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	17	17	10	14	13	46	227	468	34	16	26
2	13	16	18	9.8	13	14	54	228	473	34	16	24
3	13	16	e15	11	13	15	53	228	353	32	16	22
4	13	15	e14	9.7	11	16	60	264	375	27	15	24
5	13	15	e13	9.8	11	18	61	413	298	22	17	21
6	13	15	e10	9.8	11	20	57	803	284	23	17	29
7	14	18	e10	10	11	21	52	1120	241	26	14	22
8	15	16	e9.0	12	11	21	51	1120	217	25	15	19
9	14	15	e9.2	11	11	20	51	1080	169	25	16	17
10	14	17	11	10	e9.0	18	48	1010	185	24	14	17
11	14	16	11	10	10	16	46	955	163	23	17	16
12	13	16	11	11	10	15	45	1230	151	17	16	17
13	13	15	12	10	11	15	49	1530	136	18	14	27
14	14	14	e11	9.9	11	17	62	1330	129	18	19	31
15	13	14	e10	9.4	11	21	95	1370	117	16	22	22
16	13	16	12	9.5	12	29	128	1630	99	14	20	19
17	14	e13	12	9.8	11	43	184	1510	97	17	15	17
18	15	e12	14	9.4	12	51	273	1280	89	14	14	17
19	14	e14	12	9.3	11	60	363	1630	97	16	16	17
20	14	e14	11	9.2	11	61	400	1720	93	19	24	16
21	14	e14	11	9.2	11	53	419	1300	97	20	30	16
22	14	19	12	9.1	11	53	507	958	83	18	23	15
23	14	24	11	9.2	12	56	705	798	74	17	20	15
24	14	23	11	9.6	e10	53	888	765	63	15	23	14
25	13	15	11	9.5	12	49	872	782	63	15	22	14
26	13	e10	11	9.2	13	49	548	726	57	19	21	14
27	12	e9.0	11	9.7	14	38	373	575	52	24	26	13
28	13	e11	10	9.8	14	37	290	514	43	19	20	13
29	14	e13	9.9	9.5	---	40	250	548	40	19	20	13
30	14	e14	10	e9.0	---	38	222	516	41	17	19	13
31	19	---	10	e10	---	40	---	469	---	15	20	---
TOTAL	426	456.0	360.1	304.4	322.0	1010	7252	28629	4847	642	577	560
MEAN	13.7	15.2	11.6	9.82	11.5	32.6	242	924	162	20.7	18.6	18.7
MAX	19	24	18	12	14	61	888	1720	473	34	30	31
MIN	12	9.0	9.0	9.0	9.0	13	45	227	40	14	14	13
AC-FT	845	904	714	604	639	2000	14380	56790	9610	1270	1140	1110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1994, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	12.9	13.8	12.3	11.8	13.2	29.0	179	490	134	24.9	23.6	22.3
MAX	13.7	15.2	15.2	14.6	16.8	32.6	242	924	162	36.8	35.9	33.3
(WY)	1994	1994	1992	1992	1992	1994	1994	1994	1994	1992	1993	1993
MIN	12.1	12.5	10.0	9.82	11.2	23.2	88.6	268	103	17.1	16.4	14.8
(WY)	1993	1993	1993	1994	1993	1993	1993	1993	1993	1993	1992	1992

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1992 - 1994

ANNUAL TOTAL	19308.1	45385.5	
ANNUAL MEAN	52.9	124	88.4
HIGHEST ANNUAL MEAN			124
LOWEST ANNUAL MEAN			52.4
HIGHEST DAILY MEAN	410	May 22	1720
LOWEST DAILY MEAN	8.0	Feb 18	9.0
ANNUAL SEVEN-DAY MINIMUM	9.7	Jan 21	9.3
INSTANTANEOUS PEAK FLOW			2200
INSTANTANEOUS PEAK STAGE			6.00
INSTANTANEOUS LOW FLOW			4.9
ANNUAL RUNOFF (AC-FT)	38300	90020	64020
10 PERCENT EXCEEDS	143	385	244
50 PERCENT EXCEEDS	17	17	18
90 PERCENT EXCEEDS	10	10	10

e Estimated

RIO GRANDE BASIN

08278500 RIO SANTA BARBARA NR PENASCO, NM

LOCATION.--Lat 36°06'13", long 105°37'14", Taos County, Hydrologic Unit 13020101, in Santa Barbara Grant, on right bank at bridge on U.S. Forest Service Road 116, 1.4 mi below Santa Barbara Campground and 6.5 mi southeast of Penasco

DRAINAGE AREA.--38 mi² (approximately).

PERIOD OF RECORD.--November 1991 to current year. October 1952 to December 1957 published as Rio Santa Barbara nr Llano, NM (08278500).

GAGE.--Water-stage recorder. Elevation of gage is 8,640 ft above National Geodetic Vertical Datum, from topographic map.

REMARKS.--Records fair except for estimated daily discharges which are poor. Several observations of water temperature were made during year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	15	e17	5.7	e6.4	7.6	15	52	474	61	20	19
2	21	13	e16	5.7	e6.8	8.0	17	50	499	58	22	18
3	21	13	e14	6.3	7.2	8.7	17	50	407	54	19	22
4	21	13	e12	6.4	7.3	9.5	18	57	360	50	17	25
5	21	12	e13	6.3	7.3	11	19	81	348	46	18	20
6	20	12	e12	6.3	7.3	12	19	107	336	42	18	22
7	23	e11	e11	6.2	7.3	12	17	120	311	39	16	19
8	21	12	e12	7.0	6.4	13	16	120	273	36	15	18
9	20	12	45	7.0	6.4	12	16	121	245	34	15	17
10	19	13	e12	7.0	6.4	e13	16	116	230	32	15	16
11	19	12	e11	7.0	6.3	11	15	111	215	30	17	16
12	18	13	12	e7.1	6.5	10	16	123	202	28	15	17
13	17	12	9.8	e7.0	7.3	e12	14	130	191	27	14	31
14	17	12	9.2	e7.3	8.5	12	14	129	185	26	18	34
15	18	e12	8.9	e7.5	7.3	12	21	136	175	25	19	25
16	17	12	8.1	7.4	7.1	15	32	164	163	23	18	22
17	19	e11	7.5	e7.6	7.0	17	43	206	151	23	15	21
18	18	e11	7.2	e7.6	6.8	20	57	247	145	23	14	21
19	17	11	7.2	e7.5	6.6	22	66	258	149	22	14	20
20	15	e11	6.8	e7.6	6.6	22	70	260	149	24	32	19
21	15	e11	6.6	e7.4	6.8	19	76	347	144	23	24	18
22	14	e12	6.5	e7.3	6.8	18	88	332	131	22	18	18
23	14	e15	6.5	e7.5	6.6	20	96	336	116	21	17	17
24	14	12	6.2	e8.0	8.2	20	101	355	108	19	17	16
25	14	e10	6.3	8.5	8.1	19	102	351	101	19	16	16
26	13	e9.0	6.2	8.9	7.8	19	87	303	92	20	15	15
27	11	e10	6.1	8.6	7.9	17	70	268	84	23	16	15
28	11	e12	6.1	7.0	7.7	18	60	265	78	19	15	14
29	13	e15	5.8	e6.7	---	17	56	308	73	18	16	14
30	14	e16	5.8	e6.6	---	16	51	323	66	17	17	14
31	15	---	5.7	e6.8	---	14	---	334	---	17	18	---
TOTAL	532	365.0	319.5	220.8	198.7	456.8	1305	6160	6201	921	540	579
MEAN	17.2	12.2	10.3	7.12	7.10	14.7	43.5	199	207	29.7	17.4	19.3
MAX	23	16	45	8.9	8.5	22	102	355	499	61	32	34
MIN	11	9.0	5.7	5.7	6.3	7.6	14	50	66	17	14	14
AC-FT	1060	724	634	438	394	906	2590	12220	12300	1830	1070	1150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1994, BY WATER YEAR (WY)

	MEAN	12.7	10.8	8.10	6.71	6.66	10.8	40.9	111	116	34.8	42.7	26.5
MAX	17.2	17.1	13.6	9.24	9.11	17.5	75.3	199	207	62.1	129	66.5	
(WY)	1994	1992	1992	1953	1992	1992	1992	1994	1994	1957	1957	1957	
MIN	4.95	5.13	4.18	4.10	3.93	6.46	18.6	35.6	17.0	8.13	8.11	4.50	
(WY)	1957	1957	1957	1954	1957	1957	1956	1956	1956	1956	1956	1956	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1953 - 1994

ANNUAL TOTAL	16544.7	17798.8	
ANNUAL MEAN	45.3	48.8	34.1
HIGHEST ANNUAL MEAN			50.5
LOWEST ANNUAL MEAN			12.0
HIGHEST DAILY MEAN	239	May 29	499
LOWEST DAILY MEAN	4.7	Mar 16	5.7
ANNUAL SEVEN-DAY MINIMUM	5.6	Mar 14	5.8
INSTANTANEOUS PEAK FLOW			720
INSTANTANEOUS PEAK STAGE			6.05
INSTANTANEOUS LOW FLOW			4.8
ANNUAL RUNOFF (AC-FT)	32820	35300	24720
10 PERCENT EXCEEDS	139	144	100
50 PERCENT EXCEEDS	20	17	14
90 PERCENT EXCEEDS	6.8	7.0	5.8

e Estimated

RIO GRANDE BASIN

08279000 EMBUDO CREEK AT DIXON, NM

LOCATION.--Lat 36°12'39", long 105°54'47", in NE¼SE¼ sec.19, T.23 N., R.10 E., Rio Arriba County, Hydrologic Unit
Post Office, and 1.7 mi northwest of Dixon

DRAINAGE AREA.--305 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1923 to February 1926, October 1926 to September 1955, (annual maximum), water years 1956-62, September 1962 to current year. Monthly discharge only for some periods, published in WSP 1312. Figures of daily discharge for July 6-25, 1932, published in WSP 733, and maximum discharges for water years 1931-33, 1935, 1937-38, 1941, are unreliable and should not be used.

REVISED RECORDS.--WSP 1512: 1931-32, 1941, 1947 (M). Also see PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 5,858.60 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 30, 1938, at site about 1 mi upstream at different datum. Nov. 30, 1938 to Aug. 1, 1941, at site about 0.9 mi upstream at datum about 59.9 ft higher. Aug. 2, 1941 to Sept. 1, 1971, at site 750 ft downstream at datum 9.10 ft lower. April 1956 to Sept. 21, 1962, crest-stage gage.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 6,600 acres, a small part of which are downstream from gage.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	49	51	32	33	41	110	316	814	69	29	29
2	36	49	44	35	38	41	121	298	845	62	31	33
3	36	47	41	31	37	47	116	281	786	52	32	34
4	35	49	36	34	35	53	125	282	763	44	e27	43
5	37	48	40	34	35	59	133	359	722	35	e26	40
6	36	43	38	37	33	60	126	545	644	30	e25	45
7	40	40	39	29	33	63	127	665	582	30	e23	41
8	44	44	38	28	35	73	120	660	516	27	e22	34
9	42	45	39	32	33	59	137	644	478	24	e23	29
10	45	41	40	32	30	52	141	627	434	23	e22	29
11	42	48	41	32	33	58	146	601	402	22	e23	29
12	40	55	44	31	32	58	166	685	361	21	e24	27
13	41	48	37	31	27	50	185	791	323	19	e25	34
14	38	52	30	31	30	63	236	792	284	19	e27	51
15	39	43	35	32	34	77	276	849	253	19	34	47
16	40	47	41	32	32	98	284	920	224	18	40	37
17	46	40	39	31	36	125	311	951	194	18	47	33
18	51	43	32	31	41	148	342	945	175	18	42	32
19	44	51	38	32	38	145	385	1150	191	18	33	33
20	40	41	41	32	34	158	416	1320	229	17	32	29
21	39	41	28	32	32	135	417	1230	238	16	38	31
22	38	48	35	32	34	127	449	1040	214	16	35	29
23	39	69	30	32	32	131	526	941	176	17	32	29
24	37	76	28	32	29	125	587	948	154	17	36	26
25	37	35	28	32	37	116	630	966	136	14	42	26
26	36	27	33	35	45	114	499	931	116	13	32	24
27	37	28	34	33	50	106	403	844	97	17	30	22
28	37	36	39	30	46	99	348	786	87	39	27	21
29	43	46	35	33	---	102	324	787	81	35	26	22
30	38	49	33	32	---	106	307	808	71	30	24	22
31	42	---	32	28	---	103	---	794	---	29	26	---
TOTAL	1234	1378	1139	990	984	2792	8493	23756	10590	828	935	961
MEAN	39.8	45.9	36.7	31.9	35.1	90.1	283	766	353	26.7	30.2	32.0
MAX	51	76	51	37	50	158	630	1320	845	69	47	51
MIN	35	27	28	28	27	41	110	281	71	13	22	21
AC-FT	2450	2730	2260	1960	1950	5540	16850	47120	21010	1640	1850	1910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1994, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
MEAN	37.9	35.4	31.2	28.7	30.4
MAX	116	95.5	54.3	42.2	72.7
(WY)	1942	1942	1942	1985	1932
MIN	3.09	4.18	9.75	12.0	15.0
(WY)	1951	1951	1951	1951	1951

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1924 - 1994
ANNUAL TOTAL	44784	54080	
ANNUAL MEAN	123	148	84.8
HIGHEST ANNUAL MEAN			235
LOWEST ANNUAL MEAN			12.8
HIGHEST DAILY MEAN	740	1320	2590
LOWEST DAILY MEAN	20	13	.20
ANNUAL SEVEN-DAY MINIMUM	23	16	.60
INSTANTANEOUS PEAK FLOW		1490	4200
INSTANTANEOUS PEAK STAGE		4.94	7.60
INSTANTANEOUS LOW FLOW		12	.06
ANNUAL RUNOFF (AC-FT)	88830	107300	61450
10 PERCENT EXCEEDS	280	520	213
50 PERCENT EXCEEDS	51	40	35
90 PERCENT EXCEEDS	35	26	13

e Estimated

RIO GRANDE BASIN

08279000 EMBUDO CREEK AT DIXON, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
NOV 1993									
09...	0900	43	355	7.6	5.0	3.0	620	10.8	99
JAN 1994									
19...	0930	34	358	7.9	-2.0	0.5	618	10.7	92
MAR									
09...	1430	55	330	7.9	6.0	8.0	613	9.1	96
JUN									
03...	1330	78	140	7.8	25.0	13.0	--	--	--
JUL									
06...	1030	31	375	8.5	27.0	16.5	612	8.5	109
SEP									
07...	1450	40	350	8.2	27.5	21.5	620	7.6	107

DATE	HARD- NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS- SOLVED (MG/L AS Na) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY LAB (MG/L AS CaCO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS Cl) (00940)
NOV 1993									
09...	170	56	6.7	7.6	0.3	1.0	165	21	3.5
JAN 1994									
19...	--	--	--	--	--	--	--	--	--
MAR									
09...	140	48	6.0	7.2	0.3	1.4	140	20	5.1
JUN									
03...	69	23	2.9	1.8	0.1	0.90	62	9.7	1.0
JUL									
06...	180	61	6.8	8.1	0.3	1.2	178	18	4.5
SEP									
07...	--	--	--	--	--	--	--	--	--

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS Fe) (01046)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 1993								
09...	0.30	14	209	20	6	--	--	--
JAN 1994								
19...	--	--	--	--	--	--	--	--
MAR								
09...	0.20	12	184	20	32	31	4.6	72
JUN								
03...	<0.10	6.8	83	<10	44	--	--	--
JUL								
06...	0.30	13	220	20	<3	--	--	--
SEP								
07...	--	--	--	--	--	--	--	--

RIO GRANDE BASIN

08284100 RIO CHAMA NEAR LA PUENTE, NM

LOCATION.--Lat 36°39'45", long 106°37'57", Rio Arriba County, Hydrologic Unit 13020102, in Tierra Amarilla Grant, on right bank 0.7 mi downstream from Rito de Tierra Amarilla, 3.1 southwest of La Puente, 6.7 mi upstream from flow line of El Vado Reservoir, and at mile 91.4.

DRAINAGE AREA.--480 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Concrete control since Nov. 9, 1965. Elevation of gage is 7,083 ft above National Geodetic Vertical Datum of 1929, from river profile map.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 10,300 acres upstream from station (1962 determination). Several observations of water temperature were made during the year. U.S. Bureau of Reclamation satellite telemeter in gage.

EXTREMES OUTSIDE PERIOD OF RECORDS.--A discharge of about 9,000 ft³/s occurred Apr. 16, 1937, based on flow of Rio Chama at Los Ojos (Park View) with allowance for tributary inflow. A peak on May 21 or 22, 1926, may have exceeded 10,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	83	120	e60	e40	e60	412	835	2520	119	59	39
2	48	85	e80	e50	e40	e70	475	761	2410	111	67	59
3	48	77	e70	e50	e40	e80	468	768	2190	98	68	144
4	46	73	e60	e50	e40	e90	590	885	2100	86	57	191
5	45	73	e60	e40	e50	e100	504	1540	1890	79	53	103
6	44	63	e60	e40	e50	e120	365	2460	1620	71	51	76
7	54	56	e60	e40	e50	e140	400	2860	1400	65	46	66
8	92	73	e60	e50	e50	e160	340	2750	1200	59	40	60
9	79	71	e60	e60	e60	e180	365	2740	987	55	40	55
10	75	70	e60	e70	e60	200	346	2230	863	56	41	52
11	70	78	e60	e70	e60	200	316	1990	790	53	50	48
12	68	94	e50	e70	e60	180	328	2960	719	49	70	45
13	67	79	e50	e70	e60	164	482	3510	671	46	75	53
14	64	84	e50	e70	e60	180	690	3600	606	45	66	96
15	63	73	e40	e70	e60	287	805	3890	569	e42	73	102
16	62	79	e40	e70	e70	405	860	4080	505	e42	75	69
17	79	84	e40	e70	e70	475	1020	4310	452	e42	68	60
18	108	91	e40	e80	e60	482	1290	4140	432	e37	57	58
19	92	95	e50	e80	e60	630	1530	4320	439	e33	53	61
20	82	83	e50	e80	e60	780	1590	4320	479	30	50	58
21	78	83	e40	e70	e60	670	1700	3810	477	32	71	57
22	76	93	e30	e70	e50	570	1980	3550	598	33	130	60
23	77	120	e30	e70	e50	490	2250	3480	452	34	69	55
24	78	141	e40	e70	e50	418	2640	3330	357	36	57	51
25	74	91	e40	e60	e50	380	2500	3150	288	43	51	50
26	73	e60	e40	e50	e50	346	1690	2800	244	57	45	47
27	72	e50	e50	e50	e60	334	1320	2460	215	64	41	42
28	68	e60	e50	e50	e60	265	1030	2560	181	74	39	40
29	78	e70	e60	e40	---	270	964	2720	154	75	45	40
30	74	e80	e70	e40	---	266	832	2710	141	72	e43	43
31	64	---	e70	e40	---	304	---	2560	---	64	e41	---
TOTAL	2149	2412	1680	1850	1530	9296	30082	88079	25949	1802	1791	1980
MEAN	69.3	80.4	54.2	59.7	54.6	300	1003	2841	865	58.1	57.8	66.0
MAX	108	141	120	80	70	780	2640	4320	2520	119	130	191
MIN	44	50	30	40	40	60	316	761	141	30	39	39
AC-FT	4260	4780	3330	3670	3030	18440	59670	174700	51470	3570	3550	3930

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1994, BY WATER YEAR (WY)

	MEAN	93.5	84.7	59.8	56.0	70.9	178	861	1843	741	127	98.3	79.2
MAX	562	422	131	103	174	445	1846	4195	3091	571	352	320	
(WY)	1987	1987	1987	1987	1962	1985	1962	1985	1957	1957	1957	1982	
MIN	9.82	24.8	25.9	15.8	26.3	49.9	244	123	19.1	9.23	9.00	7.96	
(WY)	1957	1957	1964	1963	1964	1964	1964	1977	1977	1956	1972	1956	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1956 - 1994

ANNUAL TOTAL	210323	168600	
ANNUAL MEAN	576	462	359
HIGHEST ANNUAL MEAN			723
LOWEST ANNUAL MEAN			63.0
HIGHEST DAILY MEAN	4980	May 26	7720
LOWEST DAILY MEAN	30	Jan 24	4.4
ANNUAL SEVEN-DAY MINIMUM	30	Jan 24	5.6
INSTANTANEOUS PEAK FLOW			4930
INSTANTANEOUS PEAK STAGE			5.80
INSTANTANEOUS LOW FLOW			28
ANNUAL RUNOFF (AC-FT)	417200	334400	260100
10 PERCENT EXCEEDS	1790	1690	1050
50 PERCENT EXCEEDS	83	71	80
90 PERCENT EXCEEDS	45	42	30

e Estimated

a-From rating curve extended above 5,400 ft³/s,

RIO GRANDE BASIN

08284100 RIO CHAMA NEAR LA PUENTE, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--water years 17/4, 1700 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE OF (MM HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)
NOV 1993										
18...	1100	66	181	7.3	2.0	1.0	584	15.6	144	14
JAN 1994										
12...	1000	64	192	8.1	-2.0	0.5	585	11.2	101	<10
MAR										
15...	1115	192	212	7.5	12.0	2.0	581	10.7	102	29
MAY										
10...	1045	2210	98	6.8	13.0	4.5	587	9.0	91	21
JUL										
20...	0900	29	210	7.3	20.0	17.0	--	--	--	<10
AUG										
17...	0945	73	256	7.7	25.0	17.5	595	8.0	108	13

DATE	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CAC03 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CAC03) (39086)
NOV 1993										
18...	78	--	24	4.3	6.3	0.3	1.2	--	--	--
JAN 1994										
12...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	86	13	26	5.2	7.5	0.4	2.4	89	0	73
MAY										
10...	33	0	10	2.0	2.8	0.2	0.90	41	0	34
JUL										
20...	83	--	26	4.4	6.5	0.3	2.0	--	--	--
AUG										
17...	--	--	--	--	--	--	--	--	--	--

DATE	ALKA-LINITY LAB (MG/L AS CAC03) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
NOV 1993										
18...	75	17	1.9	0.10	22	122	--	<0.010	<0.050	0.010
JAN 1994										
12...	--	--	--	--	--	--	0.044	0.020	0.064	0.030
MAR										
15...	76	29	2.3	<0.10	17	134	--	<0.010	0.086	0.060
MAY										
10...	36	6.1	0.30	<0.10	14	57	--	<0.010	0.083	0.010
JUL										
20...	90	14	1.3	0.10	21	129	--	<0.010	<0.050	0.020
AUG										
17...	--	--	--	--	--	--	--	<0.010	<0.050	0.030

RIO GRANDE BASIN

08284100 RIO CHAMA NEAR LA PUENTE, NM -- Continued
WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (006625)	PHOS- PHORUS TOTAL (MG/L AS P) (006655)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (006711)	CARBON, ORGANIC TOTAL (MG/L AS C) (006680)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	SEDI- MENT, DIS- SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 1993									
18...	<0.20	0.030	0.020	2.1	10	56	8	1.4	63
JAN 1994									
12...	<0.20	0.040	0.020	1.9	--	--	10	1.7	67
MAR									
15...	0.40	0.080	0.030	5.4	20	100	40	21	81
MAY									
10...	0.40	0.070	0.030	6.3	<10	87	84	501	50
JUL									
20...	0.30	0.040	0.020	3.3	10	41	14	1.1	59
AUG									
17...	0.40	0.090	<0.010	4.9	--	--	60	12	88

RIO GRANDE BASIN

08284160 AZOTEA TUNNEL AT OUTLET, NEAR CHAMA, NM

LOCATION.--Lat 36°51'12", long 106°40'18", Rio Arriba County, Hydrologic Unit 13020102, in Tierra Amarilla Grant, on left bank at south portal, 0.2 mi upstream from Azotea Creek, and 6.2 mi southwest of Chama.

PERIOD OF RECORD. October 1978 to present year.

GAGE.--Water-stage recorder and Parshall flume. Datum of gage is 7,519.87 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Records represent regulated diversions from Rio Blanco, Little Navajo River, and Navajo River in San Juan River Basin.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

AVERAGE DISCHARGE.--23 years, 130 ft³/s, 94,180 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,170 ft³/s, May 17, 1978, gage height, 7.85 ft; no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,030 ft³/s, May 13; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.00	.00	.00	.00	.00	.00	226	934	53	.00	.00
2	.50	.00	.00	.00	.00	.00	.00	189	811	51	.00	.00
3	.50	.00	.00	.00	.00	.00	.00	175	691	50	.00	.00
4	.50	.00	.00	.00	.00	.00	.00	200	578	50	.00	.00
5	.50	.00	.00	.00	.00	.00	55	413	553	49	.00	.00
6	.00	.00	.00	.00	.00	.00	80	634	481	41	.00	.00
7	.00	.00	.00	.00	.00	.00	85	776	284	37	.00	.00
8	.00	.00	.00	.00	.00	.00	105	736	120	16	.00	.00
9	.50	.00	.00	.00	.00	.00	115	757	107	28	.00	.00
10	.00	.00	.00	.00	.00	.00	97	594	94	3.0	.00	.00
11	.00	.00	.00	.00	.00	.00	88	624	74	2.0	.00	.00
12	.00	.00	.00	.00	.00	.00	94	914	71	1.5	.00	.00
13	.00	.00	.00	.00	.00	.00	135	1030	71	1.0	.00	.00
14	.00	.00	.00	.00	.00	.00	209	1000	63	.50	.00	.00
15	.00	.00	.00	.00	.00	.00	279	1020	51	.50	.00	.00
16	.00	.00	.00	.00	.00	.00	356	1030	51	.50	.00	.00
17	.00	.00	.00	.00	.00	.00	478	1030	51	.50	.00	.00
18	.00	.00	.00	.00	.00	.00	657	1030	50	.50	.00	.00
19	.00	.00	.00	.00	.00	.00	739	1030	50	.50	.00	.00
20	.00	.00	.00	.00	.00	.00	756	1030	47	.50	.00	.00
21	.00	.00	.00	.00	.00	.00	811	998	37	.50	.00	.00
22	.00	.00	.00	.00	.00	.00	844	977	36	.50	.00	.00
23	.00	.00	.00	.00	.00	.00	939	937	19	.50	.00	.00
24	.00	.00	.00	.00	.00	.00	929	934	106	.50	.00	.00
25	.00	.00	.00	.00	.00	.00	773	1010	193	.50	.00	.00
26	.00	.00	.00	.00	.00	.00	575	824	153	.50	.00	.00
27	.00	.00	.00	.00	.00	.00	464	702	136	.50	.00	.00
28	.00	.00	.00	.00	.00	.00	397	755	147	.50	.00	.00
29	.00	.00	.00	.00	---	.00	330	884	93	.50	.00	.00
30	.00	.00	.00	.00	---	.00	228	879	54	.50	.00	.00
31	.00	---	.00	.00	---	.00	---	885	---	.50	.00	---
TOTAL	3.00	0.00	0.00	0.00	0.00	0.00	10618.00	24223	6206	391.50	0.00	0.00
MEAN	.097	.000	.000	.000	.000	.000	354	781	207	12.6	.000	.000
MAX	.50	.00	.00	.00	.00	.00	939	1030	934	53	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	175	19	.50	.00	.00
AC-FT	6.0	.00	.00	.00	.00	.00	21060	48050	12310	777	.00	.00

CAL YR 1993 TOTAL 49817.20 MEAN 136 MAX 1010 MIN .00 AC-FT 98810
WTR YR 1994 TOTAL 41441.50 MEAN 114 MAX 1030 MIN .00 AC-FT 82200

RIO GRANDE BASIN

08284200 WILLOW CREEK ABOVE HERON RESERVOIR, NEAR LOS OJOS, NM

LOCATION.--Lat 36°44'33", long 106°37'34", Rio Arriba County, Hydrologic Unit 13020102, in Tierra Amarilla Grant, on right bank 200 ft downstream from bridge, 0.2 mi downstream from Iron Spring Creek, 3.3 mi west of Los Ojos, and at mile 9.7.

DRAINAGE AREA.--112 mi².

PERIOD OF RECORD.--October and November 1962 (monthly discharge only), December 1962 to current year. Published as "near Park View" prior to 1976.

GAGE.--Water-stage recorder. Concrete control since June 6, 1963. Datum of gage is 7,196.29 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). Prior to Apr. 1, 1971, at site 900 ft downstream at lower datum.

REMARKS.--Records represent inflow to Heron Reservoir and since Nov. 17, 1970, include San Juan River water imported through Azotea tunnel (station 08284160).

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

AVERAGE DISCHARGE.--8 years (water years 1963-70), 10.5 ft³/s, 7,610 acre-ft/yr, prior to completion of Azotea tunnel. 24 years (water years 1971-94), 143 ft³/s, 103,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,610 ft³/s, Mar. 12, 1985, gage height, 6.65 ft; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,020 ft³/s, May 13; no flow Oct. 6-8, 10-31 and Jan. 1, 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.50	1.0	.00	.50	.50	62	270	881	53	1.1	1.0
2	.50	.50	.50	.00	.50	.50	64	221	771	52	1.6	1.0
3	.50	.50	.50	.00	.50	1.5	58	204	664	52	1.6	1.0
4	.50	.50	.50	.00	.50	5.0	59	194	534	51	.96	1.0
5	.50	.50	.50	.10	.50	23	86	364	521	51	.70	1.0
6	.00	.25	.50	.10	.50	91	129	562	455	53	.60	1.0
7	.00	.25	.50	.10	.50	179	138	741	318	48	.50	.81
8	.00	.25	.50	.06	.50	253	138	678	124	25	.40	.55
9	.50	.50	.50	.06	.50	203	166	734	109	3.7	.34	.50
10	.00	.50	.50	.07	.50	143	174	561	101	2.1	1.9	.50
11	.00	.50	.50	.05	.50	114	209	553	76	2.2	2.4	.60
12	.00	.76	.50	.06	.50	80	230	861	73	1.9	3.2	.55
13	.00	.60	.50	.10	.50	77	271	1020	73	1.5	2.1	.70
14	.00	.81	.50	.14	.50	170	523	968	69	.96	1.8	2.0
15	.00	1.9	.50	.14	.50	306	338	969	52	.66	1.4	2.5
16	.00	1.0	.50	.18	.50	385	413	979	52	.38	1.0	1.1
17	.00	1.0	.50	.26	.50	496	508	972	51	.66	.70	.55
18	.00	1.0	.50	.32	.50	359	670	957	51	.86	.60	.40
19	.00	1.0	.50	.40	.50	389	763	970	51	1.0	.45	.55
20	.00	.50	.50	.42	.50	559	753	972	52	.70	.55	.45
21	.00	.50	.50	.42	.50	276	811	938	14	1.9	1.1	.34
22	.00	.50	.22	.46	.50	180	835	918	11	1.7	1.4	.26
23	.00	4.0	.20	.50	.50	134	933	878	6.0	1.6	1.0	.26
24	.00	10	.12	.50	.50	93	929	875	58	1.3	.50	.23
25	.00	3.5	.08	.50	.50	79	791	964	212	1.3	.50	.22
26	.00	2.5	.10	.50	.50	69	578	828	164	2.2	.43	.20
27	.00	1.5	.08	.50	.50	65	466	680	137	2.1	.55	.15
28	.00	1.0	.11	.50	.50	48	399	704	160	1.8	.41	.20
29	.00	.50	.13	.50	---	49	371	827	110	1.9	.24	.20
30	.00	.50	.13	.50	---	49	263	835	54	1.8	.18	.18
31	.00	---	.13	.50	---	54	---	828	---	1.8	.22	---
TOTAL	3.00	37.82	12.30	7.94	14.00	4930.50	12128	23025	6004.0	421.02	30.43	20.00
MEAN	.097	1.26	.40	.26	.50	159	404	743	200	13.6	.98	.67
MAX	.50	10	1.0	.50	.50	559	933	1020	881	53	3.2	2.5
MIN	.00	.25	.08	.00	.50	.50	58	194	6.0	.38	.18	.15
AC-FT	6.0	75	24	16	28	9780	24060	45670	11910	835	60	40

CAL YR 1993 TOTAL 59893.52 MEAN 164 MAX 1000 MIN .00 AC-FT 118800
WTR YR 1994 TOTAL 46634.01 MEAN 128 MAX 1020 MIN .00 AC-FT 92500

RIO GRANDE BASIN

08284300 HORSE LAKE CREEK ABOVE HERON RESERVOIR, NEAR LOS OJOS, NM

LOCATION.--Lat 36°42'24", long 106°44'42", Rio Arriba County, Hydrologic Unit 13020102, in Tierra Amarilla Grant, on right bank 3.7 mi northwest of Heron Dam. 7.8 mi downstream from Horse Lake, and 9.9 mi west of Los Ojos.

PERIOD OF RECORD.--October and November 1962 (monthly discharge only), December 1962 to current year. No winter records subsequent to 1973. Published as "near Park View" prior to 1976.

GAGE.--Water-stage recorder. Concrete control since June 10, 1963. Datum of gage is 7,188.85 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). Prior to July 1, 1971, at site 1,100 ft upstream at higher datums.

REMARKS.--Diversions upstream from station for irrigation of meadows and for off-channel stock tanks.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

AVERAGE DISCHARGE--11 years (water years 1963-73), 1.10 ft³/s, 797 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,960 ft³/s, July 30, 1968, gage height, 4.9 ft, site and datum then in use, from rating curve extended above 37 ft³/s on basis of slope-area measurements at gage heights 3.20 ft and 4.9 ft; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 24 ft³/s, Apr. 11, no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	---	---	---	---	---	8.1	7.4	.05	.00	.02	.00
2	.00	---	---	---	---	---	7.5	5.5	.03	.00	.00	.00
3	.00	---	---	---	---	---	7.3	5.2	.01	.00	.00	.00
4	.00	---	---	---	---	---	6.9	4.5	.00	.00	.00	.00
5	.00	---	---	---	---	---	7.7	4.1	.00	.00	.00	.00
6	.00	---	---	---	---	---	7.6	3.8	.00	.00	.00	.00
7	.00	---	---	---	---	---	9.4	3.2	.00	.01	.00	.00
8	.00	---	---	---	---	---	9.0	2.9	.00	.01	.00	.00
9	.00	---	---	---	---	---	10	3.0	.00	.01	.00	.00
10	.00	---	---	---	---	---	17	3.3	.00	.01	.00	.00
11	.00	---	---	---	---	---	24	3.3	.00	.01	.00	.00
12	.00	---	---	---	---	---	23	4.5	.00	.02	.00	.00
13	.00	---	---	---	---	---	18	11	.00	.02	.00	.00
14	.00	---	---	---	---	---	14	7.2	.00	.02	.00	.00
15	.00	---	---	---	---	---	11	4.7	.00	.02	.00	.00
16	.00	---	---	---	---	---	11	4.0	.00	.02	.00	.00
17	.00	---	---	---	---	---	10	3.3	.00	.02	.00	.00
18	.00	---	---	---	---	---	9.6	2.9	.00	.02	.00	.00
19	.00	---	---	---	---	---	9.2	2.5	.00	.02	.00	.00
20	.00	---	---	---	---	---	8.8	2.5	.00	.02	.00	.00
21	.00	---	---	---	---	---	8.5	2.5	.00	.02	.00	.00
22	.00	---	---	---	---	---	8.7	2.1	.00	.02	.00	.00
23	.00	---	---	---	---	---	7.5	1.9	.00	.02	.00	.00
24	.00	---	---	---	---	---	12	1.8	.00	.02	.00	.00
25	.00	---	---	---	---	---	12	2.5	.00	.02	.00	.00
26	.00	---	---	---	---	---	11	7.2	.00	.02	.00	.00
27	.00	---	---	---	---	---	9.6	5.0	.00	.02	.00	.00
28	.00	---	---	---	---	---	9.6	3.3	.00	.02	.00	.00
29	.00	---	---	---	---	---	10	2.6	.00	.02	.00	.00
30	.00	---	---	---	---	---	8.7	2.1	.00	.02	.00	.00
31	.00	---	---	---	---	---	---	1.8	---	.02	.00	---
TOTAL	0.00	---	---	---	---	---	326.7	121.6	0.09	0.45	0.02	0.00
MEAN	.000	---	---	---	---	---	10.9	3.92	.003	.015	.001	.000
MAX	.00	---	---	---	---	---	24	11	.05	.02	.02	.00
MIN	.00	---	---	---	---	---	6.9	1.8	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	648	241	.2	.9	.04	.00
CAL YR 1993	TOTAL 886.17	MEAN 4.14	MAX 66	MIN .00	AC-FT 1760							
WTR YR 1994	TOTAL 448.86	MEAN 2.10	MAX 24	MIN .00	AC-FT 890							

RIO GRANDE BASIN

08284510 HERON RESERVOIR NEAR LOS OJOS, NM

LOCATION.--Lat 36°39'56", long 106°42'13", Rio Arriba County, Hydrologic Unit 13020102, in Tierra Amarilla Grant, at Heron Dam on Willow Creek, 0.2 mi upstream from Rio Chama, 5.1 mi northeast of El Vado Dam, and 8.7 mi southwest of Los Ojos.

DRAINAGE AREA.--193 mi².

PERIOD OF RECORD.--October 1970 to current year. Published as "near Park View" prior to 1976.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). Prior to Mar. 24, 1971, nonrecording gage.

REMARKS.--Reservoir is formed by earthfill dam; storage began Oct. 21, 1970. Total capacity 401,300 acre-ft at elevation 7,186.1 ft, low point on crest of uncontrolled spillway, including 1,340 acre-ft of dead storage at elevation 7,003.0 ft, invert of gate sill of outlet tunnel. Reservoir is used for storage of transmountain water from San Juan River basin and for recreation. Figures given herein represent total storage.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 401,800 acre-ft, July 28, 1982, elevation, 7,186.19 ft; no storage prior to Oct. 21, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 402,100 acre-ft, June 21, elevation, 7,186.23 ft; minimum, 334,300 acre-ft, Apr. 18, elevation, 7,174.10 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

(Based on survey by U.S. Bureau of Reclamation in 1971)

7,170	312,600
7,180	366,200
7,190	424,700

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	390140	388980	388630	387770	379820	369260	354570	344910	394980	399560	397980	396450
2	390140	388920	388630	387710	379360	368480	353860	345460	396510	399620	397980	396450
3	390030	388810	388460	387650	378960	368080	353140	345780	397860	399560	397620	396740
4	389910	388750	388460	387650	378960	367740	351990	346270	398740	399560	397800	396680
5	389850	388630	388400	387650	378390	367520	350460	346970	399740	399450	397740	396620
6	389800	388520	388400	387590	377940	367350	348930	348060	400570	399390	397620	396510
7	389740	388460	388340	387530	377650	367520	347520	349590	401160	399330	397510	396270
8	389680	388520	388340	387480	377540	367690	346000	350950	400860	399270	397510	396270
9	389680	388460	388290	387480	377020	367740	344860	352540	400980	399210	397390	396210
10	389620	388460	388290	387480	376570	367630	343720	353750	401270	399150	397680	396160
11	389560	388520	388290	387420	376170	367410	342480	354960	401330	399030	398150	396100
12	389450	388580	388340	387300	375710	367070	341250	356890	401390	398860	398150	396100
13	389390	388750	388290	387300	375320	366730	340220	359370	401390	398740	398090	396270
14	389330	388980	388230	387190	374860	366570	339150	361370	401390	398620	398030	396160
15	389270	388870	388230	386840	374410	366790	337490	363490	401390	398500	397980	396040
16	389210	388870	388290	386550	373950	367240	335840	365390	401390	398390	397860	396040
17	389560	388810	388230	386260	373560	367580	334400	367460	401390	398270	397800	395920
18	389560	388750	388170	385860	373330	367410	334300	369430	401390	398150	397740	395860
19	389560	388750	388110	385570	372990	367350	335040	371750	401450	398030	397560	395860
20	389500	388750	388170	385110	372590	367740	335840	373560	401510	398030	397560	395750
21	389450	388750	388110	384700	372200	367180	336690	375540	402100	397980	397510	395620
22	389390	388690	388110	384240	371690	365890	337760	377420	401510	397860	397390	395570
23	389330	388920	388060	383840	371240	364660	339040	379360	401450	397800	397330	395450
24	389330	388920	387940	383380	370840	363160	340280	381020	401040	397860	397270	395390
25	389270	388810	387880	383030	370450	361650	341190	383380	400860	397860	397210	395280
26	389160	388810	387880	382690	370000	360260	341730	385110	400510	397800	397090	395280
27	389040	388750	387820	382340	369600	358930	342540	386490	400150	398030	397040	395220
28	388980	388690	387820	381770	369260	357550	343400	388060	399920	398210	396980	395100
29	389040	388690	387880	381310	---	356940	343890	389560	399620	398150	396920	394810
30	388980	388630	387820	380850	---	356170	344430	391250	399560	398090	396680	394280
31	388980	---	387820	380340	---	355510	---	393110	---	398030	396510	---
MAX	390140	388980	388630	387770	379820	369260	354570	393110	402100	399620	398150	396740
MIN	388980	388460	387820	380340	369260	355510	334300	344910	394980	397800	396510	394280
(†)	7183.99	7183.93	7183.79	7182.49	7180.54	7178.07	7176.04	7184.70	7185.80	7185.54	7185.28	7184.90
(††)	-1160	-350	-810	-7480	-11080	-13750	-11080	+48680	+6450	-1530	-1520	-2230

CAL YR 1993 MAX 401040 MIN 312360 (††) +8970
WTR YR 1994 MAX 402100 MIN 334300 (††) +4140

(†) ELEVATION, IN FEET, AT END OF MONTH
(††) CHANGE IN CONTENTS, IN ACRE-FEET

RIO GRANDE BASIN

08284520 WILLOW CREEK BELOW HERON DAM, NM

LOCATION.--Lat 36°39'56", long 106°42'13", Rio Arriba County, Hydrologic Unit 13020102, in Tierra Amarilla Grant, in outlet conduits of Heron Dam. 0.2 mi upstream from Rio Chama. 5.1 mi northeast of El Vado Dam, and 8.7 mi southwest of Los Ojos.

DRAINAGE AREA.--193 mi².

PERIOD OF RECORD.--January 1971 to current year.

GAGE.--Totalizing flowmeters in each of two outlet conduits in Heron Dam.

REMARKS.--Flow regulated by Heron Reservoir (station 08284510). Outlet conduits are 14-in. and 120-in. in diameter.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

AVERAGE DISCHARGE.--23 years, 122 ft³/s, 88,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,780 ft³/s, Dec. 18, 19, 1982; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,340 ft³/s, April 17; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	237	235	485	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	236	235	481	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	236	235	480	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	236	235	702	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	236	235	938	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	236	235	938	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	236	235	933	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	236	235	930	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	236	263	930	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	236	295	930	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	236	296	931	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	236	296	929	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	236	296	927	.00	.00	.00	.00	.00
14	.00	.00	.00	78	236	295	927	.00	.00	.00	.00	.00
15	.00	.00	.00	150	235	295	1130	.00	.00	.00	.00	.00
16	.00	.00	.00	150	236	295	1340	.00	.00	.00	.00	.00
17	.00	.00	.00	150	236	374	1340	.00	.00	.00	.00	.00
18	.00	.00	.00	184	236	438	805	.00	.00	.00	.00	.00
19	.00	.00	.00	238	236	439	361	.00	.00	.00	.00	.00
20	.00	.00	.00	238	235	439	526	.00	.00	.00	.00	.00
21	.00	.00	.00	238	235	606	472	.00	.00	.00	.00	.00
22	.00	.00	.00	238	235	828	405	.00	164	.00	.00	.00
23	.00	.00	.00	238	235	904	352	.00	285	.00	.00	.00
24	.00	.00	.00	237	235	903	352	.00	281	.00	.00	.00
25	.00	.00	.00	237	235	902	352	.00	283	.00	.00	.00
26	.00	.00	.00	237	235	903	351	.00	283	.00	.00	45
27	.00	.00	.00	237	235	903	125	.00	283	.00	.00	72
28	.00	.00	.00	237	235	676	.00	.00	282	.00	.00	101
29	.00	.00	.00	236	---	495	154	.00	94	.00	22	144
30	.00	.00	.00	236	---	490	.00	.00	.00	.00	42	78
31	.00	---	.00	237	---	486	---	.00	---	.00	42	---
TOTAL	0.00	0.00	0.00	3796.00	6599	13997	19526.00	0.00	1955.00	0.00	106.00	440.00
MEAN	.000	.000	.000	122	236	452	651	.000	65.2	.000	3.42	14.7
MAX	.00	.00	.00	238	237	904	1340	.00	285	.00	42	144
MIN	.00	.00	.00	.00	235	235	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	7530	13090	27760	38730	.00	3880	.00	210	873

CAL YR 1993 TOTAL 59808.00 MEAN 164 MAX 1500 MIN .00 AC-FT 118600

WTR YR 1994 TOTAL 46419.00 MEAN 127 MAX 1340 MIN .00 AC-FT 92070

RIO GRANDE BASIN

08285000 EL VADO RESERVOIR NEAR TIERRA AMARILLA, NM

LOCATION.--Lat 36°35'39", long 106°44'00", Rio Arriba County, Hydrologic Unit 13020102, Tierra Amarilla Grant, at outlet tower of dam on Rio Chama, at village of El Vado, 12.4 mi southwest of Tierra Amarilla, and at mile 77.7.

DRAINAGE AREA.--873 mi², of which about 100 mi² probably is noncontributing.

PERIOD OF RECORD.--January 1935 to September 1965 (monthend contents only), October 1965 to current year. Prior to October 1967, contents at about 0730 hours.

GAGE.--Water-stage recorder. Prior to October 1967, nonrecording gage only below gage height 6,879.3 ft. Datum of gage is 8.21 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Reservoir is formed by rockfill dam, steel faced. Storage began in January 1935. Capacity 186,250 acre-ft between gage heights 6,759.0 ft and 6,902.0 ft, top of spillway gate. Dead storage, 1,480 acre-ft below 6,775.0 ft, sill of outlet works. Figures given herein represent total contents. Reservoir is used to impound water for irrigation by Middle Rio Grande Conservancy District and, since December 1972, for storage of contract water from San Juan-Chama Project. Rehabilitation of outlet works, completed in December 1966, increased valve-controlled release from about 1,750 ft³/s to about 6,000 ft³/s.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 204,900 acre-ft, of which 7,400 acre-ft was uncontrolled storage, June 4, 5, 1948, gage height, 6,904.2 ft; no storage at times prior to December 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 182,170 acre-ft, June 10, elevation, 6,900.73 ft; minimum, 94,520 acre-ft, Sept. 30, elevation 6,867.34.

Capacity table (gage height, in feet, and contents, in acre-feet)

(Based on survey by U.S. Bureau of Reclamation in 1984)

6,845	56,100	6,875	111,000
6,850	63,730	6,885	135,900
6,860	80,510	6,895	164,400
6,865	89,870	6,900	179,800

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127300	118910	111390	103110	101990	106990	133070	138970	172140	180800	140620	106820
2	126770	118790	111110	102870	102180	107400	132570	139450	174690	180450	139530	106110
3	126390	118570	110950	102610	102350	107870	131940	140100	176320	180200	138450	105640
4	126060	118210	110520	102350	102610	108450	131260	140920	177640	179530	137380	105130
5	125700	117870	110240	102070	102760	109080	130130	142290	178580	178770	136050	104430
6	125350	117560	109950	101790	102890	109670	128760	144230	179500	177860	134250	103840
7	125120	117240	109740	101530	103040	110330	127350	145980	180550	177170	132910	103450
8	124900	116960	109360	101210	103230	111040	126310	147190	181220	176160	131600	102980
9	124670	116640	109040	100940	103340	111620	125830	147640	181820	175380	130590	102520
10	124440	116360	108790	100680	103500	112170	125200	147080	182170	174630	129740	101980
11	124140	116120	108540	100390	103670	112730	124540	147330	181980	173750	128910	101530
12	123840	115950	108360	100110	103800	113170	123920	148800	181920	172820	127660	101070
13	123570	115760	108050	99900	103950	113590	123640	149660	182080	171890	125960	100660
14	123320	115600	107710	99730	104100	114130	123620	149720	182110	170870	124520	100320
15	123020	115410	107400	99730	104280	114840	124070	150140	182040	169300	123670	99920
16	122540	115170	107130	99710	104450	115720	125000	151490	181820	166910	122970	99480
17	122570	114890	106900	99710	104610	117000	126310	152040	181600	164540	122150	99060
18	122470	114650	106640	99730	104850	118590	127300	151950	181410	162190	121310	98600
19	122270	114440	106330	99860	105090	120450	127460	152890	181410	159800	120200	98160
20	122020	114250	106080	100030	105270	122590	128170	152700	181500	157640	118740	97680
21	121750	113990	105800	100150	105400	124640	129710	151890	181880	155730	117560	97350
22	121580	113780	105530	100320	105570	126870	131450	151580	182040	153830	116910	97020
23	121380	113760	105240	100470	105750	128730	133720	152240	181950	151980	116050	96650
24	121010	113660	105000	100640	105880	130250	136070	153080	181600	150490	115120	96280
25	120840	113360	104740	100810	106020	131580	137430	154440	181340	149430	114200	95890
26	120540	112960	104500	100980	106190	133040	137300	156550	181410	149350	113030	95540
27	120250	112570	104280	101190	106460	134480	137030	158460	181340	147610	111530	95190
28	119960	112270	104100	101360	106700	134960	137270	160600	181280	146660	110130	94930
29	119740	111990	103890	101530	---	134480	138020	163090	181090	145400	109240	94770
30	119490	111690	103630	101730	---	134010	138510	166210	180930	143670	108430	94520
31	119220	---	103390	101880	---	133560	---	169450	---	141930	107600	---
MAX	127300	118910	111390	103110	106700	134960	138510	169450	182170	180800	140620	106820
MIN	119220	111690	103390	99710	101990	106990	123620	138970	172140	141930	107600	94520
(†)	6878.46	6875.28	6871.57	6870.87	6873.08	6884.12	6885.98	6896.67	6900.34	6887.24	6873.48	6867.34
(††)	-8470	-7530	-8300	-1510	+4820	+26860	+4950	+30940	+11480	-39000	-34330	-13080
CAL YR 1993	MAX 180390	MIN 61200	(††) +20890									
WTR YR 1994	MAX 182170	MIN 94520	(††) -33170									

(†) ELEVATION, IN FEET, AT END OF MONTH

(††) CHANGE IN CONTENTS, IN ACRE-FEET

RIO GRANDE BASIN

08285500 RIO CHAMA BELOW EL VADO DAM, NM

LOCATION.--Lat 36°34'48", long 106°43'24", Rio Arriba County, Hydrologic Unit 13020102, in Tierra Amarilla Grant, on left bank 1.5 mi downstream from El Vado Dam, 4.0 mi upstream from Rio Nuevas, 10 mi southwest of Tierra Amarilla, and at mile 74.2.

PERIOD OF RECORD.--October 1913 to November 1915, April to November 1916, March, April 1920, September 1920 to August 1924, October 1935 to current year. Monthly discharge only for some periods, published in WSP 1312.

Published as "Chama River" prior to 1935, as "near Tierra Amarilla" 1913-14, 1935-47, as "near El Vado" 1915-16, and as "at El Vado" 1920-24.

REVISED RECORDS.--WSP 1312: 1914, 1949. WSP 1392: 1949. WDR-NM-90: 1989.

GAGE.--Water-stage recorder. Datum of gage is 6,696.12 ft above National Geodetic Vertical Datum of 1929. Prior to October 1935, at site 1.5 mi upstream at different datum. October 1935 to September 1938 at site 1.1 mi upstream at datum 30.34 ft higher.

REMARKS.--Records good. Flow regulated by El Vado Reservoir (station 08285000) since 1935. Flow affected by release of transmountain water from Heron Reservoir (station 08284510) since May 1971. Diversions for irrigation of about 10,600 acres upstream from station. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--5 years (water years 1914-15, 1921-23), 448 ft³/s, 324,600 acre-ft/yr, prior to completion of El Vado Dam. 35 years (water years 1936-70), 373 ft³/s, 270,200 acre-ft/yr, prior to release of transmountain water.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,000 ft³/s, May 22, 1920, gage height, 12 ft, site and datum then in use, from rating curve extended above 3,500 ft³/s; no flow Mar. 25, 26, 31, 1955. Maximum discharge since construction of El Vado Dam in 1935, 6,610 ft³/s, May 7, 1985, gage height, 7.08 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 4 or 5, 1911, was greater than floods in September 1904 and May 1920, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	236	183	209	200	185	196	1010	602	513	211	716	471
2	235	190	214	200	188	194	1110	527	651	213	581	470
3	233	191	207	200	190	193	1110	461	895	214	577	470
4	214	190	205	200	198	196	1540	471	1000	358	578	465
5	194	190	207	204	203	191	1890	769	1000	460	711	467
6	190	190	207	207	203	196	1930	1340	797	505	989	358
7	190	190	208	200	201	202	1960	1980	626	494	789	290
8	190	190	213	200	200	201	1720	2180	655	455	567	289
9	188	190	215	200	200	200	1540	2830	547	433	567	287
10	186	190	214	200	200	200	1510	2530	611	435	567	289
11	186	190	214	206	200	200	1520	1750	797	477	569	289
12	186	190	216	201	200	197	1530	2320	641	511	739	289
13	183	190	218	200	200	196	1520	3440	502	508	985	289
14	187	190	216	200	200	196	1520	4160	513	503	774	289
15	191	190	217	200	200	196	1570	3980	516	930	490	286
16	190	190	218	200	200	199	1600	3620	514	1250	446	285
17	190	191	218	200	200	196	1600	4130	516	1260	445	285
18	190	189	218	200	200	198	1610	4350	464	1250	479	285
19	190	182	218	200	200	201	1620	4200	377	1250	580	285
20	187	176	218	200	200	194	1410	4310	338	1140	772	285
21	186	176	218	197	200	195	1210	4050	373	1030	638	235
22	186	188	205	196	200	200	1270	3420	571	975	451	207
23	186	207	193	196	200	356	1360	2880	734	972	485	223
24	186	211	191	196	200	454	1730	2580	772	774	504	225
25	186	207	190	196	197	454	2060	2050	552	539	502	225
26	186	198	190	196	197	454	2040	1270	437	539	618	231
27	186	209	190	196	199	454	1550	997	439	537	798	226
28	186	214	190	196	198	602	911	993	439	537	674	225
29	186	211	190	196	---	874	746	912	321	702	494	225
30	179	207	191	196	---	895	598	646	216	957	470	225
31	176	---	191	193	---	914	---	513	---	955	469	---
TOTAL	5965	5800	6409	6172	5559	9794	44295	70261	17327	21374	19024	8970
MEAN	192	193	207	199	199	316	1476	2266	578	689	614	299
MAX	236	214	218	207	203	914	2060	4350	1000	1260	989	471
MIN	176	176	190	193	185	191	598	461	216	211	445	207
AC-FT	11830	11500	12710	12240	11030	19430	87860	139400	34370	42400	37730	17790

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1994, BY WATER YEAR (WY)

	189	182	310	153	169	295	929	1724	853	382	324	288
MEAN	189	182	310	153	169	295	929	1724	853	382	324	288
MAX	607	646	1272	435	522	962	1887	3412	2184	707	670	692
(WY)	1987	1987	1976	1987	1986	1985	1986	1985	1983	1992	1992	1976
MIN	36.7	43.9	63.2	23.9	17.1	27.8	33.2	262	186	126	54.4	50.6
(WY)	1979	1977	1971	1978	1976	1973	1973	1972	1976	1985	1971	1972

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1971 - 1994

ANNUAL TOTAL	256278	220950	
ANNUAL MEAN	702	605	485
HIGHEST ANNUAL MEAN			754
LOWEST ANNUAL MEAN			194
HIGHEST DAILY MEAN	3870	May 28	5790
LOWEST DAILY MEAN	176	Oct 31	11
ANNUAL SEVEN-DAY MINIMUM	183	Oct 26	16
ANNUAL RUNOFF (AC-FT)	508300	438300	351000
10 PERCENT EXCEEDS	1720	1520	1180
50 PERCENT EXCEEDS	312	231	219
90 PERCENT EXCEEDS	190	190	40

RIO GRANDE BASIN

08286500 RIO CHAMA ABOVE ABIQUIU RESERVOIR, NM

LOCATION.--Lat 36°19'06", long 106°35'50", Rio Arriba County, Hydrologic Unit 13020102, on left bank 40 ft downstream from site of former bridge, 7.7 mi downstream from Rio Gallina, 9 mi northwest of Youngsville, 15.6 mi upstream from Abiquiu Dam, 30.3 mi downstream from El Vado Dam, and at mile 47.4.

DRAINAGE AREA.--1,600 mi², of which about 100 mi² is probably noncontributing.

PERIOD OF RECORD.--August 1961 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,280 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by El Vado Reservoir (08285000). Since May 1971 flow affected by release of transmountain water from Heron Reservoir (station 08284510). Diversions for irrigation of about 15,000 acres upstream from station. Several observations of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemeter at station.

AVERAGE DISCHARGE.--9 years (water years 1962-70), 358 ft³/s, 259,400 acre-ft/yr, prior to release of transmountain water.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods probably occurred on Sept. 29, 1904, Oct. 4 or 5, 1911, and May 22, 1920.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	247	200	234	204	191	404	1120	757	590	216	871	507
2	246	210	234	205	205	375	1300	722	636	212	624	532
3	248	213	234	203	212	389	1310	577	874	210	610	729
4	246	212	234	203	209	382	1560	578	1060	237	605	578
5	203	210	234	200	213	368	2120	703	1070	411	624	502
6	202	210	224	204	210	315	2170	1190	977	492	991	462
7	202	210	222	202	206	279	2210	2290	691	493	947	321
8	202	210	e220	199	213	271	2080	2210	678	473	613	307
9	202	210	e230	208	208	257	1810	2870	669	427	606	301
10	202	210	e235	208	207	222	1780	2930	519	422	608	299
11	202	215	e240	207	207	207	1790	2020	806	422	632	298
12	202	221	e243	212	208	200	1790	2100	776	499	630	293
13	203	218	e244	210	207	194	1770	3340	525	494	984	307
14	202	222	e248	208	209	189	1830	4240	532	498	1020	380
15	207	218	235	207	209	197	1830	4420	538	598	688	301
16	204	217	219	206	208	205	1860	3650	532	1190	587	294
17	213	230	219	206	209	213	1860	4190	530	1250	480	287
18	220	227	217	208	224	224	1870	4750	502	1260	490	287
19	208	218	220	206	238	228	1870	4680	433	1260	526	286
20	206	198	219	203	219	240	1760	4640	350	1220	770	281
21	205	195	220	201	215	231	1490	4720	344	1120	822	278
22	205	195	221	201	217	220	1500	3960	481	1000	498	190
23	204	254	197	201	214	261	1640	3280	664	1000	494	217
24	205	268	199	199	214	504	1880	2800	743	947	534	221
25	204	235	202	199	218	510	2350	2460	683	588	520	221
26	204	228	204	201	291	515	2400	1630	435	576	527	223
27	207	232	206	200	474	526	2110	1140	433	643	795	223
28	205	233	194	200	448	544	1130	1120	443	628	785	223
29	204	234	200	198	---	984	1030	1100	428	609	541	223
30	204	234	193	200	---	1050	771	831	235	966	501	223
31	197	---	190	197	---	1060	---	598	---	981	494	---
TOTAL	6511	6587	6831	6306	6503	11764	51991	76496	18177	21342	20417	9794
MEAN	210	220	220	203	232	379	1733	2468	606	688	659	326
MAX	248	268	248	212	474	1060	2400	4750	1070	1260	1020	729
MIN	197	195	190	197	191	189	771	577	235	210	480	190
AC-FT	12910	13070	13550	12510	12900	23330	103100	151700	36050	42330	40500	19430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1994, BY WATER YEAR (WY)

	200	189	318	161	190	337	993	1837	895	390	340	293
MEAN	200	189	318	161	190	337	993	1837	895	390	340	293
MAX	625	676	1273	431	495	1050	1985	3741	2409	707	665	724
(WY)	1987	1987	1976	1987	1987	1985	1985	1984	1983	1992	1993	1976
MIN	40.1	48.4	74.0	29.1	29.7	44.1	106	259	185	132	86.1	77.9
(WY)	1979	1977	1971	1978	1976	1977	1977	1972	1976	1985	1979	1972

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1971 - 1994
ANNUAL TOTAL	275452	242719	
ANNUAL MEAN	755	665	513
HIGHEST ANNUAL MEAN			823
LOWEST ANNUAL MEAN			204
HIGHEST DAILY MEAN	4530	May 28	4750
LOWEST DAILY MEAN	190	Dec 31	189
ANNUAL SEVEN-DAY MINIMUM	198	Dec 25	198
INSTANTANEOUS PEAK FLOW			5070
INSTANTANEOUS PEAK STAGE			7.20
INSTANTANEOUS LOW FLOW			92
ANNUAL RUNOFF (AC-FT)	546400	481400	372000
10 PERCENT EXCEEDS	1850	1780	1230
50 PERCENT EXCEEDS	364	287	233
90 PERCENT EXCEEDS	206	202	55

e Estimated

RIO GRANDE BASIN

08286900 ABIQUIU RESERVOIR NEAR ABIQUIU, NM

LOCATION.--Lat 36°14'24", long 106°25'44", Rio Arriba County, Hydrologic Unit 13020102, in Piedra Lumbre Grant, in

PERIOD OF RECORD.--February 1963 to September 1965 (monthend contents only), October 1965 to current year. October 1969 to December 1975, contents at 0800 hours.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Corps of Engineers).

REMARKS.--Reservoir is formed by earthfill dam, completed Feb. 5, 1963. Capacity, 1,198,500 acre-ft between elevations 6,060 ft, invert of outlet tunnel, and 6,350 ft, crest of spillway, based on capacity table from survey 1990. No dead storage. Reservoir is used for flood control and, since March 1976, for recreation. A desilting pool of about 2,000 acre-ft was maintained from May 1968 to 1974, when it was increased to 4,000 acre-ft and continued until December 1975. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Records provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 382,720 acre-ft, June 11, 1985, elevation, 6,256.22 ft; no storage at times prior to May 1968 and Jan. 11 to Mar. 25, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 244,440 acre-ft, May 26, elevation, 6,232.66 ft; minimum, 162,700 acre-ft, Sept. 30, elevation, 6,213.28 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

(Based on survey by U.S. Army Corps of Engineers in 1990)

6,200	115,360	6,240	280,470
6,220	189,310	6,250	333,840
6,230	232,160	6,260	392,280

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	217920	205930	188320	174340	175840	181150	179500	189180	236920	177750	172490	171190
2	217660	205210	187670	174420	175800	181300	179540	187380	235080	176790	172290	171700
3	217480	204490	187010	174420	175840	181180	179580	185300	233660	175720	172210	172410
4	217050	203780	186320	174460	175880	180940	179900	183200	232610	174810	171820	172960
5	216230	203060	185630	174500	176000	180740	180580	181470	231480	174180	171860	173390
6	215450	202350	185100	174570	176240	180540	181430	180940	230030	173940	171980	173750
7	214800	201640	184410	174650	176440	180380	182270	181710	228150	173900	172290	173710
8	214150	200960	183720	174690	176590	180140	182870	183240	226270	173390	172210	173630
9	213720	200420	182960	174730	176790	179780	183080	185260	224410	172650	171940	173630
10	213040	199670	182270	174770	176990	179380	183120	187750	222290	171980	171510	173630
11	212180	199040	181630	174810	177070	178980	183200	188900	220490	171510	171120	173040
12	211540	198500	180980	174890	177150	179180	183280	190330	218790	170760	170840	172570
13	210980	198000	180380	174970	177230	179420	183160	193510	216750	170260	170800	172250
14	210600	197500	179660	175050	177390	179500	183520	200210	214540	169590	171160	172140
15	210130	196960	179060	175090	177390	179300	183800	204160	212350	168820	171310	171740
16	209320	196370	178420	175130	177510	179140	184290	208510	210130	168970	171550	171470
17	208600	195830	177710	175170	177750	178940	184900	213380	207830	169320	172060	171120
18	208210	195250	176990	175250	177990	178980	185750	217960	205550	169440	172140	170840
19	208300	194710	176280	175330	178220	179020	186570	223440	203230	169630	171940	170490
20	208090	194170	175560	175400	178420	179060	187100	228010	200710	169910	171940	169980
21	207830	193680	174930	175450	178660	178900	187340	232430	198330	169910	171940	169280
22	207710	193060	174220	175520	178780	178620	187540	236920	196370	170140	171700	168660
23	207660	192560	173980	175560	178860	178260	188200	240060	194210	170760	171390	168000
24	207580	192150	173980	175600	178940	177990	189630	242100	191730	171230	171190	167910
25	207580	191570	173980	175640	179220	177990	191690	244070	189590	171230	171040	166650
26	207320	191030	173980	175680	179820	178070	192770	244440	187750	170720	170920	166030
27	206900	190500	174020	175720	180380	178110	193630	244110	185550	170530	171160	165270
28	206650	189960	174100	175800	180860	178180	193300	242800	183040	170330	171430	164460
29	206560	189430	174180	175840	---	178580	192060	241640	180380	170300	171390	163650
30	206520	188900	174260	175880	---	179220	190740	240610	178540	171080	171120	162700
31	206430	---	174300	175880	---	179500	---	238900	---	171980	170800	---
MAX	217920	205930	188320	175880	180860	181300	193630	244440	236920	177750	172490	173750
MIN	206430	188900	173980	174340	175800	177990	179500	180940	178540	168820	170800	162700
(†)	6224.11	6219.90	6216.27	6216.67	6217.92	6217.58	6220.35	6231.47	6217.34	6215.68	6215.38	6213.28
(††)	-11710	-17530	-14600	+1580	+4980	-1360	+11240	+48160	-60360	-6560	-1180	-8100
CAL YR 1993	MAX 264470	MIN 127060	(††) +47420									
WTR YR 1994	MAX 244440	MIN 162700	(††) -55440									

(†) ELEVATION, IN FEET, AT END OF MONTH

(††) CHANGE IN CONTENTS, IN ACRE FEET

RIO GRANDE BASIN

08287000 RIO CHAMA BELOW ABIQUIU DAM, NM

LOCATION.--Lat 36°14'12", Long 106°24'59", in SE¼SE¼ sec.8, T.23 N., R.5 E., Rio Arriba County, Hydrologic Unit 13020102, on right bank 0.8 mi downstream from Abiquiu Dam, 5.9 mi northwest of Abiquiu, and at mile 31.3.

DRAINAGE AREA.--2,147 mi², of which about 100 mi² is probably noncontributing.

PERIOD OF RECORD.--October 1961 to current year (monthly discharge only, October 1961).

REVISED RECORDS.--WDR-NM-90: 1989.

GAGE.--Water-stage recorder. Concrete control since Jan. 25, 1966. Elevation of gage is 6,040 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Jan. 25, 1966, at datum 1.60 ft lower.

REMARKS.--Records good. Flow controlled by El Vado Reservoir (station 08285000) 46.4 mi upstream and Abiquiu Reservoir (station 08286900) 0.8 mi upstream since February 1963. Since May 1971 flow affected by release of transmountain water from Heron Reservoir (station 08284510) 54.5 mi upstream. Diversions for irrigation of about 17,600 acres upstream from station. U.S. Army Corps of Engineers satellite telemeter at station. Several observations of water temperature taken during year.

AVERAGE DISCHARGE.--9 years (water years 1962-70), 384 ft³/s, 278,200 acre-ft/yr, prior to release of transmountain water.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	339	446	544	155	177	248	1240	1780	1800	663	585	443
2	314	517	536	154	179	360	1340	1790	1790	618	642	242
3	314	528	540	153	180	455	1410	1790	1790	685	641	401
4	395	530	547	159	182	484	1490	1790	1790	678	681	249
5	551	524	544	163	162	487	1600	1800	1790	607	751	242
6	555	524	546	166	134	484	1710	1710	1790	494	767	241
7	530	523	561	174	129	482	1750	1560	1810	542	759	260
8	457	519	583	176	129	479	1770	1560	1780	680	760	339
9	434	521	585	169	129	474	1750	1560	1800	765	759	384
10	480	509	565	155	128	477	1770	1700	1800	764	748	417
11	601	487	535	152	142	482	1770	1820	1800	732	833	417
12	493	488	541	152	145	214	1770	1820	1800	750	894	441
13	414	491	539	160	144	95	1780	1690	1800	752	897	466
14	419	497	543	171	143	179	1780	1470	1800	821	894	430
15	469	502	563	165	143	301	1730	1360	1790	989	764	407
16	556	498	568	157	142	305	1710	1530	1830	1090	388	407
17	555	494	572	154	136	300	1720	1670	1830	1100	196	407
18	387	501	568	157	138	297	1710	1750	1840	1200	400	404
19	233	490	566	158	138	298	1630	1790	1830	1160	712	438
20	284	486	568	152	136	300	1610	1800	1830	1100	726	509
21	284	488	562	160	136	365	1610	1810	1830	1120	725	508
22	263	485	564	175	136	452	1560	1820	1830	859	680	508
23	243	488	378	175	136	559	1460	1820	1850	625	610	490
24	212	488	156	176	137	618	1380	1810	1850	625	609	499
25	224	485	158	175	121	596	1390	1680	1850	700	601	492
26	300	488	158	179	89	482	1470	1590	1840	733	601	546
27	293	489	155	179	90	495	1530	1590	1830	733	602	576
28	278	495	151	179	157	605	1790	1680	1830	683	609	575
29	254	490	151	179	---	708	1710	1790	1820	545	608	574
30	236	505	150	179	---	719	1670	1810	1410	511	609	681
31	229	---	152	178	---	897	---	1810	---	430	608	---
TOTAL	11596	14976	13849	5136	3938	13697	48610	52950	54030	23754	20659	12993
MEAN	374	499	447	166	141	442	1620	1708	1801	766	666	433
MAX	601	530	585	179	182	897	1790	1820	1850	1200	897	681
MIN	212	446	150	152	89	95	1240	1360	1410	430	196	241
AC-FT	23000	29700	27470	10190	7810	27170	96420	105000	107200	47120	40980	25770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1994, BY WATER YEAR (WY)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
MEAN	268	313	329	186	248	429	936	1200	1079	643	453	391												
MAX	1261	1181	1308	860	1708	1668	1894	2055	2418	1488	1084	1199												
(WY)	1988	1980	1976	1986	1987	1987	1985	1983	1984	1973	1973	1987												
MIN	44.9	45.8	43.9	35.7	38.0	52.4	111	242	184	201	98.4	64.4												
(WY)	1979	1990	1975	1978	1978	1977	1977	1972	1976	1972	1979	1972												

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1971 - 1994

ANNUAL TOTAL	261524	276188	
ANNUAL MEAN	717	757	540
HIGHEST ANNUAL MEAN			872
LOWEST ANNUAL MEAN			213
HIGHEST DAILY MEAN	1870	1850	2660
LOWEST DAILY MEAN	75	89	10
ANNUAL SEVEN-DAY MINIMUM	109	121	21
ANNUAL RUNOFF (AC-FT)	518700	547800	391400
10 PERCENT EXCEEDS	1760	1790	1620
50 PERCENT EXCEEDS	495	540	288
90 PERCENT EXCEEDS	162	156	52

RIO GRANDE BASIN

08289000 RIO OJO CALIENTE AT LA MADERA, NM

LOCATION.--Lat 36°20'59", long 106°02'37", in NW¼NE¼ sec.1, T.24 N., R.8 E., Rio Arriba County, Hydrologic Unit 13020102, on left bank 400 ft upstream from bridge on State Highway 554, 2.4 mi south of La Madera, 2.6 mi downstream from confluence of Rio Vallacitos and Rio Tuxas. 3.1 mi north of Ojo Caliente. and at mile 19.9.

PERIOD OF RECORD.--April 1932 to current year.

REVISED RECORDS.--WSP 1712: 1959.

GAGE.--Water-stage recorder. Datum of gage is 6,358.84 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 23, 1934, at site about 2.6 mi upstream at different datum. Apr. 23, 1934 to Apr. 21, 1936, at datum 12.58 ft lower and Apr. 22, 1936 to Oct. 26, 1956, at datum 13.84 ft lower, both at site 1,400 ft downstream.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 3,500 acres (1962 determination). Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Apr. 21, 1958, may have been exceeded by a flood in May 1920, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	e13	e23	18	18	31	151	270	146	9.1	5.4	35
2	7.7	e12	e22	19	19	30	172	264	133	8.3	5.5	40
3	8.0	e12	e22	19	20	36	149	302	114	8.2	5.2	23
4	8.1	e12	e21	19	21	42	184	373	106	7.8	5.0	20
5	8.1	e12	e21	19	21	46	178	571	90	7.3	5.7	19
6	8.1	e11	e20	20	21	54	136	790	78	6.6	5.6	18
7	8.7	e11	e20	18	21	63	142	858	68	6.4	5.2	17
8	9.2	e12	e19	19	22	77	123	825	54	6.4	4.8	16
9	9.7	e12	e18	19	21	58	136	804	42	6.1	5.0	16
10	10	e13	e18	19	21	56	149	596	37	6.3	5.1	16
11	10	e13	e18	19	21	61	152	485	34	6.2	5.5	15
12	10	e14	e17	19	22	62	166	706	33	6.3	5.4	15
13	10	e15	e20	18	20	48	243	780	33	6.2	5.8	17
14	e11	e17	e21	17	21	54	268	1090	28	5.9	257	16
15	e11	e18	e22	17	21	67	290	935	23	5.8	16	19
16	e12	e17	20	17	21	100	310	895	21	5.7	16	18
17	e12	e17	20	17	22	156	388	842	19	5.4	18	17
18	e13	e16	19	18	26	207	470	648	18	5.4	20	16
19	e14	e16	19	18	24	251	529	637	18	5.5	19	16
20	e13	e15	19	18	24	252	565	640	19	5.5	12	16
21	e13	e15	18	19	23	210	653	407	22	6.0	20	16
22	e12	e16	18	18	23	170	760	316	26	6.3	20	15
23	e12	e18	17	18	22	162	880	287	21	5.5	15	15
24	e12	e20	16	19	22	141	1050	263	16	5.4	15	15
25	e12	e23	17	19	24	126	902	291	14	5.3	16	14
26	e13	e27	18	20	27	110	474	354	13	7.1	18	15
27	e14	e26	18	20	35	102	364	280	12	5.5	17	14
28	e13	e25	19	20	36	86	284	222	10	5.6	17	14
29	e14	e24	19	20	---	101	287	213	9.6	5.3	20	14
30	e14	e23	19	19	---	119	266	188	9.5	5.3	22	14
31	e13	---	19	19	---	137	---	159	---	5.2	29	---
TOTAL	343.5	495	597	578	639	3215	10821	16291	1267.1	192.9	636.2	531
MEAN	11.1	16.5	19.3	18.6	22.8	104	361	526	42.2	6.22	20.5	17.7
MAX	14	27	23	20	36	252	1050	1090	146	9.1	257	40
MIN	7.7	11	16	17	18	30	123	159	9.5	5.2	4.8	14
AC-FT	681	982	1180	1150	1270	6380	21460	32310	2510	383	1260	1050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 1994, BY WATER YEAR (WY)

	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944
MEAN	14.6	17.5	17.6	18.4	22.9	56.6	290	323	49.7	9.86	14.3	10.8
MAX	57.5	49.2	36.0	33.5	55.5	164	979	1256	275	33.1	68.1	29.8
(WY)	1987	1987	1987	1952	1941	1937	1937	1941	1941	1949	1967	1936
MIN	3.98	8.82	11.2	10.0	12.0	15.5	44.5	9.32	5.09	2.64	3.13	2.30
(WY)	1957	1957	1957	1964	1955	1981	1955	1977	1954	1951	1956	1956

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1933 - 1994

ANNUAL TOTAL	47624.3	35606.7	70.6
ANNUAL MEAN	130	97.6	205
HIGHEST ANNUAL MEAN			13.4
LOWEST ANNUAL MEAN			1941
HIGHEST DAILY MEAN	1290	May 17	2180
LOWEST DAILY MEAN	6.0	Jul 25	Aug 18 1942
ANNUAL SEVEN-DAY MINIMUM	6.2	Jul 23	Aug 18 1956
INSTANTANEOUS PEAK FLOW			1.1
INSTANTANEOUS PEAK STAGE			Oct 1 1956
INSTANTANEOUS LOW FLOW			Aug 14 1994
ANNUAL RUNOFF (AC-FT)	94460	70630	8.27
10 PERCENT EXCEEDS	463	287	Aug 14 1994
50 PERCENT EXCEEDS	22	19	Aug 17 1956
90 PERCENT EXCEEDS	8.1	6.4	5.3

e Estimated

a-From slope-area measurement of peak flow.

RIO GRANDE BASIN
08290000 RIO CHAMA NEAR CHAMITA, NM -- Continued

WATER-QUALITY RECORDS

REPORT OF RECORD. MADE FROM 1910 TO 1915 YEAR.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	
OCT 1993													
20...	0845	250	358	8.4	17.5	10.5	624	8.9	98	--	--	130	
NOV													
22...	1130	587	297	8.3	8.0	6.0	622	10.2	101	K8	60	120	
DEC													
15...	0900	636	305	8.4	-4.0	2.0	613	10.8	97	--	--	120	
JAN 1994													
14...	0930	270	365	8.3	0.0	0.0	624	11.9	100	--	--	140	
FEB													
24...	1200	201	384	8.2	13.0	3.0	617	10.8	100	--	--	150	
MAR													
23...	0930	660	290	8.2	14.0	6.5	615	10.0	101	90	74	110	
APR													
20...	1000	2400	246	8.0	--	8.0	623	9.6	99	--	--	98	
MAY													
24...	0830	1990	276	7.7	12.5	10.5	628	9.3	101	230	100	110	
JUN													
07...	1245	1790	272	8.1	22.5	14.0	618	8.8	106	--	--	110	
JUL													
20...	0800	970	270	8.0	20.0	14.0	623	8.1	96	--	--	100	
AUG													
09...	1215	714	261	8.2	30.5	18.0	626	8.3	107	0	200	110	
SEP													
08...	0915	619	303	8.0	16.5	17.0	624	7.6	97	--	--	120	
29...	1015	553	285	8.3	14.0	14.0	622	8.5	101	--	--	--	
DATE		HARD- NESS NONCARE DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB AS (MG/L CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT 1993													
20...	28	37	8.2	20	0.8	3.1	120	0	98	104	67	5.3	
NOV													
22...	35	36	7.5	17	0.7	1.8	105	0	86	94	62	3.9	
DEC													
15...	21	35	7.3	15	0.6	1.3	117	0	96	89	61	3.3	
JAN 1994													
14...	34	42	9.0	23	0.8	2.2	132	0	108	111	65	6.6	
FEB													
24...	35	43	9.3	24	0.9	2.3	135	0	116	115	72	8.5	
MAR													
23...	28	32	7.0	15	0.6	2.2	99	0	81	85	54	4.2	
APR													
20...	31	29	6.3	11	0.5	1.8	82	0	67	74	49	2.4	
MAY													
24...	31	31	7.0	11	0.5	1.7	92	0	76	79	53	2.5	
JUN													
07...	31	31	7.0	12	0.5	1.7	92	0	75	80	53	2.3	
JUL													
20...	29	30	6.0	11	0.5	1.5	86	0	70	77	50	2.0	
AUG													
09...	35	32	6.4	11	0.5	1.5	87	0	71	77	47	2.0	
SEP													
08...	35	37	6.8	15	0.6	2.2	104	0	86	89	56	3.6	
29...	--	--	--	--	--	--	85	0	69	--	--	--	

WATER-QUALITY RECORDS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 104

[illegible]

RIO GRANDE BASIN

08290000 RIO CHAMA NEAR CHAMITA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	DDT, TOTAL (UG/L) (39370)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDO- SULFAN, TOTAL (UG/L) (39388)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	TOX- APHENE, TOTAL (UG/L) (39400)	HEPTA- CHLOR, TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	METH- OXY- CHLOR, TOTAL (UG/L) (39480)	PCB, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)
OCT 20...	--	--	--	--	--	--	--	--	--	--	--
NOV 22...	<0.010	<0.010	<0.010	<0.010	<0.01	<1	<0.010	<0.010	<0.01	<0.1	<0.01
DEC 15...	--	--	--	--	--	--	--	--	--	--	--
JAN 14...	--	--	--	--	--	--	--	--	--	--	--
FEB 24...	--	--	--	--	--	--	--	--	--	--	--
MAR 23...	--	--	--	--	--	--	--	--	--	--	--
APR 20...	--	--	--	--	--	--	--	--	--	--	--
MAY 24...	--	--	--	--	--	--	--	--	--	--	--
JUN 07...	--	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--	--
AUG 09...	<0.010	<0.010	<0.010	<0.010	<0.01	<1	<0.010	<0.010	<0.01	<0.1	<0.01
SEP 08...	--	--	--	--	--	--	--	--	--	--	--

DATE	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	MIREX, TOTAL (UG/L) (39755)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRI- THION TOTAL (UG/L) (39786)	2, 4-DP TOTAL (UG/L) (82183)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (UG/L) (82614)	SAM- PLING METHOD, CODES (82398)
OCT 20...	--	--	--	--	--	--	--	--	--	--	10
NOV 22...	<0.01	<0.01	<0.01	--	--	<0.01	--	<0.01	--	<0.01	10
DEC 15...	--	--	--	--	--	--	--	--	--	--	10
JAN 14...	--	--	--	--	--	--	--	--	--	--	10
FEB 24...	--	--	--	--	--	--	--	--	--	--	10
MAR 23...	--	--	--	<0.01	<0.01	--	<0.01	--	<0.01	--	10
APR 20...	--	--	--	--	--	--	--	--	--	--	--
MAY 24...	--	--	--	--	--	--	--	--	--	--	10
JUN 07...	--	--	--	--	--	--	--	--	--	--	10
JUL 20...	--	--	--	--	--	--	--	--	--	--	10
AUG 09...	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	10
SEP 08...	--	--	--	--	--	--	--	--	--	--	10

CROSS SECTION ANALYSES

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 1993						
20...	0800	7.70	348	8.7	11.0	9.4
20...	0802	23.1	347	8.6	10.5	9.5
20...	0804	38.5	347	8.5	10.5	9.5
20...	0806	53.9	348	8.6	10.5	9.5
20...	0808	69.3	348	8.5	10.5	9.4
20...	0810	84.7	346	8.5	10.5	9.5
20...	0812	100	347	8.5	10.5	9.5
20...	0814	116	347	8.6	10.5	9.5
20...	0816	131	347	8.5	10.5	9.5
20...	0818	146	348	8.5	10.5	9.5

RIO GRANDE BASIN

08291000 SANTA CRUZ RIVER AT CUNDIYO, NM

LOCATION.--Lat 35°57'53", long 105°54'14", in SE1/4 sec.17, T.20 N., R.10 E., Santa Fe County, Hydrologic Unit 13020101, on left bank 135 ft downstream from bridge on State Highway 503, 200 ft downstream from confluence of Rio Medio and Rio Frijoles, 0.6 mi northwest of Cundiyo, 1.0 mi upstream from Santa Cruz Dam, and at mile 11.7.

DATE OF RECORD.--00 mi, approximately.

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only from some periods, published in WSP 1312. Prior to October 1953, published as Rio Santa Cruz at Cundiyo.

REVISED RECORDS.--WSP 1392: 1931(M), 1932-33, 1934-39(M), 1942, 1943(M).

GAGE.--Water-stage recorder. Concrete control since Jan. 3, 1954. Elevation of gage is 6,460 ft above National Geodetic Vertical Datum of 1929, from topographic map. Sept. 1, 1930 to Aug. 12, 1932, water-stage recorder at site about 1 mi downstream at different datum. Aug. 13, 1932 to Oct. 29, 1934, water-stage recorder at site 35 ft upstream at datum 0.42 ft higher. Oct. 30, 1934 to Jan. 2, 1954, water-stage recorder at present site at datum 0.64 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 1,000 acres upstream from station. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	18	e16	e12	e9.8	12	36	64	276	44	26	17
2	19	17	e15	e12	e9.8	13	38	62	257	42	18	15
3	18	16	e14	e12	e9.8	13	37	61	266	41	18	18
4	19	16	e14	e12	e10	14	38	63	252	35	15	23
5	19	16	e14	e11	e10	17	37	79	243	34	16	15
6	19	13	e14	e10	e11	18	34	104	236	33	17	15
7	20	24	e15	e10	e11	19	33	121	227	32	14	15
8	20	18	e15	e11	e11	19	31	113	200	30	13	14
9	19	19	e15	e11	e11	17	32	116	175	30	12	13
10	19	19	e14	e11	e11	17	30	120	163	29	12	12
11	18	18	e13	e11	11	18	33	118	156	27	15	13
12	18	17	14	e11	11	20	39	148	144	27	15	11
13	18	16	e12	e11	e11	20	51	209	124	26	13	22
14	18	16	e12	e12	e11	22	65	234	110	25	22	26
15	18	16	e12	e12	e11	27	74	228	101	24	24	19
16	17	15	e12	e12	e11	36	82	224	93	23	16	16
17	19	17	e13	e12	11	41	87	243	88	24	14	15
18	19	17	e14	e12	12	46	96	246	91	25	15	14
19	18	15	e14	e12	e12	53	103	306	99	25	14	14
20	18	17	e13	e12	12	56	104	316	94	23	18	13
21	17	17	e12	e12	e11	46	99	292	94	28	22	13
22	17	19	e11	e12	11	42	104	276	82	34	17	13
23	16	18	e11	e12	12	40	120	266	73	26	16	13
24	16	17	e11	e12	e12	38	116	255	66	21	17	12
25	16	16	e12	e12	e13	35	114	278	61	23	17	12
26	16	10	e13	e10	13	34	90	294	56	20	15	12
27	15	e11	e14	e10	13	30	75	286	52	24	17	11
28	15	e12	e14	e10	13	29	63	262	51	23	15	11
29	16	e14	e14	e10	---	29	60	257	48	23	14	11
30	13	e16	e13	e10	---	30	59	262	45	17	14	11
31	17	---	e12	e9.8	---	33	---	270	---	23	14	---
TOTAL	546	490	412	348.8	315.4	884	1980	6173	4023	861	505	439
MEAN	17.6	16.3	13.3	11.3	11.3	28.5	66.0	199	134	27.8	16.3	14.6
MAX	20	24	16	12	13	56	120	316	276	44	26	26
MIN	13	10	11	9.8	9.8	12	30	61	45	17	12	11
AC-FT	1080	972	817	692	626	1750	3930	12240	7980	1710	1000	871

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 1994, BY WATER YEAR (WY)

	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944
MEAN	15.6	12.2	10.4	9.43	10.0	19.7	52.3	99.5	76.1	28.3	25.7	19.6
MAX	61.3	43.4	25.2	19.5	18.6	51.1	205	329	293	115	109	78.6
(WY)	1942	1942	1987	1987	1987	1985	1942	1941	1979	1986	1991	1988
MIN	3.88	4.69	3.82	4.75	5.44	6.97	13.2	15.9	7.05	5.64	4.57	2.47
(WY)	1957	1957	1951	1951	1981	1981	1951	1950	1956	1956	1956	1956

SUMMARY STATISTICS FOR 1993 CALENDAR YEAR FOR 1994 WATER YEAR WATER YEARS 1933 - 1994

	1993	1994	1933-1994
ANNUAL TOTAL	16272	16977.2	
ANNUAL MEAN	44.6	46.5	31.6
HIGHEST ANNUAL MEAN			75.2
LOWEST ANNUAL MEAN			8.93
HIGHEST DAILY MEAN	300	May 29	623
LOWEST DAILY MEAN	10	Jan 4	1.1
ANNUAL SEVEN-DAY MINIMUM	12	Jan 1	2.2
INSTANTANEOUS PEAK FLOW			2420
INSTANTANEOUS PEAK STAGE			7.80
INSTANTANEOUS LOW FLOW			5.1
ANNUAL RUNOFF (AC-FT)	32280	33670	22920
10 PERCENT EXCEEDS	107	119	77
50 PERCENT EXCEEDS	25	18	15
90 PERCENT EXCEEDS	14	11	7.5

e Estimated

RIO GRANDE BASIN

08291600 RIO GRANDE AT SANTA CLARA, NM

WATER-QUALITY RECORDS

LOCATION.--Lat 36°03'41", long 106°04'34", Rio Arriba County, Hydrologic Unit 13020101, in Santa Clara Indian Reservation, at Santa Clara Pueblo, 1.0 mi south of Espanola.

PERIOD OF RECORD.--Water years 1987 to 1992, March 1993 to March 1994. (Discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREP-TOCOCCI, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	
NOV 1993													
30...	0915	1260	328	7.7	0.5	3.0	622	10.7	98	>20	29	120	
MAR 1994													
30...	0915	1760	310	7.5	6.5	7.0	632	10.3	103	K34	59	120	
DATE		HARD-NESS NONCARB DISSOLV FLD. AS CaCO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD HCO3 (MG/L AS) (00453)	CAR-BONATE WATER DIS IT FIELD CO3 (MG/L AS) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD CaCO3 (MG/L AS) (39086)	ALKA-LINITY LAB (MG/L AS CaCO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl) (00940)
NOV 1993													
30...	24	37	7.5	19	0.7	2.2	121	0	99	108	52	5.5	
MAR 1994													
30...	19	35	7.2	16	0.6	2.4	120	0	98	101	50	5.6	
DATE		FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
NOV 1993													
30...	0.40	21	204	2	2	30	<1	<1.0	2	<1	3	3	
MAR 1994													
30...	0.30	19	195	--	--	30	--	--	--	--	--	--	
DATE		IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 1993													
30...	17	<1	<1	<0.10	<0.1	<1	<1	<1	10	4	46	156	78
MAR 1994													
30...	57	--	--	--	--	--	--	--	--	--	185	879	33

RIO GRANDE BASIN

08292000 SANTA CLARA CREEK NEAR ESPANOLA, NM

LOCATION.--Lat 35°58'40", long 106°10'20", in SW¼SW¼ sec.11, T.20 N., R.7 E., Rio Arriba County, Hydrologic Unit 13020101, in Santa Clara Indian Reservation, on right bank 5.5 mi upstream from mouth, and 5.5 mi southwest of Espanola.

PERIOD OF RECORD.--February 1936 to September 1941, August 1949 to October 1950, October 1950 to September 1961 (annual maximum only), April 1984 to September 1994 (discontinued).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,120 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Several observations of water temperature were made during year. Two small diversions upstream from station for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.4	3.0	4.2	e1.7	3.3	.61	5.1	4.9	1.9	2.5	4.0
2	2.8	3.3	3.6	3.2	e1.7	3.3	.60	4.7	4.8	1.9	2.8	3.9
3	2.8	3.5	4.0	3.7	e1.8	3.5	.60	4.5	4.6	1.9	2.3	3.5
4	2.8	3.3	3.5	2.4	e1.9	3.6	.61	4.3	4.4	1.8	2.1	3.5
5	2.9	3.3	4.3	2.5	2.4	3.7	.59	4.2	4.3	1.8	2.4	3.1
6	2.9	3.5	3.9	2.0	2.6	3.5	.58	4.1	4.2	1.7	2.8	3.2
7	3.4	4.7	4.0	e3.4	2.3	3.9	.58	4.1	4.0	1.7	2.3	4.1
8	3.4	3.8	4.8	e3.1	2.1	4.8	.58	4.4	3.5	1.7	2.1	3.3
9	3.3	3.1	3.9	e3.5	1.9	4.0	.63	4.5	3.5	1.7	2.3	3.3
10	3.2	3.3	3.1	4.1	1.9	2.2	.62	4.9	3.5	1.8	2.3	3.2
11	3.2	3.2	3.0	4.1	1.8	.09	.62	5.8	3.5	1.9	2.4	3.0
12	3.2	3.5	2.9	4.6	1.7	.09	.56	4.9	3.4	1.9	2.6	3.0
13	3.2	3.2	2.9	4.9	2.6	.34	.56	6.1	3.3	1.9	2.3	3.9
14	3.2	3.3	2.2	4.3	3.4	.57	.56	5.1	3.2	2.0	2.6	3.9
15	3.2	3.1	5.2	4.2	3.2	.63	.56	6.4	3.2	2.0	3.5	3.4
16	3.2	3.1	5.6	4.2	3.2	.75	.55	5.8	3.1	1.9	2.8	3.2
17	3.4	3.2	4.1	3.7	2.6	.99	1.5	5.2	3.1	2.2	2.5	3.5
18	3.5	3.3	4.5	3.4	3.1	1.0	2.9	5.3	3.1	2.3	2.9	3.4
19	3.2	3.3	4.4	3.6	3.0	1.1	2.9	5.4	3.2	2.2	2.7	3.3
20	2.9	3.4	3.3	3.5	2.9	1.1	3.1	5.3	3.3	2.3	2.5	3.4
21	.79	3.9	3.9	3.6	2.9	.99	3.4	5.4	4.3	2.7	3.3	3.5
22	.72	3.1	e3.5	3.4	3.0	.96	4.2	5.3	4.0	2.5	3.0	3.5
23	1.2	4.0	e3.2	3.4	3.8	.90	4.6	5.3	2.8	2.5	2.3	3.4
24	3.2	e4.0	e3.3	2.4	4.3	.90	4.4	5.2	2.4	2.5	3.3	3.4
25	3.2	e3.7	e3.4	2.5	3.7	.88	4.4	6.6	2.1	2.6	3.8	3.4
26	3.2	e2.8	e3.5	2.2	3.4	.89	4.5	5.8	2.0	2.6	2.4	3.4
27	3.3	e2.9	e3.5	2.1	3.5	1.0	4.7	6.4	1.9	2.9	2.1	3.3
28	3.4	e2.9	e3.6	2.0	3.4	1.2	4.4	5.8	1.8	2.9	2.3	3.4
29	3.4	e3.0	4.2	2.2	---	.78	4.8	5.3	1.9	2.7	2.4	3.4
30	3.6	e3.0	4.2	2.3	---	.66	4.6	5.2	1.9	2.6	2.1	3.4
31	3.8	---	4.6	1.7	---	.63	---	5.0	---	2.3	8.3	---
TOTAL	92.51	101.1	117.1	100.4	75.8	52.25	63.81	161.4	99.2	67.3	86.0	103.2
MEAN	2.98	3.37	3.78	3.24	2.71	1.69	2.13	5.21	3.31	2.17	2.77	3.44
MAX	3.8	4.7	5.6	4.9	4.3	4.8	4.8	6.6	4.9	2.9	8.3	4.1
MIN	.72	2.8	2.2	1.7	1.7	.09	.55	4.1	1.8	1.7	2.1	3.0
AC-FT	183	201	232	199	150	104	127	320	197	133	171	205

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1994, BY WATER YEAR (WY)

	MEAN	3.38	3.63	3.52	3.33	3.72	4.16	5.80	7.79	4.30	3.56	3.53	3.74
MAX	4.79	6.61	4.50	4.35	4.93	5.87	13.2	27.8	16.3	6.02	6.53	7.25	
(WY)	1939	1987	1937	1937	1988	1987	1987	1941	1941	1941	1991	1991	
MIN	1.68	.70	1.87	1.77	2.71	1.69	2.13	2.98	1.58	2.08	1.74	1.98	
(WY)	1991	1990	1991	1991	1994	1994	1994	1989	1990	1993	1984	1992	

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1937 - 1994
ANNUAL TOTAL	1442.06	1120.07	
ANNUAL MEAN	3.95	3.07	4.25
HIGHEST ANNUAL MEAN			7.74
LOWEST ANNUAL MEAN			2.91
HIGHEST DAILY MEAN	9.7 Aug 27	8.3 Aug 31	42 Sep 22 1941
LOWEST DAILY MEAN	.32 Mar 28	.09 Mar 11	.00 Aug 8 1984
ANNUAL SEVEN-DAY MINIMUM	1.6 Mar 22	.49 Mar 11	.11 Nov 9 1989
INSTANTANEOUS PEAK FLOW		178 Aug 31	970 Sep 22 1941
INSTANTANEOUS PEAK STAGE		3.52 Aug 31	5.65 Sep 22 1941
INSTANTANEOUS LOW FLOW		.07 Mar 11	.00 Aug 13 1984
ANNUAL RUNOFF (AC-FT)	2860	2220	3080
10 PERCENT EXCEEDS	8.1	4.6	6.0
50 PERCENT EXCEEDS	3.3	3.2	3.6
90 PERCENT EXCEEDS	2.0	1.1	2.1

e Estimated

RIO GRANDE BASIN

08294200 NAMBE FALLS RESERVOIR NEAR NAMBE, NM

LOCATION.--Lat 35°50'46", long 105°54'17", in NE¼SW¼, sec.29, T.19 N., R.10 E., Santa Fe County, Hydrologic Unit 13020101, on Nambé Indian Reservation, 300 ft upstream from Nambé Falls, 2.6 mi upstream from Rio En Medio, 4.4 mi southeast of Nambé Pueblo, and 5.4 mi southeast of Nambé.

DRAINAGE AREA.--34.1 mi².

PERIOD OF RECORD.--February 1976 to current year.

REVISED RECORDS.--WDR NM-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). Prior to July 22, 1976, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by a concrete arch and earthfill dam, storage began Feb. 23, 1976. Total capacity, 2,020 acre-ft at elevation 6,826.6 ft, crest of ogee weir spillway, including 237 acre-ft of storage in a permanent pool between elevation 6,760.9 ft, invert of outlet conduits, and 6,780.0 ft. Dead storage 121 acre-ft below elevation 6,760.9 ft. Outlet conduits are one 6-in and two 12-in diameter pipes. Reservoir is used for storage of irrigation water and for recreation. Figures given herein represent total storage.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,060 acre-ft June 9, 1979, elevation, 6,827.24 ft; no storage prior to Feb. 23, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,040 acre-ft, elevation 6,826.96 many days; minimum, 990 acre-ft, Aug. 10, 11 elevation 6,804.55 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

(Based on survey by U.S. Bureau of Reclamation in 1976)

6,801	870	6,820	1,660
6,810	1,201	6,825	1,930
6,815	1,420	6,830	2,230

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1980	1560	1620	1710	1840	2010	1810	1800	2040	2010	1200	1230
2	1970	1560	1630	1710	1850	2010	1810	1780	2040	2000	1190	1230
3	1960	1550	1630	1710	1850	2020	1790	1760	2040	1970	1170	1250
4	1940	1550	1630	1710	1860	2020	1770	1740	2040	1950	1150	1260
5	1920	1540	1640	1710	1860	2020	1760	1730	2040	1930	1130	1280
6	1900	1540	1640	1710	1870	2020	1750	1730	2040	1910	1100	1290
7	1880	1530	1640	1710	1880	2020	1710	1730	2040	1870	1080	1300
8	1870	1520	1650	1710	1890	2020	1700	1730	2040	1830	1040	1310
9	1850	1530	1650	1710	1890	2020	1680	1740	2030	1790	1010	1320
10	1830	1530	1650	1710	1900	2020	1660	1750	2040	1760	990	1330
11	1800	1530	1660	1710	1900	2020	1640	1750	2040	1710	990	1340
12	1780	1540	1660	1720	1910	2020	1620	1770	2030	1690	1000	1350
13	1760	1540	1670	1730	1910	2000	1610	1790	2030	1660	1000	1370
14	1730	1550	1670	1730	1920	1980	1600	1830	2030	1640	1010	1390
15	1720	1560	1670	1740	1920	1970	1600	1870	2030	1620	1040	1400
16	1690	1560	1680	1740	1930	1960	1600	1950	2030	1600	1050	1410
17	1690	1570	1680	1750	1940	1950	1610	1980	2030	1570	1060	1420
18	1680	1570	1680	1760	1940	1940	1640	1990	2030	1530	1070	1430
19	1680	1580	1680	1760	1950	1930	1660	2030	2030	1500	1070	1440
20	1670	1580	1690	1770	1950	1930	1630	2040	2030	1480	1070	1450
21	1660	1580	1690	1770	1960	1910	1720	2040	2030	1470	1060	1460
22	1650	1590	1690	1780	1970	1910	1740	2040	2030	1450	1080	1470
23	1640	1600	1690	1780	1980	1900	1770	2040	2030	1400	1090	1470
24	1640	1600	1700	1790	1980	1900	1810	2040	2030	1360	1090	1470
25	1620	1600	1700	1800	1990	1890	1860	2040	2030	1360	1100	1480
26	1610	1600	1700	1800	1990	1880	1860	2040	2030	1340	1110	1480
27	1610	1600	1700	1810	2000	1880	1870	2040	2030	1330	1120	1480
28	1590	1600	1700	1820	2000	1850	1870	2040	2030	1310	1120	1480
29	1590	1610	1700	1820	---	1840	1860	2040	2030	1300	1140	1480
30	1580	1620	1700	1830	---	1840	1840	2040	2030	1280	1140	1480
31	1570	---	1700	1840	---	1830	---	2040	---	1260	1150	---
MAX	1980	1620	1700	1840	2000	2020	1870	2040	2040	2010	1200	1480
MIN	1570	1520	1620	1710	1840	1830	1600	1730	2030	1260	990	1230
(†)	6818.16	6819.18	6820.76	6823.38	6826.22	6823.20	6823.38	6826.90	6826.72	6811.38	6808.78	6816.28
(††)	-430	+50	+80	+140	+160	-170	+10	+200	-10	-770	-110	+330

CAL YR 1993 MAX 2040 MIN 1510 (††) +50
WTR YR 1994 MAX 2040 MIN 990 (††) -520

(†) ELEVATION, IN FEET, AT END OF MONTH
(††) CHANGE IN CONTENTS, IN ACRE-FEET

RIO GRANDE BASIN

08294210 RIO NAMBE BELOW NAMBE FALLS DAM, NEAR NAMBE, NM

LOCATION.--Lat 35°50'46", long 105°54'17", in NEKSW sec.29, T.19 N., R.10 E., Santa Fe County, Hydrologic Unit 13020101, on Nambé Indian Reservation, in outlet conduits of Nambé Falls Dam, 300 ft upstream from Nambé Falls, 2.5 mi upstream from Rio Grande, 4.4 mi downstream of Nambé Falls, and 5.4 mi downstream of Nambé Falls.

PERIOD OF RECORD.--January 1979 to current year.

GAGE.--Totalizing flowmeters in each of three outlet conduits in Nambé Falls Dam.

REMARKS.--Flow regulated by Nambé Falls Reservoir (station 08294200). Outlet conduits are one 6-in. and two 12-in. diameter pipes. During periods of spill at Nambé Falls Dam, record computed at site 1,100 ft downstream, site of discontinued station 08294300, Rio Nambé at Nambé Falls.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 312 ft³/s June 9, 1979, gage height, 1.96 ft at site 1,100 ft downstream (maximum release and spill computed at Nambé Falls Dam, 250 ft³/s, June 9, 1979); minimum daily discharge, 0.13 ft³/s May 3, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 109 ft³/s, June 4; minimum daily, 0 ft³/s, Dec. 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	7.1	.80	3.5	.50	.50	19	30	101	31	20	.50
2	14	7.0	.80	3.5	.50	.50	19	30	106	30	20	.50
3	14	7.0	.80	3.5	.50	1.5	19	30	106	30	20	.50
4	13	7.0	.80	3.5	.50	2.0	19	30	109	30	20	.50
5	15	6.9	.62	3.5	.50	2.0	19	30	106	30	20	.50
6	17	7.0	.80	3.5	.50	3.5	19	30	101	30	20	.50
7	17	7.0	.80	3.5	.50	3.5	19	30	93	37	20	.50
8	17	4.9	.80	3.5	.50	3.5	19	30	89	37	20	.50
9	17	3.6	.80	3.5	.50	3.5	19	30	79	32	20	.50
10	17	3.5	.80	2.0	.50	3.5	19	30	72	32	20	.50
11	17	3.6	.80	.50	.50	3.5	19	30	67	30	.50	.50
12	17	1.8	.80	.50	.50	7.6	20	30	63	27	.50	.50
13	17	.90	1.8	.50	.50	12	20	30	61	26	.50	.50
14	17	.90	2.5	.50	.50	12	12	30	60	25	.50	.50
15	17	.90	2.5	.50	.50	12	12	30	56	25	.50	.50
16	14	.90	2.5	.50	.50	12	12	36	53	25	.50	.50
17	10	.90	2.5	.50	.50	12	12	42	48	25	.50	.50
18	10	.90	2.5	.50	.50	12	12	42	61	25	.50	.50
19	10	.90	2.5	.50	.50	12	12	70	63	25	7.0	.50
20	10	.90	3.5	.50	.50	12	12	85	61	25	14	.50
21	10	.80	3.5	.50	.50	12	12	85	65	25	.50	.50
22	10	.80	3.5	.50	.50	12	12	85	58	25	.50	.50
23	10	.80	3.5	.50	.50	12	12	85	56	20	.50	5.0
24	10	.80	3.5	.50	.50	12	12	85	50	20	.50	4.0
25	10	.80	3.5	.50	.50	12	17	88	47	20	.50	4.0
26	10	.80	3.5	.50	.50	12	21	89	48	20	.50	4.0
27	10	.80	3.5	.50	.50	12	21	89	56	18	.50	4.0
28	10	.80	3.5	.50	.50	12	26	87	50	20	.50	4.0
29	10	.80	3.5	.50	---	12	30	87	45	20	.50	4.0
30	11	.80	3.5	.50	---	12	30	89	45	20	.50	4.0
31	8.5	---	.00	.50	---	16	---	87	---	20	.50	---
TOTAL	403.5	81.60	64.90	44.00	14.00	267.10	526	1681	2075	805	230.50	44.00
MEAN	13.0	2.72	2.09	1.42	.50	8.62	17.5	54.2	69.2	26.0	7.44	1.47
MAX	17	7.1	3.5	3.5	.50	16	30	89	109	37	20	5.0
MIN	8.5	.80	.00	.50	.50	.50	12	30	45	18	.50	.50
AC-FT	800	162	129	87	28	530	1040	3330	4120	1600	457	87

CAL YR 1993 TOTAL 6069.10 MEAN 16.6 MAX 104 MIN .00 AC-FT 12040
WTR YR 1994 TOTAL 6236.60 MEAN 17.1 MAX 109 MIN .00 AC-FT 12370

RIO GRANDE BASIN

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947 to current year

PERIOD OF DAILY RECORDS --

SPECIFIC CONDUCTANCE: October 1946 to current year.
 WATER TEMPERATURE: October 1948 to September 1993, (discontinued).
 SUSPENDED-SEDIMENT DISCHARGE: October 1947 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,310 microsiemens, Aug. 5, 1963; minimum daily, 88 microsiemens, May 12, 1984.
 WATER TEMPERATURE: Maximum, 31.0 °C, Aug. 4, 5, 1954; minimum, 0.0 °C on many days during winter periods each year.
 SEDIMENT CONCENTRATION: Maximum daily mean, 43,500 mg/L, Aug. 21, 1955; minimum daily mean, 11 mg/L, July 27, 1963 and Feb. 7, 1974.
 SEDIMENT LOAD: Maximum daily, 366,000 tons, Aug. 23, 1961; minimum daily, 3 tons, July 27, 1963.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 509 microsiemens, Nov. 5; minimum daily, 210 microsiemens, May 10.
 SEDIMENT CONCENTRATION: Maximum daily mean, 36,300 mg/L, Sept. 1; minimum daily mean, 55 mg/L, June 19.
 SEDIMENT LOAD: Maximum daily, 155,000 tons, Sept. 1; minimum daily, 139 tons, Oct. 24.

REMARKS.--Once daily water temperature readings were made by the field observer, and once-daily specific conductance values were determined in the laboratory from daily suspended sediment samples collected by the field observer.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
OCT 1993										
19...	0930	725	339	8.1	15.5	11.0	--	623	8.3	92
NOV										
18...	1000	1260	335	8.4	--	5.0	5.4	626	10.5	96
DEC										
14...	0930	1460	310	8.3	-1.0	2.0	--	625	10.7	95
JAN 1994										
13...	1130	850	304	8.0	7.5	1.0	2.0	--	--	9
FEB										
23...	0815	919	311	8.3	-0.5	3.0	--	624	10.2	93
MAR										
22...	0930	1980	275	8.2	13.0	9.0	40	620	8.6	92
APR										
21...	0830	4280	243	8.2	--	10.0	--	625	8.8	95
MAY										
23...	1345	7400	220	7.6	26.0	14.5	67	---	---	K53
JUN										
08...	1000	5220	221	8.1	27.5	14.5	--	624	8.1	97
JUL										
19...	1030	1520	295	8.1	22.0	16.5	47	625	7.7	97
AUG										
09...	0915	750	298	8.4	21.5	18.5	--	630	7.5	97
SEP										
07...	0830	790	350	8.1	15.5	17.5	--	630	7.1	90

RIO GRANDE BASIN

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
OCT 1993											
19...	--	130	8	38	7.5	20	0.8	2.1	144	0	118
NOV											
18...	47	130	23	38	7.5	20	0.8	2.6	124	1	103
DEC											
14...	--	110	5	34	6.8	18	0.7	2.1	126	3	108
JAN 1994											
13...	9	110	0	34	6.5	21	0.9	2.6	152	0	124
FEB											
23...	--	120	6	35	6.8	21	0.9	2.9	133	0	109
MAR											
22...	110	100	17	32	6.0	16	0.7	2.6	107	0	88
APR											
21...	--	96	22	29	5.8	11	0.5	1.8	91	0	74
MAY											
23...	250	82	12	25	4.7	9.6	0.5	1.7	85	0	70
JUN											
08...	--	85	19	26	4.9	11	0.5	2.1	81	0	66
JUL											
19...	310	110	30	34	6.7	14	0.6	1.9	101	0	83
AUG											
09...	--	120	25	35	6.8	16	0.6	1.8	110	0	90
SEP											
07...	--	140	22	43	7.6	20	0.7	2.6	142	0	116

DATE	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT 1993											
19...	116	53	5.7	0.40	17	218	215	--	<0.010	<0.050	0.030
NOV											
18...	117	53	5.8	0.30	18	219	208	--	<0.010	0.057	<0.010
DEC											
14...	105	48	5.2	0.30	21	205	201	--	<0.010	0.160	<0.010
JAN 1994											
13...	114	38	6.7	0.40	25	189	210	--	<0.010	0.280	0.020
FEB											
23...	113	40	6.8	0.40	24	207	203	--	<0.010	0.200	0.020
MAR											
22...	94	40	5.1	0.30	17	177	173	--	<0.010	0.120	0.020
APR											
21...	80	39	3.2	0.20	16	159	151	0.044	0.010	0.054	0.020
MAY											
23...	78	29	2.6	0.20	14	142	130	--	<0.010	0.077	0.010
JUN											
08...	76	34	2.6	0.20	15	148	136	--	<0.010	<0.050	0.020
JUL											
19...	90	52	3.3	0.20	15	184	178	--	<0.010	0.078	0.020
AUG											
09...	93	50	3.7	0.30	15	190	183	--	<0.010	<0.050	0.020
SEP											
07...	119	50	6.2	0.50	19	210	219	--	--	--	--

RIO GRANDE BASIN

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CYANIDE TOTAL (MG/L AS CN) (00720)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BORON, DIS- SOLVED (UG/L AS B) (01020)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)
OCT 1993											
19...	--	<0.20	<0.20	0.010	<0.010	<0.010	--	--	--	--	--
NOV 18...	--	<0.20	--	0.020	<0.010	<0.010	<0.010	<10	55	50	<3
DEC 14...	--	<0.20	<0.20	<0.010	<0.010	<0.010	--	--	--	--	--
JAN 1994											
13...	--	<0.20	--	0.040	0.020	0.030	--	--	--	--	--
FEB 23...	--	<0.20	<0.20	0.040	0.030	0.020	--	--	--	--	--
MAR 22...	--	1.7	--	0.120	0.020	0.020	--	10	46	--	<3
APR 21...	0.18	0.30	0.20	0.050	0.030	0.020	--	--	--	--	--
MAY 23...	--	0.50	--	0.210	0.050	<0.010	<0.010	210	36	30	<3
JUN 08...	0.18	0.40	0.20	0.080	0.040	0.010	--	--	--	--	--
JUL 19...	--	0.40	--	0.100	0.020	<0.010	<0.010	50	51	40	<3
AUG 09...	--	0.30	<0.20	0.100	0.010	<0.010	--	--	--	--	--
SEP 07...	--	--	--	--	--	--	<0.010	--	--	40	--

DATE	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	NITRO- GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)
OCT 1993										
19...	5	--	6	--	--	--	--	--	--	--
NOV 18...	7	15	6	<10	<1	<1	<1.0	310	<6	2.0
DEC 14...	12	--	6	--	--	--	--	--	--	--
JAN 1994										
13...	9	--	13	--	--	--	--	--	--	--
FEB 23...	11	--	11	--	--	--	--	--	--	--
MAR 22...	9	12	5	<10	1	<1	<1.0	240	<6	--
APR 21...	83	--	7	--	--	--	--	--	--	--
MAY 23...	100	6	10	<10	<1	<1	<1.0	170	<6	--
JUN 08...	81	--	7	--	--	--	--	--	--	--
JUL 19...	37	10	5	<10	<1	<1	<1.0	250	<6	--
AUG 09...	22	--	5	--	--	--	--	--	--	--
SEP 07...	8	--	4	4	--	--	--	--	--	--

RIO GRANDE BASIN

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	NITRO- GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOS- PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD) (01028)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB) (01052)
OCT 1993										
19...	--	--	--	--	--	--	--	--	--	--
NOV										
18...	0.6	30	310	2	<1	4	<5	2	3600	<10
DEC										
14...	--	--	--	--	--	--	--	--	--	--
JAN 1994										
13...	--	--	--	--	--	--	--	--	--	--
FEB										
23...	--	--	--	--	--	--	--	--	--	--
MAR										
22...	--	--	--	--	--	--	--	--	--	--
APR										
21...	--	--	--	--	--	--	--	--	--	--
MAY										
23...	--	--	--	--	--	--	--	--	--	--
JUN										
08...	--	--	--	--	--	--	--	--	--	--
JUL										
19...	--	--	--	--	--	--	--	--	--	--
AUG										
09...	--	--	--	--	--	--	--	--	--	--
SEP										
07...	--	--	--	--	--	--	--	--	--	--

DATE	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN) (01093)	RADIUM 226, DIS- SOLVED, RADON, METHOD (PCI/L) (09511)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 1993										
19...	--	--	--	--	--	--	--	141	276	58
NOV										
18...	110	<0.10	9	0.09	0.020	2.7	<1.0	120	408	35
DEC										
14...	--	--	--	--	--	--	--	143	564	19
JAN 1994										
13...	--	--	--	--	--	--	--	72	165	--
FEB										
23...	--	--	--	--	--	--	--	73	181	31
MAR										
22...	--	--	--	--	--	--	--	417	2230	34
APR										
21...	--	--	--	--	--	--	--	893	10300	21
MAY										
23...	--	--	--	0.05	0.020	1.2	<1.0	524	10500	46
JUN										
08...	--	--	--	--	--	--	--	381	5370	28
JUL										
19...	--	--	--	--	--	--	--	118	484	81
AUG										
09...	--	--	--	--	--	--	--	150	304	90
SEP										
07...	--	--	--	--	--	--	--	702	1500	38

RIO GRANDE BASIN

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

CROSS SECTION ANALYSES

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
NOV 1993						
18...	0911	95.0	333	8.5	5.5	10.5
18...	0912	85.0	334	8.4	5.0	10.4
18...	0913	75.0	335	8.4	5.0	10.5
18...	0914	65.0	333	8.4	5.0	10.5
18...	0915	55.0	334	8.4	5.0	10.6
18...	0916	45.0	335	8.4	5.0	10.6
18...	0917	35.0	335	8.4	5.0	10.6
18...	0918	25.0	337	8.4	5.0	10.4
18...	0919	15.0	336	8.4	5.5	10.6
18...	0920	5.00	334	8.4	5.0	10.4

RIO GRANDE BASIN

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, NM -- Continued

WATER-QUALITY RECORDS
 SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
 DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	344	368	323	326	319	299	307	271	272	---	324	323
2	344	349	325	324	---	300	305	275	270	---	314	343
3	347	345	330	323	310	298	---	279	263	313	315	341
4	348	348	323	320	320	299	307	278	238	---	313	331
5	331	509	316	331	324	303	305	268	226	318	308	349
6	324	340	315	325	330	306	305	248	227	325	302	349
7	325	335	311	325	333	311	308	228	235	342	303	353
8	333	329	310	320	328	301	312	224	232	340	302	342
9	343	328	308	321	321	320	306	215	235	329	305	331
10	343	327	312	327	323	323	307	210	246	325	302	334
11	332	335	310	326	317	317	309	222	251	---	---	337
12	324	334	308	317	319	316	315	225	258	328	297	324
13	335	337	309	322	320	315	309	224	263	324	298	316
14	338	338	311	325	317	324	298	217	265	323	295	314
15	349	339	307	318	321	330	290	212	268	314	376	325
16	339	337	312	320	322	316	289	219	271	---	323	331
17	332	343	311	319	333	312	287	220	264	---	342	327
18	326	341	312	316	331	299	282	217	265	307	371	327
19	345	339	313	327	308	283	272	220	289	311	326	328
20	357	336	316	321	325	277	253	225	268	---	304	321
21	341	335	312	320	330	269	249	216	265	---	311	323
22	353	331	310	325	328	276	240	227	273	---	308	329
23	359	332	314	324	326	274	237	217	281	---	316	330
24	361	329	325	320	326	278	235	221	265	---	315	330
25	368	330	340	325	331	284	214	218	264	---	332	328
26	371	323	---	317	329	294	228	220	---	---	336	329
27	354	326	334	316	304	291	234	242	250	---	320	324
28	357	328	336	317	289	300	243	241	257	---	312	323
29	361	330	335	313	---	309	255	260	265	331	312	321
30	362	324	336	318	---	310	265	259	---	340	314	322
31	363	---	329	310	---	307	---	274	---	329	310	---
MEAN	345	341	---	321	---	301	---	235	---	---	---	330
MAX	371	509	---	331	---	330	---	279	---	---	---	353
MIN	324	323	---	310	---	269	---	210	---	---	---	314

RIO GRANDE BASIN

08313042 LOS ALAMOS CANYON NEAR LOS ALAMOS, NM

LOCATION.--Lat 35°52'01", long 106°13'21", in SW¼ sec.20, T.19 N., R.7 E., Santa Fe County, Hydrologic Unit 13020201, on right bank 2.7 mi northwest of White Rock, 3.9 mi east of Los Alamos, and 13.5 mi southwest of Espanola.

DRAINAGE AREA.--9.08 mi².

PERIOD OF RECORD.--November 1970 to June 1971, October 1991 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,380 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair. No diversion above station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	1.5	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00
MAX	.00	.00	.00	.00	.00	.00	.00	1.5	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	3.1	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1994, BY WATER YEAR (WY)

	1992	1992	1992	1992	1992	1993	1992	1993	1992	1993	1993	1992
MAX	.000	.074	.000	.000	.000	1.08	5.69	1.77	.64	.14	.35	.10
(WY)	1992	1992	1992	1992	1992	1993	1992	1993	1992	1993	1993	1992
MIN	.000	.000	.000	.000	.000	.000	.000	.050	.000	.000	.000	.000
(WY)	1992	1993	1992	1992	1992	1994	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1994 WATER YEAR

WATER YEARS 1992 - 1994

ANNUAL TOTAL	1.55		
HIGHEST ANNUAL MEAN		.68	1992
LOWEST ANNUAL MEAN		.004	1994
HIGHEST DAILY MEAN	1.5	May 25	13
LOWEST DAILY MEAN	.00	Oct 1	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 1	.00
INSTANTANEOUS PEAK FLOW	30	May 25	137
INSTANTANEOUS PEAK STAGE	2.04	May 25	2.78
INSTANTANEOUS LOW FLOW	.00	Oct 1	.00
ANNUAL RUNOFF (AC-FT)	3.1		309
10 PERCENT EXCEEDS	.00		1.5
50 PERCENT EXCEEDS	.00		.00
90 PERCENT EXCEEDS	.00		.00

RIO GRANDE BASIN

08313060 PUEBLO CANYON NEAR LOS ALAMOS, NM

LOCATION.--Lat 35°52'13", long 106°12'56", in NE¼ sec.20, T.19 N., R.7 E., Santa Fe County, Hydrologic Unit 13020201, on right bank at State Highway maintenance yard 200 ft north of State Hwy 502, and 4.2 mi east of Los Alamos.

DRAINAGE AREA.--0.74 mi².

PERIOD OF RECORD.--January 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,330 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversion above station. Several observations of water temperature were made during year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.3	1.2	e1.0	e.90	e1.2	.92	1.1	.57	.38	1.5	1.5
2	1.3	1.0	1.3	e1.0	e.90	e1.3	1.1	1.2	.40	.38	1.5	1.4
3	1.3	1.1	1.2	e1.0	e.90	e1.3	1.2	.96	.51	.36	1.5	1.4
4	1.4	1.4	1.1	e1.0	e1.0	e1.4	.93	1.1	.56	.34	1.3	1.4
5	1.3	1.3	1.3	e1.0	e1.0	e1.5	.94	1.2	.59	.30	1.4	1.8
6	1.3	1.2	1.3	e1.0	e1.1	e1.5	.90	.79	.47	.10	1.1	1.8
7	1.8	1.3	1.4	e1.0	e1.1	e1.5	1.0	.94	.29	.03	.86	1.5
8	1.8	1.4	1.3	e1.0	e1.2	e1.7	1.1	1.0	.13	.30	1.1	1.5
9	2.1	1.4	1.0	e1.0	e1.2	e1.7	1.2	.78	.18	.39	.96	1.3
10	1.6	1.2	1.0	e1.0	e1.2	e1.8	1.2	.81	.38	.37	.85	1.5
11	1.8	1.2	.99	e1.0	e1.2	e1.8	1.3	.81	.41	.42	.72	1.5
12	1.6	1.3	1.1	e1.0	e1.2	2.0	1.2	.69	.35	.52	1.1	1.4
13	1.3	1.3	1.1	e1.0	e1.1	1.5	1.1	.99	.36	.46	.98	1.1
14	1.2	1.8	1.3	e1.1	e1.1	1.3	1.1	.93	.18	.22	.94	1.5
15	1.1	1.4	1.3	e1.1	e1.1	1.2	1.2	.96	.27	.25	1.4	1.6
16	1.7	1.2	1.4	e1.1	e1.1	1.2	1.2	1.0	.12	.37	1.4	1.1
17	1.7	1.1	1.2	e1.1	e1.2	1.2	1.3	.86	.23	.27	1.5	1.3
18	1.8	1.3	1.1	e1.1	e1.2	1.2	1.2	.85	.33	.80	1.1	1.1
19	1.5	1.2	.98	e1.1	e1.2	1.1	.88	.61	.37	.44	1.0	1.7
20	1.4	1.2	1.0	e1.1	e1.1	1.1	.67	.72	.44	.76	1.0	1.4
21	1.4	1.1	1.3	e1.1	e1.1	1.1	1.0	.48	.72	1.0	1.5	1.3
22	1.0	1.1	1.1	e1.1	e1.0	.89	1.2	.41	.81	1.1	1.5	1.4
23	1.4	1.2	1.1	e1.1	e1.0	.98	1.1	.75	.85	1.0	1.3	1.4
24	1.6	1.1	1.4	e1.1	e1.0	.79	1.1	.53	.59	.86	1.5	1.3
25	1.2	1.0	1.2	e1.1	e1.1	1.1	1.1	1.0	.65	1.3	1.6	1.2
26	.94	1.1	1.2	e1.1	e1.1	1.1	.93	.97	.21	1.3	1.2	1.3
27	.78	1.2	.91	e1.1	e1.1	1.1	1.0	.90	.30	1.5	1.2	.84
28	.95	1.2	.89	e1.1	e1.1	1.1	1.0	.87	.20	1.3	1.1	.74
29	1.2	1.2	.97	e1.1	---	1.2	1.1	.73	.10	1.4	1.2	.95
30	1.8	1.3	1.0	e1.1	---	1.1	1.1	.83	.34	1.4	1.3	1.1
31	1.3	---	e1.0	e1.0	---	.71	---	.53	---	1.3	1.5	---
TOTAL	43.87	37.1	35.64	32.7	30.50	39.67	32.27	26.30	11.91	20.92	38.11	40.33
MEAN	1.42	1.24	1.15	1.05	1.09	1.28	1.08	.85	.40	.67	1.23	1.34
MAX	2.1	1.8	1.4	1.1	1.2	2.0	1.3	1.2	.85	1.5	1.6	1.8
MIN	.78	1.0	.89	1.0	.90	.71	.67	.41	.10	.03	.72	.74
AC-FT	87	74	71	65	60	79	64	52	24	41	76	80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1994, BY WATER YEAR (WY)

	MEAN	.86	.96	1.06	1.20	1.14	.99	.72	.65	.43	.59	1.00	1.21
MAX	1.42	1.24	1.15	1.36	1.30	1.28	1.08	.85	.50	.67	1.23	1.79	
(WY)	1994	1994	1994	1992	1992	1994	1994	1994	1993	1994	1994	1993	
MIN	.30	.69	.97	1.05	1.02	.77	.43	.42	.39	.48	.72	.50	
(WY)	1993	1993	1993	1994	1993	1993	1992	1992	1992	1993	1992	1992	

SUMMARY STATISTICS FOR 1993 CALENDAR YEAR FOR 1994 WATER YEAR WATER YEARS 1992 - 1994

ANNUAL TOTAL	363.07	389.32	
ANNUAL MEAN	.99	1.07	.95
HIGHEST ANNUAL MEAN			1.07 1994
LOWEST ANNUAL MEAN			.84 1993
HIGHEST DAILY MEAN	2.5 Sep 21	2.1 Oct 9	2.5 Sep 21 1993
LOWEST DAILY MEAN	.02 Jul 9	.03 Jul 7	.02 Jul 9 1993
ANNUAL SEVEN-DAY MINIMUM	.24 Jul 8	.26 Jul 2	.24 Jul 8 1993
INSTANTANEOUS PEAK FLOW		4.6 Sep 5	6.3 Aug 26 1992
INSTANTANEOUS PEAK STAGE		5.79 Sep 5	5.91 Aug 26 1992
INSTANTANEOUS LOW FLOW		.03 Jul 7	.03 Jul 7 1994
ANNUAL RUNOFF (AC-FT)	720	772	691
10 PERCENT EXCEEDS	1.6	1.5	1.5
50 PERCENT EXCEEDS	.99	1.1	.90
90 PERCENT EXCEEDS	.42	.44	.33

e Estimated

RIO GRANDE BASIN

08313350 RITO DE LOS FRIJoles IN BANDELIER NATIONAL MONUMENT, NM

LOCATION.--Lat 35°46'35", long 106°16'06", Sandoval County, Hydrologic Unit 13020201, in Bandelier National Monument, on right bank 800 ft downstream from Monument headquarters, 6.5 mi south of Los Alamos, 18.5 mi northwest of Santa Fe, and at mile 2.0.

DRAINAGE AREA.--18.1 mi².

PERIOD OF RECORD.--July 1963 to September 1969, July 1977 to September 1982, May 1993 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,035 ft, from topographic map. Prior to Oct. 3, 1979, at site upstream at different datum.

REMARKS.--Water-discharge records fair except those for winter period, which are poor. One small diversion from left bank about 1.0 mi upstream for irrigation of small orchard. The La Mesa forest fire which occurred during mid-June 1977 burned about 40% of the forest cover of this watershed and evidently changed the flow characteristics.

AVERAGE DISCHARGE.--12 years (water years 1964-69, 1978-82, 1994), 1.44 ft³/s, 1,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,030 ft³/s July 21, 1978, gage height, 6.34 ft, site and datum then in use, from rating curve extended above 20 ft³/s on basis of slope-area measurements at gage heights 3.88, 5.02 ft and 6.34 ft; no flow Feb. 6, 1968, result of freezeup. The maximum discharge prior to the forest fire of June 1977 was 19 ft³/s June 18, 1965, gage height 1.49 ft, site and datum then in use, from rating curve extended above 7.6 ft³/s on basis of theoretical rating.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 4.0 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 3	1545	6.2	2.05

Minimum daily discharge 0.43 ft³/s, many days in July.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.74	1.0	1.0	e1.4	e.92	1.3	2.3	2.6	1.7	.62	.88	1.4
2	.74	1.0	1.0	e1.3	e.94	1.3	2.2	2.5	1.6	.59	1.2	1.3
3	.75	.95	1.1	e1.2	e.96	1.4	2.2	3.8	1.5	.54	.83	1.3
4	.75	.92	e1.2	e1.1	1.3	1.4	2.3	5.9	1.5	.50	.76	1.3
5	.74	.87	e1.3	e1.1	1.2	1.4	2.4	5.9	1.4	.50	.72	1.3
6	.73	.89	e1.2	e1.0	1.2	1.4	2.4	5.8	1.4	.49	.88	1.4
7	.77	.92	e1.3	e.99	1.2	1.4	2.4	5.8	1.3	.46	.74	1.5
8	.78	.93	e1.3	e.98	1.3	1.5	2.4	5.4	1.3	.46	.87	1.3
9	.78	.91	e1.0	e.97	1.2	1.5	2.7	3.2	1.3	.51	.87	1.3
10	.79	.88	e1.0	e1.0	1.2	1.5	2.7	3.5	1.2	.60	.87	1.4
11	.81	.94	e.98	e.99	1.2	1.5	2.7	3.1	1.2	.55	.87	1.3
12	.82	1.1	e.99	e.98	1.3	1.6	2.7	2.5	1.1	.55	.82	1.3
13	.83	1.1	e1.1	e.96	1.3	1.5	2.6	2.5	1.0	.47	.82	1.4
14	.83	1.1	e1.2	e.90	1.5	1.5	2.7	2.4	.98	.53	.82	1.5
15	.84	1.0	e1.2	e.89	1.4	1.5	2.8	2.3	.97	.57	.77	1.4
16	.85	1.0	e1.1	e.90	1.3	1.6	2.8	2.2	.93	.51	.87	1.3
17	.89	1.0	e1.0	e.91	1.3	1.6	2.8	2.0	.84	.45	.95	1.2
18	.94	.95	e.92	e.98	1.4	1.6	2.9	2.0	.82	.53	1.0	1.2
19	.90	.95	e.88	e1.0	1.3	1.7	3.1	2.0	.90	.51	.87	1.1
20	.90	.95	e.86	e1.1	1.3	1.7	3.2	2.0	1.3	.48	.82	1.1
21	.87	.94	e.86	e1.1	1.3	1.7	3.2	1.9	1.2	.56	2.1	1.1
22	.87	.95	e.90	e1.2	1.3	1.7	3.2	1.8	1.0	.61	.82	1.1
23	.87	1.1	e1.0	e1.1	1.3	1.7	3.2	1.8	.97	.54	1.2	1.0
24	.93	1.1	e1.1	e1.1	1.5	1.8	3.1	1.7	.82	.45	.95	.95
25	1.0	.90	e1.2	e1.1	1.4	1.8	3.0	2.2	.82	.71	.87	.95
26	1.0	1.1	e1.2	e1.0	1.3	1.9	3.0	2.2	.78	.63	1.3	.94
27	.87	.71	e1.3	e1.0	1.3	2.1	3.0	2.2	.74	.68	1.3	.89
28	.87	.96	e1.3	e.99	1.4	2.1	2.9	2.1	.67	.80	1.3	.82
29	.92	1.4	e1.2	e.96	---	2.1	3.0	1.9	.65	1.2	1.4	.81
30	.93	1.1	e1.3	e.95	---	2.2	2.8	1.8	.65	.97	1.4	.80
31	.94	---	e1.4	e.96	---	2.3	---	1.7	---	.78	1.4	---
TOTAL	26.25	29.62	34.39	32.11	35.52	51.3	82.7	88.7	32.54	18.35	31.27	35.66
MEAN	.85	.99	1.11	1.04	1.27	1.65	2.76	2.86	1.08	.59	1.01	1.19
MAX	1.0	1.4	1.4	1.4	1.5	2.3	3.2	5.9	1.7	1.2	2.1	1.5
MIN	.73	.71	.86	.89	.92	1.3	2.2	1.7	.65	.45	.72	.80
AC-FT	52	59	68	64	70	102	164	176	65	36	62	71

WTR YR 1994 TOTAL 498.41 MEAN 1.37 MAX 5.9 MIN .45 AC-FT 989

e Estimated

RIO GRANDE BASIN

08315500 MCCLURE RESERVOIR NEAR SANTA FE, NM

LOCATION.--Lat 35°41'18", long 105°50'06", in NE¼SW¼, sec.24, T.17 N., R.10 E., Santa Fe County, Hydrologic Unit 13020201, in Santa Fe National Forest, at McClure Dam on Santa Fe River, 2.1 mi upstream from Nichols Reservoir, 3.0 mi above El Estero, and 10 miles S.W.

PERIOD OF RECORD.--September 1929, July to October 1930, April 1931 to June 1946, September 1947 to current year. Prior to October 1947, published in WSP 1312. Prior to October 1965, monthend contents only. Prior to January 1980 at site on outlet tower.

GAGE.--Water-stage recorder. Elevation of gage is 7,790 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 1, 1947, nonrecording gages at same site and various datums all referred to the Public Service Co. of New Mexico assumed datum, 165.9 ft lower.

REMARKS.--Reservoir is formed by earthfill dam, completed in 1926, capacity, 561 acre-ft, raised 3 ft in 1935, capacity, 650 acre-ft, and raised 36.5 ft more in 1947, capacity, 2,615 acre-ft at gage height 96.6 ft, crest of concrete spillway. Between October 1947 and May 1953 varying amounts of sandbag bulkheads were placed on crest of spillway to increase capacity. Between May 1953 and December 1971 spillway was equipped with radial gates that opened automatically thereby increasing capacity to over 3,000 acre-ft. Radial gates were removed during 1972, capacity, 2,615 acre-ft. In 1989, modifications to the dam and spillway increased capacity to 2,813 acre-ft. No dead storage. Water is for municipal use of City of Santa Fe.

COOPERATION.--Capacity table and supplementary gage readings, provided by Public Service Co. of New Mexico.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 3,140 acre-ft, June 25, 1960, gage height, 103.7 ft; no contents Jan. 25 to May 8, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 2,860 acre-ft; many days, maximum gage height, 99.95 ft, May 13; minimum, 1,190 acre-ft, Sept. 30, gage height, 72.79.

Capacity table (gage height, in feet, and contents, in acre-feet)

(Based on survey by Public Service Co. of New Mexico in 1947)

60	668	90	2,160
70	1,050	100	2,860
80	1,550		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2180	1790	1850	1830	1800	1790	2150	2650	2860	2800	2040	1730
2	2170	e1780	1850	1830	1800	1790	2160	2660	2860	2790	2010	1710
3	2170	e1780	1850	1830	1800	1800	2180	2660	2850	2780	1990	1690
4	2160	e1780	1850	1830	1800	1800	2190	2670	2850	2770	1980	1670
5	2160	e1780	1850	1830	1800	1800	2200	2690	2850	2760	1980	1650
6	2160	e1780	1850	1830	1800	1810	2210	2710	2850	2740	1980	1630
7	2150	e1780	1850	1830	1800	1810	2210	2740	2850	2730	1970	1620
8	2140	1780	1840	1830	1800	1820	2210	2770	2840	2720	1970	1600
9	2120	e1790	1840	1830	1790	1830	2210	2800	2840	2700	1960	1570
10	2100	e1790	1840	1820	1790	1830	2210	2840	2840	2690	1960	1550
11	2070	e1800	1840	1820	1790	1840	2210	2840	2840	2670	1960	1530
12	2050	e1810	1840	1820	1790	1850	2210	2850	2840	2660	1950	1510
13	2050	e1820	1840	1820	1790	1850	2210	2860	2840	2640	1950	1500
14	e2020	e1830	1840	1820	1790	1860	2230	2860	2830	2620	1950	1490
15	e1990	1830	1840	1820	1790	1870	2240	2860	2830	2580	1940	1470
16	e1980	e1830	1840	1820	1790	1880	2260	2860	2830	2550	1940	1450
17	e1960	e1830	1840	1820	1790	1900	2280	2850	2830	2510	1930	1430
18	1940	e1830	1840	1810	1790	1920	2310	2850	2830	2470	1930	1410
19	e1920	e1830	1840	1810	1790	1940	2340	2860	2830	2440	1920	1400
20	e1910	e1830	1840	1810	1790	1970	2380	2860	2830	2410	1920	1380
21	e1900	e1830	1840	1810	1790	1990	2410	2860	2840	2370	1920	1360
22	e1890	1840	1840	1810	1790	2010	2440	2850	2840	2340	1910	1340
23	e1870	1840	1840	1810	1790	2020	2480	2860	2830	2310	1910	1320
24	e1860	1840	1840	1810	1790	2040	2520	2860	2830	2280	1890	1310
25	e1850	1840	1840	1810	1790	2050	2560	2860	2830	2250	1870	1290
26	e1840	1840	1840	1810	1790	2070	2580	2860	2830	2220	1850	1270
27	e1830	1850	1840	1810	1790	2080	2600	2860	2820	2180	1830	1250
28	e1820	1850	1840	1810	1790	2090	2620	2860	2820	2150	1810	1230
29	e1810	1850	1840	1800	---	2100	2630	2860	2810	2120	1790	1210
30	e1800	1850	1840	1810	---	2120	2640	2860	2810	2100	1770	1190
31	e1790	---	1840	1810	---	2130	---	2860	---	2070	1750	---
MAX	2180	1850	1850	1830	1800	2130	2640	2860	2860	2800	2040	1730
MIN	1790	1780	1840	1800	1790	1790	2150	2650	2810	2070	1750	1190
(†)	88.24	84.91	84.69	84.18	83.94	89.57	96.91	99.92	99.19	88.54	83.20	72.79
(††)	-390	+60	-10	-30	-20	+340	+510	+220	-50	-740	-320	-560

CAL YR 1993 MAX 2870 MIN 1430 (††) +410
WTR YR 1994 MAX 2860 MIN 1190 (††) -990

e Estimated

(†) GAGE HEIGHT, IN FEET, AT END OF MONTH
(††) CHANGE IN CONTENTS, IN ACRE-FEET

RIO GRANDE BASIN

08316000 SANTA FE RIVER NEAR SANTA FE, NM

LOCATION. --Lat 35°41'12", long 105°50'35", in NE¼ sec. 23, T.17 N., R.10 E., Santa Fe County, Hydrologic Unit 13020201, in Santa Fe National Forest, on left bank 0.4 mi downstream from McClure Dam, 5.3 mi east of Santa Fe, and at mile 36.6.

DRAINAGE AREA.--18.2 mi².

PERIOD OF RECORD.--June 1910, January 1913 to current year. Monthly discharge only for some periods, published in WSP 1312. Prior to October 1953, published as "Santa Fe Creek near Santa Fe."

REVISED RECORDS.--WSP 1512: 1933, 1936-37(M), 1942, drainage area. WSP 1732: 1923, 1925. WDR NM-75-1: 1927.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 7,720 ft above National Geodetic Vertical Datum of 1929, from topographic map. See WSP 1312 for history of changes prior to Oct. 1, 1947.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by McClure Reservoir (station 08315500), completed in 1926, raised in 1935 1947, and again in 1989. Several observations of water temperature were made during year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Peaks which probably exceeded 1,000 ft³/s occurred Aug. 19, 1872, and Sept. 29 or 30, 1904. Without regulation the flood of Sept. 23, 1929, might have exceeded 1,500 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	e6.0	1.7	1.7	2.0	2.0	5.0	9.4	57	10	17	12
2	3.5	e1.7	1.7	1.7	2.0	2.0	9.3	9.4	60	10	18	12
3	3.5	e1.7	1.7	1.7	2.0	2.1	9.2	9.4	53	10	12	12
4	3.4	e1.7	1.7	1.7	2.0	2.2	9.2	9.4	52	10	4.0	12
5	3.4	e1.7	1.8	1.7	2.0	2.2	9.2	9.4	48	10	4.0	12
6	3.5	e1.7	1.7	1.7	2.0	2.2	9.4	9.4	42	10	4.1	12
7	3.5	e1.7	1.7	1.7	2.0	2.2	9.4	9.5	38	10	4.2	12
8	8.0	e1.7	1.7	1.7	2.0	2.3	9.4	9.5	34	10	4.2	12
9	12	e1.7	1.7	1.7	2.0	2.2	9.4	9.6	30	10	4.2	12
10	12	e1.7	1.7	1.7	2.0	2.2	9.6	11	27	10	4.2	12
11	12	e1.7	1.7	1.7	2.0	2.2	10	26	26	10	4.3	12
12	12	e1.7	1.7	1.7	2.0	2.3	9.8	39	24	10	4.2	11
13	12	e1.7	1.7	1.9	2.0	2.2	9.4	67	21	10	4.2	11
14	12	e1.7	1.7	2.0	2.0	2.2	9.0	77	19	15	4.2	11
15	12	e1.7	1.7	2.0	2.0	2.2	9.2	67	17	20	4.2	11
16	12	e1.7	1.7	2.0	2.0	2.3	9.1	59	15	20	4.2	11
17	12	e1.7	1.7	2.0	2.0	2.3	9.2	57	14	20	4.2	11
18	12	e1.7	1.7	2.0	2.0	2.1	9.2	56	14	20	4.2	11
19	12	e1.7	1.7	2.1	2.0	2.1	9.2	57	20	20	4.2	11
20	14	e1.7	1.7	2.0	2.0	2.2	9.2	60	16	19	4.2	11
21	15	e1.7	1.7	2.0	2.0	2.1	9.2	61	18	19	4.2	11
22	14	1.7	1.7	2.0	2.0	2.0	9.2	57	22	19	4.2	11
23	13	1.7	1.7	2.0	2.0	2.0	9.3	54	17	19	4.2	11
24	13	1.7	1.7	2.0	2.0	2.0	9.3	52	15	19	8.8	11
25	13	1.7	1.7	2.0	2.0	2.0	9.4	60	13	19	13	11
26	13	1.7	1.7	2.0	2.0	2.1	9.3	61	11	19	13	11
27	13	1.7	1.7	2.0	2.0	2.2	9.5	61	11	18	13	11
28	13	1.7	1.7	2.0	2.0	2.1	9.6	59	10	18	12	11
29	13	1.7	1.7	2.0	---	2.1	9.6	56	10	18	12	11
30	13	1.7	1.7	2.0	---	2.2	9.4	56	10	17	12	11
31	13	---	1.7	2.0	---	2.2	---	56	---	17	12	---
TOTAL	324.1	55.3	52.8	58.4	56.0	66.7	276.2	1294.0	764	466	226.4	341
MEAN	10.5	1.84	1.70	1.88	2.00	2.15	9.21	41.7	25.5	15.0	7.30	11.4
MAX	15	6.0	1.8	2.1	2.0	2.3	10	77	60	20	18	12
MIN	3.3	1.7	1.7	1.7	2.0	2.0	5.0	9.4	10	10	4.0	11
AC-FT	643	110	105	116	111	132	548	2570	1520	924	449	676

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1994, BY WATER YEAR (WY)

MEAN	4.65	3.05	2.62	2.43	2.75	4.72	12.8	23.6	17.3	9.44	8.49	6.69
MAX	22.6	13.5	7.19	6.87	14.2	30.0	68.5	92.9	75.2	56.2	74.0	36.0
(WY)	1942	1942	1959	1970	1916	1916	1915	1941	1921	1919	1921	1929
MIN	.58	.26	.28	.50	.37	.34	.23	.53	.70	1.06	.81	.90
(WY)	1957	1972	1944	1990	1927	1972	1981	1955	1955	1981	1951	1959

SUMMARY STATISTICS

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1913 - 1994	
ANNUAL TOTAL	4938.07		3980.9			
ANNUAL MEAN	13.5		10.9		8.22	
HIGHEST ANNUAL MEAN					26.2	
LOWEST ANNUAL MEAN					1.88	
HIGHEST DAILY MEAN	85	May 29	77	May 14	378	Sep 23 1929
LOWEST DAILY MEAN	.67	Jan 12	1.7	Nov 2	.10	Feb 7 1927
ANNUAL SEVEN-DAY MINIMUM	.71	Jan 11	1.7	Nov 2	.17	Nov 4 1971
INSTANTANEOUS PEAK FLOW			92	May 14	b1500	Aug 14 1921
INSTANTANEOUS PEAK STAGE			2.94	May 14	a5.17	Aug 14 1921
INSTANTANEOUS LOW FLOW			1.6	Nov 22	.05	Apr 7 1981
ANNUAL RUNOFF (AC-FT)	9790		7900		5950	
10 PERCENT EXCEEDS	33		20		18	
50 PERCENT EXCEEDS	7.1		9.1		4.2	
90 PERCENT EXCEEDS	1.2		1.7		1.0	

e Estimated

a-Site and datum then in use.

b-From rating curve extended above 150 ft³/s.

RIO GRANDE BASIN

08316500 NICHOLS RESERVOIR NEAR SANTA FE, NM

LOCATION.--Lat 35°41'24", long 105°52'46", in SE¼NE¼ sec.21, T.17 N., R.10 E., Santa Fe County, Hydrologic Unit 12020201 in Santa Fe National Forest at Nichols Dam on Santa Fe River. 0.6 mi east of Twomile Reservoir, 3.3 mi east of Santa Fe, and at mile 34.4.

DRAINAGE AREA.--22.8 mi².

PERIOD OF RECORD.--March 1943 to September 1965 (monthend contents only), October 1965 to current year. Prior to January 1980 at site on outlet tower.

GAGE.--Water-stage recorder. Datum of gage is 7,313.2 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Reservoir is formed by earthfill dam. No contents prior to Mar. 16, 1943. Capacity, 685 acre-ft between gage heights 121.2 ft, bottom of lower operational gate and 167.0 ft, crest of spillway. Dead storage, 14 acre-ft. Water is for municipal use of City of Santa Fe.

COOPERATION.--Survey to compute capacity table and supplementary gage readings, provided by Public Service Co. of New Mexico.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 836 acre-ft, June 8, 1952, gage height, 171.8 ft; minimum, 16 acre-ft, Feb. 11 to Mar. 10, 1944, Feb. 1-19, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 696 acre-ft, May 24-25; maximum gage height, 162.26 ft, May 24, minimum, 275 acre-ft, Oct. 8, gage height, 149.75
Capacity table (gage height, in feet, and contents, in acre-feet)

(Based on survey by Public Service Co. of New Mexico in 1943)

133	74	150	279
135	89	160	491
140	139	170	776

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	352	527	585	573	538	546	454	351	695	590	624	353
2	342	530	588	570	539	547	453	338	695	580	629	362
3	332	533	588	568	539	547	451	320	694	570	615	368
4	318	535	586	566	540	547	444	311	693	557	604	376
5	299	535	585	563	540	548	435	313	692	547	590	386
6	287	535	584	560	541	549	429	311	691	530	579	397
7	276	538	583	558	542	552	426	311	691	517	569	408
8	275	541	582	556	542	553	425	311	690	503	549	417
9	297	544	581	553	542	554	425	312	690	492	535	416
10	319	546	580	551	542	555	424	341	689	481	527	420
11	335	545	581	548	542	556	423	389	689	470	516	421
12	366	550	581	546	542	557	424	479	688	460	500	424
13	378	553	581	544	543	559	426	595	687	459	487	427
14	397	556	581	541	543	560	428	693	687	467	474	440
15	416	559	580	539	543	562	430	695	686	467	455	445
16	435	561	580	537	543	564	430	695	679	476	442	454
17	453	564	580	534	544	561	430	695	674	484	426	465
18	476	565	580	532	544	555	429	695	682	485	410	474
19	492	568	580	529	544	551	428	696	686	494	390	477
20	517	571	579	529	544	546	423	695	689	499	371	479
21	533	574	581	529	542	541	421	695	688	508	355	477
22	548	577	581	530	545	536	416	695	687	520	342	479
23	543	580	582	531	545	530	415	694	684	533	338	476
24	534	581	584	532	545	524	414	696	679	545	337	475
25	524	581	584	533	545	519	408	696	671	555	343	474
26	517	582	585	533	545	515	406	695	662	566	341	473
27	520	582	585	534	546	506	398	695	646	577	344	472
28	523	582	583	535	546	488	381	695	630	591	347	469
29	525	581	581	536	---	478	365	695	614	599	344	467
30	522	583	578	536	---	467	353	695	602	610	343	464
31	525	---	575	537	---	455	---	695	---	619	346	---
MAX	548	583	588	573	546	564	454	696	695	619	629	479
MIN	275	527	575	529	538	455	353	311	602	459	337	353
(↑)	161.25	163.43	163.15	---	162.05	158.44	153.87	167.33	164.13	164.77	153.47	158.83
(↑↑)	+163	+58	-8	-38	+9	-91	-102	+342	-93	+17	-273	+118

CAL YR 1993 MAX 698 MIN 192 (↑↑) +254
WTR YR 1994 MAX 696 MIN 275 (↑↑) +102

(↑) GAGE HEIGHT, IN FEET, AT END OF MONTH
(↑↑) CHANGE IN CONTENTS, IN ACRE-FEET

RIO GRANDE BASIN
08317200 SANTA FE RIVER ABOVE COCHITI LAKE, NM

LOCATION.--Lat 35°32'49", Long 106°13'41", in NW¼ sec.8, T.15 N., R.7 E., Santa Fe County, Hydrologic Unit 13020201 in Mesita de Juana Lopez Grant, on right bank at foot of La Bajada Hill, 5.0 mi upstream from Cochiti Dam, 6.3 mi east of Pena Blanca, and at mile 7.9.

DRAINAGE AREA.--231 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1970 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 5,505 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Surface-and ground-water diversions and returns for municipal supply of City of Santa Fe in upper part of basin. Diversions for irrigation of about 400 acres upstream from station. See tabulation below for the results of discharge measurements made during year at point adjacent to gage of an unnamed ditch on right bank which diverts water 0.4 mi upstream and bypasses gage; ditch flow not included in record. Lowest flow for period of record, no flow July 16-18, 1971.

DISCHARGE MEASUREMENTS, IN CUBIC FEET PER SECOND, OF DITCH, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Discharge	Date	Discharge
10/01/93	1.0	05/09/94	.41
12/17/93	.07	06/07/94	.63
03/03/94	0	08/04/94	.84
04/06/94	0		

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	8.1	10	10	7.9	8.4	10	10	45	2.4	10	8.5
2	9.1	8.2	10	9.3	7.2	8.5	9.0	9.6	47	3.0	10	67
3	9.0	8.1	10	8.7	8.0	9.2	9.2	7.0	43	2.9	19	17
4	8.6	7.9	10	8.7	8.2	9.3	8.8	12	44	2.6	7.8	15
5	7.4	8.7	e9.8	8.4	8.3	9.4	11	9.3	40	2.3	8.9	9.5
6	7.5	9.2	e9.8	8.4	8.4	9.3	11	7.4	33	1.9	24	22
7	8.8	10	e9.7	8.0	8.6	9.6	9.3	6.8	27	2.3	9.6	11
8	10	9.8	e9.9	8.3	e9.0	17	9.6	7.3	23	3.2	8.9	9.2
9	9.2	9.4	e10	8.5	e9.2	10	9.9	7.1	18	2.5	8.4	8.7
10	8.6	9.1	e9.8	8.4	e9.4	10	11	13	14	2.5	8.0	8.6
11	9.4	10	e9.9	8.8	e9.6	11	18	14	13	2.2	6.9	8.3
12	9.0	10	e10	6.9	e9.8	14	11	13	12	1.3	6.1	7.8
13	8.7	9.6	e9.8	5.9	e9.6	12	9.3	23	11	1.5	6.4	12
14	9.2	11	e9.9	e6.4	e9.7	11	7.5	12	8.3	3.9	6.7	15
15	9.5	10	e10	e6.8	e10	11	6.6	11	8.0	3.3	10	9.5
16	10	9.1	e10	e7.1	e9.8	11	7.1	24	5.7	5.0	7.5	9.0
17	11	9.2	e11	e7.2	e9.8	10	7.8	42	4.6	4.7	7.2	8.3
18	11	8.9	12	e7.7	e9.8	10	7.9	44	4.4	4.3	7.1	8.3
19	10	9.3	11	e7.6	9.9	9.3	6.6	94	5.5	2.9	6.1	7.7
20	10	9.4	11	e7.7	10	11	8.3	66	5.7	3.5	5.8	6.2
21	9.8	9.5	11	e7.5	9.6	9.4	7.0	54	6.5	5.3	6.6	6.9
22	10	9.6	12	e7.4	10	9.6	8.4	50	6.3	4.0	6.7	7.4
23	11	9.7	12	e7.5	8.7	9.8	8.4	48	10	5.8	6.7	7.6
24	10	10	13	e7.6	8.6	9.3	7.5	45	6.5	5.8	5.7	6.3
25	9.0	9.7	12	e7.4	9.2	9.0	9.1	98	4.0	5.0	4.6	6.5
26	8.4	9.9	11	e7.2	9.4	9.1	8.6	92	4.0	4.6	5.1	6.2
27	8.0	11	11	e7.1	9.5	10	8.4	62	3.6	7.1	3.3	3.9
28	8.2	10	11	e7.1	8.4	11	7.7	58	2.8	7.2	4.1	4.8
29	9.0	10	10	e7.4	---	8.7	9.5	52	3.6	6.7	5.0	6.1
30	8.6	9.9	11	e7.3	---	9.7	13	47	3.7	5.9	4.3	5.1
31	8.8	---	11	7.3	---	9.7	---	46	---	5.4	4.5	---
TOTAL	285.4	284.3	328.6	239.6	255.6	316.3	276.5	1084.5	463.2	121.0	241.0	329.4
MEAN	9.21	9.48	10.6	7.73	9.13	10.2	9.22	35.0	15.4	3.90	7.77	11.0
MAX	11	11	13	10	10	17	18	98	47	7.2	24	67
MIN	7.4	7.9	9.7	5.9	7.2	8.4	6.6	6.8	2.8	1.3	3.3	3.9
AC-FT	566	564	652	475	507	627	548	2150	919	240	478	653

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1994, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
MEAN	7.48	8.74	9.83	9.79	9.97	10.4	22.1	19.2	14.0	8.09	7.39	7.72			
MAX	16.4	13.2	15.2	14.4	16.6	28.6	306	69.3	75.3	28.0	32.8	19.2			
(WY)	1986	1992	1992	1986	1992	1992	1992	1973	1979	1971	1991	1990			
MIN	3.98	5.53	6.84	6.51	7.17	6.15	3.64	1.60	1.19	2.29	2.14	2.61			
(WY)	1980	1980	1971	1971	1971	1971	1971	1970	1971	1980	1971	1970			

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1970 - 1994
ANNUAL TOTAL	5952.2	4225.4	
ANNUAL MEAN	16.3	11.6	11.4
HIGHEST ANNUAL MEAN			40.1
LOWEST ANNUAL MEAN			6.09
HIGHEST DAILY MEAN	74	98	1000
LOWEST DAILY MEAN	4.5	1.3	.00
ANNUAL SEVEN-DAY MINIMUM	5.0	2.2	.01
INSTANTANEOUS PEAK FLOW		1230	a11400
INSTANTANEOUS PEAK STAGE		4.27	9.58
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (AC-FT)	11810	8380	8270
10 PERCENT EXCEEDS	30	14	16
50 PERCENT EXCEEDS	10	9.1	8.0
90 PERCENT EXCEEDS	7.4	4.9	2.8

a Estimated

a-From rating curve extended above 160 ft/s on basis of slope-area measurements at gage heights 5.69 ft and 9.58 ft.

RIO GRANDE BASIN

08317200 SANTA FE RIVER ABOVE COCHITI LAKE, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD --Water years 1974-75, 1979, 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
OCT 1993										
01...	1030	9.8	670	8.8	--	14.0	625	8.9	106	130
NOV										
01...	0900	8.1	666	8.4	13.0	5.5	622	10.6	104	150
DEC										
01...	0845	10	671	8.6	1.0	1.5	627	10.9	95	150
JAN 1994										
14...	0900	5.1	608	8.2	-1.0	0.0	632	12.8	106	140
FEB										
23...	1015	8.5	628	8.3	-1.5	0.0	627	12.6	105	130
MAR										
15...	0845	10	673	8.4	9.0	5.5	627	10.8	105	140
APR										
08...	1145	8.3	514	8.8	18.5	9.5	623	10.2	109	120
MAY										
20...	0945	51	254	8.0	19.0	13.5	625	8.6	101	75
JUN										
03...	0930	43	210	7.9	19.0	15.0	629	8.4	101	68
JUL										
01...	0800	3.9	636	8.4	--	16.5	626	8.0	100	120
14...	1030	3.4	614	8.3	20.5	19.5	629	7.9	105	--
AUG										
05...	0900	11	594	8.5	23.0	19.0	632	7.6	99	120
SEP										
07...	0845	9.9	583	8.4	16.5	15.5	630	7.8	95	120

DATE	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LITY LAB (MG/L AS CACO3) (90410)
OCT 1993										
01...	0	40	6.5	93	4	9.7	279	18	258	246
NOV										
01...	0	47	7.1	92	3	10	306	0	251	240
DEC										
01...	0	47	7.0	94	3	10	281	9	245	258
JAN 1994										
14...	0	46	6.7	84	3	9.8	279	0	228	229
FEB										
23...	0	43	6.4	90	3	8.8	292	4	246	249
MAR										
15...	0	45	6.8	88	3	9.6	295	6	251	252
APR										
08...	0	38	5.9	61	2	8.9	162	13	154	159
MAY										
20...	0	25	3.1	19	1	3.7	106	0	86	112
JUN										
03...	0	22	3.1	15	0.8	2.7	90	0	73	84
JUL										
01...	0	39	6.4	81	3	9.7	234	6	202	211
14...	--	--	--	--	--	--	234	4	199	--
AUG										
05...	0	37	5.5	84	3	10	229	5	196	196
SEP										
07...	0	38	5.8	73	3	9.5	244	2	203	203

RIO GRANDE BASIN

08317200 SANTA FE RIVER ABOVE COCHITI LAKE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT 1993										
01...	35	43	0.70	26	377	416	--	<0.010	0.260	0.020
NOV										
01...	38	37	0.60	28	408	420	1.26	0.040	1.30	0.050
DEC										
01...	37	42	0.60	27	409	427	2.72	0.080	2.80	0.110
JAN 1994										
14...	35	45	0.60	27	370	401	1.30	0.100	1.40	0.490
FEB										
23...	35	39	0.60	26	403	401	0.600	0.050	0.650	0.320
MAR										
15...	38	42	0.60	26	398	413	0.970	0.030	1.00	0.130
APR										
08...	39	40	0.80	18	318	310	1.11	0.090	1.20	0.030
MAY										
20...	17	11	0.40	13	157	147	0.400	0.020	0.420	0.080
JUN										
03...	13	8.3	0.30	13	132	124	--	<0.010	0.130	0.050
JUL										
01...	39	46	0.70	23	391	376	1.49	0.210	1.70	0.050
14...	--	--	--	--	--	--	--	--	--	--
AUG										
05...	34	43	0.70	25	367	366	1.64	0.160	1.80	0.120
SEP										
07...	32	41	0.60	23	324	348	--	<0.010	0.510	0.040

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
OCT 1993										
01...	0.58	0.60	0.60	2.00	2.00	2.00	14	3	7	0.19
NOV										
01...	0.55	0.60	0.60	1.30	1.30	1.20	19	4	8	0.17
DEC										
01...	0.39	0.70	0.50	1.10	0.940	0.970	22	10	6	0.16
JAN 1994										
14...	0.71	1.3	1.2	0.760	0.750	0.770	26	22	17	0.23
FEB										
23...	0.38	1.4	0.70	0.790	0.570	0.530	25	19	--	--
MAR										
15...	0.57	1.1	0.70	0.540	0.490	0.420	21	12	74	2.1
APR										
08...	0.57	0.70	0.60	0.240	0.210	0.200	35	18	45	1.0
MAY										
20...	0.22	0.80	0.30	0.450	0.150	0.160	18	4	--	--
JUN										
03...	0.15	0.60	0.20	0.670	0.350	0.370	68	8	1010	117
JUL										
01...	0.55	0.70	0.60	0.940	0.940	0.880	30	7	579	6.0
14...	--	--	--	--	--	--	--	--	--	--
AUG										
05...	0.68	1.2	0.80	0.640	0.510	0.480	55	8	322	9.6
SEP										
07...	0.46	0.90	0.50	0.570	0.430	0.400	31	7	164	4.4

RIO GRANDE BASIN

08317300 COCHITI LAKE NEAR COCHITI PUEBLO, NM -- Continued

WATER-QUALITY RECORDS

LOCATION.--Samples collected in Cochiti Lake impounded by Cochiti Dam on the Rio Grande.

PERIOD OF RECORD.--Water years 1981 to current year.

REMARKS.--Samples for chemical analyses are collected annually at Site A which is located 500 ft upstream from the Outlet Tower (Riser). Samples are collected 5 feet above the bottom of the lake.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	RESER- VOIR DEPTH (FEET) (72025)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
AUG 1994												
19...	1014	1.00	85.0	308	8.5	--	24.0	630	7.7	112	--	--
19...	1015	5.00	85.0	--	--	--	23.5	630	7.3	--	--	--
19...	1016	10.0	85.0	--	--	--	23.5	630	7.0	--	--	--
19...	1017	15.0	85.0	--	--	--	23.5	630	6.9	--	--	--
19...	1018	20.0	85.0	--	--	--	23.5	630	6.8	--	--	--
19...	1019	25.0	85.0	--	--	--	23.0	630	6.8	--	--	--
19...	1020	30.0	85.0	--	--	--	22.5	630	5.2	--	--	--
19...	1021	35.0	85.0	309	8.3	--	22.0	630	4.2	59	--	--
19...	1022	40.0	85.0	--	--	--	22.0	630	4.0	--	--	--
19...	1023	45.0	85.0	--	--	--	22.0	630	3.7	--	--	--
19...	1024	85.0	85.0	--	--	--	21.5	630	3.5	--	--	--
19...	1025	55.0	85.0	--	--	--	21.5	630	3.5	--	--	--
19...	1026	60.0	85.0	--	--	--	21.0	630	3.5	--	--	--
19...	1027	65.0	85.0	--	--	--	21.0	630	2.5	--	--	--
19...	1028	70.0	85.0	--	--	--	20.5	630	0.7	--	--	--
19...	1030	75.0	85.0	313	7.7	26.0	20.0	630	0.4	5	<10	<1
19...	1035	80.0	85.0	--	--	--	20.0	630	0.5	--	--	--

DATE	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LITY LAB (MG/L AS CACO3) (90410)
------	--	--	--	---	---	---	--	--	--	---	--	--

AUG 1994												
19...	K1	120	22	36	6.7	16	0.6	2.5	117	0	96	100

DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
------	--	--	---	--	--	--	--	--	--	---	--	--

AUG 1994												
19...	50	4.0	0.30	17	191	<0.010	0.140	0.030	0.20	0.050	<0.010	4.3

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)
------	--	---	---	--	---	---	--	--	---	---	--

AUG 1994											
19...	2	2	20	<1	<1.0	<1	<1	2	<1	7	<1

RIO GRANDE BASIN
08317300 COCHITI LAKE NEAR COCHITI PUEBLO, NM -- Continued
WATER-QUALITY RECORDS

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	NITRO- GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO- GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOS- PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
AUG 1994											
19...	<1	<0.10	<0.1	<1	<1	<10	3	4.0	170	690	700

DATE	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD) (01028)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO) (01029)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB) (01052)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG) (01053)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN) (01093)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) (80030)
AUG 1994											
19...	7	<1	10	20	20	16000	10	1300	0.04	90	1.8

DATE	ALPHA, COUNT, 2 SIGMA WAT DIS AS NAT U (UG/L) (75986)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED (PCI/L AS Y-90) (80050)	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L (75988)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)
AUG 1994											
19...	1.4	1.2	0.90	3.1	0.88	2.5	0.70	0.11	0.020	1.7	<1.0

RIO GRANDE BASIN

08317400 RIO GRANDE BELOW COCHITI DAM, NM

LOCATION.--Lat 35°37'05", long 106°19'24", in SW¼ sec.17, T.16 N., R.6 E., Sandoval County, Hydrologic Unit 13020201, in Pueblo de Cochiti Grant, on right bank 320 ft upstream from bridge on State Highway 22, 700 ft downstream from Cochiti Dam, 1.4 mi northeast of Cochiti Pueblo, and at mile 1.587.6.

DRAINAGE AREA.--14,900 mi², approximately, including 2,940 mi² in closed basin in San Luis Valley, CO.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,226.08 ft above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Nov. 14, 1973, at site 2.4 mi downstream at elevation 5,210 ft, from topographic map. Nov. 14, 1973, to Jan. 8, 1976, at site 320 ft downstream at datum 1.79 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. Discharges include flow of Santa Fe River, which is intercepted by Cochiti Dam and released through the combined outlet works. Flow regulated by Cochiti Dam since Nov. 12, 1973. Diversions upstream from station for irrigation of about 620,000 acres in Colorado and about 81,000 acres in New Mexico. Cochiti Eastside Main Canal, on left bank, and Sili Main Canal, on right bank, head at Cochiti Dam and bypass gage for irrigation of about 6,000 acres downstream from station; see tabulation below for monthly and yearly diversion. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of May 15, 1941, reached a discharge of 23,400 ft³/s at a nearby site upstream from mouth of Santa Fe River. The flood of May 23, 1920, probably exceeded 23,400 ft³/s, and is likely the highest since 1905.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	562	600	1170	879	755	1120	1770	3500	5270	1540	660	1030
2	580	875	1160	906	648	1190	2130	3390	5840	1090	690	1140
3	547	1110	1190	922	621	1230	2200	3310	5850	1090	845	761
4	545	980	1110	908	695	1360	2160	3120	4690	1050	831	646
5	545	1120	1110	892	861	1380	2260	3210	3800	1010	775	583
6	599	1180	1260	868	890	1370	2500	3970	4020	976	775	588
7	658	1200	1310	847	730	1500	2580	4530	4800	912	915	588
8	709	1100	1360	847	707	1700	2580	4550	5390	868	884	588
9	736	1060	1260	844	748	1810	2590	4590	5750	892	776	587
10	734	1070	1280	857	784	1670	2580	4780	5410	887	767	588
11	727	1010	1310	868	838	1400	2670	5300	4880	892	765	604
12	731	1100	1400	868	836	1410	2750	5190	4850	868	771	605
13	675	1200	1370	778	808	1130	2710	5310	4880	824	771	606
14	641	1130	1280	733	785	881	2880	5590	5070	817	928	653
15	641	1060	1300	755	777	906	3140	5550	5360	926	1420	655
16	637	1180	1260	755	808	1150	3120	5340	5440	1030	1090	602
17	632	1200	1230	755	870	1330	3110	5240	5410	1020	488	588
18	632	1120	1210	812	921	1370	3540	5320	5360	1030	357	604
19	582	1080	1210	840	933	1410	4040	5390	5300	1100	490	614
20	520	1080	1180	828	962	1540	4040	5460	5260	1100	780	614
21	513	1090	1220	806	1010	1670	4200	5840	4860	1050	845	628
22	511	1090	1320	800	922	1800	4370	6200	5240	1140	839	633
23	503	1150	1300	808	868	1740	4380	6210	5300	927	802	623
24	503	1240	1090	816	868	1710	4880	6230	5380	720	736	687
25	503	1270	925	816	808	1690	5320	5830	5430	735	860	660
26	485	1270	815	815	775	1580	5310	5300	5380	732	839	623
27	457	1250	726	823	933	1440	5160	5060	5310	737	776	623
28	477	1050	808	826	950	1370	4160	4230	5200	768	680	623
29	512	943	878	824	---	1370	3620	3650	3790	897	634	623
30	607	1060	879	825	---	1540	3740	3670	2490	877	707	629
31	715	---	879	808	---	1580	---	4080	---	707	656	---
TOTAL	18419	32868	35800	25729	23111	44347	100490	148940	151010	29212	24152	19596
MEAN	594	1096	1155	830	825	1431	3350	4805	5034	942	779	653
MAX	736	1270	1400	922	1010	1810	5320	6230	5850	1540	1420	1140
MIN	457	600	726	733	621	881	1770	3120	2490	707	357	583
AC-FT	36530	65190	71010	51030	45840	87960	199300	295400	299500	57940	47910	38870
(†)	6730	264	0	0	0	5010	7230	7620	7740	7730	7610	7490
(††)	4000	0	0	0	0	4020	4430	4260	4250	4830	4660	4110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1994, BY WATER YEAR (WY)

	MEAN	530	898	933	833	989	1271	2190	3274	3070	1675	871	657
MAX	1192	1878	1787	2245	3639	2868	6320	6101	6205	5643	3683	1635	
(WY)	1987	1987	1987	1986	1986	1986	1985	1984	1983	1979	1986	1986	
MIN	214	331	461	428	493	438	281	353	392	293	254	121	
(WY)	1975	1990	1978	1977	1978	1977	1977	1972	1972	1972	1972	1974	

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1971 - 1994
ANNUAL TOTAL	715406	653674	
ANNUAL MEAN	1960	1791	1433
HIGHEST ANNUAL MEAN			2355
LOWEST ANNUAL MEAN			452
HIGHEST DAILY MEAN	7230	Jun 4	8290
LOWEST DAILY MEAN	289	Feb 19	357
ANNUAL SEVEN-DAY MINIMUM	491	Oct 22	491
INSTANTANEOUS PEAK FLOW			51
INSTANTANEOUS PEAK STAGE			Aug 4 1977
INSTANTANEOUS LOW FLOW			39
ANNUAL RUNOFF (AC-FT)	1419000	1297000	1038000
10 PERCENT EXCEEDS	4620	5190	3720
50 PERCENT EXCEEDS	1140	1030	844
90 PERCENT EXCEEDS	687	618	345

a--Site and datum then in use.

b--Form rating curve extended above 2,600 ft 3/s.

c--Aug. 3-5, 1977, Aug. 27, 28, 1978, result of regulation.

(†) DIVERSION, IN ACRE-FEET, BY COCHITI EASTSIDE MAIN CANAL AT HEAD

(††) DIVERSION, IN ACRE-FEET, BY SILI MAIN CANAL AT HEAD

RIO GRANDE BASIN

08317900 GALISTEO RESERVOIR NEAR CERRILLOS, NM

LOCATION.--Lat 35°27'44", long 106°12'30", in NW¼ sec.9 T.14 N., R.7 E., Santa Fe County, Hydrologic Unit 13020201, in Mesita de Juana Lopez Grant, at Galisteo Dam on Galisteo Creek, 5.0 mi northwest of Cerrillos, and at mile 11.0.

PERIOD OF RECORDS.--October 1970 to current year.

GAGE.--Water-stage recorder above elevation 5,500.3 ft, nonrecording below. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Reservoir is formed by an earthfill dam, completed Oct. 11, 1970. Capacity, based on capacity table effective January 1972, 88,990 acre-ft between elevations 5,496.0 ft, sill of ungated outlet conduit, and 5,608.0 ft, crest of uncontrolled spillway. No dead storage. Reservoir is used for flood control. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Records provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,510 acre-ft, July 26, 1971, elevation, 5,517.00; no storage most of time.

EXTREMES FOR CURRENT YEAR.--No storage all year.

Capacity table (elevation, in feet, and contents, in acre-feet)

(Based on survey by U.S. Army Corps of Engineers in 1972)

5,500	0	5,504	41
5,501	2	5,505	69
5,502	9	5,506	109
5,503	21	5,508	244

RIO GRANDE BASIN

08317950 GALISTEO CREEK BELOW GALISTEO DAM, NM

LOCATION.--Lat 35°27'53", long 106°12'49", in NE1/4 sec.8, T.14 N., R.7 E., Santa Fe County, Hydrologic Unit 13020201, in Mesita de Juana Lopez Grant, on right bank 0.4 mi downstream from Galisteo Dam, 5.3 mi northwest of Cerrillos, and at mile 11.4.

DRAINAGE AREA.--597 mi².

PERIOD OF RECORD.--March 1970 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,450 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Dec. 21, 1981, at site 1,200 ft downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Galisteo Reservoir 0.4 mi upstream. Diversions for irrigation of about 50 acres upstream from station. Several observations of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemeter at station. No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	e1.0	e1.0	e1.7	e1.6	2.1	1.2	7.8	e.00	228	149
2	.00	.00	e.90	e1.1	e1.6	e1.4	1.4	.93	6.0	e.00	e43	31
3	.00	.00	e.90	e1.1	e1.3	e1.4	e1.4	.78	7.8	e.00	e.00	24
4	.00	.00	e.80	e1.3	e1.5	1.3	e1.3	.51	e.50	e.00	e19	19
5	.00	.00	e.80	e1.2	e1.2	1.4	e1.7	.15	e.00	e.00	117	4.7
6	.00	.00	e.90	e1.4	e1.0	1.7	e1.8	.01	e.00	e.00	129	32
7	.00	.00	e.90	e1.6	e1.0	2.1	1.9	.00	e.00	e.00	12	19
8	.00	.00	e.90	e1.7	e1.2	4.0	1.8	.03	e.00	e.00	e.00	e4.0
9	.00	.00	e.90	e1.8	e1.3	3.6	1.8	.09	e.00	e.00	e.00	e.00
10	.00	.00	e.80	e2.0	e1.5	2.6	2.6	1.4	e.00	e.00	.00	e.00
11	.00	12	e.80	e2.2	e1.7	2.3	4.2	2.7	e.00	e.00	.00	e.00
12	.00	7.5	e.80	e1.3	e1.6	3.7	2.7	2.8	e.00	e.00	.00	e.00
13	.00	8.4	e.80	e1.4	e1.8	3.6	1.8	4.8	e.00	e.00	.00	e14
14	.00	9.4	e.70	e1.4	e1.9	3.6	1.6	3.0	e.00	e.00	.02	84
15	.00	6.9	e.80	e1.5	e1.7	2.7	1.9	1.3	e.00	e.00	6.1	13
16	.00	7.6	e.80	e1.5	e1.7	2.3	1.5	1.4	e.00	e.00	4.0	4.9
17	.00	6.3	e.80	e1.6	e1.5	2.3	1.1	.84	e.00	e.00	8.7	e.90
18	.00	6.3	e.90	e1.5	e1.4	2.2	1.0	50	e.00	e.00	.78	e.00
19	.00	6.2	e1.0	e1.4	e1.4	2.5	1.2	72	e.00	e.00	.00	e.00
20	.00	5.0	e1.5	e1.5	e1.5	3.9	1.1	58	e.00	e.00	.00	e.00
21	.00	4.6	e.90	e1.6	e1.7	2.4	.97	6.3	e.00	e11	e1.7	e.00
22	.00	5.8	e.80	e1.5	e1.8	2.4	.96	2.2	e.00	143	e.30	e.00
23	.00	7.5	e.50	e1.6	e2.3	2.1	1.4	15	e.00	e21	.00	e.00
24	.00	6.3	e.00	e1.8	e1.8	1.9	1.5	5.0	e.00	e.00	9.8	e.00
25	.00	3.8	e.00	e1.8	e1.6	1.8	1.7	39	e.00	e.00	6.9	e.00
26	.00	2.6	e.50	e1.6	e1.6	2.1	1.4	162	e.00	e60	e.00	e.00
27	.00	e2.6	e1.5	e1.5	e1.7	2.8	2.0	56	e.00	305	5.3	e.00
28	.00	e4.0	e2.0	e1.5	e1.5	3.4	2.3	14	e.00	e53	2.6	e.00
29	.00	e2.0	e1.0	e1.8	---	2.6	1.8	12	e.00	e15	13	e.00
30	.00	e1.0	e.90	e1.7	---	2.1	1.6	9.7	e.00	e.00	e.00	e.00
31	.00	---	e.90	e1.8	---	2.7	---	8.7	---	e12	e.00	---
TOTAL	0.00	115.80	26.70	47.7	43.5	76.5	51.53	531.84	22.10	620.00	607.20	399.50
MEAN	.000	3.86	.86	1.54	1.55	2.47	1.72	17.2	.74	20.0	19.6	13.3
MAX	.00	12	2.0	2.2	2.3	4.0	4.2	162	7.8	305	228	149
MIN	.00	.00	.00	1.0	1.0	1.3	.96	.00	.00	.00	.00	.00
AC-FT	.00	230	53	95	86	152	102	1050	44	1230	1200	792

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1994, BY WATER YEAR (WY)

	MEAN	4.78	1.42	1.50	1.59	2.25	2.94	3.09	3.51	5.32	22.0	15.9	10.7
MAX	28.9	7.20	6.55	6.25	11.6	19.8	23.8	31.7	29.5	110	55.7	52.4	
(WY)	1982	1987	1987	1993	1993	1993	1973	1985	1979	1971	1991	1972	
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.15	.000
(WY)	1980	1980	1980	1981	1981	1981	1981	1971	1971	1987	1987	1979	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1970 - 1994

ANNUAL TOTAL	2142.15	2542.37	
ANNUAL MEAN	5.87	6.97	6.15
HIGHEST ANNUAL MEAN			12.8
LOWEST ANNUAL MEAN			1.28
HIGHEST DAILY MEAN	124	305	1170
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		1030	a2000
INSTANTANEOUS PEAK STAGE		4.75	7.33
ANNUAL RUNOFF (AC-FT)	4250	5040	4450
10 PERCENT EXCEEDS	17	9.5	8.0
50 PERCENT EXCEEDS	2.5	1.3	.50
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

a-From rating curve extended above 1,400 ft³/s.

RIO GRANDE BASIN

08319000 RIO GRANDE AT SAN FELIPE, NM
(Surveillance network station)

LOCATION.--Lat 35°26'39", long 106°26'23", in SW¼NW¼ sec.17, T.14 N., R.5 E., Sandoval County, Hydrologic Unit
Highway bridge 0.8 mi upstream from San Felipe Pueblo. 11 mi northeast of Bernalillo. and at mile 1.572.7.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1925 to current year. Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS.--WSP 1312: 1926-30, WSP 1392: 1937(M), WSP 1512: 1931-32, 1933(M), 1934-36, 1938(M).

GAGE.--Water-stage recorder. Datum of gage is 5,115.73 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 27, 1957, at site 1,800 ft downstream at datum 5.35 ft lower, except period May 16, 1945, to Sept. 30, 1946, when it was 5.94 ft lower than present datum.

REMARKS.--Water-discharge records good. Flow completely regulated since November 1973 by Cochiti Dam (station 08317300) 17 mi upstream. Prior to November 1973 some regulation of flow by El Vado Reservoir (station 08285000) and Abiquiu Reservoir (station 08286900). Since May 1971 flow affected by release of transmountain water from Heron Reservoir (station 08284510). Diversions for irrigation of about 705,000 acres upstream from station, some of which is irrigated downstream by Cochiti Eastside Main Canal and San Felipe eastside acequia, which bypass station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Other major floods occurred in 1874, 1884, and 1904.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	680	775	1320	934	876	1170	1920	3750	5060	1960	799	1040
2	690	847	1230	958	770	1220	2250	3480	5850	1230	917	1250
3	667	1110	1280	983	732	1320	2350	3490	5870	1200	883	913
4	663	1030	1240	966	795	1390	2350	3250	5110	1170	940	830
5	660	1100	1120	938	941	1510	2370	3260	3870	1100	880	744
6	684	1170	1300	925	1040	1450	2580	3850	3970	1030	926	736
7	746	1210	1370	908	899	1560	2720	4580	4730	968	886	729
8	798	1160	1400	902	843	1700	2750	4620	5400	890	939	741
9	827	1100	1370	905	886	1890	2780	4630	5910	909	689	746
10	837	1130	1310	920	912	1820	2770	4720	5740	955	684	741
11	829	1060	1370	930	897	1570	2800	5150	5080	956	694	751
12	823	1110	1400	925	895	1530	2890	5240	5090	999	692	750
13	797	1220	1450	876	874	1420	2840	5160	5140	994	695	761
14	736	1240	1320	808	844	1110	2880	5610	5340	986	751	869
15	739	1100	1330	836	843	1050	3100	5590	5620	1030	1110	797
16	741	1190	1320	843	859	1250	3100	5440	5780	1140	1340	722
17	751	1240	1270	838	909	1460	3040	5280	5760	1150	701	724
18	754	1190	1270	878	955	1550	3280	5320	5730	893	509	739
19	717	1140	1260	930	955	1590	3940	5550	5730	945	520	740
20	630	1150	1220	903	976	1660	4090	5530	5700	1030	815	736
21	626	1150	1230	876	1030	1770	4090	5690	5300	1010	934	752
22	631	1150	1310	864	999	1940	4360	6130	5660	1110	945	767
23	631	1190	1350	873	924	1940	4370	6200	5820	1050	920	748
24	633	1290	1210	894	926	1890	4700	6200	5850	800	823	799
25	631	1350	982	888	895	1880	5420	6000	5980	817	935	817
26	612	1340	925	892	835	1800	5450	5660	5920	839	926	761
27	577	1330	800	901	920	1690	5320	5220	5840	890	850	755
28	592	1190	843	908	980	1610	4640	4550	5750	824	783	750
29	623	1050	932	914	---	1610	3750	3690	4670	912	731	762
30	692	1130	929	921	---	1700	3840	3690	2980	993	754	764
31	836	---	932	913	---	1860	---	3870	---	862	771	---
TOTAL	21853	34442	37593	27950	25210	48910	102740	150400	160250	31642	25742	23734
MEAN	705	1148	1213	902	900	1578	3425	4852	5342	1021	830	791
MAX	837	1350	1450	983	1040	1940	5450	6200	5980	1960	1340	1250
MIN	577	775	800	808	732	1050	1920	3250	2980	800	509	722
AC-FT	43350	68320	74570	55440	50000	97010	203800	298300	317900	62760	51060	47080
(†)	3810	0	0	0	0	2840	4000	4240	4190	3920	3970	3800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1994, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
MEAN	647	942	1024	906	1068	1403	2417	3485	3336	1890	1057	819									
MAX	1370	2072	1969	2163	3695	3054	6126	6160	6534	5979	3667	1781									
(WY)	1987	1987	1987	1986	1986	1986	1985	1985	1983	1979	1986	1986									
MIN	289	389	500	462	552	546	378	521	746	565	596	206									
(WY)	1975	1990	1978	1977	1977	1977	1977	1977	1989	1974	1978	1974									

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1974 - 1994
ANNUAL TOTAL	718857	690466	
ANNUAL MEAN	1969	1892	a1584
HIGHEST ANNUAL MEAN			2493
LOWEST ANNUAL MEAN			547
HIGHEST DAILY MEAN	6800	Jun 5	8100
LOWEST DAILY MEAN	381	Feb 20	67
ANNUAL SEVEN-DAY MINIMUM	614	Oct 23	135
INSTANTANEOUS PEAK FLOW			b273000
INSTANTANEOUS PEAK STAGE		6.82	c11.13
INSTANTANEOUS LOW FLOW			32
ANNUAL RUNOFF (AC-FT)	1426000	1370000	1147000
10 PERCENT EXCEEDS	4300	5260	3890
50 PERCENT EXCEEDS	1220	1050	978
90 PERCENT EXCEEDS	793	740	443

a-Average discharge for 48 years (water year 1926-1973), 1,374 ft³/s, 995,500 acre-ft/yr, prior to closure of Cochiti.

b-From rating curve extended above 15,000 ft³/s.

c-Site and datum then in use.

(†) MONTHLY DIVERSIONS, IN ACRE-FEET, OF COCHITI EASTSIDE CANAL, RECORDS OF THE FLOW FURNISHED BY MIDDLE RIO GRANDE CONSERVANCY DISTRICT.

RIO GRANDE BASIN

08319000 RIO GRANDE AT SAN FELIPE, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

[illegible][illegible][illegible]

RIO GRANDE BASIN
08319000 RIO GRANDE AT SAN FELIPE, NM -- Continued
WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR BEGINS 1993 TO SEPTEMBER 1994

DATE	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)
NOV 1993												
30...	2	40	<1	<1.0	<1	<1	5	5	9	3	<1	<0.10
MAY 1994												
03...	--	20	--	--	--	--	--	--	60	--	--	--
JUN												
23...	--	20	--	--	--	--	--	--	14	--	--	--
JUL												
15...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
08...	2	30	<1	<1.0	1	<1	2	1	9	1	<1	<0.10
16...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	NITRO- GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO- GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOS- PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 1993												
30...	<0.1	<1	<1	10	<3	--	--	--	--	--	--	--
MAY 1994												
03...	--	--	--	--	--	--	--	--	--	51	476	78
JUN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
15...	--	--	--	--	--	--	--	--	--	34	92	77
SEP												
08...	<0.1	<1	<1	<10	<3	--	--	--	--	59	118	74
16...	--	--	--	--	--	2.0	1.0	200	320	--	--	--

RIO GRANDE BASIN

08323000 RIO GUADALUPE AT BOX CANYON, NEAR JEMEZ, NM

LOCATION.--Lat 35°43'52", long 106°45'44", Sandoval County, Hydrologic Unit 13020202, in Canon de San Diego Grant, on left bank at downstream end of Guadalupe Box Canyon, 4.8 mi upstream from mouth, 5 mi southwest of Jemez Springs, and 7 mi north of Jemez.

DRAINAGE AREA.--235 mi².

PERIOD OF RECORD.--November 1938 to September 1942, August 1949 to September 1950 (monthly discharge only for November, December 1938 and August 1949 published in WSP 1312), May 1951 to September 1957 (irrigation seasons only), May 1958 to September 1976, July 1981 to current year. Prior to 1951 published as "08323500 Rio Guadalupe near Jemez Springs."

REVISED RECORDS.--WSP 1712: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,015 ft above National Geodetic Vertical Datum of 1929 (plane-table survey by Topographic Division, U.S. Geological Survey, 1952). Prior to 1951, at site 2.4 mi downstream at lower datums.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated to some extent since October 1958 by San Gregorio Reservoir on Clear Creek, 24 mi upstream (capacity, 345 acre-ft), and by transmountain diversion into Rio Puerco basin for irrigation of about 300 acres in vicinity of Cuba. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	9.2	14	15	e7.0	17	48	81	56	12	13	8.9
2	6.7	9.0	13	14	e7.4	19	55	78	51	11	9.5	9.0
3	6.6	8.0	12	15	e8.2	20	60	77	48	11	9.3	11
4	6.6	8.4	13	15	e9.8	21	67	77	43	11	9.3	12
5	6.9	7.7	14	15	e9.4	29	64	103	38	10	9.7	13
6	7.7	6.8	14	14	e8.8	33	56	147	34	9.9	14	12
7	15	6.7	14	e12	e9.0	38	57	180	31	9.6	15	13
8	28	6.3	15	e11	e9.6	40	52	188	28	9.3	12	11
9	22	6.5	13	e11	e9.8	31	54	190	27	8.5	9.9	10
10	14	6.5	13	e12	e11	27	52	181	25	7.9	9.4	10
11	13	8.9	13	e11	e12	29	47	143	23	7.7	12	9.6
12	12	11	15	e11	e13	30	45	177	21	7.6	11	11
13	10	12	14	11	12	24	52	218	20	7.7	12	15
14	9.0	16	e12	10	13	30	61	255	26	7.7	14	18
15	8.3	13	e15	9.5	13	44	67	232	29	7.6	24	17
16	7.8	15	e14	8.7	13	53	77	224	19	7.1	18	12
17	8.9	12	e14	8.5	13	61	92	211	18	7.2	14	10
18	15	8.5	e13	e9.0	14	65	112	181	14	7.3	12	9.4
19	14	10	e12	e10	13	76	132	185	14	7.2	11	8.8
20	18	9.8	e12	e10	13	83	138	169	14	7.2	13	8.5
21	18	11	e12	e9.8	13	74	134	127	16	7.6	16	8.7
22	17	13	e13	e9.6	14	71	129	111	19	7.9	12	8.6
23	16	17	e14	e9.2	14	68	147	107	18	9.0	11	8.1
24	15	22	e18	e8.8	15	62	159	96	16	9.3	11	7.8
25	15	14	e25	e8.8	14	59	168	98	15	11	12	7.8
26	12	23	e19	e8.4	16	58	137	136	14	12	11	7.5
27	11	29	e12	e8.2	17	53	117	103	13	17	9.9	7.4
28	9.3	15	e14	8.0	17	46	100	85	13	16	9.1	7.2
29	9.6	15	14	e7.6	---	45	94	75	12	15	8.6	7.2
30	9.3	15	15	e7.2	---	46	85	69	12	13	8.4	7.1
31	7.6	---	16	e6.8	---	44	---	61	---	14	8.5	---
TOTAL	376.2	365.3	441	325.1	339.0	1396	2658	4365	727	306.3	369.6	306.6
MEAN	12.1	12.2	14.2	10.5	12.1	45.0	88.6	141	24.2	9.88	11.9	10.2
MAX	28	29	25	15	17	83	168	255	56	17	24	18
MIN	6.6	6.3	12	6.8	7.0	17	45	61	12	7.1	8.4	7.1
AC-FT	746	725	875	645	672	2770	5270	8660	1440	608	733	608

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1994, BY WATER YEAR (WY)

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
MEAN	19.0	19.1	16.5	15.1	17.8	57.3	194	212	56.2	20.3	22.3	19.1	19.1
MAX	57.6	56.8	31.8	27.0	33.5	119	421	471	174	31.4	40.6	47.8	47.8
(WY)	1987	1987	1987	1992	1992	1993	1992	1985	1983	1983	1988	1988	1988
MIN	10.5	8.11	7.54	7.79	7.66	22.0	77.4	25.9	12.9	9.88	11.9	8.81	8.81
(WY)	1988	1990	1990	1990	1990	1990	1990	1989	1989	1994	1994	1989	1989

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1982 - 1994
ANNUAL TOTAL	23685.4	11975.1	
ANNUAL MEAN	64.9	32.8	55.8
HIGHEST ANNUAL MEAN			101
LOWEST ANNUAL MEAN			23.5
HIGHEST DAILY MEAN	357	255	950
LOWEST DAILY MEAN	6.3	6.3	4.0
ANNUAL SEVEN-DAY MINIMUM	7.0	7.0	5.5
INSTANTANEOUS PEAK FLOW		318	b3190
INSTANTANEOUS PEAK STAGE		5.63	a8.40
INSTANTANEOUS LOW FLOW		1.9	1.9
ANNUAL RUNOFF (AC-FT)	46980	23750	40450
10 PERCENT EXCEEDS	230	88	148
50 PERCENT EXCEEDS	19	14	20
90 PERCENT EXCEEDS	11	7.8	9.9

e Estimated

a-From floodmarks, site and datum in use June 1941 to September 1942.

b-From rating curve extended above 1,000 ft³/s.

RIO GRANDE BASIN

08324000 JEMEZ RIVER NEAR JEMEZ, NM

LOCATION.--Lat 35°39'42", long 106°44'34", Sandoval County, Hydrologic Unit 13020202, in Canon de San Diego Grant, on left bank 0.7 mi downstream from Rio Guadalupe 3.5 mi north of Jemez and at mile 29.5

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1936 to May 1941, August 1949 to October 1950, May 1951 to September 1952 (irrigation seasons only), March 1953 to current year. Monthly discharge only for some periods, published in WSP 1732.

Published as Jemez Creek near Jemez, 1936-41.

REVISED RECORDS.--WSP 1712: Drainage area, WSP 1923, 1957-58.

GAGE.--Water-stage recorder. Concrete control since Dec. 6, 1965. Datum of gage is 5,622 ft above National Geodetic Vertical Datum of 1929 (plane-table survey by Topographic Division, U.S. Geological Survey, 1952). June 22, 1936, to Mar. 11, 1937, at site 60 ft upstream at datum 0.50 ft higher. Mar. 12, 1937, to July 8, 1938, at present site at datum 0.7 ft higher. July 9, 1938, to May 6, 1941, at site 60 ft upstream at datum 0.70 ft higher.

REMARKS.--Water-discharge records good. Diversion for irrigation of about 300 acres upstream from station. Several observations of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood since at least 1890 occurred between May 6 and 15, 1941, after gage was destroyed (discharge probably exceeded 6,000 ft³/s), from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	28	37	24	23	35	77	151	80	12	33	32
2	20	28	33	25	34	37	113	140	70	12	29	41
3	21	25	32	23	29	40	112	128	67	12	31	30
4	21	25	29	25	35	42	116	123	58	11	25	35
5	21	25	32	26	33	48	104	138	52	9.1	21	35
6	18	21	31	26	28	54	88	171	47	9.2	58	33
7	26	20	31	21	29	60	91	193	43	10	38	35
8	44	22	28	22	34	65	84	198	40	7.9	30	37
9	39	23	29	25	32	57	89	200	36	7.6	23	32
10	28	23	29	26	28	50	88	198	34	7.8	20	27
11	27	28	28	23	29	55	83	183	31	8.0	48	24
12	27	37	32	24	30	58	81	220	28	9.1	25	25
13	26	39	26	25	25	46	97	270	28	9.0	29	37
14	26	45	21	25	29	53	103	316	29	11	56	43
15	25	40	25	26	30	65	105	272	35	9.0	59	42
16	25	42	31	26	30	73	111	251	28	10	56	35
17	28	35	29	25	33	78	122	245	25	10	44	30
18	35	31	25	27	33	78	136	216	20	11	36	27
19	32	35	29	27	33	78	145	213	20	10	35	27
20	35	32	28	27	31	78	151	205	24	11	31	26
21	34	32	21	27	29	78	151	165	26	11	41	24
22	33	39	27	27	33	78	150	147	30	13	53	25
23	33	43	24	28	29	77	162	144	23	15	34	24
24	31	59	26	29	27	71	192	133	21	14	27	23
25	30	38	30	29	33	61	195	138	18	14	49	22
26	29	29	25	31	34	55	181	186	15	48	59	23
27	28	34	27	30	36	49	161	158	14	26	46	22
28	28	38	29	28	36	36	146	131	14	32	38	21
29	26	38	26	24	---	40	143	114	14	75	34	19
30	26	37	26	27	---	42	141	102	13	37	33	17
31	25	---	26	26	---	44	---	88	---	35	31	---
TOTAL	868	991	872	804	865	1781	3718	5537	983	516.7	1172	873
MEAN	28.0	33.0	28.1	25.9	30.9	57.5	124	179	32.8	16.7	37.8	29.1
MAX	44	59	37	31	36	78	195	316	80	75	59	43
MIN	18	20	21	21	23	35	77	88	13	7.6	20	17
AC-FT	1720	1970	1730	1590	1720	3530	7370	10980	1950	1020	2320	1730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1994, BY WATER YEAR (WY)

	MEAN	36.0	38.0	28.9	28.2	35.2	84.5	278	242	66.0	32.6	46.4	34.9
MAX	109	128	58.2	49.6	72.3	221	961	1118	274	78.5	121	95.8	
(WY)	1987	1987	1987	1992	1986	1985	1958	1973	1979	1986	1957	1991	
MIN	14.5	18.4	17.0	16.6	19.9	31.6	43.3	22.5	11.9	14.5	15.8	11.1	
(WY)	1957	1957	1957	1977	1955	1981	1955	1967	1955	1972	1956	1956	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1954 - 1994

ANNUAL TOTAL	43581	18980.7	
ANNUAL MEAN	119	52.0	79.3
HIGHEST ANNUAL MEAN			189
LOWEST ANNUAL MEAN			29.3
HIGHEST DAILY MEAN	945	Apr 12	3160
LOWEST DAILY MEAN	13	Jul 25	2.1
ANNUAL SEVEN-DAY MINIMUM	16	Jul 21	6.0
INSTANTANEOUS PEAK FLOW			a5900
INSTANTANEOUS PEAK STAGE			b10.10
INSTANTANEOUS LOW FLOW			1.2
ANNUAL RUNOFF (AC-FT)	86440	37650	57450
10 PERCENT EXCEEDS	403	137	172
50 PERCENT EXCEEDS	41	31	34
90 PERCENT EXCEEDS	25	20	18

a-From rating curve extended above 2,200 ft³/s on basis of contracted-opening measurement of peak flow.

b-Present datum.

RIO GRANDE BASIN

08324000 JEMEZ RIVER NEAR JEMEZ, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
DEC 1993 07...	1500	28	503	8.1	15.0	6.0	620	11.9	118	23	140
JUN 1994 15...	1115	35	421	8.5	26.0	18.5	619	8.2	108	14	120
JUL 21...	1130	11	764	8.5	29.5	22.5	624	6.9	98	--	170
SEP 01...	1230	32	541	8.6	28.5	20.5	625	7.8	106	--	120

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY LAB (MG/L AS CAC03) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
DEC 1993 07...	48	5.2	51	2	8.1	182	11	59	0.90	41	334
JUN 1994 15...	39	4.3	39	2	6.0	143	8.2	40	0.70	34	257
JUL 21...	55	7.0	92	3	14	213	12	110	1.2	43	463
SEP 01...	41	4.6	58	2	9.7	155	9.3	68	0.90	43	328

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)
DEC 1993 07...	<0.010	<0.050	0.020	<0.20	0.030	<0.010	1.8	47	42	520	<1
JUN 1994 15...	<0.010	<0.050	0.050	0.50	0.060	0.020	3.6	--	--	370	--
JUL 21...	--	--	--	--	--	--	--	--	--	960	--
SEP 01...	--	--	--	--	--	--	--	--	--	630	--

DATE	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)
DEC 1993 07...	<1.0	<1	<1	4	<1	33	<1	<1	<0.10	<0.1	<1
JUN 1994 15...	--	--	--	--	--	49	--	--	--	--	--
JUL 21...	--	--	--	--	--	16	--	--	--	--	--
SEP 01...	--	--	--	--	--	60	--	--	--	--	--

RIO GRANDE BASIN

08324000 JEMEZ RIVER NEAR JEMEZ, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (31145)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC 15 93										
07...	<1	<10	24	2.3	0.380	1.8	<1.0	12	0.91	58
JUN 1994										
15...	--	--	--	--	--	--	--	32	3.0	59
JUL										
21...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	--	--	--	--	--	--	--	36	3.1	77

RIO GRANDE BASIN

08328500 JEMEZ CANYON RESERVOIR NEAR BERNALILLO, NM

LOCATION.--Lat 35°23'40", Long 106°32'50", in SW¼SW¼ sec.32, T.14 N., R.4 E., Sandoval County, Hydrologic Unit 13020202, at corner of outlet works control tower of Jemez Canyon Dam on Jemez River, 2.8 mi upstream from mouth, and 6 mi north of Bernalillo.

DRAINAGE AREA.--1,034 mi².

PERIOD OF RECORD.--October 1953 to September 1965 (monthend contents only), October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Reservoir is formed by earthfill dam, completed October 19, 1953. Capacity, 172,800 acre-ft, from capacity table adapted January 1, 1992, between elevations 5,125.0 ft, sill of outlet gates, and 5,252.3 ft, operating deck of spillway. Maximum controlled capacity, 102,700 acre-ft at elevation 5,232.0 ft (floor of spillway, which is located about 0.8 mi south of dam). Capacity by original survey was 189,100 acre-ft. Original plan for reservoir operation was to desilt all flow above 30 ft/s by storage for one day before releasing to Rio Grande, and for possible detention during flood stage on Rio Grande. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Records provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 72,110 acre-ft, June 1, 1987, elevation, 5,220.24 ft; no storage most of time prior to March 1979.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 31,380 acre-ft, May 10, elevation, 5,199.47 ft; minimum contents, 21,350 acre-ft, Dec. 27, elevation, 5,192.05 ft.

Capacity table, (elevation, in feet, and contents, in acre-feet)

(Based on survey by U.S. Army Corps of Engineers in 1992)

5,193.0	22,540	5,208.0	44,810
5,198.0	29,260	5,213.0	54,080
5,203.0	36,560	5,218.0	64,720

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22110	21780	21560	21510	22570	24210	25610	29190	27390	23940	23180	21890
2	22030	21770	21530	21510	22600	24250	25800	29330	27370	23870	22840	22530
3	22010	21770	21510	21520	22810	24330	26000	29390	27300	23820	22660	22620
4	21990	21760	21510	21560	23040	24370	26110	29680	27250	23770	22660	22700
5	21930	21760	21510	21580	23150	24420	26110	30000	27180	23740	22640	22720
6	21890	21760	21500	21650	23210	24470	26100	30120	27080	23680	22700	22280
7	21890	21760	21490	21680	23200	24530	26030	30490	26970	23580	22710	21980
8	21870	21760	21490	21710	23210	24670	26020	30820	26840	23490	22620	21970
9	21860	21760	21500	21750	23210	24990	26070	31100	26690	23420	22510	21930
10	21830	21770	21500	21780	23210	25110	26170	31380	26480	23390	22450	21840
11	21830	21770	21500	21810	23210	25210	26320	30040	26230	23330	22500	21770
12	21840	21830	21510	21840	23210	25460	26430	28270	26020	23260	22590	21720
13	21840	21890	21510	21890	23210	25660	26480	27920	25800	23220	22600	21780
14	21860	21940	21500	21940	23210	25730	26580	27680	25560	23110	22720	21910
15	21840	21960	21490	21970	23210	25840	26640	27340	25340	23040	25730	21840
16	21840	21940	21460	22090	23210	25960	26580	26930	25130	22990	24570	21800
17	21860	21830	21460	22120	23210	26130	26520	26510	25030	22970	23150	21810
18	21860	21670	21460	22140	23220	26660	26440	25960	24910	22920	22430	21810
19	21870	21580	21490	22180	23220	27720	26440	25560	24850	22880	22460	21820
20	21870	21570	21490	22220	23210	28520	26490	25640	24770	22840	22430	21810
21	21880	21570	21460	22230	23210	28830	26530	25850	24770	22830	22650	21810
22	21890	21570	21420	22270	23220	28630	26730	25960	24740	22810	22500	21770
23	21890	21580	21400	22300	23220	28200	27030	26070	24670	22760	22220	21750
24	21910	21600	21390	22330	23220	27590	27360	26180	24590	22760	22210	21720
25	21930	21620	21370	22380	23220	26740	27690	26430	24500	22710	22140	21700
26	21880	21520	21360	22420	23220	26000	28040	26810	24420	22830	22130	21670
27	21860	21510	21350	22450	23220	25290	28310	27080	24280	22740	22140	21650
28	21820	21520	21410	22470	23880	25070	28520	27230	24180	22860	22080	21630
29	21800	21530	21490	22510	---	25190	28790	27330	24090	23490	22020	21620
30	21780	21560	21510	22550	---	25260	29000	27390	24010	23360	21930	21580
31	21780	---	21520	22560	---	25440	---	27400	---	23210	21890	---
MAX	22110	21960	21560	22560	23880	28830	29000	31380	27390	23940	25730	22720
MIN	21780	21510	21350	21510	22570	24210	25610	25560	24010	22710	21890	21580
(†)	5192.40	5192.22	5192.18	5193.02	5194.05	5195.22	5197.81	5196.66	5194.15	5193.53	5192.49	5192.24
(††)	-340	-220	-40	+1040	+1320	+1560	+3560	-1600	-3390	-800	-1320	-310

CAL YR 1993 MAX 33300 MIN 20870 (†) +1330
WTR YR 1994 MAX 31380 MIN 21350 (†) +540

(†) ELEVATION, IN FEET, AT END OF MONTH.
(††) CHANGE IN CONTENTS, IN ACRE-FEET.

RIO GRANDE BASIN

08329000 JEMEZ RIVER BELOW JEMEZ CANYON DAM, NM

LOCATION.--Lat 35°23'24", long 106°32'03", in NE¼ sec.5, T.13 N., R.4 E., Sandoval County, Hydrologic Unit 13020202, on right bank 0.8 mi downstream from Jemez Canyon Dam, 2.0 mi upstream from mouth, and 6 mi north of Bernalillo.

STATION NUMBER: 1,000

PERIOD OF RECORD.--March 1936 to January 1938, March 1943 to current year. Published as "Jemez Creek" prior to 1943.

REVISED RECORDS.--WSP 1178: 1949. WSP 1212: 1950. WSP 1512: 1936, 1943, 1945, 1947-48, 1949(M), 1950. WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,095.60 ft above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Apr. 24, 1951, at site 0.8 mi upstream at datum 24.51 ft higher. Apr. 24, 1951, to June 25, 1958, at site 37 ft upstream at datum 4.40 ft above present datum. Supplementary water-stage recorder at gages on Jemez Canyon Dam at datum 5,125.00 ft above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark) used at times since January 1953.

REMARKS.--Records good. Subsequent to October 1953, flow at this station can be completely regulated by Jemez Canyon Reservoir (station 08328500). However, reservoir is designed essentially for desilting and flood control rather than storage. Diversions for irrigation of about 3,000 acres upstream from station. U.S. Army Corps of Engineers satellite telemeter at station. No flow for many days.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood in 1900 was probably less than 16,000 ft³/s, but highest observed outside period of record.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	11	27	32	.76	.90	2.3	5.1	47	4.3	129	5.1
2	2.5	10	38	33	.76	.90	1.8	4.9	46	5.0	169	4.3
3	2.3	9.9	35	18	.76	.90	1.6	4.9	47	5.5	70	1.5
4	2.3	9.3	26	1.4	.76	.90	4.1	4.9	47	5.5	14	1.3
5	2.1	8.1	26	1.3	.76	.90	90	4.9	46	5.1	8.3	1.4
6	2.0	8.3	26	1.2	.76	.90	102	4.9	46	4.4	4.6	213
7	2.0	8.5	26	1.1	.80	.90	102	4.9	45	3.7	4.7	193
8	1.8	7.7	27	1.1	.90	.90	64	5.1	44	3.5	43	8.2
9	1.8	7.3	27	.92	.79	.90	26	5.3	58	3.5	55	24
10	1.8	17	27	.90	.81	.90	26	5.4	83	3.3	8.7	38
11	1.8	25	27	.90	.90	.90	25	1010	83	3.0	4.9	37
12	1.9	24	27	.90	.81	1.0	25	1310	83	2.8	4.9	20
13	2.0	24	26	.90	.76	.90	26	452	83	2.7	4.9	8.7
14	2.0	24	27	.90	.77	.90	26	459	83	2.5	5.1	39
15	1.7	43	27	.90	.81	.90	67	460	83	3.1	306	64
16	1.6	86	26	.90	.76	.90	127	463	58	3.4	681	29
17	1.6	107	26	.90	.78	.90	129	459	13	2.8	753	4.9
18	1.8	106	26	.90	.90	29	130	452	13	2.7	380	4.6
19	1.8	60	26	.90	.86	52	131	345	13	1.3	14	1.9
20	1.8	27	27	.90	.76	49	134	153	13	.55	13	.74
21	1.8	27	27	.90	.76	155	135	61	12	1.2	13	.13
22	1.7	27	27	.80	.76	366	58	59	11	1.1	249	.10
23	1.6	27	27	.76	.76	429	8.9	58	12	1.2	158	.01
24	1.6	27	26	.76	.90	438	7.6	57	12	1.3	16	.12
25	7.1	26	26	.80	.90	438	6.0	56	12	.80	72	.14
26	23	26	27	.78	.90	435	5.3	54	13	46	89	.13
27	31	26	20	.76	.90	430	5.3	52	17	38	33	.32
28	30	26	11	.76	.90	190	4.9	51	21	.00	33	.17
29	24	26	8.8	.76	---	3.2	4.9	50	22	51	34	.20
30	13	27	22	.76	---	2.9	4.9	49	14	84	25	.20
31	11	---	32	.76	---	2.5	---	48	---	83	11	---
TOTAL	185.0	888.1	803.8	108.52	22.75	3035.00	1517.5	6208.3	1180	376.25	3406.1	701.16
MEAN	5.97	29.6	25.9	3.50	.81	97.9	50.6	200	39.3	12.1	110	23.4
MAX	31	107	38	33	.90	438	135	1310	83	84	753	213
MIN	1.6	7.3	8.8	.76	.76	.90	1.6	4.9	11	.00	4.6	.01
AC-FT	367	1760	1590	215	45	6020	3010	12310	2340	746	6760	1390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1994, BY WATER YEAR (WY)

	MEAN	27.9	28.3	21.2	23.5	28.4	62.1	190	77.6	25.9	44.6	22.7
MAX	193	179	74.4	56.1	75.1	250	772	968	988	358	247	157
(WY)	1987	1958	1987	1993	1987	1985	1985	1973	1958	1987	1991	1988
MIN	.000	2.47	.20	.25	.34	13.7	5.63	.000	.000	.000	.13	.000
(WY)	1956	1989	1985	1985	1985	1981	1951	1972	1946	1947	1950	1945

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1943 - 1994

ANNUAL TOTAL	37921.22	18432.48	
ANNUAL MEAN	104	50.5	62.4
HIGHEST ANNUAL MEAN			178
LOWEST ANNUAL MEAN			10.6
HIGHEST DAILY MEAN	767	1310	3640
LOWEST DAILY MEAN	.13	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.73	.14	.00
INSTANTANEOUS PEAK FLOW			b16300
INSTANTANEOUS PEAK STAGE			a5.62
ANNUAL RUNOFF (AC-FT)	75220	36560	45210
10 PERCENT EXCEEDS	321	104	148
50 PERCENT EXCEEDS	27	8.9	18
90 PERCENT EXCEEDS	2.0	.80	.00

a-Site and datum then in use.

b-From rating curve extended above 3,000 ft³/s.

RIO GRANDE BASIN

08329700 CAMPUS WASH AT ALBUQUERQUE, NM

LOCATION.--Lat 35°05'40", long 106°37'22", in SE¼ sec.16, T.10 N., R.3 E., Bernalillo County, Hydrologic Unit 13020203, on right bank 100 ft west of southwest corner of University of New Mexico North Golf Course, 200 ft downstream from Baretas Stormwater Pumping Station outfall, 600 ft downstream from Tucker Road bridge, and 1,500 ft northeast of intersection of Lomas and University Boulevards. in Albuquerque.

DRAINAGE AREA.--3.80 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1982 to current year (no winter records).

GAGE.--Water-stage recorder and concrete-lined channel. Elevation of gage is 5,140 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Water-discharge records poor. Recording rain gage at station. Some minor streamflow may exist on days where daily mean discharges have been recorded as zero due to the sensitivity limits of the streamflow monitoring equipment.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,230 ft³/s, July 14, 1990, gage height, 4.50 ft, from rating curve developed by step-backwater analysis of channel; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 517 ft³/s, at 2310 hours Aug. 14, gage height, 2.73 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	---	.00	6.7	.00
2	.00	.00	---	---	---	---	.00	.00	---	.00	.00	.00
3	.00	.00	---	---	---	---	.00	.00	---	.00	.00	4.1
4	.00	.00	---	---	---	---	.00	.00	---	.00	.00	1.2
5	.00	.00	---	---	---	---	.00	.00	---	.00	.00	8.8
6	.00	.00	---	---	---	---	.00	.00	---	.00	.00	.00
7	2.1	.00	---	---	---	---	.00	.00	---	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	---	.00	3.6	.00
9	.00	.00	---	---	---	---	.00	.00	---	.00	.00	.00
10	.00	.00	---	---	---	---	.00	.00	---	.00	.00	3.4
11	.00	1.3	---	---	---	---	.00	---	---	.00	.00	.00
12	.00	.00	---	---	---	---	.00	---	---	.00	.00	.00
13	.00	13	---	---	---	---	.00	---	.00	.00	1.1	7.4
14	.00	.00	---	---	---	---	.00	---	.00	.00	22	2.1
15	.00	1.3	---	---	---	.00	.00	---	.00	.00	38	.00
16	.00	1.6	---	---	---	.00	.00	---	.00	.00	.00	.00
17	6.0	---	---	---	---	.00	.00	---	.00	.00	.00	.00
18	.00	---	---	---	---	.00	.00	---	.00	.00	.00	.00
19	.00	---	---	---	---	.00	.00	---	.00	.00	.00	.00
20	.00	---	---	---	---	.00	.00	---	.00	.00	.00	.00
21	.00	---	---	---	---	.00	.00	---	14	.00	3.5	.00
22	.00	---	---	---	---	.00	.00	---	.00	.00	.00	.00
23	.00	---	---	---	---	.00	.00	---	.00	1.1	.00	.00
24	.00	---	---	---	---	.00	.00	---	.00	.00	.00	.00
25	.00	---	---	---	---	.00	.00	---	.00	.00	.00	.00
26	.00	---	---	---	---	.00	.00	---	.00	.00	3.5	.00
27	.00	---	---	---	---	.00	.00	---	.00	.90	.00	.00
28	.00	---	---	---	---	.00	.00	---	.00	1.9	.00	.00
29	.00	---	---	---	---	.00	.00	---	.00	2.4	.00	.00
30	.00	---	---	---	---	.00	.00	---	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	---	---	1.1	.00	---
TOTAL	8.10	---	---	---	---	---	0.00	---	---	7.40	78.40	27.00
MEAN	.26	---	---	---	---	---	.000	---	---	.24	2.53	.90
MAX	6.0	---	---	---	---	---	.00	---	---	2.4	38	8.8
MIN	.00	---	---	---	---	---	.00	---	---	.00	.00	.00
AC-FT	.16	---	---	---	---	---	.00	---	---	15	156	54
(†)	0.46	0.97	0.04	0.00	0.24	0.44	0.08	1.54	---	---	2.27	1.51

(†) Total rainfall accumulation in inches.

RIO GRANDE BASIN

08329700 CAMPUS WASH AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD: JANUARY 1991 TO SEPTEMBER 1994

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
DEC 1993												
08...	1452	0.07	435	8.8	13.0	8.5	632	39	29	2100	95	29
JUN 1994												
29...	0745	0.14	988	9.2	24.5	20.0	635	29	2300	3300	390	120
JUL												
20...	1015	E0.20	890	10.0	25.5	26.5	636	68	K15	93	300	100
SEP												
03...	0830	0.10	973	9.6	22.5	22.0	636	20	<1	<3	380	120

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RINE, TOTAL RESI- DUAL (MG/L) (50060)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)
DEC 1993												
08...	5.4	52	2	7.3	90	69	<0.02	40	306	259	5	0.520
JUN 1994												
29...	22	65	1	--	208	210	0.04	83	760	--	14	0.240
JUL												
20...	11	61	2	13	129	200	--	84	661	546	12	--
SEP												
03...	19	65	1	12	188	220	0.03	90	790	640	7	--

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV- GRAVI- METRIC (MG/L) (00556)	ARSENIC TOTAL (UG/L AS AS) (01002)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)
DEC 1993												
08...	0.050	0.570	0.130	1.4	1.30	1.20	6.8	<0.010	6	2	6	<10
JUN 1994												
29...	0.010	0.250	<0.010	0.70	0.480	0.400	6.7	<0.010	3	<1	10	<10
JUL												
20...	<0.010	<0.050	0.030	1.9	0.570	0.440	16	<0.010	4	<1	10	<10
SEP												
03...	<0.010	0.350	0.020	0.70	0.660	0.680	8.5	<0.010	<1	<1	11	<10

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	THAL- LIUM, TOTAL RECOV- ERABLE (UG/L AS TL) (01059)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
DEC 1993												
08...	<1	<1	36	1	<0.10	2	1	<1	<10	30	6	0.00
JUN 1994												
29...	<1	2	3	<1	<0.10	<1	2	<1	<25	<10	22	0.01
JUL												
20...	<1	2	6	<1	<0.10	2	4	<1	--	20	47	--
SEP												
03...	<1	2	4	<1	<0.10	2	<1	<1	--	<10	32	0.01

RIO GRANDE BASIN

08329700 CAMPUS WASH AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	ACE- NAPHTH- ENE TOTAL (UG/L) (34205)	ACRO- LEIN TOTAL (UG/L) (34210)	ACRYLO- NITRILE TOTAL (UG/L) (34215)	ANTHRA- CENE TOTAL (UG/L) (34220)	BENZO B FLUOR- AN- THENE TOTAL (UG/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (UG/L) (34242)	BENZO- A- PYRENE TOTAL (UG/L) (34247)	DELTA BENZENE HEXA- CHLOR- IDE TOTAL (UG/L) (34259)	BIS 2- CHLORO- ETHYL ETHER TOTAL (UG/L) (34273)	BIS (2- CHLORO- ETHOXY) METHANE TOTAL (UG/L) (34278)	BIS (2- CHLORO- ISO- PROPYL) ETHER TOTAL (UG/L) (34283)	N-BUTYL BENZYL PHTHAL- ATE TOTAL (UG/L) (34292)
DEC 08...	<5.0	<20	<20	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0	<5.0
JUN 29...	<5.0	<20	<20	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0	<5.0
JUL 20...	<5.0	<20	<20	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0	<5.0
SEP 03...	<5.0	<20	<20	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0	<5.0
DATE	CHLORO- BENZENE TOTAL (UG/L) (34301)	CHLORO- ETHANE TOTAL (UG/L) (34311)	CHRY- SENE TOTAL (UG/L) (34320)	DIETHYL PHTHAL- ATE TOTAL (UG/L) (34336)	DI- METHYL PHTHAL- ATE TOTAL (UG/L) (34341)	ENDO- SULFAN SULFATE TOTAL (UG/L) (34351)	ENDO- SULFAN BETA TOTAL (UG/L) (34356)	ENDO- SULFAN- I WATER WHOLE REC TOTAL (UG/L) (34361)	ENDRIN ALDE- HYDE TOTAL (UG/L) (34366)	ETHYL- BENZENE TOTAL (UG/L) (34371)	FLUOR- ANTHENE TOTAL (UG/L) (34376)	FLUOR- ENE TOTAL (UG/L) (34381)
DEC 08...	<0.20	<0.2	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	<0.2	<5.0	<5.0
JUN 29...	<0.20	<0.2	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	<0.2	<5.0	<5.0
JUL 20...	<0.20	<0.2	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	<0.2	<5.0	<5.0
SEP 03...	<0.20	<0.2	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	<0.2	<5.0	<5.0
DATE	HEXA- CHLORO- CYCLO- PENT- ADIENE TOTAL (UG/L) (34386)	HEXA- CHLORO- ETHANE TOTAL (UG/L) (34396)	INDENO (1,2,3- CD) PYRENE TOTAL (UG/L) (34403)	ISO- PHORONE TOTAL (UG/L) (34408)	METHYL- BROMIDE TOTAL (UG/L) (34413)	METHYL- CHLO- RIDE TOTAL (UG/L) (34418)	METHYL- ENE CHLO- RIDE TOTAL (UG/L) (34423)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (UG/L) (34428)	N-NITRO -SODI- PHENY- LAMINE TOTAL (UG/L) (34433)	N-NITRO -SODI- METHY- LAMINE TOTAL (UG/L) (34438)	NITRO- BENZENE TOTAL (UG/L) (34447)	PARA- CHLORO- META CRESOL TOTAL (UG/L) (34452)
DEC 08...	<5.0	<5.0	<10.0	<5.0	<0.2	<0.2	<0.2	<5.0	<5.0	<5.0	<5.0	<30.0
JUN 29...	<5.0	<5.0	<10.0	<5.0	<0.2	<0.2	<0.2	<5.0	<5.0	<5.0	<5.0	<30.0
JUL 20...	<5.0	<5.0	<10.0	<5.0	<0.2	<0.2	<0.2	<5.0	<5.0	<5.0	<5.0	<30.0
SEP 03...	<5.0	<5.0	<10.0	<5.0	<0.2	<0.2	<0.2	<5.0	<5.0	<5.0	<5.0	<30.0
DATE	PHENAN- THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L) (34511)	ETHANE, 1,1,2,2 TETRA- CHLORO- WAT UNF REC TOTAL (UG/L) (34516)	BENZOGH I PERYL ENE1,12 -BENZOP ERYLENE TOTAL (UG/L) (34521)	BENZO A ANTHRAC ENE1,2- BENZANT HRACENE TOTAL (UG/L) (34526)	BENZENE O- CHLORO- WATER UNFLTRD REC TOTAL (UG/L) (34536)
DEC 08...	<5.0	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<10.0	<10.0	<5.0
JUN 29...	<5.0	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<10.0	<10.0	<5.0
JUL 20...	<5.0	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<10.0	<10.0	<5.0
SEP 03...	<5.0	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<10.0	<10.0	<5.0

RIO GRANDE BASIN

08329700 CAMPUS WASH AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	1,2- TRANSDI- CHLORO- ETHENE TOTAL (UG/L) (34546)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (UG/L) (34556)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	2- CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L) (34576)	2- CHLORO- NAPH- THALENE TOTAL (UG/L) (34581)	2- CHLORO- PHENOL TOTAL (UG/L) (34586)	2- NITRO- PHENOL TOTAL (UG/L) (34591)	DI-N- OCTYL PHTHAL- ATE TOTAL (UG/L) (34596)	2,4-DI- CHLORO- PHENOL TOTAL (UG/L) (34601)
DEC 08...	<0.2	<0.2	<5.0	<10.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<10.0	<5.0
JUN 29...	<0.2	<0.2	<5.0	<10.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<10.0	<5.0
JUL 20...	<0.2	<0.2	<5.0	<10.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<10.0	<5.0
SEP 03...	<0.2	<0.2	<5.0	<10.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<10.0	<5.0

DATE	2,4-DI- METHYL- PHENOL TOTAL (UG/L) (34606)	2,4-DI- NITRO- TOLUENE TOTAL (UG/L) (34611)	2,4,6- DI- NITRO- PHENOL TOTAL (UG/L) (34616)	2,4,6- TRI- CHLORO- PHENOL TOTAL (UG/L) (34621)	2,6-DI- NITRO- TOLUENE TOTAL (UG/L) (34626)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (UG/L) (34631)	4- BROMO- PHENYL ETHER TOTAL (UG/L) (34636)	4- CHLORO- PHENYL ETHER TOTAL (UG/L) (34641)	4- NITRO- PHENOL TOTAL (UG/L) (34646)	4,6- DINITRO- -ORTHO- CRESOL TOTAL (UG/L) (34657)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)	AROCLOR 1016 PCB TOTAL (UG/L) (34671)
DEC 08...	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	<0.2	<0.1
JUN 29...	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	<0.2	<0.1
JUL 20...	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	<0.2	<0.1
SEP 03...	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	<0.2	<0.1

DATE	PHENOL (C6H- 5OH) TOTAL (UG/L) (34694)	NAPHTH- ALENE TOTAL (UG/L) (34696)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34699)	CIS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34704)	PENTA- CHLORO- PHENOL TOTAL (UG/L) (39032)	CHLOR- DANE CIS WATER WHOLE TOTAL (UG/L) (39062)	CHLOR- DANE TRANS WATER WHOLE TOTAL (UG/L) (39065)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (UG/L) (39100)	DI-N- BUTYL PHTHAL- ATE TOTAL (UG/L) (39110)	BENZI- DINE TOTAL (UG/L) (39120)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)
DEC 08...	<5.0	<5	<0.2	<0.2	<30.0	<0.10	<0.10	41.0	<5.0	<40.0	<0.2	<0.2
JUN 29...	<5.0	<5	<0.2	<0.2	<30.0	<0.10	<0.10	<5.0	<5.0	<40.0	<0.2	<0.2
JUL 20...	<5.0	<5	<0.2	<0.2	<30.0	<0.10	<0.10	<5.0	<5.0	<40.0	<0.2	<0.2
SEP 03...	<5.0	<5	<0.2	<0.2	<30.0	<0.10	<0.10	<5.0	<5.0	<40.0	<0.2	<0.2

DATE	P,P' DDT TOTAL (UG/L) (39300)	P,P' DDD TOTAL (UG/L) (39310)	P,P' DDE TOTAL (UG/L) (39320)	ALDRIN, BHC TOTAL (UG/L) (39330)	ALPHA BHC TOTAL (UG/L) (39337)	BETA BENZENE HEXA- CHLOR- IDE TOTAL (UG/L) (39338)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE TOTAL (UG/L) (39350)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	TOX- APHENE, TOTAL (UG/L) (39400)	HEPTA- CHLOR, TOTAL (UG/L) (39410)
DEC 08...	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2	<0.030
JUN 29...	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2	<0.030
JUL 20...	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2	<0.030
SEP 03...	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2	<0.030

RIO GRANDE BASIN

08329700 CAMPUS WASH AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	AROCLOR 1221 PCB TOTAL (UG/L) (39488)	AROCLOR 1232 PCB TOTAL (UG/L) (39492)	AROCLOR 1242 PCB TOTAL (UG/L) (39496)	AROCLOR 1248 PCB TOTAL (UG/L) (39500)	AROCLOR 1254 PCB TOTAL (UG/L) (39504)	AROCLOR 1260 PCB TOTAL (UG/L) (39508)	HEXA- CHLORO- BENZENE TOTAL (UG/L) (39700)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L) (39702)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L) (77093)	STYRENE TOTAL (UG/L) (77128)	1,1-DI CHLORO- PRO- PENE, WH TOTAL (UG/L) (77168)
DEC 08...	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	<5	<0.2	<0.2	<0.2
JUN 29...	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	<5	<0.2	<0.2	<0.2
JUL 20...	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	<5	<0.2	<0.2	<0.2
SEP 03...	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	<5	<0.2	<0.2	<0.2

DATE	2,2-DI CHLORO- PRO- PANE WAT, WH TOTAL (UG/L) (77170)	1,3-DI- CHLORO- PROPANE WAT, WH TOTAL (UG/L) (77173)	PSEUDO- CUMENE WATER UNFLTRD REC (UG/L) (77222)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	MESIT- YLENE WATER UNFLTRD REC (UG/L) (77226)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	METHANE BROMO- CHLORO- WAT UNFLTRD REC (UG/L) (77297)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE SEC BUTYL- WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT- BUTYL- WATER UNFLTRD REC (UG/L) (77353)
DEC 08...	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
JUN 29...	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
JUL 20...	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
SEP 03...	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20

DATE	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356)	123-TRI CHLORO- PROPANE WATER WHOLE TOTAL (UG/L) (77443)	ETHANE, 1112- TETRA- CHLORO- WAT UNF REC (UG/L) (77562)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL ETHER TERT- BUTYL WAT UNF REC (UG/L) (78032)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	BROMO- BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	DIBROMO CHLORO- PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (UG/L) (82626)	SAM- PLING METHOD, CODES (82398)
DEC 08...	<0.20	<0.2	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0	<5.0	--
JUN 29...	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.2	<1.0	<5.0	70
JUL 20...	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.2	<1.0	<5.0	--
SEP 03...	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.2	<1.0	<5.0	--

RIO GRANDE BASIN

08329835 NORTH FLOODWAY CHANNEL AT ALBUQUERQUE, NM

LOCATION.--Lat 35°07'03", long 106°36'42", in SE¼ sec.3, T.10 N., R.3 E., Bernalillo County, Hydrologic Unit

Boulevard. NE. and 3.000 ft downstream from confluence of Campus Wash and Embudo Arroyo in Albuquerque.

DRAINAGE AREA.--40.0 mi².

PERIOD OF RECORD.--May 1982 to current year (no winter records).

GAGE.--Water-stage recorder and concrete-lined channel. Elevation of gage is 5,110 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. Some minor streamflow may exist on days where daily mean discharges have been recorded as zero due to the sensitivity limits of the streamflow monitoring equipment.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,250 ft³/s, July 9, 1988, gage height, 12.10 ft, from floodmarks from step-backwater analysis of channel; no flow most of time.EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,670 ft³/s, at 1630 hours May 11, gage height, 8.50 ft; no flow most of time.DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	3.6	.00	122	.00
2	.00	.00	---	---	---	---	.00	.00	.00	.55	25	.00
3	.00	.00	---	---	---	---	.00	.00	.00	.00	6.7	63
4	.00	.00	---	---	---	---	.00	.00	.00	.00	.79	52
5	.00	.00	---	---	---	---	.00	.00	.00	.00	---	142
6	.00	.00	---	---	---	---	.00	.00	.00	.00	---	3.4
7	47	.00	---	---	---	---	.00	.00	.00	.00	---	17
8	.00	.00	---	---	---	---	.00	.00	.00	.00	78	.00
9	.00	.00	---	---	---	---	.00	.00	.00	.00	19	.00
10	.00	.00	---	---	---	---	.79	34	.00	.00	5.4	11
11	.00	22	---	---	---	---	2.0	175	.00	.00	11	.00
12	.00	9.8	---	---	---	---	.00	65	.00	.00	.00	.00
13	.00	96	---	---	---	---	.00	34	.00	.00	17	65
14	.00	6.6	---	---	---	---	.00	1.1	.00	.00	90	48
15	.00	5.6	---	---	---	---	.00	.00	.00	.94	635	.00
16	.00	48	---	---	---	2.9	.00	.00	.00	.00	9.1	.00
17	78	---	---	---	---	1.6	.00	.00	.00	.99	.00	.00
18	---	---	---	---	---	.25	.00	.00	39	.00	.00	.00
19	8.6	---	---	---	---	6.8	.00	.00	19	.00	.00	.00
20	.00	---	---	---	---	25	.00	.00	.00	5.2	.00	.00
21	.00	---	---	---	---	.00	.00	.00	193	81	50	.00
22	.00	---	---	---	---	.00	.00	25	.00	11	.00	.00
23	.00	---	---	---	---	.00	.00	6.9	.00	13	.00	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
25	.00	---	---	---	---	.00	.00	113	.00	3.5	4.0	.00
26	3.1	---	---	---	---	.00	.00	151	.00	2.6	37	.00
27	.00	---	---	---	---	4.8	.00	11	.00	7.0	9.9	.00
28	.00	---	---	---	---	.00	.00	1.1	.00	55	.00	.00
29	.00	---	---	---	---	.00	.00	.00	.00	18	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.00	1.2	.00	.00
31	.00	---	---	---	---	.00	---	14	---	46	1.3	---
TOTAL	---	---	---	---	---	---	2.79	631.10	254.60	245.98	---	401.40
MEAN	---	---	---	---	---	---	.093	20.4	8.49	7.93	---	13.4
MAX	---	---	---	---	---	---	2.0	175	193	81	---	142
MIN	---	---	---	---	---	---	.00	.00	.00	.00	---	.00
AC-FT	---	---	---	---	---	---	5.5	1250	505	488	---	796

RIO GRANDE BASIN

08329838 SOUTH FORK HAHN ARROYO AT ALBUQUERQUE, NM

LOCATION.--Lat 35°07'16", Long 106°34'06", in NE¼SE¼ sec. 1, T.10 N., R.3 E., Bernalillo County, Hydrologic Unit 13020203, on left bank 300 ft. above Louisiana Boulevard, 900 ft south of Comanche Rd, and 1,700 ft north of Candelaria Rd, in Albuquerque.

DRAINAGE AREA.--2.03 mi².

PERIOD OF RECORD.--June 1978 to December 1983, June 1992 to current year (no winter record).

GAGE.--Water-stage recorder and concrete lined channel. Elevation of gage is 5,300 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to 1983 at site 300 ft downstream on Louisiana Boulevard bridge, at different datum.

REMARKS.--Records good. Some minor streamflow may exist on days where daily mean discharges have been recorded as zero due to the sensitivity limits of the streamflow monitoring equipment. Recording rain gage at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 574 ft³/s, May 11, 1994, gage height, 4.42 ft, from step-backwater analysis of concrete lined stream channel; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 574 ft³/s, at 1635 hours, May 11, gage height, 4.42 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	1.7	.00	.00	.14	6.5	.54
2	.00	.00	---	---	---	---	1.7	.00	.00	.00	.56	.62
3	.00	.00	---	---	---	---	.00	.00	.00	.00	2.3	3.1
4	.00	.00	---	---	---	---	.00	.00	.00	.09	.36	1.5
5	.00	.00	---	---	---	---	.00	.00	.00	1.0	.35	3.1
6	.00	.00	---	---	---	---	.00	.00	.20	4.7	.36	1.2
7	2.1	.00	---	---	---	---	.00	.00	.43	.19	.53	.51
8	.00	.00	---	---	---	---	2.4	.00	.26	2.5	3.8	.42
9	.00	3.7	---	---	---	---	5.7	.00	.22	.00	7.2	.38
10	.00	.00	---	---	---	---	.14	1.8	.21	.50	.36	12
11	.00	1.3	---	---	---	---	2.1	19	.09	.30	.37	4.3
12	.00	.00	---	---	---	---	.00	2.2	.26	.22	.46	.37
13	.05	5.0	---	---	---	---	.00	1.5	.47	2.0	.48	3.1
14	.00	.89	---	---	---	---	.00	.00	.18	.17	12	1.1
15	.00	.82	---	---	---	---	.00	.00	.20	.30	16	.07
16	.00	2.8	---	---	---	---	.00	.00	.15	.30	.49	.28
17	3.3	---	---	---	---	.00	.00	.00	.22	.27	.69	.32
18	.69	---	---	---	---	.24	.56	.00	.87	.23	.70	.21
19	.28	---	---	---	---	.13	.00	.00	.90	4.0	.64	1.4
20	.00	---	---	---	---	2.5	.00	.00	.25	1.2	1.4	.12
21	.00	---	---	---	---	.00	.18	.00	8.0	15	.73	.11
22	.00	---	---	---	---	.00	.00	.52	.54	.81	.54	.29
23	.00	---	---	---	---	4.3	.11	.14	.08	.36	.57	.10
24	.00	---	---	---	---	.13	.00	.00	.00	.42	.53	3.7
25	.00	---	---	---	---	.19	.00	5.1	.00	.24	.50	.14
26	.00	---	---	---	---	.07	.00	8.7	.00	.31	2.2	2.7
27	.00	---	---	---	---	.83	.00	.10	.10	.29	.68	.22
28	.00	---	---	---	---	.00	.00	.00	.00	6.4	.73	.19
29	.00	---	---	---	---	.00	.00	.43	.06	.86	.54	.22
30	.00	---	---	---	---	.00	.00	.00	.08	.24	.54	.11
31	.00	---	---	---	---	.48	---	.26	---	7.4	.32	---
TOTAL	6.42	---	---	---	---	---	14.59	39.75	13.77	50.44	63.43	42.42
MEAN	.21	---	---	---	---	---	.49	1.28	.46	1.63	2.05	1.41
MAX	3.3	---	---	---	---	---	5.7	19	8.0	15	16	12
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.32	.07
AC-FT	13	---	---	---	---	---	29	79	27	100	126	84
(†)	0.59	1.24	0.21	0.89	1.29	0.75	1.08	2.67	---	---	1.49	1.53

(†) Total rainfall accumulation in inches.

RIO GRANDE BASIN

08329839 NORTH FORK HAHN ARROYO AT ALBUQUERQUE, NM

LOCATION.--Lat 35°07'35", long 106°34'06", in NE¼SE¼ sec. 1, T.10 N., R.3 E., Bernalillo County, Hydrologic Unit 2000000, on right bank 200 ft above Louisiana Boulevard, 1.150 ft north of Comanche Rd. and 1.450 ft south of Montgomery Boulevard, in Albuquerque.

DRAINAGE AREA.--1.51 mi².

PERIOD OF RECORD.--May 1979 to December 1983, June 1992 to current year (no winter records).

GAGE.--Water-stage recorder and concrete lined channel. Elevation of gage is 5,290 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to 1983 at site 200 ft downstream on Louisiana Boulevard bridge, at different datum.

REMARKS.--Records poor. Some minor streamflow may exist on days where daily mean discharges have been recorded as zero due to the sensitivity limits of the streamflow monitoring equipment. Recording rain gage at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 439 ft³/s, Aug. 14, 1980, gage height, 1.94 ft, from step-backwater analysis of concrete lined stream channel; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11 ft³/s, at 1950 hours, Aug. 1, gage height, 1.44 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	.00	.00	.13	.00
2	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
3	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.02
4	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
5	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.03
6	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.02
7	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	.00	.00	.05	.00
9	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
10	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
11	.00	.00	---	---	---	---	.00	.10	.00	.00	.00	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.01
13	.00	.02	---	---	---	---	.00	.01	.00	.00	.00	.03
14	.00	.00	---	---	---	---	.00	.00	.00	.00	.04	.00
15	.00	.00	---	---	---	---	.00	.00	.00	.00	.19	.00
16	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
17	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
18	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
19	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
20	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
21	.00	---	---	---	---	---	.00	.00	.01	.03	.00	.00
22	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
23	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
24	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
25	.00	---	---	---	---	---	.00	.04	.00	.00	.00	.00
26	.00	---	---	---	---	---	.00	.06	.00	.00	.00	.00
27	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
28	.00	---	---	---	---	---	.00	.00	.00	.01	.00	.00
29	.00	---	---	---	---	---	.00	.00	.00	.01	.00	.00
30	.00	---	---	---	---	---	.00	.00	.00	.01	.00	.00
31	.00	---	---	---	---	---	---	.00	---	.00	.00	---
TOTAL	0.00	---	---	---	---	---	0.00	0.21	0.01	0.06	0.41	0.11
MEAN	.000	---	---	---	---	---	.000	.007	.000	.002	.013	.004
MAX	.00	---	---	---	---	---	.00	.10	.01	.03	.19	.03
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	.4	.02	.1	.8	.2
(†)	0.06	0.28	0.13	0.04	0.15	0.29	0.00	1.07	0.27	0.67	2.12	1.11

(†) Total rainfall accumulation in inches.

RIO GRANDE BASIN

08329840 HAHN ARROYO AT ALBUQUERQUE, NM

LOCATION.--Lat 35°07'34", long 106°35'26", in SE¼NE¼ sec.2, T.10 N., R.3 E., Bernalillo County, Hydrologic Unit 13020203, 860 ft below San Mateo Boulevard Bridge on right bank, 750 ft north of Comanche Road, and 2,050 ft south of Montgomery Boulevard in Albuquerque.

DRAINAGE AREA.--4.23 mi².

PERIOD OF RECORD.--June 1978 to current year (no winter records).

GAGE.--Water-stage recorder and concrete-lined channel. Elevation of gage is 5,400 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to 1992 at site on downstream side of San Mateo Boulevard Bridge, at different datum.

REMARKS.--Records fair. Some minor streamflow may exist on days where daily mean discharges have been recorded as zero due to the sensitivity limits of the streamflow monitoring equipment. Recording rain gage at station. Development within basin is predominantly residential, but there are some commercial areas. See tabulation below for monthly precipitation in inches.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,080 ft³/s, Aug. 14, 1980, gage height, 2.54 ft, from rating curve extended above 10 ft³/s on basis of step-forward analysis of channel; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 377 ft³/s, at 1830 hours May 11, gage height, 1.62 ft, from rating curve extended above 10 ft³/s on basis of step-forward analysis of channel; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	1.3	.00	.00	---	19	.00
2	.00	.00	---	---	---	---	1.7	.78	.00	---	48	.00
3	.00	.00	---	---	---	---	.00	1.3	.00	---	.00	8.1
4	.00	.00	---	---	---	---	.00	1.6	.00	---	.00	16
5	.00	.00	---	---	---	---	.00	1.7	.00	---	.00	11
6	.00	.00	---	---	---	---	.00	1.4	.00	---	.00	4.1
7	2.8	.00	---	---	---	---	.00	3.3	.59	---	.00	4.7
8	.00	.00	---	---	---	---	.00	.00	.75	---	9.4	.00
9	.00	4.0	---	---	---	---	1.5	.67	.68	---	.00	.00
10	.00	.00	---	---	---	---	.00	6.3	.00	---	1.1	.00
11	.00	1.2	---	---	---	---	1.3	128	.00	---	.72	.00
12	.00	.00	---	---	---	---	.00	89	.50	---	1.0	.00
13	.00	5.6	---	---	---	---	.00	5.1	.59	---	1.1	11
14	.00	.00	---	---	---	---	.00	.00	.00	---	5.2	11
15	.00	.63	---	---	---	---	.00	.00	.00	---	61	.00
16	.00	1.5	---	---	---	---	1.3	.00	.00	---	.00	.00
17	6.7	---	---	---	---	---	.00	.89	.00	---	.00	.00
18	.00	---	---	---	---	---	.94	1.9	.00	---	.00	.00
19	.00	---	---	---	---	---	2.6	.00	.00	2.3	.00	.00
20	.00	---	---	---	---	---	5.8	.00	.00	1.2	.00	.00
21	.00	---	---	---	---	.57	1.1	.00	9.1	32	3.4	.00
22	.00	---	---	---	---	.55	2.3	5.3	1.7	33	.00	.00
23	.00	---	---	---	---	9.9	1.1	2.6	---	.00	.00	.00
24	.00	---	---	---	---	3.6	1.8	.00	---	.00	.00	.00
25	.00	---	---	---	---	.61	3.7	11	---	.00	.00	.00
26	.00	---	---	---	---	.00	.00	11	---	.00	5.1	.00
27	.00	---	---	---	---	2.8	7.0	.00	---	.00	.00	.00
28	.00	---	---	---	---	.00	2.4	.00	---	5.7	.00	.00
29	.00	---	---	---	---	.00	1.5	.00	---	7.5	.00	.00
30	.00	---	---	---	---	.00	3.4	.00	---	2.0	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	3.3	.00	---
TOTAL	9.50	---	---	---	---	---	34.19	269.05	---	---	155.02	65.90
MEAN	.31	---	---	---	---	---	1.14	8.68	---	---	5.00	2.20
MAX	6.7	---	---	---	---	---	7.0	128	---	---	61	16
MIN	.00	---	---	---	---	---	.00	.00	---	---	.00	.00
AC-FT	19	---	---	---	---	---	68	534	---	---	307	131
(†)	0.39	0.95	0.00	0.02	0.21	0.26	0.00	---	---	0.65	2.77	1.55

(†) Total rainfall accumulation in inches.

RIO GRANDE BASIN

08329860 GRANT LINE ARROYO AT VILLA DEL OSO AT ALBUQUERQUE, NM

LOCATION.--Lat 35°08'04", long 106°34'16", in SE¼SE¼ sec.36, T.11 N., R.3 E., Bernalillo County, Hydrologic Unit 13020203, on left bank of rock-lined channel, and 60 ft west of northwest corner of apartment parking lot at 4215

DISCHARGE GAGE, 1976-1994

PERIOD OF RECORD.--June 1976 to current year (no winter records).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 5,300 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair. Recording rain gage at station. Development within basin is predominantly residential. See tabulation below for monthly precipitation in inches. No flow most of time.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13 ft³/s, Aug. 13, 1993, gage height, 1.76 ft, from rating curve extended above 5.0 ft³/s on basis of slope-area measurements at gage height 2.08; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13 ft³/s, at 1920 hours Aug. 1, gage height, 1.75 ft. No flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	.00	.00	.34	---
2	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
3	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
4	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
5	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
6	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
7	.01	.00	---	---	---	---	.00	.00	.00	.00	.00	---
8	.00	.00	---	---	---	---	.00	.00	.00	.00	.14	---
9	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
10	.00	.00	---	---	---	---	.00	.01	.00	.00	.00	---
11	.00	.00	---	---	---	---	.00	.17	.00	.00	.00	---
12	.00	.00	---	---	---	---	.00	.01	.00	.00	.00	---
13	.00	.09	---	---	---	---	.00	.02	.00	.00	.00	---
14	.00	.01	---	---	---	---	.00	.00	.00	.00	.15	.00
15	.00	.00	---	---	---	---	.00	.00	.00	.00	.62	.00
16	.00	.03	---	---	---	.00	.00	.00	.00	.00	.00	.00
17	.01	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
19	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
20	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
21	.00	---	---	---	---	.00	.00	.00	.04	.11	.01	.00
22	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
23	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
25	.00	---	---	---	---	.00	.00	.05	.00	.00	---	.00
26	.00	---	---	---	---	.00	.00	.11	.00	.00	---	.00
27	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.01	---	.00
29	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
31	.00	---	---	---	---	.00	---	.00	---	.00	---	---
TOTAL	0.02	---	---	---	---	---	0.00	0.37	0.04	0.12	---	---
MEAN	.001	---	---	---	---	---	.000	.012	.001	.004	---	---
MAX	.01	---	---	---	---	---	.00	.17	.04	.11	---	---
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	---	---
AC-FT	.04	---	---	---	---	---	.00	.7	.08	.2	---	---
(†)	0.40	---	---	---	---	---	---	2.01	0.25	0.65	3.12	1.66

(†) Total rainfall accumulation in inches.

RIO GRANDE BASIN

08329872 PINO ARROYO AT VENTURA BOULEVARD AT ALBUQUERQUE, NM.

LOCATION.--Lat 35°08'40", long 106°32'50", Bernalillo County, Hydrologic Unit 132020203, in Elena Gallegos Grant, on left bank in Tanoan Country Club, and 30 ft upstream from Ventura Boulevard in Albuquerque.

DRAINAGE AREA.--5.40 mi².

PERIOD OF RECORD.--August 1990 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 5,490 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 126 ft³/s, July 23, 1992, gage height, 1.98 ft, from rating curve extended above 12 ft³/s on basis of slope-area measurement of peak flow; no flow part of many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 78 ft³/s, at 2350 hours Aug. 14, gage height, 1.70 ft, from rating curve extended above 12 ft³/s on basis of slope-area measurement of peak flow; no flow part of many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.05	---	---	---	---	.12	.15	.08	.13	.59	---
2	.03	.05	---	---	---	---	.21	.23	.08	.10	.05	---
3	.04	.03	---	---	---	---	.21	.23	.09	.10	.05	---
4	.04	.04	---	---	---	---	.35	.23	.08	.09	.08	.22
5	.05	.05	---	---	---	---	.43	.25	.07	.10	.43	.34
6	.06	.04	---	---	---	---	.38	.19	.08	.11	.08	.10
7	.48	.02	---	---	---	---	.18	.07	.08	.10	.05	.08
8	.04	.03	---	---	---	---	.18	.08	.08	.12	.56	.07
9	.05	.01	---	---	---	---	.18	.11	.10	.16	.02	.09
10	.06	.00	---	---	---	---	.24	.73	.11	.17	.03	.18
11	.04	.14	---	---	---	---	.26	---	.10	.26	.02	.09
12	.05	.34	---	---	---	---	.12	---	.12	.17	.02	.11
13	.04	1.2	---	---	---	---	.13	---	.11	.08	.03	.80
14	.05	.16	---	---	---	---	.21	---	.12	.10	1.6	1.5
15	.06	.15	---	---	---	---	.20	---	.12	.10	6.2	1.2
16	.06	.33	---	---	---	.07	.16	---	.12	.10	.04	.34
17	.30	---	---	---	---	.07	.09	---	.13	.13	.02	.14
18	.11	---	---	---	---	.09	.11	---	.19	.09	.03	.08
19	.06	---	---	---	---	.11	.11	---	.18	.07	.03	.05
20	.05	---	---	---	---	.29	.11	---	.18	.32	.04	.08
21	.04	---	---	---	---	.07	.13	---	2.1	---	.31	.05
22	.02	---	---	---	---	.07	.13	---	.30	---	.05	.05
23	.03	---	---	---	---	.16	.18	---	.13	---	.05	.08
24	.02	---	---	---	---	.18	.14	---	.11	---	.05	.14
25	.03	---	---	---	---	.32	.11	---	.11	---	.07	.09
26	.05	---	---	---	---	.40	.13	---	.11	---	---	.09
27	.06	---	---	---	---	.20	.08	---	.11	---	---	.12
28	.06	---	---	---	---	.10	.13	.06	.12	---	---	.11
29	.07	---	---	---	---	.12	.12	.07	.13	.18	---	.18
30	.06	---	---	---	---	.24	.15	.08	.14	.01	---	.25
31	.05	---	---	---	---	.15	---	.09	---	.03	---	---
TOTAL	2.19	---	---	---	---	---	5.28	---	5.58	---	---	---
MEAN	.071	---	---	---	---	---	.18	---	.19	---	---	---
MAX	.48	---	---	---	---	---	.43	---	2.1	---	---	---
MIN	.02	---	---	---	---	---	.08	---	.07	---	---	---
AC-FT	4.3	---	---	---	---	---	10	---	11	---	---	---

RIO GRANDE BASIN

08329873 HOFFMANTOWN CHURCH OUTLET NO. 1 AT ALBUQUERQUE, NM.

LOCATION.--Lat 35°08'50", long 106°33'00", Bernalillo County, Hydrologic Unit 132020203, in Elena Gallegos Grant, on right bank at drainage outlet of east parking lot of Hoffmantown Baptist Church, at northern boundary of

PERIOD OF RECORD.--August 1990 to current year (no winter records).

GAGE.--Water-stage recorder and Palmer-Bowlius flume. Elevation of gage is 5,490 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18 ft³/s, Aug. 1, 1993, gage height, 1.86 ft; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.8 ft³/s, at 1900 hours July 28, gage height, 1.34 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	.01	.00	.05	.00
2	.00	.00	---	---	---	---	.00	.00	.01	.00	.04	.00
3	.00	.00	---	---	---	---	.00	.00	.01	.00	.00	.09
4	.00	.00	---	---	---	---	.00	.00	.01	.00	.00	.04
5	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.04
6	.00	.00	---	---	---	---	.00	.00	.00	.00	.01	.02
7	.05	.00	---	---	---	---	.00	.00	.00	.00	.00	.02
8	.00	.00	---	---	---	---	.00	.00	.00	.01	.02	.00
9	.00	.00	---	---	---	---	.00	.00	.00	.00	.01	.00
10	.00	.00	---	---	---	---	.00	.04	e.00	.00	.00	.02
11	.00	.02	---	---	---	---	.00	.19	e.00	.00	.00	.01
12	.00	.00	---	---	---	---	.00	.04	e.00	.00	.00	.00
13	.00	.11	---	---	---	---	.00	.04	e.00	.01	.00	.15
14	.00	.01	---	---	---	---	.00	.00	e.00	.01	.08	.06
15	.00	.00	---	---	---	---	.00	.00	e.00	.01	.28	.00
16	.00	.03	---	---	---	.00	.00	.01	.00	.01	.00	.00
17	.03	---	---	---	---	.00	.00	.01	.00	.01	.00	.00
18	.00	---	---	---	---	.00	.00	.01	.00	.00	.00	.00
19	.00	---	---	---	---	.00	.00	.01	.00	.00	.00	.00
20	.00	---	---	---	---	.01	.00	.01	.00	.03	.00	.00
21	.00	---	---	---	---	.00	.02	.01	.14	.23	.03	.00
22	.00	---	---	---	---	.00	.00	.03	.00	.03	.00	.00
23	.00	---	---	---	---	.00	.00	.01	.00	.01	.00	.00
24	.00	---	---	---	---	.00	.00	.00	.01	.02	.00	.00
25	.00	---	---	---	---	.00	.00	.10	.00	.03	.00	.00
26	.00	---	---	---	---	.01	.00	.14	.00	.02	.02	.00
27	.00	---	---	---	---	.01	.00	.01	.00	.02	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.20	.00	.00
29	.00	---	---	---	---	.00	.00	.00	.00	.02	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	.01	---	.01	.00	---
TOTAL	0.08	---	---	---	---	---	0.02	0.67	0.19	0.68	0.54	0.45
MEAN	.003	---	---	---	---	---	.001	.022	.006	.022	.017	.015
MAX	.05	---	---	---	---	---	.02	.19	.14	.23	.28	.15
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.2	---	---	---	---	---	.04	1.3	.4	1.3	1.1	.9

e Estimated

RIO GRANDE BASIN

08329874 HOFFMANTOWN CHURCH OUTLET NO. 2 AT ALBUQUERQUE, NM.

LOCATION.--Lat 35°08'50", long 106°33'10", Bernalillo County, Hydrologic Unit 132020203, in Elena Gallegos Grant, on right bank at drainage outlet of west parking lot of Hoffmantown Baptist Church, and at northern boundary of Albuquerque Academy and 0.3 mi south of Harper Boulevard. in Albuquerque.

DRAINAGE AREA.--.0413 mi²

PERIOD OF RECORD.--August 1990 to current year (no winter records).

GAGE.--Water-stage recorder and concrete-lined channel. Elevation of gage is 5,485 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46 ft³/s, Aug. 1, 1993, gage height, 3.18 ft, from rating curve extended above 7.0 ft³/s on basis of theoretical rating for open box culvert; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27 ft³/s, at 1850 hours July 28, gage height, 2.77 ft, from rating curve extended above 7.0 ft³/s on basis of theoretical rating for open box culvert; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	.00	---	---	---	---	.00	.00	.00	.00	.07	.00
2	---	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
3	---	.00	---	---	---	---	.00	.00	.00	.00	.00	.14
4	---	.00	---	---	---	---	.00	.00	.00	.00	.00	.03
5	---	.00	---	---	---	---	.00	.00	.00	.00	.00	.07
6	---	.00	---	---	---	---	.00	.00	.00	.00	.01	.00
7	---	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	.00	.00	.05	.00
9	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
10	.00	.00	---	---	---	---	.00	.09	.00	.00	.00	.00
11	.00	.04	---	---	---	---	.00	.43	.00	.00	.00	.00
12	.00	.00	---	---	---	---	.00	.06	.00	.00	.00	.02
13	.00	.26	---	---	---	---	.00	.06	.00	.00	.00	.19
14	.00	.02	---	---	---	---	.00	.00	.00	.00	.23	.23
15	.00	.03	---	---	---	---	.00	.00	.00	.00	.58	.00
16	.00	.09	---	---	---	.00	.00	.00	.00	.00	.00	.00
17	.07	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
19	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
20	.00	---	---	---	---	.00	.00	.00	.00	.03	.00	.00
21	.00	---	---	---	---	.00	.00	.00	.25	.43	.09	.00
22	.00	---	---	---	---	.00	.00	.04	.00	.00	.00	.00
23	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.02	.00	.00
25	.00	---	---	---	---	.00	.00	.19	.00	.00	.00	.00
26	.00	---	---	---	---	.00	.00	.25	.00	.00	.28	.00
27	.00	---	---	---	---	.01	.00	.00	.00	.00	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.22	.00	.00
29	.00	---	---	---	---	.00	.00	.00	.00	.08	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.01	.00	---
TOTAL	---	---	---	---	---	---	0.00	1.12	0.25	0.79	1.31	0.68
MEAN	---	---	---	---	---	---	.000	.036	.008	.025	.042	.023
MAX	---	---	---	---	---	---	.00	.43	.25	.43	.58	.23
MIN	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	.00	2.2	.5	1.6	2.6	1.3
(†)	0.43	1.10	0.09	0.01	0.00	0.24	0.07	2.52	0.61	1.96	2.73	1.74

(†) Total rainfall accumulation in inches.

RIO GRANDE BASIN

08329875 CHERRY HILLS ARROYO NO. 1 AT ALBUQUERQUE, NM.

LOCATION.--Lat 35°08'50", long 106°33'10", Bernalillo County, Hydrologic Unit 132020203, in Elena Gallegos Grant, on left bank on grounds of the Albuquerque Academy, and 300 ft downstream from Harper Road in Albuquerque.

PERIOD OF RECORD.--August 1990 to current year (no winter records).

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 5,470 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17 ft³/s, Aug. 2, 1994, gage height, 3.99 ft; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17 ft³/s, at 1425 hours Aug. 2, gage height, 3.99 ft; no flow most of the time.

REVISIONS.--The maximum discharge for the water year 1993 has been revised to 4.0 ft³/s, July 20, 1993, gage height 1.44.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	---	---	---	---	---	.00	.00	.00	.00	.04	---
2	.00	---	---	---	---	---	.00	.00	.00	.00	.06	---
3	.00	---	---	---	---	---	.00	.00	.00	.00	.00	---
4	.00	---	---	---	---	---	.00	.00	.00	.00	.00	---
5	.00	---	---	---	---	---	.00	.00	.00	---	.00	---
6	.00	---	---	---	---	---	.00	.00	.00	---	.00	---
7	.01	---	---	---	---	---	.00	.00	.00	---	.28	---
8	.00	---	---	---	---	---	.00	.00	.00	---	---	---
9	.00	---	---	---	---	---	.00	.00	.00	---	---	---
10	.00	---	---	---	---	---	.00	.03	.00	---	---	---
11	.00	---	---	---	---	---	.00	.28	.00	---	---	---
12	.00	---	---	---	---	---	.00	.04	.00	---	---	---
13	.00	---	---	---	---	---	.00	.05	.00	---	---	---
14	.00	---	---	---	---	---	.00	.00	.00	---	---	---
15	.00	---	---	---	---	---	.00	.00	.00	---	---	.00
16	.00	---	---	---	---	.00	.00	.00	.00	---	---	.00
17	---	---	---	---	---	.00	.00	.00	.00	---	---	.00
18	---	---	---	---	---	.00	.00	.00	.00	---	---	.00
19	---	---	---	---	---	.00	.00	.00	.00	.00	---	.00
20	---	---	---	---	---	.00	.00	.00	.02	.07	---	.00
21	---	---	---	---	---	.00	.00	.00	.10	.21	---	.00
22	---	---	---	---	---	.00	.00	.00	.00	.00	---	.00
23	---	---	---	---	---	.00	.00	.00	.00	.00	---	.00
24	---	---	---	---	---	.00	.00	.00	.00	.00	---	.00
25	---	---	---	---	---	.00	.00	.09	.00	.00	---	.00
26	---	---	---	---	---	.00	.00	.15	.00	.10	---	.00
27	---	---	---	---	---	.00	.00	.00	.00	---	---	.00
28	---	---	---	---	---	.00	.00	.00	.00	---	---	.00
29	---	---	---	---	---	.00	.00	.00	.00	.08	---	.00
30	---	---	---	---	---	.00	.00	.00	.00	.03	---	.00
31	---	---	---	---	---	.00	---	.00	---	.04	---	---
TOTAL	---	---	---	---	---	---	0.00	0.64	0.12	---	---	---
MEAN	---	---	---	---	---	---	.000	.021	.004	---	---	---
MAX	---	---	---	---	---	---	.00	.28	.10	---	---	---
MIN	---	---	---	---	---	---	.00	.00	.00	---	---	---
AC-FT	---	---	---	---	---	---	.00	1.3	.2	---	---	---

RIO GRANDE BASIN

08329876 CHERRY HILLS ARROYO NO. 2 AT ALBUQUERQUE, NM.

LOCATION.--Lat 35°08'50", long 106°33'20", Bernalillo County, Hydrologic Unit 132020203, in Elena Gallegos Grant, on right bank, on grounds of the Albuquerque Academy, and 390 ft downstream from Harper Road in Albuquerque.

DRAINAGE AREA.--.0796 mi²

PERIOD OF RECORD.--August 1990 to current year (no winter records).

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 5,445 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21 ft³/s, Sept. 22, 1990, gage height, 1.85 ft; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20 ft³/s, at 1610 hours May 11, gage height, 1.80 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	.00	.00	.03	---
2	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
3	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
4	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
5	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
6	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
7	.01	.00	---	---	---	---	.00	.00	.00	.00	.00	---
8	.00	.00	---	---	---	---	.00	.00	.00	.00	.06	---
9	.00	.00	---	---	---	---	.00	.00	.00	.00	---	---
10	.00	.00	---	---	---	---	.00	.01	.00	.00	---	---
11	.00	.00	---	---	---	---	.00	.47	.00	.00	---	---
12	.00	.00	---	---	---	---	.00	.01	.00	.00	---	---
13	.00	.06	---	---	---	---	.00	.02	.00	.00	---	---
14	.00	.00	---	---	---	---	.00	.00	.00	.00	.10	---
15	.00	.01	---	---	---	---	.00	.00	.00	.00	.42	.00
16	.00	.01	---	---	---	.00	.00	.00	.00	.00	---	.00
17	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
19	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
20	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
21	.00	---	---	---	---	.00	.00	.00	.08	.16	---	.00
22	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
23	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
25	.00	---	---	---	---	.00	.00	.05	.00	.00	---	.00
26	.00	---	---	---	---	.00	.00	.10	.00	.00	---	.00
27	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.10	---	.00
29	.00	---	---	---	---	.00	.00	.00	.00	.03	---	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
31	.00	---	---	---	---	.00	---	.00	---	.00	---	---
TOTAL	0.01	---	---	---	---	---	0.00	0.66	0.08	0.29	---	---
MEAN	.000	---	---	---	---	---	.000	.021	.003	.009	---	---
MAX	.01	---	---	---	---	---	.00	.47	.08	.16	---	---
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	---	---
AC-FT	.02	---	---	---	---	---	.00	1.3	.2	.6	---	---

RIO GRANDE BASIN

08329877 PINO ARROYO AT WYOMING BOULEVARD AT ALBUQUERQUE, NM.

LOCATION.--Lat 35°09'25", long 106°33'29", Bernalillo County, Hydrologic Unit 132020203, in Elena Gallegos Grant, on the grounds of the Albuquerque Academy, on left bank, and 560 ft upstream from Wyoming Boulevard in Albuquerque.

DATE OF RECORD -- 8-90 --

PERIOD OF RECORD.--August 1990 to current year (no winter records).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 5,540 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120 ft³/s, Aug. 28, 1994, gage height, 2.14 ft, from floodmarks; no flow part of many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 120 ft³/s, at unknown hours July 28, gage height, 2.14 ft, from floodmarks; no flow part of many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
2	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
3	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
4	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
5	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
6	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
7	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
9	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
10	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
11	.00	.00	---	---	---	---	.00	.66	.00	.00	.00	.00
12	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
13	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
14	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
15	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
16	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
17	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
19	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
20	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
21	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
22	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
23	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
25	.00	---	---	---	---	.00	.00	.00	.00	---	.00	.00
26	.00	---	---	---	---	.00	.00	.00	.00	---	.00	.00
27	.00	---	---	---	---	.00	.00	.00	.00	---	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	---	.00	.00
29	.00	---	---	---	---	.00	.00	.00	.00	---	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	---	---	---	---	---	0.00	0.66	0.00	---	0.00	0.00
MEAN	.000	---	---	---	---	---	.000	.021	.000	---	.000	.000
MAX	.00	---	---	---	---	---	.00	.66	.00	---	.00	.00
MIN	.00	---	---	---	---	---	.00	.00	.00	---	.00	.00
AC-FT	.00	---	---	---	---	---	.00	1.3	.00	---	.00	.00

RIO GRANDE BASIN

173

08329880 ACADEMY ACRES DRAIN AT ALBUQUERQUE, NM

LOCATION.--Lat 35°09'02", long 106°34'18", in NE¼SE¼ sec.25, T.11 N., R.3 E., Bernalillo County, Hydrologic Unit 13020203, on left bank of concrete-lined channel, 250 ft north of intersection of Esther Avenue and Burlison Drive, and 0.4 mi north of Academy Road in Albuquerque.

DRAINAGE AREA.--0.124 mi².

PERIOD OF RECORD.--June 1976 to current year (no winter records).

GAGE.--Water-stage recorder and V-notch weir. Elevation of gage is 5,306 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. Recording rain gage at station. The basin is primarily urban residential. Some minor streamflow may exist on days where daily mean discharges have been recorded as zero due to the sensitivity limits of the streamflow monitoring equipment. See tabulation below for monthly precipitation in inches. No flow most of time.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 103 ft³/s, Aug. 3, 1978, gage height, 4.09 ft, from rating curve extended above 10 ft³/s on basis of slope-area measurement of peak flow; no flow most time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39 ft³/s, at 2215 hours Aug. 1, gage height, 3.29 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.00	.00	.68	.00
2	---	---	---	---	---	---	.00	---	.00	---	.05	.03
3	---	---	---	---	---	---	.00	.00	.00	---	.01	.13
4	---	---	---	---	---	---	.00	.00	.00	---	.00	.03
5	---	---	---	---	---	---	.00	.00	.00	---	.04	.10
6	---	---	---	---	---	---	.00	---	.00	---	.00	.03
7	---	---	---	---	---	---	.00	---	.00	---	.00	.01
8	---	---	---	---	---	---	.00	---	.00	---	.19	.00
9	---	---	---	---	---	---	.00	---	.00	---	.02	.00
10	---	---	---	---	---	---	.00	---	.00	---	.00	.02
11	---	---	---	---	---	---	.00	.14	.00	---	.04	.00
12	---	---	---	---	---	---	.00	.00	.00	---	.00	.00
13	---	---	---	---	---	---	.00	.00	.00	---	.00	.23
14	---	---	---	---	---	---	.00	.00	.00	---	.24	.41
15	---	---	---	---	---	---	.00	.00	.00	---	1.5	.00
16	---	---	---	---	---	---	.00	.00	.00	---	.01	.00
17	---	---	---	---	---	---	.00	.00	.00	---	.00	.00
18	---	---	---	---	---	---	.00	.00	.00	---	.02	.00
19	---	---	---	---	---	---	.00	.00	.00	---	.04	.00
20	---	---	---	---	---	---	.00	.00	.00	---	.00	.00
21	---	---	---	---	---	---	.00	.00	.01	---	.19	.00
22	---	---	---	---	---	---	.00	.00	.00	---	.01	.00
23	---	---	---	---	---	---	.00	.00	.00	---	.00	.00
24	---	---	---	---	---	---	.02	.00	.00	---	.00	.00
25	---	---	---	---	---	---	.00	.00	.00	---	.00	.00
26	---	---	---	---	---	---	.00	.02	.00	---	.32	.00
27	---	---	---	---	---	---	.00	.00	.00	---	.03	.00
28	---	---	---	---	---	---	---	.00	.00	---	.00	.00
29	---	---	---	---	---	---	---	.00	.00	---	.00	.00
30	---	---	---	---	---	---	---	.00	.00	.03	.00	.00
31	---	---	---	---	---	---	---	.00	---	.02	.00	---
TOTAL	---	---	---	---	---	---	---	---	0.01	---	3.39	0.99
MEAN	---	---	---	---	---	---	---	---	.000	---	.11	.033
MAX	---	---	---	---	---	---	---	---	.01	---	1.5	.41
MIN	---	---	---	---	---	---	---	---	.00	---	.00	.00
AC-FT	---	---	---	---	---	---	---	---	.02	---	6.7	2.0
(†)	---	---	---	---	---	---	---	---	0.67	---	2.39	1.31

(†) Total rainfall accumulation in inches.

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM

LOCATION.--Lat 35°11'58", Long 106°35'53", Bernalillo County, Hydrologic Unit 13020203, in Elena Gallegos Grant, on
 1.6 mi north of Alameda, 1.1 mi upstream from El Estero de Alameda, 1.1 mi upstream from El Estero de Alameda, and 1.1 mi upstream from El Estero de Alameda.

DATE OF RECORD: Only 1993 to 1994 (no data for 1995 to 1999).

GAGE.--Water-stage recorder and concrete-lined channel. Elevation of gage is 5,015 ft above National Geodetic Vertical Datum of 1929, from U.S. Army Corps of Engineers plan and profile map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Some minor streamflow may exist on days where daily mean discharges have been recorded as zero due to the sensitivity limits of the streamflow monitoring equipment. Floodway channel intercepts flow of numerous arroyos in northeast Albuquerque and discharges into the Rio Grande at a point 1.6 mi north of Alameda. No flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	3.5	.00	11	.00	224	.00
2	.00	.00	.00	.00	.00	.00	6.0	.00	.00	.00	70	.90
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	16	90
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	91
5	.00	.00	15	.00	.00	.00	.00	.00	.00	.00	.00	193
6	.00	.00	1.6	.00	.00	.00	.00	.00	.00	.00	22	49
7	60	.00	.00	229	.00	75	.00	.00	.00	.00	28	37
8	.00	.00	.00	261	136	129	2.5	.00	6.1	.00	148	.00
9	.00	6.5	1.1	78	40	.00	10	.00	44	.00	37	.00
10	.00	.00	.00	100	.00	.00	.00	77	.00	.00	4.6	39
11	.00	31	.00	257	.00	.00	7.5	368	.00	.00	11	3.7
12	.00	19	5.3	253	.00	44	.00	151	.00	.00	.00	.00
13	.00	192	.00	.00	3.7	8.7	.00	111	.00	.00	.00	71
14	.00	51	.00	.00	.00	.00	.00	39	.00	.00	.00	120
15	.00	5.0	.00	.00	.00	4.2	.00	28	.00	.00	e100 e650	.00
16	.00	124	.00	.00	.00	5.9	.00	14	.00	.00	25	.00
17	100	22	.00	.00	.00	6.9	.00	.00	.00	e1.0	.00	.00
18	.00	.00	18	.00	.00	11	14	.00	.00	e40	.00	.00
19	17	.00	.00	.00	.00	16	27	.00	.00	e20	.00	.00
20	.00	.00	.00	.00	.00	32	68	.00	.00	.00	10	.00
21	.00	.00	214	.00	16	33	1.5	.00	207	175	52	.00
22	.00	e3.0	20	.00	.00	.00	.00	40	18	57	.00	.00
23	.00	.00	.00	.00	.00	5.7	.00	13	.00	12	.00	.00
24	.00	.00	.00	.00	2.8	2.0	2.4	.00	.00	.00	.00	.00
25	.00	.00	313	.00	.00	.00	.00	e200	.00	.00	e4.0	.00
26	5.3	27	294	.00	.00	.00	.00	e200	.00	1.0	119	.00
27	.00	32	.00	.00	.00	6.3	.00	22	.00	2.1	145	.00
28	.00	13	.00	.00	1.3	.00	.00	e1.0	.00	70	.00	.00
29	.00	13	.00	.00	---	.00	.00	1.4	.00	13	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	14	.00	.00
31	.00	---	.00	.00	---	.00	---	13	---	53	.00	---
TOTAL	182.30	538.50	882.00	1178.00	258.80	429.70	35.10	1278.40	346.10	408.10	1655.60	694.60
MEAN	5.88	17.9	28.5	38.0	9.24	13.9	1.17	41.2	11.5	13.2	53.4	23.2
MAX	100	192	313	261	136	129	10	368	207	175	650	193
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	362	1070	1750	2340	513	852	70	2540	686	809	3280	1380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1994, BY WATER YEAR (WY)

	MEAN	10.2	5.70	4.17	4.87	2.98	4.66	5.67	8.68	7.09	20.3	24.8	12.7
MAX	38.1	17.9	28.5	38.0	19.7	14.0	28.4	41.2	36.1	75.0	53.4	40.1	
(WY)	1985	1994	1994	1994	1993	1978	1988	1994	1988	1991	1994	1991	
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	2.78	3.35	.73	
(WY)	1976	1970	1973	1969	1969	1969	1978	1974	1975	1980	1973	1968	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1968 - 1994

ANNUAL TOTAL	4983.77	7887.20	
ANNUAL MEAN	13.7	21.6	10.1
HIGHEST ANNUAL MEAN			21.6
LOWEST ANNUAL MEAN			3.12
HIGHEST DAILY MEAN	355	650	1060
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		5040	a11000
INSTANTANEOUS PEAK STAGE		6.33	10.40
ANNUAL RUNOFF (AC-FT)	9890	15640	7280
10 PERCENT EXCEEDS	31	69	21
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

a-From rating curve extended above 2,900 ft³/s.

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1982-83, 1991 to current year.

REMARKS.--Selected composite samples were collected with an automatic peristaltic pump sampler that was activated whenever the flow stage exceeded 1.5 feet. Samples were pumped into a refrigerated chamber, manually retrieved within 12 hours, and expeditiously processed for delivery to the analytical laboratories. An automatic water-quality minimonitor recorder was used to obtain maximum, minimum, and mean daily values of water temperature and specific conductance of flow in the channel.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)*	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)*	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31616)*
DEC 1993												
08...	1630	--	--	1.3	590	8.5	7.5	4.5	632	17	--	--
FEB 1994												
08...	0003	--	--	276	234	7.9	--	4.0	--	--	--	1000
FEB												
08-08	0010	0310	235	--	214	8.0	--	--	--	280	64	--
JUN												
21...	2048	--	--	2500	70	8.9	22.0	23.0	636	--	--	--
JUN												
21-21	2052	2335	902	--	82	8.5	--	--	--	110	--	--
29...	1230	--	--	1.2	650	10.4	36.0	37.5	635	44	--	--
JUL												
20...	1530	--	--	E1.2	1040	9.9	35.0	36.5	636	56	--	--
SEP												
03...	1200	--	--	1.0	391	9.4	28.5	24.0	638	89	--	--

DATE	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31625)	STREP-TOCOCCHI, KF AGAR (COLS. PER 100 ML) (31673)	STREP-TOCOCCHI, FECAL (MPN) (31677)*	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RINE, TOTAL RESI-DUAL (MG/L) (50060)
DEC 1993												
08...	K1	1600	--	120	38	6.1	40	2	4.5	120	48	0.04
FEB 1994												
08...	--	--	110000	--	--	--	--	--	--	--	--	<0.02
FEB												
08-08	--	--	--	52	18	1.7	16	1	5.0	101	14	<0.02
JUN												
21...	--	--	--	--	--	--	--	--	--	--	--	<0.02
JUN												
21-21	--	--	--	28	9.7	0.81	2.4	0.2	2.0	61	4.9	--
29...	<1	160	--	160	61	2.4	64	2	8.3	134	100	0.04
JUL												
20...	K5	K23	--	420	150	11	54	1	8.7	68	430	--
SEP												
03...	53	57	--	120	42	3.6	33	1	6.2	111	49	<0.02

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
DEC 1993												
08...	27	266	236	6	0.049	0.020	0.069	0.010	0.30	0.060	0.020	3.5
FEB 1994												
08...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
08-08	21	163	142	708	0.760	0.100	0.860	1.50	5.9	1.50	0.400	72
JUN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
21-21	2.0	27	61	322	0.400	0.020	0.420	0.370	1.9	0.620	0.160	13
29...	49	439	365	13	--	<0.010	<0.050	0.020	1.0	0.060	0.020	14
JUL												
20...	32	830	726	17	--	<0.010	<0.050	0.020	1.5	0.180	0.060	30
SEP												
03...	25	301	225	24	--	<0.010	<0.050	0.050	1.1	0.050	0.040	32

* Analyses performed by City of Albuquerque Water Quality Laboratory

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

DATE	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI- METRIC (MG/L) (00556)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SE) (01095)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
DEC 1993 08...	<0.010	1	<1	--	--	8	--	--	<10	--	<1	--
FEB 1994 08...	<0.010	30	6	--	--	--	--	--	--	--	--	--
FEB 08-08	--	--	--	40	1	--	3	34	--	<0.5	--	<1.0
JUN 21...	<0.010	5	3	--	--	--	--	--	--	--	--	--
JUN 21-21	--	--	--	150	<1	2	1	19	<10	<0.5	<1	<1.0
JUN 29...	<0.010	5	<1	--	--	5	--	--	<10	--	<1	--
JUL 20...	<0.010	<1	<1	--	--	14	--	--	<10	--	<1	--
SEP 03...	<0.010	6	<1	--	--	5	--	--	<10	--	<1	--

DATE	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)
DEC 1993 08...	<1	--	--	6	--	--	1	--	--	--	<0.10
FEB 1994 08...	--	--	--	--	--	--	--	--	--	--	--
FEB 08-08	--	1	1	--	7	110	--	2	7	42	--
JUN 21...	--	--	--	--	--	--	--	--	--	--	--
JUN 21-21	<1	1	<1	15	4	190	40	1	<4	15	<0.10
JUN 29...	<1	--	--	6	--	--	<1	--	--	--	<0.10
JUL 20...	2	--	--	100	--	--	12	--	--	--	<0.10
SEP 03...	<1	--	--	8	--	--	1	--	--	--	<0.10

DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	THAL- LIUM, TOTAL (UG/L AS TI) (01059)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
DEC 1993 08...	--	--	2	--	1	--	<1	--	<25	<10	--
FEB 1994 08...	--	--	--	--	--	--	--	--	--	--	--
FEB 08-08	<0.1	3	--	1	--	<1	--	<1.0	<5	--	20
JUN 21...	--	--	--	--	--	--	--	--	--	--	--
JUN 21-21	<0.1	<1	10	<1	<1	<1	<1	<1.0	<5	140	5
JUN 29...	--	--	<1	--	<1	--	<1	--	<10	<10	--
JUL 20...	--	--	3	--	<1	--	<1	--	--	80	--
SEP 03...	--	--	2	--	<1	--	<1	--	--	<10	--

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	ENDING TIME	DI- BROMO- METHANE WATER RECOVER (UG/L) (30217)	DI- CHLORO- BROMO- METHANE TOTAL (UG/L) (32101)	CARBON- TETRA- CHLO- RIDE TOTAL (UG/L) (32102)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	BROMO- FORM TOTAL (UG/L) (32104)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- FORM TOTAL (UG/L) (32106)	PHENOLS TOTAL (UG/L) (32730)	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)
DEC												
08...	1630	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1	<0.2	<0.2
FEB												
08...	0003	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	30	1.5	<0.2
08-08	0010	0310	--	--	--	--	--	--	--	--	--	--
JUN												
21...	2048	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	5	0.2	<0.2
21-21	2052	2335	--	--	--	--	--	--	--	--	--	--
29...	1230	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	5	<0.2	<0.2
JUL												
20...	1530	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2
AUG												
26...	1830	--	--	--	--	--	--	--	--	--	--	--
SEP												
03...	1200	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	6	<0.2	<0.2

DATE	ACE- NAPHTH- YLENE TOTAL (UG/L) (34200)	ACE- NAPHTH- ENE TOTAL (UG/L) (34205)	ACRO- LEIN TOTAL (UG/L) (34210)	ACRYLO- NITRILE TOTAL (UG/L) (34215)	ANTHRA- CENE TOTAL (UG/L) (34220)	BENZO B FLUOR- AN- THENE TOTAL (UG/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (UG/L) (34242)	BENZO- A- PYRENE TOTAL (UG/L) (34247)	DELTA BENZENE HEXA- CHLOR- IDE TOTAL (UG/L) (34259)	BIS 2- CHLORO- ETHYL ETHER TOTAL (UG/L) (34273)	BIS (2- CHLORO- ETHOXY) METHANE TOTAL (UG/L) (34278)	BIS (2- CHLORO- ISO- PROPYL) ETHER TOTAL (UG/L) (34283)
DEC												
08...	<5.0	<5.0	<20	<20	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
FEB												
08...	--	--	<20	<20	--	--	--	--	--	--	--	--
08-08	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
JUN												
21...	--	--	<20	<20	--	--	--	--	--	--	--	--
21-21	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
29...	<5.0	<5.0	<20	<20	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
JUL												
20...	<5.0	<5.0	<20	<20	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
AUG												
26...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
03...	<5.0	<5.0	<20	<20	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0

DATE	N-BUTYL BENZYL PHTHAL- ATE TOTAL (UG/L) (34292)	CHLORO- BENZENE TOTAL (UG/L) (34301)	CHLORO- ETHANE TOTAL (UG/L) (34311)	CHRY- SENE TOTAL (UG/L) (34320)	DIETHYL PHTHAL- ATE TOTAL (UG/L) (34336)	DI- METHYL PHTHAL- ATE TOTAL (UG/L) (34341)	ENDO- SULFAN SULFATE TOTAL (UG/L) (34351)	ENDO- SULFAN BETA TOTAL (UG/L) (34356)	ENDO- SULFAN- I WATER WHOLE REC (UG/L) (34361)	ENDRIN ALDE- HYDE TOTAL (UG/L) (34366)	ETHYL- BENZENE TOTAL (UG/L) (34371)
DEC											
08...	<5.0	<0.20	<0.2	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	<0.2
FEB											
08...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2
08-08	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--
JUN											
21...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2
21-21	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--
29...	<5.0	<0.20	<0.2	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	<0.2
JUL											
20...	<5.0	<0.20	<0.2	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	<0.2
AUG											
26...	--	--	--	--	--	--	--	--	--	--	--
SEP											
03...	<5.0	<0.20	<0.2	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	<0.2

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1974

DATE	FLUOR- ANTHENE TOTAL (UG/L) (34376)	FLUOR- ENE TOTAL (UG/L) (34381)	HEXA- CHLORO- CYCLO- PENT- ADIENE TOTAL (UG/L) (34386)	HEXA- CHLORO- ETHANE TOTAL (UG/L) (34396)	INDENO (1,2,3- CD) PYRENE TOTAL (UG/L) (34403)	ISO- PHORONE TOTAL (UG/L) (34408)	METHYL- BROMIDE TOTAL (UG/L) (34413)	METHYL- CHLO- RIDE TOTAL (UG/L) (34418)	METHYL- ENE CHLO- RIDE TOTAL (UG/L) (34423)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (UG/L) (34428)	N-NITRO- SODI-N- PHENY- LAMINE TOTAL (UG/L) (34433)
DEC 08...	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<0.2	<0.2	<0.2	<5.0	<5.0
FEB 08...	--	--	--	--	--	--	<0.2	<0.2	<0.2	--	--
08-08	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0
JUN 21...	--	--	--	--	--	--	<0.2	<0.2	<0.2	--	--
21-21	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0
29...	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<0.2	<0.2	<0.2	<5.0	<5.0
JUL 20...	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<0.2	<0.2	<0.2	<5.0	<5.0
AUG 26...	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<0.2	<0.2	<0.2	<5.0	<5.0

DATE	N-NITRO- SODI- METHY- LAMINE TOTAL (UG/L) (34438)	NITRO- BENZENE TOTAL (UG/L) (34447)	PARA- CHLORO- META CRESOL TOTAL (UG/L) (34452)	PHENAN- THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L) (34511)
DEC 08...	<5.0	<5.0	<30.0	<5.0	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
FEB 08...	--	--	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
08-08	<5.0	<5.0	<30.0	<5.0	<5.0	--	--	--	--	--	--
JUN 21...	--	--	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
21-21	<5.0	<5.0	<30.0	<5.0	<5.0	--	--	--	--	--	--
29...	<5.0	<5.0	<30.0	<5.0	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
JUL 20...	<5.0	<5.0	<30.0	<5.0	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
AUG 26...	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	<5.0	<5.0	<30.0	<5.0	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

DATE	ETHANE, 1,1,2,2- TETRA- CHLORO- WAT UNF REC (UG/L) (34516)	BENZOGH I PERYL ENE1,12- BENZOP ERYLENE TOTAL (UG/L) (34521)	BENZO A ANTHRAC ENE1,2- BENZANT HRACENE TOTAL (UG/L) (34526)	BENZENE O- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	1,2- TRANSDI CHLORO- ETHENE TOTAL (UG/L) (34546)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)	1,2,5,6- DIBENZ -ANTHRA -CENE TOTAL (UG/L) (34556)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	2- CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L) (34576)
DEC 08...	<0.2	<10.0	<10.0	<5.0	<0.2	<0.2	<5.0	<10.0	<5.0	<5.0	<1.0
FEB 08...	<0.2	--	--	<0.20	<0.2	<0.2	<0.20	--	<0.20	<0.20	<1.0
08-08	--	<10.0	<10.0	<5.0	--	--	<5.0	<10.0	<5.0	<5.0	--
JUN 21...	<0.2	--	--	<0.20	<0.2	<0.2	<0.20	--	<0.20	<0.20	<1.0
21-21	--	<10.0	<10.0	<5.0	--	--	<5.0	<10.0	<5.0	<5.0	--
29...	<0.2	<10.0	<10.0	<5.0	<0.2	<0.2	<5.0	<10.0	<5.0	<5.0	<1.0
JUL 20...	<0.2	<10.0	<10.0	<5.0	<0.2	<0.2	<5.0	<10.0	<5.0	<5.0	<1.0
AUG 26...	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	<0.2	<10.0	<10.0	<5.0	<0.2	<0.2	<5.0	<10.0	<5.0	<5.0	<1.0

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	2-CHLORO-NAPHTHALENE TOTAL (UG/L) (34581)	2-CHLORO-PHENOL TOTAL (UG/L) (34586)	2-NITRO-PHENOL TOTAL (UG/L) (34591)	DI-N-OCTYL-PHTHALATE TOTAL (UG/L) (34596)	2,4-DI-CHLORO-PHENOL TOTAL (UG/L) (34601)	2,4-DI-METHYL-PHENOL TOTAL (UG/L) (34606)	2,4-DI-NITRO-TOLUENE TOTAL (UG/L) (34611)	2,4-DI-NITRO-PHENOL TOTAL (UG/L) (34616)	2,4,6-TRI-CHLORO-PHENOL TOTAL (UG/L) (34621)	2,6-DI-NITRO-TOLUENE TOTAL (UG/L) (34626)	3,3'-DI-CHLORO-BENZIDINE TOTAL (UG/L) (34631)
DEC 08...	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0
FEB 08...	--	--	--	--	--	--	--	--	--	--	--
08-08	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0
JUN 21...	--	--	--	--	--	--	--	--	--	--	--
21-21	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0
29...	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0
JUL 20...	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0
AUG 26...	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0

DATE	4-BROMO-PHENYL PHENYL ETHER TOTAL (UG/L) (34636)	4-CHLORO-PHENYL ETHER TOTAL (UG/L) (34641)	4-NITRO-PHENOL TOTAL (UG/L) (34646)	4,6-DINITRO-ORTHO-CRESOL TOTAL (UG/L) (34657)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	AROCLOR 1016 PCB TOTAL (UG/L) (34671)	PHENOL (C6H5OH) TOTAL (UG/L) (34694)	NAPHTH-ALENE TOTAL (UG/L) (34696)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	CIS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	PENTA-CHLORO-PHENOL TOTAL (UG/L) (39032)
DEC 08...	<5.0	<5.0	<30.0	<30.0	<0.2	<0.1	<5.0	<5	<0.2	<0.2	<30.0
FEB 08...	--	--	--	--	<0.2	--	--	0.3	<0.2	<0.2	--
08-08	<5.0	<5.0	<30.0	<30.0	--	<0.1	<5.0	<5.0	--	--	<30.0
JUN 21...	--	--	--	--	<0.2	--	--	0.2	<0.2	<0.2	--
21-21	<5.0	<5.0	<30.0	<30.0	--	<0.1	<5.0	<5.0	--	--	<30.0
29...	<5.0	<5.0	<30.0	<30.0	<0.2	<0.1	<5.0	<5	<0.2	<0.2	<30.0
JUL 20...	<5.0	<5.0	<30.0	<30.0	<0.2	<0.1	<5.0	<5	<0.2	<0.2	<30.0
AUG 26...	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	<5.0	<5.0	<30.0	<30.0	<0.2	<0.1	<5.0	<5	<0.2	<0.2	<30.0

DATE	CHLOR-DANE CIS WATER WHOLE TOTAL (UG/L) (39062)	CHLOR-DANE TRANS WATER WHOLE TOTAL (UG/L) (39065)	BIS(2-ETHYL-HEXYL) PHTHALATE TOTAL (UG/L) (39100)	DI-N-BUTYL PHTHALATE TOTAL (UG/L) (39110)	BENZI-DINE TOTAL (UG/L) (39120)	VINYL CHLORIDE TOTAL (UG/L) (39175)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	P,P' DDT TOTAL (UG/L) (39300)	P,P' DDD TOTAL (UG/L) (39310)	P,P' DDE TOTAL (UG/L) (39320)	ALDRIN, TOTAL (UG/L) (39330)
DEC 08...	<0.10	<0.10	<5.0	<5.0	<40.0	<0.2	<0.2	<0.10	<0.10	<0.04	<0.040
FEB 08...	--	--	--	--	--	<0.2	<0.2	--	--	--	--
08-08	<0.10	<0.10	27.0	<5.0	<40.0	--	--	<0.10	<0.10	<0.04	<0.040
JUN 21...	--	--	--	--	--	<0.2	<0.2	--	--	--	--
21-21	<0.10	<0.10	5.0	<5.0	<40.0	--	--	<0.10	<0.10	<0.04	<0.040
29...	<0.10	<0.10	<5.0	<5.0	<40.0	<0.2	<0.2	<0.10	<0.10	<0.04	<0.040
JUL 20...	<0.10	<0.10	<5.0	<5.0	<40.0	<0.2	<0.2	<0.10	<0.10	<0.04	<0.040
AUG 26...	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	<0.10	<0.10	<5.0	<5.0	<40.0	<0.2	<0.2	<0.10	<0.10	<0.04	<0.040

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	ALPHA BHC TOTAL (UG/L) (39337)	BETA BENZENE HEXA- CHLOR- IDE TOTAL (UG/L) (39338)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	TOX- APHENE, TOTAL (UG/L) (39400)	HEPTA- CHLOR, TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	AROCLOR 1221 PCB TOTAL (UG/L) (39488)	AROCLOR 1232 PCB TOTAL (UG/L) (39492)
DEC 08...	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2	<0.030	<0.80	<1.0	<0.1
FEB 08...	--	--	--	--	--	--	--	--	--	--	--
08-08	<0.03	<0.03	<0.030	0.1	<0.020	<0.060	<2	<0.030	<0.80	<1.0	<0.1
JUN 21...	--	--	--	--	--	--	--	--	--	--	--
21-21	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2	<0.030	<0.80	<1.0	<0.1
29...	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2	<0.030	<0.80	<1.0	<0.1
JUL 20...	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2	<0.030	<0.80	<1.0	<0.1
AUG 26...	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2	<0.030	<0.80	<1.0	<0.1

DATE	AROCLOR 1242 PCB TOTAL (UG/L) (39496)	AROCLOR 1248 PCB TOTAL (UG/L) (39500)	AROCLOR 1254 PCB TOTAL (UG/L) (39504)	AROCLOR 1260 PCB TOTAL (UG/L) (39508)	HEXA- CHLORO- BENZENE TOTAL (UG/L) (39700)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L) (39702)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L) (77093)	STYRENE TOTAL (UG/L) (77128)	1,1-DI CHLORO- FRO- PENE, WAT, WH TOTAL (UG/L) (77168)	2,2-DI CHLORO- FRO- PANE WAT, WH TOTAL (UG/L) (77170)	1,3-DI- CHLORO- PROPANE WAT, WH TOTAL (UG/L) (77173)
DEC 08...	<0.1	<0.1	<0.1	<0.1	<5.0	<5	<0.2	<0.2	<0.2	<0.2	<0.2
FEB 08...	--	--	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
08-08	<0.1	<0.1	<0.1	<0.1	<5.0	<5.0	--	--	--	--	--
JUN 21...	--	--	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
21-21	<0.1	<0.1	<0.1	<0.1	<5.0	<5.0	--	--	--	--	--
29...	<0.1	<0.1	<0.1	<0.1	<5.0	<5	<0.2	<0.2	<0.2	<0.2	<0.2
JUL 20...	<0.1	<0.1	<0.1	<0.1	<5.0	<5	<0.2	<0.2	<0.2	<0.2	<0.2
AUG 26...	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	<0.1	<0.1	<0.1	<0.1	<5.0	<5	<0.2	<0.2	<0.2	<0.2	<0.2

DATE	PSEUDO- CUMENE WATER UNFLTRD REC (UG/L) (77222)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	MESIT- YLENE WATER UNFLTRD REC (UG/L) (77226)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	METHANE BROMO CHLORO- WAT UNFLTRD REC (UG/L) (77297)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE SEC BUTYL- WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT- BUTYL- WATER UNFLTRD REC (UG/L) (77353)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356)
DEC 08...	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
FEB 08...	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
08-08	--	--	--	--	--	--	--	--	--	--	--
JUN 21...	0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
21-21	--	--	--	--	--	--	--	--	--	--	--
29...	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
JUL 20...	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
AUG 26...	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	123-TRI- CHLORO- PROPANE WATER WHOLE TOTAL (UG/L) (77443)	ETHANE, 1112- TETRA- CHLORO- WAT UNF REC (UG/L) (77562)	1,2,3- TRI- CHLORO- BENZENE WAT, WH REC (UG/L) (77613)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL ETHER TERT- BUTYL WAT UNF REC (UG/L) (78032)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	BROMO- BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	DIBROMO CHLORO- PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (UG/L) (82626)	SAM- PLING METHOD, CODES (82398)
DEC 08...	<0.2	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0	<5.0	--
FEB 08...	<0.2	<0.2	<0.20	<0.2	<0.5	<1.0	0.30	<0.2	<1.0	--	70
08-08	--	--	--	--	--	--	--	--	--	<5.0	70
JUN 21...	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	0.40	<0.2	<1.0	--	70
21-21	--	--	--	--	--	--	--	--	--	<5.0	25
29...	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.2	<1.0	<5.0	70
JUL 20...	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.2	<1.0	<5.0	--
21...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.2	<1.0	<5.0	--

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
DEC 1993						
08...	1630	1.3	590	4.5	25	0.09
JUN 1994						
21...	2048	2500	70	23.0	1900	12800
21...	2052	2400	--	--	1200	7780
21...	2110	1770	--	--	1050	5020
21...	2125	1340	--	--	868	3140
21...	2140	986	--	--	720	1920
21...	2155	770	--	--	681	1420
21...	2210	626	--	--	618	1040
21...	2225	549	--	--	574	851
21...	2240	472	--	--	485	618
21...	2255	410	--	--	409	453
21...	2315	325	--	--	368	323
21...	2335	271	--	--	320	234
29...	1230	1.2	650	37.5	8	0.02
JUL						
20...	1530	E1.2	1040	36.5	52	--
21...	2100	2500	258	--	3020	20400
21...	2110	2400	179	--	3530	22900
21...	2125	1860	186	--	2750	13800
21...	2140	1460	184	--	2240	8830
21...	2155	1110	186	--	1730	5180
21...	2210	860	184	--	1350	3130
21...	2225	740	186	--	2050	4100
21...	2240	800	199	--	1780	3840
21...	2300	860	193	--	960	2230
21...	2320	800	185	--	656	1420
21...	2340	620	185	--	653	1090
21...	2400	400	197	--	537	580
AUG						
08...	1715	1530	165	--	688	2840
08...	1730	1100	152	--	921	2740
08...	1745	818	156	--	816	1800
08...	1800	722	164	--	721	1410
08...	1815	572	161	--	700	1080
08...	1830	483	177	--	777	1010
08...	1845	350	188	--	1390	1310
08...	1900	295	206	--	809	644
08...	1920	230	217	--	683	424
08...	1940	226	217	--	578	353
08...	2000	212	224	--	571	327
26...	1830	1000	247	--	2210	5980
SEP						
03...	1200	1.0	391	24.0	18	0.05

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

RESISTANCE CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C) WATER YEAR COVERED 1999 TO PRESENT 1999
FROM AUTOMATIC WATER-QUALITY MONITORING RECORDER

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			MAY	
1	674	529	584	789	725	745	---	---	---	---	---	---
2	642	400	455	732	584	656	---	---	---	---	---	---
3	644	349	417	707	588	662	---	---	---	---	---	---
4	702	418	620	677	582	608	---	---	---	---	---	---
5	786	618	689	709	616	669	---	---	---	---	---	---
6	673	600	632	819	709	749	---	---	---	---	---	---
7	604	145	248	>999	732	859	---	---	---	749	632	701
8	451	236	347	898	784	846	---	---	---	856	614	727
9	588	451	510	794	441	634	---	---	---	911	618	752
10	563	469	521	---	---	---	---	---	---	811	117	496
11	605	466	532	---	---	---	---	---	---	338	83	224
12	612	472	542	---	---	---	---	---	---	228	139	176
13	565	468	505	---	---	---	---	---	---	389	226	294
14	625	478	565	---	---	---	---	---	---	565	389	483
15	676	470	552	---	---	---	---	---	---	603	555	580
16	863	452	617	---	---	---	---	---	---	923	596	685
17	806	112	210	---	---	---	---	---	---	708	567	646
18	332	194	256	---	---	---	---	---	---	793	656	711
19	338	176	222	---	---	---	---	---	---	762	647	713
20	404	260	347	---	---	---	---	---	---	890	607	717
21	515	403	490	---	---	---	---	---	---	932	684	804
22	538	504	518	---	---	---	---	---	---	>999	183	737
23	546	509	530	---	---	---	---	---	---	---	---	---
24	566	534	547	---	---	---	---	---	---	558	343	457
25	615	495	541	---	---	---	---	---	---	475	66	222
26	690	371	545	---	---	---	---	---	---	182	54	122
27	427	389	410	---	---	---	---	---	---	---	---	---
28	620	426	537	---	---	---	---	---	---	---	---	---
29	604	574	587	---	---	---	---	---	---	---	---	---
30	706	597	654	---	---	---	---	---	---	---	---	---
31	944	670	788	---	---	---	---	---	---	---	---	---
MONTH	944	112	501	>999	441	714	---	---	---	>999	54	539
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	872	640	754	---	---	---	562	401	458
2	---	---	---	816	692	748	---	---	---	601	294	517
3	---	---	---	794	543	637	---	---	---	545	122	344
4	---	---	---	681	536	592	---	---	---	239	121	166
5	---	---	---	701	576	652	---	---	---	356	86	253
6	---	---	---	740	684	719	---	---	---	311	91	161
7	---	---	---	810	740	781	---	---	---	311	65	163
8	---	---	---	871	661	787	---	---	---	439	256	351
9	523	482	499	881	674	764	---	---	---	560	434	486
10	578	497	536	790	650	703	---	---	---	560	136	391
11	631	578	605	779	641	728	410	148	299	301	174	214
12	667	610	638	---	---	---	671	336	494	585	301	453
13	680	628	653	---	---	---	888	496	637	571	86	187
14	696	652	673	912	763	842	622	71	181	146	72	100
15	782	472	698	963	722	830	71	39	54	546	146	312
16	830	709	762	783	691	729	184	59	188	604	476	507
17	784	588	697	907	679	824	561	174	344	614	524	575
18	666	43	468	843	628	758	680	451	569	654	490	587
19	506	62	284	>999	799	909	809	523	607	740	493	617
20	658	431	553	>999	314	827	780	299	635	602	400	513
21	567	55	382	501	91	341	344	87	180	615	492	565
22	271	79	184	365	108	248	585	221	390	652	453	554
23	667	228	425	554	132	391	642	461	562	615	472	530
24	745	481	571	577	272	402	709	523	621	634	528	588
25	694	562	612	414	312	369	689	362	603	712	560	656
26	807	660	723	516	251	415	397	87	281	731	557	635
27	742	594	692	498	269	405	319	125	222	645	446	587
28	816	619	718	---	---	---	705	314	438	724	575	658
29	798	647	694	---	---	---	651	529	592	717	582	648
30	671	534	595	---	---	---	725	487	606	709	574	625
31	---	---	---	---	---	---	652	372	487	---	---	---
MONTH	830	43	576	>999	91	646	888	39	424	740	65	447
YEAR	>999	39	531									

> Actual value is known to be greater than the value shown

RIO GRANDE BASIN

08329914 NORTH CAMINO ARROYO TRIBUTARY AT ALBUQUERQUE, NM

LOCATION.--Lat 35°11'47", long 106°33'57", Bernalillo County, Hydrologic Unit 13020203, in Elena Gallegos Grant, on left bank in right-of-way for extension of Wyoming Boulevard, 150 ft south of Venice Avenue, 15 ft north of Beverly Hills Avenue, and 1.5 mi north of intersection of Paseo del Norte and Wyoming Boulevard in Albuquerque.

DRAINAGE AREA.--0.00 mi².

PERIOD OF RECORD.--June 1979 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 5,364 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. Recording rain gage at station. The basin is totally undeveloped. See tabulation below for monthly precipitation in inches.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 134 ft³/s, July 7, 1981, gage height, 2.10 ft, from slope-area measurement of peak flow; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18 ft³/s, at 1725 hours Aug. 26, gage height, 1.15 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
2	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
3	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.29
4	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.56
5	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
6	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
7	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
9	.00	.00	---	---	---	---	.00	.00	.00	.00	e.00	.00
10	.00	.00	---	---	---	---	.00	.00	.00	.00	e.00	.51
11	.00	.00	---	---	---	---	.00	.00	.00	.00	e.00	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
13	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.86
14	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.48
15	.00	.00	---	---	---	---	.00	.00	.00	.00	.89	.00
16	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
17	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
19	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
20	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
21	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
22	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
23	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
25	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
26	.00	---	---	---	---	.00	.00	.00	.00	.00	1.5	.00
27	.00	---	---	---	---	.00	.00	.00	.00	.00	.85	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
29	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	3.24	2.70
MEAN	.000	---	---	---	---	---	.000	.000	.000	.000	.10	.090
MAX	.00	---	---	---	---	---	.00	.00	.00	.00	1.5	.86
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	.00	.00	.00	6.4	5.4
(†)	3.11						0.29	2.73	0.00	0.00	2.25	0.00

e Estimated

(†) Total rainfall accumulation in inches.

RIO GRANDE BASIN

08329928 RIO GRANDE NEAR ALAMEDA NM

LOCATION.--Lat 35°10'54", long 106°39'20", Bernalillo County, Hydrologic Unit 13020203, on downstream side of Paseo del Norte bridge in Albuquerque, and at mile 1,548.0.

DRAINAGE AREA.--17,263 mi², approximately, including 2,940 mi² in closed basin in San Luis Valley, CO.

PERIOD OF RECORD.--March 1989 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,990 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow completely regulated since November 1973 by Cochiti Dam (station 08317300), 48 mi upstream. Possible regulation by operation of reservoirs on Rio Chama and by flood and silt-detention reservoirs on Galisteo Creek and Jemez River (stations 08285000, 08286900, 08317900, 08328500). Diversions upstream from station for irrigation of about 714,000 acres, several hundred of which are downstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	408	1040	1400	1100	884	934	1460	e3800	3680	2280	581	610
2	408	856	1380	1080	765	992	1830	e3250	4890	1350	952	1140
3	420	1290	1360	1120	659	1140	2020	2940	5090	1150	692	918
4	402	1420	1400	1100	650	1140	1990	2950	4960	1100	646	739
5	400	1260	e1410	1010	771	1290	2010	3840	3190	989	568	618
6	394	1460	e1420	988	962	1180	2220	4180	3130	908	596	531
7	532	1540	e1410	931	955	1270	2390	4210	3490	809	591	798
8	548	1530	1500	904	878	1420	2430	4050	4400	715	812	407
9	622	1380	1590	913	919	1600	2420	4010	4790	678	796	375
10	640	1400	1500	914	997	1590	2470	4010	4840	709	540	411
11	642	1380	1580	922	1000	1450	2480	5280	4090	715	523	409
12	638	1380	1630	943	1020	1340	2600	6980	4030	723	526	399
13	664	1590	1720	902	976	1300	2630	5140	4160	732	481	452
14	561	1680	1590	785	897	904	2520	5820	4430	728	523	648
15	527	1420	1470	798	793	678	2870	5710	4820	717	1900	646
16	517	1520	1460	798	769	720	3010	5730	5140	790	2260	499
17	608	1590	1350	786	805	983	2940	5340	5080	837	1560	411
18	573	1590	1390	774	880	1240	3000	5440	5110	996	1160	379
19	596	1480	1390	882	952	1300	3650	5500	5080	838	371	377
20	525	1370	1410	897	1050	1380	4000	5270	5010	917	410	366
21	456	1370	1440	883	1110	1510	3850	4980	5190	958	705	356
22	452	1370	1510	892	1060	1880	4280	5640	5070	1010	777	385
23	440	1380	1630	916	889	1960	4250	5750	5420	985	1010	369
24	425	1480	1570	948	865	1860	4460	5740	5540	603	596	378
25	403	1570	1270	925	863	1840	5470	5900	e5230	507	613	446
26	397	1510	1200	924	757	1830	e5150	5260	e5200	465	935	384
27	380	1500	1080	909	732	1820	e4840	4640	e5150	600	908	347
28	352	1430	1070	924	978	1610	e4820	4190	4950	637	640	366
29	368	1190	1200	909	---	1280	e4500	3030	4420	590	518	359
30	421	1130	1110	912	---	1230	e4200	2950	2810	721	491	359
31	642	---	1080	902	---	1480	---	2920	---	631	587	---
TOTAL	15361	42106	43520	28591	24836	42151	96760	144450	138390	26388	24268	14882
MEAN	496	1404	1404	922	887	1360	3225	4660	4613	851	783	496
MAX	664	1680	1720	1120	1110	1960	5470	6980	5540	2280	2260	1140
MIN	352	856	1070	774	650	678	1460	2920	2810	465	371	347
AC-FT	30470	83520	86320	56710	49260	83610	191900	286500	274500	52340	48140	29520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1994, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	405	950	1069	856	863	1294	2925	3336	3126	871	921	706
MAX	496	1498	1530	1130	1029	1792	3853	4660	5726	1321	2272	1202
(WY)	1994	1992	1992	1993	1993	1989	1992	1994	1993	1991	1991	1991
MIN	310	166	771	574	645	667	715	1250	363	453	423	211
(WY)	1992	1990	1991	1990	1990	1990	1990	1989	1989	1992	1990	1989

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1989 - 1994
ANNUAL TOTAL	734121	641703	
ANNUAL MEAN	2011	1758	1524
HIGHEST ANNUAL MEAN			1902
LOWEST ANNUAL MEAN			627
HIGHEST DAILY MEAN	8100	Jun 9	8100
LOWEST DAILY MEAN	148	Feb 22	22
ANNUAL SEVEN-DAY MINIMUM	392	Oct 24	29
INSTANTANEOUS PEAK FLOW			9520
INSTANTANEOUS PEAK STAGE		6.95	6.95
ANNUAL RUNOFF (AC-FT)	1456000	1273000	1104000
10 PERCENT EXCEEDS	4800	4830	3810
50 PERCENT EXCEEDS	1270	1100	886
90 PERCENT EXCEEDS	530	452	350

e Estimated

RIO GRANDE BASIN

08329935 ARROYO 19A AT ALBUQUERQUE, NM

LOCATION.--Lat 35°09'24", long 106°43'37", in NE¼NE¼ sec.28, T.11 N., R.2 E., Bernalillo County, Hydrologic Unit 13020203, on right bank 900 ft upstream from culvert under 81st Street, 1,200 ft south of city water tank. and 1.5 mi south of intersection of 81st Street and Arroyo Drive at Albuquerque.

WATER YEAR: 1977-1978.

PERIOD OF RECORD.--June 1977 to current year (no winter records).

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 5,328 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 19, 1986 at site 450 ft downstream at different datum.

REMARKS.--Records good. Recording rain gage at station. The basin drains undeveloped semidesert terrain above the escarpment west of Albuquerque. See tabulation below for monthly precipitation in inches. No flow most of time.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 100 ft³/s, Oct. 2, 1981, gage height, 4.03 ft, site and datum then in use, from slope-area measurement of peak flow; no flow most time.

EXTREMES FOR CURRENT YEAR.--No flow during water year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
2	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
3	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
4	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
5	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
6	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
7	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
9	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
10	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
11	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
13	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
14	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
15	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
16	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
17	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
19	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
20	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
21	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
22	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
23	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
25	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
26	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
27	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
29	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	.000	---	---	---	---	---	.000	.000	.000	.000	.000	.000
MAX	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
(†)	0.61						0.04	0.92	0.36		1.34	0.89

(†) Total rainfall accumulation in inches.

RIO GRANDE BASIN

08329936 TAYLOR RANCH DRAIN AT ALBUQUERQUE, NM

LOCATION.--Lat 35°08'56", Long 106°42'03", in SE¼SW¼ sec.26, T.11 N., R.2 E., Bernalillo County, Hydrologic Unit 13020203, on left bank of drainage outlet for Taylor Ranch subdivision, 120 ft west of intersection of Calle Nuestra and Cabrillo Circle, and 1,850 ft southwest of intersection of Montano Road and Valle Vista Drive in Albuquerque.

DRAINAGE AREA.--0.132 mi².

PERIOD OF RECORD.--August 1978 to current year (no winter records).

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 5,115 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. Recording rain gage at station. The basin is primarily urban residential. See tabulation below for monthly precipitation in inches.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43 ft³/s, Sept. 8, 1980, gage height, 3.26 ft; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32 ft³/s, July 29, at 1845 hours gage height, 2.87 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	.00	.00	.04	---
2	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
3	.00	.00	---	---	---	---	.00	.00	.00	.01	.00	---
4	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
5	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
6	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
7	.02	.00	---	---	---	---	.00	.00	.00	.00	.00	---
8	.00	.00	---	---	---	---	.00	.00	.01	.00	.00	---
9	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
10	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
11	.00	.07	---	---	---	---	.00	---	.00	.00	.00	---
12	.00	.00	---	---	---	---	.00	---	.00	.00	.00	---
13	.00	.16	---	---	---	---	.00	---	.00	.00	.13	---
14	.00	.01	---	---	---	---	.00	---	.00	.00	.00	---
15	.00	---	---	---	---	---	.00	---	.00	.00	.09	---
16	.00	---	---	---	---	---	.00	---	.00	.00	.17	.00
17	.03	---	---	---	---	.00	.00	---	.00	.00	---	.06
18	.00	---	---	---	---	.00	.00	---	.00	.00	---	.00
19	.01	---	---	---	---	.00	.00	---	.01	.00	---	.00
20	.00	---	---	---	---	.10	.01	---	.00	.00	---	.00
21	.00	---	---	---	---	.00	.00	---	.08	.01	---	.00
22	.00	---	---	---	---	.00	.00	---	.00	.00	---	.00
23	.00	---	---	---	---	.00	.00	.07	.00	.00	---	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.04	---	.00
25	.00	---	---	---	---	.00	.00	.23	.00	.01	---	.00
26	.00	---	---	---	---	.00	.05	.11	.00	.00	---	.00
27	.00	---	---	---	---	.00	.00	.00	.00	.04	---	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.36	---	.00
29	.00	---	---	---	---	.00	.00	.00	.00	.49	---	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
31	.00	---	---	---	---	.00	---	.00	---	.05	---	---
TOTAL	0.06	---	---	---	---	---	0.06	---	0.10	1.01	---	---
MEAN	.002	---	---	---	---	---	.002	---	.003	.033	---	---
MAX	.03	---	---	---	---	---	.05	---	.08	.49	---	---
MIN	.00	---	---	---	---	---	.00	---	.00	.00	---	---
AC-FT	.1	---	---	---	---	---	.1	---	.2	2.0	---	---
(†)	0.62	---	---	---	---	---	0.03	1.24	0.33	1.64	2.27	1.78

(†) Total rainfall accumulation in inches.

RIO GRANDE BASIN

08329938 LADERA ARROYO AT ALBUQUERQUE, NM

LOCATION.--Lat 35°06'59", long 106°43'59", in Town of Atrisco Land Grant, Bernalillo County, Hydrologic Unit 13020203, on left bank, 0.25 mi northwest of City of Albuquerque water storage tank, on dirt road extension of Santa Fe Trail, and 2.0 mi west of North Gate Road in Albuquerque.

PERIOD OF RECORD.--May 1981 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 5,220 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 5, 1986 at site 0.2 mi downstream at different datum.

REMARKS.--Records fair. Recording rain gage at station. The basin is undeveloped semidesert terrain, part of which, is above the escarpment west of Albuquerque. See tabulation below for monthly precipitation in inches.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 182 ft³/s, Aug. 27, 1993, gage height, 4.11 ft, from step-backwater analysis of channel; no flow most of time.

EXTREMES FOR CURRENT YEAR.--No flow during the water year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
2	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
3	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
4	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
5	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
6	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
7	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
9	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
10	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
11	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
13	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
14	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
15	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
16	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
17	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
19	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
20	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
21	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
22	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
23	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
25	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
26	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
27	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
29	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	.000	---	---	---	---	---	.000	.000	.000	.000	.000	.000
MAX	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
(†)	0.00										2.92	

(†) Total rainfall accumulation in inches.

RIO GRANDE BASIN

08330000 RIO GRANDE AT ALBUQUERQUE, NM

LOCATION.--Lat 35°05'21", long 106°40'48", Bernalillo County, Hydrologic Unit 13020203, in Atrisco Grant, on downstream side of Central Ave. Bridge in Albuquerque, and at mile 1,540.0.
DRAINAGE AREA.--17,440 mi², approximately, including 2,940 mi² in closed basin in San Luis Valley, CO.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1941 to current year. Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS.--WSP 1312: 1946(M).

GAGE.--Water-stage recorder. Datum of gage is 4,946.16 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 18, 1947, at various sites at datum about 2.00 ft higher; Sept. 15, 1982, to Sept. 20, 1983, at site 1.0 mi upstream at different datum.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Flow completely regulated since November 1973 by Cochiti Dam (station 08317300) 50 mi upstream. Possible regulation by operation of reservoirs on Rio Chama and by flood and silt-detention reservoirs on Galisteo Creek and Jemez River (stations 08285000, 08286900, 08317900, 08328500). Since May 1971 flow affected by release of transmountain water from Heron Reservoir (station 08284510). Diversions upstream from station for irrigation of about 718,000 acres, several hundred of which are downstream from station. National Weather Service gage-height telemeter, and U.S. Army Corps of Engineers satellite telemeter at station. No flow at times.

COOPERATION.--Records for Albuquerque Riverside drain and Arenal, Armiijo, and Atrisco canals provided by Middle Rio Grande Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	382	975	1310	1000	888	930	1400	3740	4240	2100	582	442
2	361	887	1350	990	817	1040	1660	3350	5160	1230	867	880
3	382	1080	1330	1020	731	1180	1980	3440	5300	954	656	866
4	382	1230	1340	1010	707	1200	2020	3200	5300	908	573	767
5	384	1130	1220	958	778	1220	2010	3160	3820	814	517	588
6	377	1240	1260	936	954	1210	2200	3340	3710	745	493	649
7	467	1300	1400	909	991	1280	2360	4260	3970	677	546	754
8	519	1330	1470	904	909	1450	2420	4390	4680	615	591	499
9	577	1250	1500	902	852	1630	2430	4420	4970	568	779	407
10	594	1240	1380	897	888	1580	2410	4470	5160	591	501	410
11	597	1240	1450	919	868	1430	2460	5230	4680	624	448	424
12	589	1250	1530	930	866	1310	2610	6250	4540	627	443	404
13	596	1380	1610	911	849	1290	2700	5030	4600	626	402	487
14	564	1560	1450	840	809	980	2650	5520	4640	626	429	696
15	525	1300	1390	819	788	718	2920	5430	4790	608	1650	800
16	502	1360	1430	829	788	699	3080	5360	5010	640	1920	606
17	593	1430	1390	820	824	943	2990	5100	4950	698	1480	461
18	609	1450	1350	810	870	1130	3050	5160	5020	856	1070	424
19	583	1360	1340	867	902	1200	3630	5270	5040	748	439	430
20	533	1250	1310	876	905	1260	3920	5090	4880	785	321	410
21	465	1250	1280	847	945	1410	3750	4910	4960	841	588	398
22	458	1260	1320	825	980	1780	4100	5310	4880	1030	726	406
23	453	1270	1410	816	887	1970	4060	5480	4940	975	992	410
24	447	1320	1340	842	843	1910	4140	5500	4830	763	639	403
25	436	1380	1140	858	855	1870	4630	5760	4960	559	536	462
26	459	1390	1030	891	798	1890	4560	5520	4890	467	694	438
27	467	1390	937	898	763	1780	4590	5170	4790	558	832	383
28	435	1360	865	914	933	1670	4720	4920	4640	645	584	378
29	438	1180	942	892	---	1270	3800	3840	4480	629	452	376
30	493	1110	993	898	---	1290	3620	3660	2790	743	400	385
31	597	---	1000	897	---	1470	---	3630	---	693	423	---
TOTAL	15264	38152	40067	27725	23988	41990	92870	144910	140620	23943	21573	15443
MEAN	492	1272	1292	894	857	1355	3096	4675	4687	772	696	515
MAX	609	1560	1610	1020	991	1970	4720	6250	5300	2100	1920	880
MIN	361	887	865	810	707	699	1400	3160	2790	467	321	376
AC-FT	30280	75670	79470	54990	47580	83290	184200	287400	278900	47490	42790	30630
(†)	14740	1100	845	740	666	12070	16200	16830	15860	17040	16390	15080

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1994, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
MEAN	403	962	1068	953	1077	1321	2313	3391	3027	1555	795	574									
MAX	1291	2302	2276	2159	3562	2790	6343	6203	6113	5439	3452	1554									
(WY)	1987	1987	1987	1986	1986	1986	1985	1980	1983	1979	1986	1986									
MIN	38.4	145	480	486	590	480	137	148	336	287	278	51.4									
(WY)	1978	1990	1975	1977	1978	1977	1977	1977	1989	1974	1978	1974									

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1974 - 1994
ANNUAL TOTAL	725571	626545	
ANNUAL MEAN	1988	1717	1453
HIGHEST ANNUAL MEAN			2486
LOWEST ANNUAL MEAN			356
HIGHEST DAILY MEAN	7000	Jun 5	8650
LOWEST DAILY MEAN	361	Oct 2	.00
ANNUAL SEVEN-DAY MINIMUM	379	Sep 30	.00
INSTANTANEOUS PEAK FLOW		7050	b25000
INSTANTANEOUS PEAK STAGE		6.65	7.82
ANNUAL RUNOFF (AC-FT)	1439000	1243000	1053000
10 PERCENT EXCEEDS	4780	4750	3690
50 PERCENT EXCEEDS	1250	993	841
90 PERCENT EXCEEDS	560	453	248

a-Average discharge for 33 years (water year 1942-74), 1,440 ft³/s, 1,043,000 acre-ft, prior to closure of Cochiti Dam.

b-From rating curve extended above 13,900 ft³/s.

(†) COMBINED FLOW, IN ACRE-Feet, OF ALBUQUERQUE RIVERSIDE DRAIN, AND ARENAL, ARMIJO AND ATRISCO CANALS. THIS FLOW, WHICH BYPASSES RIVER GAGE, CAN BE ADDED TO RIVER RECORDS TO GET THE ENTIRE FLOW IN VALLEY CROSS SECTION.

RIO GRANDE BASIN

08330000 RIO GRANDE AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD --Water years 1969 to present year.

SPECIFIC CONDUCTANCE: October 1969 to current year.

WATER TEMPERATURE: October 1969 to current year.

SUSPENDED-SEDIMENT DISCHARGE: May 1969 to September 1969 (partial-record station), October 1969 to current year.

REMARKS.--Daily sediment total-loads were calculated for one day of nearly every month. Daily total-load values were determined using equation from double-mass relationship plot for period of record. Once-daily temperature readings were made by field observer, and once-daily specific conductance values were determined in the laboratory from daily suspended sediment samples.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,840 microsiemens, Oct. 12, 1974; minimum daily, 115 microsiemens, Aug. 14, 1980.

WATER TEMPERATURE: Maximum daily, 34.0 °C, July 12, 1970; minimum daily, 0.0 °C on many days during winter periods.

SEDIMENT CONCENTRATION: Maximum daily mean, 45,500 mg/L, July 21, 1971; minimum daily mean, no flow on many days in 1971, 1972, and 1977.

SEDIMENT LOAD: Maximum daily, 275,000 tons, July 27, 1971; minimum daily, 0 ton on many days in 1971, 1972, and 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, undetermined; minimum daily, undetermined.

WATER TEMPERATURE: Maximum daily, undetermined; minimum daily, undetermined.

SEDIMENT CONCENTRATION: Maximum daily mean, 11,500 mg/L, July 1; minimum daily mean, 50 mg/L, Oct. 21.

SEDIMENT LOAD: Maximum daily, 120,000 tons, May 23; minimum daily, 59 tons, Oct. 5.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	STREAM WIDTH (FT) (00004)	STREAM DEPTH, MEAN (FT) (00064)	STREAM VELOC- ITY, MEAN (F/S) (00055)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DISCH, SUSP. + BED MA- TERIAL (T/DAY) (80156)		
JUN 1994	01...	1400	4560	<0.010						
NOV 1993	10...	1030	1270	307	1.8	2.33	9.0	194	665	1020
DEC 06...	1330	1320	--	--	--	6.0	110	392	615	
JAN 1994	10...	1230	898	285	1.5	2.16	7.0	42	102	167
FEB 07...	1520	960	--	--	--	6.0	67	174	280	
MAR 01...	1245	769	240	1.5	2.78	9.5	47	98	161	
APR 01...	1000	1370	290	1.9	2.47	9.5	151	559	865	
MAY 02...	1030	3300	318	3.1	3.36	17.0	317	2820	447	
JUN 13...	1130	5030	330	4.2	3.67	18.0	143	1940	2870	
27...	1500	4860	327	4.0	3.68	23.0	382	5010	7190	
AUG 04...	1120	588	199	1.8	1.64	22.0	1660	2640	3870	
SEP 02...	1100	982	314	1.5	2.13	25.5	11500	30500	41100	
30...	1015	383	161	1.4	1.73	17.0	108	112	183	

RIO GRANDE BASIN

08330000 RIO GRANDE AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
NOV 1993									
10...	--	--	--	--	41	53	89	100	--
DEC									
06...	--	--	--	--	56	74	90	100	--
JAN 1994									
10...	--	--	--	--	62	79	100	--	--
FEB									
07...	--	--	--	--	45	72	97	100	--
MAR									
01...	--	--	--	--	80	90	96	100	--
APR									
01...	--	--	--	--	41	52	82	100	--
MAY									
02...	--	--	--	--	38	47	70	99	100
JUN									
13...	--	--	--	--	57	94	97	100	--
27...	--	--	--	--	21	34	66	100	--
AUG									
04...	60	76	89	94	98	99	99	100	--
SEP									
02...	63	83	86	97	100	--	--	--	--
30...	--	--	--	--	85	88	96	100	--
DATE	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM (80165)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM (80166)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM (80167)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)
NOV 1993									
10...	--	--	--	--	--	--	--	--	--
DEC									
06...	10	22	50	91	98	99	100	--	--
JAN 1994									
10...	1	1	11	70	93	98	100	--	--
FEB									
07...	1	9	62	95	100	--	--	--	--
MAR									
01...	0	2	21	67	92	98	100	--	--
APR									
01...	--	0	6	40	72	87	96	99	100
MAY									
02...	0	1	10	48	79	92	97	99	100
JUN									
13...	3	35	99	100	--	--	--	--	--
27...	0	1	14	63	94	99	100	--	--
AUG									
04...	1	3	18	68	93	98	100	--	--
SEP									
02...	0	1	6	71	98	99	100	--	--
30...	--	0	11	56	84	93	98	100	--

RIO GRANDE BASIN

08330000 RIO GRANDE AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

Specific conductance, $\mu\text{S}/\text{cm}$ @ 25 degrees centigrade, which year includes 1993 to September 1994
Daily instantaneous values

[illegible]

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

[illegible]

RIO GRANDE BASIN

08330000 RIO GRANDE AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	102	105	968	2550	301	1060	84	227	96	230	368	924
2	91	89	941	2250	271	988	103	275	90	199	349	980
3	117	121	836	2440	221	794	124	341	79	156	326	1040
4	68	70	521	1730	212	767	113	308	66	126	249	807
5	57	59	352	1070	196	646	91	235	97	204	223	735
6	63	64	1180	3960	360	1220	89	225	159	410	244	797
7	175	221	1030	3600	444	1680	95	233	119	318	260	899
8	144	202	930	3340	379	1500	97	237	73	179	208	814
9	127	198	915	3090	445	1800	95	231	67	154	316	1390
10	108	173	921	3080	530	1970	104	252	62	149	342	1460
11	84	135	517	1730	435	1700	115	285	60	141	272	1050
12	86	137	159	537	307	1270	103	259	67	157	225	796
13	91	146	217	809	252	1100	86	212	71	163	186	648
14	122	186	654	2750	228	893	89	202	64	140	160	423
15	83	118	156	548	142	533	98	217	70	149	151	293
16	81	110	276	1010	140	541	95	213	69	147	171	323
17	134	215	189	730	157	589	95	210	74	165	246	626
18	93	153	144	564	168	612	93	203	67	157	212	647
19	70	110	165	606	156	564	109	255	65	158	206	667
20	61	88	176	594	145	513	103	244	63	154	210	714
21	50	63	180	607	134	463	79	181	69	176	257	978
22	53	66	208	708	201	716	83	185	90	238	425	2040
23	51	62	234	802	190	723	106	234	84	201	523	2780
24	53	64	211	752	191	691	119	271	80	182	436	2250
25	101	119	531	1980	187	576	97	225	86	199	323	1630
26	133	165	607	2280	152	423	89	214	90	194	254	1300
27	140	177	496	1860	109	276	92	223	95	196	208	1000
28	100	117	503	1850	87	203	127	313	212	534	173	780
29	83	98	433	1380	97	247	135	325	---	---	159	545
30	123	164	267	800	90	241	120	291	---	---	171	596
31	160	258	---	---	79	213	101	245	---	---	201	798
TOTAL	---	4053	---	50007	---	25512	---	7571	---	5576	---	30730

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	167	631	1820	18300	1270	14500	11500	65400	193	303	652	778
2	307	1380	439	3970	1560	21700	4250	14100	1460	3420	4210	9990
3	416	2220	4270	39700	737	10500	2480	6380	1290	2280	2300	5380
4	358	1950	4920	42500	541	7740	1800	4410	701	1080	2280	4730
5	375	2040	2160	18400	969	9990	1560	3430	331	462	670	1060
6	554	3290	468	4220	1600	16000	1910	3830	388	516	487	853
7	690	4400	4070	46800	3480	37300	2780	5090	740	1090	1980	4030
8	699	4570	3550	42100	5780	73000	3490	5800	3420	5450	1040	1410
9	532	3490	1740	20800	7880	106000	2310	3540	7950	16700	179	197
10	487	3170	2170	26100	7250	101000	1170	1870	6140	8310	233	258
11	816	5420	2820	39800	3180	40200	601	1010	2170	2620	323	370
12	3630	25600	1660	28000	941	11500	503	852	278	333	153	167
13	6130	44700	723	9820	301	3740	581	982	193	209	1220	1610
14	6200	44400	2780	41500	213	2670	741	1250	279	323	4100	7700
15	8090	63800	7300	107000	368	4760	854	1400	3020	13400	3540	7650
16	7700	64000	5830	84300	442	5980	772	1330	1930	10000	1450	2370
17	3420	27600	2840	39100	499	6670	529	997	1020	4080	521	648
18	519	4270	1840	25600	596	8080	270	624	658	1900	334	382
19	1590	15600	1450	20600	2100	28500	263	531	428	507	230	267
20	1110	11700	1420	19400	5380	70800	416	882	310	269	186	206
21	711	7200	3170	42000	6670	89300	454	1030	700	1110	170	183
22	701	7760	6810	97700	6400	84400	619	1720	379	743	164	180
23	877	9610	8100	120000	6380	85000	631	1660	1030	2750	148	164
24	905	10100	3640	54100	6400	83500	537	1110	302	521	128	139
25	4090	51200	857	13300	6040	80900	111	168	188	272	148	185
26	4270	52500	2400	35700	6080	80300	60	76	1060	1990	137	162
27	3880	48100	2230	31100	4350	56300	467	704	1960	4400	134	139
28	3530	45000	1340	17800	1680	21100	1060	1850	945	1490	148	151
29	3370	34600	741	7680	467	5650	1330	2250	328	400	128	130
30	2960	28900	439	4340	10700	80300	831	1670	267	288	131	136
31	---	---	242	2370	---	---	617	1150	387	442	---	---
TOTAL	---	629201	---	1104100	---	1247380	---	137096	---	87658	---	51625
TOTAL LOAD FOR YEAR:		3380509	TONS.									

RIO GRANDE BASIN

08330150 RIO GRANDE AT RIO BRAVO BRIDGE NEAR ALBUQUERQUE, NM

LOCATION.--Lat 35°01'59", long 106°40'23", Bernalillo County, Hydrologic Unit 13020203, in Atrisco Grant on right bank 200 ft upstream from Rio Bravo Boulevard Bridge near Albuquerque, and at mile 1.535.1.

STATION AREA.--7.27 SQ. MI. (approximately). Elevation 5,277 ft in closed basin in San Luis Valley, CO.

PERIOD OF RECORD.--January 1991 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,930 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. Flow completely regulated since November 1973 by Cochiti Dam (station 08317300) 53 mi upstream. Possible regulation by operation of reservoirs on Rio Chama and by flood and silt-detention reservoirs on Galisteo Creek and Jemez River (stations 08285000, 08286900, 08317900, 08328500). Since May 1971 flow affected by release of transmountain water from Heron Reservoir (station 08284510). Diversions upstream from station for irrigation of about 718,000 acres, several hundred of which are downstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	353	778	1260	1030	912	886	1430	3570	4000	2300	e550	407
2	338	757	1340	1020	836	981	1650	3200	4980	1510	e630	771
3	334	889	1290	1050	746	1070	2050	3240	5200	1040	e600	867
4	326	1030	1310	1030	715	1130	2160	3020	5250	939	e550	731
5	327	1070	1220	967	763	1160	2210	2950	3710	838	493	548
6	324	1160	1180	901	892	1210	2450	3090	3440	759	447	610
7	371	1240	1310	842	941	1270	2660	4000	3650	695	510	677
8	417	1260	1350	804	849	1450	2670	4240	4430	657	508	550
9	455	1180	1390	794	786	1620	2590	4330	4860	598	790	411
10	461	1120	1310	792	823	1650	2570	4410	5070	572	509	405
11	450	1110	1310	831	806	1550	2610	5160	4620	558	440	404
12	450	1130	1350	847	787	1400	2760	6970	4430	557	403	376
13	471	1170	1390	824	788	1350	2840	5290	4460	554	355	438
14	469	1370	1330	754	767	1080	2770	5680	4500	552	372	612
15	457	1170	1260	724	759	777	2970	5650	4630	541	1670	777
16	440	1180	1310	741	806	726	3140	5750	4860	512	1830	584
17	494	1240	1290	744	843	932	3020	5350	4750	581	1600	440
18	513	1260	1250	756	874	1120	3020	5360	4660	799	1110	390
19	492	1200	1200	830	921	1210	3570	5460	4720	762	551	375
20	457	1110	1120	841	910	1260	3950	5290	4640	746	313	358
21	398	1110	1120	778	930	1370	3790	5000	4690	828	547	355
22	388	1100	1190	770	966	1660	4140	5460	4790	1060	714	370
23	374	1150	1340	789	898	1880	4100	5730	4830	925	994	379
24	365	1270	1380	846	816	1870	4180	5780	4730	799	691	364
25	365	1370	1270	891	828	1820	4840	6120	4850	e540	509	411
26	383	1420	1120	891	795	1880	4900	5850	4810	e450	637	410
27	386	1460	1010	869	764	1780	4970	5390	4750	e540	816	353
28	354	1430	884	866	885	1670	4850	5020	4630	e600	577	334
29	357	1240	946	875	---	1290	3610	3810	4490	e610	451	328
30	390	1120	998	928	---	1290	3430	3510	3020	e710	368	325
31	450	---	1020	947	---	1430	---	3430	---	e660	373	---
TOTAL	12609	35094	38048	26572	23406	41772	95900	147110	136450	23792	20908	14360
MEAN	407	1170	1227	857	836	1347	3197	4745	4548	767	674	479
MAX	513	1460	1390	1050	966	1880	4970	6970	5250	2300	1830	867
MIN	324	757	884	724	715	726	1430	2950	3020	450	313	325
AC-FT	25010	69610	75470	52710	46430	82850	190200	291800	270600	47190	41470	28480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1994, BY WATER YEAR (WY)

	MEAN	386	995	1065	947	896	1344	3166	4351	4153	1053	887	721
MAX	407	1170	1227	1115	1190	1645	3754	4956	5345	1438	1413	912	
(WY)	1994	1994	1994	1993	1993	1993	1992	1993	1993	1993	1991	1993	
MIN	348	687	775	857	686	1179	2333	3130	2726	602	674	479	
(WY)	1992	1993	1993	1994	1992	1992	1991	1991	1992	1992	1994	1994	

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1991 - 1994
ANNUAL TOTAL	715519	616021	
ANNUAL MEAN	1960	1688	1699
HIGHEST ANNUAL MEAN			1882
LOWEST ANNUAL MEAN			1528
HIGHEST DAILY MEAN	6970	Jun 4	6970
LOWEST DAILY MEAN	324	Oct 6	257
ANNUAL SEVEN-DAY MINIMUM	338	Sep 30	279
INSTANTANEOUS PEAK FLOW			7280
INSTANTANEOUS PEAK STAGE			6.61
ANNUAL RUNOFF (AC-FT)	1419000	1222000	1231000
10 PERCENT EXCEEDS	4700	4700	4270
50 PERCENT EXCEEDS	1180	1020	1050
90 PERCENT EXCEEDS	470	405	440

e Estimated

RIO GRANDE BASIN

08330540 TRAMWAY FLOODWAY CHANNEL AT ALBUQUERQUE, NM

LOCATION.--Lat 35°04'43", long 106°29'51", Bernalillo County, Hydrologic Unit 13020203, on right bank 300 ft downstream from Copper Boulevard Bridge, near corner of Tramway and Copper Boulevards NE in Albuquerque.

DRAINAGE AREA.--1.60 mi².

PERIOD OF RECORD.--July 1987 to current year (no winter record).

GAGE.--Water-stage recorder and concrete-lined channel. Elevation of gage is 5,760 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. Some minor streamflow may exist on days where daily mean discharges have been recorded as zero due to the sensitivity limits of the streamflow monitoring equipment.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,250 ft³/s, July 9, 1988, gage height, 7.62 ft, from floodmarks, from step-backwater analysis of channel; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40 ft³/s, at 2200 hours Nov. 11, gage height 0.48 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	---	.00	.00	.00	.00	.00
2	.00	.00	---	---	---	---	---	.00	.00	.00	.00	.00
3	.00	.00	---	---	---	---	---	.00	.00	.00	.00	.00
4	.00	.00	---	---	---	---	---	.00	.00	.00	.00	.00
5	.00	.00	---	---	---	---	---	1.5	.00	.00	.00	.00
6	.00	.00	---	---	---	---	---	.49	.00	.00	.00	.00
7	.77	.00	---	---	---	---	---	.00	.00	.00	.00	.00
8	.45	.00	---	---	---	---	---	.00	.00	.00	.00	.00
9	.00	.00	---	---	---	---	---	.00	.00	.00	.00	.00
10	.00	.00	---	---	---	---	---	.00	.00	.00	.00	.00
11	.00	.77	---	---	---	---	---	.00	.00	.00	.00	.00
12	.00	.00	---	---	---	---	---	.00	.00	.00	.00	.00
13	.00	.00	---	---	---	---	---	.00	.00	.00	.00	.00
14	.00	.00	---	---	---	---	---	.00	.00	.00	.00	.00
15	.00	.00	---	---	---	---	---	.00	.00	.00	.00	.00
16	.00	.00	---	---	---	.00	---	.00	.00	.00	.00	.00
17	.26	.00	---	---	---	.00	---	.00	.00	.00	.00	.00
18	.00	.00	---	---	---	.00	---	.00	.00	.00	.00	.00
19	.00	---	---	---	---	---	---	.00	.00	.00	.00	.00
20	.00	---	---	---	---	---	---	.00	.00	.00	.00	.00
21	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
22	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
23	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
24	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
25	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
26	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
27	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
28	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
29	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
30	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
31	.00	---	---	---	---	---	---	.00	---	.00	.00	---
TOTAL	1.48	---	---	---	---	---	---	1.99	0.00	0.00	0.00	0.00
MEAN	.048	---	---	---	---	---	---	.064	.000	.000	.000	.000
MAX	.77	---	---	---	---	---	---	1.5	.00	.00	.00	.00
MIN	.00	---	---	---	---	---	---	.00	.00	.00	.00	.00
AC-FT	2.9	---	---	---	---	---	---	3.9	.00	.00	.00	.00

RIO GRANDE BASIN

08330565 ARROYO DEL COYOTE NEAR ALBUQUERQUE, NM

LOCATION.--Lat 35°00'55", long 106°32'18", in NE¼NE¼ sec. 17, T. 9 N., R. 4 E., Bernalillo County Hydrologic Unit 13020203, on left bank 0.6 mi downstream from Pennsylvania Ave., 2.0 mi upstream from confluence with Tijeras Arroyo, and 2.5 southeast of Kirtland Air Force Base.

DRAINAGE AREA.--33.0 mi².

PERIOD OF RECORD.--September 1989 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 5,370 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Record good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 666 ft³/s, Sept. 6, 1991, gage height, 3.95 ft, from floodmarks, from step-backwater analysis of channel; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 97 ft³/s, at 1940 hours Aug. 26, 1994, gage height 1.94 ft, from step-backwater analysis of channel; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	.00	.00	.52	.00
2	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
3	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
4	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
5	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
6	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
7	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
9	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
10	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
11	.00	.00	---	---	---	---	.00	.02	.00	.00	.00	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
13	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
14	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
15	.00	---	---	---	---	.00	.00	.00	.00	.00	2.7	.00
16	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
17	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
19	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
20	.00	---	---	---	---	.00	.00	.00	.00	.00	1.1	.00
21	.00	---	---	---	---	.00	.00	.00	.00	.00	.01	.00
22	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
23	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
25	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
26	.00	---	---	---	---	.00	.00	.24	.00	.00	1.4	.00
27	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
29	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.00	.00	---
TOTAL	---	---	---	---	---	---	0.00	0.26	0.00	0.00	5.73	0.00
MEAN	---	---	---	---	---	---	.000	.008	.000	.000	.18	.000
MAX	---	---	---	---	---	---	.00	.24	.00	.00	2.7	.00
MIN	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	.00	.5	.00	.00	11	.00

RIO GRANDE BASIN

08330567 ARROYO DEL COYOTE AT MOUTH NEAR ALBUQUERQUE, NM

LOCATION.--Lat 35°01'20", long 106°33'00", in NW¼SW¼, sec. 8, T. 9 N., R. 4 E., Bernalillo County, Hydrologic Unit 13020203, on left bank 2,000 ft upstream from confluence with Tijeras Arroyo, 1.5 mi downstream from Pennsylvania Ave., and 1.5 mi south of Kirtland Air Force Base.

DRAINAGE AREA.--39.0 mi².

PERIOD OF RECORD.--September 1989 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 5,290 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 500 ft³/s, Aug. 15, 1994, gage height, 4.00 ft, from floodmarks, from step-backwater analysis of channel; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 500 ft³/s at 0055 hours Aug. 15, 1994, gage height 4.00 ft, from floodmarks, from step-backwater analysis of channel, no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	.00	.00	1.1	---
2	.00	.00	---	---	---	---	.00	.00	.00	.00	---	---
3	.00	.00	---	---	---	---	.00	.00	.00	.00	---	---
4	.00	.00	---	---	---	---	.00	.00	.00	.00	---	---
5	.00	.00	---	---	---	---	.00	.00	.00	.00	---	---
6	.00	.00	---	---	---	---	.00	.00	.00	.00	---	---
7	.00	.00	---	---	---	---	.00	.00	.00	.00	---	---
8	.00	.00	---	---	---	---	.00	.00	.00	.00	---	---
9	.00	.00	---	---	---	---	.00	.00	.00	.00	---	---
10	.00	.00	---	---	---	---	.00	.00	.00	.00	---	---
11	.00	.00	---	---	---	---	.00	1.1	.00	.00	.00	---
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
13	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	---
14	.00	.00	---	---	---	---	.00	.00	.00	.00	.02	---
15	.00	.00	---	---	---	.00	.00	.00	.00	.00	13	---
16	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
19	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
20	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
21	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
22	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
23	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
25	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
26	.00	---	---	---	---	.00	.00	.83	.00	.00	---	.00
27	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
29	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	---	.00
31	.00	---	---	---	---	.00	---	.00	---	.00	---	---
TOTAL	0.00	---	---	---	---	---	0.00	1.93	0.00	0.00	---	---
MEAN	.000	---	---	---	---	---	.000	.062	.000	.000	---	---
MAX	.00	---	---	---	---	---	.00	1.1	.00	.00	---	---
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	---	---
AC-FT	.00	---	---	---	---	---	.00	3.8	.00	.00	---	---

RIO GRANDE BASIN

08330569 TIJERAS ARROYO BELOW ARROYO DEL COYOTE NEAR ALBUQUERQUE, NM

LOCATION.--Lat 35°01'37", long 106°33'48", in NW¼NE¼, sec. 7, T.9N., R.4 E., Bernalillo County, Hydrologic Unit 13020203 on right bank 1.2 mi south of Kirtland Air Force Base and 2.3 mi southeast of intersection of Gibson Boulevard and Louisiana Boulevard.

DRAINAGE AREA.--121 mi².

PERIOD OF RECORD.--July 1989 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 5,240 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 944 ft³/s, Aug. 11, 1992, Sept. 6, 1991; gage height, 6.90 ft, from floodmarks, from rating curve extended above 20 ft³/s on basis of slope-area measurements at gage heights 4.18 ft and 6.90 ft; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 650 ft³/s, at 0130 hours Aug. 15, gage height, 6.31 ft, from floodmarks, from rating curve extended on basis of slope-area measurements at gage heights 4.18 ft and 6.90 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	.00	.00	5.9	.00
2	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
3	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
4	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
5	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
6	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
7	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	.00	.00	.14	.00
9	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
10	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
11	.00	.00	---	---	---	---	.00	7.7	.00	.00	.00	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
13	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
14	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	---	---	---	.00	.00	.00	.00	.00	34	.00
16	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	---	---	---	.00	.00	.00	1.3	.00	.00	.00
19	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
20	.00	---	---	---	---	.00	.00	.00	.00	.00	.78	.00
21	.00	---	---	---	---	.00	.00	.00	4.1	.00	.00	.00
22	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
23	.00	---	---	---	---	.00	.00	.00	.00	.01	.00	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
25	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
26	.00	---	---	---	---	.00	.00	.25	.00	.00	.10	.00
27	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.09	.00	.00
29	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	---	---	---	---	---	0.00	7.95	5.40	0.10	40.92	0.00
MEAN	.0000	---	---	---	---	---	.0000	.26	.18	.003	1.32	.0000
MAX	.00	---	---	---	---	---	.00	7.7	4.1	.09	34	.00
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	16	11	.2	81	.00

RIO GRANDE BASIN

08330580 TIJERAS ARROYO AT MONTESSA PARK NEAR ALBUQUERQUE, NM

LOCATION.--Lat 35°01'19", long 106°35'40", Bernalillo County, Hydrologic Unit 13020203, on left bank 3.1 mi upstream from highway bridge on Interstate 25, and 3.5 mi south of Albuquerque.

DRAINAGE AREA.--122 mi².

PERIOD OF RECORD.--August 1987 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 5,140 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records poor. Recording rain gage at station. See tabulation below for monthly precipitation in inches. No flow most of time.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,090 ft³/s, July 9, 1988, gage height, 4.60 ft, from slope-area measurement of peak flow; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 889 ft³/s, at 0130 hours Aug. 15, gage height, 3.28 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	.00	.00	14	.00
2	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
3	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
4	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
5	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
6	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
7	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
9	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
10	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
11	.00	.00	---	---	---	---	.00	24	.00	.00	.00	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
13	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
14	.00	.00	---	---	---	.00	.00	.00	.00	.00	.10	.00
15	.00	.00	---	---	---	.00	.00	.00	.00	.00	82	.00
16	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	---	---	---	.00	.00	.00	6.5	.00	.00	2.3
19	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
20	.00	---	---	---	---	.00	.00	.00	.00	.00	4.4	.00
21	.00	---	---	---	---	.00	.00	.00	9.1	.00	.00	.00
22	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
23	.00	---	---	---	---	.00	.00	.00	.00	3.0	.00	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
25	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
26	.00	---	---	---	---	.00	.00	4.1	.00	.00	.00	.00
27	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	2.3	.00	.00
29	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	---	---	---	---	---	0.00	28.10	15.60	5.30	100.50	2.30
MEAN	.000	---	---	---	---	---	.000	.91	.52	.17	3.24	.077
MAX	.00	---	---	---	---	---	.00	24	9.1	3.0	82	2.3
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	56	31	11	199	4.6
(†)	0.33	0.90	0.03	0.01	0.25	0.54	0	0.33	---	---	---	---

(†) Total rainfall accumulation in inches.

RIO GRANDE BASIN

08330600 TIJERAS ARROYO NEAR ALBUQUERQUE, NM

LOCATION.--Lat 35°00'09", long 106°38'57", in SW¼SW¼ sec.17, T.9 N., R.3 E., Bernalillo County, Hydrologic Unit 13020203, on left bank 800 ft upstream from bridge on Broadway Boulevard SE, 0.2 mi downstream from bridge on Interstate Highway 25, and 3.0 mi south of Albuquerque.

PERIOD OF RECORD.--October 1951 to September 1968 (annual maximum only), August 1974 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 5,000 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Mar. 10, 1988, at site 1,700 ft downstream at different datum.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,930 ft³/s, July 9, 1988, gage height, 9.6 ft, from floodmarks, from slope-area measurement of peak flow; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 181 ft³/s, at 0845 hours July 20, gage height, 3.76 ft from rating curve extended above 10 cfs on basis of step-backwater analysis of channel; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
2	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
3	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
4	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
5	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
6	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
7	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
9	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
10	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
11	.00	.00	---	---	---	---	.00	32	.00	.00	.00	.00
12	.00	.00	---	---	---	---	.00	1.3	.00	.00	.00	.00
13	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
14	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	---	---	---	.00	.00	.00	.00	.00	113	.00
16	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	---	---	---	.00	.00	.00	.00	2.6	.00	.00
18	.00	.00	---	---	---	.00	.00	.00	16	.00	.00	3.3
19	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
20	.00	---	---	---	---	.00	.00	.00	.00	.00	4.2	.00
21	.00	---	---	---	---	.00	.00	.00	15	.00	.00	.00
22	.00	---	---	---	---	.00	.00	3.5	.00	.87	.00	.00
23	.00	---	---	---	---	.00	.00	.00	.00	3.9	.00	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
25	.00	---	---	---	---	.00	.00	6.7	.00	.00	.00	.00
26	.00	---	---	---	---	.00	.00	12	.00	.00	.00	.00
27	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	3.8	.00	.00
29	.00	---	---	---	---	.00	.00	.00	.00	6.5	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	---	---	---	---	---	0.00	55.50	31.00	17.67	117.20	3.30
MEAN	.000	---	---	---	---	---	.000	1.79	1.03	.57	3.78	.11
MAX	.00	---	---	---	---	---	.00	32	16	6.5	113	3.3
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	110	61	25	232	6.5

08330775 SOUTH DIVERSION CHANNEL ABOVE TIJERAS ARROYO NEAR ALBUQUERQUE, NM

LOCATION.--Lat 35°00'09", long 106°39'02", Bernalillo County, Hydrologic Unit 13020203, on right bank 600 ft upstream from confluence with Tijeras Arroyo, and 2.5 mi south of Albuquerque.

DRAINAGE AREA.--11.0 mi².

PERIOD OF RECORD.--June 1988 to current year (no winter record).

GAGE.--Water stage recorder and concrete control. Elevation of gage is 4,930 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,960 ft³/s, July 14, 1990, gage height, 6.30 ft from floodmarks, from rating curve extended above 30 cfs on basis of step-backwater analysis of channel; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,030 ft³/s, at 0100 hours Aug. 15, gage height, 4.32 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	---	---	---	---	---	---	.00	9.4	.00	1.0	.00
2	.00	---	---	---	---	---	---	.00	5.3	.00	6.9	.00
3	.00	---	---	---	---	---	---	.00	.00	.00	.80	.00
4	.00	---	---	---	---	---	---	.00	.00	.00	.00	2.5
5	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
6	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
7	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
8	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
9	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
10	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
11	---	---	---	---	---	---	---	3.0	.00	.00	.00	.00
12	---	---	---	---	---	---	---	5.2	.00	.00	.00	.00
13	.00	6.4	---	---	---	---	---	.26	.00	.00	.00	.00
14	.00	2.7	---	---	---	.00	---	.00	.00	.00	.00	---
15	.00	---	---	---	---	.00	---	.00	.00	.00	63	---
16	.00	---	---	---	---	.00	---	.00	.00	.00	.92	---
17	4.0	---	---	---	---	.00	---	.00	.00	.12	.00	---
18	3.0	---	---	---	---	.26	---	.00	.00	.40	.00	---
19	.00	---	---	---	---	.00	---	.00	.00	.00	.00	---
20	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	---
21	.00	---	---	---	---	.00	.00	.00	12	.00	.00	---
22	.00	---	---	---	---	.00	.00	.00	17	.00	.00	---
23	.00	---	---	---	---	.00	.00	.00	8.6	.00	.00	---
24	.00	---	---	---	---	.00	.00	.00	.90	.00	.00	---
25	.00	---	---	---	---	---	.00	15	.00	.00	.00	---
26	.00	---	---	---	---	---	.00	20	.00	.00	.00	---
27	---	---	---	---	---	---	.00	7.4	.00	.00	.00	---
28	---	---	---	---	---	---	.00	4.3	.00	.18	.00	---
29	---	---	---	---	---	---	.00	5.9	.00	.80	.00	---
30	---	---	---	---	---	---	.00	6.3	.00	2.9	.00	---
31	---	---	---	---	---	---	---	1.6	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	68.96	53.20	4.40	72.62	---
MEAN	---	---	---	---	---	---	---	2.22	1.77	.14	2.34	---
MAX	---	---	---	---	---	---	---	20	17	2.9	63	---
MIN	---	---	---	---	---	---	---	.00	.00	.00	.00	---
AC-FT	---	---	---	---	---	---	---	137	106	8.7	144	---

RIO GRANDE BASIN

08330775 SOUTH DIVERSION CHANNEL ABOVE TIJERAS ARROYO NEAR ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- Water years 1974 to current year.

REMARKS.--Selected composite samples were collected from the diversion channel.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)*	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)*	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31616)*	STREP-TOCOCCI FECAL (MPN) (31677)*
OCT 1993												
17...	1830	--	--	18	183	7.3	17.0	13.0	--	--	7000	50000
OCT 17-17	1845	2115	22	--	217	7.3	--	--	48	8.0	--	--
NOV 13...	1835	--	--	61	317	7.9	7.0	8.0	--	--	5800	220000
NOV 13-13	1843	2000	80	--	186	8.0	--	--	190	64	--	--
DATE	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CaCO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RINE, TOTAL RESI-DUAL (MG/L) (50060)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
OCT 1993												
17...	--	--	--	--	--	--	--	--	<0.02	--	--	--
OCT 17-17	75	25	3.0	10	0.5	7.8	74	16	<0.02	11	144	118
NOV 13...	--	--	--	--	--	--	--	--	<0.02	--	--	--
NOV 13-13	69	23	2.9	8.2	0.4	8.2	150	12	<0.02	10	157	156
DATE	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)
OCT 1993												
17...	--	--	--	--	--	--	--	--	--	<0.010	3	<1
OCT 17-17	28	0.230	0.040	0.270	0.070	0.80	0.260	0.200	19	--	--	--
NOV 13...	--	--	--	--	--	--	--	--	--	<0.010	14	2
NOV 13-13	13	0.270	0.070	0.340	0.370	2.6	0.910	0.270	56	--	--	--
DATE	ARSENIC TOTAL (UG/L AS As) (01002)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS Be) (01012)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS Cd) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS Cr) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS Cu) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS Pb) (01051)	MERCURY TOTAL RECOV-ERABLE (UG/L AS Hg) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS Ni) (01067)	SELE-NIUM, TOTAL (UG/L AS Se) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS Ag) (01077)	THAL-LIUM, TOTAL (UG/L AS Tl) (01059)	ZINC, TOTAL RECOV-ERABLE (UG/L AS Zn) (01092)
OCT 1993												
17...	--	--	--	--	--	--	--	--	--	--	--	--
OCT 17-17	4	<10	<1	2	3	5	<0.10	2	<1	<1	<5	20
NOV 13...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 13-13	9	<10	1	13	32	85	<0.10	16	<1	<1	<10	190

* Analyses performed by City of Albuquerque Water Quality Laboratory

RIO GRANDE BASIN

08330775 SOUTH DIVERSION CHANNEL ABOVE TIJERAS ARROYO NEAR ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	ENDING TIME	DI-BROMO-METHANE WATER WHOLE RECOVER (UG/L) (30217)	DI-CHLORO-BROMO-METHANE TOTAL (UG/L) (32101)	CARBON-TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	BROMO-FORM TOTAL (UG/L) (32104)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	PHENOLS TOTAL (UG/L) (32730)	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)
OCT 17...	1830	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	3	<0.2	<0.2
OCT 17-17	1845	2115	--	--	--	--	--	--	--	--	--	--
NOV 13...	1835	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	14	<0.2	<0.2
NOV 13-13	1843	2000	--	--	--	--	--	--	--	--	--	--

DATE	ACE-NAPHTH-YLENE TOTAL (UG/L) (34200)	ACE-NAPHTH-ENE TOTAL (UG/L) (34205)	ACRO-LEIN TOTAL (UG/L) (34210)	ACRYLO-NITRILE TOTAL (UG/L) (34215)	ANTHRA-CENE TOTAL (UG/L) (34220)	BENZO B FLUOR-AN-THENE TOTAL (UG/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (UG/L) (34242)	BENZO-A-PYRENE TOTAL (UG/L) (34247)	DELTA BENZENE HEXA-CHLO-RIDE TOTAL (UG/L) (34259)	BIS-2-CHLORO-ETHYL ETHER TOTAL (UG/L) (34273)	BIS (2-CHLORO-ETHOXY) METHANE TOTAL (UG/L) (34278)	BIS (2-CHLORO-ISO-PROPYL) ETHER TOTAL (UG/L) (34283)
OCT 17...	--	--	<20	<20	--	--	--	--	--	--	--	--
OCT 17-17	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
NOV 13...	--	--	<20	<20	--	--	--	--	--	--	--	--
NOV 13-13	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0

DATE	N-BUTYL BENZYL PHTHAL-ATE TOTAL (UG/L) (34292)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHRY-SENE TOTAL (UG/L) (34320)	DIETHYL PHTHAL-ATE TOTAL (UG/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (UG/L) (34341)	ENDO-SULFAN SULFATE TOTAL (UG/L) (34351)	ENDO-SULFAN BETA TOTAL (UG/L) (34356)	ENDO-SULFAN-I WATER WHOLE REC (UG/L) (34361)	ENDRIN ALDE-HYDE TOTAL (UG/L) (34366)	ETHYL-BENZENE TOTAL (UG/L) (34371)
OCT 17...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2
OCT 17-17	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--
NOV 13...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2
NOV 13-13	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--

DATE	FLUOR-ANTHENE TOTAL (UG/L) (34376)	FLUOR-ENE TOTAL (UG/L) (34381)	HEXA-CHLORO-CYCLO-PENT-ADIENE TOTAL (UG/L) (34386)	HEXA-CHLORO-ETHANE TOTAL (UG/L) (34396)	INDENO (1,2,3-CD) PYRENE TOTAL (UG/L) (34403)	ISO-PHORONE TOTAL (UG/L) (34408)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL-ENE CHLO-RIDE TOTAL (UG/L) (34423)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (UG/L) (34428)	N-NITRO-SODI-PHENY-LAMINE TOTAL (UG/L) (34433)
OCT 17...	--	--	--	--	--	--	<0.2	<0.2	<0.2	--	--
OCT 17-17	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0
NOV 13...	--	--	--	--	--	--	<0.2	<0.2	<0.2	--	--
NOV 13-13	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0

RIO GRANDE BASIN

08330775 SOUTH DIVERSION CHANNEL ABOVE TIJERAS ARROYO NEAR ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	N-NITRO-SODI-METHY-LAMINE TOTAL (UG/L) (34438)	NITRO-BENZENE TOTAL (UG/L) (34447)	PARA-CHLORO-META-CRESOL TOTAL (UG/L) (34452)	PHENAN-THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)
OCT 17...	--	--	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
OCT 17-17	<5.0	<5.0	<30.0	<5.0	<5.0	--	--	--	--	--	--
NOV 13...	--	--	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
NOV 13-13	<5.0	<5.0	<30.0	<5.0	<5.0	--	--	--	--	--	--

DATE	ETHANE, 1,1,2,2-TETRA-CHLORO-WAT UNF REC (UG/L) (34516)	BENZOGH I PERYL ANE1,12-BENZOP-ERYLENE TOTAL (UG/L) (34521)	BENZO A ANTHRAC-ENE1,2-BENZANTHRACENE TOTAL (UG/L) (34526)	BENZENE O-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	1,2-TRANS DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (UG/L) (34556)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	2-CHLORO-ETHYL-VINYL-ETHER TOTAL (UG/L) (34576)
OCT 17...	<0.2	--	--	<0.20	<0.2	<0.2	<0.20	--	<0.20	<0.20	<1.0
OCT 17-17	--	<10.0	<10.0	<5.00	--	--	<5.0	<10.0	<5.0	<5.0	--
NOV 13...	<0.2	--	--	<0.20	<0.2	<0.2	<0.20	--	<0.20	<0.20	<1.0
NOV 13-13	--	<10.0	<10.0	<5.0	--	--	<5.0	<10.0	<5.0	<5.0	--

DATE	2-CHLORO-NAPH-THALENE TOTAL (UG/L) (34581)	2-CHLORO-PHENOL TOTAL (UG/L) (34586)	2-NITRO-PHENOL TOTAL (UG/L) (34591)	DI-N-OCTYL-PHTHAL-ATE TOTAL (UG/L) (34596)	2,4-DI-CHLORO-PHENOL TOTAL (UG/L) (34601)	2,4-DI-METHYL-PHENOL TOTAL (UG/L) (34606)	2,4-DI-NITRO-TOLUENE TOTAL (UG/L) (34611)	2,4-DI-NITRO-PHENOL TOTAL (UG/L) (34616)	2,4,6-TRI-CHLORO-PHENOL TOTAL (UG/L) (34621)	2,6-DI-NITRO-TOLUENE TOTAL (UG/L) (34626)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (UG/L) (34631)
OCT 17...	--	--	--	--	--	--	--	--	--	--	--
OCT 17-17	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0
NOV 13...	--	--	--	--	--	--	--	--	--	--	--
NOV 13-13	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0

DATE	4-BROMO-PHENYL-ETHER TOTAL (UG/L) (34636)	4-CHLORO-PHENYL-ETHER TOTAL (UG/L) (34641)	4-NITRO-PHENOL TOTAL (UG/L) (34646)	4,6-DINITRO-ORTHO-CRESOL TOTAL (UG/L) (34657)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	AROCLOR 1016 PCB TOTAL (UG/L) (34671)	PHENOL (C6H-5OH) TOTAL (UG/L) (34694)	NAPHTH-ALENE TOTAL (UG/L) (34696)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	CIS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	PENTA-CHLORO-PHENOL TOTAL (UG/L) (39032)
OCT 17...	--	--	--	--	<0.2	--	--	<0.20	<0.2	<0.2	--
OCT 17-17	<5.0	<5.0	<30.0	<30.0	--	<0.1	<5.0	<5	--	--	<30.0
NOV 13...	--	--	--	--	<0.2	--	--	<0.2	<0.2	<0.2	--
NOV 13-13	<5.0	<5.0	<30.0	<30.0	--	<0.1	<5.0	<5.0	--	--	<30.0

WATER-QUALITY RECORDS

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS. WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

[illegible]

08330775 SOUTH DIVERSION CHANNEL ABOVE TIJERAS ARROYO NEAR ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

[illegible][illegible]

RIO GRANDE BASIN

08331000 RIO GRANDE AT ISLETA, NM
(Surveillance network station)

WATER-QUALITY RECORDS

LOCATION.--Lat 34°54'21", long 106°41'04", in NE¼NE¼SW¼ sec. 24, T.08 N., R.02 E., Valencia County, Hydrologic Unit 13020203, 50 feet upstream from diversion dam, at or upstream of bridge on State Highway 47, at Isleta.

DRAINAGE AREA.--18,100 mi² (estimated).

PERIOD OF RECORD.--Water years 1972 to current year.

REMARKS.--Water-discharge measurements were made at the time water-quality samples were collected. Samples collected upstream of bridge during periods of low flow.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT 1993											
26...	0945	561	440	8.0	--	11.0	643	7.7	83	--	--
NOV											
05...	0945	1340	404	8.0	18.0	9.5	638	8.8	92	15	--
DEC											
02...	0900	1520	390	8.1	5.5	5.5	642	9.1	86	--	--
JAN 1994											
27...	0930	737	389	7.8	4.0	4.0	638	11.4	104	--	--
FEB											
24...	1030	1190	407	8.0	2.0	4.5	639	9.6	89	--	--
MAR											
17...	1030	1070	394	7.9	--	13.0	638	6.6	75	15	77
APR											
14...	1330	3180	352	8.1	24.0	13.5	633	8.2	95	--	--
MAY											
13...	0930	6110	329	8.0	16.5	13.0	636	8.0	91	20	670
JUN											
01...	1800	4240	--	--	--	--	--	--	--	--	--
28...	0800	4970	295	8.1	27.0	21.5	642	6.7	91	--	--
JUL											
13...	0900	626	392	8.0	--	23.0	639	6.3	88	--	--
AUG											
31...	0915	531	475	7.8	--	20.0	641	5.9	78	14	1700
SEP											
27...	1000	531	451	8.0	20.5	16.5	643	6.8	83	--	--

DATE	HARD- NESS TOTAL (MG/L AS CaCO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CaCO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS- SOLVED (MG/L AS Na) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA- LITY WAT DIS TOT IT FIELD (MG/L AS CaCO3) (39086)	ALKA- LITY LAB (MG/L AS CaCO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
OCT 1993												
26...	150	16	46	7.6	33	1	4.8	159	0	130	121	64
NOV												
05...	140	14	44	7.7	30	1	3.8	156	0	128	130	58
DEC												
02...	140	20	42	7.5	30	1	3.8	141	0	115	122	57
JAN 1994												
27...	130	7	39	7.0	31	1	3.9	145	0	120	123	54
FEB												
24...	130	6	40	7.0	30	1	3.9	150	0	123	121	52
MAR												
17...	120	3	38	6.8	29	1	4.3	146	0	120	118	53
APR												
14...	130	24	39	6.8	21	0.8	6.6	124	0	102	102	56
MAY												
13...	98	8	30	5.6	26	1	2.9	110	0	90	94	45
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
28...	98	15	30	5.7	16	0.7	2.7	102	0	83	91	44
JUL												
13...	120	17	38	6.7	29	1	4.0	128	0	105	109	54
AUG												
31...	140	19	45	7.3	41	1	4.7	150	0	123	131	70
SEP												
27...	140	12	44	7.2	34	1	4.9	156	0	128	128	65

RIO GRANDE BASIN

08331000 RIO GRANDE AT ISLETA, NM -- Continued

WATER QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)
OCT 1993												
26...	16	0.50	23	282	278	0.530	0.110	0.640	0.880	0.22	1.3	1.1
NOV												
05...	12	0.50	21	237	257	0.450	0.120	0.570	0.210	0.19	0.80	0.40
DEC												
02...	34	0.40	21	259	271	1.17	0.030	1.20	0.170	0.13	0.50	0.30
JAN 1994												
27...	15	0.50	22	253	250	1.16	0.040	1.20	0.370	0.13	0.90	0.50
FEB												
24...	16	0.50	25	246	256	1.35	0.050	1.40	0.610	0.09	1.1	0.70
MAR												
17...	13	0.50	23	241	245	0.750	0.110	0.860	0.630	0.37	1.3	1.0
APR												
14...	8.4	0.30	19	226	221	0.570	0.040	0.610	0.100	0.10	<0.20	0.20
MAY												
13...	13	0.30	17	209	196	0.290	0.010	0.300	0.050	0.25	0.30	0.30
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
28...	5.5	0.20	16	158	172	0.220	0.020	0.240	0.080	0.32	0.30	0.40
JUL												
13...	14	0.50	21	225	237	1.20	0.100	1.30	0.280	0.22	0.70	0.50
AUG												
31...	21	0.50	24	295	297	1.59	0.110	1.70	0.270	0.13	1.3	0.40
SEP												
27...	19	0.60	22	276	279	0.870	0.070	0.940	0.450	0.25	0.90	0.70

DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CYANIDE TOTAL (MG/L AS CN) (00720)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)
OCT 1993											
26...	0.440	0.400	0.400	--	--	--	--	--	--	--	--
NOV											
05...	0.420	0.230	0.250	4.4	--	3	3	<1	<1.0	2	<1
DEC											
02...	0.360	0.210	0.220	--	--	--	--	--	--	--	--
JAN 1994											
27...	0.380	0.250	0.250	--	--	--	--	--	--	--	--
FEB											
24...	0.410	0.320	0.290	--	--	--	--	--	--	--	--
MAR											
17...	0.380	0.310	0.280	6.2	--	--	--	--	--	--	--
APR											
14...	0.100	--	0.120	--	--	--	--	--	--	--	--
MAY											
13...	0.080	0.050	0.060	6.7	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	<0.010	--	--	--	--	--	--
28...	--	0.130	0.160	--	--	--	--	--	--	--	--
JUL											
13...	0.410	0.350	0.360	--	--	--	--	--	--	--	--
AUG											
31...	0.840	0.480	0.470	9.2	--	6	5	<1	<1.0	5	<1
SEP											
27...	0.440	0.360	0.370	--	--	--	--	--	--	--	--

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)
OCT 1993											
26...	--	--	160	--	--	44	--	--	--	--	--
NOV											
05...	4	<1	9	3	<1	17	<0.10	<0.1	<1	<1	20
DEC											
02...	--	--	14	--	--	23	--	--	--	--	--
JAN 1994											
27...	--	--	10	--	--	22	--	--	--	--	--
FEB											
24...	--	--	8	--	--	21	--	--	--	--	--
MAR											
17...	--	--	6	--	--	38	--	--	--	--	--
APR											
14...	--	--	17	--	--	7	--	--	--	--	--
MAY											
13...	--	--	59	--	--	6	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	26	--	--	3	--	--	--	--	--
JUL											
13...	--	--	24	--	--	14	--	--	--	--	--
AUG											
31...	8	1	15	8	<1	6	<0.10	<0.1	<1	<1	40
SEP											
27...	--	--	18	--	--	12	--	--	--	--	--

[illegible]

WATER-QUALITY RECORDS

[illegible]

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

[illegible]

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR 1993 TO SEPTEMBER 1994

[illegible]

WATER-QUALITY RECORDS

[illegible][illegible]

[illegible]

RIO GRANDE BASIN

08331000 RIO GRANDE AT ISLETA, NM -- Continued

WATER-QUALITY RECORDS

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	CHLOR- PYRIFOS TOTAL (UG/L) (38932)	DI- SYSTON TOTAL (UG/L) (39011)	PHORATE TOTAL (UG/L) (39023)	PER- THANE TOTAL (UG/L) (39034)	DEF TOTAL (UG/L) (39040)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L) (39250)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)
OCT 20...	1400	--	--	--	--	--	--	--	--	--
DEC 22...	1430	--	--	--	--	--	--	--	--	--
APR 28...	1030	--	--	--	--	--	--	--	--	--
JUL 28...	1130	--	--	--	--	--	--	--	--	--
AUG 25...	1030	<0.01	<0.01	<0.01	<0.1	<0.01	<0.10	<0.010	<0.010	<0.1

DATE	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDO- SULFAN, TOTAL (UG/L) (39388)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	TOX- APHENE, TOTAL (UG/L) (39400)	HEPTA- CHLOR, TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)
OCT 20...	--	--	--	--	--	--	--	--	--	--
DEC 22...	--	--	--	--	--	--	--	--	--	--
APR 28...	--	--	--	--	--	--	--	--	--	--
JUL 28...	--	--	--	--	--	--	--	--	--	--
AUG 25...	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<1	<0.010	<0.010

RIO GRANDE BASIN

08331990 RIO GRANDE CONVEYANCE CHANNEL NEAR BERNARDO, NM

LOCATION.--Lat 34°24'52", long 106°48'11", Socorro County, Hydrologic Unit 13020203, in Sevilleta or Belen Grant, 0.2 mi south of U.S. Highway 60, 1.8 mi east of Bernardo, about 3 mi upstream from floodway, and 4 mi upstream from Rio Grande.

in composite flow of "Rio Grande near Bernardo." October 1960 to September 1964, monthly acre-feet published in WSP 1923 (daily records available in district files). Beginning October 1952, flow in conveyance channel represents controlled diversion from Rio Grande. Prior to October 1952, records called "San Francisco Riverside drain near Bernardo" are not equivalent.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 4,720.00 ft above National Geodetic Vertical Datum of 1929. Prior to October 1964, 0.2 mi upstream at various datums.

REMARKS.--Records good. Conveyance channel is 1 of 4 channels (stations 08332010, 08332030, and 08332050) carrying flow in valley cross section. Original design and plan were for conveyance channel to carry flows up to about 2,000 ft³/s. For combined monthly flow in acre-ft of this channel, floodway, Bernardo interior drain, and Lower San Juan Riverside drain, see tabulation below daily table for station 08332010. Several observations of water temperature were made during the year. No flow many days most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.9	5.7	3.6	3.4	3.4	5.2	9.4	10	5.3	.00	3.2
2	1.8	2.0	5.0	3.4	3.3	3.6	4.7	11	6.8	4.6	.00	2.3
3	2.1	2.2	4.9	3.6	3.8	3.3	4.0	7.5	6.2	5.0	.00	27
4	2.3	2.1	5.0	3.3	3.1	3.4	4.2	5.7	8.3	6.5	.00	7.9
5	1.6	1.9	4.9	3.3	3.7	3.5	4.3	5.6	7.3	3.8	1.1	.42
6	1.6	2.0	4.5	3.2	3.3	3.7	4.4	5.9	4.7	2.6	.67	1.1
7	2.7	2.1	4.3	3.2	3.2	3.1	8.8	6.9	4.4	3.1	.40	3.5
8	2.3	3.9	4.3	3.2	3.5	3.6	10	8.0	3.7	2.0	.52	1.1
9	2.0	12	4.2	3.2	3.4	3.7	11	8.7	6.4	2.0	1.3	.66
10	1.5	7.1	4.1	7.9	3.4	3.5	9.6	13	6.7	1.6	.23	2.3
11	1.9	5.8	4.1	4.9	6.8	4.5	7.0	8.5	7.7	1.5	.83	3.9
12	3.2	5.2	3.9	4.4	4.6	4.2	6.0	7.8	7.1	2.5	.12	5.0
13	3.6	5.0	4.0	4.2	4.3	5.0	6.7	13	8.5	1.4	.00	5.4
14	2.4	4.8	4.0	4.0	4.2	5.0	9.5	7.6	7.7	.68	.14	4.1
15	2.1	4.6	4.1	4.0	4.0	4.3	11	6.5	7.8	.45	14	1.3
16	2.5	4.8	4.0	4.0	4.0	3.7	12	6.2	6.3	.89	.24	.75
17	2.2	3.9	4.0	3.8	3.7	3.3	7.4	6.2	9.9	1.8	.02	2.1
18	1.9	3.7	3.9	3.8	3.7	3.5	6.2	5.9	8.5	.48	5.9	3.0
19	1.7	3.6	3.6	3.8	3.5	4.1	6.2	5.2	8.2	.38	13	1.4
20	1.6	4.1	3.5	3.5	3.5	3.8	9.9	11	7.2	.42	13	1.3
21	2.5	3.4	8.3	3.5	3.4	3.7	8.4	11	5.5	.51	6.2	.85
22	3.4	3.4	5.4	3.3	3.1	3.6	7.3	10	5.3	1.2	1.1	2.7
23	2.6	3.3	4.8	3.1	3.3	3.6	13	9.5	4.8	2.3	.61	2.0
24	2.3	3.3	5.0	6.2	3.3	4.2	10	9.3	4.5	.79	.43	1.5
25	2.8	3.1	4.5	4.4	3.3	4.2	9.8	9.7	5.6	.46	2.2	5.1
26	2.5	3.3	4.3	4.1	3.4	4.2	9.1	9.4	4.2	.53	.60	1.1
27	2.0	3.2	4.0	3.9	3.4	5.1	8.6	8.7	7.4	.04	1.1	.98
28	1.8	3.3	3.9	3.5	3.2	11	9.3	7.6	10	.25	.56	.96
29	1.7	3.4	3.9	3.6	---	8.6	12	8.2	7.0	14	1.4	.36
30	2.0	10	3.6	3.3	---	8.1	9.3	6.5	6.6	.38	1.1	.01
31	2.2	---	3.6	3.3	---	6.4	---	8.5	---	.01	3.0	---
TOTAL	68.6	122.4	137.3	120.5	102.8	138.9	244.9	258.0	204.3	67.47	69.77	93.29
MEAN	2.21	4.08	4.43	3.89	3.67	4.48	8.16	8.32	6.81	2.18	2.25	3.11
MAX	3.6	12	8.3	7.9	6.8	11	13	13	10	14	14	27
MIN	1.5	1.9	3.5	3.1	3.1	3.1	4.0	5.2	3.7	.01	.00	.01
AC-FT	136	243	272	239	204	276	486	512	405	134	138	185

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1994, BY WATER YEAR (WY)

	MEAN	92.4	336	302	277	275	228	235	235	200	106	93.9	71.0
MAX	682	1395	1579	1417	1006	1028	1354	1259	1664	1690	890	570	
(WY)	1970	1971	1974	1974	1970	1966	1966	1973	1973	1973	1973	1973	
MIN	.000	1.54	3.40	2.97	3.44	3.93	2.92	.64	.000	.000	.013	.000	
(WY)	1964	1978	1993	1982	1982	1977	1977	1977	1972	1964	1977	1964	

SUMMARY STATISTICS FOR 1993 CALENDAR YEAR FOR 1994 WATER YEAR WATER YEARS 1964 - 1994

	ANNUAL TOTAL	1583.76	1628.23	
ANNUAL MEAN	4.34	4.46	204	
HIGHEST ANNUAL MEAN			1017	1973
LOWEST ANNUAL MEAN			2.25	1977
HIGHEST DAILY MEAN	13	Jun 3	2050	Aug 2 1973
LOWEST DAILY MEAN	.11	Aug 13	.00	Oct 1 1963
ANNUAL SEVEN-DAY MINIMUM	.32	Aug 12	.21	Jul 30
INSTANTANEOUS PEAK FLOW			.00	Oct 1 1963
ANNUAL RUNOFF (AC-FT)	3140	3230	2220	Aug 22 1958
10 PERCENT EXCEEDS	9.5	8.9	147600	
50 PERCENT EXCEEDS	3.7	3.8	836	
90 PERCENT EXCEEDS	.92	.84	6.7	
			.18	

RIO GRANDE BASIN

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, NM

LOCATION.--Lat 34°25'01", long 106°48'00", Socorro County, Hydrologic Unit 13020203, in Belen or Sevilleta Grant, on downstream side of bridge on U.S. Highway 60, 2.0 mi east of Bernardo, and at mile 1,487.2. and 5.0 mi downstream from heading of conveyance channel.

DRAINAGE AREA.--19,230 mi², approximately, including 2,940 mi² in closed basin in San Luis Valley, CO.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1936 to January 1939, October 1941 to current year. Monthly discharge only October 1942 to June 1943, published in WSP 1312, and October 1960 to September 1964, published in WSP 1923 (daily records available in district files). Published as "Rio Grande near Bernardo" prior to October 1964. Prior to October 1952, flow of Bernardo interior drain was included only when it carried river overflow; the entire flow has been included from October 1952 to September 1964. Flow in the conveyance channel, formerly "San Francisco Riverside drain," has been included in records prior to October 1964.

GAGE.--Water-stage recorder. Datum of gage is 4,722.55 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are fair. Since November 1973 flow completely regulated by Cochiti Dam (station 08317300) 100 mi upstream. Floodway is 1 of 4 channels (stations 08331990, 08332030, and 08332050) carrying flow in valley cross section. For combined monthly flow in acre-ft of floodway, conveyance channel, Bernardo interior drain and Lower San Juan Riverside drain see tabulation below. Diversions for irrigation of about 740,000 acres upstream from station. No flow for many days most years.

AVERAGE DISCHARGE.--19 years (water years 1937-38, 1942-58), 1,125 ft³/s, 815,100 acre-ft/yr. Includes flow of floodway, conveyance channel, and Bernardo interior drain. 15 years (water years 1959-73), 898 ft³/s, Riverside drain, prior to closure of Cochiti Dam. 21 years (water years 1974-94), 1,452 ft³/s, 1,052,000 acre-ft/yr, includes flow of floodway, conveyance channel, Bernardo interior drain, and lower San Juan Riverside drain, since closure of Cochiti Dam.

EXTREMES FOR PERIOD OF RECORD (1936-39 AND SINCE 1941).--Maximum discharge, 21,000 ft³/s, Apr. 25, 1942, gage height, 6.90 ft; no flow most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 7,600 ft³/s, May 13; minimum daily, 79 ft³/s Sept. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	223	715	1130	1180	1100	940	1280	3030	4120	e3450	e680	128
2	197	1100	1280	1210	1090	922	1310	3140	4820	e2500	e640	115
3	147	1070	1410	1230	1090	968	1400	2750	5370	e1300	e650	132
4	130	1080	1320	1250	1000	1050	1760	2850	4810	e710	588	629
5	187	1320	1370	1260	974	1020	1830	2770	4210	e450	435	783
6	181	1230	1290	1210	1020	987	1850	2950	3100	e410	350	638
7	173	1320	1260	1150	1170	1190	2030	3400	3220	e350	301	751
8	207	1390	1500	1120	1310	1330	2270	4870	3630	e310	261	653
9	310	1440	1590	1090	1210	1530	2120	5490	4170	e280	242	702
10	309	1350	1690	1100	1060	1530	2150	6060	4540	e250	374	460
11	358	1330	1580	1120	1080	1600	2280	6480	4980	e230	325	417
12	406	1380	1600	1130	1080	1570	2340	7570	5520	e205	207	378
13	417	1420	1620	1100	1030	1550	2350	7600	5070	149	188	371
14	408	1510	1690	1130	1040	1450	2300	5950	4760	111	185	411
15	399	1720	1700	1120	1040	1190	2260	6230	e4900	120	264	521
16	380	1500	1630	1080	997	869	2530	6250	e4950	154	1420	606
17	343	1440	1640	1080	971	709	2750	6410	e4910	102	1860	554
18	464	1440	1590	1090	968	805	2680	5930	e4900	157	1780	409
19	540	1510	1540	1090	986	1060	2800	6110	e4710	225	1260	327
20	516	1410	1540	1090	1040	1180	3510	6210	e4700	301	759	314
21	514	1280	1520	1120	1040	1360	3850	5670	e4600	305	488	242
22	424	1260	1490	1090	1050	1420	3680	5430	4640	392	498	169
23	375	1270	1540	1080	1060	1710	4170	5270	4550	466	561	162
24	354	1300	1690	1080	999	1960	4400	5270	4550	456	556	167
25	360	1360	1700	1100	934	2040	4650	5070	4430	541	637	136
26	338	1410	1530	1100	938	1890	5420	5200	4610	368	353	112
27	369	1440	1320	1110	940	1960	4870	6080	4710	253	293	111
28	377	1440	1210	1090	884	1930	4410	5710	4430	304	348	96
29	329	1400	1090	1100	---	1680	3860	5550	e4500	413	316	79
30	363	1230	1130	1110	---	1330	3040	4680	e4000	e700	199	99
31	377	---	1200	1110	---	1230	---	4400	---	e710	136	---
TOTAL	10475	40065	45390	34920	29101	41960	86150	160380	136410	16674	17154	10672
MEAN	338	1335	1464	1126	1039	1354	2872	5174	4547	538	553	356
MAX	540	1720	1700	1260	1310	2040	5420	7600	5520	3450	1860	783
MIN	130	715	1090	1080	884	709	1280	2750	3100	102	136	79
AC-FT	20780	79470	90030	69260	57720	83230	170900	318100	270600	33070	34020	21170
(†)	36790	84810	95210	73660	61720	95060	184100	334500	285300	46440	49740	35860

CAL YR 1993 TOTAL 659979 MEAN 1808 MAX 6650 MIN 64 AC-FT 1309000 (†) MEAN 2003 AC-FT 1,451,000
WTR YR 1994 TOTAL 629351 MEAN 1724 MAX 7600 MIN 79 AC-FT 1248000 (†) MEAN 1910 AC-FT 1,383,000

e Estimated

(†) COMBINED FLOW, IN ACRE-FT, AND MEAN, IN CUBIC FEET PER SECOND, OF FLOODWAY, CONVEYANCE CHANNEL, BERNARDO INTERIOR DRAIN AND LOWER SAN JUAN RIVERSIDE DRAIN.

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, NM -- Continued

WATER-QUALITY RECORDS

RECEIVED BY ADDRESSEE, PLEASE PRINT NAME AND ADDRESS IN FULL, AND SIGNATURE OF ADDRESSEE.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 104

SPECIFIC CONDUCTANCE: October 1956 to current year.

WATER TEMPERATURE: October 1964 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1964 to current year.

REMARKS.--Sediment total-loads (suspended sediment plus bed material discharge), in tons per day, were determined from the regression equation developed for the period of record. Once-daily water temperature readings were made by the field observer, and once-daily specific conductance values were determined in the laboratory from daily suspended sediment samples collected by the field observer.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (water years 1964-94): Maximum daily, 1,410 microsiemens, July 23, 1976; minimum daily, 224 microsiemens, June 5, 1980.

WATER TEMPERATURE: Maximum daily, 34.5 °C, Aug. 9, 1975; minimum daily, 0.0 °C on several days during 1971-72, 1976-77, 1979, and 1983-87.

SEDIMENT CONCENTRATION (water years 1975-94): Maximum daily mean, 21,400 mg/L, Aug. 11, 1979; minimum daily mean, no flow on many days of most years.

SEDIMENT LOAD: Maximum daily, 356,000 tons, Aug. 11, 1967; minimum daily, 0 ton on many days each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 725 microsiemens, Aug. 19; minimum daily, 268 microsiemens, May 25.

WATER TEMPERATURE: Maximum daily, 34.0 °C, Aug. 10, 11, 13, 14, 18; minimum daily, 2.0 °C, Jan. 12.

SEDIMENT CONCENTRATION: Maximum daily mean, 10,500 mg/L, Apr. 24; minimum daily mean, 61 mg/L, Oct. 7.

SEDIMENT LOAD: Maximum daily, 131,000 tons, June 11; minimum daily, 14 tons, Sept. 29.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
OCT 1993												
20...	1030	526	490	8.5	12.0	11.5	648	9.0	97	19	160	51
DEC												
13...	1500	1630	440	8.4	6.0	6.5	643	10.4	101	--	--	--
FEB 1994												
24...	1215	1010	450	8.4	5.5	7.5	640	11.4	114	--	150	48
JUN												
09...	1215	4290	287	8.1	29.0	22.5	644	7.2	99	--	100	31
JUL												
26...	1300	330	481	8.5	30.5	27.0	646	7.1	106	27	150	48
SEP												
22...	1500	171	533	8.6	22.5	23.0	644	8.2	114	--	--	--

[illegible]

RIO GRANDE BASIN

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)
OCT 1993												
20...	0.890	<0.010	0.60	0.380	0.270	5.2	4	4	90	<1	<1.0	2
DEC												
13...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 1994												
24...	--	--	--	--	--	--	--	--	80	--	--	--
JUN												
09...	--	--	--	--	--	--	--	--	40	--	--	--
JUL												
26...	1.00	0.030	0.50	0.340	0.230	7.4	--	--	80	--	--	--
SEP												
22...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
OCT 1993												
20...	<1	5	1	12	3	<1	<0.10	<0.1	<1	<1	20	<3
DEC												
13...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 1994												
24...	--	--	--	10	--	--	--	--	--	--	--	--
JUN												
09...	--	--	--	9	--	--	--	--	--	--	--	--
JUL												
26...	--	--	--	3	--	--	--	--	--	--	--	--
SEP												
22...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (000061)	STREAM WIDTH (FT) (000004)	STREAM DEPTH, MEAN (FT) (000064)	STREAM VELOC- ITY, MEAN (F/S) (000055)	TEMPER- ATURE WATER (DEG C) (000010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, DISCH. SUSP. + BED MA- TERIAL (T/DAY) (80156)
OCT 1993									
04...	1215	111	124	1.0	0.89	22.0	122	37	62
NOV									
22...	1215	1250	377	1.8	1.82	8.0	564	1900	2840
DEC									
13...	1515	1630	340	2.3	2.06	6.5	500	2200	3260
JAN 1994									
12...	1330	1110	338	1.6	2.09	2.0	208	623	958
FEB									
24...	1100	1010	366	1.6	1.73	7.5	241	657	1010
MAR									
21...	1500	1360	340	2.0	1.97	15.5	196	720	1100
APR									
18...	1345	2710	340	2.8	2.86	16.5	1640	12000	16900
MAY									
27...	1730	6090	347	4.8	3.67	18.5	1400	23000	31800
JUN									
21...	1715	4450	347	4.2	3.05	22.5	445	5350	7720
JUL									
18...	1420	166	101	1.1	1.50	29.0	48	22	37
AUG									
15...	1410	299	112	1.5	1.80	24.0	1820	1470	2200
SEP									
22...	1350	171	96.0	1.4	1.27	23.0	200	92	152

RIO GRANDE BASIN

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
OCT 1993									
04...	--	--	--	--	30	32	80	100	--
NOV									
22...	--	--	--	--	28	29	43	99	100
DEC									
13...	--	--	--	--	45	46	67	100	--
JAN 1994									
12...	--	--	--	--	39	47	82	100	--
FEB									
24...	--	--	--	--	39	52	88	100	--
MAR									
21...	--	--	--	--	73	79	92	99	100
APR									
18...	--	--	--	--	18	24	87	100	--
MAY									
27...	--	--	--	--	46	59	82	98	100
JUN									
21...	--	--	--	--	31	46	86	100	--
JUL									
18...	--	--	--	--	65	66	86	100	--
AUG									
15...	55	72	88	94	97	97	100	--	--
SEP									
22...	--	--	--	--	80	80	91	100	--

DATE	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM (80165)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM (80166)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM (80167)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)
OCT 1993									
04...	0	1	31	76	96	99	100	--	--
NOV									
22...	0	1	22	84	100	--	--	--	--
DEC									
13...	0	1	16	57	84	93	98	100	--
JAN 1994									
12...	--	0	24	85	99	100	--	--	--
FEB									
24...	4	9	33	82	95	98	99	100	--
MAR									
21...	0	2	31	80	95	98	99	100	--
APR									
18...	1	6	60	95	100	--	--	--	--
MAY									
27...	0	4	27	74	93	98	99	100	--
JUN									
21...	0	2	48	73	92	98	99	100	--
JUL									
18...	0	1	16	69	90	92	93	93	100
AUG									
15...	0	1	15	77	96	99	100	--	--
SEP									
22...	--	0	22	87	99	100	--	--	--

RIO GRANDE BASIN

08332050 BERNARDO INTERIOR DRAIN NEAR BERNARDO, NM

LOCATION.--Lat 34°24'56", long 106°49'15", Socorro County, Hydrologic Unit 13020203, on right bank 110 ft upstream from culvert on U.S. Highway 60, and 1.0 mi east of Bernardo.

PERIOD OF RECORD.--June 1936 to May 1937, October 1943 to current year. Monthly discharge only June 1936 to May 1937, published in WSP 828. October 1943 to September 1960 included in composite records for station 08332000 "Rio Grande near Bernardo." October 1960 to September 1964, monthly acre-ft published in WSP 1923. Daily records available in district files beginning October 1943.

GAGE.--Water-stage recorder. Elevation of gage is 4,710 ft above National Geodetic Vertical Datum of 1929, from topographic map. June 4, 1936, to May 17, 1937, nonrecording gage 300 ft downstream, and Oct. 1, 1943 to Jan. 12, 1978, water-stage recorder at site 150 ft downstream at different datum.

REMARKS.--Records good. This drain is 1 of 4 channels (stations 08331990, 08332010, and 08332030) carrying flow in valley cross section. For combined monthly flow in acre-ft of this drain, conveyance channel, floodway, and Lower San Juan Riverside drain, see tabulation below daily table for station 08332010. Several observations of water temperature were made during the year. Prior to 1952, drain was subject to overflow from floodway.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	17	27	11	22	23	79	54	105	89	109	138
2	111	21	24	12	23	23	79	57	103	77	136	131
3	115	36	25	12	23	26	76	55	96	75	121	120
4	122	32	26	12	23	72	76	45	103	80	115	140
5	133	32	26	13	23	117	68	46	111	66	114	124
6	132	32	26	14	22	96	64	74	82	62	110	139
7	140	32	26	14	23	68	62	110	79	67	110	140
8	137	32	26	14	24	65	54	118	81	71	102	126
9	128	31	26	14	23	51	56	133	89	99	96	121
10	129	31	27	18	23	52	75	130	83	115	99	119
11	132	32	26	22	23	79	78	130	92	107	97	110
12	132	31	26	22	22	71	58	135	105	125	83	123
13	141	31	26	22	23	53	59	130	106	116	98	122
14	142	30	27	22	23	66	65	109	105	110	106	113
15	138	30	28	22	23	71	71	120	97	108	111	143
16	128	29	27	22	23	73	77	111	86	114	106	142
17	135	28	27	22	23	64	79	115	91	107	110	138
18	126	29	28	22	23	70	63	112	82	103	116	132
19	129	28	28	22	23	70	53	126	91	95	118	132
20	123	28	28	22	23	66	60	126	91	84	143	123
21	111	27	29	22	23	74	61	122	90	98	145	102
22	108	27	28	22	23	63	57	120	96	117	138	122
23	112	27	28	22	23	43	59	124	108	119	136	113
24	126	26	28	22	23	31	77	126	113	113	137	106
25	118	26	22	23	23	31	77	136	105	126	141	128
26	106	26	17	22	23	42	85	106	104	127	157	136
27	67	25	15	23	23	61	70	97	109	133	175	140
28	59	25	16	22	23	71	62	91	92	124	143	143
29	62	25	14	22	---	63	64	114	89	108	137	148
30	63	26	12	22	---	73	63	117	87	93	145	149
31	65	---	12	23	---	80	---	97	---	89	130	---
TOTAL	3596	852	751	599	642	1908	2027	3286	2871	3117	3784	3863
MEAN	116	28.4	24.2	19.3	22.9	61.5	67.6	106	95.7	101	122	129
MAX	142	36	29	23	24	117	85	136	113	133	175	149
MIN	59	17	12	11	22	23	53	45	79	62	83	102
AC-FT	7130	1690	1490	1190	1270	3780	4020	6520	5690	6180	7510	7660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1994, BY WATER YEAR (WY)

	MEAN	70.4	30.9	27.5	26.1	26.3	48.4	58.2	60.9	55.6	57.3	67.8	68.8
MAX	145	87.9	74.2	87.7	74.5	96.9	118	129	134	146	146	147	147
(WY)	1991	1987	1987	1990	1990	1985	1969	1983	1992	1992	1992	1992	1992
MIN	.11	1.37	3.50	3.30	3.90	5.61	4.81	4.84	1.64	.18	.006	.010	.010
(WY)	1957	1957	1955	1957	1957	1954	1955	1954	1954	1956	1954	1956	1956

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1954 - 1994

ANNUAL TOTAL	29274.00	27296	50.9	
ANNUAL MEAN	80.2	74.8	92.1	1992
HIGHEST ANNUAL MEAN			4.29	1955
LOWEST ANNUAL MEAN			208	May 5 1983
HIGHEST DAILY MEAN	158	Sep 4	11	Jan 1
LOWEST DAILY MEAN	.00	Mar 3	12	Dec 30
ANNUAL SEVEN-DAY MINIMUM	.00	Mar 3		
INSTANTANEOUS PEAK FLOW			208	May 5 1983
ANNUAL RUNOFF (AC-FT)	58060	54140	36880	
10 PERCENT EXCEEDS	133	132	111	
50 PERCENT EXCEEDS	105	75	38	
90 PERCENT EXCEEDS	23	22	5.3	

RIO GRANDE BASIN

08334000 RIO PUERCO ABOVE ARROYO CHICO, NEAR GUADALUPE, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948-56 (published as "below Cabezón"), 1981 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGES: July 1948 to June 1956, October 1981 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler since August 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 214,000 mg/L, Aug. 28, 1988; minimum daily mean, no flow on many days each year.

SEDIMENT LOADS: Maximum daily, 730,000 tons, July 27, 1955; minimum daily, 0 ton on many days each year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 140,000 mg/L, Aug. 6; minimum daily mean, no flow on many days.

SEDIMENT LOADS: Maximum daily, 83,100 tons, Aug. 15; minimum daily, 0 ton on many days.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
FEB 1994						
16...	1035	0.80	2.0	559	1.2	98
MAR						
15...	1020	5.8	8.5	7730	121	95
15...	1021	5.8	8.5	9350	146	89
APR						
07...	1005	4.1	7.0	4800	53	94
07...	1006	4.1	7.0	4420	49	95
MAY						
04...	0931	11	9.5	12400	368	90
04...	0932	11	9.5	10600	315	92
JUN						
02...	1029	9.1	--	19500	479	82
02...	1030	9.1	--	14700	361	72
AUG						
02...	1019	2.2	24.0	73800	438	99
02...	1020	2.2	24.0	72700	432	100

RIO GRANDE BASIN

08341300 BLUEWATER CREEK ABOVE BLUEWATER DAM, NEAR BLUEWATER, NM

LOCATION.--Lat 35°16'04", long 108°06'50", SW/4, sec. 16, T.12 N., R.12 W., Cibola County, Hydrologic Unit 13020207, on left bank 2.0 mi south of Bluewater Dam, 7.0 mi west of Bluewater, and 11 mi east of Thoreau.

DRAINAGE AREA.--75.0 mi².

PERIOD OF RECORD.--October 1953 to September 1978 (annual maximum only), July 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,410 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.4	e1.8	e.98	e.98	2.8	8.7	2.8	1.2	.22	.71	.28
2	1.4	1.2	e1.6	e.97	e.97	4.7	7.7	2.0	1.1	.25	.76	.26
3	1.4	1.2	e1.5	e1.1	e1.1	9.4	6.7	1.8	1.1	.22	.53	.81
4	1.4	1.3	e1.4	e1.0	e1.0	15	6.0	1.5	.82	.15	.43	.69
5	1.5	1.2	e1.4	e.98	e.98	27	6.3	1.4	.88	.11	.37	.35
6	1.6	1.3	e1.4	.93	e.98	30	6.6	1.2	3.0	.07	.33	25
7	2.2	1.6	e1.3	.99	e.99	24	5.2	1.1	4.5	.06	.30	11
8	1.9	1.5	e1.3	e1.0	e1.0	30	4.5	3.2	3.5	.09	.32	1.8
9	1.7	1.4	e1.3	e1.0	e1.0	26	7.4	4.2	1.9	.12	.36	.96
10	1.5	1.4	e1.3	e1.1	e1.1	19	10	5.5	1.3	.10	.36	.77
11	1.5	2.0	e1.4	e1.0	e1.1	17	8.8	6.0	.78	.23	.28	.68
12	1.5	3.0	e1.4	e1.0	e1.1	17	7.7	5.6	1.0	.14	.23	.52
13	1.4	3.0	e1.4	e1.1	e1.0	14	6.6	4.3	.90	.03	.20	.58
14	1.5	3.3	e1.5	e1.1	e1.1	18	5.8	3.2	.63	.04	.39	.52
15	1.6	3.2	e1.4	e1.1	e1.0	24	5.0	2.2	.72	.01	.31	.40
16	1.7	3.2	e1.4	e1.2	e1.0	32	4.1	1.7	.75	.01	.20	.35
17	2.7	3.1	1.4	1.1	e.98	38	3.7	1.5	.61	.02	.18	.32
18	4.0	3.4	1.4	1.2	e.98	34	3.4	1.4	.68	.18	.14	.27
19	3.6	3.2	1.4	1.1	e.97	32	3.0	1.1	.91	.11	.14	.23
20	3.1	3.0	1.3	e1.1	e1.1	119	2.5	.82	1.4	.08	.16	.29
21	2.7	2.7	1.3	e1.2	e1.0	59	2.5	.87	2.1	.11	.25	.26
22	2.4	2.7	1.2	e1.1	1.2	36	2.3	.89	2.8	.13	.23	.20
23	2.1	11	1.2	e1.1	1.1	26	2.1	.92	1.8	.13	.11	.18
24	1.9	18	e1.1	e1.2	1.3	20	2.3	2.1	1.1	.18	.11	.17
25	1.6	8.1	e1.1	e1.2	1.9	17	2.9	2.9	.95	.25	.14	.15
26	1.5	5.5	e1.1	e1.2	3.5	15	4.0	4.6	.70	.20	.14	.15
27	1.6	4.1	e1.0	e1.0	5.1	15	4.9	4.1	.47	.19	.15	.14
28	1.7	3.5	e1.1	e.96	5.1	13	6.4	3.1	.42	.34	.14	.14
29	1.7	e2.5	e1.0	e.98	---	12	4.4	2.2	.45	1.0	.15	.12
30	1.5	e2.0	e1.0	e1.0	---	11	3.2	1.6	.27	1.0	.22	.12
31	1.4	---	e.98	e.98	---	9.5	---	1.4	---	.73	.32	---
TOTAL	58.9	104.0	40.38	32.97	40.63	766.4	154.7	77.20	38.74	6.50	8.66	47.71
MEAN	1.90	3.47	1.30	1.06	1.45	24.7	5.16	2.49	1.29	.21	.28	1.59
MAX	4.0	18	1.8	1.2	5.1	119	10	6.0	4.5	1.0	.76	.25
MIN	1.4	1.2	.98	.93	.97	2.8	2.1	.82	.27	.01	.11	.12
AC-FT	117	206	80	65	81	1520	307	153	77	13	17	95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1994, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1989	.52	1.90	1994	.093	1991
1990	1.03	3.47	1994	.055	1991
1991	.66	1.30	1994	.050	1991
1992	3.96	17.9	1993	.091	1991
1993	8.37	32.3	1993	.48	1990
1994	70.9	227	1993	.55	1990
1995	61.6	225	1993	.43	1990
1996	4.66	14.6	1993	.37	1990
1997	1.08	1.78	1993	.077	1990
1998	.50	.88	1993	.076	1990
1999	2.66	11.7	1993	.023	1990
2000	.99	3.48	1993	.059	1990

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1989 - 1994
ANNUAL TOTAL	16458.50	1376.79	
ANNUAL MEAN	45.1	3.77	13.1
HIGHEST ANNUAL MEAN			44.6
LOWEST ANNUAL MEAN			.24
HIGHEST DAILY MEAN	709	119	709
LOWEST DAILY MEAN	.12	.01	.00
ANNUAL SEVEN-DAY MINIMUM	.24	.06	.00
INSTANTANEOUS PEAK FLOW		192	1270
INSTANTANEOUS PEAK STAGE		2.94	4.05
ANNUAL RUNOFF (AC-FT)	32650	2730	9490
10 PERCENT EXCEEDS	164	8.3	23
50 PERCENT EXCEEDS	3.3	1.2	.65
90 PERCENT EXCEEDS	.92	.18	.09

e Estimated

RIO GRANDE BASIN

08341365 COTTONWOOD CREEK NEAR THOREAU, NM

LOCATION.--Lat 35°20'32", long 106°12'42", in NE¼SE¼ sec.21, T.13 N., R. 13., McKinley County, Hydrologic Unit 13020207, on left bank 4.0 mi southeast of Thoreau, and 4.0 mi southwest of north end of Bluewater Lake.

DRAINAGE AREA 77.0 mi²

PERIOD OF RECORD.--July 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,420 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.13	e.13	e.00	e.00	.43	3.9	4.0	.00	.00	.00	.00
2	.00	.12	e.07	e.00	e.00	.46	3.4	3.2	.00	.00	.00	.00
3	.00	.09	e.03	e.00	e.00	.46	3.0	2.7	.00	.00	.00	.00
4	.00	.09	e.01	e.00	e.00	2.8	2.7	2.3	.00	.00	.00	.00
5	.00	.07	e.00	e.00	e.00	10	3.0	1.8	.00	.00	.00	.00
6	.00	.07	e.00	e.00	e.00	14	3.8	1.6	.00	.00	.00	.00
7	.00	.09	e.00	e.00	e.00	14	3.0	1.3	.00	.00	.00	.11
8	.00	.10	e.00	e.00	e.00	16	2.5	1.1	.00	.00	.00	.00
9	.00	.12	e.00	e.00	e.00	18	3.9	1.0	.00	.00	.00	.00
10	.02	.12	e.00	e.00	e.00	11	6.3	.99	.00	.00	.00	.00
11	.03	.27	e.00	e.00	e.00	11	5.6	1.4	.00	.00	.00	.00
12	.12	.70	e.00	e.00	e.00	10	6.2	1.5	.00	.00	.00	.00
13	.08	.39	e.00	e.00	e.00	8.0	5.5	1.4	.00	.00	.00	.00
14	.08	.40	e.00	e.00	e.00	12	4.5	1.3	.00	.00	.00	.00
15	.07	.43	e.00	e.00	e.00	18	3.5	1.1	.00	.00	.00	.00
16	.08	.39	e.00	e.00	e.00	30	3.1	.92	.00	.00	.00	.00
17	.32	.40	e.00	e.00	e.00	45	2.7	.60	.00	.00	.00	.00
18	.50	.35	e.00	e.00	e.00	39	2.6	.37	.00	.00	.00	.00
19	.30	.32	e.00	e.00	e.00	30	2.5	.18	.00	.00	.00	.00
20	.29	.25	e.00	e.00	e.01	74	2.4	.10	.00	.00	.00	.00
21	.17	.22	e.00	e.00	e.01	41	2.4	.05	.00	.00	.00	.00
22	.16	.29	e.00	e.00	e.03	25	2.3	.00	.00	.00	.00	.00
23	.13	1.4	e.00	e.00	e.04	17	2.1	.00	.00	.00	.00	.00
24	.12	15	e.00	e.00	e.07	12	2.1	.00	.00	.00	.00	.00
25	.12	7.1	e.00	e.00	e.10	8.9	2.7	.23	.00	.00	.00	.00
26	.12	e4.0	e.00	e.00	e.17	7.6	3.5	.57	.00	.00	.00	.00
27	.09	e1.9	e.00	e.00	e.29	7.7	6.0	.98	.00	.00	.00	.00
28	.11	e1.0	e.00	e.00	.42	5.4	6.3	.63	.00	.00	.00	.00
29	.12	e.50	e.00	e.00	---	5.7	7.8	.33	.00	.00	.00	.00
30	.10	e.25	e.00	e.00	---	4.6	5.4	.13	.00	.00	.00	.00
31	.07	---	e.00	e.00	---	4.3	---	.03	---	.00	.00	---
TOTAL	3.20	36.56	0.24	0.00	1.14	503.35	114.7	31.81	0.00	0.00	0.00	0.11
MEAN	.10	1.22	.008	.000	.041	16.2	3.82	1.03	.000	.000	.000	.004
MAX	.50	.15	.13	.00	.42	.74	7.8	4.0	.00	.00	.00	.11
MIN	.00	.07	.00	.00	.00	.43	2.1	.00	.00	.00	.00	.00
AC-FT	6.3	73	.5	.00	2.3	998	228	63	.00	.00	.00	.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1994, BY WATER YEAR (WY)

	MEAN	.021	.25	.24	6.84	7.20	45.5	24.7	2.06	.30	.033	.41	.038
MAX	.10	1.22	1.19	34.2	33.4	143	62.8	5.03	.75	.098	.95	.19	
(WY)	1994	1994	1993	1993	1993	1993	1991	1993	1993	1992	1992	1993	
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1990	1990	1990	1990	1990	1990	1990	1990	1990	1994	1993	1994	1991

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1989 - 1994

ANNUAL TOTAL	7876.35	691.11	7.31
ANNUAL MEAN	21.6	1.89	21.6
HIGHEST ANNUAL MEAN			.006
LOWEST ANNUAL MEAN			
HIGHEST DAILY MEAN	342	74	342
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		112	a483
INSTANTANEOUS PEAK STAGE		4.01	6.00
ANNUAL RUNOFF (AC-FT)	15620	1370	5300
10 PERCENT EXCEEDS	67	4.5	14
50 PERCENT EXCEEDS	.45	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

a-From rating curve extended above 2000 ft³/s.

RIO GRANDE BASIN

08341400 BLUEWATER LAKE NEAR BLUEWATER, NM

LOCATION.--Lat 35°17'31", Long 108°06'40", in SE¼ sec.9, T.12 N., R.12 W., Cibola County, Hydrologic Unit 13020207, at left end of Bluewater Dam on Bluewater Creek, and 9.5 mi west of Bluewater.

DRAINAGE AREA.--201 mi².

PERIOD OF RECORD.--June 1927 to December 1950 (monthend contents only, published in WSP 1732), April 1958 to current year (monthend contents only).

GAGE.--Water-stage recorder. Datum of gage is 7,345.57 ft above National Geodetic Vertical Datum of 1929. July 1958 to January 1961, nonrecording gage at nearby site, same datum. Gage heights have been converted to sea-level elevations.

REMARKS.--Lake is formed by concrete arch dam. Storage began in 1927. Capacity, 38,500 acre-ft, survey of 1945 at elevation 7,402.6 ft, crest of uncontrolled siphon spillway, which is vented to avoid drawdown below crest, and 44,200 acre-ft, at elevation 7,405.6 ft, crest of ungated spillway over dam. Capacity table used through 1944 showed a capacity of 50,300 acre-ft at crest of ungated spillway over dam, and that used from 1945-50, 43,500 acre-ft. Tables used prior to 1958 are not available and no adjustments are made for changes in tables. Dead storage, 3.4 acre-ft at elevation 7,345.4 ft, sill of lower outlet tube. Lake not usually drawn below conservation-pool level elevation, 7,365.36 ft, below which ownership is by State Game and Fish Department. Above this level, water is owned and used by Bluewater-Toltec Irrigation Co. Figures given herein represent total contents at 2400 hours.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents determined, 47,100 acre-ft, Apr. 30, 1941. Contents may have been greater on Apr. 28, 1941, when peak discharge of 800 ft³/s occurred at station 8 mi downstream; no storage at times prior to 1947.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 26,120 acre-ft, April 15, elevation, 7,394.5 ft; minimum, 11,680 acre-ft, Sept. 30, elevation, 7,384.0 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	7,394.3	25,860	
Oct. 31	7,393.3	24,560	- 1,300
Nov. 30	7,393.0	24,170	- 390
Dec. 31	7,392.8	23,920	- 250
CAL YR 1993			+19,320
Jan. 31	7,391.7	22,540	- 1,380
Feb. 28	7,392.5	23,540	+ 1,000
Mar. 31	7,394.3	25,860	+ 2,320
Apr. 30	7,393.6	24,940	- 920
May 31	7,391.4	22,170	- 2,770
June 30	7,388.6	18,800	- 3,370
July 31	7,384.7	14,820	- 3,980
Aug. 31	7,381.8	12,340	- 2,480
Sept. 30	7,381.0	11,680	- 660
WTR YR 1994			- 14,180

RIO GRANDE BASIN

08341500 BLUEWATER CREEK BELOW BLUEWATER DAM, NM

LOCATION.--Lat 35°18'13", long 108°05'56", in NW¼ sec. 3, T.12 N., R. 12 W., Cibola County, Hydrologic Unit 13020207 on left bank 0.5 mi downstream from Bluewater Dam and 11 mi west of Bluewater.

PERIOD OF RECORD.--March 1951 to September 1960, July 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,290 ft above National Geodetic Vertical Datum of 1929, from topographic map. March 14, 1951 to September 30, 1960 at site 0.5 mi upstream at different datum.

REMARKS.--Records good. Flow regulated by Bluewater Lake (station 08341400) 0.5 mi upstream, since 1927. No flow at times in 1955, 1957.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known occurred Sept. 6, 1909, where Bluewater Dam washed out; stage and discharge not determined. Another major flood probably occurred July 12-19, 1919 when a stage of 13.5 was reached at station (08342000) 8.0 mi downstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	5.0	4.2	4.0	4.9	4.9	5.6	51	40	47	41	25
2	30	4.8	4.2	3.9	4.9	4.9	5.7	62	45	44	41	20
3	29	4.6	4.2	3.9	5.0	4.9	5.9	64	47	43	38	26
4	29	4.7	4.2	3.8	5.1	4.9	6.0	63	47	43	35	25
5	28	4.6	4.2	3.8	5.1	4.9	6.4	63	46	54	32	25
6	27	4.6	4.2	3.9	5.1	4.9	6.4	63	44	72	32	24
7	27	4.6	4.2	3.9	5.1	5.0	6.5	63	44	75	32	24
8	26	4.5	4.1	3.9	5.2	4.9	6.7	63	44	60	32	24
9	26	4.4	4.1	4.0	5.2	4.8	7.3	61	44	60	32	24
10	25	4.4	4.1	4.1	5.1	4.7	7.2	58	48	60	32	24
11	21	4.6	4.1	4.1	5.0	4.7	7.5	55	48	59	32	13
12	18	4.4	4.1	4.2	4.9	4.9	7.5	43	49	55	34	3.6
13	17	4.4	3.9	4.3	4.8	4.7	7.6	37	54	64	35	3.3
14	17	4.4	3.8	4.3	4.9	4.2	7.7	37	56	64	37	3.1
15	17	4.4	3.8	4.4	4.9	4.2	7.7	37	55	64	39	3.0
16	11	4.4	3.8	4.4	5.0	4.2	7.9	46	55	64	38	3.0
17	7.3	4.4	3.8	4.4	5.1	4.2	8.1	49	56	64	38	2.8
18	6.9	4.4	3.8	4.7	5.1	4.2	11	49	49	64	39	2.9
19	6.7	4.4	3.8	4.8	5.0	4.3	32	49	42	63	43	2.8
20	6.2	4.4	3.8	4.7	5.0	4.3	39	49	40	61	43	3.1
21	6.1	4.4	3.6	4.7	5.0	4.2	39	48	37	61	43	2.8
22	6.0	4.4	3.5	4.6	5.1	4.3	40	48	32	56	42	2.8
23	5.8	4.7	3.5	4.7	5.0	4.4	40	50	31	50	41	2.8
24	5.6	4.5	3.5	4.8	5.0	4.4	41	51	31	38	41	2.7
25	5.5	4.4	3.6	4.9	5.1	4.6	41	54	35	33	41	2.7
26	5.4	4.4	3.8	4.9	5.1	4.7	46	37	38	28	36	2.8
27	5.5	4.4	3.8	4.8	5.0	4.9	50	19	38	46	34	2.8
28	5.4	4.4	3.8	4.8	5.0	5.0	51	19	41	44	33	2.7
29	5.3	4.2	3.8	4.8	---	5.2	51	19	47	42	33	2.7
30	5.2	4.2	3.8	4.7	---	5.3	51	19	49	41	33	1.8
31	5.0	---	3.9	4.8	---	5.4	---	33	---	41	33	---
TOTAL	466.9	134.4	121.0	136.0	140.7	145.1	649.7	1459	1332	1660	1135	308.2
MEAN	15.1	4.48	3.90	4.39	5.02	4.68	21.7	47.1	44.4	53.5	36.6	10.3
MAX	31	5.0	4.2	4.9	5.2	5.4	51	64	56	75	43	26
MIN	5.0	4.2	3.5	3.8	4.8	4.2	5.6	19	31	28	32	1.8
AC-FT	926	267	240	270	279	288	1290	2890	2640	3290	2250	611

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1994, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994
MEAN	3.97	1.47	1.33	1.45	1.69	2.83
MAX	15.1	4.48	3.90	4.39	5.02	6.25
(WY)	1994	1994	1994	1994	1994	1994
MIN	.49	.51	.28	.39	.45	.68
(WY)	1990	1991	1991	1991	1991	1990

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1989 - 1994
ANNUAL TOTAL	6385.39	7688.0	
ANNUAL MEAN	17.5	21.1	12.4
HIGHEST ANNUAL MEAN			21.1
LOWEST ANNUAL MEAN			.61
HIGHEST DAILY MEAN	58 Sep 22	75 Jul 7	75 Jul 7 1994
LOWEST DAILY MEAN	.80 Jan 4	1.8 Sep 30	.14 Dec 9 1990
ANNUAL SEVEN-DAY MINIMUM	.93 Jan 1	2.6 Sep 24	.17 Dec 5 1990
INSTANTANEOUS PEAK FLOW		79 Jul 6	a83 Jul 11 1992
INSTANTANEOUS PEAK STAGE		3.35 Jul 6	3.35 Jul 6 1994
ANNUAL RUNOFF (AC-FT)	12670	15250	8980
10 PERCENT EXCEEDS	40	51	39
50 PERCENT EXCEEDS	13	6.0	2.0
90 PERCENT EXCEEDS	1.3	3.8	.46

a-From rating curve extended above 50 ft/s.

RIO GRANDE BASIN

08343000 RIO SAN JOSE AT GRANTS, NM

LOCATION.--Lat 35°09'16", Long 107°52'11", in SW¼NW¼ sec.26, T.11 N., R.10 W., Cibola County, Hydrologic Unit 13020207, on right bank upstream 1,500 ft from El Morro St., 0.2 mi south of Santa Fe Ave. in Grants, and at mile 67.8.

DRAINAGE AREA.--1,020 mi², approximately.

PERIOD OF RECORD.--October 1912 to February 1914, June 1914, October 1914 to February 1915, May 1915 to June 1921, September 1921 to June 1923, October 1923 to May 1926, September to December 1926, May 1949 to September 1966, June 1968 to current year. Monthly discharge only for some periods published in WSP 1312. Prior to October 1967, published as "Bluewater Creek at Grants."

REVISED RECORDS.--WSP 1512: 1913-14. WSP 1712: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,468.34 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). See WSP 1732 or 1923 for history of changes prior to Jan. 1, 1926. Prior to 1992 at site on right bank at bridge at El Morro St., at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow slightly regulated by Bluewater Lake (station 08341400) 24 mi upstream. Diversions and ground-water withdrawals for irrigation of about 4,500 acres upstream from station. Several observations of water temperature were made during the year. No flow most of time.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood observed occurred Sept. 6 or 7, 1909, when Bluewater Dam washed out. A flood in July 1919 probably exceeded the one in 1952.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	.00
28	.00	.00	.00	.00	.00	.00	.00	20	.00	e.00	e.00	.00
29	.00	.00	.00	.00	.00	.00	.00	3.9	.00	e.00	e.00	.00
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	e.00	e.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.90	0.00	0.00	0.00	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.77	.000	.000	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	20	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	47	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1994, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1968	.21	2.51	1970	.000	1969
1969	.002	.061	1980	.000	1969
1970	.000	.000	1969	.000	1969
1971	.000	.000	1969	.000	1969
1972	.000	.000	1969	.000	1969
1973	.000	.000	1969	.000	1969
1974	.000	.000	1969	.000	1969
1975	.000	.000	1969	.000	1969
1976	.000	.000	1969	.000	1969
1977	.000	.000	1969	.000	1969
1978	.000	.000	1969	.000	1969
1979	.000	.000	1969	.000	1969
1980	.000	.000	1969	.000	1969
1981	.000	.000	1969	.000	1969
1982	.000	.000	1969	.000	1969
1983	.000	.000	1969	.000	1969
1984	.000	.000	1969	.000	1969
1985	.000	.000	1969	.000	1969
1986	.000	.000	1969	.000	1969
1987	.000	.000	1969	.000	1969
1988	.000	.000	1969	.000	1969
1989	.000	.000	1969	.000	1969
1990	.000	.000	1969	.000	1969
1991	.000	.000	1969	.000	1969
1992	.000	.000	1969	.000	1969
1993	.000	.000	1969	.000	1969
1994	.000	.000	1969	.000	1969

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1968 - 1994
ANNUAL TOTAL	249.23	23.90	
ANNUAL MEAN	.68	.065	.82
HIGHEST ANNUAL MEAN			8.10
LOWEST ANNUAL MEAN			.0000
HIGHEST DAILY MEAN	133	20	355
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		61	a1760
INSTANTANEOUS PEAK STAGE		2.59	5.35
ANNUAL RUNOFF (AC-FT)	494	47	596
10 PERCENT EXCEEDS	.00	.00	.00
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

a-From rating curve extended above 300 ft³/s, on basis of velocity-area studies.

RIO GRANDE BASIN

08343100 GRANTS CANYON AT GRANTS, NM

LOCATION.--Lat 35°09'39", long 107°50'15", in NE¼ sec.25, T.11 N., R.10 W., Cibola County, Hydrologic Unit 15020207, on west side of culvert under Bernalillo Avenue in Grants, 0.2 mi east of intersection of Bernalillo and First Avenues, and 1.1 mi upstream from confluence with Rio San Jose (formerly Bluewater Creek).

DRAINAGE AREA.--13.0 mi².

PERIOD OF RECORD.--December 1961 to current year.

GAGE.--Water-stage recorder and culvert control. Elevation of gage is 6,450 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. No flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.7	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.6	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.30	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.33	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.7	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	20	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1994, BY WATER YEAR (WY)

MEAN	.14	.000	.000	.001	.000	.000	.000	.028	.028	.22	.58	.30
MAX	2.28	.015	.013	.039	.000	.015	.003	.32	.28	1.25	3.49	3.80
(WY)	1973	1980	1966	1963	1962	1978	1968	1970	1966	1977	1963	1967
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1964	1963	1963	1962	1962	1962	1962	1962	1962	1968	1978	1966

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1962 - 1994

ANNUAL TOTAL	11.86	10.30	
ANNUAL MEAN	.032	.028	
HIGHEST ANNUAL MEAN			.11
LOWEST ANNUAL MEAN			.56
HIGHEST DAILY MEAN	3.4 May 20	7.7 Aug 14	.001
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00
INSTANTANEOUS PEAK FLOW		212 Aug 14	a1550
INSTANTANEOUS PEAK STAGE		1.77 Aug 14	b5.10
ANNUAL RUNOFF (AC-FT)	24	20	81
10 PERCENT EXCEEDS	.00	.00	.00
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

a-From rating curve extended above 240 ft³/s, on basis of slope-area measurements at gage heights 3.17 ft, 5.10 ft and 5.38 ft.

b-Maximum gage height 5.38 ft Sept. 8, 1967.

RIO GRANDE BASIN

08343500 RIO SAN JOSE NEAR GRANTS, NM

LOCATION.--Lat 35°04'27", long 107°45'01", in SE¼SE¼ sec.23, T.10 N., R.9 W., Cibola County, Hydrologic Unit 13020207, on right bank at west boundary of Acoma Pueblo Grant, 8.5 mi southeast of Grants, and at mile 57.4.

DRAINAGE AREA.--2,300 mi², approximately, of which 1,130 mi² does not contribute directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1936 to current year. Prior to October 1955, published as "San Jose River near Grants."

REVISED RECORDS.--WSP 898: 1936-39(M). WSP 1512: 1943. WSP 1712: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6,269.47 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good. Flow slightly regulated by Bluewater Lake (station 08341400), 34 mi upstream. Diversions and ground-water withdrawal for irrigation of about 5,100 acres upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood probably occurred Sept. 6 or 7, 1909, following destruction of Bluewater Dam. The peak of Sept. 20, 1963, may have been exceeded by those of July 1919, August and September 1929, and August 1935.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	4.1	2.2	2.6	2.9	3.6	3.8	2.4	4.5	3.5	2.9	4.0
2	4.3	4.2	2.4	2.6	2.9	3.5	3.8	2.3	5.0	3.4	2.9	4.3
3	4.8	4.1	2.4	2.7	2.9	3.4	3.9	2.4	5.3	3.3	2.8	4.4
4	4.9	4.1	2.3	2.8	2.9	3.4	3.9	2.4	5.4	3.2	2.8	4.6
5	4.7	4.0	2.2	2.8	3.0	3.4	3.9	2.4	6.0	3.2	2.7	5.3
6	3.9	3.8	2.3	2.8	3.1	3.3	3.9	2.5	6.2	3.1	2.7	4.5
7	3.6	3.7	2.4	2.7	3.1	3.3	3.7	2.6	6.6	3.0	2.6	3.9
8	3.6	3.6	2.3	2.8	3.1	3.3	3.5	2.6	6.9	3.0	2.6	3.6
9	4.0	3.5	2.3	2.8	3.1	4.2	3.2	2.7	7.2	3.0	2.5	3.5
10	3.7	3.3	2.5	2.8	3.2	3.6	3.0	2.7	7.5	2.9	2.5	3.4
11	3.7	3.3	2.5	2.8	3.3	3.4	2.9	2.6	7.6	3.0	2.5	3.2
12	3.8	3.3	2.4	2.8	3.1	3.4	2.7	2.6	8.1	2.9	2.5	3.2
13	3.8	3.0	2.4	2.8	3.1	3.4	2.6	4.2	8.1	2.9	2.5	3.6
14	3.8	2.8	2.5	2.8	3.1	3.9	2.5	4.2	8.3	3.0	3.5	3.8
15	3.8	3.1	2.5	2.8	3.1	3.7	2.4	3.4	8.3	3.0	3.0	3.8
16	3.8	3.0	2.5	2.7	3.1	3.6	2.3	2.8	8.3	3.1	3.3	3.9
17	3.8	2.8	2.6	2.8	3.2	3.6	2.2	2.6	8.3	3.1	2.7	3.6
18	4.0	2.8	2.6	2.8	3.5	3.6	2.2	2.7	7.7	3.3	2.6	3.4
19	4.0	2.6	2.6	2.8	3.6	3.6	2.2	2.7	7.5	3.4	2.9	3.2
20	4.3	2.5	2.7	2.8	3.9	3.6	2.1	2.7	7.2	3.6	3.0	3.2
21	5.1	2.5	2.8	2.8	3.6	3.6	2.4	2.8	7.0	3.8	3.2	3.4
22	4.3	2.3	2.8	2.8	3.6	3.6	2.7	2.9	6.4	4.1	3.6	3.5
23	5.6	2.2	2.7	2.8	3.5	3.6	2.7	3.2	5.9	4.2	4.1	3.6
24	6.1	2.1	2.6	2.8	3.6	3.6	2.7	3.4	5.6	4.5	4.1	3.8
25	5.3	2.1	2.7	2.9	3.6	3.6	2.5	3.8	5.0	5.7	3.9	4.0
26	4.4	2.2	2.7	3.0	3.6	3.6	2.5	7.3	4.7	3.1	3.8	4.2
27	4.1	2.2	2.6	3.1	3.6	3.6	2.5	7.6	4.0	3.3	3.9	4.3
28	4.0	2.3	2.6	3.2	3.6	3.6	2.4	4.7	3.6	3.5	3.9	4.4
29	4.3	2.5	2.6	3.1	---	3.7	2.4	4.0	3.6	3.4	3.7	4.5
30	4.1	2.3	2.6	3.1	---	3.8	2.4	4.0	3.6	3.2	3.8	4.7
31	4.1	---	2.6	3.0	---	3.8	---	4.3	---	3.0	4.5	---
TOTAL	131.5	90.3	77.9	87.9	91.9	110.9	85.9	103.5	189.4	104.7	98.0	116.8
MEAN	4.24	3.01	2.51	2.84	3.28	3.58	2.86	3.34	6.31	3.38	3.16	3.89
MAX	6.1	4.2	2.8	3.2	3.9	4.2	3.9	7.6	8.3	5.7	4.5	5.3
MIN	3.6	2.1	2.2	2.6	2.9	3.3	2.1	2.3	3.6	2.9	2.5	3.2
AC-FT	261	179	155	174	182	220	170	205	376	208	194	232

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1994, BY WATER YEAR (WY)

	MEAN	5.66	5.33	5.24	5.62	5.77	5.67	8.41	8.25	5.51	6.84	9.40	6.67
MAX	16.6	9.76	7.82	10.5	11.6	11.4	91.3	128	10.2	24.0	53.2	24.6	
(WY)	1973	1980	1978	1945	1944	1985	1980	1941	1941	1957	1957	1975	
MIN	2.43	3.01	2.51	2.84	3.28	3.58	2.86	3.34	3.70	3.38	3.16	3.52	
(WY)	1990	1994	1994	1994	1994	1994	1994	1994	1967	1994	1994	1990	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1937 - 1994

ANNUAL TOTAL	1663.7	1288.7	
ANNUAL MEAN	4.56	3.53	6.54
HIGHEST ANNUAL MEAN			19.3
LOWEST ANNUAL MEAN			3.53
HIGHEST DAILY MEAN	99	Aug 31	538
LOWEST DAILY MEAN	2.1	Nov 24	2.1
ANNUAL SEVEN-DAY MINIMUM	2.2	Nov 22	2.2
INSTANTANEOUS PEAK FLOW			22
INSTANTANEOUS PEAK STAGE			1.89
INSTANTANEOUS LOW FLOW			1.9
ANNUAL RUNOFF (AC-FT)	3300	2560	4740
10 PERCENT EXCEEDS	7.0	4.7	7.2
50 PERCENT EXCEEDS	3.6	3.3	5.1
90 PERCENT EXCEEDS	2.6	2.5	4.2

a-From rating curve extended above 450 ft³/s, on basis of slope-area measurements at gage heights 3.19 ft and 4.87 ft.

RIO GRANDE BASIN

08343500 RIO SAN JOSE NEAR GRANTS, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1980-82, 1986 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	
OCT 1993												
20...	1400	4.2	875	8.2	14.0	16.5	610	9.3	120	11	2	
DEC 22...	1430	2.8	983	8.2	3.5	13.0	605	8.9	107	10	1	
APR 1994												
28...	1030	5.3	963	8.7	8.0	13.0	605	8.1	97	--	K2	
JUL 28...	1130	3.3	644	7.8	26.5	17.0	610	7.9	103	<10	0	
AUG 25...	1030	4.1	993	8.0	27.0	16.0	610	7.9	101	<10	K14	
DATE		STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)
OCT 1993												
20...	3	310	120	73	32	94	2	5.2	237	0	194	
DEC 22...	2	--	--	--	--	--	--	--	295	0	243	
APR 1994												
28...	K2	300	100	67	31	90	2	4.6	187	22	189	
JUL 28...	23	310	120	70	32	93	2	4.5	222	0	182	
AUG 25...	21	--	--	--	--	--	--	--	234	0	192	
DATE		ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 1993												
20...	201	230	65	0.80	35	656	--	<0.010	0.880	0.040	<0.20	
DEC 22...	--	--	--	--	--	--	--	<0.010	0.950	0.040	<0.20	
APR 1994												
28...	192	220	61	0.90	27	618	--	<0.010	0.600	0.030	<0.20	
JUL 28...	201	230	66	0.70	33	642	0.800	0.020	0.820	0.060	<0.20	
AUG 25...	--	--	--	--	--	--	--	<0.010	0.830	0.040	<0.20	

RIO GRANDE BASIN

08343500 RIO SAN JOSE NEAR GRANTS, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	PHOS-PHOSURUS TOTAL (MG/L AS P) (00665)	PHOS- PHOSURUS ORTH, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)
OCT 1993											
20...	0.060	0.060	0.7	5	5	220	<1	<1.0	1	<1	<1
DEC											
22...	0.070	0.060	0.7	--	--	--	--	--	--	--	--
APR 1994											
28...	0.050	0.050	0.9	--	--	200	--	--	--	--	--
JUL											
28...	0.080	0.050	1.0	6	5	220	<1	<1.0	2	2	1
AUG											
25...	0.120	0.100	1.8	--	--	--	--	--	--	--	--

DATE	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	NITRO- GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)
OCT 1993											
20...	<1	5	<1	<1	<0.10	<0.1	4	4	<10	6	3.0
DEC											
22...	--	--	--	--	--	--	--	--	--	--	--
APR 1994											
28...	--	4	--	--	--	--	--	--	--	--	--
JUL											
28...	<1	4	<1	<1	<0.10	<0.1	4	4	<10	<3	--
AUG											
25...	--	--	--	--	--	--	--	--	--	--	--

DATE	NITRO- GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOS- PHOSURUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD) (01028)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CR) (01029)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01034)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB) (01052)
OCT 1993										
20...	140	3400	1700	2	2	40	20	20	21000	20
DEC										
22...	--	--	--	--	--	--	--	--	--	--
APR 1994										
28...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	--	--	--	--	--	--	--	--	--	--
AUG										
25...	--	--	--	--	--	--	--	--	--	--

DATE	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN) (01093)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 1993										
20...	170	0.01	70	0.08	0.020	2.9	<1.0	--	--	--
DEC										
22...	--	--	--	--	--	--	--	34	0.26	90
APR 1994										
28...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	--	--	--	0.05	0.010	2.9	<1.0	36	0.32	83
AUG										
25...	--	--	--	--	--	--	--	15	0.17	84

08343500 RIO SAN JOSE NEAR GRANTS, NM -- Continued

WATER-QUALITY RECORDS

CHEMICAL ANALYSIS OF SUBSTANCE SAMPLE NUMBER: FTS-20-BP-68 IN MONTHS FROM DATE OF RECEIPTED TO 1967

DATE	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDO- SULFAN, TOTAL (UG/L) (39388)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	TOX- APHENE, TOTAL (UG/L) (39400)	HEPTA- CHLOR, TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)
OCT 20...	--	--	--	--	--	--	--	--	--	--
DEC 22...	--	--	--	--	--	--	--	--	--	--
APR 28...	--	--	--	--	--	--	--	--	--	--
JUL 28...	--	--	--	--	--	--	--	--	--	--
AUG 25...	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<1	<0.010	<0.010

[illegible]

RIO GRANDE BASIN

08351500 RIO SAN JOSE AT CORREO, NM

LOCATION.--Lat 34°58'03", long 107°10'10", in NE¼ sec.32, T.9 N., R.3 W., Cibola County, Hydrologic Unit 13020207, on left bank 0.3 mi downstream from State Highway 6, 1.2 mi northeast of Correo, and 13 mi upstream from mouth.

DRAINAGE AREA.--3,660 mi², approximately, of which about 1,130 mi² does not contribute directly to surface runoff.

PERIOD OF RECORD.--April 1943 to September 1994 (discontinued). Prior to October 1955, published as "San Jose River at Correo."

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,474.88 ft above National Geodetic Vertical Datum of 1929. Oct. 1, 1958 to Sept. 30, 1975, water-stage recorder at site 1 mi upstream at datum 17.55 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated to some extent since 1927 by Bluewater Lake (station 08341400) 79 mi upstream. Several observations of water temperature were made during the year. No flow many days.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood that probably occurred Aug. 21, 1935, reached a stage of 15.4 ft, from floodmarks, (discharge, about 11,000 ft³/s), but was probably exceeded by the flood of Sept. 23, 1929 (discharge not determined), based on study of records for Rio Puerco at Rio Puerco.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	2.4	5.8	5.4	4.8	6.3	5.3	.00	2.9	.00	6.6	6.4
2	.30	2.3	4.4	7.0	4.8	6.4	5.2	.00	8.9	.00	2.3	96
3	.06	2.2	4.3	6.8	5.7	6.6	5.1	.00	3.2	.00	.27	34
4	.00	2.0	e4.1	6.1	5.9	6.2	4.3	.00	1.5	.00	.00	47
5	.00	1.9	e3.8	7.5	9.3	6.2	3.7	.00	.89	.00	.00	55
6	.00	3.7	e3.9	7.7	8.4	6.2	4.7	.00	.42	.00	.00	18
7	.00	4.7	e4.1	4.3	8.8	6.8	4.8	.00	.00	.00	.00	2.1
8	.00	5.4	e3.9	3.7	9.2	7.6	4.7	.00	.00	.00	2.7	62
9	.00	6.0	e4.0	3.9	7.4	8.2	4.2	.00	.00	.00	1.6	30
10	.00	5.4	e4.1	4.4	6.9	7.2	3.4	.00	.00	.00	.62	15
11	.00	5.9	e4.1	4.7	6.6	7.1	4.8	.00	.00	.00	.12	12
12	.00	6.8	e4.9	5.8	6.5	7.3	4.6	.00	.00	.00	.00	47
13	.00	7.2	e4.8	5.4	5.7	7.8	4.3	.00	.00	.00	.00	176
14	.00	6.7	e3.6	5.6	4.7	7.1	4.3	.00	.00	.00	3.5	696
15	1.5	6.6	e3.8	7.3	5.7	6.6	3.8	.00	.00	.00	182	260
16	1.8	6.7	e3.9	7.2	6.6	6.7	2.2	.00	.00	.00	210	52
17	.92	6.6	e3.7	6.8	6.2	6.2	1.6	.00	.00	.00	e100	23
18	.35	6.7	e3.8	6.8	6.1	6.0	.82	.00	.00	.00	e11	8.6
19	.00	6.9	e3.7	6.4	6.0	5.7	.31	.00	.00	.00	e2.5	3.7
20	.00	6.8	e3.4	5.9	6.0	5.6	.13	.00	.00	.00	e1.2	2.2
21	.00	6.9	e3.1	5.6	6.2	5.6	1.9	.00	.00	.00	e1.5	.98
22	.00	7.0	e3.4	5.4	6.2	5.4	1.7	.00	.00	.00	e2.0	1.6
23	3.3	7.4	e3.7	5.4	6.3	5.3	3.7	.00	.00	.00	e2.5	.91
24	4.7	6.9	4.3	6.7	6.1	5.0	.37	.00	.00	.00	e3.5	.76
25	4.5	5.7	3.9	7.1	6.3	5.0	.64	.00	.00	.00	4.2	.75
26	5.1	3.9	5.0	6.7	6.2	5.0	1.6	2.5	.00	.00	21	.77
27	3.8	2.8	5.9	5.7	6.2	5.0	1.8	107	.00	.00	15	.74
28	3.1	2.8	7.2	7.4	6.2	5.4	2.4	78	.00	.00	3.6	.64
29	2.8	3.6	7.8	5.6	---	5.5	.87	19	.00	5.7	1.3	.46
30	2.6	4.9	6.5	4.4	---	5.4	.23	8.8	.00	62	.50	.41
31	2.5	---	6.1	5.5	---	5.2	---	5.2	---	28	.08	---
TOTAL	37.66	154.8	139.0	184.2	181.0	191.6	87.47	220.50	17.81	95.70	579.59	1654.02
MEAN	1.21	5.16	4.48	5.94	6.46	6.18	2.92	7.11	.59	3.09	18.7	55.1
MAX	5.1	7.4	7.8	7.7	9.3	8.2	5.3	107	8.9	62	210	696
MIN	.00	1.9	3.1	3.7	4.7	5.0	.13	.00	.00	.00	.00	.41
AC-FT	75	307	276	365	359	380	173	437	35	190	1150	3280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1994, BY WATER YEAR (WY)

	MEAN	12.8	3.59	2.87	4.45	5.86	5.55	6.08	3.98	2.67	16.6	48.6	21.6
MAX	123	39.2	13.0	20.1	42.9	39.4	82.6	33.3	33.4	170	363	126	
(WY)	1973	1987	1987	1987	1987	1973	1973	1949	1967	1957	1955	1954	
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.042	.000	
(WY)	1944	1944	1944	1951	1951	1950	1943	1945	1944	1960	1980	1953	

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1943 - 1994
ANNUAL TOTAL	4419.82	3543.35	
ANNUAL MEAN	12.1	9.71	11.3
HIGHEST ANNUAL MEAN			40.4
LOWEST ANNUAL MEAN			1.48
HIGHEST DAILY MEAN	1330	696	4100
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		1030	7150
INSTANTANEOUS PEAK STAGE		6.07	a20.70
ANNUAL RUNOFF (AC-FT)	8770	7030	8190
10 PERCENT EXCEEDS	9.3	7.7	12
50 PERCENT EXCEEDS	3.3	3.8	.00
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

a-Backwater from dam (present datum).

RIO GRANDE BASIN

08353000 RIO PUERCO NEAR BERNARDO, NM

LOCATION.--Lat 34°24'33", long 106°51'09", in SE¼ sec.8, T.2 N., R.1 E., Socorro County, Hydrologic Unit 13020204, 3.0 mi upstream from mouth, and 18 mi south of Belen.

runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1939 to current year. Fragmentary gage-height record and footnotes concerning no flow for the period September 1910 to August 1914, published in WSP 358 and 388, are in error and should not be used. REVISED RECORDS.--WSP 1512: 1941-42, 1944-45, 1946(P), 1947-49. WSP 1632: 1957. WSP 1732: Drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 4,722.34 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 24, 1969, at datum 3.10 ft higher.

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor. Diversions for irrigation of about 11,500 acres upstream from station (includes 3,700 acres irrigated wholly or partly from wells).

EXTREMES OUTSIDE PERIOD OF RECORD.--The greatest flood since about 1880 occurred Sept. 23, 1929, from information by local residents (discharge, about 35,000 ft³/s, estimated on basis of peak at Rio Puerco). Another flood occurred Aug. 12, 1929 (discharge, 30,600 ft³/s, by slope-area measurement, from reports of New Mexico State Engineer).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	e.00	e.00	e.00	e.00	11	e.00	27	e13
2	.00	.00	.00	.00	e.00	e.00	e.00	e.00	6.3	e.00	16	e12
3	.00	.00	.00	.00	e.00	e.00	e.00	e.00	2.0	e.00	47	351
4	.00	.00	.00	.41	e.00	e.00	e.00	e.00	e.00	e.00	13	440
5	.00	.00	.00	.71	e.00	e.00	e.00	e.00	e.00	e.00	e2.0	217
6	.00	.00	.00	.71	e.00	e.00	e.00	e.00	e.00	e.00	e1.0	241
7	.00	.00	.00	.94	e.00	e.00	e.00	e.00	e.00	e.00	e1.0	103
8	.00	.00	.00	3.3	e10	e.00	e.00	e.00	e.00	e.00	e25	e24
9	.00	.00	.00	.53	e5.0	e.00	e.00	e.00	e.00	e.00	8.0	e70
10	.00	.00	.00	.00	e3.0	e2.2	e.00	e.00	e.00	e.00	e8.0	69
11	.00	.00	.00	.00	e1.2	e2.2	e.00	e.00	e.00	e.00	e4.0	31
12	.00	.00	.00	.00	e.00	e2.2	e.00	e.00	e.00	e.00	e2.0	e25
13	.00	.00	.06	.00	e.00	e3.0	e.00	e.00	e.00	e.00	e1.0	58
14	.00	.00	.65	.00	e.00	e4.0	e.00	e.00	e.00	e.00	e1.0	393
15	.00	.00	.00	.00	e.00	e5.0	e.00	e7.6	e.00	e.00	216	420
16	.00	.00	.00	.00	e.00	e3.8	e.00	e17	e.00	e.00	414	442
17	.00	.00	.00	.00	e.00	e2.3	e.00	e31	e.00	e.00	437	156
18	.00	.00	.00	.00	e.00	e2.0	e.00	e34	e.00	e.00	1680	55
19	.00	.00	.00	.00	e.00	e1.0	e.00	e37	e.00	e.00	275	e10
20	.00	.00	.00	.00	e.00	e.00	e.00	e32	e.00	e.00	49	e5.0
21	.00	.00	.00	.00	e.00	e.00	e.00	e26	e.00	10	35	e3.0
22	.00	.00	.00	.00	e.00	e.00	e.00	e17	e.00	9.7	354	e2.0
23	.00	.00	.00	.61	e.00	e.00	e.00	e21	e.00	2.0	505	e1.6
24	.00	.00	.00	.72	e.00	e.00	e.00	e9.1	e.00	e.00	204	1.1
25	.00	.00	.00	.92	e.00	e.00	e.00	e3.7	e.00	e.00	62	.98
26	.00	.00	.00	1.5	e.00	e.00	e.00	e14	e.00	e.00	22	1.4
27	.00	.00	.00	2.8	e.00	e.00	e.00	e50	e.00	e11	e6.0	.79
28	.00	.00	.00	5.3	e.00	e.00	e.00	135	e.00	139	99	.00
29	.00	.00	.00	2.4	---	e.00	e.00	112	e.00	31	15	.00
30	.00	.00	.00	2.2	---	e.00	e.00	43	e.00	5.4	e9.0	.00
31	.00	---	.00	1.2	---	e.00	---	20	---	16	e9.5	---
TOTAL	0.00	0.00	0.71	24.25	19.20	27.70	0.00	609.40	19.30	224.10	4547.5	3145.87
MEAN	.000	.000	.023	.78	.69	.89	.000	19.7	.64	7.23	147	105
MAX	.00	.00	.65	5.3	10	5.0	.00	135	11	139	1680	442
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.0	.00
AC-FT	.00	.00	1.4	48	38	55	.00	1210	38	445	9020	6240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1994, BY WATER YEAR (WY)

	MEAN	52.5	7.39	1.26	2.59	16.4	19.4	15.6	43.8	18.5	65.1	192	89.5
MAX	586	100	26.6	70.0	142	208	179	885	203	362	922	584	
(WY)	1942	1987	1985	1993	1979	1960	1973	1941	1941	1955	1957	1972	
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.92	.000	
(WY)	1952	1940	1940	1940	1942	1942	1944	1950	1945	1942	1986	1956	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1940 - 1994

ANNUAL TOTAL	13050.48	8618.03	
ANNUAL MEAN	35.8	23.6	43.8
HIGHEST ANNUAL MEAN			171
LOWEST ANNUAL MEAN			5.47
HIGHEST DAILY MEAN	771	Aug 31	1680
LOWEST DAILY MEAN	.00	May 15	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 13	.00
INSTANTANEOUS PEAK FLOW			3010
INSTANTANEOUS PEAK STAGE			15.71
ANNUAL RUNOFF (AC-FT)	25890	17090	31700
10 PERCENT EXCEEDS	98	31	69
50 PERCENT EXCEEDS	2.0	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

a-From rating curve extended above 7,800 ft³/s.

b-Maximum gage height, 16.9 ft, present datum, Aug. 12, 1955.

RIO GRANDE BASIN

08353000 RIO PUERCO NEAR BERNARDO, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947 to current year.
 SPECIFIC CONDUCTANCE: July 1956 to current year.
 WATER TEMPERATURE: October 1964 to current year.
 SUSPENDED-SEDIMENT DISCHARGE: October 1947 to current year.

REMARKS.--Daily suspended-sediment samples are collected when flow is observed on this ephemeral stream.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 11,400 microsiemens, June 10, 1968; minimum daily, 238 microsiemens, July 30, 1969.
 WATER TEMPERATURE: Maximum daily, 32.0 °C, July 29, 1977; minimum daily, 0.0 °C, Dec. 30, 1971, Mar. 3, 1985.
 SEDIMENT CONCENTRATION: Maximum daily mean, 267,000 mg/L, July 26, 1957; minimum daily mean, no flow on many days of each year.
 SEDIMENT LOAD: Maximum daily, 2,240,000 tons, Aug. 7, 1957; minimum daily, 0 ton on many days of each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, undetermined; minimum daily, undetermined.
 WATER TEMPERATURE: Maximum daily, undetermined; minimum daily, undetermined.
 SEDIMENT CONCENTRATION: Maximum daily mean, 141,000 mg/L, Aug. 9; minimum daily mean, no flow on many days.
 SEDIMENT LOAD: Maximum daily, 226,000 tons, Aug. 18; minimum daily, 0 ton on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM HG) / (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
FEB 1994											
11...	0900	1.2	2960	8.2	3.0	1.0	640	12.0	102	670	460
MAR											
14...	1045	4.0	2960	8.5	11.0	8.5	648	10.8	110	660	470
MAY											
17...	1000	17	2040	8.2	22.0	12.5	642	9.1	102	610	500
AUG											
15...	1015	119	487	8.5	19.0	19.0	648	6.7	85	77	24
18...	0945	2350	1460	7.8	30.0	21.0	645	4.6	61	300	180
19...	0940	133	1560	8.0	--	22.5	645	6.4	88	310	200
SEP											
19...	1015	29	1210	8.1	22.0	17.5	649	7.8	96	300	190

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
FEB 1994											
11...	150	71	430	7	10	249	0	204	209	980	280
MAR											
14...	140	75	460	8	12	219	3	180	181	1000	300
MAY											
17...	170	45	320	6	4.7	139	0	114	155	1000	75
AUG											
15...	24	4.1	52	3	4.0	62	1	52	--	120	23
18...	90	19	200	5	5.6	144	0	118	160	560	29
19...	93	19	200	5	5.8	135	0	110	147	630	34
SEP											
19...	90	18	140	4	5.1	130	0	106	130	440	42

RIO GRANDE BASIN

08353000 RIO PUERCO NEAR BERNARDO, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
FEB 1994										
11...	1.0	19	2190	2060	0.190	0.030	0.220	0.040	0.26	0.40
MAR										
14...	0.90	15	2150	2110	--	<0.010	<0.050	0.030	--	0.50
MAY										
17...	1.0	7.8	1770	1700	0.880	0.010	0.890	0.040	0.26	24
AUG										
15...	<0.10	7.8	310	274	1.68	0.020	1.70	0.040	0.26	28
18...	0.10	7.9	1040	989	--	<0.010	1.50	0.010	0.39	33
19...	1.0	7.8	1110	1060	--	<0.010	1.40	0.020	0.28	27
SEP										
19...	0.80	7.1	812	810	--	<0.010	0.780	0.030	0.17	14

DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	RA-226 2 SIGMA WATER, DISS. (PCI/L) (76001)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	URANIUM NATURAL 2 SIGMA WATER, DISS. (UG/L) (75990)
FEB 1994										
11...	0.30	0.050	0.020	0.010	170	7	0.09	0.020	8.3	1.2
MAR										
14...	<0.20	0.150	<0.010	<0.010	11	5	--	--	--	--
MAY										
17...	0.30	17.0	<0.010	0.010	<9	<3	--	--	--	--
AUG										
15...	0.30	0.230	0.070	0.040	91	6	--	--	--	--
18...	0.40	17.0	0.020	0.020	5	<1	--	--	--	--
19...	0.30	18.0	0.020	<0.010	<3	<1	--	--	--	--
SEP										
19...	0.20	7.80	<0.010	0.010	5	<1	--	--	--	--

08353000 - RIO PUERCO NEAR BERNARDO, NM

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER 0.062 MM THAN (70331)
JAN 1994							
06...	1010	0.71	--	0.5	1800	3.5	99
FEB							
11...	0900	1.2	2960	1.0	409	1.3	99
MAR							
14...	1045	4.0	2960	6.5	618	6.7	97
MAY							
06...	1415	--	--	20.0	69300	--	100
17...	1000	17	2040	12.5	65300	2930	100
19...	1010	32	--	16.0	80200	6930	99
27...	1415	50	--	21.0	50000	6750	99
JUL							
29...	1145	28	--	23.0	38200	2890	99
AUG							
15...	1015	119	487	19.0	46100	14800	95
18...	0945	2350	1460	21.0	46400	294000	95
18...	1645	2790	--	22.5	29200	220000	--
19...	0940	133	1560	22.5	46400	16700	98
SEP							
08...	1410	24	--	25.0	11800	765	100
19...	1015	29	1210	17.5	17800	1380	100
29...	1300	--	--	22.5	15	--	--

RIO GRANDE BASIN

08353000 RIO PUERCO NEAR BERNARDO, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)
JAN 1994							
06...	--	--	--	--	--	--	--
FEB							
11...	--	--	--	--	--	--	--
MAR							
14...	--	--	--	--	--	--	--
MAY							
06...	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--
JUL							
29...	--	--	--	--	--	--	--
AUG							
15...	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--
18...	71	87	96	98	98	99	100
19...	--	--	--	--	--	--	--
SEP							
08...	79	91	98	99	--	--	--
19...	--	--	--	--	--	--	--
29...	--	--	--	--	63	67	100

RIO GRANDE BASIN

08353000 RIO PUERCO NEAR BERNARDO, NM -- Continued

WATER-QUALITY RECORDS

SUSPENDED SEDIMENT, WATER LEAK CALDEX 1993 TO DECEMBER 1999

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	CONCENTRATION (MG/L)	LOADS (T/DAY)	CONCENTRATION (MG/L)	LOADS (T/DAY)	CONCENTRATION (MG/L)	LOADS (T/DAY)	CONCENTRATION (MG/L)	LOADS (T/DAY)	CONCENTRATION (MG/L)	LOADS (T/DAY)	CONCENTRATION (MG/L)	LOADS (T/DAY)
1	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
2	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
3	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
4	0	.00	0	.00	0	.00	2550	2.8	0	.00	0	.00
5	0	.00	0	.00	0	.00	2030	3.9	0	.00	0	.00
6	0	.00	0	.00	0	.00	1530	2.9	0	.00	0	.00
7	0	.00	0	.00	0	.00	1080	2.8	0	.00	0	.00
8	0	.00	0	.00	0	.00	566	5.0	1350	36	0	.00
9	0	.00	0	.00	0	.00	418	.60	1720	23	0	.00
10	0	.00	0	.00	0	.00	0	.00	1290	10	18600	110
11	0	.00	0	.00	0	.00	0	.00	419	1.4	10300	61
12	0	.00	0	.00	0	.00	0	.00	0	.00	1510	9.0
13	0	.00	0	.00	926	.15	0	.00	0	.00	882	7.1
14	0	.00	0	.00	1960	3.4	0	.00	0	.00	1140	12
15	0	.00	0	.00	0	.00	0	.00	0	.00	4780	65
16	0	.00	0	.00	0	.00	0	.00	0	.00	5670	58
17	0	.00	0	.00	0	.00	0	.00	0	.00	2740	17
18	0	.00	0	.00	0	.00	0	.00	0	.00	4160	22
19	0	.00	0	.00	0	.00	0	.00	0	.00	2070	5.6
20	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
21	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
22	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
23	0	.00	0	.00	0	.00	931	1.5	0	.00	0	.00
24	0	.00	0	.00	0	.00	595	1.2	0	.00	0	.00
25	0	.00	0	.00	0	.00	383	.95	0	.00	0	.00
26	0	.00	0	.00	0	.00	641	2.6	0	.00	0	.00
27	0	.00	0	.00	0	.00	3690	28	0	.00	0	.00
28	0	.00	0	.00	0	.00	3970	57	0	.00	0	.00
29	0	.00	0	.00	0	.00	2000	13	---	---	0	.00
30	0	.00	0	.00	0	.00	1500	8.9	---	---	0	.00
31	0	.00	---	---	0	.00	1480	4.8	---	---	0	.00
TOTAL	---	0.00	---	0.00	---	3.55	---	135.95	---	70.40	---	366.70

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

[illegible]

RIO GRANDE BASIN

08354500 SOCORRO MAIN CANAL NORTH AT SAN ACACIA, NM

LOCATION.--Lat 34°15'17", long 106°53'43", in SE¼NW¼ sec.1, T.1 S., R.1 W., Socorro County, Hydrologic Unit 13020203, on right bank at San Acacia, and 0.5 mi downstream from point of diversion.

PERIOD OF RECORD.--April 1936 to September 1964 (monthly discharge only), October 1964 to current year.

REVISED RECORDS.--WSP 1242: 1951.

GAGE.--Water-stage recorder. Datum of gage is 4,660.16 ft above National Geodetic Vertical Datum of 1929 (U.S. Bureau of Reclamation bench mark). Prior to Mar. 8, 1958, at site 300 ft upstream (in old channel) at datum 0.42 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. This canal is 1 of 3 channels (stations 08354800, 08354900) carrying flow in valley cross section. For combined monthly flow in acre-ft of this canal, conveyance channel, and floodway, see tabulation below daily table for 08354900. Canal diverts water from right bank of Rio Grande for irrigation of about 8,000 acres. Alamillo acequia and 3 other smaller ditches divert water from canal upstream from station for irrigation of about 400 acres. Discharge records collected at the canal heading from October 1964 to September 1965 indicate that 7,770 acre-ft or 9% reaching the regular gaging station. Several observations of water temperature were made during the year. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	265	96	.00	.00	.00	e65	231	262	247	301	263	239
2	269	.00	.00	.00	.00	e144	209	266	269	310	266	232
3	260	.00	.00	.00	.00	e166	191	258	276	304	274	201
4	261	.00	.00	.00	.00	173	217	263	266	305	265	120
5	266	.00	.00	.00	.00	173	226	260	261	298	290	e110
6	263	.00	.00	.00	.00	173	226	258	268	305	301	e100
7	260	.00	.00	.00	.00	188	239	262	304	318	289	129
8	259	.00	.00	.00	.00	199	250	283	294	318	296	138
9	263	.00	.00	.00	.00	197	230	266	285	308	313	186
10	266	.00	.00	.00	.00	191	235	274	294	314	297	171
11	266	.00	.00	.00	.00	189	247	274	298	300	295	178
12	259	.00	.00	.00	.00	165	246	265	276	283	298	200
13	261	.00	.00	.00	.00	166	242	246	287	281	303	230
14	263	.00	.00	.00	.00	185	236	256	295	272	303	217
15	265	.00	.00	.00	.00	195	243	260	311	286	170	154
16	264	.00	.00	.00	.00	215	260	258	297	289	e100	215
17	260	.00	.00	.00	.00	224	256	266	302	282	102	197
18	263	.00	.00	.00	.00	231	249	269	300	243	105	190
19	265	.00	.00	.00	.00	232	253	263	316	282	120	184
20	260	.00	.00	.00	.00	236	253	258	314	273	125	204
21	261	.00	.00	.00	.00	229	253	262	317	277	196	182
22	256	.00	.00	.00	.00	228	250	266	324	291	237	222
23	249	.00	.00	.00	.00	235	247	274	319	292	213	232
24	254	.00	.00	.00	.00	234	237	271	323	285	231	232
25	253	.00	.00	.00	.00	232	250	257	316	284	246	235
26	249	.00	.00	.00	.00	227	248	226	313	280	258	236
27	234	.00	.00	.00	.00	232	261	195	309	285	265	232
28	237	.00	.00	.00	.00	230	252	186	315	279	256	226
29	239	.00	.00	.00	---	223	250	189	317	258	226	232
30	241	.00	.00	.00	---	220	260	187	321	258	239	231
31	246	---	.00	.00	---	232	---	206	---	251	242	---
TOTAL	7977	96.00	0.00	0.00	0.00	6229	7247	7786	8934	8912	7384	5855
MEAN	257	3.20	.000	.000	.000	201	242	251	298	287	238	195
MAX	269	96	.00	.00	.00	236	261	283	324	318	313	239
MIN	234	.00	.00	.00	.00	65	191	186	247	243	100	100
AC-FT	15820	190	.00	.00	.00	12360	14370	15440	17720	17680	14650	11610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1994, BY WATER YEAR (WY)

	120	9.72	8.29	7.59	5.60	143	195	194	188	168	143	123
MEAN	120	9.72	8.29	7.59	5.60	143	195	194	188	168	143	123
MAX	257	86.0	79.0	56.7	52.4	201	246	269	298	287	238	223
(WY)	1994	1989	1976	1976	1979	1994	1989	1993	1994	1994	1994	1992
MIN	17.1	.000	.000	.000	.000	39.4	121	81.0	49.9	43.8	56.2	12.6
(WY)	1964	1967	1964	1964	1964	1983	1967	1977	1977	1964	1964	1975

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1964 - 1994
ANNUAL TOTAL	54497.00	60420.00	
ANNUAL MEAN	149	166	109
HIGHEST ANNUAL MEAN			166
LOWEST ANNUAL MEAN			63.7
HIGHEST DAILY MEAN	301	324	324
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
ANNUAL RUNOFF (AC-FT)	108100	119800	79190
10 PERCENT EXCEEDS	274	295	230
50 PERCENT EXCEEDS	184	230	116
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

RIO GRANDE BASIN

08354800 RIO GRANDE CONVEYANCE CHANNEL AT SAN ACACIA, NM

LOCATION.--Lat 34°14'54", long 106°54'04", in SW¼ sec.1, T.1 S., R.1 W., Socorro County, Hydrologic Unit 13020203, on right bank 75 ft upstream from railway crossing 0.5 mi south of San Acacia and 1.2 mi downstream from San Acacia diversion dam.

PERIOD OF RECORD.--October 1958 to September 1994 included in composite flow of station 08355000, "Rio Grande at San Acacia." October 1960 to September 1964 (monthly discharge published in WSP 1923 with records for station 08355000), October 1964 to September 1994 (discontinued). Daily records 1958-64 are available in files at district office.

GAGE.--Water-stage recorder. Datum of gage is 4,652.50 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Records good. Conveyance channel, constructed in 1958, is 1 of 3 channels (stations 08354500, 08354900) carrying flow in valley cross section. Original design and plan were for conveyance channel to carry all flows up to about 2,000 ft³/s. For combined monthly flow in acre-ft of this channel, floodway, and Socorro main canal north, see tabulation below daily table for station 08354900. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.00	.00	.00	.00	.00	8.2	.00	.00	.06	.00	.00
2	.33	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00
3	.33	.00	.00	.00	.00	.00	.00	3.1	.00	.00	.00	.02
4	.25	.00	.00	.00	.00	.00	.00	13	.00	.00	.00	.01
5	.17	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00
6	.18	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00
7	.18	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00
8	.17	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00
9	.18	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00
10	.17	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00
11	.22	.00	.00	.00	.00	.00	.00	.00	.11	.00	.00	.00
12	.17	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00
13	.18	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00
14	.25	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00
15	.33	.00	.00	.00	.00	.00	.00	.00	.10	.00	.08	.00
16	.23	.00	.00	.00	.00	.00	.00	.00	.05	.00	.04	.00
17	.33	.00	.00	.00	.00	.00	.00	.00	.16	.00	.00	.00
18	.27	.00	.00	.00	.00	.00	.00	.00	.17	.00	.00	.00
19	.32	.00	.00	.00	.00	.00	.00	9.6	.14	.00	.00	.00
20	.17	.00	.00	.00	.00	.00	.07	8.7	.18	.00	.00	.00
21	.08	.00	.00	.00	.00	.00	.00	.00	.21	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.20	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	6.7	.00	.16	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	15	.00	.12	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	14	.00	.10	.00	.00	.00
26	.04	.00	.00	.00	.00	.00	6.3	.00	.08	.00	.00	.00
27	.16	.00	.00	.00	.00	.00	.00	.00	.07	.05	.00	.00
28	.13	.00	.00	.00	.00	.00	.00	.00	.10	.02	.00	.00
29	.16	.00	.00	.00	.00	.00	.00	.00	.11	.00	.00	.00
30	.10	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00
31	.01	.00	.00	.00	.00	.55	.00	.00	.00	.00	.00	.00
TOTAL	5.12	0.00	0.00	0.00	0.00	0.55	50.27	34.40	2.66	0.16	0.12	0.03
MEAN	.17	.000	.000	.000	.000	.018	1.68	1.11	.089	.005	.004	.001
MAX	.33	.00	.00	.00	.00	.55	15	13	.21	.06	.08	.02
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	10	.00	.00	.00	.00	1.1	100	68	5.3	.3	.2	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1994, BY WATER YEAR (WY)

	135	641	654	530	537	426	395	509	387	207	186	134
MEAN	135	641	654	530	537	426	395	509	387	207	186	134
MAX	765	1644	1823	1513	1255	1240	1506	1663	1580	1522	829	633
(WY)	1985	1966	1966	1974	1962	1966	1979	1979	1980	1979	1967	1972
MIN	.000	.000	.000	.000	.000	.000	.000	.007	.000	.000	.000	.000
(WY)	1988	1988	1986	1988	1987	1991	1991	1993	1986	1987	1987	1987

SUMMARY STATISTICS FOR 1993 CALENDAR YEAR FOR 1994 WATER YEAR WATER YEARS 1959 - 1994

ANNUAL TOTAL	13.99	93.31	
ANNUAL MEAN	.038	.26	
HIGHEST ANNUAL MEAN			394
LOWEST ANNUAL MEAN			1033
HIGHEST DAILY MEAN	1.1 Feb 11	15 Apr 24	.049 1973
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 22	1950 May 12 1966
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Nov 1	.00 Jul 22 1959
ANNUAL RUNOFF (AC-FT)	28	185	.00 Jul 20 1963
10 PERCENT EXCEEDS	.13	.16	285600
50 PERCENT EXCEEDS	.00	.00	1340
90 PERCENT EXCEEDS	.00	.00	26
			.00

RIO GRANDE BASIN

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM

(Surveillance network station)

LOCATION.--Lat 34°15'23", Long 106°53'18", Socorro County, Hydrologic Unit 13020203, in Sevilleta Grant, on right bank 0.2 mi downstream from San Acacia diversion dam, 0.3 mi east of San Acacia, 2 mi downstream from Rio Salado, and at mile 1.472.6.

DRAINAGE AREA.--26,770 mi², approximately, including 2,940 mi² in closed basin in San Luis Valley, Co.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1936 to September 1958 (prior to construction of conveyance channel), October 1958 to September 1964 (flow in conveyance channel included), October 1964 to current year. Prior to October 1964 published as 08355000 "Rio Grande at San Acacia" and records are not equivalent.

REVISED RECORDS.--WSP 1242: 1951. WSP 1732: 1958(M). WRD 1969: 1967.

GAGE.--Water-stage recorder. Datum of gage is 4,654.50 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 19, 1953, at several sites 0.1 mi upstream at different datums. Mar. 19, 1953, to Aug. 19, 1965, at site 0.4 mi downstream at datum 3.60 ft higher. Aug. 19, 1965, to Aug. 15, 1967, at same site at datum 1.89 ft higher. Datum on Aug. 21, 1967, was lowered 2.00 ft. Floodway is bypassed by Socorro main canal north and since Oct. 1958 by conveyance channel.

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor. Floodway is 1 of 3 channels (stations 08354500, 08354800) carrying flow in valley cross section. For combined monthly flow in acre-ft of floodway, conveyance channel, and Socorro main canal north, see tabulation below. Normal plan is for floodway to carry flow when combined capacities of conveyance channel (about 2,000 ft³/s) and Socorro main canal north (about 200 ft³/s) is exceeded, during periods of silt sluicing, and when river silt load is excessive. Diversions upstream from station for irrigation of about 760,000 acres; this includes Socorro main canal north, which bypasses station and irrigates about 8,000 acres. U.S. Bureau of Reclamation satellite telemeter at station. No flow at times.

AVERAGE DISCHARGE.--22 years (water years 1937-58), 1,192 ft³/s, 863,000 acre-ft/yr, prior to construction of conveyance channel; does not include Socorro main canal north. 15 years (water years 1959-73), 911 ft³/s, 660,000 acre-ft/yr, combined flow of floodway, conveyance channel and Socorro main canal north, prior to closure of Cochiti Dam. 18 years (water years 1974-94), 1,488 ft³/s, 1,078,000 acre-ft/yr, combined flow of floodway, conveyance channel, and Socorro Main Canal North, since closure of Cochiti Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,400 ft³/s, Aug. 5, 1936, gage height, 10.75 ft, site and datum then in use; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 6,820 ft³/s, May 13; minimum daily, 32 ft³/s, July 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	225	787	1510	1180	834	728	897	2960	3500	2530	623	e400
2	179	1050	1530	1210	835	842	1110	3090	4040	1750	622	e200
3	140	1200	1670	1240	908	748	1060	2720	4790	1300	552	e1400
4	127	1230	1580	1260	925	894	1640	2710	4880	e500	591	e1280
5	136	1410	1550	1320	880	1030	1800	2630	4810	e362	416	e700
6	150	1460	1510	1290	895	929	1640	2620	3200	301	339	e800
7	e155	1560	1430	1160	985	1210	1950	2710	3090	210	271	e810
8	e170	1660	1570	1110	1150	1200	2270	3600	3320	198	244	e500
9	e220	1710	1680	1110	1060	1520	2130	4020	3980	e140	296	e650
10	e270	1730	1710	1130	967	1460	2100	4070	4270	e120	257	e600
11	e280	1730	1690	1090	1010	1650	2320	4380	4490	e100	390	e400
12	e310	1740	1650	1070	1020	1700	2350	5280	4140	e80	201	e350
13	e340	1740	1680	1110	937	1460	2320	6820	3940	75	119	e300
14	e350	1720	1680	1100	954	1430	2280	4940	3970	40	120	e1100
15	e350	1840	1750	1010	940	1130	2250	5450	4090	49	e703	1500
16	e340	1840	1640	1020	911	676	2380	5430	4160	47	e2100	1480
17	e290	1770	1640	1050	934	431	2660	5440	4310	41	e2200	1000
18	e270	1810	1670	1070	960	506	2660	5130	4310	32	e3100	576
19	464	1720	1580	1070	1000	703	2610	5120	4350	103	e1100	473
20	454	1610	1600	1070	1050	893	3250	5150	4460	124	e725	454
21	444	1550	1590	1060	1070	1170	3710	5010	4410	148	e250	329
22	401	1620	1560	1010	1040	1300	3340	4740	4490	217	e700	207
23	303	1640	1540	1020	1100	1530	3680	5290	4520	318	e1200	176
24	270	1640	1590	1070	1090	1990	3570	5460	4360	e230	e450	124
25	281	1650	1620	1090	979	1990	3550	5570	4050	e240	e440	123
26	252	1700	1520	1090	979	1790	4630	6010	4170	e229	e180	83
27	269	1740	1360	1050	978	1830	4310	5970	4210	271	e110	106
28	217	1800	1420	1040	813	1840	4240	5380	4100	e485	e200	82
29	211	1740	1280	1020	---	1680	3980	4830	4080	e504	e220	43
30	177	1640	1230	1030	---	1100	3080	3700	3900	e400	e140	76
31	232	---	1220	917	---	876	---	3550	---	e535	e540	---
TOTAL	8277	48037	48250	34067	27204	38236	79767	139780	124390	11679	19399	16322
MEAN	267	1601	1556	1099	972	1233	2659	4509	4146	377	626	544
MAX	464	1840	1750	1320	1150	1990	4630	6820	4880	2530	3100	1500
MIN	127	787	1220	917	813	431	897	2620	3090	32	110	43
AC-FT	16420	95280	95700	67570	53960	75840	158200	277300	246700	23170	38480	32370
(†)	32250	95470	95700	67570	53960	88210	172700	292800	264400	40850	53130	43980
CAL YR 1993	TOTAL 679137	MEAN 1861	MAX 6350	MIN 65	AC-FT 1347000	(†) MEAN 2010	AC-FT 1455000					
WTR YR 1994	TOTAL 595408	MEAN 1631	MAX 6820	MIN 32	AC-FT 1181000	(†) MEAN 1797	AC-FT 1301000					

e Estimated

(†) COMBINED FLOW, IN ACRE-FEET, AND MEAN, IN CUBIC FEET PER SECOND, OF FLOODWAY, CONVEYANCE CHANNEL, AND SOCORRO MAIN CANAL NORTH.

WATER-QUALITY RECORDS

[illegible]

SPECIFIC CONDUCTANCE: July to December 1937, March 1939 to September 1956, October 1964 to current year.

WATER TEMPERATURE: October 1947 to August 1956, January 1959 to current year.

SUSPENDED-SEDIMENT DISCHARGE: July 1946 to June 1956, January 1959 to current year.

REMARKS.--Sediment total-loads (suspended sediment plus bed material discharge), in tons per day, were determined from the regression equation for the period of record.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 3,700 microsiemens, July 14, 1940; minimum daily, 236 microsiemens, May 17, 1942.

WATER TEMPERATURE: (1947-56, 1959-62, 1964-94): Maximum daily, 34.5 °C, July 13, 1971; minimum daily, 0.0 °C on many days during winter months of most years.

SEDIMENT CONCENTRATION: Maximum daily mean, 223,000 mg/L, Aug. 11, 1946; minimum daily mean, no flow on many days of most years.

SEDIMENT LOAD: Maximum daily, 1,760,000 tons, Aug. 12, 1955; minimum daily, 0 ton on many days of most years.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,370 microsiemens, Aug. 22, 23; minimum daily, 301 microsiemens, May 23, 24.

WATER TEMPERATURE: Maximum daily, 29.0 °C, July 23, 30, 31; minimum daily, 3.0 °C, Dec. 23.

SEDIMENT CONCENTRATION: Maximum daily mean, 45,800 mg/L, Sept. 2; minimum daily mean, 41 mg/L, July 12.

SEDIMENT LOAD: Maximum daily, 144,000 tons, Sept. 3; minimum daily, 4.7 ton on July 18.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	
OCT 1993												
21...	1115	472	534	8.4	14.5	12.0	653	9.2	100	17	250	370
FEB 1994												
23...	1530	1070	638	8.4	8.0	9.0	645	10.2	105	12	K12	180
JUN												
22...	1400	4460	314	8.2	32.5	25.0	645	7.0	101	13	580	130
JUL												
27...	1400	225	518	8.6	32.5	27.5	646	6.5	98	29	150	150

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)
OCT 1993												
21...	170	21	54	9.1	44	1	4.6	176	4	150	--	140
FEB 1994												
23...	160	22	50	8.6	42	1	4.1	159	5	136	--	140
JUN												
22...	110	16	33	6.0	19	0.8	3.0	111	0	91	--	95
JUL												
27...	170	38	54	9.3	46	2	5.0	153	6	--	--	157

DATE	SULFATE DIS- SOLVED (MG/L AS SO ₄) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO ₂) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 1993												
21...	84	22	0.60	25	339	0.920	0.020	0.940	<0.010	0.50	0.380	0.270
FEB 1994												
23...	73	23	0.50	27	317	1.08	0.020	1.10	0.020	0.30	0.290	0.230
JUN												
22...	50	7.6	0.30	17	192	--	<0.010	0.250	0.020	0.60	0.410	0.080
JUL												
27...	90	24	0.50	25	340	0.860	0.020	0.880	0.030	0.70	0.430	0.200

RIO GRANDE BASIN

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
OCT 1993 21...	4.4	5	6	100	<1	<1.0	<1	<1	5	1	4
FEB 1994 23...	4.3	--	--	100	--	--	--	--	--	--	8
JUN 22...	6.3	--	--	40	--	--	--	--	--	--	16
JUL 27...	6.7	7	3	110	<1	<1.0	6	<1	7	1	<3

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	NITRO- GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO- GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)
OCT 1993 21...	3	<1	<0.10	<0.1	<1	<1	20	<3	7.0	0.9	<20
FEB 1994 23...	--	--	--	--	--	--	--	--	--	--	--
JUN 22...	--	--	--	--	--	--	--	--	--	--	--
JUL 27...	6	<1	<0.10	<0.1	<1	<1	20	<3	--	--	--

DATE	PHOS- PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD) (01028)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB) (01052)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN) (01093)
OCT 1993 21...	440	1	<1	5	40	3	4400	<10	140	<0.01	10
FEB 1994 23...	--	--	--	--	--	--	--	--	--	--	--
JUN 22...	--	--	--	--	--	--	--	--	--	--	--
JUL 27...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	CHLOR- PYRIFOS TOTAL RECOVER (UG/L) (38932)	DI- SYSTON TOTAL (UG/L) (39011)	PHORATE TOTAL (UG/L) (39023)	PER- THANE TOTAL (UG/L) (39034)	DEF TOTAL (UG/L) (39040)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L) (39250)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)
FEB 23...	1530	--	--	--	--	--	--	--	--	--	--	--
JUL 27...	1400	<0.01	<0.01	<0.01	<0.1	<0.01	<0.10	<0.010	<0.010	<0.1	<0.010	<0.010

RIO GRANDE BASIN

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA. WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	DDT, TOTAL (UG/L) (39370)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDO- SULFAN, TOTAL (UG/L) (39388)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	TOX- APHENE, TOTAL (UG/L) (39400)	HEPTA- CHLOR, TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	METH- OXY- CHLOR, TOTAL (UG/L) (39480)	PCB, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)
FEB 23...	--	--	--	--	--	--	--	--	--	--	--
JUL 27...	<0.010	<0.010	<0.010	<0.010	<0.01	<1	<0.010	<0.010	<0.01	<0.1	<0.01

DATE	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	MIREX, TOTAL (UG/L) (39755)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRI- THION (UG/L) (39786)	2,4-DP TOTAL (UG/L) (82183)	PONOFOS (DY- FONATE) WATER WHOLE TOT REC (UG/L) (82614)	SAM- PLING METHOD, CODES (82398)
FEB 23...	--	--	--	<0.01	<0.01	--	<0.01	--	<0.01	--	10
JUL 27...	<0.01	0.01	<0.01	--	--	<0.01	--	<0.01	--	<0.01	10

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	STREAM WIDTH (FT) (00004)	STREAM DEPTH, MEAN (FT) (00064)	STREAM VELOC- ITY, MEAN (F/S) (00055)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, DISCH. + SUSP. + BED MA- TERIAL (T/DAY) (80156)
OCT 1993										
06...	1345	153	40.0	1.8	2.08	--	19.0	166	69	115
NOV 19...	1630	1680	155	2.2	5.05	--	10.0	2820	12800	17000
DEC 15...	1100	1770	165	2.1	5.02	--	4.0	2720	13000	17200
JAN 1994										
10...	1315	1110	162	2.4	2.88	--	4.0	2010	6020	8240
FEB 23...	1500	1070	255	2.1	1.97	--	9.0	221	638	960
23...	1530	1070	--	--	--	638	9.0	233	673	--
MAR 22...	1220	1350	160	3.1	2.71	--	13.0	123	448	684
APR 19...	1530	2670	165	5.3	3.08	--	19.5	318	2290	3260
MAY 17...	1130	5480	170	6.3	5.12	--	16.0	1300	19200	25000
JUN 22...	1330	4460	167	5.3	5.07	--	25.0	867	10400	13900
22...	1400	4460	--	--	--	314	25.0	253	3050	--
JUL 20...	1135	136	73.0	1.2	1.62	--	24.0	100	27	64
27...	1400	225	--	--	--	518	27.5	426	259	--
AUG 17...	1615	2210	160	2.3	6.01	--	26.5	18700	112000	135000
SEP 22...	1045	A195	75.0	1.4	1.84	--	18.5	366	194	306

RIO GRANDE BASIN

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
OCT 1993										
06...	--	--	--	--	--	30	41	90	100	--
NOV										
19...	--	--	--	--	--	21	42	84	100	--
DEC										
15...	--	--	--	--	--	52	59	82	100	--
JAN 1994										
10...	--	--	--	--	--	6	10	41	84	100
FEB										
23...	48	--	--	--	--	55	70	94	100	--
23...	--	--	--	--	--	--	--	--	--	--
MAR										
22...	--	--	--	--	--	65	67	91	100	--
APR										
19...	--	--	--	--	--	85	89	97	100	--
MAY										
17...	--	--	--	--	--	46	73	98	100	--
JUN										
22...	68	--	--	--	--	23	47	95	100	--
22...	--	--	--	--	--	--	--	--	--	--
JUL										
20...	--	--	--	--	--	48	59	97	100	--
27...	90	--	--	--	--	--	--	--	--	--
AUG										
17...	--	51	62	70	76	82	90	98	100	--
SEP										
22...	--	--	--	--	--	73	80	91	100	--

DATE	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM (80165)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM (80166)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM (80167)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM (80173)
OCT 1993										
06...	0	1	26	78	97	99	100	--	--	--
NOV										
19...	1	6	64	97	100	--	--	--	--	--
DEC										
15...	0	5	51	94	99	100	--	--	--	--
JAN 1994										
10...	0	1	17	70	89	92	94	95	100	--
FEB										
23...	0	1	17	75	95	98	99	100	--	--
23...	--	--	--	--	--	--	--	--	--	--
MAR										
22...	--	0	15	55	67	72	78	86	92	100
APR										
19...	0	1	20	66	73	75	78	81	100	--
MAY										
17...	0	2	38	86	100	--	--	--	--	--
JUN										
22...	0	2	48	83	88	91	93	96	100	--
22...	--	--	--	--	--	--	--	--	--	--
JUL										
20...	1	12	61	87	95	97	97	98	100	--
27...	--	--	--	--	--	--	--	--	--	--
AUG										
17...	0	3	40	88	94	96	97	100	--	--
SEP										
22...	0	1	9	73	87	95	98	100	--	--

RIO GRANDE BASIN

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM -- Continued

WATER-QUALITY RECORDS

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	589	550	542	523	539	498	496	344	329	481	719	675
2	587	549	528	598	539	458	478	349	308	481	710	1420
3	614	554	528	599	540	458	446	349	310	482	581	1430
4	627	525	528	562	540	458	447	368	322	481	569	666
5	608	527	531	582	539	459	413	367	325	516	574	663
6	598	540	537	583	539	---	410	378	325	577	590	674
7	598	538	562	583	579	479	461	380	310	516	592	653
8	607	532	567	553	579	478	461	355	338	572	757	554
9	555	534	568	549	615	518	461	355	345	562	763	---
10	558	530	467	550	616	434	470	---	316	571	511	741
11	537	548	465	558	595	433	469	394	312	628	511	741
12	537	550	494	558	595	447	409	537	---	623	608	755
13	544	552	513	557	597	448	413	425	319	630	607	729
14	536	556	516	556	598	456	412	370	315	700	---	740
15	526	553	510	582	595	457	414	370	314	701	971	740
16	525	557	509	581	594	525	418	359	315	700	998	741
17	541	558	485	572	569	525	418	359	313	705	970	741
18	539	554	474	574	561	---	420	382	313	699	972	653
19	505	550	509	574	538	456	372	364	317	576	801	590
20	507	550	509	577	571	454	373	367	318	546	806	588
21	541	555	514	569	563	454	381	305	318	592	805	581
22	542	554	514	569	543	465	382	305	---	528	1370	648
23	541	554	513	---	543	464	382	301	330	528	1370	650
24	552	554	508	582	478	500	372	301	324	528	---	617
25	552	---	524	---	522	501	344	312	323	---	664	665
26	---	555	525	580	523	---	344	312	330	---	894	664
27	589	553	565	583	530	508	338	362	330	502	894	641
28	592	554	565	---	531	508	339	362	331	503	889	643
29	591	549	573	583	---	511	343	336	480	500	664	652
30	721	541	572	582	---	507	343	335	331	503	690	652
31	729	---	524	582	---	509	---	327	---	501	676	---
MEAN	---	---	524	---	560	---	408	---	---	---	---	---
MAX	---	---	573	---	616	---	496	---	---	---	---	---
MIN	---	---	465	---	478	---	338	---	---	---	---	---

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.0	9.0	9.0	9.0	4.0	15.0	18.0	17.0	22.0	26.0	26.0	25.0
2	21.5	10.0	8.5	8.0	3.5	15.0	18.0	18.0	22.0	26.0	24.0	20.0
3	20.0	11.0	8.0	7.5	4.0	15.0	17.0	19.0	23.0	24.0	26.0	22.0
4	20.5	11.5	8.0	8.5	5.0	15.0	14.0	20.0	21.5	23.0	28.0	23.0
5	21.5	13.5	8.0	9.0	4.5	14.5	16.0	21.0	21.0	25.0	28.0	25.0
6	20.0	9.0	8.5	9.0	4.0	---	16.0	22.0	22.0	24.0	27.0	24.0
7	19.0	10.0	8.0	10.0	7.0	15.0	16.0	22.0	23.0	---	27.0	26.0
8	19.0	8.0	7.5	10.0	10.0	9.0	17.0	22.0	24.0	23.0	27.0	24.0
9	20.0	9.0	8.0	10.5	10.0	11.5	14.8	18.0	24.0	28.0	27.0	---
10	20.0	11.0	8.0	10.0	10.0	11.0	18.0	---	27.0	24.0	27.0	25.0
11	20.0	12.0	9.0	10.0	11.0	12.0	18.0	18.0	25.0	26.0	26.0	25.0
12	20.0	10.0	8.0	9.0	12.0	12.0	17.5	18.5	---	27.0	27.0	24.0
13	19.5	10.0	7.0	9.5	11.0	12.0	18.0	17.0	25.0	28.0	28.0	23.0
14	19.0	10.0	7.0	8.0	9.0	13.0	18.0	19.0	25.0	26.0	---	25.0
15	18.0	10.0	7.0	8.0	10.0	16.0	17.5	20.0	26.0	23.0	25.0	25.0
16	17.0	10.5	7.0	8.0	11.0	17.0	18.0	20.0	27.0	27.0	26.0	24.0
17	17.0	10.0	6.0	8.0	11.0	18.0	17.0	20.5	27.0	25.0	26.0	18.0
18	16.5	10.0	6.0	8.0	10.0	---	16.5	20.0	26.0	25.0	23.0	24.0
19	16.0	9.5	5.5	8.0	11.5	18.0	17.0	20.0	23.0	26.0	24.0	24.0
20	16.0	9.5	5.0	9.0	11.0	19.0	17.0	22.5	22.0	27.0	24.0	24.0
21	16.0	10.5	4.0	8.0	12.0	17.0	18.0	21.0	24.0	27.0	25.5	23.0
22	15.5	11.0	4.0	8.0	11.0	17.0	17.0	19.0	---	27.0	24.0	22.0
23	15.0	13.0	3.0	---	11.0	17.0	18.0	20.0	22.0	29.0	22.5	22.0
24	15.0	10.0	4.0	9.0	10.0	16.0	18.5	22.0	23.0	27.0	---	21.5
25	14.0	---	5.0	---	10.0	15.0	18.0	19.0	24.0	---	26.0	22.0
26	---	7.5	5.5	8.0	11.0	---	17.0	17.5	24.0	---	28.0	22.5
27	13.0	8.0	6.0	6.0	11.0	14.0	14.0	20.0	24.0	28.0	26.0	22.0
28	12.0	8.0	7.0	---	13.0	14.0	13.0	22.0	25.0	27.0	26.0	23.0
29	10.0	9.0	7.0	4.5	---	14.0	14.0	23.0	27.0	28.0	26.5	22.0
30	18.0	9.5	7.0	4.0	---	15.0	17.0	24.0	27.0	29.0	26.0	21.0
31	11.0	---	7.5	4.0	---	16.0	---	22.0	---	29.0	24.0	---
MEAN	---	---	6.7	---	9.2	---	16.8	---	---	---	---	---
MAX	---	---	9.0	---	13.0	---	18.5	---	---	---	---	---
MIN	---	---	3.0	---	3.5	---	13.0	---	---	---	---	---

WATER-QUALITY RECORDS

DAY	MEAN CONCENTRATION (MG/L)		LOADS (T/DAY)		MEAN CONCENTRATION (MG/L)		LOADS (T/DAY)		MEAN CONCENTRATION (MG/L)		LOADS (T/DAY)		MEAN CONCENTRATION (MG/L)		LOADS (T/DAY)	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH										
1	100	61	3130	6660	605	2470	317	1010	276	621	184	362				
2	95	46	3320	9410	575	2380	288	941	862	1940	109	248				
3	88	33	3280	10600	563	2540	319	1070	680	1670	68	137				
4	90	31	4500	14900	466	1990	490	1670	322	804	79	191				
5	102	37	4690	17900	630	2640	238	848	158	375	71	197				
6	85	34	2720	10700	752	3070	245	853	414	1000	69	173				
7	76	32	2470	10400	1380	5320	203	636	366	973	64	209				
8	66	30	1350	6040	1040	4400	284	851	399	1240	65	211				
9	75	45	1310	6040	888	4030	333	998	308	881	110	451				
10	94	69	2130	9960	368	1700	303	924	268	700	216	851				
11	116	88	2660	12400	180	821	265	780	384	1050	210	936				
12	114	95	1650	7750	403	1800	397	1150	231	636	135	620				
13	124	114	1280	6010	472	2140	376	1130	203	514	105	414				
14	125	118	1250	5800	469	2130	287	852	219	564	110	425				
15	120	113	1350	6690	726	3430	229	624	189	480	111	339				
16	111	102	1460	7250	683	3020	285	785	188	462	90	164				
17	125	98	935	4470	754	3340	219	621	214	540	98	114				
18	143	104	744	3640	270	1220	153	442	148	384	124	169				
19	142	178	841	3910	623	2660	171	494	165	445	113	214				
20	141	173	963	4190	734	3170	230	664	192	544	103	248				
21	131	157	1110	4650	824	3540	267	764	132	381	105	332				
22	116	126	1130	4930	890	3750	233	635	169	475	103	362				
23	117	96	1090	4840	782	3250	231	636	203	603	105	434				
24	113	82	1210	5340	784	3370	319	922	392	1150	150	806				
25	108	82	1250	5580	712	3110	413	1220	237	626	174	935				
26	107	73	1200	5530	714	2930	408	1200	206	545	144	696				
27	105	76	1520	7140	580	2130	273	774	220	581	115	568				
28	104	61	1620	7850	564	2160	289	812	200	439	115	571				
29	106	60	786	3690	745	2570	392	1080	---	---	115	522				
30	1350	644	576	2550	708	2350	409	1140	---	---	79	235				
31	2320	1450	---	---	392	1290	388	961	---	---	78	184				
TOTAL	---	4508	---	216820	---	84721	---	27487	---	20623	---	12318				

DAY	MEAN CONCEN- TRATION	LOADS	MEAN CONCEN- TRATION	LOADS	MEAN CONCEN- TRATION	LOADS	MEAN CONCEN- TRATION	LOADS	MEAN CONCEN- TRATION	LOADS	MEAN CONCEN- TRATION	LOADS
	(MG/L)	(T/DAY)	(MG/L)	(T/DAY)	(MG/L)	(T/DAY)	(MG/L)	(T/DAY)	(MG/L)	(T/DAY)	(MG/L)	(T/DAY)
	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER						
1	77	186	352	2810	599	5660	173	1180	8120	13700	28100	30400
2	70	210	303	2530	392	4280	159	751	11700	19700	45800	24700
3	112	321	280	2060	489	6320	162	569	6560	9780	38000	144000
4	105	465	236	1730	711	9370	159	215	1960	3130	24200	83500
5	167	812	191	1360	716	9300	107	105	916	1030	8790	16600
6	221	979	202	1430	556	4800	93	76	658	602	10200	22000
7	225	1180	225	1650	418	3490	91	52	276	202	20300	44400
8	233	1430	350	3400	824	7390	484	259	274	181	7510	10100
9	334	1920	427	4630	615	6610	647	245	10200	8140	10800	19000
10	195	1110	382	4200	334	3850	243	79	2520	1750	11000	17900
11	157	983	632	7470	315	3820	77	21	4230	4460	10700	11500
12	217	1380	3680	52400	315	3520	41	8.9	364	198	11200	10600
13	209	1310	2850	52600	319	3390	47	9.5	175	56	11600	9430
14	202	1240	730	9740	349	3740	60	6.5	398	129	11800	35100
15	228	1390	634	9330	313	3460	64	8.5	21500	40800	10900	44300
16	249	1600	678	9940	289	3250	68	8.6	21800	124000	10700	42800
17	291	2090	687	10100	263	3060	60	6.6	23400	139000	9930	26800
18	329	2360	1100	15200	254	2960	54	4.7	22000	184000	289	449
19	382	2690	1070	14800	322	3780	64	18	7160	21300	341	435
20	403	3540	969	13500	348	4190	61	20	6410	12500	302	370
21	415	4160	925	12500	266	3170	64	26	4260	2870	308	274
22	438	3950	888	11400	250	3030	221	129	15900	30100	227	127
23	441	4380	815	11600	267	3260	401	344	9520	30800	772	367
24	416	4010	759	11200	264	3110	396	246	6360	7730	248	83
25	522	5000	907	13600	268	2930	399	259	4730	5610	99	33
26	674	8430	1490	24200	261	2940	396	245	11900	5780	94	21
27	547	6370	2170	35000	265	3010	409	299	18000	5340	74	21
28	492	5630	1470	21400	242	2680	1420	1860	17200	9280	70	15
29	340	3650	1190	15500	133	1470	1300	1770	6790	4030	84	9.8
30	315	2620	1130	11300	256	2700	915	988	23600	8940	121	25
31	---	---	793	7600	---	---	705	1020	26200	38300	---	---
TOTAL	---	75396	---	396180	---	124540	---	10829.3	---	733438	---	595359.8
TOTAL LOAD FOR YEAR: 2302220.1 TONS.												

RIO GRANDE BASIN

08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, NM
(National stream-quality accounting network, surveillance network, and radiochemical network station)

LOCATION.--Lat 33°41'15", long 106°59'40", Socorro County, Hydrologic Unit 13020203, in Pedro Armendaris Grant No. 57, on right bank 0.7 mi northwest of Alachua, Rood and Santa Fe Railway Co. bridge over floodway channel, 1.0 mi southwest of former site of San Marcial. 2.5 mi downstream from railroad bridge near Tropic station and 5.1 mi upstream from mouth of Rio Grande.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1958 to September 1959, October 1964 to current year. Prior to October 1964 monthly discharge only published with record for Rio Grande at San Marcial (station 08358500).

GAGE.--Water-stage recorder. Datum of gage is 4,454.00 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). Prior to Apr. 29, 1958, at datum 4.19 ft higher.

REMARKS.--Water-discharge records good. Original design and plan were for conveyance channel to carry all flows up to about 2,000 ft³/s. Conveyance channel is 1 of 2 channels (station 08358400) carrying flow in valley cross section. For combined monthly flow in acre-ft of this channel and floodway, see tabulation below daily table for station 08358400. U.S. Bureau of Reclamation satellite telemeter at station. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	335	426	280	276	258	254	413	462	409	421	360	304
2	357	352	282	277	256	293	401	475	419	361	375	343
3	357	278	276	277	255	340	403	441	377	408	366	378
4	375	281	275	282	253	365	432	429	386	463	333	406
5	374	277	287	280	250	360	368	425	438	394	332	349
6	381	274	285	278	249	368	386	426	481	375	296	292
7	375	276	286	275	244	342	411	446	404	343	326	287
8	396	278	298	279	246	371	389	455	434	335	330	304
9	403	277	292	283	248	406	383	506	440	299	316	294
10	398	272	291	280	247	421	372	496	421	355	326	321
11	413	267	296	272	248	421	398	491	454	378	292	331
12	383	265	291	251	246	397	398	452	465	330	250	318
13	385	267	280	242	245	408	372	489	471	320	259	313
14	379	268	272	242	245	388	371	522	405	319	287	341
15	412	271	272	245	252	396	384	504	429	286	379	362
16	424	277	276	252	261	391	386	534	432	263	373	312
17	424	266	280	254	257	379	420	515	427	289	277	286
18	441	266	275	256	255	405	440	491	460	306	266	293
19	413	257	275	261	256	416	383	487	453	293	266	306
20	416	255	270	262	255	420	375	479	501	253	287	305
21	433	261	269	252	250	442	412	471	454	230	274	297
22	433	268	269	244	251	428	426	474	439	265	298	272
23	429	268	270	245	251	396	451	490	474	280	336	278
24	426	266	266	247	252	374	470	458	473	302	323	268
25	401	267	267	247	254	379	498	474	449	357	298	243
26	341	265	269	256	257	411	468	500	459	371	335	249
27	333	266	270	259	254	407	469	529	488	342	333	186
28	348	273	269	255	256	432	458	492	443	374	321	230
29	363	276	268	255	---	442	454	489	422	386	364	237
30	365	277	269	254	---	428	453	483	398	401	305	250
31	370	---	274	254	---	405	---	446	---	388	278	---
TOTAL	12083	8337	8599	8092	7051	12085	12444	14831	13205	10487	9761	8955
MEAN	390	278	277	261	252	390	415	478	440	338	315	298
MAX	441	426	298	283	261	442	498	534	501	463	379	406
MIN	333	255	266	242	244	254	368	425	377	230	250	186
AC-FT	23970	16540	17060	16050	13990	23970	24680	29420	26190	20800	19360	17760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1994, BY WATER YEAR (WY)

	MEAN	252	550	541	447	439	438	475	565	489	336	281	248
MAX	759	1729	1880	1558	1112	1394	1679	1782	1652	1690	986	730	
(WY)	1985	1970	1966	1974	1985	1966	1966	1969	1973	1973	1973	1972	
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
(WY)	1969	1977	1975	1975	1975	1977	1976	1976	1976	1976	1976	1974	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1965 - 1994

ANNUAL TOTAL	121891	125930		
ANNUAL MEAN	334	345	421	
HIGHEST ANNUAL MEAN			1137	1973
LOWEST ANNUAL MEAN			.000	1977
HIGHEST DAILY MEAN	541	534	2200	May 14 1966
LOWEST DAILY MEAN	226	186	.00	Sep 7 1968
ANNUAL SEVEN-DAY MINIMUM	238	238	.00	Sep 7 1968
ANNUAL RUNOFF (AC-FT)	241800	249800	305200	
10 PERCENT EXCEEDS	437	458	1200	
50 PERCENT EXCEEDS	327	335	271	
90 PERCENT EXCEEDS	248	254	.00	

RIO GRANDE BASIN

08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1954 to September 1993 (discontinued).

WATER TEMPERATURE: March 1954 to September 1993 (discontinued).

SUSPENDED-SEDIMENT DISCHARGE: March 1954 to September (discontinued).

REMARKS.--Water samples for chemical and biological analyses collected at this station when all flow is diverted from the station 08358400 Rio Grande Floodway at San Marcial, NM. Sediment total-load (suspended sediment plus bed material discharge), in tons per day, were determined from the regression equation developed for the period of record. Once-daily water temperature readings were made by the field observer, and once-daily specific conductance values were determined in the laboratory from daily suspended sediment samples collected by the field observer.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 2,860 microsiemens, Oct. 25, 1956; minimum daily, 298 microsiemens, May 25, 1984.

WATER TEMPERATURE: Maximum daily, 38.0 °C, June 26, 1989; minimum daily, 0.0 °C on many days during December and January of most years.

SEDIMENT CONCENTRATION: Maximum daily mean, 144,000 mg/L, Sept. 19, 1971; minimum daily mean, no flow on many days during most years.

SEDIMENT LOAD: Maximum daily, 638,000 tons, Aug. 28, 1972; minimum daily, 0 ton on many days during most years.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,000 microsiemens, Nov. 21; minimum daily, 606 microsiemens, Aug. 15.

WATER TEMPERATURE: Maximum daily, 29.0 °C, Sept. 1; minimum daily, 2.0 °C, Feb. 1, 5, 6, 9, 10.

SEDIMENT CONCENTRATION: Maximum daily mean, 3,590 mg/L, Sept. 1; minimum daily mean, 37 mg/L, Jan. 28.

SEDIMENT LOAD: Maximum daily, 2,950 tons, Sept. 1; minimum daily, 25 tons, Jan. 28.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CaCO3) (00900)
OCT 1993									
14...	0945	368	824	8.1	--	17.0	649	7.9	210
NOV									
10...	1015	275	926	8.2	15.0	11.5	655	8.7	240
DEC									
13...	1045	280	932	8.2	12.0	9.0	651	9.0	220
JAN 1994									
11...	1015	276	950	8.0	6.0	7.5	657	10.6	230
FEB									
08...	0915	247	952	8.0	11.0	10.5	646	8.3	220
MAR									
24...	0830	372	890	8.0	13.0	12.5	649	8.0	210
APR									
20...	1100	366	991	8.2	27.5	16.0	650	8.0	230
MAY									
17...	1330	518	844	8.1	29.0	16.5	648	7.8	190
JUN									
06...	1200	500	854	8.1	30.5	18.5	648	7.3	200
JUL									
06...	1100	368	812	8.3	32.0	20.5	649	7.5	190
AUG									
17...	1045	282	886	7.9	35.0	21.0	652	7.0	200
SEP									
21...	1015	298	877	8.2	19.5	18.0	651	7.4	210

RIO GRANDE BASIN

08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L) AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LITY LAB (MG/L) AS CACO3) (90410)
OCT 1993										
14...	19	63	12	90	3	5.0	229	0	187	185
NOV										
10...	46	73	14	110	3	5.7	236	0	194	198
DEC										
13...	25	67	14	120	3	6.5	244	0	200	200
JAN 1994										
11...	36	69	13	120	3	6.2	232	0	190	199
FEB										
08...	27	67	13	110	3	5.9	236	0	194	--
MAR										
24...	25	63	12	100	3	4.7	221	0	181	181
APR										
20...	33	69	13	110	3	5.4	235	0	192	192
MAY										
17...	26	59	11	90	3	4.7	203	0	166	169
JUN										
06...	29	60	12	98	3	5.1	208	0	170	181
JUL										
06...	14	57	11	90	3	4.9	212	0	174	178
AUG										
17...	30	63	11	90	3	6.0	210	0	172	174
SEP										
21...	29	64	12	92	3	5.5	220	0	180	185

DATE	SULFATE DIS- SOLVED (MG/L) AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F) (00950)	SILICA, DIS- SOLVED (MG/L) AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L) AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N) (00631)
OCT 1993									
14...	150	59	0.50	24	512	517	--	<0.010	0.190
NOV									
10...	160	72	0.50	26	536	578	0.160	0.010	0.170
DEC									
13...	170	86	0.50	24	609	609	0.140	0.020	0.160
JAN 1994									
11...	150	84	0.50	23	566	580	0.080	0.010	0.090
FEB									
08...	160	86	0.60	23	598	582	0.100	0.020	0.120
MAR									
24...	150	77	0.50	24	541	541	0.220	0.020	0.240
APR									
20...	160	87	0.50	24	598	585	0.160	0.010	0.170
MAY									
17...	130	66	0.50	22	497	464	0.220	0.020	0.240
JUN									
06...	140	68	0.50	23	527	510	--	<0.010	0.140
JUL									
06...	130	59	0.50	21	466	478	--	<0.010	<0.050
AUG									
17...	150	69	0.40	24	547	518	--	<0.010	0.320
SEP									
21...	160	68	0.60	24	550	536	--	<0.010	0.340

RIO GRANDE BASIN

08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
OCT 1993										
14...		0.030	--	<0.20	<0.20	0.100	0.070	0.080	<3	3
NOV										
10...		0.040	--	<0.20	<0.20	0.100	0.080	0.060	6	18
DEC										
13...		0.040	--	<0.20	<0.20	0.080	0.040	0.050	5	25
JAN 1994										
11...		0.030	--	<0.20	<0.20	0.060	0.040	0.040	<3	38
FEB										
08...		0.020	--	0.20	<0.20	0.090	0.040	0.040	11	18
MAR										
24...		0.020	0.18	0.30	0.20	0.200	0.080	0.080	6	6
APR										
20...		0.020	--	0.30	<0.20	0.110	0.050	0.060	<3	7
MAY										
17...		0.040	--	0.70	<0.20	0.250	0.050	0.070	3	8
JUN										
06...		0.020	--	0.40	<0.20	0.170	0.050	0.060	5	5
JUL										
06...		<0.010	--	0.30	<0.20	0.110	0.060	0.050	5	3
AUG										
17...		<0.010	--	0.60	<0.20	0.380	0.100	0.090	<3	2
SEP										
21...		0.030	--	0.50	<0.20	0.290	0.090	0.090	<3	2

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (000061)	STREAM WIDTH (FT) (000004)	STREAM DEPTH, MEAN (FT) (000064)	STREAM VELOC- ITY, MEAN (F/S) (000055)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (000095)	TEMPER- ATURE WATER (DEG C) (000010)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, DISCH. + BED MA- TERIAL (T/DAY) (80156)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)
OCT 1993												
14...	0945	368	--	--	--	824	17.0	141	140	--	85	--
18...	1430	466	56.0	3.5	2.40	--	16.0	331	416	747	--	43
NOV												
10...	1015	275	--	--	--	926	11.5	89	66	--	92	--
19...	1120	256	53.0	2.4	2.03	--	12.0	283	196	380	--	14
DEC												
13...	1045	280	--	--	--	932	9.0	50	38	--	63	--
14...	1000	270	53.0	2.4	2.14	--	9.0	66	48	105	--	45
JAN 1994												
11...	1015	276	--	--	--	950	7.5	48	36	--	46	--
11...	1130	276	53.0	2.4	2.16	--	7.5	36	27	62	47	--
FEB												
08...	0915	247	--	--	--	952	10.5	36	24	--	64	--
23...	0950	248	58.0	2.2	1.95	--	9.5	55	37	83	--	57
MAR												
24...	0830	372	--	--	--	890	12.5	174	175	--	76	--
24...	1230	384	56.0	2.9	2.34	--	14.5	175	181	352	--	82
APR												
20...	1015	352	56.0	2.8	2.27	--	15.0	294	279	519	--	44
20...	1100	366	--	--	--	991	16.0	177	175	--	--	--
MAY												
17...	1330	518	--	--	--	844	16.5	260	364	--	85	--
17...	1600	526	56.0	3.7	2.53	--	17.5	528	750	1270	--	47
JUN												
06...	1200	500	--	--	--	854	18.5	221	298	--	74	--
23...	1040	473	56.0	3.6	2.38	--	19.5	217	277	517	--	71
JUL												
06...	1100	368	--	--	--	812	20.5	194	193	--	61	--
19...	1215	311	54.0	2.7	2.16	--	21.5	217	182	352	--	69
AUG												
16...	1430	364	54.0	3.0	2.23	--	23.0	555	545	959	--	91
17...	1045	282	--	--	--	886	21.0	414	315	--	90	--
SEP												
21...	1015	298	--	--	--	877	18.0	389	313	--	92	--
21...	1130	298	54.0	2.7	2.08	--	18.0	362	291	542	--	91

RIO GRANDE BASIN

08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	SED. SUSP. FALL DIAM. % FINER THAN (70343)	SED. SUSP. FALL DIAM. % FINER THAN (70344)	SED. SUSP. FALL DIAM. % FINER THAN (70345)	SED. SUSP. FALL DIAM. % FINER THAN (70346)	BED MAT. SIEVE DIAM. % FINER THAN (80164)	BED MAT. SIEVE DIAM. % FINER THAN (80165)	BED MAT. SIEVE DIAM. % FINER THAN (80166)	BED MAT. SIEVE DIAM. % FINER THAN (80167)	BED MAT. SIEVE DIAM. % FINER THAN (80168)	BED MAT. SIEVE DIAM. % FINER THAN (80169)	BED MAT. SIEVE DIAM. % FINER THAN (80170)
OCT 1993											
14...	--	--	--	--	--	--	--	--	--	--	--
18...	48	61	99	100	--	0	3	77	99	100	--
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
19...	16	35	100	--	--	0	7	76	99	100	--
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--
14...	45	78	100	--	--	0	6	71	97	100	--
JAN 1994											
11...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	0	5	70	95	99	100
FEB											
08...	--	--	--	--	--	--	--	--	--	--	--
23...	63	87	100	--	--	0	7	67	97	100	--
MAR											
24...	--	--	--	--	--	--	--	--	--	--	--
24...	89	96	100	--	--	0	7	75	98	100	--
APR											
20...	69	90	100	--	--	0	6	73	99	100	--
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
17...	--	--	--	--	--	--	--	--	--	--	--
17...	52	62	100	--	0	1	10	81	99	100	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
23...	89	96	100	--	0	1	8	74	97	100	--
JUL											
06...	--	--	--	--	--	--	--	--	--	--	--
19...	84	95	100	--	--	0	4	53	95	100	--
AUG											
16...	95	99	100	--	0	1	8	76	94	99	100
17...	--	--	--	--	--	--	--	--	--	--	--
SEP											
21...	--	--	--	--	--	--	--	--	--	--	--
21...	95	99	100	--	0	1	8	67	95	100	--

RIO GRANDE BASIN

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM

(National stream-quality accounting network, surveillance network, and radiochemical network station)

LOCATION.--Lat 33°40'50", long 106°59'30", Socorro County, Hydrologic Unit 13020203, in Pedro Armendaris Grant No. 33, on pier of the Atchison, Topeka, and Santa Fe Railway Co. bridge, 1.1 mi downstream from former site of San Marcial, 18.5 mi southwest of San Antonio, and at mile 1.425.2.

DRAINAGE AREA.--27,700 mi², approximately, including 2,940 mi² in closed basin in San Luis Valley, CO.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to current year. Records collected at this site January 1895 to September 1964 represented total flow of the river and were published as Rio Grande at San Marcial (station 08358500). Records of daily discharge for floodway only, April 1950, to September 1964, are available in files of district office.

GAGE.--Water-stage recorder. Datum of gage is 4,455.19 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor. Floodway is 1 of 2 channels (station 08358300) carrying flow in valley cross section. Prior to 1950 all flow was in floodway channel. Normal plan is for floodway to carry flow when capacity of conveyance channel (about 2,000 ft³/s) is exceeded. Combined monthly discharge in acre-ft is given at end of each year table. Diversion for irrigation of about 775,000 acres upstream from station (includes about 13,800 acre-ft diverted from conveyance channel, as based on weekly measurements, data provided by U.S. Bureau of Reclamation). U.S. Bureau of Reclamation satellite telemeter at station.

AVERAGE DISCHARGE.--30 years (water years 1965-94), 793 ft³/s, 574,500 acre-ft/yr. Total flow of river, 99 years (water years 1895-1994), 1,272 ft³/s, 921,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, since January 1895, about 50,000 ft³/s, Oct. 11, 1904; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5,440 ft³/s, May 28; no flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	e430	e1260	e844	776	546	697	2920	2990	3590	261	515
2	.00	e600	e1130	e800	819	502	784	2770	2910	2540	281	357
3	.00	940	1140	e830	810	613	819	2560	3400	1700	439	144
4	.00	904	1250	e860	764	530	783	2250	3890	949	e460	1330
5	.00	920	1240	e880	672	652	1120	2220	3990	526	e450	1200
6	.00	1120	1240	e942	588	766	1240	2060	3760	337	e280	648
7	.00	1040	1210	e915	605	664	1270	2050	2930	221	e180	696
8	.00	1090	1180	e781	730	903	1460	2220	2810	90	e150	688
9	.00	1130	1270	e727	829	956	1600	2800	3050	35	e140	323
10	.00	1090	1260	e730	683	1020	1450	2890	3590	13	e190	386
11	.00	1010	1270	e754	607	972	1600	3080	3730	.57	e160	295
12	.00	1000	1210	706	664	1090	1760	3400	3820	.00	e220	153
13	39	1000	1240	668	771	1170	1750	3970	3560	.00	e110	124
14	95	1040	1270	661	716	1100	1810	4540	3550	.00	e50	103
15	112	1110	1320	613	732	1070	1860	4300	3540	.00	e55	829
16	125	1340	1280	585	730	860	1860	4620	3660	.00	500	1060
17	140	1120	1270	592	697	498	2040	4640	3730	.00	1620	1100
18	110	1170	1270	620	650	332	e2220	4500	3840	.00	2140	515
19	120	1200	1200	591	644	322	e2300	4150	3860	.00	3090	331
20	201	1230	1200	579	650	561	2380	4190	3950	.00	1100	197
21	238	1140	1190	554	684	718	2760	4230	3990	.00	623	150
22	249	1040	1170	563	714	934	2840	4120	3970	.00	227	96
23	224	1020	1120	550	731	920	2830	4130	4040	.00	701	39
24	165	1030	1080	540	787	1020	3030	4400	4040	.00	1140	7.9
25	143	994	1170	528	755	1210	3050	4560	4060	.00	407	.10
26	105	1140	1190	533	692	1230	3150	4750	3980	.00	405	.00
27	272	1200	1060	599	689	1140	3640	5180	4020	12	132	.00
28	310	1210	923	657	681	1240	3810	5440	4010	21	36	.00
29	e260	1210	e1000	693	---	1260	3680	5250	3960	209	133	.00
30	e300	1190	e912	727	---	1060	3350	4450	3890	198	175	.00
31	e270	---	e850	732	---	766	---	3440	---	195	92	---
TOTAL	3478.00	31658	36375	21354	19870	26625	62943	116080	110520	10636.57	15947	11287.00
MEAN	112	1055	1173	689	710	859	2098	3745	3684	343	514	376
MAX	310	1340	1320	942	829	1260	3810	5440	4060	3590	3090	1330
MIN	.00	430	850	528	588	322	697	2050	2810	.00	36	.00
AC-FT	6900	62790	72150	42360	39410	52810	124800	230200	219200	21100	31630	22390
(†)	30870	79330	89210	58410	53400	76780	149500	259600	245400	41900	50990	91140

CAL YR 1993 TOTAL 543079.93 MEAN 1488 MAX 5590 MIN .00 AC-FT 1077000 MEAN 1822 AC-FT 1319000
WTR YR 1994 TOTAL 466773.57 MEAN 1279 MAX 5440 MIN .00 AC-FT 925800 MEAN 1624 AC-FT 1776000

e Estimated

(†) COMBINED FLOW, IN ACRE-FEET, AND MEAN, IN CUBIC FEET PER SECOND, OF FLOODWAY AND CONVEYANCE CHANNEL.

RIO GRANDE BASIN

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1903-07, 1946 to current year.

LIMITS OF DATA AVAILABLE:

SPECIFIC CONDUCTANCE: May 1905 to April 1907, July 1946 to current year.

WATER TEMPERATURE: January 1949 to current year.

SUSPENDED-SEDIMENT DISCHARGE: July 1946 to current year.

REMARKS.--Records of chemical analyses and sediment discharge for years prior to 1946 have been published in Water Bulletins of International Boundary and Water Commission. Sediment total-loads (suspended plus bed material discharge), in tons per day, were determined from the regression equation developed for the period of record. Once-daily water temperature readings were made by the field observer, and once-daily specific conductance values were determined in the laboratory from daily suspended sediment samples collected by the field observer.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 2,730 microsiemens, Apr. 8, 1953; minimum daily, 276 microsiemens, May 11, 1994

WATER TEMPERATURE: Maximum daily, 37.0 °C, July 22, 27, Aug. 7; minimum daily, 0.0 °C on many days during winter periods.

SEDIMENT CONCENTRATION: Maximum daily mean, 135,000 mg/L, July 23, 1977; minimum daily mean, no flow on many days each year.

SEDIMENT LOAD: Maximum daily, 1,200,000 tons, Sept. 21, 1982; minimum daily, 0 ton on many days each year.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,160 microsiemens, Aug. 19; minimum daily, 276 microsiemens, May 11.

WATER TEMPERATURE: Maximum daily, 31.0 °C, July 6-9, 10, Aug. 9; minimum daily 0.0 °C Jan. 20, Feb. 1, 6, 9.

SEDIMENT CONCENTRATION: Maximum daily mean, 42,300 mg/L, Aug. 17; minimum daily mean, no flow on many days.

SEDIMENT LOAD: Maximum daily, 266,000 tons, Aug. 19; minimum daily, 0 ton on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED OF (MG/L) (00300)	OXYGEN, DIS- SOLVED CENT SATUR- ATION (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT 1993												
18...	1115	105	530	8.7	17.0	13.0	--	647	9.8	110	--	--
NOV 19...	0845	1220	482	8.4	2.0	5.0	360	654	10.3	94	830	3700
DEC 14...	0915	1300	460	8.3	-2.0	1.0	--	653	11.5	95	--	--
JAN 1994	20...	1030	598	488	8.2	1.0	0.0	654	9.6	77	--	--
FEB 07...	1030	569	510	8.4	3.0	4.0	--	650	12.0	108	--	--
MAR 23...	1230	1010	471	8.3	20.0	12.0	77	644	9.4	104	220	160
APR 20...	0845	2120	420	8.0	19.5	16.0	--	651	7.9	94	--	--
MAY 18...	0830	4570	370	7.9	21.0	16.5	320	650	7.4	89	90	380
JUN 07...	1030	3030	322	8.0	29.0	21.0	--	648	7.6	101	--	--
JUL 07...	0815	217	395	8.8	24.0	24.0	--	649	6.1	85	--	--
AUG 17...	0900	2550	1150	8.0	23.5	23.0	--	652	5.9	81	--	--
SEP 21...	0845	147	623	8.5	18.5	18.0	2500	650	7.8	97	2100	1700

RIO GRANDE BASIN

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
OCT 1993												
18...	160	13	51	9.1	47	2	4.2	161	12	151	156	83
NOV												
19...	160	22	48	8.4	38	1	3.7	162	0	132	138	66
DEC												
14...	140	12	44	8.2	39	1	3.7	161	0	132	141	65
JAN 1994												
20...	150	11	47	8.4	44	2	4.2	172	0	141	145	73
FEB												
07...	150	22	47	8.3	46	2	4.4	158	0	139	143	75
MAR												
23...	150	17	45	7.9	38	1	3.5	152	2	128	131	71
APR												
20...	140	22	43	7.6	31	1	3.8	142	0	116	129	69
MAY												
18...	120	18	36	6.6	27	1	3.3	121	0	99	106	55
JUN												
07...	110	19	35	6.2	21	0.9	3.1	114	0	93	100	49
JUL												
07...	100	19	31	6.3	37	2	3.5	91	6	84	106	76
AUG												
17...	340	240	110	17	100	2	6.5	124	0	102	143	380
SEP												
21...	180	35	55	10	54	2	4.3	172	2	144	150	130
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT 1993												
18...	21	0.50	21	317	331	--	<0.010	0.570	0.040	0.26	0.30	0.30
NOV												
19...	19	0.40	21	262	290	1.07	0.030	1.10	<0.010	--	0.50	--
DEC												
14...	21	0.40	21	259	288	1.28	0.020	1.30	0.030	--	0.60	<0.20
JAN 1994												
20...	26	0.50	23	299	316	0.910	0.030	0.940	0.040	--	0.50	<0.20
FEB												
07...	23	0.50	24	315	313	1.48	0.020	1.50	0.020	--	0.40	<0.20
MAR												
23...	19	0.50	21	284	286	0.580	0.020	0.600	0.010	--	0.70	--
APR												
20...	14	0.30	20	272	261	--	<0.010	0.550	0.020	--	0.90	<0.20
MAY												
18...	14	0.30	17	229	221	0.320	0.010	0.330	0.040	--	0.80	--
JUN												
07...	8.9	0.30	17	206	198	--	<0.010	0.280	0.020	--	0.50	<0.20
JUL												
07...	18	0.50	16	246	239	--	<0.010	<0.050	<0.010	--	1.2	<0.20
AUG												
17...	56	0.40	14	816	751	--	<0.010	1.30	0.030	0.27	23	0.30
SEP												
21...	26	0.60	19	397	391	--	<0.010	1.10	<0.015	--	3.0	--

RIO GRANDE BASIN

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CYANIDE TOTAL (MG/L AS CN) (00720)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIIUM, DIS- SOLVED (UG/L AS BA) (01005)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)
OCT 1993												
18...	0.270	0.220	0.200	--	--	--	--	<3	--	<1	--	--
NOV												
19...	0.310	0.120	0.150	<0.010	10	63	<3	11	35	2	3	1
DEC												
14...	0.450	0.160	0.170	--	--	--	--	22	--	2	--	--
JAN 1994												
20...	0.460	0.250	0.240	--	--	--	--	5	--	<1	--	--
FEB												
07...	0.350	0.260	0.270	--	--	--	--	7	--	<1	--	--
MAR												
23...	0.630	0.170	0.180	<0.010	<10	62	<3	<3	40	1	<10	<1
APR												
20...	0.840	0.110	0.120	--	--	--	--	15	--	1	--	--
MAY												
18...	0.430	0.080	0.090	<0.010	20	57	<3	24	46	3	<10	<1
JUN												
07...	0.240	0.100	0.080	--	--	--	--	16	--	2	--	--
JUL												
07...	0.350	<0.010	<0.010	--	--	--	--	16	--	1	--	--
AUG												
17...	1.60	0.040	0.020	--	--	--	--	<3	--	<1	--	--
SEP												
21...	1.60	0.110	--	--	<10	51	<3	4	47	<1	<10	1

DATE	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	NITRO- GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO- GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOS- PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD) (01028)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01029)
OCT 1993											
18...	--	--	--	--	--	--	--	--	--	--	--
NOV											
19...	<1	<1.0	440	<6	<2.0	<0.2	<20	330	2	<1	3
DEC											
14...	--	--	--	--	--	--	--	--	--	--	--
JAN 1994											
20...	--	--	--	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
23...	<1	<1.0	380	8	--	--	--	--	--	--	--
APR											
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
18...	<1	<1.0	300	<6	--	--	--	--	--	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
AUG											
17...	--	--	--	--	--	--	--	--	--	--	--
SEP											
21...	<1	<1.0	670	<6	--	--	--	--	--	--	--

RIO GRANDE BASIN

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB) (01052)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN) (01093)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)
OCT 1993											
18...	--	--	--	--	--	--	--	--	--	--	--
NOV											
19...	<5	2	2500	<10	78	<0.10	8	0.19	0.040	2.8	<1.0
DEC											
14...	--	--	--	--	--	--	--	--	--	--	--
JAN 1994											
20...	--	--	--	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
23...	--	--	--	--	--	--	--	--	--	--	--
APR											
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
18...	--	--	--	--	--	--	--	0.05	0.020	1.9	<1.0
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
AUG											
17...	--	--	--	--	--	--	--	--	--	--	--
SEP											
21...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (000061)	STREAM WIDTH (FT) (000004)	STREAM DEPTH, MEAN (FT) (000064)	STREAM VELOC- ITY, MEAN (F/S) (000055)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (000095)	TEMPER- ATURE WATER (DEG C) (000010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, DISCH, SUSP. + BED MA- TERIAL (T/DAY) (80156)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)
OCT 1993												
18...	1115	105	--	--	--	530	13.0	383	109	--	95	--
18...	1300	105	154	0.66	1.04	--	13.0	363	103	189	--	--
NOV												
19...	0845	1220	--	--	--	482	5.0	2300	7580	--	71	--
19...	0945	1220	207	1.7	3.41	--	--	2640	8700	10900	--	18
DEC												
14...	0915	1300	--	--	--	460	1.0	2370	8320	--	42	--
14...	1300	1300	185	1.9	3.67	--	--	2360	8280	10400	--	12
JAN 1994												
11...	1415	754	180	1.5	2.83	--	3.0	1330	2710	3730	--	--
20...	1030	598	--	--	--	488	0.0	1060	1710	--	33	--
FEB												
07...	1030	569	--	--	--	510	4.0	709	1090	--	49	--
23...	1200	750	133	1.8	3.11	--	4.0	1540	3120	4250	--	--
MAR												
23...	1230	1010	--	--	--	471	12.0	1250	3400	--	46	--
23...	1430	905	183	1.7	2.83	--	14.5	1300	3180	4310	--	--
APR												
20...	0845	2120	--	--	--	420	16.0	2220	12700	--	--	--
20...	1400	2380	184	2.5	5.13	--	17.5	2560	16500	19500	--	--
MAY												
18...	0830	4570	--	--	--	370	16.5	1740	21500	--	46	--
18...	1230	4760	370	3.3	3.97	--	16.5	1810	23300	26800	--	--
JUN												
07...	1030	3030	--	--	--	322	21.0	1480	12100	--	36	--
23...	1430	3890	--	--	--	--	24.5	956	10000	12300	--	--
JUL												
07...	0815	217	--	--	--	395	24.0	274	161	--	64	--
AUG												
16...	1150	485	140	1.4	2.51	--	23.0	50300	65900	69500	--	69
17...	0900	2550	--	--	--	1150	23.0	35000	241000	--	98	--
SEP												
21...	0845	147	--	--	--	623	18.0	3860	1530	--	99	--
21...	1345	150	120	0.90	1.40	--	20.5	3360	1360	2010	--	85

RIO GRANDE BASIN

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR BEGINNING 1993 TO SEPTEMBER 1994

DATE	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM (80165)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM (80166)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM (80167)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)
OCT 1993												
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	92	93	100	--	1	12	75	99	100
NOV												
19...	--	--	--	--	--	--	--	--	--	--	--	--
19...	20	22	29	62	77	97	100	2	7	86	100	--
DEC												
14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	14	15	20	48	70	97	100	1	9	71	100	--
JAN 1994												
11...	--	--	--	43	60	100	--	30	45	98	100	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
07...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	36	65	100	--	2	16	84	100	--
MAR												
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	54	81	99	100	4	25	87	100	--
APR												
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	43	70	99	100	2	11	88	100	--
MAY												
18...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	64	88	99	100	1	14	80	100	--
JUN												
07...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	51	84	100	--	2	20	87	100	--
JUL												
07...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
16...	80	88	97	99	99	100	--	1	9	78	99	100
17...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
21...	--	--	--	--	--	--	--	--	--	--	--	--
21...	90	92	94	96	96	100	--	2	15	73	100	--

RIO GRANDE BASIN

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM -- Continued

WATER-QUALITY RECORDS

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	599	458	---	508	532	461	356	---	384	---	1030
2	---	597	480	---	510	526	465	358	---	383	527	787
3	---	575	482	498	510	461	463	362	---	382	574	733
4	---	533	480	497	509	462	461	361	---	380	576	1130
5	---	521	480	501	510	460	376	357	---	379	669	1160
6	---	520	481	500	510	460	375	301	---	381	417	708
7	---	499	---	501	507	459	384	334	377	338	437	680
8	---	556	---	499	504	460	419	313	377	317	441	616
9	---	488	---	496	504	460	445	312	376	314	467	580
10	---	488	---	499	504	459	447	314	376	840	---	546
11	---	469	---	502	504	461	362	276	374	---	---	762
12	---	478	---	481	504	460	363	313	384	---	525	720
13	---	454	---	463	503	459	361	313	375	---	---	605
14	---	449	467	495	504	461	366	313	386	---	---	611
15	---	477	---	502	520	459	369	332	387	---	---	---
16	---	473	---	471	521	460	368	329	380	---	783	948
17	---	486	---	468	519	460	367	313	396	---	628	889
18	544	477	---	506	519	464	357	330	390	---	1150	707
19	---	479	---	473	520	460	357	330	390	---	1160	658
20	---	480	---	484	519	460	357	313	398	---	757	638
21	595	475	---	496	519	459	357	313	375	---	686	615
22	608	475	---	502	515	459	362	313	378	---	817	607
23	598	472	---	503	516	459	359	313	379	---	664	606
24	603	478	---	483	516	463	363	313	380	---	778	568
25	601	473	---	464	515	460	355	330	382	---	771	---
26	598	472	---	506	516	462	355	313	378	---	674	---
27	597	482	---	478	515	463	356	313	383	---	645	---
28	596	471	---	474	515	463	356	313	382	381	641	---
29	597	473	---	494	---	461	357	313	379	1080	805	---
30	595	472	---	496	---	463	358	313	382	667	845	---
31	597	---	---	488	---	461	---	313	---	581	695	---
MEAN	---	495	---	---	512	465	383	322	---	---	---	---
MAX	---	599	---	---	521	532	465	362	---	---	---	---
MIN	---	449	---	---	503	459	355	276	---	---	---	---

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	3.0	---	.0	8.0	---	13.0	---	27.0	---	---
2	---	---	3.0	---	1.0	9.5	---	14.0	---	28.0	29.5	---
3	---	---	5.0	3.0	1.0	6.0	---	15.0	---	28.0	27.0	---
4	---	8.0	4.0	2.0	1.0	7.0	---	15.0	---	28.0	---	---
5	---	12.0	4.0	3.0	1.0	6.0	10.0	18.1	---	29.0	---	---
6	---	12.0	4.0	4.0	.0	7.0	10.0	19.0	---	31.0	30.0	---
7	---	12.0	---	2.0	1.0	7.0	11.0	20.0	23.0	31.0	27.5	---
8	---	10.0	---	2.0	1.0	8.0	12.0	20.0	24.0	30.0	27.0	---
9	---	11.0	---	2.0	.0	7.0	11.0	18.0	23.0	31.0	31.0	---
10	---	12.0	---	3.0	1.0	9.0	10.0	19.0	23.0	31.0	---	---
11	---	10.0	---	3.0	2.0	10.0	9.0	18.0	24.0	---	---	---
12	---	8.0	---	3.0	2.0	8.0	10.0	19.0	24.0	---	28.0	---
13	---	8.0	---	4.0	2.0	7.0	11.0	19.0	24.0	---	---	---
14	---	10.0	1.0	4.0	2.0	6.0	11.0	20.0	24.0	---	---	---
15	---	8.0	---	2.0	3.0	6.0	12.0	19.0	25.0	---	---	---
16	---	9.0	---	2.0	4.0	7.0	12.0	20.0	26.0	---	27.0	---
17	---	8.0	---	2.0	4.0	7.0	12.0	20.0	26.0	---	27.0	---
18	13.0	8.0	---	3.0	4.0	8.0	11.0	20.0	27.0	---	26.0	---
19	---	7.0	---	3.0	5.0	7.0	9.0	21.0	27.0	---	25.0	---
20	---	6.0	---	2.0	7.0	7.0	10.0	21.0	28.0	---	27.0	---
21	20.0	7.0	---	2.0	7.0	9.0	11.0	20.0	28.0	---	25.5	---
22	18.0	7.0	---	2.0	8.0	9.0	12.0	20.0	27.0	---	25.0	---
23	---	6.0	---	2.0	7.0	10.0	12.0	21.0	27.0	---	26.0	---
24	---	6.0	---	2.0	8.0	10.0	12.0	21.0	28.0	---	25.5	---
25	---	5.0	---	3.0	7.0	10.0	13.0	21.0	27.0	---	26.0	---
26	---	4.0	---	2.0	7.0	---	11.0	22.0	28.0	---	25.0	---
27	---	3.0	---	2.0	7.0	---	13.0	21.0	27.0	---	25.0	---
28	---	3.0	---	2.0	8.0	---	14.0	22.0	28.0	29.0	26.0	---
29	---	4.0	---	1.0	---	---	13.0	23.0	28.0	28.0	26.5	---
30	---	3.0	---	1.0	---	---	14.0	22.0	28.0	28.0	25.0	---
31	---	---	---	1.0	---	---	---	22.0	---	29.0	---	---
MEAN	---	---	---	---	3.6	---	---	19.5	---	---	---	---
MAX	---	---	---	---	8.0	---	---	23.0	---	---	---	---
MIN	---	---	---	---	.0	---	---	13.0	---	---	---	---

RIO GRANDE BASIN

08361000 RIO GRANDE BELOW ELEPHANT BUTTE DAM, NM

LOCATION.--Lat 33°08'54", Long 107°12'22", Sierra County, Hydrologic Unit 13030101, in Pedro Armendaris Grant, on left bank 1.0 mi downstream from dam 1.5 mi upstream from Cuchillo Negro River and at mile 1.382.2

PERIOD OF RECORD.--January 1915 to current year. Monthly or annual discharge only for some periods, published in WSP 1732. Figures of daily discharge, published in WSP 458 for October to December 1916, are unreliable.

REVISED RECORDS.--WSP 1562: 1920. WSP 1632: Drainage area. WSP 1732: 1917, 1920. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 4,241.09 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 24, 1980, at datum 1.0 ft higher. See WSP 1732 for history of changes prior to Apr. 24, 1942.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Elephant Butte Reservoir (station 08360500). Diversion for irrigation of about 800,000 acres upstream from station. U.S. Bureau of Reclamation satellite telemeter at station. No flow at times prior to 1929, Mar. 2-4, 1979.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	9.6	e2.8	e1.3	50	90	1520	3290	4550	3540	362	354
2	9.2	9.9	2.4	e1.3	52	94	1510	3280	e4340	2480	360	356
3	8.9	10	e2.0	e1.3	53	94	1520	3300	e4330	2450	354	357
4	8.7	11	e1.6	e1.3	53	91	1510	3320	e4330	2460	356	359
5	8.6	11	e1.2	e1.3	55	88	1520	3340	e4330	2450	356	359
6	8.2	12	e.90	e1.3	56	88	1510	3690	e4330	1220	355	352
7	8.0	12	e.90	e1.3	56	89	1530	4020	e3540	123	348	361
8	7.9	12	1.2	e1.3	57	524	1540	3990	e3110	121	352	352
9	7.8	13	e1.3	e1.3	59	789	1550	3990	e3100	117	360	340
10	7.7	12	e1.3	1.3	60	802	1550	4000	e3080	114	357	339
11	7.5	13	e1.3	1.2	61	807	1560	4000	e3080	115	354	339
12	8.1	12	e1.3	1.4	62	816	1530	4020	e3080	115	349	332
13	8.1	12	e1.3	2.9	63	814	1050	4040	e3080	168	338	332
14	8.1	13	e1.3	7.4	64	805	785	4040	e2960	337	337	332
15	8.5	12	e1.3	13	65	815	803	4050	e2950	360	336	334
16	8.6	11	e1.3	17	66	775	809	4050	e2950	356	333	179
17	9.0	e2.8	e1.3	20	68	797	818	4400	e2960	356	328	85
18	9.0	e2.8	e1.3	23	69	809	829	4600	e3000	356	324	88
19	9.0	e2.8	e1.3	25	69	822	841	4600	e3100	356	327	89
20	9.0	e2.8	e1.3	28	70	823	1260	4610	e3040	359	340	94
21	8.9	e2.8	e1.3	30	72	819	1900	4620	e3470	361	337	100
22	8.9	e2.8	e1.3	32	73	820	2350	4660	e3490	361	334	99
23	8.9	e2.8	e1.3	34	73	1260	2340	4690	3550	357	334	99
24	8.8	e2.8	e1.3	36	74	1520	2340	4720	3580	353	338	98
25	8.9	e2.8	e1.3	38	76	1520	2310	4890	3580	354	344	97
26	9.0	e2.8	e1.3	40	76	1520	2300	5120	3570	355	342	98
27	9.3	e2.8	e1.3	41	77	1510	2310	5150	3790	354	344	98
28	9.2	e2.8	e1.3	45	84	1510	2510	5190	4150	363	350	97
29	9.5	e2.8	e1.3	46	---	1510	3120	5210	4140	365	355	94
30	9.5	e2.8	e1.3	47	---	1520	3290	5240	4130	363	354	96
31	9.7	---	e1.3	49	---	1520	---	5270	---	363	351	---
TOTAL	269.8	224.7	42.90	589.9	1813	25861	50315	133390	106690	21902	10709	6709
MEAN	8.70	7.49	1.38	19.0	64.7	834	1677	4303	3556	707	345	224
MAX	9.7	13	2.8	49	84	1520	3290	5270	4550	3540	362	361
MIN	7.5	2.8	.90	1.2	50	88	785	3280	2950	114	324	85
AC-FT	535	446	85	1170	3600	51300	99800	264600	211600	43440	21240	13310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1994, BY WATER YEAR (WY)

	MEAN	330	276	319	323	708	1154	1523	1601	1795	1694	1411	797
MAX	2040	2662	2110	1944	3026	2297	2717	7601	6098	3442	2623	2169	
(WY)	1987	1942	1987	1987	1986	1989	1942	1942	1942	1987	1924	1939	
MIN	2.41	1.25	1.38	.000	3.38	16.6	188	8.32	284	673	155	2.73	
(WY)	1986	1972	1994	1918	1955	1983	1977	1957	1964	1964	1954	1954	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1917 - 1994

ANNUAL TOTAL	528600.80	358516.30	
ANNUAL MEAN	1448	982	995
HIGHEST ANNUAL MEAN			2665
LOWEST ANNUAL MEAN			253
HIGHEST DAILY MEAN	4240	5270	8220
LOWEST DAILY MEAN	.90	.90	.00
ANNUAL SEVEN-DAY MINIMUM	1.2	1.2	.00
INSTANTANEOUS PEAK FLOW			8220
ANNUAL RUNOFF (AC-FT)	1048000	711100	721100
10 PERCENT EXCEEDS	2450	3620	2090
50 PERCENT EXCEEDS	1750	328	1010
90 PERCENT EXCEEDS	2.8	1.3	5.2

e Estimated

RIO GRANDE BASIN

08362000 CABALLO RESERVOIR NEAR ARREY, NM

LOCATION.--Lat 32°53'47", long 107°17'30", in SE¼SW¼ sec.19, T.16 S., R.4 W., Sierra County, Hydrologic Unit 13030101, in control tower of Caballo Dam on Rio Grande, 0.5 mi downstream from mouth of Apache Canyon, 0.9 mi upstream from Bojarquez Bridge, 2 mi upstream from Percha diversion dam, 3.5 mi northeast of Arrey, 5.2 mi south of Caballo, and at mile 1,356.6.

DRAINAGE AREA.--30,700 mi², approximately, including 2,940 mi² in closed basin in San Luis Valley, CO.

PERIOD OF RECORD.--February 1938 to September 1965 (monthend contents only), October 1965 to current year.

REVISED RECORDS.--WSP 978: 1942. WSP 1632: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 43.3 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Reservoir is formed by earthfill dam, completed Sept. 19, 1938. Storage began Feb. 8, 1938. Capacity by 1983 survey, 331,500 acre-ft between gage heights 4,104 ft, bottom of tunnel entrance of gates and 4,182 ft, gage height above which spillway gates operate automatically. Capacity by original survey was 345,900 acre-ft. No dead storage. Storage held for flood control, 100,000 acre-ft. Water released from Elephant Butte Reservoir for power development is stored in Caballo Reservoir and released for irrigation on Rio Grande Project of U.S. Bureau of Reclamation.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 347,000 acre-ft, Mar. 4, 1942, gage height, 4,182.06 ft; minimum contents, 118 acre-ft, Oct. 14, 1938, gage height, 4,108.1 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 298,430 acre-ft, June 13, gage height, 4,179.05 ft; minimum contents, 46,240 acre-ft, Sept. 30, gage height, 4,143.92 ft.

Capacity table (gage height, in feet, and contents, in acre-feet)

4,125	4,810	4,160	131,200
4,130	11,680	4,170	209,400
4,140	33,770	4,180	308,900
4,150	71,800		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	228490	201550	200270	200010	194670	163960	102350	118050	276690	294310	191990	97690
2	226640	201900	200360	200010	194080	162060	103010	122120	280350	294090	190490	94880
3	224800	201550	200530	200010	193250	160000	103680	126280	283720	293770	186200	92700
4	223060	201380	200360	199930	192740	157960	104360	129460	286690	293550	183340	90490
5	221230	201300	200180	199840	192240	155700	105030	132830	289680	293230	180670	88370
6	219420	201310	200100	199760	191740	153460	104730	135670	292690	293230	178260	86220
7	217440	201130	200010	199840	191160	151230	104360	140040	295170	290000	175790	85460
8	216360	201040	200010	199840	189920	148790	104050	144530	297340	286270	173420	85130
9	214040	201040	200010	199760	187600	146510	104300	149010	296580	280980	170990	85020
10	211740	201130	200100	199760	186120	145480	104540	153980	296910	275750	167040	83840
11	209450	201040	200100	200010	184890	143080	104790	158790	297450	270580	163890	83030
12	207260	200950	200010	199670	183670	139250	105470	163580	297880	265460	160380	82230
13	205520	201040	200010	199330	182370	137890	105470	167890	298430	261310	156680	81340
14	203970	201130	200010	198990	181160	135240	104660	165190	298100	156890	153010	79870
15	203280	201210	200010	198730	180510	133970	103200	178100	297230	254110	149380	78360
16	203100	200780	200010	198390	178740	128910	101920	183420	296470	249480	145340	76680
17	202930	200870	200010	198050	178100	126830	100720	188420	295390	244310	142350	75010
18	202760	200780	199930	197800	176430	123610	99460	193160	294740	239310	139460	73370
19	202760	200950	199840	197460	175400	120910	98280	198050	294090	235980	136530	71750
20	203020	200950	199760	197290	174370	118250	97040	203190	293550	232690	133330	69820
21	202410	200870	200010	197040	173340	115620	96690	208490	293660	228950	130090	67270
22	202240	200780	200010	196700	172320	112840	97510	213770	292470	225160	126900	64600
23	202160	200700	200010	196440	171540	109650	98160	218970	291830	221510	124020	61660
24	202160	200700	199930	196110	171150	107450	101260	223970	291180	217890	120910	59830
25	202160	201550	199840	196020	169440	105650	103140	230250	291080	214310	117990	58050
26	202500	202410	199760	195680	168040	104660	104300	236650	290970	211300	114840	56260
27	202240	201730	199670	195430	166650	103680	106020	244020	290970	207610	111880	54480
28	201810	201040	199670	195350	165190	102710	107760	250850	290970	207520	109020	53240
29	201810	200360	200180	195260	---	101920	110160	258090	291180	200440	106150	50240
30	201730	200270	199930	195180	---	103560	114060	265160	292900	197630	103380	46240
31	201640	---	199930	195090	---	102100	---	272020	---	194840	101140	---
MAX	228490	202410	200530	200010	194670	163960	114060	272020	298430	294310	191990	97690
MIN	201640	200270	199670	195090	165190	101920	96690	118050	276690	156890	101140	46240
(†)	4169.11	4168.91	4168.91	4168.34	4164.62	4155.55	4157.46	4176.56	4178.54	4168.31	4155.39	4143.92
(††)	-29080	-1370	-340	-4840	-29900	-63090	+11960	+157960	+20880	-98060	-93700	-54900
CAL YR 1993	MAX 248590	MIN 34800	(††) -165310									
WTR YR 1994	MAX 298430	MIN 46240	(††) -184480									

(†) ELEVATION, IN FEET, AT END OF MONTH.

(††) CHANGE IN CONTENTS, IN ACRE-FEET.

RIO GRANDE BASIN

08362500 RIO GRANDE BELOW CABALLO DAM, NM

LOCATION.--Lat 32°53'05", long 107°17'31", in NE¼SW¼ sec.30, T.16 S., R.4 W., Sierra County, Hydrologic Unit 13030102, on left bank 2,000 ft upstream from Interstate Highway 25, 4,200 ft downstream from Caballo Dam, 1.2 mi upstream from Bonita Ditch, 1.5 mi upstream from Bonita Ditch, 2 mi northeast of Arroyo, 5 mi south of Caballo, and at mile 1.3556

DRAINAGE AREA.--30,700 mi², approximately, including 2,940 mi² in closed basin in San Luis Valley, CO.

PERIOD OF RECORD.--January 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,140.9 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 7, 1938, at datum 7.0 ft higher, Oct. 7-12, 1938, at datum 6.0 ft higher, and Oct. 13, 1938, to Dec. 31, 1945, at datum 5.0 ft higher than present datum.

REMARKS.--Flow regulated by Caballo Reservoir (station 08362000), capacity, 331,500 acre-ft, 1981 survey and Elephant Butte Reservoir (station 08360500), capacity, 2,065,000 acre-ft, 1988 survey. Diversions for irrigation of about 800,000 acres upstream from station. Figures of daily discharge do not include Bonita ditch, which diverts from Caballo Dam and bypasses station for irrigation downstream. See monthly table below for record of ditch. U.S. Bureau of Reclamation satellite telemeter at station.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

AVERAGE DISCHARGE.--56 years, 914 ft³/s, 662,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 7,650 ft³/s, May 20, 1942; minimum daily, 0.1 ft³/s, Oct. 31 to Nov. 14, 1954, Nov. 7 to Dec. 31, 1955, Feb. 15-29, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,570 ft³/s, June 27; minimum daily 8.0 ft³/s, Dec. 9 to Jan. 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	969	10	11	8.0	305	1060	1260	1280	2180	2640	1890	1880
2	890	10	11	8.0	385	1220	1130	1280	2100	2400	1870	1720
3	881	10	11	8.0	395	1310	1140	1570	2080	2410	1790	1580
4	873	10	11	8.0	400	1340	1150	1710	2120	2420	1770	1570
5	924	10	11	8.0	396	1330	1440	1710	2140	2260	1790	1570
6	977	10	11	8.0	398	1330	1640	1440	2380	2350	1730	996
7	969	10	11	8.0	689	1320	1650	1380	2720	2390	1690	606
8	1030	10	10	8.0	847	1560	1440	1390	2820	2650	1680	633
9	1130	10	9.0	8.0	819	1770	1260	1390	2820	2670	2000	818
10	1120	10	9.0	8.0	636	1770	1260	1390	2840	2670	2240	983
11	1120	10	9.0	8.0	628	1990	1160	1380	2850	2690	2230	977
12	899	10	9.0	146	554	2180	1330	1410	2870	2540	2300	977
13	736	10	9.0	146	530	2180	1580	1300	3070	2380	2360	1200
14	400	10	9.0	146	498	2130	1590	1220	3370	2360	2340	1280
15	108	10	8.0	146	498	2210	1550	1230	3480	2560	2330	1290
16	101	10	8.0	146	678	2420	1520	1230	3490	270	1990	1150
17	93	10	8.0	146	703	2470	1520	1580	3500	2730	2040	1090
18	79	10	8.0	146	633	2370	1530	1800	3500	2530	2030	1140
19	72	10	8.0	146	585	2270	1520	1800	3500	2270	2090	1130
20	67	10	8.0	146	585	2270	1510	1600	3510	2210	2140	1340
21	29	10	8.0	146	585	2270	1510	1520	3520	2220	2130	1530
22	24	10	8.0	146	585	2340	1440	1580	3540	2250	2120	1540
23	22	10	8.0	146	595	2390	1390	1380	3540	2270	2100	1330
24	22	10	8.0	146	612	2400	1410	1270	3550	2260	2090	1070
25	14	10	8.0	146	764	2140	1430	1060	3560	2100	2060	1050
26	14	10	8.0	146	925	1930	1440	778	3560	2060	2000	1030
27	10	10	8.0	146	925	1930	1500	913	3570	2190	1950	1140
28	10	10	8.0	146	960	1940	1360	930	3520	2230	1920	1290
29	10	10	8.0	146	---	1670	1310	944	3260	2050	1920	1270
30	9.0	10	8.0	146	---	1400	1270	952	2950	1920	1900	1230
31	9.0	---	8.0	146	---	1400	---	1610	---	1910	1890	---
TOTAL	13611.0	300	277.0	3089.0	17113	58310	42240	42027	91910	70860	62390	36410
MEAN	439	10.0	8.94	99.6	611	1881	1408	1356	3064	2286	2013	1214
MAX	1130	10	11	146	960	2470	1650	1800	3570	2730	2360	1880
MIN	9.0	10	8.0	8.0	305	1060	1130	778	2080	270	1680	606
AC-FT	27000	595	549	6130	33940	115700	83780	83360	182300	140600	123800	72220
(†)	22	0	0	0	0	91	74	66	145	100	127	19

CAL YR 1993 TOTAL 414972.0 MEAN 1137 MAX 2530 MIN 2.0 AC-FT 823100
WTR YR 1994 TOTAL 438537.0 MEAN 1201 MAX 3570 MIN 8.0 AC-FT 869800

(†) DIVERSION, IN ACRE-FEET, BY BONITA DITCH; DIVERTS DIRECTLY FROM CABALLO DAM AND THIS DIVERSION IS NOT INCLUDED IN THE RIVER RECORDS.

RIO GRANDE BASIN

08364000 RIO GRANDE AT EL PASO, TX
(National stream-quality accounting network
and National Water-Quality Assessment Program Station)

WATER-QUALITY RECORDS

LOCATION.--Lat 31°48'10", long 106°32'25", El Paso County, Hydrologic Unit 13030102, on downstream side of first pier from left abutment of Courchesne Bridge at El Paso, 1.7 mi upstream from American Dam, 5.6 mi upstream from Santa Fe Street-Juarez Avenue Bridge between El Paso and Cd. Juarez, Chihuahua, and at mile 1,249.

DRAINAGE AREA.--32,207 mi², approximately, including 2,940 mi² in closed basin in San Luis Valley, CO.

PERIOD OF RECORD.--Water years 1930 to current year.

REMARKS.--Records of discharge are given in International Boundary and Water Commission Water Bulletins.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	
OCT 1993												
20...	0830	E350	1490	8.4	10.0	12.5	--	670	8.5	91	--	
NOV												
09...	0915	E198	1750	8.5	13.0	10.5	5.5	673	9.4	96	110	
DEC												
07...	0815	E125	1890	8.5	5.5	6.5	--	674	10.2	95	--	
JAN 1994												
06...	1215	96	2080	8.4	18.5	10.0	15	664	10.6	108	550	
20...	1610	239	1420	--	21.0	12.0	6.5	--	--	--	--	
FEB												
09...	0830	300	1230	8.2	8.0	6.5	--	668	9.8	92	--	
MAR												
02...	0945	374	1080	8.3	15.5	10.5	14	677	9.6	98	210	
APR												
06...	0940	E690	1070	8.4	--	12.0	--	670	8.4	90	--	
12...	0815	720	1090	8.4	10.0	14.5	--	675	8.0	89	--	
19...	0730	E650	1050	8.4	12.0	17.5	--	669	7.4	88	--	
28...	0830	852	1070	8.2	11.0	13.0	--	667	8.7	95	--	
MAY												
03...	1320	745	1020	8.4	--	20.0	33	665	8.5	108	100	
11...	1130	E670	1050	8.3	25.0	20.0	--	667	8.0	101	--	
JUN												
22...	0830	2280	838	8.2	28.5	23.5	--	667	6.3	86	--	
JUL												
12...	0845	E1270	889	8.4	26.0	24.5	30	667	6.8	94	K190	
AUG												
16...	0800	E1150	757	8.3	--	24.5	--	670	6.2	85	--	
SEP												
20...	0730	E640	1200	8.3	21.5	20.0	--	670	6.3	79	--	
DATE		STREP-TOCOCCI, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)
OCT 1993												
20...	--	340	100	99	23	180	4	8.2	289	0	237	
NOV												
09...	240	380	130	110	25	230	5	1.6	287	10	251	
DEC												
07...	--	390	120	110	27	260	6	11	326	0	267	
JAN 1994												
06...	340	450	190	130	29	290	6	11	293	8	254	
20...	--	290	--	84	19	180	5	8.4	--	--	--	
FEB												
09...	--	260	89	75	18	160	4	8.0	210	0	172	
MAR												
02...	280	230	70	66	16	130	4	6.9	197	0	162	
APR												
06...	--	230	50	63	17	130	4	7.7	216	0	177	
12...	--	250	64	72	17	130	4	7.7	222	2	185	
19...	--	240	58	70	16	130	4	7.6	212	5	182	
28...	--	250	67	72	16	120	3	7.2	218	0	179	
MAY												
03...	--	240	69	70	16	120	3	7.6	211	0	173	
11...	--	250	65	73	17	130	4	7.6	228	0	187	
JUN												
22...	--	210	52	60	14	93	3	6.8	189	0	155	
JUL												
12...	200	200	36	59	13	94	3	6.9	196	3	166	
AUG												
16...	--	200	41	59	13	100	3	6.7	195	0	163	
SEP												
20...	--	260	73	74	18	150	4	8.7	225	1	187	

RIO GRANDE BASIN

08364000 RIO GRANDE AT EL PASO, TX -- Continued

WATER-QUALITY RECORDS

DATE	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT 1993											
20...	245	320	140	0.60	18	948	935	0.840	0.020	0.860	0.080
NOV											
09...	258	400	180	0.70	22	1140	1130	0.750	0.040	0.790	0.120
DEC											
07...	268	420	200	0.70	23	1220	1220	0.890	0.050	0.940	0.210
JAN 1994											
06...	262	460	240	0.80	29	1390	1350	0.920	0.050	0.970	0.300
20...	199	290	140	0.70	14	894	861	0.830	0.060	0.890	0.190
FEB											
09...	178	240	120	0.60	12	740	741	0.710	0.040	0.750	0.150
MAR											
02...	161	220	110	0.70	8.1	656	658	0.410	0.010	0.420	0.080
APR											
06...	180	210	110	0.70	6.0	686	652	0.360	0.030	0.390	0.060
12...	184	210	110	0.70	6.3	660	667	0.370	0.020	0.390	0.020
19...	181	200	95	0.60	5.5	648	635	--	<0.010	0.240	<0.010
28...	199	210	98	0.70	6.5	690	639	--	<0.010	0.300	0.050
MAY											
03...	182	210	96	0.70	6.6	672	633	--	<0.010	0.210	0.030
11...	192	220	98	0.70	8.4	684	669	0.340	0.010	0.350	0.050
JUN											
22...	162	160	63	0.60	10	505	502	--	<0.010	0.310	0.030
JUL											
12...	168	170	68	0.60	11	541	524	--	<0.010	0.310	0.020
AUG											
16...	163	190	81	0.20	12	596	559	--	<0.010	0.170	0.010
SEP											
20...	188	250	120	0.70	17	734	751	0.280	0.010	0.290	0.030

DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
OCT 1993										
20...	0.22	0.50	0.30	0.130	0.080	0.060	--	--	--	--
NOV										
09...	--	0.30	--	0.090	0.060	0.070	--	--	<10	--
DEC										
07...	0.19	0.50	0.40	0.090	0.070	0.070	--	--	--	--
JAN 1994										
06...	--	0.80	--	0.130	0.090	0.070	--	--	<10	--
20...	--	0.70	--	0.100	0.040	0.050	--	--	<10	3
FEB										
09...	0.25	1.0	0.40	0.260	0.060	0.060	--	--	--	--
MAR										
02...	0.32	0.70	0.40	0.160	0.060	0.040	--	--	<10	--
APR										
06...	0.24	0.60	0.30	0.100	0.020	0.020	--	--	--	--
12...	0.28	0.50	0.30	0.140	0.020	0.020	4.0	1.0	--	--
19...	--	0.50	<0.20	0.090	0.020	0.020	5.7	0.7	--	--
28...	0.15	0.30	0.20	0.050	0.040	0.030	3.8	0.7	--	--
MAY										
03...	--	0.50	--	0.110	0.010	0.010	--	1.0	<10	--
11...	0.35	0.50	0.40	0.120	0.030	0.040	5.7	1.1	--	--
JUN										
22...	--	0.60	<0.20	0.260	0.020	0.030	--	--	--	--
JUL										
12...	--	0.70	--	0.250	0.030	0.020	--	--	<10	--
AUG										
16...	--	0.80	<0.20	0.180	0.030	<0.010	--	--	--	--
SEP										
20...	--	0.90	<0.20	0.170	0.010	<0.010	--	--	--	--

RIO GRANDE BASIN
08364000 RIO GRANDE AT EL PASO, TX -- Continued
WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	CADMIUM, DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM, DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY, DIS- SOLVED (UG/L AS HG) (71890)
OCT 1993										
20...	--	--	--	--	--	11	--	--	4	--
NOV										
09...	86	--	--	<3	--	<3	--	170	12	--
DEC										
07...	--	--	--	--	--	7	--	--	32	--
JAN 1994										
06...	<100	--	--	<1	--	20	--	220	50	--
20...	58	<1.0	<1	<3	1	4	<1	130	33	<0.1
FEB										
09...	--	--	--	--	--	9	--	--	16	--
MAR										
02...	56	--	--	<3	--	3	--	110	10	--
APR										
06...	--	--	--	--	--	4	--	--	1	--
12...	--	--	--	--	--	<3	--	--	2	--
19...	--	--	--	--	--	<3	--	--	1	--
28...	--	--	--	--	--	<3	--	--	2	--
MAY										
03...	64	--	--	<3	--	<3	--	100	4	--
11...	--	--	--	--	--	<3	--	--	4	--
JUN										
22...	--	--	--	--	--	5	--	--	1	--
JUL										
12...	63	--	--	<3	--	<3	--	84	1	--
AUG										
16...	--	--	--	--	--	4	--	--	2	--
SEP										
20...	--	--	--	--	--	23	--	--	7	--

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 1993										
20...	--	--	--	--	--	--	--	117	--	--
NOV										
09...	20	<1	<1	<1.0	1500	8	--	44	--	--
DEC										
07...	--	--	--	--	--	--	--	38	--	--
JAN 1994										
06...	12	1	<1	<1.0	1800	6	--	53	14	--
20...	20	1	<1	<1.0	1100	<6	20	--	--	--
FEB										
09...	--	--	--	--	--	--	--	150	122	87
MAR										
02...	<10	1	<1	<1.0	880	<6	--	92	93	64
APR										
06...	--	--	--	--	--	--	--	199	--	--
12...	--	--	--	--	--	--	--	189	367	51
19...	--	--	--	--	--	--	--	216	--	--
28...	--	--	--	--	--	--	--	222	511	--
MAY										
03...	10	<1	<1	<1.0	890	<6	--	167	336	--
11...	--	--	--	--	--	--	--	169	--	--
JUN										
22...	--	--	--	--	--	--	--	1020	6280	19
JUL										
12...	<10	<1	<1	<1.0	730	<6	--	288	--	39
AUG										
16...	--	--	--	--	--	--	--	327	--	36
SEP										
20...	--	--	--	--	--	--	--	189	--	66

RIO GRANDE BASIN

08364000 RIO GRANDE AT EL PASO, TX -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)
APR										
06...	0940	<0.015	<0.008	0.008	<0.008	<0.003	<0.013	<0.008	<0.007	<0.010
12...	0815	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010
19...	0730	<0.015	<0.008	EO.006	EO.007	<0.005	<0.013	<0.008	<0.007	<0.010
28...	0830	<0.015	<0.008	<0.008	0.009	<0.005	<0.013	<0.008	<0.007	<0.010
MAY										
03...	1320	<0.015	<0.008	<0.008	0.008	<0.005	<0.013	<0.008	<0.007	<0.010
11...	1130	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010

DATE	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
APR										
06...	0.008	<0.011	<0.008	EO.003	<0.014	<0.022	<0.008	EO.006	<0.009	<0.012
12...	<0.008	<0.011	<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012
19...	<0.008	<0.011	<0.008	<0.009	<0.014	<0.022	<0.008	EO.004	<0.009	<0.012
28...	<0.008	<0.011	<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012
MAY										
03...	<0.008	<0.011	<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012
11...	<0.008	<0.011	<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012

DATE	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH- OATE WATER FLTRD 0.7 U GF, REC (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)
APR										
06...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009
12...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009
19...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009
28...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009
MAY										
03...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009
11...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009

DATE	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
APR										
06...	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012	<0.009	<0.008	<0.008	<0.016
12...	<0.015	<0.007	<0.012	<0.013	0.013	<0.012	<0.009	<0.010	<0.008	<0.016
19...	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012	<0.009	<0.010	<0.008	<0.016
28...	<0.015	<0.007	<0.012	<0.013	0.022	<0.012	<0.009	<0.060	<0.008	<0.016
MAY										
03...	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
11...	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016

DATE	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- FARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	SAM- PLING METHOD, CODES (82398)
APR									
06...	<0.046	<0.008	0.012	<0.018	<0.010	<0.006	<0.038	<0.016	10
12...	<0.046	<0.008	0.006	<0.018	<0.010	<0.008	<0.05	<0.016	10
19...	<0.046	<0.008	0.005	<0.018	<0.010	<0.008	<0.05	<0.016	10
28...	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016	--
MAY									
03...	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016	10
11...	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016	10

RIO GRANDE BASIN

08377900 RIO MORA NEAR TERRERO, NM

(Hydrologic bench-mark station)

LOCATION.--Lat 35°46'38", long 105°39'27", in SW¼NE¼ sec.22, T.18 N., R.12 E., San Miguel County, Hydrologic Unit 13060001, in Santa Fe National Forest, on left bank 450 ft upstream from bridge on State Highway 63, 600 ft upstream from mouth, and 2.6 mi north of Terrero.

DRAINAGE AREA.--53.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 7,890 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. About 90 percent of the drainage is in the Pecos Wilderness Area and not subject to development, watershed management, or the building of highways; there is limited cattle grazing by permit.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since 1886 probably occurred Sept. 29, 1904 (based on statement for Pecos River near Pecos and history of that flood period).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	e6.5	e6.0	e5.0	e4.0	e6.4	19	43	315	28	49	51
2	10	e6.9	e6.0	e5.0	e4.0	e6.2	21	42	309	26	46	53
3	10	e6.0	e5.0	e5.0	e5.0	e6.6	21	42	286	24	41	56
4	9.8	e6.4	e5.0	e5.5	e5.0	e7.0	22	43	271	22	40	61
5	9.7	e7.0	e5.5	e5.5	e5.0	e7.6	21	60	249	21	54	53
6	9.7	e5.4	e6.0	e6.0	e6.0	e8.0	20	87	216	20	57	51
7	11	e4.8	e5.5	e6.0	e6.0	e8.0	19	111	187	19	48	47
8	10	e5.3	e5.5	e6.0	e6.0	e7.6	18	113	156	18	43	42
9	10	e6.0	e5.0	e6.0	e6.0	e7.4	18	120	138	17	38	38
10	9.7	e5.4	e5.0	e6.0	e5.8	e7.2	16	113	126	17	36	35
11	9.3	e6.0	e5.0	e6.0	e5.6	e7.0	16	106	114	16	36	33
12	9.1	e6.7	e5.0	e5.5	e5.6	e7.0	16	132	103	15	33	33
13	9.0	e7.2	e4.6	e5.0	e5.6	e7.2	18	145	92	14	36	45
14	9.0	e6.8	e4.6	e5.0	e5.8	e7.8	22	157	82	18	97	46
15	9.2	e6.0	e4.6	e5.3	e6.0	e9.0	28	184	74	15	91	41
16	9.0	e6.2	e5.0	e5.3	e6.0	e11	33	231	66	13	85	37
17	10	e6.4	e4.5	e5.3	e6.0	e13	41	272	60	14	73	34
18	10	e6.7	e4.5	e6.0	e7.0	e14	50	296	65	13	65	32
19	9.6	e6.8	e5.0	e6.0	e7.0	e15	55	349	68	13	56	32
20	8.9	e6.0	e5.5	e6.0	e7.0	e16	56	375	63	13	57	29
21	8.9	e5.6	e5.5	e6.0	e7.0	e15	57	391	62	22	53	28
22	8.7	e6.0	e5.0	e6.4	e6.0	e14	57	350	58	19	45	26
23	8.7	e6.5	e5.0	e6.4	e6.0	e14	77	312	51	19	41	25
24	8.6	e6.5	e4.5	e6.4	e7.0	e14	82	303	46	16	39	23
25	8.3	e6.5	e4.5	e6.4	e7.0	e13	84	319	43	16	38	22
26	8.5	e5.0	e5.0	e6.0	e7.0	e12	63	342	40	19	40	21
27	7.1	e5.3	e5.2	e5.6	e7.0	9.6	52	325	37	34	50	20
28	6.5	e5.7	e5.5	e5.0	e6.9	12	45	312	35	21	40	19
29	e5.6	e6.0	e5.5	e5.0	---	15	43	315	32	20	40	18
30	e5.8	e6.0	e5.0	e5.0	---	14	39	316	30	19	37	18
31	e6.0	---	e5.0	5.0	---	18	---	311	---	35	47	---
TOTAL	276.7	183.6	158.5	174.6	168.3	329.6	1129	6617	3474	596	1551	1069
MEAN	8.93	6.12	5.11	5.63	6.01	10.6	37.6	213	116	19.2	50.0	35.6
MAX	11	7.2	6.0	6.4	7.0	18	84	391	315	35	97	61
MIN	5.6	4.8	4.5	5.0	4.0	6.2	16	42	30	13	33	18
AC-FT	549	364	314	346	334	654	2240	13120	6890	1180	3080	2120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1994, BY WATER YEAR (WY)

	MEAN	14.2	9.77	6.99	5.93	6.06	11.6	36.6	124	82.2	29.3	44.1	27.7
MAX	25.2	20.5	13.3	9.82	9.97	41.3	88.4	319	256	73.1	159	84.5	
(WY)	1986	1987	1985	1986	1979	1989	1985	1973	1979	1988	1991	1988	
MIN	5.73	3.72	2.90	1.72	2.43	3.40	11.2	14.2	8.25	8.43	9.23	6.93	
(WY)	1965	1990	1990	1964	1964	1964	1971	1967	1967	1989	1989	1978	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1964 - 1994

ANNUAL TOTAL	15799.8	15727.3	
ANNUAL MEAN	43.3	43.1	33.3
HIGHEST ANNUAL MEAN			65.3
LOWEST ANNUAL MEAN			11.6
HIGHEST DAILY MEAN	341	May 27	726
LOWEST DAILY MEAN	4.5	Dec 17	.90
ANNUAL SEVEN-DAY MINIMUM	4.7	Dec 12	.97
INSTANTANEOUS PEAK FLOW			937
INSTANTANEOUS PEAK STAGE			4.15
INSTANTANEOUS LOW FLOW			.90
ANNUAL RUNOFF (AC-FT)	31340	31200	24120
10 PERCENT EXCEEDS	113	104	81
50 PERCENT EXCEEDS	16	14	14
90 PERCENT EXCEEDS	5.5	5.1	5.0
e Estimated			

RIO GRANDE BASIN

08377900 RIO MORA NEAR TERRERO, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD --Water years 1963 to current year

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREP-TOCOCCI, KF AGAR (COLS. PER 100 ML) (31673)
NOV 1993												
30...	1315	6.1	130	7.2	7.0	0.0	0.30	573	10.8	98	K1	K10
MAR 1994												
30...	1330	20	114	7.2	8.0	3.0	1.2	572	8.9	88	K2	20
JUN												
02...	1215	297	51	7.2	13.5	7.5	4.3	570	9.2	103	K2	58
SEP												
08...	1045	42	86	7.7	14.5	9.5	1.0	577	8.2	95	>200	78

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD HCO3 (MG/L AS) (00453)	CAR-BONATE WATER DIS IT FIELD CO3 (MG/L AS) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD CACO3 (MG/L AS) (39086)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
NOV 1993											
30...	62	7	21	2.2	1.7	0.1	0.50	66	0	54	57
MAR 1994											
30...	55	9	19	1.9	1.6	0.1	0.50	56	0	46	50
JUN											
02...	23	4	7.8	0.82	0.70	0.1	0.50	23	0	19	21
SEP											
08...	41	5	14	1.4	1.1	0.1	0.40	44	0	36	39

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
NOV 1993											
30...	10	0.60	0.20	6.5	76	76	--	<0.010	0.058	0.020	<0.20
MAR 1994											
30...	8.5	0.70	0.20	6.3	70	67	0.040	0.030	0.070	0.020	<0.20
JUN											
02...	3.6	0.40	<0.10	4.7	36	30	--	<0.010	<0.050	0.070	<0.20
SEP											
08...	4.8	0.40	0.10	6.1	58	50	--	<0.010	<0.050	<0.010	<0.20

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
NOV 1993											
30...	<0.010	<0.010	<0.010	<10	26	<3	5	9	<1	<10	<1
MAR 1994											
30...	0.020	<0.010	<0.010	40	23	<3	65	<4	2	<10	<1
JUN											
02...	<0.010	0.020	<0.010	110	14	<3	52	<4	1	<10	<1
SEP											
08...	0.020	<0.010	<0.010	50	21	<3	25	<4	1	<10	<1

RIO GRANDE BASIN

08377900 RIO MORA NEAR TERRERO, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 1993											
30...	<1	<1.0	47	<6	0.06	0.010	0.52	<1.0	10	0.16	60
MAR 1994											
30...	<1	<1.0	42	<6	--	--	--	--	13	0.68	49
JUN											
02...	<1	<1.0	18	<6	0.02	<0.00	0.08	<1.0	18	14	54
SEP											
08...	<1	<1.0	31	<6	--	--	--	--	7	0.79	56

RIO GRANDE BASIN

08378500 PECOS RIVER NEAR PECOS, NM

LOCATION.--Lat 35°42'30", long 105°40'55", in ~~NEW~~ sec.17, T.17 N., R.12 E., San Miguel County, Hydrologic Unit
 19440001 in Santa Fe National Forest on left bank of Pecos River about 2.4 mi downstream from Holy Ghost Creek. 9.0 mi north of Pecos. and at mile 896.6
 from Indian Creek, 2.4 mi downstream from Holy Ghost Creek. 9.0 mi north of Pecos. and at mile 896.6

DRAINAGE AREA.--189 mi².

PERIOD OF RECORD.--August 1919 to current year. Monthly discharge only for some periods, published in WSP 1312.
 Published as "near Cowles" 1919-25, "at Irvins Ranch" 1926-29, and as "at Irvins Ranch near Pecos" 1930-39.

REVISED RECORDS.--WSP 898: Drainage area. WSP 1312: 1932(M).

GAGE.--Water-stage recorder. Datum of gage is 7,502.94 ft above National Geodetic Vertical Datum of 1929. Prior to
 Oct. 27, 1977, at site 30 ft upstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 75
 acres, 1959 determinations, upstream from station. Several observations of water temperature were made during
 the year. National Weather Service satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 29, 1904, was greatest since 1886, from information by local
 residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	43	e27	e20	e18	27	64	148	841	124	108	100
2	46	39	e30	e20	e17	30	71	142	850	117	106	94
3	45	36	e23	e20	e17	32	72	141	791	112	96	106
4	45	37	e24	e22	e18	32	76	145	768	106	87	116
5	43	36	e24	e22	e20	35	79	188	707	100	105	96
6	43	28	e30	e25	e24	36	69	261	636	95	106	93
7	47	35	e26	e25	e24	37	68	313	575	90	93	88
8	48	37	e23	e25	e24	36	64	319	520	87	85	78
9	45	37	e30	e27	e24	34	62	329	467	84	76	71
10	44	35	e28	e27	e24	33	58	308	425	80	72	66
11	42	34	e28	e27	e24	33	56	291	395	77	77	63
12	41	37	23	e23	e24	31	54	357	366	74	70	63
13	41	33	e30	e23	e20	38	61	407	336	72	67	99
14	41	33	e28	e23	e18	39	74	459	311	70	149	108
15	40	33	e24	e23	e18	47	93	498	285	67	155	89
16	39	32	e24	e23	e18	57	107	563	260	65	139	76
17	44	32	e27	e25	e20	67	129	648	237	64	116	70
18	46	39	e27	e25	e20	76	157	705	240	67	104	66
19	43	35	e27	e27	e24	82	175	846	284	63	93	66
20	41	32	e27	e27	27	83	179	922	261	60	96	60
21	40	e36	e24	e30	26	70	184	916	257	94	98	57
22	39	e34	e24	e30	29	67	188	825	235	91	84	54
23	39	e30	e20	e30	27	68	256	755	208	75	73	51
24	38	e27	e20	e30	28	65	268	755	189	67	76	49
25	37	23	e22	e30	31	62	269	818	176	66	79	47
26	37	25	e24	e27	30	60	209	857	164	73	72	45
27	31	e28	e26	e27	e34	50	174	802	155	104	91	43
28	37	e27	e27	e27	30	54	154	759	145	72	73	41
29	38	e27	e26	e27	---	58	150	774	138	69	71	40
30	38	e27	e26	e25	---	55	139	794	131	65	66	39
31	47	---	e24	e23	---	61	---	795	---	79	81	---
TOTAL	1292	987	793	785	658	1555	3759	16840	11353	2529	2864	2134
MEAN	41.7	32.9	25.6	25.3	23.5	50.2	125	543	378	81.6	92.4	71.1
MAX	48	43	39	39	34	83	269	922	850	124	155	116
MIN	31	23	20	20	17	27	54	141	131	60	66	39
AC-FT	2560	1960	1570	1560	1310	3080	7460	33400	22520	5020	5680	4230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1994, BY WATER YEAR (WY)

	MEAN	51.9	37.4	29.2	26.2	26.3	40.1	134	338	247	96.4	109	75.9
MAX	217	138	61.9	49.7	42.3	95.5	366	1158	950	299	402	284	
(WY)	1942	1942	1942	1942	1920	1989	1942	1941	1979	1941	1957	1931	
MIN	11.9	11.6	9.52	11.2	14.8	18.1	40.1	43.7	28.6	20.5	20.0	10.8	
(WY)	1957	1957	1957	1957	1951	1951	1951	1950	1956	1956	1956	1956	

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1920 - 1994
ANNUAL TOTAL	52403	45549	
ANNUAL MEAN	144	125	101
HIGHEST ANNUAL MEAN			267
LOWEST ANNUAL MEAN			30.7
HIGHEST DAILY MEAN	983	May 29	1980
LOWEST DAILY MEAN	20	Dec 23	6.0
ANNUAL SEVEN-DAY MINIMUM	23	Dec 21	6.7
INSTANTANEOUS PEAK FLOW		1070	4500
INSTANTANEOUS PEAK STAGE		3.85	6.20
INSTANTANEOUS LOW FLOW		14	2.0
ANNUAL RUNOFF (AC-FT)	103900	90350	73470
10 PERCENT EXCEEDS	383	312	251
50 PERCENT EXCEEDS	66	58	47
90 PERCENT EXCEEDS	27	24	21

e Estimated

RIO GRANDE BASIN

08379500 PECOS RIVER NEAR ANTON CHICO, NM

LOCATION.--Lat 35°10'44", long 105°06'30", Guadalupe County, Hydrologic Unit 13060001, in Anton Chico Grant, on right bank 2.1 mi upstream from Canon Blanco, 2.3 mi southeast of Anton Chico, 9.7 mi downstream from Tecolote Creek, and at mile 808.0.

DRAINAGE AREA.--1,050 mi², approximately (contributing area).

PERIOD OF RECORD.--April 1910 to May 1916, October 1916 to September 1924, August to December 1925, January 1927 to current year. Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS.--WSP 1342: 1951(M), 1952-53. WSP 1512: 1912-14, 1931, 1933(M), 1935-36(M), 1938(F), 1939-40, 41-42(F), 1945(M), 1946(F). WSP 1712: 1942(F).

GAGE.--Water-stage recorder. Elevation of gage is 5,130 ft above National Geodetic Vertical Datum of 1929, from river-profile map. See WSP 1732 for history of changes prior to June 21, 1951.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 4,900 acres, 1959 determinations, upstream and downstream from station. Acequia del Bodo Juan Paiz (see table below) diverts water 8 mi upstream from gage and bypasses this station on left bank; ditch flow not included in record measurements made at point opposite regular gage. A portion of this flow may be returned to the river about 5.0 mi downstream. Several observations of water temperature were made during the year. No flow at times some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--The greatest flood since 1879 occurred Sept. 29, 1904, discharge about 73,000 ft³/s, from information by a local resident.

DISCHARGE MEASUREMENTS, IN CUBIC FEET PER SECOND, OF DITCH, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date Discharge
Dec. 20 20.4

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	3.3	20	6.8	5.5	15	87	167	911	36	93	776
2	18	7.6	17	3.6	1.7	19	101	175	912	33	407	189
3	15	e5.0	19	6.7	6.8	17	148	166	1110	30	406	117
4	9.3	e4.0	17	3.2	18	11	160	168	1250	18	626	172
5	9.8	e4.0	13	4.7	28	12	162	173	856	14	e320	155
6	10	e4.0	14	8.2	22	20	176	187	744	13	e210	209
7	11	e4.5	16	7.3	14	13	149	234	651	7.9	e160	224
8	5.2	e5.0	11	3.1	19	19	151	341	593	6.4	e120	167
9	4.7	e4.0	18	2.7	15	32	133	339	546	5.5	e90	123
10	5.1	e4.0	9.5	4.8	4.8	36	120	381	491	13	86	107
11	4.0	e4.0	10	5.9	1.8	28	129	435	442	32	116	96
12	3.2	e4.0	11	5.3	.50	41	115	450	404	10	65	411
13	2.6	e5.0	10	9.4	2.2	54	103	522	355	9.2	65	128
14	19	e4.0	11	8.5	2.9	48	103	610	319	89	132	103
15	9.1	e4.0	6.0	6.2	9.0	41	122	730	304	210	1030	125
16	5.9	e4.0	6.1	5.0	18	47	131	748	299	96	294	127
17	3.8	e4.0	4.9	3.8	20	53	139	730	259	81	212	112
18	3.6	e7.0	5.0	1.1	14	64	150	755	226	e50	168	84
19	4.8	e6.0	11	4.1	16	88	186	804	351	e30	128	68
20	3.2	e3.0	9.0	3.3	19	101	219	913	336	e30	118	61
21	3.3	e4.0	8.9	1.9	17	110	227	966	347	e70	176	59
22	3.8	e3.0	8.4	.51	16	104	246	920	325	158	133	55
23	4.4	3.1	3.8	.92	15	91	260	1400	266	104	99	49
24	2.4	6.9	6.2	5.0	15	84	352	776	212	99	161	28
25	4.9	32	4.5	6.7	11	84	365	774	118	97	84	23
26	4.5	37	5.3	7.1	14	86	363	1270	98	95	149	14
27	3.9	15	12	4.7	18	98	272	2570	71	646	268	11
28	4.4	20	13	4.7	15	89	242	1270	55	566	85	7.5
29	4.5	19	8.9	9.0	---	72	199	1090	42	282	74	7.7
30	2.7	21	7.6	4.9	---	82	198	1030	42	597	98	9.8
31	3.3	---	11	6.4	---	86	---	933	---	142	181	---
TOTAL	208.4	251.4	328.1	155.53	359.20	1745	5508	22027	12935	3670.0	6354	3818.0
MEAN	6.72	8.38	10.6	5.02	12.8	56.3	184	711	431	118	205	127
MAX	19	37	20	9.4	28	110	365	2570	1250	646	1030	776
MIN	2.4	3.0	3.8	.51	.50	11	87	166	42	5.5	65	7.5
AC-FT	413	499	651	308	712	3460	10930	43690	25660	7280	12600	7570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1994, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1929	63.3	500	1942	.000	1957
1930	37.2	279	1942	.000	1957
1931	26.8	103	1942	.000	1957
1932	24.3	78.3	1942	1.82	1957
1933	23.6	78.5	1987	.92	1957
1934	58.4	249	1985	.29	1971
1935	182	854	1942	1.54	1981
1936	368	2031	1941	2.86	1971
1937	257	1150	1941	4.17	1934
1938	130	507	1941	3.81	1934
1939	197	928	1991	13.0	1964
1940	123	679	1941	.000	1956

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1929 - 1994
ANNUAL TOTAL	59507.6	57359.63	
ANNUAL MEAN	163	157	125
HIGHEST ANNUAL MEAN			489
LOWEST ANNUAL MEAN			23.4
HIGHEST DAILY MEAN	1330	2570	10000
LOWEST DAILY MEAN	2.4	.50	.00
ANNUAL SEVEN-DAY MINIMUM	3.6	2.2	.00
INSTANTANEOUS PEAK FLOW		6830	40300
INSTANTANEOUS PEAK STAGE		9.85	20.34
INSTANTANEOUS LOW FLOW		.00	
ANNUAL RUNOFF (AC-FT)	118000	113800	90380
10 PERCENT EXCEEDS	448	445	340
50 PERCENT EXCEEDS	55	36	38
90 PERCENT EXCEEDS	4.8	4.0	5.0
e Estimated			

RIO GRANDE BASIN

08380500 GALLINAS CREEK NEAR MONTEZUMA, NM

LOCATION.--Lat 35°39'07", Long 105°19'06", San Miguel County, Hydrologic Unit 13060001, in Las Vegas Grant, on left bank 2.4 mi west of Montezuma. 6.9 mi northwest of Las Vegas. and at mila 74.4.

PERIOD OF RECORD.--March to September 1915, June 1916 to current year. Monthly discharge only for some periods, published in WSP 1312. Prior to October 1964, published as Gallinas River near Montezuma.

REVISED RECORDS.--WSP 898: Drainage area. WSP 1562: 1951(P), 1952(M), 1955(P), 1957. WSP 1632: 1931-32, 1933(M), 1934, 1935(M), 1938, 1939-40(M), 1941-42, 1945, 1949-50(M).

GAGE.--Water-stage recorder. Elevation of gage is 6,880 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Sept. 21, 1934, at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 80 acres, 1959 determination, upstream from station. Several observations of water temperature were made during the year. 1916-1925 not included in statistics.

EXTREMES OUTSIDE PERIOD OF RECORD.--The greatest flood since about 1900 occurred the night of Sept. 29, 1904 (discharge not determined), from information by local residents and G. B. Monk's report on floods.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	6.5	7.1	e5.0	e3.0	e4.0	28	38	127	14	21	104
2	5.5	6.5	7.1	e6.0	e4.0	e4.0	37	39	102	13	30	61
3	5.5	6.5	7.1	e5.5	e5.0	e4.0	37	39	209	12	41	51
4	5.2	6.1	6.4	e5.0	e5.5	e4.5	38	39	146	11	35	45
5	5.1	5.9	7.1	e5.5	e4.0	e4.5	38	43	93	10	34	37
6	5.2	5.4	7.1	e6.0	e3.5	e4.5	35	59	79	10	37	39
7	5.0	4.8	4.3	e6.5	e5.5	e4.5	37	72	68	9.8	30	54
8	5.8	4.5	e4.0	e5.0	e6.0	e4.0	35	68	59	10	25	51
9	5.5	2.0	e4.5	e4.0	e4.0	e4.0	33	69	52	9.9	22	40
10	5.4	4.1	e4.5	e4.0	e4.0	4.4	31	85	47	9.5	19	34
11	5.2	3.5	e4.0	e4.0	e4.0	5.2	29	116	41	8.9	20	29
12	5.0	4.5	e4.5	e3.5	e4.0	5.6	28	176	37	8.3	19	26
13	4.9	4.5	e5.0	e4.0	e4.5	e4.8	32	140	35	9.0	18	25
14	5.0	4.5	e4.5	e4.0	e5.0	e4.8	36	123	29	9.6	32	26
15	5.0	4.5	e5.0	e4.5	e5.5	18	42	107	30	10	58	22
16	4.8	4.6	e4.5	e5.0	e6.0	21	45	108	28	14	52	20
17	4.9	5.4	e4.0	e4.0	e6.5	27	52	109	25	12	37	18
18	5.8	5.4	e4.0	e4.0	e5.5	34	58	111	24	11	32	17
19	5.9	5.4	e4.5	e4.0	e4.5	33	58	185	31	9.6	25	16
20	5.9	5.4	e6.0	e4.0	e4.5	31	60	202	30	11	23	14
21	5.5	5.4	e6.0	e4.0	e4.0	26	59	159	29	14	31	13
22	5.4	5.4	e5.0	e4.0	e4.0	23	56	127	31	28	25	13
23	5.1	5.4	e4.0	e4.0	e4.0	21	69	104	24	20	21	12
24	5.0	6.6	e4.5	e5.0	e4.0	18	70	96	23	15	19	12
25	5.1	6.6	e5.0	e4.5	e4.5	16	67	143	20	14	25	11
26	5.3	4.8	e5.5	e4.0	e4.5	16	53	366	18	23	31	11
27	5.4	7.6	e5.0	e4.0	e4.5	14	45	555	17	25	25	11
28	5.2	6.1	e5.0	e4.5	e4.5	14	41	301	16	21	22	10
29	5.9	4.8	e5.0	e4.0	---	16	40	208	15	34	20	9.6
30	5.5	7.1	e5.0	e4.0	---	17	37	157	14	23	21	9.6
31	6.4	---	e5.5	e3.5	---	21	---	127	---	18	69	---
TOTAL	166.0	159.8	160.7	139.0	128.5	428.8	1326	4271	1499	447.6	919	841.2
MEAN	5.35	5.33	5.18	4.48	4.59	13.8	44.2	138	50.0	14.4	29.6	28.0
MAX	6.4	7.6	7.1	6.5	6.5	34	70	555	209	34	69	104
MIN	4.8	2.0	4.0	3.5	3.0	4.0	28	38	14	8.3	18	9.6
AC-FT	329	317	319	276	255	851	2630	8470	2970	888	1820	1670

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 1994, BY WATER YEAR (WY)

	MEAN	12.6	9.23	6.53	5.45	5.82	12.1	35.9	54.6	21.8	16.0	31.3	21.2
MAX	108	57.5	21.3	13.7	20.5	64.7	184	380	118	105	225	185	
(WY)	1942	1942	1958	1989	1987	1987	1958	1941	1979	1991	1991	1991	
MIN	38	49	80	1.83	1.49	2.36	3.11	1.96	74	1.24	1.08	40	
(WY)	1957	1957	1957	1957	1957	1955	1967	1967	1956	1956	1934	1956	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1926 - 1994

ANNUAL TOTAL	7177.7	10486.6	
ANNUAL MEAN	19.7	28.7	
HIGHEST ANNUAL MEAN			19.5
LOWEST ANNUAL MEAN			80.7
HIGHEST DAILY MEAN	96	May 22	1580
LOWEST DAILY MEAN	2.0	Nov 9	2.53
ANNUAL SEVEN-DAY MINIMUM	3.9	Jul 6	2.20
INSTANTANEOUS PEAK FLOW			2.21
INSTANTANEOUS PEAK STAGE			7120
INSTANTANEOUS LOW FLOW			9.70
ANNUAL RUNOFF (AC-FT)	14240	20800	14110
10 PERCENT EXCEEDS	46	67	44
50 PERCENT EXCEEDS	11	11	7.5
90 PERCENT EXCEEDS	4.9	4.0	2.7
e Estimated			

RIO GRANDE BASIN

08382600 PECOS RIVER ABOVE CANON DEL UTA NEAR COLONIAS, NM

LOCATION.--Lat 35°05'29", long 104°48'00", in T.10 N., R.20 E., Guadalupe County, Hydrologic Unit 13060001, in Anton Chico Grant, on right bank 0.4 mi upstream from Canon del Uta 2.9 mi southeast of Colonias and at mile 775.0.

PERIOD OF RECORD.--January 1976 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,800 ft above National Geodetic Vertical Datum of 1929, from U.S. Army Corps of Engineers plan and profile map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions and ground-water withdrawals for irrigation for about 11,800 acres, 1959 determination, upstream from station. Several observations of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemeter at station. No flow many days most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	15	5.3	1.1	1.5	3.3	8.6	123	947	22	53	943
2	8.1	6.8	6.0	1.1	1.7	2.9	8.8	86	958	18	668	572
3	9.2	6.0	6.3	1.1	1.7	2.7	19	81	1320	11	458	135
4	9.2	5.9	5.9	1.1	1.7	2.8	59	71	1200	11	600	104
5	9.6	6.1	5.6	1.0	1.8	2.8	71	55	997	9.6	278	107
6	10	5.3	6.1	.89	1.8	2.7	93	57	846	7.5	130	202
7	9.5	4.7	6.0	.89	2.1	2.8	92	114	720	7.4	71	229
8	9.2	5.0	5.9	.76	2.0	3.0	93	217	623	7.7	36	129
9	9.2	5.9	5.4	.82	2.1	2.7	86	243	540	8.3	19	98
10	8.9	5.9	6.0	.85	2.1	3.0	67	318	478	8.8	11	43
11	8.1	7.1	6.1	.75	2.2	2.9	70	426	425	9.5	57	31
12	8.1	13	4.8	.86	2.4	2.6	64	456	387	11	30	57
13	8.8	5.1	4.8	.77	2.5	2.3	41	493	310	11	5.1	519
14	9.2	5.0	5.3	.87	2.9	2.6	43	583	246	12	4.1	62
15	8.7	5.3	5.0	.86	3.3	2.7	50	722	206	287	511	25
16	8.3	5.5	4.3	.86	3.4	2.7	52	782	202	232	470	47
17	7.7	5.6	4.9	.91	3.4	2.7	101	760	154	4.9	188	34
18	7.9	5.3	4.7	1.1	2.9	3.4	123	774	126	4.7	100	11
19	7.8	5.3	4.5	1.0	2.5	3.4	127	824	261	4.7	50	2.4
20	7.5	5.3	4.2	1.1	2.4	3.4	152	975	235	5.9	18	1.8
21	7.5	5.7	4.1	1.1	2.6	6.7	177	1030	239	387	5.6	1.7
22	7.5	5.3	3.4	1.1	2.4	17	248	1020	284	40	56	1.8
23	7.5	5.3	2.7	1.3	2.1	11	263	2510	220	97	9.0	1.7
24	7.5	5.3	1.7	1.2	1.9	5.6	250	1710	172	15	2.0	1.7
25	7.5	5.3	1.6	1.2	2.8	5.4	231	732	90	11	55	1.6
26	7.5	4.9	1.5	.90	3.0	6.8	266	1070	43	10	1.0	1.6
27	6.8	4.7	1.5	1.2	2.9	15	214	1580	31	444	165	1.6
28	6.9	5.3	1.5	1.2	3.1	17	182	1260	24	1000	27	1.7
29	7.1	5.3	1.5	1.4	---	8.9	182	962	21	926	13	1.7
30	6.8	5.3	1.4	1.6	---	6.4	137	981	23	907	4.1	1.8
31	6.7	---	1.2	1.4	---	8.7	---	965	---	204	351	---
TOTAL	252.4	181.5	129.2	32.29	67.2	165.9	3570.4	21980	12328	4735.0	4445.9	3369.1
MEAN	8.14	6.05	4.17	1.04	2.40	5.35	119	709	411	153	143	112
MAX	10	15	6.3	1.6	3.4	17	266	2510	1320	1000	668	943
MIN	6.7	4.7	1.2	.75	1.5	2.3	8.6	55	21	4.7	1.0	1.6
AC-FT	501	360	256	64	133	329	7080	43600	24450	9390	8820	6680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1994, BY WATER YEAR (WY)

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
MEAN	22.2	16.6	6.15	3.79	6.05	32.5	113	322	250	105	175	95.4							
MAX	139	137	42.0	19.0	73.4	192	382	736	1001	418	1062	660							
(WY)	1986	1987	1987	1987	1987	1985	1987	1979	1979	1991	1991	1991							
MIN	.000	.000	.000	.000	.000	.000	.000	.26	2.15	3.17	7.60	.000							
(WY)	1978	1977	1977	1976	1976	1976	1976	1981	1977	1980	1978	1978							

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1976 - 1994

	1993	1994	1976-1994
ANNUAL TOTAL	50574.5	51256.89	
ANNUAL MEAN	139	140	99.8
HIGHEST ANNUAL MEAN			245
LOWEST ANNUAL MEAN			13.3
HIGHEST DAILY MEAN	1570	2510	2960
LOWEST DAILY MEAN	1.2	.75	.00
ANNUAL SEVEN-DAY MINIMUM	1.5	.81	.00
INSTANTANEOUS PEAK FLOW		3800	12400
INSTANTANEOUS PEAK STAGE		9.12	10.36
INSTANTANEOUS LOW FLOW		.25	.00
ANNUAL RUNOFF (AC-FT)	100300	101700	72320
10 PERCENT EXCEEDS	415	500	317
50 PERCENT EXCEEDS	31	7.9	6.6
90 PERCENT EXCEEDS	3.1	1.5	.00

o Estimated

a-From rating curve extended above 1,200 ft³/s, on basis of step-backwater analysis of channel.

RIO GRANDE BASIN

08382650 PECOS RIVER ABOVE SANTA ROSA LAKE, NM

(National stream-quality accounting network station)

LOCATION.--Lat 35°03'35", long 104°45'41", in NE¼SE¼SE¼ sec.25, T.10 N., R.20 E., Guadalupe County, Hydrologic Unit 13060001, at south boundary Preston Beck Grant, on left bank 1.6 mi upstream from River Ranch, 5.8 mi southeast of Colonias, 9.1 mi northwest of Santa Rosa, and at mile 770.8.

DRAINAGE AREA.--2,340 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1976 to current year. Prior to October 1979, published as "above Los Esteros Reservoir."

GAGE.--Water-stage recorder. Elevation of gage is 4,760 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor. Diversions and ground-water withdrawals for irrigation of about 11,800 acres, 1959 determination, upstream from station. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	31	26	25	23	21	45	171	928	40	213	751
2	41	31	26	25	23	22	43	138	909	39	649	622
3	36	31	26	26	22	21	55	142	1390	48	569	233
4	38	30	25	25	22	21	86	132	1090	40	652	165
5	40	29	26	24	22	21	92	115	852	37	403	170
6	37	29	25	23	22	21	99	114	876	30	278	263
7	36	29	26	24	22	21	104	160	724	35	203	249
8	35	28	25	24	22	25	87	248	674	37	169	204
9	34	28	26	24	22	22	e80	274	601	39	129	184
10	33	29	26	25	23	22	e75	319	539	40	107	146
11	32	31	27	25	22	22	79	439	490	55	147	123
12	32	29	28	24	23	24	82	478	410	55	160	104
13	33	30	28	23	23	22	71	514	335	52	90	493
14	33	27	28	23	23	22	64	636	286	53	99	143
15	33	26	27	23	22	22	62	776	243	287	508	129
16	33	27	26	24	22	21	70	809	247	266	538	157
17	33	26	27	23	22	20	77	788	247	61	301	150
18	33	26	27	24	22	20	80	828	229	56	213	121
19	33	25	27	23	22	20	97	858	313	62	166	76
20	32	26	27	23	21	19	133	990	292	66	130	53
21	32	25	28	23	21	38	155	1060	281	398	106	46
22	32	26	27	23	21	55	167	1050	269	186	166	61
23	32	26	26	24	20	52	189	1250	195	246	139	66
24	32	26	27	23	20	45	230	842	158	144	128	74
25	33	26	27	23	21	40	264	851	107	116	156	73
26	33	25	26	22	20	45	286	1370	65	100	70	72
27	33	26	26	23	20	58	260	1880	51	408	241	70
28	33	26	26	22	20	60	225	1210	45	877	156	43
29	35	26	26	23	---	52	206	1090	49	980	111	39
30	35	26	25	23	---	41	208	969	58	915	130	38
31	32	---	26	23	---	46	---	928	---	365	351	---
TOTAL	1061	826	819	732	608	961	3771	21429	12953	6133	7478	5118
MEAN	34.2	27.5	26.4	23.6	21.7	31.0	126	691	432	198	241	171
MAX	42	31	28	26	23	60	286	1880	1390	980	652	751
MIN	32	25	25	22	20	19	43	114	45	30	70	38
AC-FT	2100	1640	1620	1450	1210	1910	7480	42500	25690	12160	14830	10150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1994, BY WATER YEAR (WY)

	MEAN	34.0	23.3	21.1	22.8	48.0	126	339	281	133	225	129
MAX	147	152	68.7	46.1	106	207	415	768	945	440	1077	683
(WY)	1986	1987	1987	1987	1987	1985	1987	1985	1979	1991	1991	1991
MIN	6.50	9.53	7.77	7.74	6.40	5.69	4.99	7.93	8.87	18.6	16.1	6.12
(WY)	1979	1982	1978	1978	1978	1978	1978	1981	1977	1980	1978	1978

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1976 - 1994
ANNUAL TOTAL	64569	61889	
ANNUAL MEAN	177	170	123
HIGHEST ANNUAL MEAN			265
LOWEST ANNUAL MEAN			26.1
HIGHEST DAILY MEAN	2040	1880	3210
LOWEST DAILY MEAN	21	19	4.5
ANNUAL SEVEN-DAY MINIMUM	22	20	4.7
INSTANTANEOUS PEAK FLOW		3630	a12300
INSTANTANEOUS PEAK STAGE		11.86	b17.70
INSTANTANEOUS LOW FLOW		18	2.9
ANNUAL RUNOFF (AC-FT)	128100	122800	89160
10 PERCENT EXCEEDS	477	538	344
50 PERCENT EXCEEDS	47	41	28
90 PERCENT EXCEEDS	23	22	8.7

a- Estimated

a-From rating curve extended above 1,500 ft³/s, on basis of slope-area measurement of peak flow.

b-From floodmarks.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976, 1981 to current year.

FOURNISHED UNDER THE NATIONAL ARCHIVES RELEASE ACT OF 1964

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
DEC 1993										
15...	1200	28	920	8.3	5.0	7.0	--	636	--	--
JAN 1994										<10
12...	1015	24	1040	8.1	4.0	6.0	--	645	9.9	94
MAR										
16...	1100	22	940	8.1	14.5	14.0	--	642	8.6	100
MAY										
11...	1645	412	250	8.0	23.0	19.0	--	--	--	--
JUL										
06...	1015	30	E779	8.1	27.0	15.0	1.0	640	8.2	--
AUG										
02...	1200	558	220	7.7	29.0	20.5	--	645	--	--

[illegible][illegible]

RIO GRANDE BASIN

08382650 PECOS RIVER ABOVE SANTA ROSA LAKE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)
DEC 1993										
15...	<1	30	<1	<1.0	<1	<1	<1	<1	<3	<1
JAN 1994										
12...	--	--	--	--	--	--	--	--	--	--
MAR										
16...	--	40	--	--	--	--	--	--	<3	--
MAY										
11...	--	20	--	--	--	--	--	--	50	--
JUL										
06...	--	40	--	--	--	--	--	--	<3	--
AUG										
02...	--	--	--	--	--	--	--	--	--	--

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC 1993										
15...	<1	<0.10	<0.1	1	1	<10	<3	25	1.9	46
JAN 1994										
12...	--	--	--	--	--	--	--	78	5.1	35
MAR										
16...	--	--	--	--	--	--	--	51	3.0	58
MAY										
11...	--	--	--	--	--	--	--	--	--	--
JUL										
06...	--	--	--	--	--	--	--	44	3.6	60
AUG										
02...	--	--	--	--	--	--	--	4320	6510	98

RIO GRANDE BASIN

08382730 LOS ESTEROS CREEK ABOVE SANTA ROSA LAKE, NM

LOCATION.--Lat 35°05'42", Long 104°39'49", Guadalupe County, Hydrologic Unit 13060001, in Preston Beck Grant, on left bank 3.7 mi upstream from mouth. 4.9 mi northeast of Santa Rosa Dam and 10.4 mi northeast of Santa Rosa mouth atecos River mile 763.0.

WATERGAGE NAME.--"05.0 MI".

PERIOD OF RECORD.--July 1973 to current year. Prior to October 1979, published as "above Los Esteros Reservoir."

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 4,770 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair. No known diversions or ground-water withdrawals for irrigation upstream from station. Several observations of water temperature were made during the year. No flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.12	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	1.1
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.11
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
11	.00	.00	.00	.00	.00	.00	.00	.08	.03	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.30	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.82	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.37	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.1	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.62	.24	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.75	e27	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	e.14	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.20	.00	.00	e.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.144	.00	.00	e.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.171	.00	.00	e.00	.00
28	.00	.00	.00	.00	.00	.00	.00	2.8	.00	.00	e.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.39	.00	.00	e.00	.00
30	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	e17	.00
31	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	e.20	.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	338.75	58.76	121.80	68.34	1.22
MEAN	.000	.000	.000	.000	.000	.000	.000	10.9	1.96	3.93	2.20	.041
MAX	.00	.00	.00	.00	.00	.00	.00	171	54	82	27	1.1
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	672	117	242	136	2.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1994, BY WATER YEAR (WY)

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984
MEAN	.36	.21	.001	.004	.19	.004	.077	.77	2.80	3.24	7.04	2.19
MAX	5.20	2.26	.007	.028	3.74	.045	1.57	10.0	20.4	33.7	48.1	10.1
(WY)	1986	1979	1979	1987	1987	1987	1985	1994	1988	1976	1977	1988
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1974	1974	1974	1974	1974	1974	1974	1974	1974	1980	1979	1973

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1973 - 1994
ANNUAL TOTAL	1048.93	588.87	
ANNUAL MEAN	2.87	1.61	1.46
HIGHEST ANNUAL MEAN			5.41
LOWEST ANNUAL MEAN			.021
HIGHEST DAILY MEAN	532 Aug 4	171 May 27	753 Jul 24 1976
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Jul 27 1973
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00 Aug 4 1973
INSTANTANEOUS PEAK FLOW		1300 Jul 15	a9200 Aug 3 1993
INSTANTANEOUS PEAK STAGE		6.31 Jul 15	13.22 Aug 3 1993
INSTANTANEOUS LOW FLOW		.00 Oct 1	.00 Jul 1 1973
ANNUAL RUNOFF (AC-FT)	2080	1170	1050
10 PERCENT EXCEEDS	.02	.00	.04
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

a-From rating curve extended 70 ft³/s, on basis of slope-area measurements at gage heights, 6.5 ft and 9.3 ft.

RIO GRANDE BASIN

08382810 SANTA ROSA LAKE NEAR SANTA ROSA, NM

LOCATION.--Lat 35°01'47", long 104°41'30", Guadalupe County, Hydrologic Unit 13060001, in Jose Perea Grant, near outlet gates of Santa Rosa Dam on Pecos River, approximately 7.0 mi north of Santa Rosa, and at mile 757.2.

DRAINAGE AREA.--2,430 mi², approximately.

PERIOD OF RECORDS.--April 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by earth and rockfill dam on Pecos River. Storage began on Apr. 22, 1980. Capacity, 439,900 acre-ft, from capacity table effective October 1990, between elevations 4,630.0 ft, invert of outlet structure, and 4,797.0 ft, crest of spillway. Capacity by original survey was 447,100 acre-ft. No dead storage. Lake was created primarily for flood, irrigation, and sediment control. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Records provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 120,481 acre-ft, May 8, 1987, elevation, 4,749.71 ft; no storage for many days, July-Sept., 1980 and June-Aug., 1981.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 101,910 acre-ft, June 4, elevation, 4,746.31 ft; minimum, 71,900 acre-ft, Aug. 29, elevation, 4,737.40 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93790	93640	94460	95000	95830	80510	77730	83840	98780	99480	98590	74610
2	93750	93610	94660	95070	95830	78680	77700	84000	99220	99480	98190	75820
3	93750	93640	94660	95110	95830	77130	77800	84270	100970	99440	97450	76260
4	93820	93640	94660	95140	95930	76160	77800	84530	101910	99290	97060	76510
5	93890	93570	94660	95180	95930	76230	77890	84700	101870	99250	96180	76760
6	93890	93540	94660	95180	95970	76230	78140	84900	100850	99180	95140	77130
7	93860	93540	94660	95180	96000	76290	78370	85060	99590	99110	94070	77800
8	93860	93570	94660	95180	96040	76380	78530	85500	99740	99000	92660	78110
9	93820	93610	94530	95180	96000	76410	78680	86030	100110	98960	91290	78300
10	93790	93610	94530	95250	96000	76440	78840	86910	100070	99000	89970	78370
11	93820	93610	94570	95250	96040	76510	78940	87720	99920	98890	88640	78460
12	93820	93640	94570	95250	96040	76600	79100	88600	99700	98960	87510	78490
13	93790	93790	94570	95280	96080	76660	79160	89600	99630	98960	86170	79420
14	93820	93860	94610	95320	95680	76730	79230	90700	99630	98850	84600	79640
15	93790	93970	94610	95360	94960	76730	79320	92130	99630	99360	84100	79770
16	93790	94040	94610	95390	94290	76820	79450	93470	99740	99880	83670	79900
17	93750	94110	94610	95430	93540	76820	79480	94860	99850	99920	82720	80030
18	93720	94110	94640	95470	92800	76850	79640	96080	99880	99920	81610	80090
19	93720	94140	94680	95470	91990	76850	79740	96800	100140	99920	80380	80130
20	93720	94140	94680	95500	91290	76790	80000	97160	100220	99850	79000	80130
21	93750	94180	94680	95610	90560	76790	80290	97380	100030	100590	77800	80160
22	93720	94250	94680	95680	89800	76820	80350	97530	99880	100520	76760	80190
23	93750	94250	94680	95680	88740	76850	80670	98480	99700	100030	75790	80220
24	93790	94210	94710	95680	87850	76850	80960	97750	99700	99550	74740	80250
25	93790	94180	94710	95680	86640	76910	81290	97200	99740	98890	73720	80250
26	93680	94290	94860	95680	85300	77010	81940	97750	99660	98220	72840	80220
27	93640	94320	94860	95680	84000	77100	82430	100930	99590	98000	72570	80190
28	93680	94320	94860	95720	82400	77170	82890	101450	99440	99030	72150	80130
29	93640	94390	94890	95750	---	77260	83180	101340	99480	100440	71900	80090
30	93640	94460	94930	95750	---	77350	83540	100220	99480	100890	72540	80090
31	93640	---	95000	95790	---	77610	---	99630	---	100140	73080	---
MAX	93890	94460	95000	95790	96080	80510	83540	101450	101910	100890	98590	80250
MIN	93640	93540	94460	95000	82400	76160	77700	83840	98780	98000	71900	74610
(†)	4744.05	4744.28	4744.43	4744.65	4740.74	4739.25	4741.09	4745.70	4745.66	4745.84	4737.79	4740.02
(††)	-250	+820	+540	+790	-13390	-4790	+5930	+16090	-150	+660	-27060	+7010

CAL YR 1993 MAX 101530 MIN 80770 (††) +12460
WTR YR 1994 MAX 101910 MIN 71900 (††) -15150

(†) ELEVATION, IN FEET, AT END OF MONTH.

(††) CHANGE IN CONTENTS, IN ACRE-FEET.

RIO GRANDE BASIN

08382830 PECOS RIVER BELOW SANTA ROSA DAM, NM

LOCATION.--Lat 35°01'27", long 104°41'20", Guadalupe County, Hydrologic Unit 13060001, in Jose Perea Grant, on right bank 0.2 mi downstream from Santa Rosa Dam, 5.7 mi north of Santa Rosa, and at mile 757.0.

DRAINAGE AREA.--2,430 mi², approximately.

PERIOD OF RECORD.--January 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,640 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 31, 1980, at datum about 1.2 ft higher. Prior to Mar. 26, 1982, at site 195 ft upstream at datum 2.36 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow completely regulated by Santa Rosa Lake (08382810) 0.2 mi upstream since April 1980. Diversions and ground-water withdrawals for irrigation of about 12,000 acres, 1959 determination, upstream from station. Several observations of water temperatures were made during the year. U.S. Army Corps of Engineers satellite telemeter at station. No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.59	.26	e.18	.37	.61	959	.31	.21	1090	.43	1030	.21
2	.59	.26	e.18	.37	.64	986	.31	.21	902	.43	927	.24
3	.45	.28	e.18	.44	.68	747	.31	.21	944	.43	721	.26
4	.42	.31	.18	.59	.69	503	.31	.21	1110	.43	721	.37
5	.52	.31	.17	.50	.69	1.3	.27	.29	1230	.43	725	.40
6	.43	.31	.17	.43	.71	1.3	.26	.31	1330	.43	724	.48
7	.21	.31	.19	.43	.72	1.2	.26	.31	966	.42	723	.59
8	.21	.20	.23	.43	.69	1.0	.25	.31	464	.31	722	.54
9	.21	.03	.23	.47	.67	1.0	.21	.31	425	.34	722	.51
10	.17	.05	.23	.28	.69	1.0	.20	.38	506	.37	721	.52
11	.17	.16	.28	.22	.68	1.0	.17	.40	457	.37	718	.59
12	.14	.21	.31	.34	.68	1.0	.10	.37	410	.37	719	.59
13	.12	.25	.31	.41	.69	1.0	.12	.37	296	.37	718	.59
14	.17	.31	.31	.48	208	.88	.17	.37	185	.37	710	.59
15	.17	.31	.31	.51	374	.72	.17	.37	130	.40	711	.72
16	.17	.31	.31	.51	374	.68	.17	.37	85	.37	714	1.0
17	.17	.44	.31	.49	374	.77	.17	.37	85	.37	715	1.0
18	.17	.51	.33	.43	374	.83	.17	.75	86	.37	715	1.0
19	.17	.51	.45	.46	372	.68	.17	407	86	.37	713	1.0
20	.17	.51	.51	.50	371	.60	.17	721	207	.37	708	.98
21	.23	.51	.51	.49	370	.58	.17	849	317	.52	712	1.0
22	.23	.32	.51	.55	368	.51	.17	847	281	200	651	.84
23	.21	.13	.47	.61	453	.51	.17	1020	229	304	598	.78
24	.21	.17	e.45	.61	500	.51	.17	1130	130	303	598	.77
25	.21	.17	.43	.62	601	.47	.17	1120	61	302	597	.56
26	.21	e.17	.47	.55	674	.43	.17	1120	61	301	408	.59
27	.21	e.17	.51	.60	675	.43	.19	1120	50	301	295	.59
28	.25	e.17	.32	.59	856	.43	.21	1290	14	295	297	.59
29	.26	e.17	.19	.61	---	.43	.21	1420	.33	554	153	.59
30	.26	e.18	.25	.59	---	.42	.21	1600	.39	848	.21	.60
31	.26	---	.32	.59	---	.31	---	1460	---	849	.21	---
TOTAL	7.96	8.00	9.80	15.07	6952.84	3214.99	6.11	14184.37	12137.72	4316.75	19186.42	19.09
MEAN	.26	.27	.32	.49	.248	.104	.20	458	405	139	619	.64
MAX	.59	.51	.51	.62	856	986	.31	1600	1330	849	1030	1.0
MIN	.12	.03	.17	.22	.61	.31	.10	.21	.33	.31	.21	.21
AC-FT	16	16	19	30	13790	6380	12	28130	24080	8560	38060	38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1994, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
MEAN	17.5	14.6	10.1	6.92	25.9	25.0	115	311	206	190	205	141			
MAX	112	145	59.0	28.9	248	197	655	672	509	561	619	649			
(WY)	1993	1987	1987	1986	1994	1987	1989	1989	1987	1983	1994	1988			
MIN	.018	.041	.081	.068	.059	.064	.072	.98	2.05	.047	.069	.040			
(WY)	1990	1990	1990	1990	1990	1990	1983	1982	1984	1989	1989	1989			

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1980 - 1994

ANNUAL TOTAL	53106.96	60059.12	
ANNUAL MEAN	145	165	110
HIGHEST ANNUAL MEAN			185
LOWEST ANNUAL MEAN			35.8
HIGHEST DAILY MEAN	1020	1600	1910
LOWEST DAILY MEAN	.03	.03	.00
ANNUAL SEVEN-DAY MINIMUM	.04	.15	.00
ANNUAL RUNOFF (AC-FT)	105300	119100	79940
10 PERCENT EXCEEDS	520	718	449
50 PERCENT EXCEEDS	.49	.50	1.4
90 PERCENT EXCEEDS	.08	.17	.05

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1905-07, 1959 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
DEC 1993												
14...	1200	14	2680	7.9	13.5	8.5	644	11.4	117	1700	580	69
JAN 1994												
11...	1600	9.2	2680	7.8	14.0	11.0	647	9.8	106	--	--	--
MAR												
17...	0830	9.2	2360	7.7	16.0	9.5	643	8.6	90	1300	440	55
MAY												
12...	0915	12	2470	7.7	17.5	16.0	--	--	--	1600	540	64
JUL												
07...	1630	6.5	2570	7.6	36.0	31.0	644	7.8	126	1700	570	68
AUG												
03...	1300	700	360	7.8	32.5	28.0	649	9.0	136	--	--	--

[illegible]

RIO GRANDE BASIN

08383500 PECOS RIVER NEAR PUERTO DE LUNA, NM
(Surveillance network station)

LOCATION.--Lat 34°43'48", Long 104°31'28", in NEKSE\NWA sec.20, T.6 N., R.23 E., Guadalupe County, Hydrologic Unit 13060001, on left bank 9.0 mi southeast of Puerto de Luna. 17.5 mi upstream from Summer Dam and at mile 710.5 downstream from Summer Dam, approximately (contributing area).

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--April 1938 to current year.

REVISED RECORDS.--WSP 1512: 1939.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 4,311.34 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 15, 1954, at datum 1.0 ft higher.

REMARKS.--Water-discharge records good, except for estimated daily discharges, which are poor. Flow regulated by Santa Rosa Lake (station 08382810) 37.7 mi upstream since April 1980. Diversions for irrigation of about 12,500 acres, 1959 determination, upstream from station. Discharge represents inflow to Lake Summer. Several observations of water temperature were made during the year. U.S. Bureau of Reclamation satellite telemeter at station.

AVERAGE DISCHARGE.--41 years (water years 1939-79), 209 ft³/s, 151,400 acre-ft/yr, prior to completion of Santa Rosa Dam.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood since at least 1886 occurred June 2, 1937, when peak at Santa Rosa was 55,200 ft³/s, and peak inflow to Lake Summer was about 75,000 ft³/s. Flood of July 24, 1895, was reported as "highest in 10 years." Other major floods occurred on June 9, 1903, Sept. 30, 1904, and May 1, 1914.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	87	84	85	98	990	83	e72	1350	68	1020	507
2	66	83	83	84	95	1000	79	e72	1090	63	1310	181
3	66	82	84	84	91	1020	70	e73	977	63	811	129
4	67	81	84	83	90	665	70	e73	1250	63	753	e120
5	68	80	86	83	89	490	73	e74	1270	62	756	e109
6	68	82	85	82	88	282	73	e72	1480	60	754	e98
7	71	82	86	82	89	e200	72	e73	1420	59	797	226
8	71	83	86	81	89	e150	75	e73	759	63	749	86
9	71	82	86	82	88	e122	73	e74	470	87	749	72
10	73	81	85	82	89	e120	76	e78	604	77	750	71
11	75	83	87	83	89	e118	73	e96	597	63	753	70
12	76	85	89	84	89	e111	71	e110	507	66	748	70
13	75	88	88	86	86	e105	e71	105	487	77	749	68
14	77	93	88	84	87	e101	69	88	310	238	749	74
15	78	83	88	85	338	e98	71	82	256	233	751	69
16	77	83	88	88	448	93	70	81	190	85	753	65
17	78	79	88	90	453	91	67	76	163	59	752	68
18	79	79	88	87	455	88	69	75	159	57	749	66
19	85	79	89	87	456	85	71	128	163	57	752	73
20	86	79	88	86	453	82	70	510	351	54	748	71
21	82	79	88	86	454	81	73	789	365	62	850	63
22	87	81	89	87	458	80	69	816	384	78	1040	57
23	86	81	90	87	467	75	69	879	337	283	663	61
24	84	81	106	87	569	74	71	1110	290	325	641	63
25	85	83	99	88	578	74	e70	1160	196	330	686	65
26	87	87	86	90	710	73	e71	1470	140	331	639	66
27	91	83	85	91	714	86	e71	1320	133	330	382	63
28	84	81	86	87	754	84	e71	1230	121	338	359	64
29	80	83	86	88	---	85	e72	1480	97	355	351	64
30	82	83	86	88	---	83	e72	1530	80	754	203	65
31	81	---	86	94	---	84	---	1660	---	966	119	---
TOTAL	2400	2476	2717	2661	8564	6890	2155	15529	15996	5806	21886	2924
MEAN	77.4	82.5	87.6	85.8	306	222	71.8	501	533	187	706	97.5
MAX	91	93	106	94	754	1020	83	1660	1480	966	1310	507
MIN	64	79	83	81	86	73	67	72	80	54	119	57
AC-FT	4760	4910	5390	5280	16990	13670	4270	30800	31730	11520	43410	5800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1994, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
MEAN	107	99.1	96.5	92.8	106	106	184	379	291	293	313	273			
MAX	225	232	147	123	306	265	685	744	576	725	706	948			
(WY)	1986	1987	1987	1987	1994	1987	1989	1989	1987	1983	1994	1988			
MIN	73.1	79.5	73.5	80.9	76.7	73.5	67.9	64.0	66.1	72.9	117	66.4			
(WY)	1988	1983	1991	1993	1984	1989	1984	1982	1991	1989	1989	1990			

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1980 - 1994
ANNUAL TOTAL	84549	90004	
ANNUAL MEAN	232	247	196
HIGHEST ANNUAL MEAN			265
LOWEST ANNUAL MEAN			122
HIGHEST DAILY MEAN	1440	1660	3510
LOWEST DAILY MEAN	58	54	39
ANNUAL SEVEN-DAY MINIMUM	59	62	43
INSTANTANEOUS PEAK FLOW		3050	a48600
INSTANTANEOUS PEAK STAGE		5.12	17.00
INSTANTANEOUS LOW FLOW		46	11
ANNUAL RUNOFF (AC-FT)	167700	178500	141700
10 PERCENT EXCEEDS	581	752	533
50 PERCENT EXCEEDS	88	86	86
90 PERCENT EXCEEDS	77	69	67

e Estimated

a-From rating curve extended above 7,400 ft³/s, on basis of flow "at Santa Rosa".

RIO GRANDE BASIN

08383500 PECOS RIVER NEAR PUERTO DE LUNA, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1937-66, 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML) (31673)
DEC 1993												
14...	1300	89	3100	8.2	--	1.0	660	12.7	104	<10	2	4
MAR 1994												
15...	1445	97	2880	8.1	17.5	10.0	654	10.3	108	32	<3	K1
MAY												
12...	1545	105	2740	8.5	14.5	15.0	--	--	--	18	>600	1000
AUG												
04...	0845	731	690	7.9	23.5	20.0	657	7.2	92	19	>600	>2500

DATE	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CAC03 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CAC03) (39086)	ALKA-LINITY LAB (MG/L AS CAC03) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
DEC 1993												
14...	1800	1700	600	71	100	1	1.9	145	5	127	112	1500
MAR 1994												
15...	--	--	--	72	93	--	2.6	154	0	126	113	1500
MAY												
12...	1800	1600	560	90	120	1	3.2	161	--	132	130	1500
AUG												
04...	330	230	110	14	18	0.4	1.9	123	0	101	105	230

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ARSENIC TOTAL (UG/L AS AS) (01002)
DEC 1993												
14...	140	0.70	13	2500	<0.010	<0.050	0.090	<0.20	<0.010	<0.010	0.7	<1
MAR 1994												
15...	130	0.70	36	--	<0.010	<0.050	0.080	<0.20	<0.010	<0.010	1.0	--
MAY												
12...	150	0.70	15	2520	<0.010	<0.050	0.060	0.40	0.090	<0.010	4.3	--
AUG												
04...	18	0.30	9.0	462	<0.010	0.120	0.030	0.40	0.220	<0.010	5.6	2

DATE	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
DEC 1993												
14...	<1	110	<1	<1.0	2	<1	<1	<1	40	<1	<1	<0.10
MAR 1994												
15...	--	120	--	--	--	--	--	--	40	--	--	--
MAY												
12...	--	150	--	--	--	--	--	--	60	--	--	--
AUG												
04...	1	40	<1	<1.0	4	<1	6	1	7	7	<1	<0.10

WATER-QUALITY RECORDS

DATE	CHROMIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G) AS CO (01038)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G) AS CU (01043)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G) AS FE (01170)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G) AS PB (01052)	MANGANESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01053)	MERCURY, RECOV. FM BOT- TOM MA- TERIAL (UG/G) AS HG (71921)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G) AS ZN (01093)	SEDIMENT, DISCHARGE, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC 1993											
14...	2	<5	3	26000	<10	470	<0.01	<10	30	7.2	74
MAR 1994											
15...	--	--	--	--	--	--	--	--	139	36	22
MAY											
12...	--	--	--	--	--	--	--	--	184	52	95
AUG											
04...	--	--	--	--	--	--	--	--	432	853	45

RIO GRANDE BASIN

08384000 LAKE SUMNER NEAR FORT SUMNER, NM

LOCATION.--Lat 34°36'30", long 104°23'04", in SE¼SW¼ sec.34, T.5 N., R.24 E., DeBaca County, Hydrologic Unit 13060001, near center of dam on Pecos River, 5.0 mi northeast of Guadalupe, 12.2 mi northwest of Fort Sumner, and at mile 702.0.

DRAINAGE AREA.--4,390 mi², approximately (contributing area).

PERIOD OF RECORD.--December 1938 to September 1965 (monthend elevations and contents), October 1965 to current year. Monthend elevations September 1937 to November 1938 published in reports of Pecos River Commission. Elevations and contents May 27 1937, to June 10, 1937, in WSP 842. Prior to October 1974, published as "Alamogordo Reservoir."

REVISED RECORDS.--WSP 1732: 1939-54 (contents). WSP 1923: 1939-53(M).

GAGE.--Water-stage recorder. Elevation of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). April 1, 1946, to Sept. 30, 1957, water-stage recorder above elevation 4,234.25 ft, nonrecording gage below. Oct. 1, 1988 to current year, water-stage recorder above elevation 4,238.00 ft, nonrecording gage below.

REMARKS.--Lake is formed by earthfill dam; completed and storage began in August 1937. Capacity, 94,750 acre-ft, from capacity table dated August 1992, between elevation 4,200.0 ft, sill of outlet gate, and elevation 4,275.0 ft, normal operating level. Capacity by original survey was 132,200 acre-feet. Dead storage 2,500 acre-feet. Reservoir is used to store water for irrigation. U.S. Bureau of Reclamation satellite telemeter at station.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 138,300 acre-ft, May 23-30, June 1-10, July 21, Sept. 22, 23, 30, Oct. 12, Nov. 4, 5, 30, Dec. 23, 24, 1941, elevation, 4,275.00 ft; maximum elevation, 4,276.10 ft June 3, Sept. 8, 1958; no storage, July 28 to Aug. 2, 1951, elevation, 4,200.70 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 44,880 acre-ft, June 23, elevation, 4,261.39 ft; minimum, 13,860 acre-ft, October 31, elevation, 4,246.21 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 08:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34820	13900	18720	23270	27710	30580	25770	23110	44310	43740	43060	27860
2	34070	14090	18830	23510	27900	30270	25790	23090	43990	43570	43820	28590
3	33400	14180	19010	23540	28120	30020	25630	23060	43820	43430	44140	28720
4	32800	14440	19120	23690	28270	29800	25590	22970	43800	43260	43540	28870
5	32170	14550	19300	23860	28460	29600	25440	22910	43490	43010	42790	28810
6	31470	14680	19410	24040	28590	29110	25300	22840	43200	43810	41980	28720
7	30850	14860	19580	24080	28720	28070	25300	22730	43340	42650	41220	28590
8	30060	14990	19720	24300	28940	27670	25220	22630	43710	42420	40550	28740
9	28780	15080	19940	24360	28940	27110	25100	22540	43770	42420	39750	28680
10	27520	15230	20020	24530	29090	26840	25030	22770	43680	42400	38900	28520
11	26450	15440	20170	24620	29290	27020	24930	26230	43910	42340	38150	28370
12	25220	15580	20390	24910	29460	27230	24850	26980	44020	42180	37350	28240
13	23310	15750	20570	25030	29490	27440	24820	27190	43800	42040	36540	28100
14	21310	16000	20630	25180	29640	27460	24780	27440	43710	41850	35740	27970
15	19280	16140	20800	25300	29840	27440	24660	27550	43540	42200	34920	27860
16	17150	16330	20950	25470	29710	27360	24550	27650	43540	42480	34140	27760
17	15750	16480	21100	25550	30040	27360	24450	27760	43630	42370	33420	27570
18	14950	16650	21220	25710	30360	27210	24360	27840	43710	42200	32660	27440
19	14520	16850	21380	25850	30700	27170	24280	27930	43880	42120	31870	27290
20	14400	16970	21550	26070	30900	27050	24190	28050	43860	41930	31010	27150
21	14340	17130	21670	26190	31040	26840	24100	29200	44220	41790	30200	27020
22	14300	17300	21830	26370	31170	26760	24000	30830	44710	41790	29950	26820
23	14260	17500	21990	26490	31220	26660	23930	32280	44880	41710	29840	26610
24	14220	17620	22020	26680	31450	26530	23840	33780	44850	41710	29000	26490
25	14170	17730	22180	26840	31270	26310	23760	35610	44850	41600	28030	26350
26	14140	17850	22450	27020	30990	26230	23540	37530	44620	41440	27110	26210
27	14080	18040	22610	27070	31130	26110	23450	40630	44140	41250	27090	26070
28	14050	18210	22710	27210	31270	25970	23310	42840	44020	41080	27020	25910
29	14040	18370	22840	27380	---	25950	23270	43230	43910	41030	27210	25770
30	13900	18540	22970	27590	---	25850	23160	43490	43800	40980	27630	25630
31	13860	---	23150	27590	---	25790	---	43850	---	41760	27800	---
MAX	34820	18540	23150	27590	31450	30580	25790	43850	44880	43810	44140	28870
MIN	13860	13900	18720	23270	27710	25790	23160	22540	43200	40980	27020	25630
(†)	4246.21	4249.44	4252.15	4254.43	4256.10	4253.55	4252.16	4261.03	4261.01	4260.28	4254.43	4253.47
(††)	-21530	+4680	+4610	+4440	+3680	-5480	-2630	+20690	-50	-2040	-13960	-2170

CAL YR 1993 MAX 44190 MIN 13860 (††) -580
WTR YR 1994 MAX 44880 MIN 13860 (††) -9760

(†) ELEVATION, IN FEET, AT END OF MONTH.
(††) CHANGE IN CONTENTS, IN ACRE-FEET.

08384500 PECOS RIVER BELOW SUMNER DAM, NM

LOCATION.--Lat 34°36'15", long 104°23'14", sec.2, T.4 N., R.24 E., DeBaca County, Hydrologic Unit 13060003, on left bank 1,200 ft downstream from Summer Dam, 2.9 mi upstream from Salado Creek, 4.6 mi northeast of Guadalupe, 12.2

PERIOD OF RECORD.--October 1912 to April 1926, August 1926 to current year. Monthly discharge only for some periods, published in WSP 1312. October 1944 to September 1974, published as "below Alamogordo Dam." Prior to October 1944, published as "near Guadalupe."

REVISED RECORDS.--WSP 1512: 1932. WSP 1632: 1942. WSP 1712: 1944.

GAGE.--Water-stage recorder and Parshall flume, with concrete control above top of flume. Elevation of gage is 4,142.99 ft above National Geodetic Vertical Datum of 1929 (U.S. Bureau of Reclamation bench mark). Prior to Sept. 10, 1936 at site 1.5 mi upstream at different datum. Sept. 14, 1936, to Mar. 8, 1941, and June 11 to Sept. 21, 1941, at site 0.2 mi downstream at different datums.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Lake Sumner (station 08384000) 0.3 mi upstream, since August 1937 and Santa Rosa Lake (station 08382810) 55.5 mi upstream, since April 1980. Diversions for irrigation of about 12,500 acres, 1959 determination, upstream from station. Several observations of water temperature were made during the year. U.S. Bureau of Reclamation satellite telemeter at station.

AVERAGE DISCHARGE.--23 years (water years 1913-25, 1927-36), 236 ft³/s, 171,000 acre-ft/yr, prior to completion of Sumner Dam.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	357	7.9	e1.0	.54	.12	1120	100	110	1400	99	669	113
2	354	.87	e1.0	.21	.18	1130	101	110	1200	99	1010	113
3	353	.86	1.3	.11	.27	1130	101	109	925	99	1160	114
4	353	.91	.73	.17	.35	862	101	108	1150	98	1160	113
5	353	.96	1.2	.23	.35	651	102	107	1250	97	1160	113
6	351	.96	1.1	.16	.26	650	102	107	1250	97	1160	121
7	350	.96	.57	.12	.23	416	103	106	1160	104	1160	125
8	548	.96	.81	.12	.21	344	103	105	818	114	1160	125
9	615	1.0	1.4	.12	e.10	273	103	104	483	113	1160	125
10	618	1.9	.67	.12	e.10	80	103	98	484	123	1160	125
11	619	.99	.80	.17	e.10	1.6	99	26	521	121	1160	125
12	949	.76	.91	.23	.12	1.4	97	29	595	118	1150	125
13	1070	.64	.61	.23	.12	44	97	29	529	118	1140	125
14	1090	.53	.44	.23	.12	117	102	29	342	e118	1130	125
15	1070	.53	.64	.23	262	117	105	29	229	e118	1130	124
16	915	.60	.64	.20	285	117	105	29	149	e118	1140	124
17	548	.39	.58	.12	258	117	105	25	110	e118	1140	124
18	343	.68	.22	.12	259	117	106	24	99	e118	1140	123
19	197	.50	.21	.12	255	118	107	24	98	e95	1140	124
20	99	.32	.21	.12	322	117	107	25	97	e95	1130	124
21	99	.37	.21	.12	357	117	108	25	97	e95	1130	124
22	99	.96	.21	.12	359	118	108	68	197	e95	1120	122
23	99	1.5	.21	.12	358	118	109	118	265	95	1130	123
24	100	.97	.21	.12	582	118	110	125	267	95	1130	124
25	100	1.0	.21	.21	654	118	110	125	268	198	1130	124
26	100	2.3	.32	.27	660	118	111	126	266	382	818	124
27	99	1.0	.32	.23	661	118	111	244	221	380	481	124
28	96	.91	.21	.23	1010	118	111	654	99	377	292	124
29	98	1.3	.54	.23	---	105	111	1200	99	378	161	125
30	98	e1.0	.54	.15	---	100	110	1280	99	378	117	125
31	98	---	.54	.12	---	100	---	1350	---	579	113	---
TOTAL	12236	34.33	16.38	3.59	6284.63	6771.0	3146	6646	14787	5282	27981	3683
MEAN	395	1.15	.60	.18	224	283	105	214	492	169	967	122
MAX	1090	7.9	1.4	.54	1010	1130	111	1350	1400	579	1160	125
MIN	96	.32	.21	.11	.10	1.4	97	24	97	95	113	113
AC-FT	24270	68	37	11	12470	17400	6240	13190	29290	10380	59470	7288

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1994, BY WATER YEAR (WY)

MEAN	127	53.5	14.2	20.3	23.3	230	286	346	429	320	286	272
MAX	1184	910	170	143	224	605	1317	1404	2905	970	967	2789
(WY)	1942	1943	1942	1942	1994	1944	1942	1973	1937	1983	1994	1941
MIN	29.7	.21	.086	.18	.22	2.05	45.6	61.5	61.5	47.4	50.9	36.7
(WY)	1975	1989	1989	1994	1954	1948	1957	1956	1963	1991	1991	1972

SUMMARY STATISTICS

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1937 - 1994	
ANNUAL TOTAL	79249.26		90797.31			
ANNUAL MEAN	217		249		200	
HIGHEST ANNUAL MEAN					710	
LOWEST ANNUAL MEAN					91.9	
HIGHEST DAILY MEAN	1120	Jul 23	1400	Jun 1	26400	Sep 1 1942
LOWEST DAILY MEAN	.03	Jan 10	.10	Feb 9	.00	Sep 1 1937
ANNUAL SEVEN-DAY MINIMUM	.12	Jan 29	.12	Jan 17	.00	Feb 18 1952
INSTANTANEOUS PEAK FLOW			1490	Jun 1	a42800	Sep 1 1942
INSTANTANEOUS PEAK STAGE			4.40	Jun 1	13.58	Sep 22 1941
ANNUAL RUNOFF (AC-FT)	157200		180100		144700	
10 PERCENT EXCEEDS	820		1080		761	
50 PERCENT EXCEEDS	107		107		83	
90 PERCENT EXCEEDS	.22		.21		.50	

Estimated

a-From computation of flow over spillway and through outlet gates of Summer Dam by U.S. Bureau of Reclamation.

RIO GRANDE BASIN

08385000 FORT SUMNER MAIN CANAL NEAR FORT SUMNER, NM

LOCATION.--Lat 34°30'30", long 104°16'40", in SE¼SW¼ sec.1, T.3 N., R.25 E., DeBaca County, Hydrologic Unit 13060003, on right bank of concrete canal, 200 ft downstream from diversion dam on Pecos River, 3.0 mi northwest of Fort Sumner, and at Pecos River mile 684.8.

PERIOD OF RECORD.--March 1939 to February 1943 (published in WSP 1732), April 1954 to current year (monthly discharge only prior to October 1965).

GAGE.--Water-stage recorder. Elevation of gage is 4,034.7 ft above National Geodetic Vertical Datum of 1929 (U.S. Bureau of Reclamation bench mark). Prior to March 1954, at site 2.4 mi downstream at different datum. April 1954 to March 1965, at site 1.1 mi downstream at datum 1.7 ft lower.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Canal diverts water from Pecos River for irrigation of about 6,600 acres, 1961 determination, by the Fort Sumner Irrigation District. Several observations of water temperature were made during the year. No flow for many days each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	35	.00	.00	.00	105	94	82	e100	89	71	90
2	89	.00	.00	.00	.00	103	96	78	e100	89	75	89
3	88	.00	.00	.00	.00	103	96	85	e100	88	92	89
4	88	.00	.00	.00	.00	100	93	85	e100	88	54	90
5	88	.00	.00	.00	.00	95	91	85	e100	88	.81	89
6	88	.00	.00	.00	.00	94	91	85	e100	88	.61	89
7	88	.00	.00	.00	.00	99	91	86	e100	88	.57	90
8	87	.00	.00	.00	.00	103	89	87	100	91	65	90
9	83	.00	.00	.00	.00	45	88	87	94	96	90	89
10	83	.00	.00	.00	.00	.57	88	91	98	96	89	89
11	90	.00	.00	.00	.00	.74	87	23	103	97	88	88
12	95	.00	.00	.00	.00	.66	87	.23	104	96	88	88
13	86	.00	.00	.00	.00	.63	87	.22	104	95	88	88
14	87	.00	.00	.00	.00	e70	87	.21	102	95	87	88
15	87	.00	.00	.00	.00	e97	89	.21	102	94	87	88
16	86	.00	.00	.00	.00	99	89	.21	99	94	87	88
17	92	.00	.00	.00	.00	100	89	.20	97	93	87	86
18	95	.00	.00	.00	.34	100	89	.19	95	92	87	86
19	93	.00	.00	.00	.92	100	88	.18	95	91	87	85
20	89	.00	.00	.00	.90	100	88	.18	94	89	87	85
21	87	.00	.00	.00	69	100	88	.18	94	85	87	83
22	88	.00	.00	.00	92	100	87	e43	95	80	88	82
23	89	.00	.00	.00	94	100	86	e93	98	78	86	81
24	89	.00	.00	.00	99	100	85	e100	97	80	86	81
25	89	.00	.00	.00	101	100	84	e100	95	92	94	81
26	89	.00	.00	.00	99	100	83	e100	94	98	96	82
27	89	.00	.00	.00	98	101	83	e100	94	90	91	93
28	87	.00	.00	.00	100	100	83	e100	92	90	91	93
29	85	.00	.00	.00	---	100	83	e100	90	90	88	93
30	86	.00	.00	.00	---	86	83	e100	90	90	86	94
31	88	---	.00	.00	---	92	---	e100	---	91	86	---
TOTAL	2738	35.00	0.00	0.00	754.16	2594.60	2642	1812.01	2926	2801	2389.99	2627
MEAN	88.3	1.17	.0000	.0000	26.9	83.7	88.1	58.5	97.5	90.4	77.1	87.6
MAX	95	35	.00	.00	101	105	96	100	104	98	96	94
MIN	83	.00	.00	.00	.00	.57	83	.18	90	78	.57	81
AC-FT	5430	69	.00	.00	1500	5150	5240	3590	5800	5560	4740	5210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1994, BY WATER YEAR (WY)

	MEAN	67.0	.92	.45	8.12	4.86	53.9	74.7	77.7	84.6	80.3	78.4	72.5
MAX	98.0	3.57	19.6	43.5	46.2	95.8	98.6	105	108	108	99.9	101	
(WY)	1974	1983	1940	1967	1988	1988	1987	1989	1973	1942	1955	1955	
MIN	.000	.000	.000	.000	.000	.000	35.4	.000	46.8	29.6	31.3	1.33	
(WY)	1942	1942	1941	1940	1940	1942	1942	1942	1941	1972	1990	1942	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1939 - 1994

ANNUAL TOTAL	20735.45	21319.76	
ANNUAL MEAN	56.8	58.4	50.9
HIGHEST ANNUAL MEAN			59.7
LOWEST ANNUAL MEAN			25.3
HIGHEST DAILY MEAN	111	105	174
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
ANNUAL RUNOFF (AC-FT)	41130	42290	36870
10 PERCENT EXCEEDS	99	100	97
50 PERCENT EXCEEDS	83	87	70
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

RIO GRANDE BASIN

08385522 PECOS RIVER BELOW TAIBAN CREEK NEAR FORT SUMNER, NM

LOCATION.--Lat 34°19'56", long 104°10'48", NW¼ sec.11, T.1 N., R.26 E., De Baca County, Hydrologic Unit 13060003, on left bank 0.6 mi downstream from Taiban Creek, 11.0 mi southeast of Fort Sumner, and at mile 665.7.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,910 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor. Flow partly regulated by Summer Dam (station 08384000) 23 mi upstream. Diversion for irrigation of about 19,100 acres (1959 determination) above station. Discharge represents in general, return flow from irrigated areas in Fort Sumner Irrigation Project.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,280 ft³/s, June 1, 2, 1994; minimum daily, 11 ft³/s, Feb. 11-13, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,280 ft³/s, June 1, 2; minimum daily, 11 ft³/s, Feb. 11-13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e200	111	23	16	17	1000	64	63	1280	46	613	420
2	e250	63	22	16	15	1020	71	59	1280	43	633	148
3	e270	44	22	16	13	1020	76	64	905	41	1070	70
4	e270	40	21	15	13	999	77	59	887	37	1110	78
5	e280	38	21	15	12	561	41	64	1140	33	1130	73
6	e300	36	20	15	12	545	40	60	1150	32	1130	66
7	290	36	20	15	12	489	46	63	1150	29	1120	71
8	326	36	20	15	12	329	51	71	932	30	1070	75
9	556	36	19	15	12	355	48	65	538	62	1020	89
10	581	35	19	15	12	231	39	99	398	66	1010	101
11	549	34	19	16	11	76	55	439	409	55	1030	103
12	637	34	19	16	11	38	50	111	477	71	1020	93
13	1020	35	19	16	11	28	44	64	540	53	1030	90
14	1060	33	19	16	12	30	42	58	420	57	1020	95
15	1070	34	19	15	13	51	45	52	253	59	1020	110
16	1070	32	19	16	175	52	54	48	155	53	1010	116
17	689	31	18	16	194	64	53	45	94	52	1020	106
18	426	30	18	16	203	59	46	40	64	53	1020	80
19	324	30	17	16	216	47	53	39	55	54	1020	81
20	204	29	17	16	240	47	51	40	54	51	1010	73
21	116	29	18	15	295	50	57	39	51	98	1010	74
22	109	27	18	15	280	54	62	39	45	49	1120	77
23	108	27	19	15	268	50	62	46	162	45	1030	86
24	103	27	19	14	308	63	62	53	213	145	1020	83
25	98	27	18	14	537	43	65	52	220	261	1020	98
26	100	27	18	14	533	49	63	66	217	263	953	89
27	95	27	17	14	535	50	59	209	219	267	509	77
28	104	25	16	14	639	70	58	215	145	280	295	78
29	94	25	16	14	---	72	56	844	61	275	165	71
30	92	23	16	14	---	62	66	1150	52	279	83	72
31	94	---	16	15	---	68	---	1190	---	292	82	---
TOTAL	11485	1061	582	470	4611	7672	1656	5506	13566	3231	27393	2943
MEAN	370	35.4	18.8	15.2	165	247	55.2	178	452	104	884	98.1
MAX	1070	111	23	16	639	1020	77	1190	1280	292	1130	420
MIN	92	23	16	14	11	28	39	39	45	29	82	66
AC-FT	22780	2100	1150	932	9150	15220	3280	10920	26910	6410	54330	3840

CAL YR 1993 TOTAL 71847 MEAN 197 MAX 1170 MIN 14 AC-FT 142500
WTR YR 1994 TOTAL 80176 MEAN 220 MAX 1280 MIN 11 AC-FT 159000

e Estimated

RIO GRANDE BASIN

08385522 PECOS RIVER BELOW TAIBAN CREEK NEAR FORT SUMNER, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1992 to September 1993.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
DEC 1993										
13...	1500	19	2900	8.1	11.5	6.0	2.2	659	10.9	102
JAN 1994										
10...	1600	15	2900	8.1	12.0	12.0	0.90	663	11.8	127
MAR										
07...	1530	629	2120	8.0	18.5	6.5	7.1	660	10.4	98
MAY										
09...	1300	57	2400	8.1	30.0	25.0	3.5	657	--	--
JUL										
05...	1345	37	2290	7.8	39.0	31.0	6.7	660	6.7	106
SEP										
07...	1300	45	1780	8.2	29.5	24.0	23	635	5.4	78

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT MG/L AS CO3 (00452)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
DEC 1993										
13...	1500	1300	450	98	140	2	2.6	250	0	205
JAN 1994										
10...	1600	1400	470	99	150	2	2.6	248	0	202
MAR										
07...	1200	1100	400	49	67	0.8	2.5	137	0	112
MAY										
09...	1400	1200	420	77	110	1	3.2	205	0	168
JUL										
05...	1200	1000	350	76	120	2	6.0	205	0	168
SEP										
07...	850	680	260	49	74	1	3.2	210	0	172

DATE	ALKA- LITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
DEC 1993									
13...	180	1300	160	0.60	0.18	13	2290	240	40
JAN 1994									
10...	162	1300	160	0.70	0.20	15	2320	250	30
MAR									
07...	117	1000	84	0.50	0.060	11	1680	90	30
MAY									
09...	96	1200	120	0.60	0.13	13	2040	180	20
JUL									
05...	161	1100	110	0.50	0.12	14	1880	190	<10
SEP									
07...	140	760	78	0.50	0.11	14	1340	140	3

LOCATION.--Lat 34°03'48", long 104°18'22", in SE¼NW¼, sec. 10, T.3 S., R.25 E., DeBaca County, Hydrologic Unit 13060003, on left bank 1.2 mi south of Van Eaton Ranch, 2.5 mi upstream from Arroyo de la Mora, 2.7 mi downstream from Blance Canyon. 15 mi east of Dunlap, NM. and at mile 638.1

REMARKS.--Records poor. Flow partly regulated by Lake Summer (station 08384000). Diversion for irrigation of about 19,100 acres (1959 determination) above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1030 ft³/s, June 2, 1994; minimum daily, 11 ft³/s, Jan. 27, 1994.

EXTREMES FOR PERIOD AUGUST TO SEPTEMBER 1993.--Maximum daily discharge, 733 ft³/s Sept. 25; minimum daily, 38 ft³/s, Sept. 5.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,030 ft³/s June 2; minimum daily, 11 ft³/s, Jan. 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993
DAILY MEAN VALUES

[illegible]

RIO GRANDE BASIN

08385630 PECOS RIVER NEAR DUNLAP, NM -- Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	133	27	18	e12	695	86	63	993	40	401	150
2	223	135	26	16	e13	789	76	59	1030	37	594	505
3	243	100	25	15	e14	782	81	48	962	32	759	214
4	248	77	25	15	e15	759	89	53	741	27	957	137
5	256	66	24	15	16	640	87	45	868	21	979	123
6	272	58	24	14	14	529	54	43	941	17	981	103
7	277	53	24	15	14	528	51	43	947	15	999	86
8	281	49	23	15	14	439	58	42	914	11	1000	83
9	293	45	22	15	14	356	61	45	697	20	961	82
10	381	42	21	15	14	334	56	64	402	48	960	88
11	559	42	21	14	14	220	49	293	379	48	970	97
12	563	42	22	14	14	94	60	399	395	36	960	100
13	745	44	22	15	e13	67	56	151	424	51	934	98
14	884	48	21	15	13	54	48	90	403	44	947	96
15	884	45	20	16	15	50	46	76	313	37	961	95
16	903	42	20	15	16	74	48	58	216	36	954	99
17	862	41	19	14	182	75	56	54	141	32	949	96
18	618	39	19	15	235	83	58	54	93	34	961	93
19	517	38	20	15	234	74	53	54	70	31	946	76
20	436	36	19	14	247	58	57	149	50	62	921	74
21	285	34	19	13	271	60	54	51	47	70	916	69
22	214	33	18	13	297	62	55	40	42	82	1010	67
23	193	33	18	14	277	65	68	35	42	41	970	70
24	179	31	16	14	285	59	65	35	104	34	930	79
25	164	29	e17	14	388	74	55	49	165	110	950	74
26	150	e30	e19	12	486	56	54	53	178	252	964	84
27	151	e30	e20	11	496	66	57	119	182	260	797	83
28	143	29	21	13	503	67	56	147	176	269	535	66
29	149	29	20	14	---	91	57	260	106	288	360	64
30	141	28	19	13	---	90	56	851	46	290	242	58
31	138	---	18	e13	---	80	---	958	---	316	165	---
TOTAL	11432	1481	649	444	4126	7470	1807	4481	12067	2691	25933	3209
MEAN	369	49.4	20.9	14.3	147	241	60.2	145	402	86.8	837	107
MAX	903	135	27	18	503	789	89	958	1030	316	1010	505
MIN	80	28	16	11	12	50	46	35	42	11	165	58
AC-FT	22680	2940	1290	881	8180	14820	3580	8890	23930	5340	51440	6370

WTR YR 1994 TOTAL 75790 MEAN 208 MAX 1030 MIN 11 AC-FT 150300
e Estimated

RIO GRANDE BASIN

08385648 PECOS RIVER ABOVE ACME, NM

LOCATION.--Lat 33°41'09", long 104°18'59", in SW¼NE¼ sec. 31, T.7 S., R.26 E., Chaves County, Hydrologic Unit 13060007, on left bank 0.5 mi upstream from Eightmile Draw, 2.5 mi upstream from boundary for Bitter Lake

GAGE.--Water-stage recorder. Elevation of gage is 3,550 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records poor. Flow partly regulated by Lake Sumner (station 08384000). Diversion for irrigation of about 19,100 acres (1959 determination) above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,050 ft³/s, Aug. 26, 1994; minimum daily, 6.2 ft³/s, July 20, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,050 ft³/s, Aug. 26; minimum daily, 6.2 ft³/s, July 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	e110	25	16	11	491	88	29	930	42	246	179
2	32	e110	24	15	10	e900	83	29	984	28	420	285
3	135	e115	23	14	11	885	85	30	e980	22	849	514
4	201	e100	22	14	12	914	83	26	382	18	e940	224
5	212	e80	22	13	13	792	87	22	385	16	e930	160
6	226	e65	20	12	13	370	98	20	608	14	e880	119
7	270	e60	20	13	12	401	70	17	557	11	e900	104
8	278	e56	21	13	12	433	56	17	557	7.5	e900	81
9	303	52	20	14	11	297	52	16	445	29	e880	72
10	e450	49	18	14	10	254	52	41	280	7.6	e860	67
11	e640	48	18	14	10	246	52	106	166	10	e860	63
12	527	45	20	14	9.7	185	50	344	282	26	e880	67
13	509	46	20	16	9.0	126	45	280	270	23	e900	68
14	e850	46	19	15	9.6	108	46	122	321	16	e900	60
15	e850	43	19	14	9.4	84	40	83	398	20	e900	66
16	e850	42	18	14	8.1	68	34	53	270	12	e900	52
17	816	38	17	14	6.9	85	30	37	136	8.9	e900	61
18	465	37	17	13	54	83	29	31	74	9.0	e900	66
19	300	34	17	13	187	91	31	70	39	6.8	e900	68
20	285	32	18	13	203	88	29	77	26	6.2	e920	49
21	185	31	18	13	216	73	27	99	18	6.9	e930	43
22	123	29	18	13	247	69	34	61	14	77	e960	40
23	108	29	16	13	298	68	31	24	13	38	1010	37
24	137	28	14	13	299	66	33	17	10	37	e960	36
25	149	27	16	12	320	61	30	14	11	16	e1000	40
26	136	26	19	11	e420	73	26	18	89	11	e1050	36
27	131	26	19	11	462	66	24	74	107	212	770	39
28	e120	26	20	11	477	72	31	39	125	268	453	41
29	e115	26	19	10	---	68	32	138	137	284	306	31
30	e120	26	18	11	---	83	31	616	115	310	255	27
31	e115	---	17	11	---	92	---	e860	---	275	210	---
TOTAL	9679	1482	592	407	3360.7	7692	1439	3410	8729	1867.9	24669	2795
MEAN	312	49.4	19.1	13.1	120	248	48.0	110	291	60.3	796	93.2
MAX	850	115	25	16	477	914	98	860	984	310	1050	514
MIN	32	26	14	10	6.9	61	24	14	10	6.2	210	27
AC-FT	19200	2940	1170	807	6670	15260	2850	6760	17310	3700	48930	5540

CAL YR 1993 TOTAL 61432.4 MEAN 168 MAX 900 MIN 8.7 AC-FT 121900
WTR YR 1994 TOTAL 66122.6 MEAN 181 MAX 1360 MIN 6.2 AC-FT 131200

e Estimated

RIO GRANDE BASIN

08386000 PECOS RIVER NEAR ACME, NM

(Surveillance network station)

LOCATION.--Lat 33°32'10", long 104°22'34", in SW¼NW¼ sec.14, T.9 S., R.25 E., Chaves County, Hydrologic Unit 13060007, on right bank 3.0 mi downstream from U.S. Highway 70, 3.7 mi downstream from Salt Creek, 4.7 mi southwest of Acme, 14 mi northeast of Roswell, and at mile 585.3.

DRAINAGE AREA.--11,380 mi², approximately (contributing area).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1921 to June 1923, July 1937 to current year. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder. Elevation of gage is 3,510 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 1, 1938, at site on highway bridge 3 mi upstream at various datums. Since Oct. 25, 1963, supplemental water-stage recorder at site opposite base gage at same datum.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are fair. Flow regulated by Lake Sumner (station 08384000) 117 mi upstream since August 1937 and Santa Rosa Lake (station 08382810) 172 mi upstream since April 1980. Diversions for irrigation of about 20,000 acres, 1959 determination, upstream from station. U.S. Army Corps of Engineers satellite telemeter at station. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of May 28, 1937, reached a discharge of 53,000 ft³/s, gage height, 14.82 ft, from floodmarks, site and datum then in use, from slope-area measurement, but may have been exceeded by the flood of Oct. 1, 1904.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	126	26	15	13	481	103	32	845	65	208	292
2	87	123	25	13	11	835	89	27	928	26	239	376
3	186	118	24	12	14	817	91	31	947	18	629	490
4	309	123	23	10	15	819	89	32	616	12	871	334
5	302	80	23	10	16	838	103	20	634	9.0	797	178
6	308	67	21	9.0	17	594	114	19	798	7.2	769	119
7	317	665	21	7.7	18	551	103	15	674	3.7	819	109
8	338	655	21	9.5	17	573	69	11	688	2.3	823	91
9	336	46	21	10	14	507	56	12	591	17	807	78
10	393	44	20	11	13	458	53	40	554	12	746	73
11	610	42	19	12	12	445	51	123	389	1.7	754	67
12	539	41	20	11	10	369	48	327	364	2.8	845	68
13	486	41	21	15	9.1	232	43	373	350	17	894	71
14	712	43	19	19	9.3	159	46	235	361	10	906	67
15	777	40	19	19	10	122	39	155	389	4.7	845	73
16	801	41	18	19	8.8	92	30	98	265	8.9	848	61
17	798	39	17	19	9.0	92	24	66	140	2.6	856	63
18	639	37	17	19	9.1	96	21	53	74	2.2	843	68
19	472	36	17	18	105	98	23	125	29	1.3	892	72
20	411	34	17	17	138	103	22	175	13	.33	956	61
21	293	32	17	17	143	90	23	104	5.6	.21	938	48
22	240	32	17	18	165	73	30	174	2.8	20	998	46
23	234	31	16	19	244	73	34	62	2.5	52	1080	43
24	196	30	13	19	264	70	27	36	2.4	38	945	42
25	182	29	14	18	302	65	26	26	2.1	16	1060	44
26	169	27	18	15	401	65	19	25	52	2.9	1080	49
27	160	28	16	13	467	81	19	87	106	67	1020	45
28	148	26	19	13	473	71	20	97	118	283	861	56
29	137	27	21	13	---	81	30	182	127	271	691	50
30	129	27	20	14	---	76	32	295	139	269	495	40
31	132	---	19	13	---	103	---	789	---	251	408	---
TOTAL	10943	1530	599	447.2	2927.3	9129	1477	3846	10206.4	1493.84	24923	3274
MEAN	353	51.0	19.3	14.4	105	294	49.2	124	340	48.2	804	109
MAX	801	126	26	19	473	838	114	789	947	283	1080	490
MIN	87	26	13	7.7	8.8	65	19	11	2.1	.21	208	40
AC-FT	21710	3030	1190	887	5810	18110	2930	7630	20240	2960	49430	6490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1994, BY WATER YEAR (WY)

	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
MEAN	150	55.2	26.4	25.7	26.4	164	218	285	299	324	261	303
MAX	2200	858	236	190	234	595	1217	2680	2186	1611	804	3527
(WY)	1942	1943	1942	1942	1987	1941	1942	1941	1941	1960	1994	1941
MIN	.000	.000	.000	.000	.000	.16	3.58	1.81	.000	.19	.90	.000
(WY)	1948	1948	1948	1948	1953	1954	1967	1946	1947	1954	1947	1947

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1938 - 1994
ANNUAL TOTAL	71625.1	70795.74	
ANNUAL MEAN	196	194	179
HIGHEST ANNUAL MEAN			964
LOWEST ANNUAL MEAN			56.8
HIGHEST DAILY MEAN	2060	Jul 15	29500
LOWEST DAILY MEAN	1.9	Feb 26	.00
ANNUAL SEVEN-DAY MINIMUM	3.4	Feb 22	.00
INSTANTANEOUS PEAK FLOW			1210
INSTANTANEOUS PEAK STAGE			5.96
INSTANTANEOUS LOW FLOW			.03
ANNUAL RUNOFF (AC-FT)	142100	140400	129600
10 PERCENT EXCEEDS	639	749	671
50 PERCENT EXCEEDS	65	61	22
90 PERCENT EXCEEDS	14	11	.51

e Estimated

a-From slope-area measurement, but may have exceeded by the flood of Oct. 1, 1904.

b-From floodmarks, site and datum then in use.

RIO GRANDE BASIN

08386000 PECOS RIVER NEAR ACME, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1937 to current year.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
DEC 1993												
28...	0945	23	4220	8.3	7.0	5.0	676	11.4	102	14	1600	--
MAR 1994												
08...	0900	501	2220	8.0	1.0	6.0	673	9.5	87	11	1100	1000
JUN												
15...	1245	390	1370	7.9	36.5	26.0	671	10.6	150	18	620	540
SEP												
06...	1400	111	1350	8.3	29.5	26.5	672	5.3	75	18	640	530

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
DEC 1993												
28...	460	110	410	4	3.6	--	0	--	116	1400	680	0.40
MAR 1994												
08...	360	53	74	1	2.4	116	0	95	100	1000	96	0.60
JUN												
15...	200	29	45	0.8	3.0	100	0	82	86	550	55	0.50
SEP												
06...	210	28	41	0.7	4.3	137	0	112	84	590	50	0.30

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHOPHOS- PHATE DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
DEC 1993												
28...	12	3150	--	<0.010	0.210	0.080	<0.20	0.010	<0.010	1.9	<1	<1
MAR 1994												
08...	11	1650	--	<0.010	0.093	0.040	0.50	0.220	<0.010	--	--	--
JUN												
15...	9.7	942	0.044	0.030	0.074	0.090	0.60	0.210	<0.010	4.8	--	--
SEP												
06...	8.9	1000	--	<0.010	0.270	0.030	0.70	0.210	<0.010	5.6	2	1

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)
DEC 1993											
28...	250	<1	<1.0	1	<1	<1	<1	30	<1	<1	<0.10
MAR 1994											
08...	90	--	--	--	--	--	--	30	--	--	--
JUN											
15...	80	--	--	--	--	--	--	4	--	--	--
SEP											
06...	80	<1	<1.0	5	<1	9	2	17	7	<1	0.30

RIO GRANDE BASIN

08386000 PECOS RIVER NEAR ACME, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	NITRO- GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO- GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOS- PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD) (01028)
DEC 1993											
28...	<0.1	<1	<1	<10	10	3.0	1.0	50	320	1	<1
MAR 1994											
08...	--	--	--	--	--	--	--	--	--	--	--
JUN											
15...	--	--	--	--	--	--	--	--	--	--	--
SEP											
06...	0.3	1	<1	40	<3	--	--	--	--	--	--
DATE	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB) (01052)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN) (01093)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC 1993											
28...	3	<5	2	2100	<10	140	<0.01	<10	115	7.0	76
MAR 1994											
08...	--	--	--	--	--	--	--	--	1070	1450	33
JUN											
15...	--	--	--	--	--	--	--	--	791	833	50
SEP											
06...	--	--	--	--	--	--	--	--	421	126	73

RIO GRANDE BASIN

08387000 RIO RUIDOSO AT HOLLYWOOD. NM

LOCATION.--Lat 33°19'36", long 105°37'38", in SE¼SE¼NW¼ sec.25, T.11 S., R.13 E., Lincoln County, Hydrologic Unit 13060008, on center pier on downstream side of bridge on Blooming Dale Road in Ruidoso Downs, 0.1 mi north of

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1953 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,420 ft above National Geodetic Vertical Datum of 1929, from topographic map. Mar. 14, 1953 to Mar. 28, 1985, at site 0.95 mi downstream at different datum.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Village of Ruidoso diverts from right bank 7.0 mi upstream for municipal use and returns a portion of this water as effluent from sewage disposal plant downstream from the gage.

AVERAGE DISCHARGE.--28 years (1954-81), 14.9 ft³/s, 10,800 acre-ft/yr, for period when sewage disposal plant effluent was discharged upstream from gage.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Sept. 29, 1941, is probably the highest since at least 1904 (discharge not determined).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	13	11	10	9.0	11	17	12	9.9	7.6	22	11
2	16	13	10	10	9.2	11	17	12	11	7.7	18	14
3	16	12	10	9.7	9.4	11	18	11	12	7.6	14	9.7
4	16	e12	9.7	9.9	9.4	11	18	11	13	7.4	12	12
5	15	e13	11	10	9.4	11	18	12	12	7.4	12	12
6	15	e14	10	10	9.1	12	17	12	11	7.4	12	11
7	14	e12	10	9.5	9.0	12	17	13	10	7.4	12	9.4
8	15	e11	10	9.2	15	13	17	13	11	8.1	11	13
9	14	e11	10	9.6	11	13	16	13	11	7.9	11	18
10	13	11	9.6	9.3	9.7	12	16	13	11	7.8	11	16
11	13	12	9.4	9.0	9.4	12	15	15	12	8.9	11	15
12	13	14	12	9.1	9.3	11	15	23	10	8.1	11	15
13	13	16	9.9	9.1	8.9	11	15	17	11	7.8	10	16
14	13	13	9.5	9.3	9.4	11	15	17	10	11	11	17
15	12	12	9.8	9.5	9.3	12	15	18	10	8.3	12	17
16	13	12	9.6	9.3	9.7	12	15	17	9.3	8.1	12	18
17	22	11	9.0	8.9	9.8	12	15	16	9.2	12	10	16
18	18	12	9.3	9.2	10	13	15	17	9.5	8.9	9.8	15
19	15	11	10	9.1	10	15	15	17	9.3	8.7	9.7	14
20	14	11	9.7	9.1	10	20	17	15	9.3	8.4	14	14
21	14	11	9.4	9.1	11	21	16	15	9.6	11	11	13
22	15	11	9.7	9.1	11	20	18	17	11	9.7	6.2	13
23	13	11	9.4	9.2	10	20	17	16	9.1	8.7	4.6	13
24	13	12	9.5	9.2	10	20	18	17	8.3	9.0	4.7	12
25	12	12	9.6	8.9	11	19	18	13	8.5	9.0	2.3	12
26	12	11	9.8	8.8	11	19	18	11	8.2	8.8	2.1	12
27	14	11	10	8.7	11	18	17	12	7.9	9.4	1.9	12
28	13	11	9.7	9.0	11	19	17	11	7.8	12	1.9	11
29	13	11	10	9.1	---	18	16	10	7.7	12	1.9	11
30	13	11	10	9.1	---	19	14	10	7.6	13	2.3	11
31	13	---	10	9.1	---	18	---	10	---	14	6.6	---
TOTAL	441	358	306.6	288.1	282.0	457	492	436	297.2	283.1	291.0	403.1
MEAN	14.2	11.9	9.89	9.29	10.1	14.7	16.4	14.1	9.91	9.13	9.39	13.4
MAX	22	16	12	10	15	21	20	20	10	14	22	18
MIN	12	11	9.0	8.7	8.9	11	14	10	7.6	7.4	1.9	9.4
AC-FT	875	710	608	571	559	906	976	865	589	562	577	800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1994, BY WATER YEAR (WY)

MEAN	15.6	12.8	14.2	12.0	14.6	24.3	37.3	29.8	13.7	12.8	25.2	22.0
MAX	80.8	69.0	130	61.5	58.6	91.2	104	102	52.3	49.9	162	63.4
(WY)	1987	1987	1985	1985	1985	1985	1992	1973	1986	1986	1984	1988
MIN	1.72	2.41	2.67	2.65	2.86	3.05	2.23	1.79	1.16	2.31	4.19	2.34
(WY)	1961	1961	1965	1956	1971	1971	1971	1967	1959	1964	1960	1960

SUMMARY STATISTICS

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1954 - 1994	
ANNUAL TOTAL	10067.6		4335.1			
ANNUAL MEAN	27.6		11.9		19.5	
HIGHEST ANNUAL MEAN					49.7	1987
LOWEST ANNUAL MEAN					4.17	1964
HIGHEST DAILY MEAN	99	Mar 26	23	May 12	1130	Dec 20 1984
LOWEST DAILY MEAN	9.0	Dec 17	1.9	Aug 27	.40	May 8 1964
ANNUAL SEVEN-DAY MINIMUM	9.5	Dec 17	2.4	Aug 24	.61	May 7 1964
INSTANTANEOUS PEAK FLOW			115	Aug 20	a2120	Aug 11 1984
INSTANTANEOUS PEAK STAGE			2.52	Aug 20	b10.05	Jun 17 1965
INSTANTANEOUS LOW FLOW			1.9	Aug 26	.30	Jan 1 1962
ANNUAL RUNOFF (AC-FT)	19970		8600		14160	
10 PERCENT EXCEEDS	55		17		46	
50 PERCENT EXCEEDS	21		11		11	
90 PERCENT EXCEEDS	11		8.8		3.1	

e Estimated

a-From rating curve extended above 510 ft³/s, on basis of slope-area measurement of peak flow.

b-Site and datum then in use.

RIO GRANDE BASIN

08387000 RIO RUIDOSO AT HOLLYWOOD, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-67, 1987 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)
DEC 1993										
29...	1030	9.7	2040	8.2	1.5	7.0	688	11.5	106	16
MAR 1994										
09...	1045	12	2130	8.4	2.0	8.0	683	11.1	105	12
JUN										
16...	1300	9.4	1250	8.2	29.0	20.5	680	8.2	103	<10
SEP										
08...	1245	14	1150	8.2	27.0	19.0	--	--	--	<10

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREP-TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
DEC 1993									
29...	K5	220	640	180	46	160	3	4.9	188
MAR 1994									
09...	K11	39	660	190	45	220	4	6.6	190
JUN									
16...	130	80	570	160	42	48	0.9	1.5	158
SEP									
08...	170	180	500	140	36	48	0.9	1.7	163

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
DEC 1993									
29...	470	240	0.30	14	1230	--	<0.010	0.380	0.050
MAR 1994									
09...	440	330	0.30	14	1360	0.340	0.010	0.350	0.080
JUN									
16...	420	60	0.40	14	841	--	<0.010	0.050	<0.010
SEP									
08...	360	60	0.30	14	759	--	<0.010	0.150	0.020

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	SEDI-MENT, DIS-SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC 1993									
29...	0.20	0.040	<0.010	4.6	40	<3	54	1.4	85
MAR 1994									
09...	0.30	0.060	0.020	2.4	30	20	407	14	98
JUN									
16...	0.20	0.010	<0.010	1.4	30	<3	25	0.63	72
SEP									
08...	<0.20	0.020	0.020	1.8	20	<3	26	0.98	77

RIO GRANDE BASIN

08387600 EAGLE CREEK BELOW SOUTH FORK, NEAR ALTO, NM

LOCATION.--Lat 33°23'33", long 105°43'16", in SE¼SW¼ sec.31, T.10 S., R.13 E., Lincoln County, Hydrologic Unit 13060008, in Lincoln National Forest on right bank 100 ft upstream from culvert under State Road 532, 400 ft downstream from South Fork and 2.5 mi west of Alto. Mouth at Rio Pecos mile 11.3

PERIOD OF RECORD.--August 1969 to December 1980, April 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,600 ft above National Geodetic Vertical Datum of 1929, from topographic map. August 26, 1969 to December 31, 1980, at site 360 ft downstream at datum 6.0 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversions for irrigation upstream from station. Some water is stored in small unregulated recreational ponds on the Mescalero Apache Indian Reservation upstream. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.2	1.2	.45	.35	.53	2.0	.74	.63	.14	1.1	.70
2	1.1	1.2	1.2	.38	.35	.47	1.8	.80	.47	.15	1.2	.53
3	1.1	e1.1	1.1	.35	.35	.48	1.8	.72	.60	.16	.60	.38
4	.97	e1.1	1.2	.35	.30	.47	1.8	.63	.53	.15	.45	.56
5	.97	e1.0	1.3	.35	.30	.47	1.6	.49	.44	.17	.35	.51
6	.97	e1.1	1.3	.35	.35	.45	1.6	.41	.41	.13	.28	.45
7	1.1	e1.1	1.3	.29	.35	.44	1.6	.40	.38	.10	.25	.42
8	1.0	e1.0	1.2	.34	.49	.51	1.6	.36	.35	.10	.23	.36
9	.92	e1.0	1.2	.35	.60	.58	1.5	.35	.33	.11	.18	.33
10	.85	.97	1.2	.29	.64	.59	1.4	.29	.30	1.4	.16	.30
11	.85	1.1	1.2	1.1	.63	.58	1.3	.49	.30	1.0	.14	.30
12	.85	1.7	1.3	.29	.52	.59	1.3	1.2	.30	.46	.14	.30
13	.85	1.7	1.2	.27	1.5	.66	1.2	1.4	.30	.33	.12	.29
14	.85	2.2	1.2	.27	.65	.80	1.1	5.7	.27	.25	.12	.42
15	.87	2.1	1.1	.27	.55	.80	.97	4.9	.23	.20	.24	.45
16	.99	1.9	1.0	.25	.59	.79	.94	3.8	.17	.18	.25	.54
17	3.2	1.8	.97	.78	.57	.79	.86	2.9	.14	.28	.18	.53
18	2.0	1.7	.97	.23	.66	.77	.81	2.2	.11	.36	.14	.38
19	2.6	1.6	.95	.39	.59	.74	.74	1.7	.14	.28	.12	.33
20	2.3	1.5	.83	.26	.50	2.2	.74	1.4	.21	.23	.41	.28
21	2.1	1.4	.75	.39	.48	2.5	.74	1.2	.85	.36	.73	.27
22	1.7	1.4	.70	.46	.47	3.7	.76	2.0	.56	.39	.39	.26
23	1.5	1.4	.64	.32	.97	3.2	.65	1.8	.33	.33	.28	.24
24	1.4	1.3	.56	.25	2.3	2.9	.64	1.4	.25	.26	.23	.23
25	1.4	1.3	.55	.25	.42	2.4	.58	1.5	.21	.23	.18	.20
26	1.3	1.3	.49	.28	.43	2.1	.64	1.2	.16	.20	.16	.19
27	1.4	1.3	.48	.24	.48	2.0	.66	1.2	.14	.24	.14	.18
28	1.3	1.3	.46	.24	.52	2.1	.73	.95	.11	.39	.13	.17
29	1.3	1.2	.51	.27	---	2.5	.74	.80	.11	.63	.16	.15
30	1.3	1.2	.51	.29	---	2.4	.77	.71	.13	1.2	.29	.14
31	1.3	---	.48	.34	---	2.1	---	.65	---	1.1	.34	---
TOTAL	41.54	41.17	29.05	10.94	16.91	41.61	33.57	44.29	9.46	11.51	9.69	10.39
MEAN	1.34	1.37	.94	.35	.60	1.34	1.12	1.43	.32	.37	.31	.35
MAX	3.2	2.2	1.3	1.1	2.3	3.7	2.0	5.7	.85	1.4	1.2	.70
MIN	.85	.97	.46	.23	.30	.44	.58	.29	.11	.10	.12	.14
AC-FT	82	82	58	22	34	83	67	88	19	23	19	21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1994, BY WATER YEAR (WY)

	MEAN	2.50	2.22	2.26	1.88	2.47	4.13	5.68	4.37	1.50	1.88	3.80	4.00
MAX	14.4	17.3	19.5	7.89	8.19	10.6	14.0	15.8	5.94	5.50	16.3	9.26	
(WY)	1975	1979	1979	1979	1979	1979	1973	1973	1979	1990	1988	1974	
MIN	.29	.22	.22	.22	.36	.33	.24	.16	.050	.10	.31	.35	
(WY)	1990	1990	1990	1990	1971	1971	1971	1971	1990	1971	1994	1994	

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1970 - 1994
ANNUAL TOTAL	1071.93	300.13	
ANNUAL MEAN	2.94	.82	3.01
HIGHEST ANNUAL MEAN			8.48
LOWEST ANNUAL MEAN			.39
HIGHEST DAILY MEAN	16	Aug 4	170
LOWEST DAILY MEAN	.22	Jul 11	.00
ANNUAL SEVEN-DAY MINIMUM	.45	Jul 5	.00
INSTANTANEOUS PEAK FLOW			13
INSTANTANEOUS PEAK STAGE			5.54
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (AC-FT)	2130	595	2180
10 PERCENT EXCEEDS	6.1	1.7	7.5
50 PERCENT EXCEEDS	1.9	.59	1.4
90 PERCENT EXCEEDS	.94	.18	.30

e Estimated

a-From rating curve extended above 40 ft³/s.

b-Site and datum then in use.

RIO GRANDE BASIN

08390500 RIO HONDO AT DIAMOND A RANCH, NEAR ROSWELL, NM

LOCATION.--33°20'57", long 104°51'05", in NE¼ sec.20, T.11 S, R.21 E., Chaves County, Hydrologic Unit 13060008, on right bank 40 ft downstream from bridge on Mossman Road at Diamond A Ranch farm, 1.3 mi south of U.S. Highway 70-380, 13 mi upstream from Two Rivers Reservoir, 21 mi upstream from mouth of Rocky Arroyo, 18 mi west of Roswell, and at mile 44.7.

DRAINAGE AREA.--947 mi², contributing area.

PERIOD OF RECORD.--May 1908 to August 1909, May 1939 to current year. Monthly discharge only for 1908-9, published in Technical Report 7, State of New Mexico, State Engineer Office, "Streamflow and Reservoir Content, 1888-1954."

REVISED RECORDS.--WSP 1392: Drainage area. WSP 1512: 1939-40(P), 1941, 1942-43(P), 1946(P).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 4,190 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 11, 1965, at site on left bank at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions and ground-water withdrawals upstream from station for irrigation above and below station of about 6,500 acres, 1959 determination. Several observations of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemeter at station. No flow most of time.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood on June 1, 1937, reached a discharge of 24,900 ft³/s at Riverside, about 13 mi upstream. Other major floods occurred Oct. 31, 1901, Sept. 29, 30, 1904, and July 25, 1905.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	18	24	40	30	6.4	.00	2.5	54	.00	.00	.00
2	3.4	13	21	40	24	.05	.00	1.4	47	.00	.00	.00
3	3.5	12	19	39	25	.00	.00	.65	38	.00	.00	.00
4	5.5	12	20	37	25	.00	.00	.00	31	.00	.00	.00
5	3.6	12	19	35	34	.08	.00	.00	23	.00	.00	.00
6	3.3	13	22	37	38	.04	.00	.00	22	.00	.00	.00
7	3.6	15	24	33	32	2.3	.00	.00	16	.00	.00	.00
8	2.9	16	24	36	17	2.4	.00	.00	5.4	.00	.00	.00
9	2.7	15	22	36	14	.57	.00	.00	1.2	.00	.00	.00
10	2.7	14	23	35	17	.20	.00	37	.00	.00	.00	.00
11	3.9	12	e24	35	14	.00	1.1	200	.00	.00	.00	.00
12	2.8	12	e26	38	12	.00	.00	79	.00	.00	.00	.00
13	2.1	17	e27	38	13	.00	.00	79	5.2	.00	.00	.00
14	2.9	25	e26	39	16	.00	.00	e60	1.3	.00	.00	.00
15	2.1	28	e25	37	13	.00	.00	e45	.01	.00	.00	.00
16	1.7	27	e26	37	5.6	.00	.00	e34	.00	.00	.00	.00
17	1.9	28	e29	37	5.4	.00	.00	e21	.00	.00	.00	.00
18	3.2	25	e31	37	5.5	.00	.00	e19	.00	.00	.00	.00
19	8.2	25	e33	36	10	.00	.00	e17	.00	.00	.00	.00
20	8.6	23	e37	35	9.9	.00	.00	382	.00	.00	.00	.00
21	5.7	24	e37	35	9.9	.00	.86	107	.00	.00	.00	.00
22	4.5	22	e36	29	10	.00	.00	155	.00	.00	.00	.00
23	4.5	18	e37	32	9.0	.00	.54	95	.00	.00	.00	.00
24	5.4	16	e37	36	8.9	.00	2.4	83	.00	.00	.00	.00
25	6.9	19	e38	34	8.7	.00	.74	81	.00	.00	.00	.00
26	4.6	21	e39	31	8.2	.00	.00	101	.00	.00	.00	.00
27	5.0	23	e40	26	9.0	.00	.00	106	.00	.00	.00	.00
28	6.0	24	e39	27	9.8	.00	.00	75	.00	.00	.00	.00
29	7.4	25	36	24	---	.00	.00	68	.00	.00	.00	.00
30	12	26	39	26	---	.00	.23	62	.00	.00	.00	.00
31	18	---	39	30	---	.00	---	56	---	.00	.00	---
TOTAL	152.8	580	919	1067	433.9	12.04	5.87	1966.55	244.11	0.00	0.00	0.00
MEAN	4.93	19.3	29.6	34.4	15.5	.39	.20	63.4	8.14	.000	.000	.000
MAX	18	28	40	40	38	6.4	2.4	382	54	.00	.00	.00
MIN	1.7	12	19	24	5.4	.00	.00	.00	.00	.00	.00	.00
AC-FT	303	1150	1820	2120	861	24	12	3900	484	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1993, BY WATER YEAR (WY)

	MEAN	27.8	17.5	20.0	17.5	13.7	14.3	28.1	30.7	24.8	28.4	41.3	53.7
MAX	458	199	222	160	97.5	153	199	519	334	163	241	1090	
(WY)	1942	1942	1979	1985	1987	1987	1987	1941	1986	1955	1984	1941	
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
(WY)	1941	1949	1940	1952	1940	1950	1946	1951	1951	1975	1960	1943	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1940 - 1993

ANNUAL TOTAL	10374.11	5381.27	
ANNUAL MEAN	28.4	14.7	26.5
HIGHEST ANNUAL MEAN			181
LOWEST ANNUAL MEAN			1.30
HIGHEST DAILY MEAN	122	382	8380
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		1710	a54800
INSTANTANEOUS PEAK STAGE		19.25	b28.78
INSTANTANEOUS LOW FLOW		.00	.00
ANNUAL RUNOFF (AC-FT)	20580	10670	19230
10 PERCENT EXCEEDS	57	37	67
50 PERCENT EXCEEDS	28	2.3	.00
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

a-From rating curve extended above 3,100 ft³/s, on basis of slope-area measurement of peak flow.

b-Maximum gage height, 28.78 ft, Sept. 22, 1941.

RIO GRANDE BASIN

08390600 TWO RIVERS RESERVOIR NEAR ROSWELL, NM

LOCATION.--08390610 Rio Hondo Reservoir: Lat 33°17'55", long 104°43'20", in SW¼SE¼NE¼ sec.4, T.12 S., R.22 E., Chaves County, Hydrologic Unit 13060008, near center of Diamond A Dam on Rio Hondo, 13 mi southeast of Roswell at mile 33.4. 08390620 Rocky Arroyo Reservoir: Lat 33°16'20", long 104°43'20", in NW¼SE¼NE¼ sec.16, T.12 S., R.22 E., Chaves County, Hydrologic Unit 13060008, near center of Rocky Arroyo Dam on Rocky Arroyo, 13 mi southeast of Roswell at mile 33.4.

DRAINAGE AREA.--1,027 mi²; Rio Hondo, 963 mi²; Rocky Arroyo, 64 mi².

PERIOD OF RECORD.--July 1963 to current year (prior to October 1965 monthend contents only). Prior to October 1966, contents at 0800 hours.

GAGE.--Water-stage recorder. Elevation of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Two Rivers Reservoir, completed July 16, 1963, is formed by earthfill dams on Rio Hondo, which forms Rio Hondo Reservoir, and on Rocky Arroyo, which forms Rocky Arroyo Reservoir. Above elevation 3,980.0 ft, the pools of the two reservoirs combine to form Two Rivers Reservoir with a total capacity of 163,800 acre-ft, at elevation 4,032.0 ft, crest of ungated spillway. Capacity by original survey was 167,900 acre-ft. Capacity of Rio Hondo Reservoir, 142 acre-ft, from capacity table dated January 1990, between elevations 3,957.0 ft, sill of outlet gate, and 3,980.0. Capacity of Rocky Arroyo Reservoir, 12,860 acre-ft, from capacity table dated January 1990, between elevations 3,945.0, sill of outlet gate, and 3,980.0 ft. No dead storage in Rio Hondo Reservoir or Rocky Arroyo Reservoir. Primary objective of project is flood control. Outlet conduits in Rocky Dam have fixed openings. Figures given herein represent total contents at 2400 hours. U.S. Army Corps of Engineers satellite telemeters at stations.

COOPERATION.--Records provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Rio Hondo Reservoir: Maximum contents, 1,260 acre-ft, July 29, 1965, elevation, 3,985.7 ft; no storage most of time. Rocky Arroyo Reservoir: Maximum contents, 6,090 acre-ft, June 18, 1965, elevation, 3,970.7 ft; no storage most of time.

EXTREMES FOR CURRENT YEAR.--Maximum contents, Rio Hondo Reservoir, 490 acre-ft, May 20; elevation 3,984.07 ft; Rocky Arroyo Reservoir, no storage during year; no contents both reservoirs most of time.

CONTENTS, IN ACRE-FEET, AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993
NO CONTENTS AT 2400 HOURS DURING YEAR EXCEPT:

RIO HONDO RESERVOIR

DATE	ELEVATION	CONTENTS	DATE	ELEVATION	CONTENTS
May 11	3980.70	182	May 20	3984.07	490
12	3980.10	146	21	3979.56	119
13	3980.00	141	22	3970.09	3
14	3977.00	33			

ROCKY ARROYO RESERVOIR

No storage during the year.

RIO GRANDE BASIN

08390800 RIO HONDO BELOW DIAMOND A DAM, NEAR ROSWELL, NM

LOCATION.--Lat 33°18'05", Long 104°43'12", in NE¼SE¼NE¼ sec.4, T.12 S., R.22 E., Chaves County, Hydrologic Unit 13060008, on left bank 500 ft downstream from outlet conduit of Diamond A Dam (Two Rivers Reservoir), 13 mi southwest of Roswell, and at mile 33.3.

DRAINAGE AREA.--963 mi², contributing area.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 3,949.68 ft above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions and ground-water withdrawals for irrigation of about 6,500 acres, 1959 determination, upstream from station. This record represents the outflow from Two Rivers Reservoir through Diamond A Dam 0.1 mi upstream; flow from reservoir can also be discharged into Rocky Arroyo through Rocky Dam (see REMARKS for station 08390600). Several observations of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.57	7.5	14	27	22	1.8	.00	.00	31	.00	.00	.00
2	.30	4.2	13	26	22	.53	.00	.00	26	.00	.00	.00
3	.56	1.8	8.7	26	18	.00	.00	.00	21	.00	.00	.00
4	.34	1.6	12	24	15	.00	.00	.00	16	.00	.00	.00
5	.38	.88	12	23	18	.00	.00	.00	8.6	.00	.00	.00
6	.43	1.7	14	22	23	.00	.00	.00	6.8	.00	.00	.00
7	.49	4.1	19	21	22	.00	.00	.00	4.8	.00	.00	.00
8	.55	5.8	18	22	11	.00	.00	.00	2.9	.00	.00	.00
9	.62	3.1	17	22	3.7	.00	.00	.00	2.4	.00	.00	.00
10	.69	2.1	18	22	5.7	.00	.00	1.7	e.85	.00	.00	.00
11	.78	1.8	18	21	6.2	.00	.00	66	e.00	.00	.00	.00
12	.86	.02	18	22	3.5	.00	.00	77	e.00	.00	.00	.00
13	.94	1.1	19	25	2.4	.00	.00	68	e.00	.00	.00	.00
14	1.0	9.1	23	26	3.7	.00	.00	64	e.00	.00	.00	.00
15	1.0	18	21	24	5.0	.00	.00	56	e.00	.00	.00	.00
16	1.1	17	20	24	1.7	.00	.00	34	e.00	.00	.00	.00
17	1.3	19	20	24	.03	.00	.00	21	.00	.00	.00	.00
18	.40	18	25	24	.00	.00	.00	6.2	.00	.00	.00	.00
19	.00	15	29	24	.00	.00	.00	.32	.00	.00	.00	.00
20	.00	16	29	23	.00	.00	.00	41	.00	.00	.00	.00
21	.00	13	30	22	.00	.00	.00	189	.00	.00	.00	.00
22	.00	15	30	22	.70	.00	.00	122	.00	.00	.00	.00
23	.00	7.6	30	24	3.1	.00	.00	76	.00	.00	.00	.00
24	.00	3.6	31	22	2.5	.00	.00	62	.00	.00	.00	.00
25	.00	8.0	31	21	2.3	.00	.00	52	.00	.00	.00	.00
26	.00	12	30	19	1.7	.00	.00	81	.00	.00	.00	.00
27	.00	17	29	18	1.8	.00	.00	87	.00	.00	.00	.00
28	.00	17	27	17	2.1	.00	.00	52	.00	.00	.00	.00
29	.00	18	24	16	---	.00	.00	45	.00	.00	.00	.00
30	.00	17	26	11	---	.00	.00	39	.00	.00	.00	.00
31	3.0	---	26	19	---	.00	---	34	---	.00	.00	---
TOTAL	15.31	276.00	681.7	683	197.13	2.33	0.00	1274.22	120.35	0.00	0.00	0.00
MEAN	.49	9.20	22.0	22.0	7.04	.075	.000	41.1	4.01	.000	.000	.000
MAX	3.0	19	31	27	23	1.8	.00	189	31	.00	.00	.00
MIN	.00	.02	8.7	11	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	30	547	1350	1350	391	4.6	.00	2530	239	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1994, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
MEAN	15.3	12.4	15.8	17.7	15.5	15.7	22.9	18.6	9.18	7.77	26.0	27.4																			
MAX	151	122	118	128	82.9	122	176	127	74.7	52.3	137	116																			
(WY)	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977																			
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000																			
(WY)	1964	1964	1964	1964	1964	1964	1964	1967	1971	1974	1975	1973																			

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1964 - 1994
ANNUAL TOTAL	6204.37	3250.04	
ANNUAL MEAN	17.0	8.90	17.0
HIGHEST ANNUAL MEAN			85.6
LOWEST ANNUAL MEAN			.24
HIGHEST DAILY MEAN	67 Aug 17	189 May 21	459 Sep 8 1965
LOWEST DAILY MEAN	.00 May 28	.00 Oct 19	.00 Oct 1 1963
ANNUAL SEVEN-DAY MINIMUM	.00 Jun 3	.00 Oct 19	.00 Oct 1 1963
INSTANTANEOUS PEAK FLOW		332 May 21	659 Jul 29 1965
INSTANTANEOUS PEAK STAGE		3.55 May 21	4.91 Jul 29 1965
INSTANTANEOUS LOW FLOW		.00 Oct 18	.00 Oct 1 1963
ANNUAL RUNOFF (AC-FT)	12310	6450	12330
10 PERCENT EXCEEDS	45	25	60
50 PERCENT EXCEEDS	14	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

RIO GRANDE BASIN

08393500 RIO HONDO AT ROSWELL, NM

LOCATION.--Lat 33°22'19", long 104°32'42", in NEMSEK sec.7, T.11 S., R.24 E., Chaves County, Hydrologic Unit

1000000, on 2000 ft. 1:250,000 scale map of New Mexico, in Roswell, N.M. 11.7 mi upstream from mouth Mouth at Pecos River mile 546.0

DRAINAGE AREA.--1,070 mi², approximately, (contributing area).

PERIOD OF RECORD.--February 1981 to current year. Records for June 1903 to February 1906, published in WSP 358, are unreliable and should not be used.

GAGE.--Water-stage recorder. Elevation of gage is 3,620 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Two Rivers Reservoir (station 08390600) 21.7 mi upstream. Diversions and ground-water withdrawals for irrigation upstream from station. Several observations of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemeter at station. No flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	1.0	5.1	9.9	.00	.00	.00	e19	.00	.00	.05
2	.00	.00	.02	5.7	e9.9	.00	.00	.00	e14	.00	.00	.00
3	.00	.00	.00	6.7	e3.0	.00	.00	.00	e9.0	.00	.00	.00
4	.00	.00	.00	5.6	e1.0	.00	.00	.00	e4.0	.00	.00	.00
5	.00	.00	.00	6.2	.00	.00	.00	.00	e1.0	.00	.00	.00
6	.00	.00	.00	6.0	.00	.00	.00	.00	e.50	.00	.00	.00
7	.00	.00	1.0	6.6	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	2.5	6.7	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	2.5	7.8	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	1.9	8.0	.00	.00	.00	e.50	.00	.00	.00	.00
11	.00	.00	2.7	7.5	.00	.00	.00	e56	.00	.00	.00	.00
12	.00	.00	5.7	7.3	.00	.00	.00	e67	.00	.00	.00	.00
13	.00	.00	8.3	8.2	.00	.00	.00	e58	.00	.00	.00	.00
14	.00	.00	3.8	8.9	.00	.00	.00	e54	.00	.00	.00	.00
15	.00	.00	4.9	7.9	.00	.00	.00	e45	.00	.00	.00	.00
16	.00	.38	3.8	7.5	.00	.00	.00	e22	.00	.00	.00	.00
17	.00	.23	4.2	7.4	.00	.00	.00	e9.0	.00	.00	.00	.00
18	.00	.00	5.1	6.2	.00	.00	.00	e.00	.00	.00	.00	.00
19	.00	.00	8.2	7.8	.00	.00	.00	e.00	.00	.00	.00	.00
20	.00	.00	11	7.8	.00	.00	.00	e29	.00	.00	.00	.00
21	.00	.00	11	7.4	.00	.00	.00	e179	.00	.00	.00	.00
22	.00	.00	11	8.0	.00	.00	.00	e112	.00	.00	.00	.00
23	.00	.00	10	7.4	.00	.00	.00	e66	.00	.00	.00	.00
24	.00	.00	11	7.1	.00	.00	.00	e52	.00	.00	.00	.00
25	.00	.00	13	5.8	.00	.00	.00	e40	.00	.00	.00	.00
26	.00	.00	9.9	4.0	.00	.00	.00	e70	.00	.00	.00	.00
27	.00	.16	9.6	5.6	.00	.00	.00	e77	.00	.00	.00	.00
28	.00	2.5	8.2	5.2	.00	.00	.00	e40	.00	.00	.00	.00
29	.00	3.1	6.2	3.6	---	.00	.00	e33	.00	.00	.00	.00
30	.00	2.5	3.9	3.5	---	.00	.00	e27	.00	.00	.00	.00
31	.00	---	6.0	3.4	---	.00	---	e22	---	.00	.00	---
TOTAL	0.00	8.87	166.42	201.9	23.80	0.00	0.00	1058.50	47.50	0.00	0.00	0.05
MEAN	.0000	.30	5.37	6.51	.85	.0000	.0000	34.1	1.58	.0000	.0000	.002
MAX	.00	3.1	13	8.9	9.9	.00	.00	179	19	.00	.00	.05
MIN	.00	.00	.00	3.4	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	18	330	400	47	.00	.00	2100	94	.00	.00	.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1994, BY WATER YEAR (WY)

	MEAN	20.8	12.1	24.7	25.8	21.1	19.2	24.8	23.8	11.9	12.9	29.0	23.2
MAX	132	107	114	113	79.9	122	139	110	69.2	99.5	116	92.4	
(WY)	1986	1987	1985	1985	1987	1987	1987	1987	1992	1991	1984	1986	
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1982	1982	1982	1982	1982	1981	1981	1982	1982	1982	1983	1992	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1981 - 1994

ANNUAL TOTAL	2133.01	1507.04	
ANNUAL MEAN	5.84	4.13	21.4
HIGHEST ANNUAL MEAN			74.5
LOWEST ANNUAL MEAN			2.46
HIGHEST DAILY MEAN	55	Jan 13	363
LOWEST DAILY MEAN	.00	Mar 17	.00
ANNUAL SEVEN-DAY MINIMUM	.00	May 7	.00
INSTANTANEOUS PEAK FLOW			a378
INSTANTANEOUS PEAK STAGE			b7.50
INSTANTANEOUS LOW FLOW		.00	.00
ANNUAL RUNOFF (AC-FT)	4230	2990	15470
10 PERCENT EXCEEDS	21	8.2	77
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

a-From rating curve extended above 360 ft/s.

b-Maximum gage height 7.5 ft, May 3, 1981, from floodmarks.

RIO GRANDE BASIN

08395500 PECOS RIVER NEAR LAKE ARTHUR, NM

LOCATION.--Lat 32°59'18", long 104°19'20", in SW¼NE¼ sec.27, T.15 S., R.26 E., Chaves County, Hydrologic Unit 13060007, on left bank 400 ft upstream from bridge on Yuma Road, 2.5 mi east of Lake Arthur, 7 mi upstream from Cottonwood Creek, 11 mi northeast of Artesia, and at mile 522.0.

DRAINAGE AREA.--14,760 mi², approximately (contributing area).

PERIOD OF RECORD.--August 1938 to current year.

GAGE.--Water-stage recorder and rock control. Elevation of gage is 3,327.07 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Lake Summer (station 08384000) 180 mi upstream, since August 1937, and by Two Rivers Reservoir (station 08390600) 77 mi upstream, since July 1963. Diversions and ground-water withdrawals for irrigation of about 124,000 acres, 1959 determination, upstream from station. Several observations of water temperature were made during the year. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 30, 1937, reached a stage of 21.77 ft, discharge, 51,500 ft³/s on basis of slope-area measurement of peak flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	148	81	90	64	490	98	49	829	82	143	313
2	139	146	83	92	59	558	105	60	909	75	149	290
3	133	143	81	88	59	942	100	50	1020	47	150	220
4	126	140	79	84	56	913	94	57	1120	29	361	382
5	206	137	79	85	54	927	92	67	732	25	733	327
6	252	133	80	82	54	884	86	69	821	19	830	201
7	257	112	78	79	54	587	91	60	1100	15	897	157
8	265	101	75	78	51	585	94	46	1080	12	883	123
9	277	95	81	77	48	638	95	46	1030	106	934	109
10	290	88	93	81	45	529	85	47	865	53	942	100
11	421	83	98	80	42	443	82	195	700	44	883	95
12	591	93	97	82	40	433	72	161	407	36	886	89
13	554	95	91	81	33	315	61	430	330	27	899	87
14	586	93	90	79	31	239	60	465	316	24	904	153
15	949	92	89	83	28	197	58	237	326	22	993	101
16	882	96	93	83	27	170	62	194	386	21	924	97
17	899	95	94	82	27	148	60	153	340	24	881	100
18	913	96	91	82	27	128	63	121	253	24	900	89
19	696	96	92	81	26	134	53	102	187	23	938	89
20	558	95	93	78	27	129	44	214	144	18	959	89
21	515	94	96	80	177	130	48	229	108	14	959	86
22	423	92	96	77	206	129	53	212	86	12	932	77
23	289	90	96	73	221	115	51	316	66	9.5	1020	63
24	225	88	93	73	254	105	52	219	54	7.5	1140	60
25	203	85	88	74	265	102	57	135	43	7.4	1050	63
26	193	83	86	73	276	96	46	106	32	13	989	61
27	192	82	89	67	412	94	41	240	27	11	913	61
28	171	81	92	65	490	98	43	184	38	9.1	935	63
29	164	79	94	64	---	109	54	136	78	6.8	640	61
30	157	80	95	63	---	98	44	115	87	71	500	64
31	150	---	95	62	---	96	---	230	---	120	367	---
TOTAL	11840	3031	2758	2418	3153	10561	2044	4945	13514	1007.3	24634	3870
MEAN	382	101	89.0	78.0	113	341	68.1	160	450	32.5	795	129
MAX	949	148	98	92	490	942	105	465	1120	120	1140	382
MIN	126	79	75	62	26	94	41	46	27	6.8	143	60
AC-FT	23480	6010	5470	4800	6250	20950	4050	9810	26810	2000	48860	7680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1994, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1938	252	3701	1942	3.89	1965
1939	123	983	1942	32.0	1968
1940	96.2	546	1942	29.9	1967
1941	94.8	451	1942	34.5	1965
1942	83.8	446	1942	26.6	1965
1943	177	682	1941	16.6	1967
1944	234	1308	1942	7.35	1967
1945	319	3673	1941	11.9	1975
1946	314	2436	1941	4.78	1977
1947	342	1521	1960	1.02	1954
1948	272	913	1941	.42	1964
1949	376	5407	1941	1.30	1964

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1938 - 1994
ANNUAL TOTAL	79022	83775.3	
ANNUAL MEAN	216	230	224
HIGHEST ANNUAL MEAN			1314
LOWEST ANNUAL MEAN			62.2
HIGHEST DAILY MEAN	1800	1140	39800
LOWEST DAILY MEAN	17	6.8	.00
ANNUAL SEVEN-DAY MINIMUM	36	9.2	.10
INSTANTANEOUS PEAK FLOW		1230	a49600
INSTANTANEOUS PEAK STAGE		7.08	21.90
INSTANTANEOUS LOW FLOW		6.3	b.00
ANNUAL RUNOFF (AC-FT)	156700	166200	162400
10 PERCENT EXCEEDS	593	871	660
50 PERCENT EXCEEDS	108	95	69
90 PERCENT EXCEEDS	58	42	14

a-From rating curve extended above 16,100 ft³/s, on basis of slope-area measurements at gage height 21.77 ft.

b-Also occurred in 1947, 1953, 1954, 1962, 1964.

WATER-DISCHARGE RECORDS

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1893 occurred Oct. 2, 1904, discharge not determined; the peak inflow to Lake McMillan, which includes Rio Penasco and Fourmile Draw, was estimated at 82,000 ft³/s. The second highest flood occurred July 25, 1905, discharge downstream from Rio Penasco, 50,300 ft³/s, based on gain in storage and spill from Lake McMillan. The floods in August 1893 and October 1904 damaged McMillan Dam and washed out Avalon Dam.

DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1994. BY WATER YEAR (WY)

e Estimated
a-From a slope-area measurement made at a site 15 mi upstream.
b-Site and datum then in use.

RIO GRANDE BASIN

08396500 PECOS RIVER NEAR ARTESIA, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1937 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREP-TOCOCOCI, KF AGAR (COLS. PER 100 ML) (31673)
DEC 1993												
22...	1245	93	8380	8.3	6.5	6.0	669	10.9	103	69	K4	35
MAR 1994												
01...	1230	444	3580	7.7	12.5	6.0	682	10.0	91	28	K110	750
JUN												
23...	1200	92	4770	8.3	--	14.0	677	10.8	120	84	--	36
SEP												
16...	1200	103	4170	8.1	28.0	20.0	684	8.9	111	31	K400	170

DATE	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CAC03 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD HCO3 (MG/L AS) (00453)	CAR-BONATE WATER DIS IT FIELD CO3 (MG/L AS) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CAC03) (39086)	ALKA-LINITY LAB (MG/L AS CAC03) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
DEC 1993												
22...	2300	2100	590	190	1100	10	4.9	231	0	189	190	1700
MAR 1994												
01...	1600	1500	510	85	250	3	3.7	139	0	114	116	1300
JUN												
23...	1200	1100	340	81	330	4	5.1	132	7	120	83	960
SEP												
16...	1300	1200	340	100	420	5	5.6	117	0	96	97	1100

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
DEC 1993												
22...	2000	1.0	14	5720	1.63	0.070	1.70	0.290	0.70	0.110	0.030	3.6
MAR 1994												
01...	390	0.60	11	2620	0.300	0.010	0.310	0.090	1.0	0.300	<0.010	6.1
JUN												
23...	560	0.60	12	2360	--	<0.010	<0.050	0.020	0.50	0.070	<0.010	5.2
SEP												
16...	740	0.50	13	2780	--	<0.010	0.230	0.050	1.0	0.120	<0.010	5.6

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
DEC 1993												
22...	1	<1	400	<1	<1.0	2	<1	<1	1	50	<5	<1
MAR 1994												
01...	--	--	160	--	--	--	--	--	--	30	--	--
JUN												
23...	--	--	210	--	--	--	--	--	--	10	--	--
SEP												
16...	2	1	250	<1	<1.0	3	<1	4	1	<10	6	<1

RIO GRANDE BASIN

08396500 PECOS RIVER NEAR ARTESIA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA WATER YEAR OCTOBER 1992 TO SEPTEMBER 1994

DATE	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	NITRO- GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO- GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOS- PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD) (01028)
DEC 1993												
22...	<0.10	<0.1	2	2	<10	10	10	13	160	560	2	1
MAR 1994												
01...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
16...	<0.10	<0.1	1	1	590	10	--	--	--	--	--	--

DATE	CHROMIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01053)	MERCURY, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN) (01093)	SEDIMENT, DISCHARGE, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC 1993											
22...	5	<5	3	35000	<10	210	<0.01	<10	--	--	--
MAR 1994											
01...	--	--	--	--	--	--	--	--	1040	1250	66
JUN 23...	--	--	--	--	--	--	--	--	126	31	67
SEP 16...	--	--	--	--	--	--	--	--	182	51	75

LOCATION.--Lat 32°44'36", long 104°24'49", in NE¼SE¼ sec.18, T.18 S., R.26 E., Eddy County, Hydrologic Unit 13060010, on left bank 1.2 mi upstream from U.S. Highway 285, 1.9 mi northwest of old Dayton railway station, 5.6 mi upstream from mouth, and 7.0 mi south of Artesia. Mouth at Pecos River mile 496.4.

GAGE.--Water-stage recorder and rock and concrete control. Elevation of gage is 3,385.19 ft above National Geodetic Vertical Datum of 1929. Prior to May 9, 1968, at site 2.4 mi downstream, at datum 44.30 ft lower. May 9, 1968 to June 12, 1975, at present site at datum 1.98 ft higher.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of about Sept. 22, 1941, reached a stage of about 9 ft, from floodmark, previous site and datum, discharge not determined. Peak discharge at discontinued station "near Dunken" (station 08397600), about 60 mi upstream, was 70,000 ft³/s, determined in 1956, from rating curve extended above a slope-area measurement of 36,000 ft³/s, for peak of Oct. 6 or 7, 1954.

b-From floodmarks, present site and datum.

RIO GRANDE BASIN

08399500 PECOS RIVER (KAISER CHANNEL) NEAR LAKEWOOD, NM

LOCATION.--Lat 32°41'22", long 104°17'53", in NW¼SE¼ sec.5, T.19 S., R.27 E., Eddy County, Hydrologic Unit 13060011, on left bank 3.0 mi upstream from high-water line of former Lake McMillan, 6.0 mi northeast of Lakewood, 12 mi downstream of Alamosa, and at mile 72.1.

NAME OF STREAM. May 1950 to current year. Prior to October 1954, published as Kaiser Lake-McMillan Channel near Lakewood.

GAGE.--Water-stage recorder. Elevation of gage is 3,268.53 ft above National Geodetic Vertical Datum of 1929 (U.S. Bureau of Reclamation bench mark). Prior to Mar. 23, 1955, at site 3.0 mi downstream at datum 7.83 ft lower. Mar. 23, 1955 to Sept. 30, 1963, at present site at datum 2.00 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Considerable flow regulation by Lake Sumner (station 08384000) since August 1937, and by Two Rivers Reservoir (station 08390600) since July 1963. Diversions and ground-water withdrawals for irrigation of about 170,000 acres, 1959 determination, upstream from station. Above about 1,500 ft/s, flow will begin bypassing station and depending on the magnitude and duration of flow, may reach Lake McMillan (station 08400500). Several observations of water temperature were made during the year. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	e134	78	78	69	444	96	35	538	e86	113	344
2	122	e134	78	76	72	456	97	41	856	e80	141	320
3	105	e133	79	78	70	737	100	56	943	e60	141	257
4	99	e131	77	75	69	867	99	44	1080	e32	191	255
5	94	e128	75	71	67	863	93	52	964	e22	427	340
6	177	e120	75	70	66	855	93	64	733	e16	662	383
7	194	e114	76	e69	66	655	89	66	843	e12	724	277
8	212	e107	75	68	68	503	91	60	941	e15	768	181
9	223	e98	73	68	63	518	93	43	959	e100	778	161
10	230	e89	76	67	62	483	92	218	944	e54	811	143
11	233	e81	84	66	60	360	84	e580	937	e42	799	133
12	376	e80	87	65	58	334	80	e460	947	e33	787	127
13	418	e81	83	95	55	289	72	e450	e380	e27	799	120
14	405	e82	e82	78	51	226	61	e410	e320	e25	809	150
15	629	e84	e82	76	46	188	58	e380	e320	e23	832	162
16	784	e85	e84	80	43	168	56	e250	e350	e22	864	130
17	816	e88	e85	81	43	153	59	e180	e310	e23	836	125
18	823	e89	e83	81	42	136	57	143	e250	e23	810	124
19	785	e88	e80	80	42	125	60	126	e200	e22	803	115
20	555	e87	e83	79	43	129	47	133	e160	e21	830	115
21	e450	e88	76	78	58	123	35	226	e125	e19	873	114
22	e340	e88	79	79	193	124	40	220	e100	e15	882	112
23	e260	88	83	79	203	122	44	239	e84	e13	868	104
24	e220	88	79	77	231	111	43	266	e69	e10	933	90
25	e190	84	e76	76	235	104	39	195	e50	e8.0	945	82
26	e170	82	e75	76	234	101	46	158	e43	e13	864	86
27	e170	e80	74	77	286	94	35	180	e33	e11	835	83
28	e160	e80	75	73	458	95	29	258	e43	e10	823	80
29	e150	80	77	71	---	100	32	185	e59	e13	755	79
30	e145	78	79	72	---	105	45	178	e80	e16	519	77
31	e140	---	79	71	---	98	---	157	---	e100	408	---
TOTAL	9817	2869	2447	2330	3053	9666	1965	6053	13661	966.0	21630	4869
MEAN	317	95.6	78.9	75.2	109	312	65.5	195	455	31.2	698	162
MAX	823	134	87	95	458	867	100	580	1080	100	945	383
MIN	94	78	73	65	42	94	29	35	33	8.0	113	77
AC-FT	19470	5690	4850	4620	6060	19170	3900	12010	27100	1920	42900	9660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1994, BY WATER YEAR (WY)

	MEAN	137	83.8	78.0	78.5	71.4	149	160	249	224	275	244	195
MAX	695	306	272	307	291	417	489	1220	547	886	698	800	
(WY)	1955	1987	1987	1987	1987	1987	1987	1973	1992	1960	1994	1988	
MIN	.000	26.1	29.2	31.4	25.3	19.2	8.12	15.3	1.86	.041	.000	.000	
(WY)	1965	1968	1965	1965	1972	1971	1967	1964	1977	1990	1964	1964	

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1950 - 1994
ANNUAL TOTAL	70440	79326.0	
ANNUAL MEAN	193	217	162
HIGHEST ANNUAL MEAN			353
LOWEST ANNUAL MEAN			64.1
HIGHEST DAILY MEAN	1400	1080	2920
LOWEST DAILY MEAN	21	8.0	.00
ANNUAL SEVEN-DAY MINIMUM	37	11	.00
INSTANTANEOUS PEAK FLOW		1130	
INSTANTANEOUS PEAK STAGE		5.98	
INSTANTANEOUS LOW FLOW		7.0	
ANNUAL RUNOFF (AC-FT)	139700	157300	117400
10 PERCENT EXCEEDS	486	780	571
50 PERCENT EXCEEDS	103	94	58
90 PERCENT EXCEEDS	56	43	9.6

e Estimated

LOCATION.--Lat 32°40'20", long 104°22'07". in SW¼NW¼SE¼ sec.10, T.19 S., R.26 E., Eddy County, Hydrologic Unit 13060011, in left side of channel 360 ft downstream from ford on Lakewood-Dayton road, 1.9 mi downstream from U.S. Highway 285, 2.8 mi north of Lakewood, 3.8 mi upstream from mouth, and 11.5 mi south of Artesia. Mouth at Pecos River mile 490.6.

REVISID RECORDS.--WDR NM-68-1: 1967.

GAGE.--Water-stage recorder. Elevation of gage is 3,299.14 ft above National Geodetic Vertical Datum of 1929. Oct. 1, 1951 to June 19, 1962, at site 1.8 mi upstream at datum 30.61 ft higher. June 19, 1962 to Oct. 12, 1966, at site 410 ft upstream at datum 6.08 ft higher.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	33	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	74	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	1.2	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	108.20	0.00	0.00	0.00	0.00
MEAN	.0000	.0000	.0000	.0000	.0000	.0000	.0000	3.49	.0000	.0000	.0000	.0000
MAX	.00	.00	.00	.00	.00	.00	.00	74	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	215	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1994, BY WATER YEAR (WY)

MEAN	1.89	.000	.000	.000	.000	.000	.001	1.00	10.1	3.10	17.7	10.7
MAX	73.0	.003	.000	.000	.000	.000	.047	35.2	403	78.0	488	424
(WY)	1955	1959	1952	1952	1952	1952	1982	1979	1986	1968	1966	1974
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1952	1952	1952	1952	1952	1952	1952	1952	1953	1954	1952	1952

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1952 - 1994

ANNUAL TOTAL				108.20				
ANNUAL MEAN				.30			3.81	
HIGHEST ANNUAL MEAN							41.6	1966
LOWEST ANNUAL MEAN							.000	1969
HIGHEST DAILY MEAN				74	May 11		13000	Aug 23 1966
LOWEST DAILY MEAN	.00	Jan 1		.00	Oct 1		.00	Oct 1 1951
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1		.00	Oct 1		.00	Oct 1 1951
INSTANTANEOUS PEAK FLOW				529	May 11		a29300	Aug 23 1966
INSTANTANEOUS PEAK STAGE				3.23	May 11		b19.90	Aug 23 1966
ANNUAL RUNOFF (AC-FT)				215			2760	
10 PERCENT EXCEEDS	.00			.00			.00	
50 PERCENT EXCEEDS	.00			.00			.00	
90 PERCENT EXCEEDS	.00			.00			.00	

b-From floodmarks, present datum.

RIO GRANDE BASIN

08401200 SOUTH SEVEN RIVERS NEAR LAKEWOOD, NM

LOCATION.--Lat 32°35'19", long 104°25'17", in SE/SE/4NW/4 sec.7, T.20 S., R.26 E., Eddy County, Hydrologic Unit 10000011, on downstream side of center pier of bridge on U.S. Highway 493, 0.4 mi south of Seven Rivers, 2.0 mi upstream from mouth and 4.0 mi southwest of Lakehead. Mouth of Seven River mile 400.

DRAINAGE AREA.--220 mi², approximately.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,280 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to July 8, 1965, at site 400 ft upstream at datum 0.52 ft higher.

REMARKS.--Records good. No surface diversions upstream from station, ground-water withdrawals for 240 acres, upstream from station. Several observations of water temperature were made during the year. No flow most of time.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1941, about 30,000 ft³/s, gage height, 22.8 ft, from old debris on left bank, former site and datum, from rating curve extended above 5,700 ft³/s on basis of slope-area measurement at gage height 21.8 ft. Probable date of flood, Oct. 7, 1954.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	46	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	135	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	2.2	.00	.00	24	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	183.20	0.00	0.00	24.00	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	5.91	.000	.000	.77	.000
MAX	.00	.00	.00	.00	.00	.00	.00	135	.00	.00	24	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	363	.00	.00	48	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1994, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
MEAN	.98	.066	.000	.000	.000	.000	.006	3.05	10.2	1.94	18.5	12.8
MAX	15.9	2.05	.000	.000	.000	.000	.17	83.9	275	28.3	369	237
(WY)	1984	1984	1964	1964	1964	1964	1966	1965	1986	1968	1966	1974
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1964	1964	1964	1964	1964	1964	1964	1966	1964	1965	1964	1965

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1964 - 1994
ANNUAL TOTAL		207.20	
ANNUAL MEAN		.57	3.97
HIGHEST ANNUAL MEAN			31.5
LOWEST ANNUAL MEAN			.000
HIGHEST DAILY MEAN		135	9300
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Aug 23 1966
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00 Oct 1 1963
INSTANTANEOUS PEAK FLOW		1160	a25500
INSTANTANEOUS PEAK FLOW		8.40	b20.00
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (AC-FT)		411	2880
10 PERCENT EXCEEDS	.00	.00	.00
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

a-From rating curve extended above 5,700 ft³/s, on basis of slope-area measurements of gage heights 18.15 ft and 20.0 ft.

b-From floodmarks, present site and datum.

RIO GRANDE BASIN

08401450 BRANTLEY LAKE NEAR CARLSBAD, NM

LOCATION.--Lat 32°32'48", long 104°22'43", in NE¼SE¼NE¼ sec.28, T.20 S., R.26 E., Eddy County, Hydrologic Unit 13060011, in control tower at Brantley Dam, 2.4 mi downstream from South Seven Rivers, 4.2 mi southeast of Seven Rivers, 6.0 mi south of Lakewood, 11.5 mi northwest of Carlsbad, and at mile 478.6.

DRAINAGE AREA.--17,650 mi², approximately (contributing area).

PERIOD OF RECORD.--August 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,202.5 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Lake is formed by a concrete and earthfill dam on Pecos River. Storage began August 31, 1988. Capacity, 1,008,000 acre-ft, from capacity table dated June 1992, between elevations 3,202.5 ft and 3,303.5 ft. Dead storage 2,010 acre-ft. Lake was created primarily for irrigation storage and flood control.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 49,270 acre-ft, Sept. 22-24, 1991, elevation, 3,257.60 ft; minimum contents, 2,040 acre-ft, May 26, 1990, elevation, 3,224.60 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 42,500 acre-ft, Mar. 19, elevation, 3,253.92 ft; minimum, 11,590 acre-ft, Aug. 5, elevation, 3,238.60 ft.

RESERVOIR STORAGE (ACRE-Feet), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 07:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16960	18660	22270	25050	27350	29830	36140	26160	28020	30740	11820	31740
2	16760	18910	22370	25130	27440	30740	35930	26190	28620	29990	11730	31650
3	16590	19050	22500	25240	27510	31530	35700	26080	29580	29460	11730	31840
4	16450	19170	22560	25300	27570	32860	35410	26020	30720	28920	11740	31840
5	16290	19400	22560	25360	27640	34280	35180	25780	32180	28460	11590	31960
6	16120	19520	22680	25470	27730	35780	34510	25660	33200	28130	11910	32100
7	16020	19720	22770	25510	27770	37180	34310	25510	33900	27750	12550	32350
8	15950	19860	22890	25550	27910	38210	34160	25190	34790	27140	13360	32350
9	16000	19980	22950	25610	27970	38980	33850	25220	35620	26380	14090	32270
10	15860	20110	23030	25720	27990	39850	33580	25320	36280	25700	14690	32150
11	16030	20250	23070	25780	28020	40530	33250	26160	36970	25030	15310	31960
12	16080	20340	23190	25850	28080	40990	32860	27420	37230	24490	15790	31890
13	16510	20440	23300	25910	28060	41390	32300	27770	37340	23900	16320	31810
14	16850	20540	23340	26020	28080	41760	31790	28220	37370	23380	17010	31620
15	17200	20690	23440	26060	28130	41910	31190	28920	37500	22660	17890	31340
16	18140	20800	23520	26140	28130	42140	30810	29280	37720	21890	18780	30980
17	19260	20950	23620	26230	28150	42320	30320	29490	37910	21000	19700	30630
18	20060	21060	23720	26310	28170	42410	29930	29560	37990	20180	20530	30270
19	20090	21170	23860	26420	28220	42500	29690	29300	37970	19020	21260	29900
20	20150	21250	23940	26490	28220	42320	29120	28730	37940	17270	22040	29560
21	19790	21380	23980	26530	28240	41530	28730	28580	37610	16280	23010	29190
22	19380	21490	24090	26590	28370	41360	28200	28640	37050	15340	23940	28690
23	18860	21560	24190	26720	28600	40810	27660	28600	36460	14990	25050	27970
24	18220	21700	24270	26830	28400	40360	27270	28670	35700	14480	26100	27460
25	17410	21770	24370	26920	28260	39540	26980	28850	35020	14340	27220	27140
26	17190	21830	24430	26980	28260	38950	26610	28800	34260	14110	28110	26770
27	17480	21940	24510	27050	28620	38180	26590	28710	33300	13920	29050	26490
28	17790	22000	24640	27090	29120	37530	26400	28670	32710	13530	29880	26120
29	18150	22100	24680	27180	---	37150	26270	28830	32030	12940	30790	25590
30	18270	22170	24860	27290	---	36730	26120	28620	31360	12470	31430	24950
31	18450	---	24950	27330	---	36330	---	28380	---	11970	31740	---
MAX	20150	22170	24950	27330	29120	42500	36140	29560	37990	30740	31740	32350
MIN	15860	18660	22270	25050	27350	29830	26120	25190	28020	11970	11590	24950
(†)	3243.40	3245.46	3246.85	3247.97	3248.77	3251.71	3247.41	3248.44	3249.73	3238.91	3249.89	3246.85
(††)	+1300	+3720	+2780	+2380	+1790	+7210	-10210	+2260	+2980	-19390	+19770	-6790

CAL YR 1993 MAX 33330 MIN 15360 (††) +3330
WTR YR 1994 MAX 42500 MIN 11590 (††) +7800

(†) ELEVATION, IN FEET, AT END OF MONTH.
(††) CHANGE IN CONTENTS, IN ACRE-Feet

RIO GRANDE BASIN

08401500 PECOS RIVER BELOW BRANTLEY DAM NEAR CARLSBAD, NM

LOCATION.--Lat 32°32'38", long 104°22'00", in NE1/4 sec.27, T.20 S., R.26 E., Eddy County, Hydrologic Unit 13040011 on left bank 0.8 mi downstream from Brantley Dam 3.2 mi downstream from South Seven Rivers & 7 mi southeast of Seven Rivers, 6.4 mi south of Lakewood, 11.0 mi northwest of Carlsbad, and at mile 477.8.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1947 to September 1950, October 1971 to current year. Prior to October 1989 published as "below Major Johnson Springs." Prior to October 1988, operated as a low-flow station only. Records prior to October 1971 not equivalent due to spring inflow between sites.

GAGE.--Water-stage recorder. Elevation of gage is 3,191.15 ft above National Geodetic Vertical Datum of 1929 (U.S. Bureau of Reclamation reference point). Prior to October 1971, at site 1.3 mi upstream at different datum. October 1971 to June 4, 1985, at site 0.8 mi upstream at datum 7.29 ft higher. Prior to October 1988, at site 0.2 mi downstream at same datum.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Flow completely regulated by Brantley Lake (station 08401450) 0.8 mi upstream since August 1988. Diversions and ground-water withdrawals for irrigation of about 173,000 acres, 1959 determination, upstream from station. Several observations of water temperature were made during the year. U.S. Bureau of Reclamation satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	233	e17	e30	24	23	24	185	18	324	439	185	255
2	202	e16	e30	24	23	18	186	61	342	411	159	165
3	183	e15	e30	24	23	18	185	94	310	358	147	115
4	181	e16	e29	25	23	18	186	126	227	306	245	120
5	180	e18	e28	24	22	18	255	146	189	227	353	159
6	210	e19	e30	22	23	18	284	145	225	191	384	139
7	227	e19	e33	24	23	17	220	178	308	284	352	112
8	198	e20	e32	25	23	17	183	104	372	368	e340	110
9	210	e20	e32	26	23	17	213	84	458	386	393	118
10	162	e20	e33	26	24	16	232	77	465	447	425	117
11	160	e20	e33	26	23	16	267	39	413	390	430	88
12	178	e20	e33	26	23	16	323	25	362	310	430	83
13	208	e20	e36	26	23	16	362	25	282	320	376	99
14	225	e22	e38	25	24	16	372	26	210	370	298	192
15	224	e23	e38	25	24	16	316	26	159	445	270	225
16	181	e23	e39	25	24	16	285	26	140	475	273	235
17	302	e23	e41	25	24	15	259	70	204	478	278	240
18	638	e23	e42	25	23	15	243	185	240	613	286	239
19	739	e24	e39	24	23	67	273	336	210	878	288	238
20	682	e24	e37	25	24	425	288	359	260	788	323	238
21	674	e24	e39	25	25	260	333	340	360	592	267	308
22	670	e24	e42	25	24	301	341	274	399	402	195	394
23	668	e25	e42	25	182	339	309	205	397	290	181	368
24	665	e26	e42	25	289	420	223	185	425	200	213	263
25	585	e26	e42	25	236	443	180	186	475	150	263	222
26	e290	e26	e35	24	101	443	123	156	491	151	252	202
27	e58	e27	e28	24	52	442	90	137	428	207	234	217
28	e15	e28	23	23	27	328	90	138	391	311	236	304
29	e16	e28	23	23	---	269	110	205	388	305	235	373
30	e16	e29	23	23	---	319	62	243	422	286	237	389
31	e17	---	23	23	---	246	---	274	---	216	252	---
TOTAL	9197	665	1045	761	1401	4609	6978	4493	9876	11594	8800	6327
MEAN	297	22.2	33.7	24.5	50.0	149	233	145	329	374	284	211
MAX	739	29	42	26	289	443	372	359	491	878	430	394
MTN	15	15	23	22	22	15	62	18	140	150	147	82
AC-FT	18240	1320	2070	1510	2780	9140	13840	8910	19590	23000	17450	12550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1994, BY WATER YEAR (WY)

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
MEAN	136	45.9	54.1	48.5	54.6	71.5	227	209	214	204	195	175											
MAX	322	222	460	297	300	149	307	1058	641	402	299	500											
(WY)	1993	1992	1992	1987	1987	1994	1986	1973	1992	1992	1993	1991											
MIN	22.6	5.92	5.13	8.84	20.6	19.1	136	79.9	66.5	11.3	18.4	50.9											
(WY)	1979	1989	1989	1989	1978	1990	1981	1976	1977	1976	1981	1976											

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1972 - 1994
ANNUAL TOTAL	65588	65746	
ANNUAL MEAN	180	180	141
HIGHEST ANNUAL MEAN			282
LOWEST ANNUAL MEAN			69.5
HIGHEST DAILY MEAN	833	878	2050
LOWEST DAILY MEAN	15	15	.31
ANNUAL SEVEN-DAY MINIMUM	16	16	.33
INSTANTANEOUS PEAK FLOW		985	a4160
INSTANTANEOUS PEAK STAGE		9.23	c9.23
INSTANTANEOUS LOW FLOW		15	.29
ANNUAL RUNOFF (AC-FT)	130100	130400	102500
10 PERCENT EXCEEDS	367	398	320
50 PERCENT EXCEEDS	175	160	77
90 PERCENT EXCEEDS	20	22	22

e Estimated

a-From rating curve extended above 780 ft/s.

b-Also occurred July 24, 1950.

c-Site and datum then in use.

RIO GRANDE BASIN

08401500 PECOS RIVER BELOW BRANTLEY DAM NEAR CARLSBAD, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960, 1962, 1978-79, 1981 to current year.

REMARKS.--This station prior to Brantley Dam was called Pecos River below Major Johnson Springs near Carlsbad, NM.

WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
NOV 13...	1030	22	4540	8.2	11.5	7.5	695	11.3	105	1400	390	95
JAN 04...	1505	21	6360	7.1	10.5	3.5	691	11.0	94	--	--	--
MAR 16...	1015	37	--	8.0	23.5	9.0	692	10.8	--	2000	500	190
APR 01...	1450	236	6900	8.1	21.5	15.0	678	9.1	104	1700	450	150
JUN 04...	1315	179	4320	8.1	29.0	22.0	676	8.2	108	1500	430	97
AUG 12...	1410	261	2080	7.7	34.0	25.0	679	7.4	102	750	230	42

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
NOV 13...	360	4	5.4	124	1300	530	0.60	12	2770	230	30
JAN 04...	--	--	--	--	--	--	--	--	--	--	--
MAR 16...	1000	10	7.1	142	1700	1700	--	9.7	5200	360	<10
APR 01...	740	8	6.6	116	1500	1200	0.80	6.6	4120	320	<10
JUN 04...	410	5	5.6	96	1400	680	1.0	8.3	3090	220	<10
AUG 12...	170	3	3.8	73	700	250	0.50	10	1450	110	<10

RIO GRANDE BASIN

08401900 ROCKY ARROYO AT HIGHWAY BRIDGE, NEAR CARLSBAD, NM

LOCATION.--Lat 32°30'23", long 104°22'28", in SE¼SE¼ sec.3, T.21 S., R.25 E., Eddy County, Hydrologic Unit 13060011, at downstream end of bridge pier nearest left bank on U.S. Highway 285. 2.1 mi upstream from mouth and 10 mi northwest of Carlsbad. Mouth at Pecos River mile 475.2.

DRAINAGE AREA.--200 mi², approximately.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,250 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to February 1985, at site 60 ft downstream at same datum.

REMARKS.--Records good. Diversions for irrigation of 220 acres, upstream from station. Several observations of water temperature were made during the year. No flow during water year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Since about 1941 the maximum discharge probably occurred Oct. 7, 1954, discharge, 63,600 ft³/s, gage height, 19.2 ft, from floodmarks, on downstream end of bridge pier, by slope-area measurement at site 5 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	61	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.16	18	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	186	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.50	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.16	18.00	0.00	186.50	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	1.97	.60	.000	6.02	.000
MAX	.00	.00	.00	.00	.00	.00	.00	61	18	.00	186	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	121	36	.00	370	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1994, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
MEAN	9.94	.27	.018	.000	.000	.000	.067	2.51	18.4	2.84	25.8	21.8
MAX	185	7.67	.56	.002	.000	.000	1.50	37.6	468	19.3	616	335
(WY)	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1964 - 1994

ANNUAL TOTAL	265.66		
ANNUAL MEAN	.73		
HIGHEST ANNUAL MEAN		6.82	
LOWEST ANNUAL MEAN		53.9	1966
HIGHEST DAILY MEAN	186	Aug 21	13900
LOWEST DAILY MEAN	.00	Oct 1	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 1	.00
INSTANTANEOUS PEAK FLOW	1490	Aug 21	a31600
INSTANTANEOUS PEAK STAGE	7.56	Aug 21	15.35
INSTANTANEOUS LOW FLOW	.00	Oct 1	
ANNUAL RUNOFF (AC-FT)	527		4940
10 PERCENT EXCEEDS	.00	.00	.00
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

a-From rating curve extended above 8,500 ft³/s, on basis of slope-area measurement of peak flow.

RIO GRANDE BASIN

08402000 PECOS RIVER AT DAMSITE 3, NEAR CARLSBAD, NM

LOCATION.--Lat 32°30'40", long 104°19'58", sec.6, T.21 S., R.26 E., Eddy County, Hydrologic Unit 13060011, on right bank at damsite 3 of Carlsbad Project of Bureau of Reclamation, about 1 mi upstream from flow line of Lake Avalon, 1.3 mi downstream from Rocky Arroyo, 8.0 mi northwest of Carlsbad, and at mile 473.8.

DRAINAGE AREA.--17,980 mi², approximately (contributing area).

PERIOD OF RECORD.--August 1939 to December 1940, August 1944 to current year.

REVISED RECORDS.--WSP 1512: 1946-47(M), 1948(P), 1949, 1950(P). WSP 1712: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 3,171.31 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). Prior to Aug. 10, 1944, at site 1,000 ft downstream at datum 1.00 ft higher. Aug. 10, 1944 to Dec. 31, 1966, at present datum 1.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Brantley Lake (station 08401450) 4.8 mi upstream and other reservoirs and diversion dams. Diversions and ground-water withdrawals for irrigation of about 17,300 acres, 1959 determination, upstream from station. Discharge represents inflow to Lake Avalon. Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Peaks that probably exceeded 40,000 ft³/s occurred in Aug. 1893, Oct. 2, 1904, July 25, 1905, Apr. 17, 1915, Aug. 7, 1916, and May 30, 1937, based primarily on records for station "at Carlsbad." Peak of May 22, 1941, was estimated at 60,000 ft³/s. Floods of 1893 and 1904 originated upstream from McMillan Dam and contributed to the two failures of Avalon Dam.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	218	16	29	25	21	25	207	20	298	425	e185	272
2	198	16	30	25	21	20	206	42	319	402	e160	197
3	173	15	30	25	21	19	205	81	295	348	e150	119
4	168	15	29	26	22	20	204	106	218	294	e245	120
5	168	17	27	24	23	21	247	130	173	222	e350	150
6	191	18	28	23	22	21	280	129	203	176	e385	152
7	211	19	32	25	22	22	230	152	279	255	e350	127
8	193	19	31	24	22	23	181	108	348	355	e340	124
9	195	20	31	24	23	21	207	73	432	378	387	124
10	167	20	33	27	23	21	230	230	460	432	425	124
11	144	20	33	25	23	22	258	36	409	397	425	105
12	153	20	31	25	23	23	310	23	362	304	429	81
13	193	20	35	25	24	24	350	21	292	308	387	100
14	219	20	37	22	24	22	365	19	218	358	309	176
15	197	22	38	22	25	23	319	19	174	433	274	229
16	170	23	38	22	23	22	276	19	e149	472	272	229
17	250	22	40	23	23	29	254	44	e205	472	278	229
18	568	22	41	24	23	25	232	154	e239	601	279	229
19	732	23	40	24	23	26	257	304	e217	904	280	229
20	658	24	37	24	24	391	279	353	e260	e785	308	226
21	657	24	37	24	25	339	305	327	361	e590	407	277
22	649	24	41	24	25	285	326	268	406	e400	196	362
23	646	24	41	24	150	362	303	194	404	e290	173	355
24	643	25	41	24	299	418	227	168	421	e200	204	260
25	485	26	41	24	246	461	171	174	470	e150	260	205
26	156	26	41	23	119	462	126	146	487	e150	258	189
27	16	26	30	26	47	461	79	122	428	e205	232	192
28	14	27	26	23	30	359	77	124	379	e310	236	268
29	15	28	25	22	---	288	77	177	376	e305	235	342
30	15	28	25	22	---	337	56	224	405	e290	232	365
31	15	---	25	20	---	279	---	249	---	e215	254	---
TOTAL	8477	649	1043	740	1396	4871	6844	4236	9687	11426	8905	6157
MEAN	273	21.6	33.6	23.9	49.9	157	228	137	323	369	287	205
MAX	732	28	41	27	299	462	365	353	487	904	429	365
MIN	14	15	25	20	21	19	56	19	149	150	150	81
AC-FT	16810	1290	2070	1470	2770	9660	13580	8400	19210	22660	17660	12210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1994, BY WATER YEAR (WY)

	190	75.2	75.2	65.4	68.3	85.6	251	191	223	240	266	216
MEAN	190	75.2	75.2	65.4	68.3	85.6	251	191	223	240	266	216
MAX	2609	464	421	284	293	382	345	1055	1892	794	2267	1156
(WY)	1955	1987	1992	1987	1987	1987	1945	1973	1986	1960	1966	1974
MIN	9.91	5.71	3.87	6.26	19.5	17.7	133	46.4	18.6	10.8	21.5	12.3
(WY)	1965	1989	1989	1989	1993	1965	1981	1946	1946	1976	1947	1964

SUMMARY STATISTICS FOR 1993 CALENDAR YEAR FOR 1994 WATER YEAR WATER YEARS 1939 - 1994

ANNUAL TOTAL	63422	64431	
ANNUAL MEAN	174	177	163
HIGHEST ANNUAL MEAN			395
LOWEST ANNUAL MEAN			66.8
HIGHEST DAILY MEAN	876	Jul 20	904
LOWEST DAILY MEAN	14	Oct 28	14
ANNUAL SEVEN-DAY MINIMUM	15	Oct 28	15
INSTANTANEOUS PEAK FLOW			1060
INSTANTANEOUS PEAK STAGE			4.00
INSTANTANEOUS LOW FLOW			1.5
ANNUAL RUNOFF (AC-FT)	125800	127800	117800
10 PERCENT EXCEEDS	362	401	336
50 PERCENT EXCEEDS	158	153	92
90 PERCENT EXCEEDS	19	22	22

e Estimated

a-From rating curve extended above 25,000 ft³/s, on basis of slope-area measurement at gage height 19.53 ft.

b-From floodmarks at present datum.

RIO GRANDE BASIN

08403500 CARLSBAD MAIN CANAL AT HEAD, NEAR CARLSBAD, NM

LOCATION.--Lat 32°29'25", long 104°15'08", in NW¼SW¼ sec.12, T.21 S., R.26 E., Eddy County, Hydrologic Unit 13060011, on right bank 220 ft downstream from headgates in Avalon Dam, and 3.3 mi north of Carlsbad. Pecos River mile 467.2.

REMARKS FOR DEWEY: Data 1993 to 1994 from monthly discharge data, data 1993 to 1994 from 1993 to 1994. January 1991 to March 1951 published in WSP 1/32.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 3,156.50 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). Prior to March 1951, at site 20 ft upstream at datum 0.9 ft higher.

REMARKS.--Records good. Carlsbad Main Canal diverts water from Lake Avalon (station 08403800) for irrigation of about 25,000 acres in the Carlsbad Irrigation District. About 1,600 acres are irrigated on the left bank, most of it upstream from gaging station 08405200. The remaining acreage (most of which is downstream from station 08405200) is on the right bank. Several observations of water temperature were made during the year. No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	215	.00	.00	.00	.00	e16	164	45	275	368	212	208
2	183	.00	.00	.00	.00	e16	129	100	283	372	198	135
3	168	.00	.00	.00	.00	e16	187	124	225	332	193	152
4	171	.00	.00	.00	.00	e16	244	128	224	237	267	162
5	202	.00	.00	.00	.00	e16	244	141	197	202	323	148
6	216	.00	.00	.00	.00	e16	237	143	240	250	304	156
7	198	.00	.00	.00	.00	e16	216	87	306	338	302	143
8	241	.00	.00	.00	.00	e16	196	135	361	352	313	125
9	221	.00	.00	.00	.00	e16	229	168	374	353	367	116
10	181	.00	.00	.00	.00	e16	244	117	369	348	372	84
11	184	.00	.00	.00	.00	e16	265	70	321	310	374	79
12	191	.00	.00	.00	.00	e16	288	.00	276	282	363	78
13	202	.00	.00	.00	.00	e16	315	.00	255	342	288	125
14	196	.00	.00	.00	.00	e16	293	.00	172	361	224	169
15	182	.00	.00	.00	.00	e16	264	.00	150	362	265	193
16	136	.00	.00	.00	.00	e16	229	.00	161	339	258	207
17	119	.00	.00	.00	.00	e19	209	95	224	279	287	207
18	120	.00	.00	.00	.00	e113	251	271	219	272	290	189
19	49	.00	.00	.00	.00	e113	260	330	211	260	288	198
20	.00	.00	.00	.00	102	e113	275	315	258	282	296	234
21	.00	.00	.00	.00	180	e113	308	289	306	273	231	290
22	.00	.00	.00	.00	231	e293	325	222	337	241	208	335
23	.00	.00	.00	.00	268	372	297	164	355	202	196	283
24	53	.00	.00	.00	288	375	217	149	358	192	210	211
25	124	.00	.00	.00	268	373	153	171	371	217	250	204
26	181	.00	.00	.00	208	369	94	182	374	219	204	225
27	177	.00	.00	.00	90	357	115	185	366	229	208	239
28	150	.00	.00	.00	e16	315	124	191	365	251	204	285
29	140	.00	.00	.00	---	287	86	203	364	231	225	281
30	101	.00	.00	.00	---	267	51	210	356	195	252	198
31	44	---	.00	.00	---	198	---	248	---	170	267	---
TOTAL	4345.00	0.00	0.00	0.00	1651.00	3933	6509	4483.00	8653	8661	8239	5659
MEAN	140	.000	.000	.000	59.0	127	217	145	288	279	266	189
MAX	241	.00	.00	.00	288	375	325	330	374	372	374	335
MIN	.00	.00	.00	.00	.00	16	51	.00	150	170	193	78
AC-FT	8620	.00	.00	.00	3270	7800	12910	8890	17160	17180	16340	11220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1994, BY WATER YEAR (WY)

	MEAN	78.6	3.74	7.79	12.1	24.1	73.5	247	128	156	199	203	142
MAX	212	112	172	120	208	227	386	222	297	391	463	298	
(WY)	1980	1955	1947	1956	1950	1940	1943	1973	1942	1940	1943	1939	
MIN	.000	.000	.000	.000	.000	.000	.000	167	6.58	.000	.000	2.81	.000
(WY)	1953	1942	1941	1942	1941	1948	1967	1953	1953	1976	1981	1964	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1939 - 1994

ANNUAL TOTAL	49316.30	52133.00	
ANNUAL MEAN	135	143	105
HIGHEST ANNUAL MEAN			174
LOWEST ANNUAL MEAN			51.8
HIGHEST DAILY MEAN	388	Jun 17	375
LOWEST DAILY MEAN	.00	Jan 1	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00
ANNUAL RUNOFF (AC-FT)	97820	103400	76180
10 PERCENT EXCEEDS	297	322	293
50 PERCENT EXCEEDS	149	152	65
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

a-Also occurred Sept. 16, 1946.

RIO GRANDE BASIN

08403800 LAKE AVALON NEAR CARLSBAD, NM

LOCATION.--Lat 32°29'27", long 104°15'05", in NW¼SW¼ sec.12, T.21 S., R.26 E., Eddy County, Hydrologic Unit 13060011, on headwall at outlet gate of dam on Pecos River, 3.3 mi north of Carlsbad, and at mile 467.2.

DRAINAGE AREA.--18,070 mi², approximately (contributing area).

PERIOD OF RECORD.--January 1939 to September 1965 (monthend gage heights and contents), October 1965 to current year. Monthend gage heights January 1919 to December 1938 in files of Pecos River Commission.

REVISED RECORDS.--WSF 898: 1939.

GAGE.--Nonrecording gage. Elevation of gage is 3,157.0 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Lake is formed by Avalon Dam, an earthfill structure. The original Eddy (Avalon) Dam was completed and storage began in 1891. The dam was destroyed by the flood of Aug. 3, 1893; repaired immediately. The dam was destroyed again Oct. 2, 1904; construction of present dam commenced on June 1, 1906, and was 88 percent complete June 30, 1907. Capacity, 4,330 acre-ft, from capacity table put into use January 1, 1982, between gage heights 0.0 (sill of outlet gates) and 20.4 ft, crest of spillway no. 2. No dead storage. No storage allocated to flood control. Figures given herein represent usable contents. Water is used by Carlsbad Irrigation District.

COOPERATION.--Records provided by Carlsbad Irrigation District.

EXTREMES FOR PERIOD OF RECORD (SINCE 1938).--Maximum contents, 11,000 acre-ft, May 22, 1941, gage height, 25.0 ft; no storage at times when natural flow is passing through reservoir.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 3,030 acre-ft, Feb. 10-20, elevation, 3,174.6 ft; minimum, 73 acre-ft, Mar. 4-20, elevation; 3,169.2 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 08:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	391	1150	1280	1890	391	919	1210	919	1210	1340	1090
2	1090	454	1210	1280	1960	391	919	1280	975	1280	1340	1280
3	1150	454	1210	1340	1960	214	975	1210	1030	1280	1210	1210
4	1090	454	1280	1410	1960	73	1030	1090	1030	1280	1030	1150
5	1150	493	1280	1410	1960	73	1030	1090	975	1410	975	1150
6	1090	493	1340	1470	1960	73	1030	1030	1030	1340	919	1090
7	1090	532	1340	1410	1960	73	1090	1150	975	1150	975	1090
8	1150	532	975	1410	1960	73	1030	1150	919	1030	1030	1090
9	1150	573	662	1470	1960	73	1030	1030	811	975	975	1090
10	1090	573	662	1470	2030	73	975	975	919	975	975	1090
11	1030	573	662	1470	2030	73	864	1410	975	975	975	1090
12	1030	662	710	1540	2030	73	864	1280	1030	1280	975	1090
13	975	662	710	1540	2030	73	811	1280	1210	1210	1090	1030
14	1030	710	710	1540	2030	73	864	1280	1210	1210	1210	975
15	1090	710	760	1610	2030	73	975	1340	1280	1150	1340	975
16	1090	760	760	1610	2030	73	975	1340	1210	1280	1280	1030
17	1150	760	811	1610	2030	73	1030	1280	1090	1410	1280	1030
18	1820	811	811	1610	2030	73	1090	1150	1030	1610	1210	1090
19	1540	864	864	1680	2030	73	1030	975	975	1210	1150	1150
20	1540	864	864	1680	2030	73	1030	919	975	1340	1210	1150
21	1540	864	864	1680	1750	864	975	1030	975	1410	1280	1030
22	1540	919	919	1680	1410	864	919	1150	975	1210	1280	919
23	1540	919	919	1750	919	864	975	1210	1030	1340	1210	975
24	1470	975	975	1750	811	760	1090	1210	975	1540	1150	1030
25	1340	975	1030	1750	811	760	1210	1280	1030	1410	1090	1090
26	1340	1030	1090	1820	760	760	1340	1280	1210	1280	1150	1280
27	1210	1030	1150	1820	616	760	1280	1210	1280	1090	1150	1150
28	919	1090	1210	1820	616	864	1210	975	975	975	1210	864
29	710	1090	1210	1890	---	811	1150	919	1210	1090	1210	662
30	532	1150	1210	1890	---	760	1150	919	1150	1210	1150	1210
31	423	---	1280	1890	---	919	---	919	---	1280	1090	---
MAX	1820	1150	1340	1890	2030	919	1340	1410	1280	1610	1340	1280
MIN	423	391	662	1280	616	73	811	919	811	975	919	662
(†)	3171.8	3173.3	3173.5	3174.4	3172.3	3172.9	3173.3	3172.9	3173.3	3173.5	3173.2	3173.4
(††)	-787	+727	+130	+610	-1274	-303	+231	-231	+231	+130	-190	+120
CAL YR 1993	MAX 2480	MIN 391	(††) -60									
WTR YR 1994	MAX 2030	MIN 73	(††) 0									

(†) ELEVATION, IN FEET, AT END OF MONTH.

(††) CHANGE IN CONTENTS, IN ACRE-FEET.

RIO GRANDE BASIN

08404000 PECOS RIVER BELOW AVALON DAM, NM

LOCATION.--Lat 32°28'55", long 104°15'47", in SW1/4SW1/4 sec.14, T.21 S., R.26 E., Eddy County, Hydrologic Unit 13060011, on right bank 4,800 ft downstream from Avalon Dam, 4.5 mi northwest of Carlsbad, and at mile 466.3.

DRAINAGE AREA.--18,080 mi², approximately (contributing area).

PERIOD OF RECORD.--January 1906 to March 1907 (published as "at Avalon"), June 1951 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,130 ft above National Geodetic Vertical Datum of 1929, from topographic map. January 1906 to March 1907, nonrecording gage at site 0.5 mi upstream at different datum.

REMARKS.--Records good. Flow completely regulated by Lake Avalon (station 08403800) 0.9 mi upstream. Diversions and ground-water withdrawals upstream from station for irrigation of about 198,000 acres, 1959 determination. Station bypassed by Carlsbad Main Canal (station 08403500). Several observations of water temperature were made during the year. No flow most of time.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 2, 1904, caused in part by failure of Avalon Dam, probably exceeded 90,000 ft³/s, and is probably the greatest flood since 1842. A major flood occurred Aug. 3, 1893, and was described as "greatest in 50 years"; it damaged McMillan Dam, then under construction, and washed out the original Avalon Dam. Another major flood occurred Aug. 7, 1916, discharge 70,000 ft³/s, at site 6.5 mi downstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	178	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	9.9	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	77	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	199	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	63	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.07	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	3.8	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.39	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00
18	404	.00	.00	.00	.00	e.00	.00	.00	.00	395	.00	.00
19	609	.00	.00	.00	.00	e.00	.00	.00	.00	569	.00	.00
20	615	.00	.00	.00	.00	e.00	.00	.00	.00	465	.00	.00
21	615	.00	.00	.00	.00	e.00	.00	.00	.00	353	.00	.00
22	618	.00	.00	.00	.00	e.00	.00	.00	.00	150	.00	.00
23	618	.00	.00	.00	.00	.00	.00	.00	.00	1.8	.00	.00
24	613	.00	.00	.00	.00	.00	.00	.00	.00	.26	.00	.00
25	447	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	1.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.85	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	4540.00	0.00	339.07	0.00	85.00	192.17	0.00	0.00	0.00	1934.06	0.00	0.00
MEAN	146	.000	10.9	.000	3.04	6.20	.000	.000	.000	62.4	.000	.000
MAX	618	.00	199	.00	85	178	.00	.00	.00	569	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	9010	.00	673	.00	169	381	.00	.00	.00	3840	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1994, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1951	98.9	2365	1955	.000	1952
1952	23.3	445	1987	.000	1952
1953	24.8	435	1992	.000	1952
1954	10.8	237	1987	.000	1952
1955	12.2	255	1987	.000	1952
1956	4.99	188	1987	.000	1952
1957	1.39	59.6	1987	.000	1952
1958	41.7	739	1973	.000	1952
1959	60.4	1832	1986	.000	1951
1960	28.3	595	1960	.000	1951
1961	63.1	2034	1966	.000	1951
1962	56.6	1113	1974	.000	1951

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1951 - 1994
ANNUAL TOTAL	9061.47	7090.30	
ANNUAL MEAN	24.8	19.4	36.1
HIGHEST ANNUAL MEAN			206
LOWEST ANNUAL MEAN			.000
HIGHEST DAILY MEAN	618	618	33600
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		750	a55500
INSTANTANEOUS PEAK STAGE		6.56	b26.40
INSTANTANEOUS LOW FLOW		.00	.00
ANNUAL RUNOFF (AC-FT)	17970	14060	26170
10 PERCENT EXCEEDS	.00	.00	.00
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

a-From rating curve extended above 33,000 ft³/s, on basis of computation of peak flow over Tansill Dam 5.8 mi downstream.

b-From floodmarks.

RIO GRANDE BASIN

08405150 DARK CANYON DRAW AT CARLSBAD, NM

LOCATION.--Lat 32°24'24", long 104°13'34", in NE¼NW¼SE¼ sec.7, T.22 S., R.27 E., Eddy County, Hydrologic Unit 13060011, on downstream side of bridge on Canal Street in Carlsbad, and 0.6 mi upstream from mouth. Mouth at Pecos River mile 459.2.

DRAINAGE AREA.--450 mi², approximately.

PERIOD OF RECORD.--January 1973 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,088.21 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. A Soil Conservation Service flood-control project on Hackberry Draw, an upstream tributary, has some effect on flood peaks and flow duration. Ground-water withdrawals upstream from station for irrigation of approximately 2,100 acres, 1973 determination, and for municipal supply for Carlsbad. Several observations of water temperature were made during the year. No flow most of time

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 23, 1966, reached a discharge of 66,000 ft³/s, as determined by slope-area measurement at site 1.2 mi upstream. Another flood of approximately the same magnitude occurred Sept. 20, 1941. Other major peaks occurred July 17, 1906, July 24, 1908, July 24, 1911, Apr. 18, 1915, Aug. 8, 1916, Sept. 15, 1919, Aug. 4, 1925, and May 23, 1941.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	140	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.4	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	146.40	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	4.72	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	140	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	290	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1994, BY WATER YEAR (WY)

	MEAN	9.33	.94	.000	.000	.000	.000	.000	.51	17.8	.56	7.66	30.4
MAX	196	19.7	.000	.000	.000	.000	.000	8.81	386	12.4	162	331	
(WY)	1975	1979	1974	1973	1973	1973	1973	1979	1986	1981	1984	1980	
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
(WY)	1974	1974	1974	1973	1973	1973	1973	1973	1973	1973	1973	1973	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1973 - 1994

ANNUAL TOTAL	146.40												
ANNUAL MEAN	.40												
HIGHEST ANNUAL MEAN													
LOWEST ANNUAL MEAN													
HIGHEST DAILY MEAN	140	Aug 21	8750	Sep 26	1980								
LOWEST DAILY MEAN	.00	Oct 1	.00	Jan 1	1973								
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 1	.00	Jan 1	1973								
INSTANTANEOUS PEAK FLOW	1250	Aug 21	a27000	Sep 26	1980								
INSTANTANEOUS PEAK STAGE	4.52	Aug 21	b12.53	Jun 24	1986								
INSTANTANEOUS LOW FLOW	.00	Oct 1	.00	Oct 1	1993								
ANNUAL RUNOFF (AC-FT)	290		4190										
10 PERCENT EXCEEDS	.00		.00										
50 PERCENT EXCEEDS	.00		.00										
90 PERCENT EXCEEDS	.00		.00										

a-From rating curve extended above 7,100 ft³/s.

b-Maximum gage height, 12.53 ft, June 24, 1986.

RIO GRANDE BASIN

08405200 PECOS RIVER BELOW DARK CANYON DRAW, AT CARLSBAD, NM

LOCATION.--Lat 32°24'37", long 104°12'58", in NEWSW&NW sec.8, T.22 S., R.27 E., Eddy County, Hydrologic Unit 13060011, on left bank 700 ft downstream from mouth of Dark Canyon Draw, 0.3 mi downstream from Lower Tansill Dam and Ratan recreational area 0.8 mi downstream from bridge on U.S. Highway 62-180 in Carlsbad and at mile 459.1.

DRAINAGE AREA.--18,550 mi², approximately, contributing area.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1970 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 3,075.19 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good except for estimated daily discharge, which are poor. Flow regulated by Lake Avalon (station 08403800) 8.1 mi upstream and by several other reservoirs and up to Nov. 1982 at low stages by power plant. Power plant discontinued operation Nov. 1982. Gage is bypassed on left bank by Carlsbad Main Canal East, which irrigates several hundred acres adjacent to and downstream from gage and on right bank by Carlsbad Main Canal South, which with supplemental ground-water withdrawals irrigates about 23,000 acres downstream. Diversions and ground-water withdrawals upstream from station for irrigation of about 198,000 acres, 1959 determination. U.S. Bureau of Reclamation satellite telemeter at station. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 23, 1966, reached a stage of about 22 ft, discharge not determined. (For dates of other historical floods see station 08404000.)

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	22	22	19	77	45	9.4	12	14	10	15	19
2	13	21	21	21	74	25	11	13	14	8.9	19	21
3	14	20	20	20	72	14	4.5	14	15	10	19	21
4	12	21	19	18	48	14	6.0	14	18	10	18	24
5	11	20	21	20	46	16	6.1	13	15	10	15	23
6	13	19	19	23	43	17	6.7	13	14	14	14	18
7	16	19	21	17	41	17	8.3	12	14	20	14	16
8	16	20	216	18	41	19	8.9	12	17	22	11	14
9	16	20	128	18	37	17	11	12	17	23	10	13
10	16	20	23	19	35	12	15	35	17	21	9.1	16
11	13	19	18	18	38	10	12	13	17	20	8.5	21
12	12	20	23	19	40	16	9.0	18	15	30	8.8	18
13	13	22	17	19	38	22	9.3	13	15	39	8.4	17
14	13	22	18	18	38	11	9.9	13	16	e41	8.2	14
15	13	21	20	18	38	17	14	12	14	e48	7.7	14
16	13	23	20	21	38	16	9.8	12	13	e53	7.2	14
17	16	22	18	18	38	12	8.5	11	12	e59	8.8	19
18	269	23	18	18	38	15	9.3	15	11	e192	12	20
19	672	23	19	18	38	10	8.9	22	11	489	13	20
20	658	21	18	18	34	9.5	9.4	18	11	452	12	19
21	655	22	19	17	34	8.1	11	14	12	372	115	16
22	654	23	18	17	34	6.6	12	18	16	235	11	15
23	654	25	22	19	31	6.5	11	15	20	19	13	14
24	648	26	16	19	31	6.3	11	17	17	14	11	15
25	566	24	19	19	16	5.7	11	15	16	13	9.9	15
26	48	23	20	19	2.8	10	10	16	18	13	9.6	15
27	28	23	21	17	2.6	5.1	15	15	18	11	9.0	16
28	27	22	20	41	3.7	9.4	14	15	14	12	11	15
29	27	21	19	80	---	11	14	15	11	13	11	15
30	23	21	18	79	---	11	16	15	11	13	14	14
31	23	---	21	76	---	10	---	19	---	13	39	---
TOTAL	5185	648	912	781	1047.1	424.2	312.0	471	443	2299.9	492.2	511
MEAN	167	21.6	29.4	25.2	37.4	13.7	10.4	15.2	14.8	74.2	15.9	17.0
MAX	672	26	216	80	77	45	16	35	20	489	115	24
MIN	11	19	16	17	2.6	5.1	4.5	11	11	8.9	7.2	13
AC-FT	10280	1290	1810	1550	2080	841	619	934	879	4560	976	1010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1994, BY WATER YEAR (WY)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
MEAN	69.7	56.4	51.0	39.7	42.5	32.4	20.9	63.9	129	43.0	42.3	131													
MAX	727	527	367	319	305	249	103	702	2041	345	674	1250													
(WY)	1975	1987	1992	1987	1987	1987	1987	1973	1986	1986	1984	1974													
MIN	9.11	8.07	6.27	9.80	10.5	6.02	.087	1.11	.34	.080	.18	3.22													
(WY)	1978	1978	1991	1978	1978	1978	1972	1972	1974	1977	1976	1977													

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1970 - 1994
ANNUAL TOTAL	16964.9	13526.4	
ANNUAL MEAN	46.5	37.1	61.2
HIGHEST ANNUAL MEAN			242
LOWEST ANNUAL MEAN			10.9
HIGHEST DAILY MEAN	672	Oct 19	22800
LOWEST DAILY MEAN	1.6	Mar 4	.00
ANNUAL SEVEN-DAY MINIMUM	1.6	Mar 4	.00
INSTANTANEOUS PEAK FLOW			a26300
INSTANTANEOUS PEAK STAGE			b15.22
INSTANTANEOUS LOW FLOW			2.6
ANNUAL RUNOFF (AC-FT)	33650	26830	44320
10 PERCENT EXCEEDS	43	39	48
50 PERCENT EXCEEDS	19	17	18
90 PERCENT EXCEEDS	13	9.9	4.1

a- Estimated

a-From rating curve extended above 12,000 ft³/s, on basis of slope-area measurement of peak flow.

b-From floodmarks.

RIO GRANDE BASIN

08405200 PECOS RIVER BELOW DARK CANYON DRAW, AT CARLSBAD, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year.

REMARKS.--Replaces station 08405000 Pecos River at Carlsbad, New Mexico at which sample collection was discontinued after September, 1987.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg) (00925)
NOV 1993												
04...	1400	27	2860	7.9	24.0	10.5	679	11.2	114	1100	320	74
JAN 1994												
06...	1445	20	3850	8.0	17.0	12.0	677	10.2	108	1400	370	120
MAR												
01...	0900	3.4	4600	7.6	9.5	6.5	688	9.4	86	1700	430	150
JUN												
27...	0930	20	4160	7.8	33.0	28.0	680	5.6	82	1500	390	130
AUG												
09...	1500	9.6	4270	8.3	38.0	32.0	684	8.3	129	1500	410	120
SEP												
19...	1300	20	3930	7.8	32.5	27.0	687	7.8	110	1300	330	120

DATE	SODIUM, DIS- SOLVED (MG/L AS Na) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY LAB (MG/L AS CaCO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS Fe) (01046)
NOV 1993											
04...	230	3	2.8	105	930	390	0.60	12	2030	130	20
JAN 1994											
06...	350	4	5.2	169	1100	610	0.70	14	2670	240	30
MAR											
01...	420	4	4.6	216	1300	710	0.70	17	3160	310	30
JUN											
27...	400	4	5.9	144	1200	690	0.70	18	2920	270	90
AUG											
09...	230	3	5.7	120	1300	680	0.60	19	2840	270	<10
SEP											
19...	360	4	5.4	147	1200	620	0.70	18	2740	250	<10

RIO GRANDE BASIN

08406500 PECOS RIVER NEAR MALAGA, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD: FROM YEAR 1987 TO CURRENT YEAR.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
NOV 1993												
02...	1400	78	4860	7.9	16.5	8.0	693	14.0	132	1500	420	110
JAN 1994												
05...	1230	73	6150	7.8	23.5	10.0	683	10.2	103	2000	520	180
FEB												
24...	1100	69	6060	8.0	12.0	11.0	686	9.2	95	2000	500	190
MAY												
16...	1130	53	7050	8.2	26.0	24.0	687	8.2	111	2200	530	220
AUG												
11...	1000	47	6560	7.2	27.0	27.0	691	7.2	102	2100	550	170
SEP												
15...	1130	72	6590	8.0	28.5	22.0	687	8.0	104	2000	490	180

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CAC03) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
NOV 1993											
02...	520	6	6.2	136	630	880	0.80	14	2660	300	40
JAN 1994											
05...	670	6	6.2	192	1600	1100	0.80	14	4210	390	40
FEB											
24...	670	6	9.4	159	1600	1200	0.80	6.6	4270	370	40
MAY											
16...	840	8	12	126	1800	1500	0.70	8.0	4990	430	30
AUG											
11...	810	8	14	118	1800	1300	0.70	20	4740	410	<10
SEP											
15...	740	7	11	156	1700	1300	0.80	18	4530	420	10

RIO GRANDE BASIN

08407000 PECOS RIVER AT PIERCE CANYON CROSSING, NEAR MALAGA, NM -- Continued

WATER-QUALITY RECORDS

LOCATION.--Samples collected 0.2 mi downstream from streamflow gaging station.

PERIOD OF RECORD. FROM JUNE 1988 TO, 1993 TO CURRENT DATE.

REMARKS.--No significant inflow between streamflow gaging station and sampling cross-section.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
NOV 1993												
05...	1300	81	7580	8.0	14.0	9.0	690	11.8	116	1700	450	150
JAN 1994												
05...	1515	68	8250	8.0	24.5	12.0	681	14.0	150	2100	510	200
FEB												
24...	1315	71	8160	8.1	21.5	14.5	682	10.2	115	2000	490	190
MAY												
16...	1400	55	8840	8.1	32.0	24.5	686	16.8	231	1900	480	180
AUG												
11...	1115	40	9750	8.1	28.5	27.0	692	7.8	112	2300	570	210
SEP												
15...	1300	76	9050	8.2	31.0	28.5	686	10.4	154	2200	520	230

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
NOV 1993											
05...	1100	11	30	143	1400	1800	0.80	14	5030	390	40
JAN 1994											
05...	1100	10	29	187	1600	1900	0.80	13	5470	450	50
FEB											
24...	1100	11	30	165	1600	1800	0.80	7.3	5320	450	40
MAY											
16...	1300	13	37	136	1700	2200	0.70	9.5	5990	490	30
AUG											
11...	1500	14	41	111	1800	2400	0.70	19	6610	590	<10
SEP											
15...	1200	11	33	141	1800	2100	0.80	18	5990	550	10

RIO GRANDE BASIN

08407500 PECOS RIVER AT RED BLUFF, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1937 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) UNITS (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	
DEC 1993												
21...	1130	73	9000	8.1	6.0	7.0	3.7	682	--	--	>600	
FEB 1994												
23...	1530	80	8070	8.1	15.0	13.0	4.0	688	9.7	105	K1	
JUN												
14...	1245	50	11700	8.0	31.5	27.0	--	686	7.9	115	80	
30...	1115	39	11300	8.0	37.0	25.5	25	685	6.3	89	120	
SEP												
13...	1300	43	9240	8.0	30.5	25.0	12	690	7.8	108	130	
DATE		STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS DISSOLV FLD. AS CACO3 (MG/L) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L) AS MG (00925)	SODIUM, DIS-SOLVED (MG/L) AS NA (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L) AS K (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-LINITY WAT DIS TOT IT FIELD CACO3 (39086)
DEC 1993												
21...	K3	2000	1800	490	190	1100	11	30	244	0	200	
FEB 1994												
23...	210	1800	1700	440	180	1100	11	30	196	0	161	
JUN												
14...	140	2500	2300	590	240	1900	17	120	160	0	131	
30...	1600	2600	2500	610	270	1800	15	44	155	0	127	
SEP												
13...	200	2000	1900	470	200	1400	14	32	171	0	140	
DATE		ALKA-LINITY LAB (MG/L) AS CACO3 (90410)	SULFATE DIS-SOLVED (MG/L) AS SO4 (00945)	CHLO-RIDE, DIS-SOLVED (MG/L) AS CL (00940)	FLUO-RIDE, DIS-SOLVED (MG/L) AS F (00950)	SILICA, DIS-SOLVED (MG/L) AS SIO2 (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L) AS N (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N (00631)	
DEC 1993												
21...	189	1600	1900	0.80	13	5620	5460	2.23	0.070	2.30		
FEB 1994												
23...	166	--	--	--	--	--	--	1.35	0.050	1.40		
JUN												
14...	131	2000	3000	0.70	14	8130	7950	0.080	0.010	0.090		
30...	111	2100	2900	0.70	12	7970	7820	0.048	0.010	0.058		
SEP												
13...	121	1800	2200	0.70	16	6640	6210	0.270	0.020	0.290		

RIO GRANDE BASIN

08407500 PECOS RIVER AT RED BLUFF, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)
DEC 1993										
21...	0.110	0.50	0.080	0.040	0.010	20	100	<1	40	80
FEB 1994										
23...	0.170	1.1	0.040	<0.010	<0.010	<10	<100	<1	40	80
JUN										
14...	0.060	1.6	0.170	<0.010	<0.010	<20	100	<1	40	90
30...	0.130	1.2	0.090	<0.010	<0.010	--	100	--	--	40
SEP										
13...	0.070	1.6	0.100	0.010	<0.010	10	100	1	10	80

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC 1993										
21...	20	2	<1	2	<1.0	6900	28	31	6.1	59
FEB 1994										
23...	30	2	<1	2	<1.0	6500	29	48	10	76
JUN										
14...	70	4	<1	1	<1.0	9000	62	113	15	84
30...	--	3	--	1	2.0	9500	56	93	9.8	67
SEP										
13...	20	3	<1	1	<1.0	7700	41	87	10	90

RIO GRANDE BASIN

08408500 DELAWARE RIVER NEAR RED BLUFF, NM

LOCATION.--Lat 32°01'23", long 104°03'15", in NE¼SW¼SE¼ sec.23, T.26 S., R.28 E., Eddy County, Hydrologic Unit 13070002, near center of channel on downstream side of pier of bridge on U.S. Highway 285, 2.1 mi north of the new Mexico-Texas State line, 3.0 mi southwest of Red Bluff, 3.7 mi upstream from mouth and 14 mi south of Malaga.

DRAINAGE AREA.--689 mi².

PERIOD OF RECORD.--April 1912 to September 1913, May 1914 to June 1915, October 1937 to current year. Published as "near Malaga" 1912-13, and as "near Angeles, Tex." 1914-15.

GAGE.--Water-stage recorder. Elevation of gage is 2,900.66 ft above National Geodetic Vertical Datum of 1929 (U.S. Boundary Commission post). Prior to May 1914, at site 3.0 mi upstream at different datum. May 1914 to June 1915, at site 2.5 mi downstream at different datum.

REMARKS.--Records good. One small upstream diversion. Several observations of water temperature were made during the year. No flow for many days most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.17	1.7	2.3	2.4	2.5	2.2	2.0	1.5	.81	.00	.00	.00
2	.16	1.6	2.4	2.3	2.4	2.0	2.0	1.4	1.5	.00	.00	.00
3	.15	1.6	2.4	2.3	2.5	2.1	1.9	1.4	.85	.00	.00	.00
4	.19	1.5	2.3	2.2	2.6	2.3	2.0	1.4	1.3	.00	.00	.00
5	.19	1.6	2.3	2.1	2.6	2.2	1.9	1.3	.66	.00	.00	.00
6	.21	1.6	2.3	2.2	2.2	2.1	2.0	1.4	.47	.00	.00	.00
7	.19	1.7	2.3	2.1	1.8	2.0	2.0	1.3	.34	.00	.00	.00
8	.17	1.8	2.3	2.1	1.9	2.1	2.2	1.2	.25	.00	.00	.39
9	.20	1.8	2.5	2.0	1.9	2.1	2.3	1.1	.17	.00	.00	.18
10	.28	1.9	2.5	2.0	1.9	2.1	2.1	2.4	2.2	.00	.00	.01
11	.25	1.9	2.5	1.8	1.8	2.1	2.1	19	5.2	.00	.00	.00
12	.28	1.9	2.4	2.0	1.8	2.2	2.1	11	2.6	.00	.00	.00
13	.33	1.9	2.2	2.5	1.8	2.3	2.1	22	12	1.5	.00	.00
14	.40	1.9	2.1	2.5	1.8	2.2	2.1	8.3	1.1	.03	.00	.00
15	.36	1.9	2.1	2.4	1.8	2.1	2.0	3.1	20	.00	.00	.00
16	.40	2.1	2.2	2.4	2.0	2.0	1.9	2.3	4.0	.00	.00	.00
17	.38	2.1	2.2	2.3	2.1	2.0	1.9	3.0	.71	.00	.00	.00
18	.33	2.2	2.3	2.2	2.1	2.0	1.9	3.0	.34	.00	.00	.00
19	.50	2.1	2.3	2.1	2.0	2.0	1.9	4.3	.20	.00	.00	.00
20	.86	2.1	2.3	2.0	2.0	1.9	1.8	2.4	.12	.00	.00	.00
21	.94	2.1	2.4	2.2	2.0	1.9	1.8	19	.09	.00	32	.00
22	.76	2.1	2.3	2.5	2.1	1.9	1.8	61	.05	.00	.79	.00
23	.73	2.1	2.3	2.4	2.0	1.9	1.9	11	.01	.00	.07	.00
24	.79	2.2	2.2	2.5	2.1	2.0	2.2	5.1	.00	.00	.00	.00
25	.85	2.1	2.2	2.5	2.0	2.0	1.9	3.3	.00	.00	.00	.00
26	.82	2.1	2.3	2.3	2.1	2.0	1.5	2.5	.00	.00	.00	.00
27	1.1	2.1	2.3	2.3	2.1	2.0	1.3	2.0	.00	.00	.00	.00
28	1.3	2.2	2.4	2.3	2.2	2.0	1.3	1.7	.00	.00	.00	.00
29	1.4	2.2	2.5	2.2	---	2.1	1.3	1.5	.00	.00	.00	.00
30	1.3	2.3	2.4	2.3	---	2.2	1.4	1.2	.00	.00	.00	.00
31	1.6	---	2.4	2.4	---	2.1	---	.98	---	.00	.00	---
TOTAL	17.59	58.4	71.9	69.8	58.1	64.1	56.6	202.08	54.97	1.53	32.86	0.58
MEAN	.57	1.95	2.32	2.25	2.07	2.07	1.89	6.52	1.83	.049	1.06	.019
MAX	1.6	2.3	2.5	2.5	2.6	2.3	2.3	.61	.20	1.5	.32	.39
MIN	.15	1.5	2.1	1.8	1.8	1.9	1.3	.98	.00	.00	.00	.00
AC-FT	35	116	143	138	115	127	112	401	109	3.0	65	1.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1994, BY WATER YEAR (WY)

	MEAN	30.4	3.60	3.29	3.38	3.17	2.81	5.91	9.94	18.8	14.5	22.6	22.7
MAX	748	18.9	7.99	8.57	8.77	9.44	135	233	281	166	326	303	
(WY)	1956	1979	1987	1987	1987	1987	1954	1941	1938	1952	1966	1978	
MIN	.000	.030	.17	.41	.12	.42	.23	.003	.000	.000	.000	.000	
(WY)	1952	1965	1966	1965	1966	1993	1968	1950	1950	1947	1983	1953	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1938 - 1994

ANNUAL TOTAL	522.34	688.51	
ANNUAL MEAN	1.43	1.89	11.8
HIGHEST ANNUAL MEAN			66.1
LOWEST ANNUAL MEAN			1.78
HIGHEST DAILY MEAN	114	61	22000
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		358	a81400
INSTANTANEOUS PEAK STAGE		4.97	b27.00
ANNUAL RUNOFF (AC-FT)	1040	1370	8560
10 PERCENT EXCEEDS	3.3	2.4	7.1
50 PERCENT EXCEEDS	.36	1.8	2.3
90 PERCENT EXCEEDS	.00	.00	.00

a-From rating curve extended above 6,500 ft³/s, on basis of slope-area measurements at gage heights, 12.84 ft, 17.55 ft, and 27.0 ft.
b-From floodmarks.

RIO GRANDE BASIN

08410000 RED BLUFF RESERVOIR NEAR ORLA, TX

LOCATION.--Lat 31°54'04", long 103°54'35", Reeves County, Hydrologic Unit 13070001, at right end of Red Bluff Dam on the Pecos River, 2.8 mi upstream from Salt Creek, and 5.2 mi north of Orla.

DRAINAGE AREA.--20,720 mi², approximately (contributing area).

PERIOD OF RECORD.--February 1937 to current year. Monthly contents only for some periods, published in WSP 1312.

GAGE.--Nonrecording gage. Datum of gage is 0.43 ft below National Geodetic Vertical Datum of 1929.

REMARKS.--Reservoir is formed by a rock-faced earthfill dam 9,200 ft long. The dam was completed and storage began in September 1936. The dam and reservoir are owned and operated by the Red Bluff Water Power Control District. The water is used for power development and for irrigation from Mentone to Grandfalls. The uncontrolled emergency spillway, 790 ft wide, is a cut through natural ground located to the right of right end of dam. The controlled service spillway is equipped with 12 tainter gates that are 25 by 15 ft high. Inflow is regulated by many reservoirs and diversion dams. The capacity curve is based on Geological Survey topographic map and aerial photography, survey of 1986. Figures given herein represent total contents. Data regarding the dam and reservoir are given in the following table:

	Gage height (feet)	Capacity (acre-feet)
Top of dam	2,856.0	-
Crest of emergency spillway	2,845.0	324,000
Top of gates (top of conservation pool)	2,842.0	289,700
Crest of service spillway and bottom of tainter gates	2,827.0	155,700
Lowest gated outlet (invert)	2,764.0	2,800

COOPERATION.--Gage-height records and capacity curve were furnished by Red Bluff Water Power and Control District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 352,000 acre-ft, Sept. 27, 28, 1941, gage height, 2,846.2 ft, observed on nonrecording gage at service spillway (affected by variable drawdown due to flow through tainter gates); minimum observed, 11,080 acre-ft, May 13, 1948, gage height, 2,781.4 ft.

EXTREMES (AT 0800) FOR CURRENT YEAR.--Maximum contents observed, 109,600 acre-ft, Mar. 24-31, gage height, 2,819.51 ft; minimum observed, 63,560 acre-ft, Sept. 30, gage height, 2,809.28 ft.

Capacity table (gage height, in feet, and total contents, in acre-feet)

2,808.0	59,000	2,814.0	82,630	2,820.0	112,200
2,810.0	66,220	2,816.0	91,830	2,822.0	123,600
2,812.0	74,090	2,818.0	101,700	2,824.0	135,800

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 08:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96290	99940	101400	104200	106800	109000	109000	99330	94350	87520	79840	65880
2	96000	99980	101400	104300	106900	109000	108600	98580	94400	87150	79230	65850
3	95710	99980	101500	104500	107000	109100	108300	97830	94350	86780	78620	65810
4	95420	100000	101500	104600	107100	109100	107900	97080	94250	86420	78020	65770
5	95320	100100	101600	104700	107200	109100	107700	96290	94110	86060	77440	65740
6	95220	100100	101600	104700	107400	109100	107400	95800	93960	85700	76940	65850
7	95120	100200	101700	104800	107600	109200	107100	95320	93770	85340	76350	65880
8	94980	100200	101700	104800	107700	109200	106800	94830	93530	84980	75770	65770
9	94790	100300	101800	104900	107900	109200	106400	94350	93280	84610	75180	65660
10	94540	100300	101800	104900	108000	109200	106100	94150	93040	84350	74590	65550
11	94300	100400	101900	105000	108100	109300	105800	94640	92800	84070	74010	65440
12	94060	100400	101900	105100	108300	109300	105500	95610	92560	83710	73450	65330
13	93820	100500	102000	105100	108400	109300	105300	96080	92310	83350	72890	65220
14	93570	100500	102000	105200	108500	109300	105000	96190	92170	83170	72320	65220
15	93280	100600	102100	105200	108600	109400	104900	96290	87150	82990	71750	65180
16	92990	100600	102200	105300	108600	109400	104700	96380	87150	82760	71200	65110
17	92700	100700	102300	105300	108700	109400	104600	96190	91640	82540	70630	65000
18	92410	100700	102400	105400	108700	109400	104500	96000	91410	82320	70070	64850
19	92210	100800	102500	105400	108700	109500	104400	95800	91170	82060	69450	64700
20	92310	100800	102600	105500	108700	109500	104300	95610	90940	81800	68910	64560
21	92600	100900	102700	105600	108800	109500	104300	95420	90610	82190	68370	64410
22	93770	100900	102800	105700	108800	109500	104000	95220	90330	82540	68530	64260
23	94930	101000	102900	105800	108800	109500	103700	95220	90050	82720	68060	64110
24	96090	101000	103000	105900	108800	109600	103300	95220	89770	82900	67680	64040
25	97180	101100	103100	106000	108900	109600	103000	95170	89490	82900	67370	64000
26	98330	101100	103200	106100	108900	109600	102600	95170	89200	82630	67140	63970
27	99480	101200	103400	106200	109000	109600	101800	95120	88930	82370	66910	63890
28	99780	101200	103600	106300	109000	109600	101100	95080	88550	81930	66680	63780
29	99780	101300	103700	106400	---	109600	100300	94980	88270	81410	66450	63670
30	99880	101300	103900	106600	---	109600	100100	94830	87890	80890	66220	63560
31	99880	---	104000	106700	---	109600	---	94690	---	80360	65990	---
MAX	99880	101300	104000	106700	109000	109600	109000	99330	94400	87520	79840	65880
MIN	92210	99940	101400	104200	106800	109000	100100	94150	87150	80360	65990	63560
(†)	2817.57	2817.88	2818.44	2818.96	2819.39	2819.51	2817.68	2816.59	2815.16	2813.48	2809.94	2809.28
(††)	+3400	+1420	+2700	+2700	+2300	+600	-9500	-5410	-6800	-7530	-14370	-2430

CAL YR 1993 MAX 162700 MIN 92210 (††) -50300

WTR YR 1994 MAX 109600 MIN 63560 (††) -32920

(†) GAGE HEIGHT, IN FEET, AT END OF MONTH.
(††) CHANGE IN CONTENTS, IN ACRE-FEET.

RIO GRANDE BASIN

08412500 PECOS RIVER NEAR ORLA, TX -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

PERIOD OF RECORD.--Chemical analyses: July 1937 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1937 to current year.

WATER TEMPERATURE: March 1953 to current year.

REMARKS.--October 1937 to September 1969, this station was published as 08410100 Pecos River below Red Bluff Dam, near Orla. Water-quality station operation transferred from the Texas District to the New Mexico District beginning with the 1993 water year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 29,400 microsiemens May 16, 1978; minimum daily, 1,600 microsiemens June 19, 1984.

WATER TEMPERATURE: Maximum daily, 32.0 °C, Aug 4, 1991; minimum daily, 0.0 °C, many days during winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 15,800 microsiemens Jan. 4; minimum daily, 6,900 microsiemens Mar. 30.

WATER TEMPERATURE: Maximum daily, 27.5 °C, July 19; minimum daily 3.5 °C, Dec. 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION (00301)	HARD- NESS TOTAL (MG/L CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
DEC 1993												
02...	1250	12	14000	8.0	14.5	4.0	691	--	--	2900	2800	720
JAN 1994												
03...	1415	12	14500	8.0	23.0	9.0	688	10.2	103	2900	2800	730
FEB												
23...	1045	26	11700	8.0	11.5	10.0	695	9.2	93	2700	2600	680
JUN												
13...	1300	215	12900	7.6	35.5	25.5	687	7.2	102	2600	2600	680
JUL												
01...	1230	178	10500	7.6	39.5	31.0	689	5.6	87	2600	2500	640
SEP												
12...	1530	96	11200	7.4	30.0	24.5	693	9.2	126	2700	2600	650

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)
DEC 1993												
02...	270	2200	18	37	144	0	118	2500	4000	1.1	12	9810
JAN 1994												
03...	260	2200	18	36	124	0	102	2500	4100	1.1	11	9900
FEB												
23...	240	1800	15	36	134	0	110	2200	2800	1.0	11	7830
JUN												
13...	230	2200	19	41	93	0	76	2300	3500	0.80	8.6	9010
JUL												
01...	250	1600	14	35	115	0	94	2200	2600	0.70	12	7390
SEP												
12...	250	1600	14	42	122	0	100	2300	2800	0.90	13	7720

MIMBRES RIVER BASIN

08477110 MIMBRES RIVER AT MIMBRES, NM

LOCATION.--Lat 32°51'17", long 107°58'23", in NW¼SW¼ sec.3, T.17 S., R.11 W., Grant County, Hydrologic Unit 13030202, on left bank 100 ft downstream from Willow Springs Canyon, 0.3 mi east of Mimbres, 1.1 mi downstream from Shepard Canyon, 2.5 mi downstream from Bear Canyon, and at mile 73.1.

DRAINAGE AREA.--216 mi².

PERIOD OF RECORD.--March 1978 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,920 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Jan. 17, 1979, at datum 2.29 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	10	8.9	6.9	6.6	7.2	2.1	4.2	2.7	1.2	4.7	2.3
2	9.0	9.7	8.9	6.7	6.6	7.3	2.0	4.3	3.6	1.2	5.5	2.1
3	9.0	9.6	8.9	6.6	6.6	6.8	1.6	4.1	5.8	1.4	4.3	2.0
4	8.9	9.6	8.6	6.6	6.6	6.8	1.7	3.9	5.9	1.3	3.7	3.8
5	8.1	9.4	8.4	6.7	6.6	6.0	1.8	4.0	5.9	1.1	3.7	5.1
6	8.5	9.4	8.2	6.7	6.8	4.5	2.2	3.6	5.5	1.4	3.2	4.0
7	9.4	8.9	8.2	6.5	7.1	4.4	2.0	3.5	5.4	1.6	3.2	4.2
8	9.2	8.9	8.0	6.3	7.2	5.0	2.1	3.8	5.5	.79	3.2	4.5
9	8.9	9.1	7.7	6.3	6.9	5.2	2.2	3.5	4.8	.31	2.8	4.2
10	8.8	9.3	7.5	6.3	6.9	5.1	1.8	3.3	4.6	.12	2.8	4.0
11	9.0	9.8	7.6	6.3	7.2	5.2	2.3	3.6	4.4	.07	2.8	3.7
12	9.2	10	8.3	6.3	7.0	5.3	2.1	3.6	4.3	.24	2.8	3.8
13	9.3	10	7.9	6.0	7.2	5.2	2.1	4.1	3.4	.34	2.6	3.5
14	9.2	9.8	7.9	5.8	7.2	5.3	2.2	4.1	2.9	.48	2.6	3.4
15	9.2	9.8	8.0	5.8	7.2	5.3	2.4	4.0	2.6	1.1	2.9	3.2
16	9.3	10	7.7	5.9	7.2	5.0	2.5	3.6	2.6	1.2	4.2	2.8
17	11	10	7.4	6.0	7.2	5.2	2.6	3.4	2.6	1.5	3.5	2.6
18	10	9.8	7.1	5.9	7.2	5.1	2.8	3.4	2.4	1.6	2.9	2.5
19	11	9.6	6.9	5.8	7.4	4.9	4.5	3.8	2.1	1.3	5.9	2.4
20	11	9.6	7.2	5.8	7.5	4.7	5.2	3.8	1.8	.71	4.1	2.4
21	10	9.5	7.2	5.7	7.5	4.6	5.4	3.4	2.0	1.2	3.4	2.4
22	10	9.2	7.2	5.5	7.5	4.7	5.7	3.5	2.4	1.6	3.2	2.4
23	10	9.2	7.0	5.5	7.5	4.7	6.0	3.3	2.2	1.4	3.0	2.2
24	10	9.2	6.9	5.3	7.4	4.5	4.4	3.2	1.9	1.2	2.7	2.0
25	10	9.1	6.9	5.3	6.8	4.4	3.8	3.3	1.8	1.1	3.0	1.8
26	10	8.7	6.9	5.5	6.9	4.3	3.8	3.3	1.8	1.2	2.8	1.7
27	11	8.5	7.0	5.7	7.2	4.0	4.4	3.4	1.6	1.4	2.6	1.8
28	10	8.3	7.1	7.2	7.2	3.8	4.3	3.2	1.5	8.3	2.5	1.7
29	10	8.9	7.3	6.2	---	4.0	4.2	3.0	1.3	5.3	2.5	1.7
30	9.8	8.9	7.0	6.7	---	2.9	3.8	2.9	1.2	4.5	2.5	1.6
31	10	---	7.0	6.9	---	2.1	---	2.9	---	4.8	2.6	---
TOTAL	297.9	281.8	236.8	190.7	198.2	153.5	94.0	111.0	96.5	50.96	102.2	85.8
MEAN	9.61	9.39	7.64	6.15	7.08	4.95	3.13	3.58	3.22	1.64	3.30	2.86
MAX	11	10	8.9	7.2	7.5	7.3	6.0	4.3	5.9	8.3	5.9	5.1
MIN	8.1	8.3	6.9	5.3	6.6	2.1	1.6	2.9	1.2	.07	2.5	1.6
AC-FT	591	559	470	378	393	304	186	220	191	101	203	170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1994, BY WATER YEAR (WY)

	MEAN	14.8	12.9	33.6	30.9	28.7	36.5	26.1	17.4	9.16	12.2	32.1	12.0
MAX	67.9	43.9	186	163	93.1	93.2	89.5	64.9	23.0	52.1	234	48.6	
(WY)	1986	1979	1985	1993	1979	1992	1992	1992	1992	1986	1988	1988	
MIN	2.72	2.47	3.65	4.24	3.10	2.16	2.34	1.84	3.17	1.64	3.30	2.64	
(WY)	1979	1981	1981	1981	1981	1990	1990	1990	1989	1994	1994	1978	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1978 - 1994

ANNUAL TOTAL	12992.9	1899.36	
ANNUAL MEAN	35.6	5.20	22.3
HIGHEST ANNUAL MEAN			45.1
LOWEST ANNUAL MEAN			5.08
HIGHEST DAILY MEAN	580	Jan 19	2500
LOWEST DAILY MEAN	4.7	Jul 27	.07
ANNUAL SEVEN-DAY MINIMUM	5.2	Jul 25	.34
INSTANTANEOUS PEAK FLOW			14
INSTANTANEOUS PEAK STAGE			2.95
INSTANTANEOUS LOW FLOW			
ANNUAL RUNOFF (AC-FT)	25770	3770	16180
10 PERCENT EXCEEDS	74	9.2	53
50 PERCENT EXCEEDS	11	4.9	8.9
90 PERCENT EXCEEDS	7.2	1.7	2.9

a-From floodmarks.

b-From rating curve extended above 450 ft³/s, on basis of slope-area measurement at gage heights 6.70 ft and 8.05 ft.

REVISED RECORDS.--WSP 1312: 1949(M).

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 1,000 acres, 1959 determination, upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1994, BY WATER YEAR (WY)

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1948 - 1994
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e Estimated

a-From rating curve extended above 160 ft³/s. on basis of slope-area measurement of peak flow.

b-Maximum gage height, 5.60 ft, Aug. 8, 1988, and July 14, 1991, discharge not determined.

TULAROSA VALLEY BASIN

08481500 TULAROSA CREEK NEAR BENT, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	
NOV 18...	1500	19	1430	8.3	21.0	7.0	0.50	630	11.2	112	<10	42	
MAR 11...	1115	22	1520	8.2	13.0	5.0	5.1	634	10.6	100	--	73	
MAY 12...	1500	22	1230	8.1	23.0	18.0	2.8	625	8.2	107	--	29	
27...	0930	23	--	--	--	15.0	--	--	--	--	<10	--	
JUL 28...	1000	20	1130	8.1	24.0	11.5	78	627	8.9	100	13	--	
SEP 09...	1345	22	1300	8.0	28.0	12.5	7.4	628	8.8	101	<10	49	
DATE		STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CaCO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3) (39086)	ALKA-LINITY LAB (MG/L AS CaCO3) (90410)
NOV 18...	110	620	440	170	48	41	0.7	1.2	210	7	184	178	
MAR 11...	K17	700	450	190	54	47	0.8	1.1	303	0	248	189	
MAY 12...	>2500	630	410	170	49	42	0.7	1.0	268	0	220	151	
27...	--	--	--	--	--	--	--	--	--	--	--	--	
JUL 28...	--	660	450	180	50	--	--	--	253	0	207	190	
SEP 09...	200	660	480	180	51	44	0.7	1.7	225	0	184	166	
DATE		SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV 18...	420	57	0.40	14	914	866	0.490	0.010	0.010	0.480	0.500	0.010	
MAR 11...	440	64	0.30	14	934	962	--	--	<0.010	--	0.540	--	
MAY 12...	460	59	0.40	13	902	930	--	--	<0.010	--	0.390	--	
27...	--	--	--	--	--	--	--	--	--	--	--	--	
JUL 28...	--	--	--	--	924	--	--	--	--	--	--	--	
SEP 09...	430	60	0.40	15	904	897	--	--	<0.010	--	0.470	--	

TULAROSA VALLEY BASIN

08481500 TULAROSA CREEK NEAR BENT, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA WATER YEAR EXTENDED 1983 TO DECEMBER 1984

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
NOV 18...	0.020	<0.20	<0.010	<0.010	<0.010	<0.010	1.5	<10	21	<3	5
MAR 11...	<0.010	<0.20	<0.010	<0.010	--	<0.010	--	--	--	--	--
MAY 12...	0.020	<0.20	<0.010	<0.010	--	<0.010	--	10	21	<1	4
MAY 27...	--	--	--	--	--	--	1.9	--	--	--	--
JUL 28...	--	--	--	--	--	--	5.7	<10	30	<1	6
SEP 09...	0.020	0.30	0.040	<0.010	--	<0.010	2.1	<10	25	<3	6

DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 18...	11	12	<10	<1	1	<1.0	2000	<6	37	1.9	51
MAR 11...	--	--	--	--	--	--	--	--	34	2.0	58
MAY 12...	11	11	<1	1	<1	<1.0	2100	2	86	5.2	79
MAY 27...	--	--	--	--	--	--	--	--	5	0.31	94
JUL 28...	13	20	<1	<1	<1	<1.0	2100	2	217	11	86
SEP 09...	15	18	<10	<1	1	<1.0	2100	<6	55	3.2	72

SAN JUAN RIVER BASIN

09349800 PIEDRA RIVER NEAR ARBOLES, CO

LOCATION.--Lat 37°05'18", long 107°23'50", in NE¼SW¼ sec.21, T.33 N., R.5 W., Archuleta County, Hydrologic Unit 14080102, on left bank 3 mi downstream from Ignacio Creek, 4.6 mi northeast of Arboles Post Office, and 2.5 mi upstream from Navajo Reservoir

PERIOD OF RECORD.--August 1962 to current year. Gage operated 1895-99, 1910-27 at a site 7.5 mi downstream at altitude 6,000 ft. Low-flow records probably not equivalent. Water-quality data available, November to August 1973.

GAGE.--Water-stage recorder. Elevation of gage is 6,147.52 ft above National Geodetic Vertical Datum of 1929, from Colorado State Highway Department bench mark.

REMARKS.--Estimated daily discharges: Dec. 12 to Mar. 2, Mar. 30 to Apr. 13, July 8 to Aug. 3, and Aug. 15. Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of about 2,800 acres upstream from station. Several observations of specific conductance and water temperature were obtained and are published in "Water resources data for Colorado."

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred Sept. 5 or 6, 1909; Oct. 5, 1911.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	108	102	75	55	80	460	710	1540	249	80	78
2	106	113	95	75	55	120	510	680	1550	223	55	108
3	104	109	89	75	60	151	540	666	1530	208	100	361
4	102	104	89	75	65	187	600	645	1590	188	89	403
5	102	102	85	80	70	218	640	729	1500	169	75	227
6	99	93	86	80	65	240	560	1000	1380	159	78	169
7	104	83	91	60	60	230	500	1240	1250	145	92	148
8	152	88	85	60	60	268	460	1240	1130	138	83	134
9	145	87	84	65	55	261	480	1270	1080	130	84	116
10	171	83	86	70	70	205	460	1100	1020	120	95	104
11	174	95	84	65	75	194	430	1000	984	120	95	97
12	162	108	84	65	65	191	440	1370	826	110	111	95
13	153	109	80	65	55	204	630	1580	807	110	100	173
14	145	120	70	65	60	236	701	1580	830	100	93	382
15	137	111	70	65	60	310	646	1580	785	95	99	310
16	131	102	80	65	65	406	658	1540	689	85	93	253
17	139	95	90	60	70	516	766	1550	619	80	83	207
18	165	93	80	60	70	677	919	1570	579	75	79	208
19	156	93	85	60	65	808	1070	1480	566	70	66	210
20	145	85	85	65	65	1310	1140	1560	684	75	99	218
21	142	79	75	65	65	1110	1250	1410	737	75	113	278
22	139	92	75	70	65	876	1290	1320	1380	70	113	249
23	136	120	75	70	50	741	1500	1400	1020	65	104	210
24	134	150	75	75	55	667	1630	1300	733	60	93	181
25	131	105	75	75	60	555	1440	1300	581	55	85	164
26	126	68	80	75	70	511	1200	1230	480	52	84	145
27	128	78	85	70	80	470	1040	1070	408	60	79	133
28	118	99	90	70	85	375	916	1050	361	52	73	121
29	128	108	80	70	---	340	841	1160	312	52	75	110
30	121	109	75	65	---	310	792	1350	278	55	75	107
31	104	---	75	65	---	400	---	1530	---	55	73	---
TOTAL	4110	2989	2560	2120	1795	13167	24509	38210	27229	3300	2716	5699
MEAN	133	99.6	82.6	68.4	64.1	425	817	1233	908	106	87.6	190
MAX	174	150	102	80	85	1310	1630	1580	1590	249	113	403
MIN	99	68	70	60	50	80	430	645	278	52	55	78
AC-FT	8150	5930	5080	4210	3550	26120	48610	75790	54010	6550	5290	11300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1994, BY WATER YEAR (WY)

	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
MEAN	178	125	91.3	75.7	92.3	309	914	1323	1066	341	211	211																				
MAX	618	517	257	153	244	706	2126	2926	2526	1133	551	943																				
(WY)	1973	1987	1987	1987	1986	1989	1979	1979	1979	1975	1968	1970																				
MIN	51.2	48.4	31.2	31.2	34.7	47.4	125	168	121	69.8	37.0	35.3																				
(WY)	1979	1968	1990	1990	1964	1964	1977	1977	1977	1972	1972	1978																				

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1963 - 1994
ANNUAL TOTAL	216015	128404	
ANNUAL MEAN	592	352	412
HIGHEST ANNUAL MEAN			822
LOWEST ANNUAL MEAN			94.0
HIGHEST DAILY MEAN	2760	May 17	5360
LOWEST DAILY MEAN	60	Jan 13	19
ANNUAL SEVEN-DAY MINIMUM	69	Jan 1	26
INSTANTANEOUS PEAK FLOW			1980
INSTANTANEOUS PEAK STAGE			3.83
ANNUAL RUNOFF (AC-FT)	428500	254700	298400
10 PERCENT EXCEEDS	1720	1150	1210
50 PERCENT EXCEEDS	168	113	151
90 PERCENT EXCEEDS	79	65	54

a-From rating curve extended above 4,400 ft³/s, on basis of slope-area measurement of peak flow.
b-Gage height, 6.38 ft, recorded, 7.55 ft from floodmarks.

SAN JUAN RIVER BASIN

09354500 LOS PINOS RIVER AT LA BOCA, CO

LOCATION.--Lat 37°00'34", long 107°35'56", in NE¼NW¼ sec.22, T.32 N., R.7 W., La Plata County, Hydrologic Unit 14080101, on downstream end of right abutment of the Denver & Rio Grande Western Railroad Co. bridge, at southeast edge of La Boca, 0.1 mi upstream from Spring Creek, and 2 mi upstream from maximum elevation of Navajo Reservoir.

DRAINAGE AREA.--510 mi², approximately.

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733. Water-quality data available, July 1969 to August 1973, January 1988 to September 1991.

GAGE.--Water-stage recorder. Datum of gage is 6,143.59 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Nov. 23-29, Dec. 4-10, 12, Dec. 14 to Jan. 3, Jan. 5-24, Jan. 30 to Mar. 2, May 3-4, and June 13-28. Records good except for estimated daily discharges, which are poor. Flow regulated by Vallecito Reservoir (station 09353000) 24 mi upstream since April 1941. Diversions for irrigation of about 33,000 acres upstream from station. Several observations of specific conductance and water temperature were obtained and are published in "Water resources data for Colorado."

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	126	140	120	44	320	99	174	437	140	189	161
2	147	115	138	120	45	200	107	167	577	140	199	167
3	138	113	137	120	46	268	115	150	615	150	182	417
4	130	122	140	120	50	279	120	130	717	148	164	269
5	130	125	140	120	56	252	122	251	808	140	167	184
6	130	118	140	120	58	225	113	263	810	152	202	161
7	160	120	140	120	62	175	105	224	803	138	206	158
8	182	122	140	120	80	179	112	171	582	130	216	148
9	195	125	140	120	115	164	130	179	241	142	251	147
10	171	125	140	120	90	126	147	129	292	147	210	147
11	155	142	135	120	90	110	161	125	773	152	206	158
12	202	188	135	120	70	110	182	256	619	148	209	173
13	192	188	135	120	60	103	226	235	370	155	192	301
14	185	206	135	120	56	120	227	407	320	164	199	287
15	179	189	130	120	64	137	193	657	540	176	209	204
16	176	170	130	120	70	150	179	677	520	139	199	206
17	226	153	130	54	90	167	182	704	300	147	174	177
18	230	150	130	54	300	161	195	671	290	167	192	176
19	183	150	130	54	340	170	247	652	290	185	192	176
20	212	148	130	54	200	257	286	658	290	164	189	153
21	282	145	130	56	120	255	287	969	1150	155	188	150
22	283	145	130	56	100	190	283	984	1350	155	176	138
23	295	150	130	57	84	165	308	968	1520	161	161	123
24	275	150	130	63	72	143	322	944	700	170	155	115
25	195	150	130	69	90	135	296	1110	310	202	173	105
26	179	150	130	75	150	130	235	1150	300	199	198	101
27	167	140	130	71	310	123	196	1070	300	185	167	95
28	164	140	130	69	260	99	195	850	290	182	167	99
29	176	140	130	67	---	99	189	582	203	176	167	93
30	161	140	130	60	---	95	199	296	151	229	167	124
31	150	---	130	48	---	95	---	283	---	200	164	---
TOTAL	5797	4345	4145	2827	3172	5202	5758	16086	16468	5038	5830	5113
MEAN	187	145	134	91.2	113	168	192	519	549	163	188	170
MAX	295	206	140	120	340	320	322	1150	1520	229	251	417
MIN	130	113	130	48	44	95	99	125	151	130	155	93
AC-FT	11500	8620	8220	5610	6290	10320	11420	31910	32660	9990	11560	10140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1994, BY WATER YEAR (WY)

	197	141	105	76.7	99.7	206	347	451	504	305	217	206
MEAN	197	141	105	76.7	99.7	206	347	451	504	305	217	206
MAX	672	709	396	182	362	972	1339	1719	1555	1381	878	706
(WY)	1987	1987	1983	1985	1993	1993	1979	1958	1979	1957	1957	1970
MIN	47.9	32.1	33.8	33.9	38.6	45.1	22.8	44.3	74.5	81.6	80.4	58.3
(WY)	1978	1960	1964	1978	1978	1977	1951	1951	1977	1959	1977	1951

SUMMARY STATISTICS FOR 1993 CALENDAR YEAR FOR 1994 WATER YEAR WATER YEARS 1951 - 1994

	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1951 - 1994
ANNUAL TOTAL	138624	79781	
ANNUAL MEAN	380	219	
HIGHEST ANNUAL MEAN			242
LOWEST ANNUAL MEAN			582
HIGHEST DAILY MEAN	1720	May 30	1520
LOWEST DAILY MEAN	a70	Jan 4	44
ANNUAL SEVEN-DAY MINIMUM	74	Jan 8	50
INSTANTANEOUS PEAK FLOW			1960
INSTANTANEOUS PEAK STAGE			6.32
INSTANTANEOUS LOW FLOW			
ANNUAL RUNOFF (AC-FT)	275000	158200	175300
10 PERCENT EXCEEDS	976	321	529
50 PERCENT EXCEEDS	209	160	133
90 PERCENT EXCEEDS	90	95	50

a-Also occurred Jan. 11-13.

b-From rating curve extended above 5,100 ft³/s.

c-Maximum gage height, 9.00 ft, backwater from ice, sometime during period, Dec 23, 1990 to Jan 17, 1991.

SAN JUAN RIVER BASIN

09355000 SPRING CREEK AT LA BOCA, CO

LOCATION.--Lat 37°00'40", long 107°35'47", in SE¼SW¼ sec.15, T.32 N., R.7 W., La Plata County, Hydrologic Unit 14080101, on right bank in an excavated channel, 0.2 mi upstream from mouth, and 0.2 mi east of La Boca.

DRAINAGE AREA.--58 mi², approximately.

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733. Water-quality data available, May 1974.

GAGE.--Water-stage recorder. Elevation of gage is 6,160 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Oct. 22-25, Nov. 1, 7-8, and Nov. 25 to Mar. 3. Records good except for estimated daily discharges, which are poor. Part of flow is return waste from irrigation. Nearly all irrigation in this basin is water diverted from the Los Pinos River near Bayfield, Co., which causes a considerable change in the annual pattern and natural flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	7.0	6.8	6.0	2.2	16	3.0	28	61	70	69	41
2	45	7.2	6.8	6.0	2.3	11	3.0	24	61	79	59	48
3	45	6.4	6.8	6.0	2.4	14	3.1	18	58	86	64	143
4	46	6.3	7.0	6.0	2.5	18	3.0	28	57	76	56	85
5	45	6.3	7.0	6.0	2.8	13	3.1	23	57	68	55	56
6	49	6.0	7.0	6.0	2.9	11	3.1	24	55	70	61	56
7	61	6.0	7.0	6.0	3.3	9.1	3.0	34	55	65	64	64
8	60	6.4	7.0	6.0	4.1	16	3.1	32	59	68	58	61
9	60	6.4	7.0	6.0	5.5	16	6.9	32	57	69	68	72
10	53	6.7	7.0	6.0	4.5	8.8	9.9	33	59	77	58	70
11	50	6.7	6.8	6.0	4.4	6.6	8.2	33	64	81	50	77
12	58	9.9	6.8	6.0	3.7	6.2	8.6	55	60	78	53	82
13	46	22	6.8	6.0	3.1	5.8	10	49	63	80	48	144
14	42	19	6.6	6.0	2.8	5.8	10	48	61	74	45	124
15	36	33	6.4	6.0	3.2	6.5	9.1	42	68	76	50	59
16	38	19	6.4	5.0	3.6	7.3	7.0	41	70	66	47	50
17	74	12	6.4	2.7	4.5	8.2	5.9	38	66	63	45	48
18	67	9.5	6.4	2.7	14	8.2	5.2	39	77	77	45	55
19	39	7.6	6.4	2.7	16	8.6	4.8	43	94	80	50	57
20	36	7.6	6.4	2.7	10	14	4.5	38	127	70	50	49
21	28	6.8	6.4	2.8	6.6	10	4.3	48	82	73	56	50
22	21	6.4	6.4	2.8	5.2	7.0	4.3	51	129	75	49	51
23	14	6.7	6.4	2.9	4.3	5.9	4.8	48	78	73	44	44
24	10	7.2	6.4	3.2	3.8	5.5	5.5	45	75	85	43	43
25	7.8	7.4	6.4	3.5	4.6	4.8	4.5	104	81	97	40	42
26	7.6	7.0	6.4	3.7	7.0	4.5	4.5	82	76	94	44	41
27	7.2	6.8	6.4	3.5	15	4.3	31	71	69	70	36	37
28	7.2	6.8	6.4	3.3	13	4.0	25	64	67	66	35	34
29	7.2	6.8	6.4	3.2	---	3.6	21	58	66	66	34	37
30	6.8	6.8	6.4	2.8	---	3.0	21	53	67	72	41	46
31	6.7	---	6.4	2.3	---	3.0	---	56	---	73	47	---
TOTAL	1119.5	279.7	205.2	139.8	157.3	265.7	240.4	1382	2119	2317	1564	1866
MEAN	36.1	9.32	6.62	4.51	5.62	8.57	8.01	44.6	70.6	74.7	50.5	62.2
MAX	74	33	7.0	6.0	16	18	31	104	129	97	69	144
MIN	6.7	6.0	6.4	2.3	2.2	3.0	3.0	18	55	63	34	34
AC-FT	2220	555	407	277	312	527	477	2740	4200	4600	3100	3700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1994, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1951	35.5	87.9	1973	5.25	1978
1952	10.6	29.6	1956	3.68	1978
1953	5.51	20.4	1985	1.74	1960
1954	4.58	19.3	1980	2.04	1973
1955	10.2	54.8	1980	2.55	1960
1956	18.5	89.7	1979	3.03	1972
1957	14.0	41.1	1979	3.77	1978
1958	33.7	64.5	1992	15.7	1978
1959	37.6	79.3	1986	24.4	1977
1960	66.0	90.1	1987	21.2	1977
1961	65.0	105	1987	32.1	1977
1962	58.7	92.0	1983	26.5	1951

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1951 - 1994

ANNUAL TOTAL	14810.3	11655.6	
ANNUAL MEAN	40.6	31.9	32.6
HIGHEST ANNUAL MEAN			47.7
LOWEST ANNUAL MEAN			15.6
HIGHEST DAILY MEAN	301	144	778
LOWEST DAILY MEAN	2.5	2.2	1.0
ANNUAL SEVEN-DAY MINIMUM	5.8	2.5	1.0
INSTANTANEOUS PEAK FLOW		270	a1980
INSTANTANEOUS PEAK STAGE		b2.07	c4.62
INSTANTANEOUS LOW FLOW			.60
ANNUAL RUNOFF (AC-FT)	29380	23120	23650
10 PERCENT EXCEEDS	73	72	71
50 PERCENT EXCEEDS	37	18	24
90 PERCENT EXCEEDS	6.4	3.7	3.3

a-From rating curve extended above 160 ft³/s, on basis of field estimate of peak flow.
b-Maximum gage height, 2.13 ft, sometime between Nov 27, and Mar 3, backwater from ice.
c-Maximum gage height, 5.98 ft, Mar 9, 1960, backwater from ice.

SAN JUAN RIVER BASIN

09355100 NAVAJO RESERVOIR NEAR ARCHULETA, NM

LOCATION.--Lat 36°48'28", long 107°36'31", in SW¼SEC. 18, T.30 N., R.7 W., San Juan County, Hydrologic Unit 14080101, in gate shaft of outlet works structure near right abutment of Navajo Dam on San Juan River, 5.5 mi east of Archuleta, 33 mi east of Farmington, and at mile 298.6.

DRAINAGE AREA.--3,230 mi², approximately.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--June 1962 to current year. Prior to October 1968 dead storage included.

REMARKS.--Reservoir is formed by earth rock-fill dam, completed in June 1963; storage began June 27, 1962. Capacity, 1,708,600 acre-ft between elevation 5,720 ft upstream toe of dam and 6,085 ft crest of spillway. Usable capacity 1,696,000 acre-ft above elevation 5,774.9 ft minimum operating level. Dead storage below elevation 5,774.9 ft is 12,600 acre-ft. Figures given herein are usable contents. Reservoir is used for irrigation storage, river regulation, desilting, flood control, and recreation.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,731,000 acre-ft, July 2-4, 1973, elevation, 6,087.25 ft; minimum contents after June 1964 (initial filling period), 234,300 acre-ft, Mar. 10, 11, 1965, elevation, 5,906.36 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,659,900 acre-ft, May 2, elevation, 6,082.66 ft; minimum contents, 1,400,600 acre-ft, Sept. 30, elevation, 6,064 ft.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

6,015	864.5	6,035	1,056.7	6,055	1,281.3	6,075	1,546.2
6,020	910.1	6,040	1,109.4	6,060	1,343.5	6,080	1,619.5
6,025	957.2	6,045	1,164.3	6,065	1,408.3	6,085	1,696.0
6,030	1,006.0	6,050	1,221.6	6,070	1,475.8	6,090	1,775.7

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1624100	1616400	1595300	1565900	1536600	1531400	1590900	1659700	1648100	1566600	1453800	1409400
2	1623900	1616300	1594400	1565200	1536200	1533000	1592200	1659900	1648700	1560600	1453300	1410200
3	1623100	1615200	1593500	1564200	1535800	1534400	1593100	1659000	1649100	1554200	1452100	1412300
4	1622200	1614300	1592500	1563400	1535800	1536100	1595100	1657600	1650000	1547900	1449900	1413500
5	1620900	1613100	1591600	1562400	1534900	1538000	1596300	1655700	1650900	1542100	1448300	1413600
6	1619100	1612500	1590700	1561600	1534500	1539800	1597200	1654700	1650600	1536300	1447000	1412300
7	1619100	1611500	1589900	1560400	1534400	1541400	1598100	1653800	1649700	1530500	1445800	1411500
8	1619100	1610400	1588800	1559200	1534200	1543300	1598700	1653100	1647800	1525800	1444100	1410500
9	1619000	1609500	1587900	1558000	1534000	1544700	1600200	1652500	1645200	1521400	1442800	1409400
10	1618500	1609400	1587200	1556800	1533500	1545700	1601100	1651000	1642800	1516900	1441600	1408600
11	1617800	1608900	1586300	1555600	1532700	1546700	1601900	1649300	1640600	1512400	1440500	1408100
12	1617300	1608600	1585600	1554400	1532700	1547600	1604700	1648800	1637700	1508200	1439100	1407000
13	1616700	1608500	1584900	1553400	1532300	1548800	1606000	1649100	1634000	1503300	1437900	1407000
14	1616000	1608600	1584000	1552200	1531400	1549900	1609200	1649700	1630600	1498500	1436500	1407700
15	1615500	1607500	1582800	1551100	1531000	1551900	1611000	1650100	1626800	1494800	1435600	1407900
16	1615800	1606900	1582200	1549900	1530600	1554700	1612800	1649700	1622100	1491400	1434500	1408000
17	1616400	1606200	1581000	1548700	1530500	1558200	1615300	1650000	1617000	1487600	1432800	1408400
18	1617300	1605100	1579800	1547800	1531400	1561800	1618200	1650600	1611600	1483800	1431100	1408300
19	1617300	1604600	1578800	1546900	1531400	1565800	1620900	1651300	1606900	1480200	1429900	1407400
20	1617600	1603800	1577700	1546000	1531400	1572300	1623600	1652500	1604300	1476700	1428800	1407000
21	1617800	1602900	1576600	1544700	1531000	1576800	1626300	1653500	1604900	1473800	1427500	1406800
22	1618100	1602000	1575600	1543300	1530300	1579400	1630300	1653600	1608300	1471200	1426400	1406600
23	1618200	1602000	1574700	1542200	1530200	1581600	1635300	1654100	1606900	1468300	1425500	1405900
24	1618200	1601400	1573500	1541900	1529800	1583100	1640700	1653500	1605600	1465800	1423700	1405800
25	1618200	1600600	1572600	1541700	1529500	1584400	1645300	1654700	1601100	1464000	1422100	1405400
26	1618100	1599600	1571600	1541200	1529900	1586100	1648700	1655000	1596500	1461900	1420600	1404600
27	1617800	1598700	1570500	1540800	1530300	1587200	1651000	1654400	1590700	1460300	1418800	1403300
28	1617600	1597500	1569800	1540000	1531000	1588500	1654100	1651800	1584400	1459100	1417400	1402000
29	1617300	1596600	1569100	1539100	---	1589100	1655900	1649900	1578600	1457600	1415600	1400900
30	1617200	1596000	1568000	1538300	---	1590000	1657800	1648700	1572500	1456300	1413600	1400600
31	1616900	---	1567000	1537500	---	1590400	---	1648400	---	1454900	1411500	---
MAX	1624100	1616400	1595300	1565900	1630500	1590400	1657800	1659900	1650900	1566600	1453800	1413600
MIN	1615500	1596000	1567000	1537500	1529500	1531400	1590900	1648400	1572500	1454900	1411500	1400600
(†)	6079.79	6078.40	6076.43	6074.39	6073.93	6078.03	6082.52	6081.49	6076.82	6068.43	6065.24	6064.43
(††)	-7900	-20900	-29000	-29500	-6500	+59400	+67400	-9400	-75900	-117600	-43400	-10900

CAL YR 1993 MAX 1634400 MIN 1396700 (†) +38800
WTR YR 1994 MAX 1659900 MIN 1400600 (†) -19810

(†) ELEVATION, IN FEET, AT END OF MONTH.
(††) CHANGE IN CONTENTS, IN ACRE-FEET.

SAN JUAN RIVER BASIN

09355500 SAN JUAN RIVER NEAR ARCHULETA, NM

LOCATION.--Lat 36°48'05", long 107°41'51", in NW¼NE¼ sec.20, T.30 N., R.8 W., San Juan County, Hydrologic Unit 14080101, on left bank 0.5 mi upstream from Gobernador Canyon, 0.8 mi northeast of Archuleta, 7.2 mi downstream from Navajo Dam, and at mile 291.4.

WATER-DISCHARGE RECORDS

REVISED RECORDS.--The annual runoff for the 1958 water year as published in table 2, WSP 1733, is 455,000 acre-ft. The correct value is 1,455,000 acre-ft.

GAGE.--Water-stage recorder. Elevation of gage is 5,653 ft above National Geodetic Vertical Datum of 1929, from river-profile survey. Prior to Dec. 29, 1959, at site 5.0 mi upstream at elevation 55 ft higher. Dec. 29, 1959 to Nov. 15, 1964, at site 0.4 mi upstream at elevation 5 ft higher. Prior to Nov. 28, 1966, at elevation 2.0 ft higher.

REMARKS.--Water-discharge records good. Flow completely regulated by Navajo Reservoir (station 09355100) 7 mi upstream except for minor inflow from 30 mi² intervening drainage area. High-water diversions through Azotea tunnel (station 08284160) into Rio Grande basin began in March 1971. Diversions for irrigation of about 47,000 acres upstream from station. Releases from Navajo Reservoir, beginning in January 1976, for use on Navajo Indian Irrigation Project bypass gage in tunnel on left bank. See tabulation below for monthly and annual releases as furnished by U.S. Bureau of Reclamation. National Weather Service satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	604	515	762	776	574	543	500	845	4600	3480	624	635
2	612	511	764	779	578	541	500	1130	4610	3470	622	635
3	616	641	765	796	579	543	500	1700	4660	3450	624	628
4	624	755	760	805	585	536	505	1930	4650	3440	619	613
5	671	750	757	776	585	535	504	2180	4630	3360	626	617
6	738	735	757	792	581	533	500	2770	4640	3160	624	614
7	778	729	757	792	574	531	499	2920	4630	2810	620	618
8	779	727	757	802	551	529	496	2930	4630	2400	624	617
9	779	728	757	802	527	529	497	2960	4640	2310	625	613
10	779	735	760	805	529	528	494	3090	4620	2310	630	607
11	773	750	764	796	529	525	493	3350	4640	2200	626	606
12	772	750	765	787	527	529	491	3620	4640	2250	628	611
13	772	759	764	790	529	524	493	3840	4600	2310	633	612
14	772	757	765	789	517	523	495	3820	4520	1980	631	609
15	633	754	772	787	530	523	502	3860	4510	1840	635	605
16	516	757	772	789	529	523	500	3880	4480	1800	644	604
17	525	757	764	779	533	523	495	3920	4480	1820	639	607
18	519	757	757	759	534	519	621	3920	4470	1750	639	609
19	518	757	762	757	531	524	744	3920	4470	1640	639	610
20	517	757	764	761	535	523	778	3920	4300	1570	632	610
21	518	764	764	787	535	515	772	3940	3990	1510	632	610
22	518	764	764	855	535	513	772	3930	3780	1400	637	608
23	519	764	767	855	535	517	775	4030	3770	1300	633	609
24	521	764	772	688	534	519	775	4360	3770	1280	632	610
25	516	761	772	524	537	513	854	4570	3760	1210	632	607
26	516	759	772	578	541	514	870	4340	3760	978	634	605
27	511	764	772	584	541	514	843	4190	3740	749	637	601
28	511	764	772	574	546	515	849	4570	3720	685	638	604
29	511	764	772	573	---	498	849	4570	3700	632	635	603
30	513	764	772	572	---	478	841	4570	3600	624	624	603
31	511	---	772	572	---	489	---	4590	---	624	638	---
TOTAL	18962	22013	23716	22881	15261	16169	18807	108165	129010	60342	19556	18340
MEAN	612	734	765	738	545	522	627	3489	4300	1947	631	611
MAX	779	764	772	855	585	543	870	4590	4660	3480	644	635
MIN	511	511	757	524	517	478	491	845	3600	624	619	601
AC-FT	37610	43660	47040	45380	30270	32070	37300	214500	255900	119700	38790	36380
(†)	6000	0	0	0	0	2000	12000	22000	35500	41400	38300	22700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1994, BY WATER YEAR (WY)

	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
MEAN	898	940	1074	1140	1142	1189	1442	1684	1690	1311	990	937
MAX	2131	3018	2886	2768	2382	4216	4768	4962	5169	5126	3508	2674
(WY)	1966	1966	1966	1986	1987	1993	1979	1985	1979	1979	1973	1973
MIN	298	240	162	115	149	207	244	279	300	320	353	337
(WY)	1963	1963	1963	1963	1963	1964	1964	1967	1967	1967	1963	1963

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1963 - 1994
ANNUAL TOTAL	619182	473222	
ANNUAL MEAN	1696	1296	a1203
HIGHEST ANNUAL MEAN			2686
LOWEST ANNUAL MEAN			280
HIGHEST DAILY MEAN	4540	4660	6420
LOWEST DAILY MEAN	511	478	30
ANNUAL SEVEN-DAY MINIMUM	512	494	108
INSTANTANEOUS PEAK FLOW		4750	b18900
INSTANTANEOUS PEAK STAGE		6.47	c11.00
INSTANTANEOUS LOW FLOW		477	8.0
ANNUAL RUNOFF (AC-FT)	1228000	938600	871600
10 PERCENT EXCEEDS	4440	3900	2630
50 PERCENT EXCEEDS	759	749	699
90 PERCENT EXCEEDS	557	517	401

a-Average discharge for 7 years (water year 1956-62), 1,304 ft³/s, 944,700 acre-ft/yr, prior to closure of Navajo Dam.

b-Site and datum then in use.

c-Maximum discharge since construction of Navajo Dam in 1962, 6,500 ft³/s, June 20, 1965, gage height 4.75 ft.

(†) DISCHARGE, IN ACRE-FT, THROUGH NAVAJO INDIAN IRRIGATION TUNNEL.

SAN JUAN RIVER BASIN

09355500 SAN JUAN RIVER NEAR ARCHULETA, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
OCT 1993										
04...	1130	608	282	8.9	21.0	9.0	1.5	625	10.8	114
NOV										
29...	1430	750	276	8.6	9.5	8.0	2.2	625	10.6	109
FEB 1994										
03...	1205	575	242	8.2	2.5	4.0	3.4	642	12.2	111
MAY										
06...	1130	2800	248	7.9	14.0	6.5	8.0	621	12.0	120
JUL										
26...	1715	810	248	8.8	35.0	13.0	1.0	621	8.3	97
AUG										
29...	1600	673	242	8.9	29.0	12.5	0.20	620	13.0	150

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)
OCT 1993									
04...	110	25	31	6.7	15	0.6	1.9	90	4
NOV									
29...	100	22	30	6.6	15	0.6	1.9	89	4
FEB 1994									
03...	94	21	28	5.8	13	0.6	1.7	89	0
MAY									
06...	95	18	28	6.2	13	0.6	1.9	94	0
JUL									
26...	92	19	27	5.9	13	0.6	1.7	76	6
AUG									
29...	94	20	28	5.9	12	0.5	1.6	78	6

DATE	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SAM- PLING METHOD, CODES (82398)
OCT 1993									
04...	80	84	50	1.6	0.20	10	166	165	--
NOV									
29...	79	82	52	1.6	0.20	11	169	166	--
FEB 1994									
03...	73	77	41	1.6	0.20	11	158	146	10
MAY									
06...	77	79	40	1.8	0.20	12	156	149	10
JUL									
26...	76	76	42	2.2	0.30	11	149	146	--
AUG									
29...	74	75	41	1.7	0.10	11	145	146	10

LOCATION.--Lat 36°27'23, long 108°00'15", in SE¼, sec. 28. T.26 N, R.11 W, San Juan County, Hydrologic Unit 14080101, on right bank 1,000 ft. upstream from bridge on San Juan County Highway 7150, 0.2 mi Southeast of

GAGE.--Water-stage recorder. Elevation of gage is 5,490 ft above National Geodetic Vertical Datum of 1929, from topographic map.

EXTREMES FOR September 1993--Maximum daily discharge, 1.1 ft³/s, September 14, minimum daily, no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993
DAILY MEAN VALUES

[illegible]

SAN JUAN RIVER BASIN

09357245 GALLEGOS CANYON AT NIIP NR CARSON TRADING POST, NM -- Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.5
4	.00	.00	.00	.00	e.02	.00	.00	.00	.00	.00	.00	.02
5	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	e.02	.00	.00	.00	.00	.00	.00	.00
7	.20	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	e.01	.06	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.82	.00	.00	.00	.00	.00	.00	.00	.00	.62	.00
12	.00	.31	.00	.00	.00	.00	.00	.40	.00	.00	.02	15
13	.00	.30	.00	.00	.00	.00	.00	.00	.00	.00	.00	e5.0
14	.00	3.2	.00	.00	.00	.00	.00	.00	.00	.00	.07	e.00
15	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.05	e.00
16	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	e.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.38	.00	.00	e.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	e.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.9	.00	e.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.7	.00	e.00
25	.00	.00	.00	.00	.00	.00	.00	5.5	.00	.10	.00	e.00
26	.00	.00	.00	.00	.00	.00	.00	.13	.00	.00	.00	e.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	e.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	e1.0
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.20	4.67	0.00	0.00	0.07	0.07	0.00	6.03	0.53	7.70	0.76	26.52
MEAN	.006	.16	.000	.000	.002	.002	.000	.19	.018	.25	.025	.88
MAX	.20	3.2	.00	.00	.02	.06	.00	5.5	.38	4.9	.62	15
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.4	9.3	.00	.00	.1	.1	.00	12	1.1	15	1.5	53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1994, BY WATER YEAR (WY)

MEAN	.006	.16	.000	.000	.002	.002	.000	.19	.018	.25	.025	.88
MAX	.006	.16	.000	.000	.002	.002	.000	.19	.018	.25	.025	.88
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994
MIN	.006	.16	.000	.000	.002	.002	.000	.19	.018	.25	.025	.88
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1994 WATER YEAR

WATER YEARS 1993 - 1994

ANNUAL TOTAL	46.55	
ANNUAL MEAN	.13	.13
HIGHEST ANNUAL MEAN		.13
LOWEST ANNUAL MEAN		.13
HIGHEST DAILY MEAN	15	Sep 12 1994
LOWEST DAILY MEAN	.00	Oct 1 1993
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 8 1993
INSTANTANEOUS PEAK FLOW	633	Sep 12 1994
INSTANTANEOUS PEAK STAGE	2.63	Sep 12 1994
ANNUAL RUNOFF (AC-FT)	92	92
10 PERCENT EXCEEDS	.00	.43
50 PERCENT EXCEEDS	.00	.00
90 PERCENT EXCEEDS	.00	.00

e Estimated

a-From rating curve extended 130 ft³/s.

SAN JUAN RIVER BASIN

09357245 GALLEGOS CANYON AT NIIP NEAR CARSON TRADING POST, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1993 To current year

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	ENDING TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND (00060)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)
MAR 1994											
08...	0320	--	--	0.70	1630	--	--	--	--	--	--
MAY											
12...	0212	--	--	0.20	1080	9.1	--	--	--	--	--
12...	0445	--	--	0.70	1030	9.1	--	--	--	--	--
25...	0850	--	--	0.40	2010	--	--	--	--	--	--
JUN											
19...	1843	--	--	1.6	2030	--	--	--	--	--	--
21...	1845	--	--	5.0	1870	--	--	--	--	--	--
JUL											
23...	2023	--	--	200	1840	--	--	--	--	--	--
24...	2153	--	--	14	748	--	--	--	--	--	--
25...	0035	--	--	0.20	658	--	--	--	--	--	--
25...	0056	--	--	0.90	650	--	--	--	--	--	--
25...	0129	--	--	2.4	646	--	--	--	--	--	--
AUG											
11...	2100	--	--	31	2270	7.7	--	--	--	--	--
14...	1920	--	--	0.30	1360	8.5	--	--	--	--	--
SEP											
03-03	0617	0748	0.70	--	1180	9.6	8	2.7	0.20	250	40
03...	0622	--	--	0.70	809	9.3	--	--	--	--	--
03...	0647	--	--	0.40	2460	9.6	--	--	--	--	--
03...	0722	--	--	0.40	952	9.5	--	--	--	--	--

[illegible]

SAN JUAN RIVER BASIN

09357245 GALLEGOS CANYON AT NIIP NEAR CARSON TRADING POST, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, DIS- TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994											
08...	--	--	--	--	--	--	11	--	--	--	--
MAY											
12...	--	--	--	--	--	--	8	--	--	--	--
12...	--	--	--	--	--	15	<1	--	--	--	--
25...	--	--	--	--	--	--	<1	--	--	--	--
JUN											
19...	--	--	--	--	--	--	4	--	--	--	--
21...	--	--	--	--	--	--	3	--	--	--	--
JUL											
23...	--	--	--	--	--	--	2	--	--	--	--
24...	--	--	--	--	--	--	9	--	--	--	--
25...	--	--	--	--	--	--	12	--	--	--	--
25...	--	--	--	--	--	--	11	--	--	--	--
25...	--	--	--	--	--	--	12	--	--	--	--
AUG											
11...	--	--	--	--	--	--	4	--	--	--	--
14...	--	--	--	--	--	--	4	--	--	--	--
SEP											
03-03	<1	29	<1	<0.1	<1	--	1	38	3	-41.9	-7.31
03...	--	--	--	--	--	--	1	--	--	--	--
03...	--	--	--	--	--	--	<1	--	--	--	--
03...	--	--	--	--	--	--	2	--	--	--	--

SAN JUAN RIVER BASIN.

09357255 GALLEGOS CANYON AT NIIP NEAR FARMINGTON, NM

LOCATION.--Lat 36°41'27", long 108°06'32", in SE $\frac{1}{4}$, sec. 28, T. 29 N, R. 12 W, San Juan County, Hydrologic Unit 14080101, on right bank 0.9 mi upstream from mouth, 3.7 mi downstream from bridge on Navajo Highway 3003, and 6.1 mi downstream of Eschscholtz, Ariz.

PERIOD OF RECORD.--September 1993 to September 1994 (discontinued).

GAGE.--Water stage recorder. Elevation of gage is 5,340 above National Geodetic Vertical Datum of 1929, from river profile map.

REMARKS.--Record fair except those for estimated daily discharges, which are poor.

EXTREMES FOR SEPTEMBER 1993.--Maximum daily discharge, 200 ft³/s, September 14; minimum daily no flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993
DAILY MEAN VALUES

[illegible]

SAN JUAN RIVER BASIN

09357255 GALLEGOS CANYON AT NIIP NEAR FARMINGTON, NM --Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	9.1	15	e14	e13	8.9	6.8	5.0	1.6	9.1	5.9	56
2	19	8.3	13	e12	e16	9.0	6.0	4.8	2.2	7.0	9.0	3.1
3	21	9.4	12	e13	e19	8.1	6.7	7.1	5.3	9.3	12	13
4	31	8.8	8.7	e12	24	8.7	6.2	10	9.7	6.7	20	1.6
5	51	7.5	10	e14	30	11	8.6	7.0	11	5.8	26	1.1
6	35	9.4	5.9	e16	16	12	7.0	9.2	11	10	25	1.2
7	95	14	14	e19	12	14	6.4	7.3	15	5.1	9.5	6.1
8	20	9.7	11	e16	19	16	9.6	31	9.3	14	20	7.0
9	10	14	28	e14	9.2	10	14	14	15	16	17	9.2
10	8.2	15	61	e12	9.0	9.4	11	16	18	13	23	10
11	7.7	31	17	e13	12	11	9.1	51	17	21	22	9.7
12	15	34	12	e12	8.7	13	12	18	16	25	16	16
13	8.1	26	6.4	e11	12	12	8.7	9.5	15	24	13	13
14	36	31	e9.0	e12	12	9.3	3.8	8.3	11	20	21	15
15	29	32	e13	e10	9.3	8.2	6.0	9.0	11	18	24	15
16	29	12	e20	e11	12	7.9	6.7	7.9	14	30	23	12
17	31	15	e22	e10	12	9.3	9.6	20	15	28	10	7.9
18	33	13	e19	e11	15	12	9.6	14	17	15	4.4	13
19	9.8	15	e16	e10	10	14	8.8	31	34	8.9	16	9.8
20	20	14	e13	e9.0	11	21	9.0	33	50	9.6	15	17
21	32	12	e12	e10	10	9.6	8.7	32	19	22	21	17
22	117	14	e13	e11	8.7	9.2	3.1	33	23	18	30	10
23	6.6	14	e15	e10	9.3	42	4.1	23	9.8	16	29	9.6
24	9.1	14	e13	e15	9.5	5.2	3.4	32	12	7.7	23	12
25	28	4.8	e15	e20	10	4.8	4.4	64	11	21	16	7.9
26	90	10	e18	e18	8.6	5.9	4.2	5.4	10	22	8.9	6.8
27	96	16	e20	e22	8.5	4.7	4.2	5.1	11	19	9.4	10
28	19	20	e15	e25	14	4.7	4.2	4.4	7.4	22	11	27
29	10	31	e12	e15	---	6.0	5.2	3.8	.77	24	38	32
30	11	27	e13	e10	---	5.6	5.3	3.1	8.2	24	18	28
31	11	---	e12	e11	---	7.4	---	2.5	---	17	11	---
TOTAL	1002.5	491.0	484.0	418.0	359.8	329.9	211.9	521.4	410.27	508.2	547.1	397.0
MEAN	32.3	16.4	15.6	13.5	12.8	10.6	7.06	16.8	13.7	16.4	17.6	13.2
MAX	117	34	61	25	30	42	14	64	50	30	38	56
MIN	6.6	4.8	5.9	9.0	8.5	4.7	3.1	2.5	.77	5.1	4.4	1.1
AC-FT	1990	974	960	829	714	654	420	1030	814	1010	1090	787

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1994, BY WATER YEAR (WY)

	MEAN	32.3	16.4	15.6	13.5	12.8	10.6	7.06	16.8	13.7	16.4	17.6	13.2
MAX	32.3	16.4	15.6	13.5	12.8	10.6	7.06	16.8	13.7	16.4	17.6	13.2	13.2
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994
MIN	32.3	16.4	15.6	13.5	12.8	10.6	7.06	16.8	13.7	16.4	17.6	13.2	13.2
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1994 WATER YEAR

WATER YEARS 1993 - 1994

ANNUAL TOTAL	5681.07		
ANNUAL MEAN	15.6	15.6	
HIGHEST ANNUAL MEAN		15.6	1994
LOWEST ANNUAL MEAN		15.6	1994
HIGHEST DAILY MEAN	117	200	Sep 13 1993
LOWEST DAILY MEAN	.77	.00	Sep 3 1993
ANNUAL SEVEN-DAY MINIMUM	3.2	3.2	May 27 1994
INSTANTANEOUS PEAK FLOW	2550	a2550	Sep 1 1994
INSTANTANEOUS PEAK STAGE	2.24	2.24	Sep 1 1994
INSTANTANEOUS LOW FLOW	.18	.18	Jun 1 1994
ANNUAL RUNOFF (AC-FT)	11270	11280	
10 PERCENT EXCEEDS	29	33	
50 PERCENT EXCEEDS	12	12	
90 PERCENT EXCEEDS	5.9	5.9	

e Estimated

a-From rating curve extended 350 ft³/s.

SAN JUAN RIVER BASIN

09357255 GALLEGOS CANYON AT NIIP NEAR FARMINGTON, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1993 To current year

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg) (00925)
OCT 1993												
21...	0850	25	762	--	--	8.5	--	--	--	--	--	--
28...	1040	32	825	--	--	7.0	--	--	--	--	--	--
NOV												
05...	1140	8.0	680	--	--	9.0	--	--	--	--	--	--
10...	0900	6.0	2200	--	--	0.5	--	--	--	--	--	--
17...	1030	18	2330	--	--	2.5	--	--	--	--	--	--
24...	0945	25	1960	--	--	2.5	--	--	--	--	--	--
DEC												
02...	1000	4.0	2860	--	--	0.0	--	--	--	--	--	--
09...	1030	19	3110	--	--	0.5	--	--	--	--	--	--
15...	1530	E13	2330	--	--	0.0	--	--	--	--	--	--
23...	1135	E15	3680	--	--	1.0	--	--	--	--	--	--
30...	1130	E13	3780	--	--	0.5	--	--	--	--	--	--
JAN 1994												
06...	1000	E16	2720	--	--	0.0	--	--	--	--	--	--
12...	1250	E12	2890	--	--	0.0	--	--	--	--	--	--
21...	1110	E10	3180	--	--	0.5	--	--	--	--	--	--
27...	1100	E22	1190	--	--	0.5	--	--	--	--	--	--
FEB												
03...	1340	E19	3420	--	--	0.0	--	--	--	--	--	--
11...	1110	23	2730	--	--	1.5	--	--	--	--	--	--
17...	1300	9.0	2500	--	--	11.5	--	--	--	--	--	--
22...	1145	14	2850	--	--	9.0	--	--	--	--	--	--
28...	0830	25	2700	--	--	5.0	--	--	--	--	--	--
MAR												
08...	0920	15	2730	8.1	8.5	6.5	621	7.5	76	640	210	29
16...	1400	8.0	3130	--	--	22.5	--	--	--	--	--	--
24...	0900	9.0	2050	--	--	8.5	--	--	--	--	--	--
29...	0845	9.0	2850	--	--	3.0	--	--	--	--	--	--
APR												
06...	1100	12	2870	--	--	14.0	--	--	--	--	--	--
15...	1030	6.0	2560	--	--	13.0	--	--	--	--	--	--
19...	0930	8.0	2670	--	--	15.0	--	--	--	--	--	--
28...	1415	6.0	2380	--	--	18.0	--	--	--	--	--	--
MAY												
05...	1500	18	2280	--	--	27.0	--	--	--	--	--	--
11...	1050	21	2390	--	--	21.0	--	--	--	--	--	--
19...	1730	19	2110	--	--	21.0	--	--	--	--	--	--
23...	1100	27	1730	--	--	25.0	--	--	--	--	--	--
JUN												
01...	1120	3.0	2810	--	--	26.0	--	--	--	--	--	--
09...	1620	14	1430	--	--	--	--	--	--	--	--	--
15...	0800	9.0	1410	--	--	12.0	--	--	--	--	--	--
23...	0815	11	665	--	--	16.5	--	--	--	--	--	--
JUL												
05...	1345	8.0	932	--	--	32.0	--	--	--	--	--	--
15...	0820	32	739	--	--	16.5	--	--	--	--	--	--
20...	1500	18	1300	8.6	--	32.5	--	6.4	--	260	83	12
25...	1600	9.0	1120	8.3	--	31.5	--	6.2	--	--	--	--
AUG												
02...	0930	9.0	1250	--	--	23.5	--	--	--	--	--	--
09...	0945	19	940	--	--	22.5	--	--	--	--	--	--
16...	1045	23	892	--	--	26.5	--	--	--	--	--	--
26...	0900	15	1230	--	--	20.0	--	--	--	--	--	--
31...	1450	6.0	1420	--	--	33.0	--	--	--	--	--	--
SEP												
06...	1130	1.0	1830	--	--	26.0	--	--	--	--	--	--
23...	0800	7.0	1270	--	--	6.5	--	--	--	--	--	--
29...	1015	34	881	--	--	14.5	--	--	--	--	--	--

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

[illegible]

SAN JUAN RIVER BASIN

09357255 GALLEGOS CANYON AT NIIP NEAR FARMINGTON, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
OCT 1993											
21...	--	--	--	--	--	--	3	--	--	--	--
28...	--	--	--	--	--	--	3	--	--	--	--
NOV											
05...	--	--	--	--	--	--	11	--	--	--	--
10...	--	--	--	--	--	--	14	--	--	--	--
17...	--	--	--	--	--	--	13	--	--	--	--
24...	--	--	--	--	--	--	11	--	--	--	--
DEC											
02...	--	--	--	--	--	--	14	--	--	--	--
09...	--	--	--	--	--	--	22	--	--	--	--
15...	--	--	--	--	--	--	17	--	--	--	--
23...	--	--	--	--	--	--	30	--	--	--	--
30...	--	--	--	--	--	--	30	--	--	--	--
JAN 1994											
06...	--	--	--	--	--	--	20	--	--	--	--
12...	--	--	--	--	--	--	20	--	--	--	--
21...	--	--	--	--	--	--	23	--	--	--	--
27...	--	--	--	--	--	--	17	--	--	--	--
FEB											
03...	--	--	--	--	--	--	25	--	--	--	--
11...	--	--	--	--	--	--	14	--	--	--	--
17...	--	--	--	--	--	--	18	--	--	--	--
22...	--	--	--	--	--	--	18	--	--	--	--
28...	--	--	--	--	--	--	17	--	--	--	--
MAR											
08...	<1.0	<1	2	<1	<0.1	6	19	3	40	-83.8	-10.07
16...	--	--	--	--	--	--	20	--	--	--	--
24...	--	--	--	--	--	--	13	--	--	--	--
29...	--	--	--	--	--	--	16	--	--	--	--
APR											
06...	--	--	--	--	--	--	20	--	--	--	--
15...	--	--	--	--	--	--	12	--	--	--	--
19...	--	--	--	--	--	--	17	--	--	--	--
28...	--	--	--	--	--	--	17	--	--	--	--
MAY											
05...	--	--	--	--	--	--	11	--	--	--	--
11...	--	--	--	--	--	--	11	--	--	--	--
19...	--	--	--	--	--	--	8	--	--	--	--
23...	--	--	--	--	--	--	6	--	--	--	--
JUN											
01...	--	--	--	--	--	--	16	--	--	--	--
09...	--	--	--	--	--	--	5	--	--	--	--
15...	--	--	--	--	--	--	5	--	--	--	--
23...	--	--	--	--	--	--	3	--	--	--	--
JUL											
05...	--	--	--	--	--	--	3	--	--	--	--
15...	--	--	--	--	--	--	2	--	--	--	--
20...	<1.0	1	4	<1	<0.1	4	4	5	5	-76.3	-8.72
25...	--	--	--	--	--	--	4	--	--	--	--
AUG											
02...	--	--	--	--	--	--	3	--	--	--	--
09...	--	--	--	--	--	--	3	--	--	--	--
16...	--	--	--	--	--	--	2	--	--	--	--
26...	--	--	--	--	--	--	4	--	--	--	--
31...	--	--	--	--	--	--	6	--	--	--	--
SEP											
06...	--	--	--	--	--	--	7	--	--	--	--
23...	--	--	--	--	--	--	5	--	--	--	--
29...	--	--	--	--	--	--	4	--	--	--	--

LOCATION.--Lat 37°02'17", long 107°52'25", in sec.7, T.32 N., R.9 W., La Plata County, Colorado, Hydrologic Unit 14080104, on right bank 0.8 mi downstream from Florida River, 2.5 mi upstream from Colorado-New Mexico State line. 8.5 mi north of Cedar Hill. and at mile 32.9.

WATER-DISCHARGE RECORDS

REVISED RECORDS.--WSP 1563: 1940 and 1946 (monthly figures only).

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 20,000 acres upstream from station. During water years 1944-49, Twin Rocks Canal diverted upstream from station for irrigation downstream. Slight regulation by Lemon Dam about 30 mi upstream on Florida River since November 1963 (capacity, 40,100 acre-ft). Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1994, BY WATER YEAR (WY)

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR		FOR 1994 WATER YEAR		WATER YEARS 1934 - 1994	
ANNUAL TOTAL	475720		269549			
ANNUAL MEAN	1303		738		926	
HIGHEST ANNUAL MEAN					1713	1941
LOWEST ANNUAL MEAN					340	1977
HIGHEST DAILY MEAN	7130	May 28	3640	Jun 6	11800	Jun 19 1949
LOWEST DAILY MEAN	231	Dec 15	185	Jan 31	.00	Nov 1 1933
ANNUAL SEVEN-DAY MINIMUM	241	Dec 14	217	Feb 10	.00	Nov 1 1933
INSTANTANEOUS PEAK FLOW			4790	Jun 1	13100	Jun 19 1949
INSTANTANEOUS PEAK STAGE			8.30	Jun 1	11.45	Jun 19 1949
INSTANTANEOUS LOW FLOW			185	Feb 14	63	Jan 21 1935
ANNUAL RUNOFF (AC-FT)	943600		534700		670800	
10 PERCENT EXCEEDS	3710		2200		2420	
50 PERCENT EXCEEDS	640		374		404	
90 PERCENT EXCEEDS	260		251		210	

SAN JUAN RIVER BASIN

09363500 ANIMAS RIVER NEAR CEDAR HILL, NM -- Continued

PERIOD OF RECORD.--Water years 1943, 1945, 1958-59, 1969-73, 1975, 1987 to current year.

WATER QUALITY DATA WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
NOV 1993 02...	1200	349	611	8.6	15.5	6.0	615	12.3	123	<10	K1
JAN 1994 31...	1450	185	648	8.5	-2.0	0.0	614	12.1	103	<10	<1
MAY 24...	1245	3290	186	8.3	22.0	8.5	612	9.7	104	20	31
AUG 29...	1305	307	631	8.6	30.5	16.5	614	9.3	119	<10	23

DATE	STREP-TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
NOV 1993 02...	K1	260	83	14	24	0.6	3.0	143	130	19
JAN 1994 31...	<1	270	85	14	26	0.7	3.2	165	140	20
MAY 24...	31	83	27	3.7	2.9	0.1	0.80	58	31	2.1
AUG 29...	40	240	74	14	31	0.9	4.2	160	120	27

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
NOV 1993 02...	0.40	7.3	368	0.190	0.020	0.210	0.050	0.20	<0.010	<0.010
JAN 1994 31...	0.40	10	400	0.390	0.030	0.420	0.040	0.20	0.030	0.010
MAY 24...	0.20	5.2	109	0.130	0.030	0.160	0.050	0.20	0.080	0.010
AUG 29...	0.40	8.9	376	--	<0.010	<0.050	0.010	<0.20	0.010	<0.010

DATE	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO-GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO-GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)
NOV 1993 02...	1.8	70	12	12	60	1400	790	7	3	5
JAN 1994 31...	1.8	70	<3	--	--	--	--	--	--	--
MAY 24...	3.2	10	76	--	--	--	--	--	--	--
AUG 29...	2.1	90	4	--	--	--	--	--	--	--

SAN JUAN RIVER BASIN

09363500 ANIMAS RIVER NEAR CEDAR HILL, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB) (01052)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN) (01093)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 1993										
02...	10	50	13000	110	920	0.03	620	20	19	64
JAN 1994										
31...	--	--	--	--	--	--	--	23	11	55
MAY										
24...	--	--	--	--	--	--	--	199	1770	38
AUG										
29...	--	--	--	--	--	--	--	48	40	75

SAN JUAN RIVER BASIN

09364500 ANIMAS RIVER AT FARMINGTON, NM

LOCATION.--Lat 36°43'17", long 108°12'05", in SW¼SW¼ sec.15, T.29 N., R.13 W., San Juan County, Hydrologic Unit 14080104, in Boyd City Park, on right bank 900 ft upstream from bridge on Miller Ave., 0.4 mi downstream from bridge on U.S. Highway 66 in Farmington, and 1.5 mi upstream from mouth of Animas River.

DRAINAGE AREA.--1.360 mi², approximately.

PERIOD OF RECORD.--June 1904 to October 1905 (published as "near Farmington"), September 1912 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1931. WSP 1313: 1913.

GAGE.--Water-stage recorder. Elevation of gage is 5,280 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 1, 1905, non recording gage at old bridge 0.1 mi upstream at different datum. Sept. 17, 1912, to Oct. 4, 1938, water-stage recorder at site 0.8 mi downstream at lower datums (datum lowered 2.0 ft Aug. 15, 1927, and raised 0.2 ft Dec. 16, 1929). Oct. 5, 1938, to Nov. 1, 1973, at site 900 ft downstream at datum 1.74 ft lower.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 30,000 acres upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood occurred Oct. 6, 1911, when a stage of about 16.5 ft was reached (datum in use Oct. 1938 to Nov. 1973). Flood of Sept. 6, 1909, reached a stage of 11.1 ft, 1904-5 site and datum (discharge, about 19,000 ft³/s).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	287	391	327	277	e240	419	245	592	4210	847	182	113
2	281	393	326	291	e225	384	239	590	4310	759	193	155
3	281	383	318	301	e235	375	250	578	4420	705	184	322
4	273	372	296	300	280	386	257	619	4750	651	161	445
5	255	373	292	303	293	380	257	645	4730	628	155	569
6	244	366	293	299	270	363	270	880	4180	590	152	415
7	300	349	291	314	261	343	238	1290	3630	509	163	340
8	327	340	292	323	270	334	222	1520	3170	438	156	302
9	382	338	291	e330	282	344	243	1470	3040	405	134	257
10	373	325	302	335	259	291	305	1520	2950	353	151	233
11	377	358	308	334	250	275	326	1260	2920	325	264	223
12	396	479	309	332	257	268	303	1320	2530	331	324	227
13	400	436	304	328	238	252	283	1780	2240	293	232	515
14	389	441	286	330	233	256	283	2020	2340	248	223	1010
15	376	412	272	330	237	260	312	2170	2290	223	240	1210
16	360	389	286	328	259	256	374	2460	2080	200	247	878
17	423	365	280	321	256	269	389	2730	1880	178	226	693
18	503	366	266	321	304	296	498	2840	1780	186	179	624
19	470	358	270	330	410	323	625	2740	1710	191	159	593
20	446	363	271	326	314	336	693	2740	1760	191	161	539
21	419	369	293	322	282	373	759	2550	1820	179	181	555
22	414	360	e305	319	272	337	839	2420	2250	174	190	577
23	427	377	e310	314	264	322	1050	2660	2360	163	182	525
24	410	387	e310	325	245	334	1120	2810	1810	154	162	465
25	402	358	e315	323	254	319	1090	2910	1530	180	154	404
26	390	339	e315	307	293	316	938	2770	1360	192	149	379
27	381	e335	e310	296	383	307	801	2220	1250	202	146	316
28	382	e330	303	289	385	301	730	2270	1180	211	121	281
29	379	325	277	282	---	293	666	2810	1050	190	110	262
30	404	325	279	274	---	279	688	3550	954	211	116	346
31	396	---	269	e270	---	262	---	4140	---	184	149	---
TOTAL	11547	11102	9166	9674	7751	9853	15293	62874	76484	10291	5546	13773
MEAN	372	370	296	312	277	318	510	2028	2549	332	179	459
MAX	503	479	327	335	410	419	1120	4140	4750	847	324	1210
MIN	244	325	266	270	225	252	222	578	954	154	110	113
AC-FT	22222	22222	12122	12122	12222	12540	30222	124722	121722	22412	11222	27322

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 1994, BY WATER YEAR (WY)

	MEAN	430	351	295	275	298	444	1001	2416	2992	1107	484	436
MAX	2726	1140	609	554	675	995	2489	6126	6930	3609	1971	2182	
(WY)	1942	1942	1987	1920	1920	1993	1979	1920	1920	1957	1921	1925	
MIN	87.0	152	174	163	162	112	54.1	195	235	46.4	49.8	10.6	
(WY)	1957	1935	1964	1964	1964	1977	1977	1977	1934	1934	1950	1956	

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1914 - 1994
ANNUAL TOTAL	455376	243354	
ANNUAL MEAN	1248	667	878
HIGHEST ANNUAL MEAN			1733
LOWEST ANNUAL MEAN			239
HIGHEST DAILY MEAN	7390	May 28	4750 Jun 4
LOWEST DAILY MEAN	244	Oct 6	110 Aug 29
ANNUAL SEVEN-DAY MINIMUM	259	Jan 12	129 Aug 26
INSTANTANEOUS PEAK FLOW			5440 Jun 4
INSTANTANEOUS PEAK STAGE			8.15 Jun 4
INSTANTANEOUS LOW FLOW			69 Sep 1
ANNUAL RUNOFF (AC-FT)	903200	482700	636200
10 PERCENT EXCEEDS	3680	1940	2320
50 PERCENT EXCEEDS	525	327	373
90 PERCENT EXCEEDS	286	192	186

e Estimated

a-Site and datum then in use.

b-From rating curve extended above 10,000 ft³/s.

SAN JUAN RIVER BASIN

09365000 SAN JUAN RIVER AT FARMINGTON, NM

LOCATION.--Lat 36°43'22", long 108°13'30", in NW¼ sec.17, T.29 N., R.13 W., San Juan County, Hydrologic Unit 14080105, on left bank 360 ft downstream from highway bridge on State Highway 371 in Farmington, 4,000 ft downstream from Animas River, 2.3 mi upstream from La Plata River, and at mile 251.4.

DRAINAGE AREA.--7,240 mi², approximately.

PERIOD OF RECORD.--June to December 1904, January 1905 to September 1906 (gage heights and discharge measurements only), September 1912 to current year. Monthly discharge only for some periods, published in WSP 1313.

Discharge records for January to December 1905, published in WSP 175, are unreliable and should not be used.

REVISED RECORDS.--WSP 1119: Drainage area. WSP 1243: 1938. WSP 1313: 1905, 1914. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 5,230.37 ft above National Geodetic Vertical Datum of 1929. See WSP 1313 or 1733 for history of changes prior to Nov. 19, 1933.

REMARKS.--Records good except for estimated daily discharges, which are fair. Since June 1962 flow is partly controlled by operation of Navajo Reservoir (station 09355100) 50 mi upstream. Diversions upstream from station for irrigation of about 86,000 acres, 4,000 of which is irrigated by Farmers Mutual ditch, which diverts from Animas River and bypasses this station; ditch flow not included in record. At times this ditch may be supplied partly or entirely by diversion from San Juan River downstream from this station. National Weather Service gage-height telemeter and U.S. Bureau of Reclamation satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood occurred Oct. 6, 1911. Flood of Sept. 6, 1909, reached a stage of about 12.3 ft, site and datum in use May to September 1906.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	869	946	1160	1070	836	1150	640	1560	8890	3790	636	718
2	857	946	1150	1080	819	1070	643	1600	9080	3710	625	673
3	848	942	1140	1090	845	1020	653	2190	9190	3670	636	982
4	866	1200	1130	1080	889	960	670	2560	9570	3600	618	1100
5	860	1200	1120	1070	916	904	717	2550	9670	3530	608	1070
6	939	1160	1120	1090	874	868	687	3320	9120	3340	773	930
7	1160	1140	1110	1080	850	822	667	3740	8560	3110	637	952
8	1160	1160	1110	1090	853	823	657	4030	8110	2730	615	876
9	1170	1140	1120	1110	831	842	771	4040	7960	2580	613	803
10	1160	1130	1120	1110	795	792	789	4080	7840	2530	606	736
11	1160	1200	1130	1110	781	769	733	4070	7790	2490	674	740
12	1200	1440	1140	1090	784	776	731	4300	7410	2340	733	746
13	1210	1250	1130	1090	772	745	694	5310	7100	2570	620	1070
14	1240	1290	1120	1110	754	740	668	5600	7080	2180	729	1780
15	1220	1240	1100	1110	773	743	697	5750	7010	2050	1430	1840
16	956	1200	1100	1110	784	753	749	6270	6770	1940	858	1490
17	1000	1170	1110	1130	793	767	759	6510	6560	1940	630	1220
18	1100	1160	1100	1110	855	796	868	6600	6450	1940	604	1130
19	1040	1170	1090	1120	995	838	1180	6420	6410	1820	605	1110
20	1020	1130	1090	1110	884	854	1310	6430	6460	1710	610	1070
21	993	1150	1080	1120	834	877	1350	6280	6060	1670	641	1100
22	1000	1130	1080	1160	797	836	1460	6400	6340	1570	660	1120
23	986	1150	1080	1180	788	811	1740	6610	6390	1430	665	1050
24	970	1170	1070	1200	780	817	1880	6990	5730	1350	632	979
25	964	1130	1060	867	795	775	1950	7730	5350	1400	622	916
26	990	1100	1060	877	816	769	1960	7320	5080	1280	606	885
27	1020	1080	1090	910	937	752	1800	6210	4840	923	609	809
28	976	1150	1110	906	1160	752	1720	6840	4590	823	606	780
29	939	1160	1120	900	---	762	1620	7450	4300	739	614	780
30	959	1170	1090	875	---	681	1660	8220	4110	707	618	857
31	953	---	1070	854	---	650	---	8860	---	670	623	---
TOTAL	31785	34604	34300	32809	23590	25514	32423	165840	209820	66132	20756	30312
MEAN	1025	1153	1106	1058	842	823	1081	5350	6994	2133	670	1010
MAX	1240	1440	1160	1200	1160	1150	1960	8860	9670	3790	1430	1840
MIN	848	942	1060	854	754	650	640	1560	4110	670	604	673
AC-FT	63050	68640	68030	65080	46790	50610	64310	328900	416200	131200	41170	60120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1994, BY WATER YEAR (WY)

	1206	1006	987	1020	1155	1579	3091	5060	5430	2234	1267	1140
MEAN	1206	1006	987	1020	1155	1579	3091	5060	5430	2234	1267	1140
MAX	7271	3549	3381	3271	3032	5304	9133	18830	14990	8639	4938	3331
(WY)	1942	1987	1966	1986	1987	1993	1932	1941	1941	1957	1957	1970
MIN	286	315	362	329	374	349	391	576	517	192	166	170
(WY)	1957	1951	1957	1963	1964	1964	1964	1977	1934	1934	1939	1956

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1931 - 1994

ANNUAL TOTAL	1074394	707885	
ANNUAL MEAN	2944	1939	2099
HIGHEST ANNUAL MEAN			5054
LOWEST ANNUAL MEAN			728
HIGHEST DAILY MEAN	10600	9670	30000
LOWEST DAILY MEAN	758	604	27
ANNUAL SEVEN-DAY MINIMUM	824	614	37
INSTANTANEOUS PEAK FLOW		10300	668000
INSTANTANEOUS PEAK STAGE		6.61	a10.20
INSTANTANEOUS LOW FLOW		597	14
ANNUAL RUNOFF (AC-FT)	2131000	1404000	1520000
10 PERCENT EXCEEDS	6540	6270	5080
50 PERCENT EXCEEDS	1290	1090	1110
90 PERCENT EXCEEDS	908	678	442

e Estimated

a-Site and datum then in use.

b-From rating curve extended above 37,000 ft³/s.

SAN JUAN RIVER BASIN

09366500 LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE

LOCATION.--Lat 36°59'51", long 108°11'17", in NW¼SE¼ sec.10, T.32 N., R.13 W., La Plata County, Colorado, Hydrologic Unit 14090105, on left bank at Colorado-New Mexico State line, 0.2 mi. downstream from Bonds Avenue, and 4.8 mi. north of La Plata, NM.

DRAINAGE AREA.--331 mi².

PERIOD OF RECORD.--January 1920 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1934(M), 1936(M).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,975.15 ft above National Geodetic Vertical Datum of 1929. See WSP 1713 or 1733 for history of changes prior to Mar. 17, 1934.

REMARKS.--Estimated daily discharges: Nov. 25-29, Dec. 13-28, Dec. 30 to Jan. 4, Jan. 7-23, Jan. 30 to Feb. 3, and Feb. 13-14. Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 15,000 acres, most of which are upstream from station. No flow at times in many years.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	12	20	18	12	33	17	35	67	12	3.2	3.8
2	9.2	12	19	18	12	30	16	34	53	12	2.8	5.3
3	9.0	12	18	16	14	34	15	32	54	15	2.8	10
4	8.9	13	20	16	16	49	12	31	72	14	2.6	5.7
5	9.0	12	20	18	14	70	12	31	63	12	2.2	3.4
6	9.6	13	22	17	14	67	11	37	59	10	3.2	3.6
7	12	13	23	16	14	53	10	49	56	8.5	3.8	4.5
8	12	13	19	16	15	61	10	58	64	7.6	3.8	5.1
9	12	13	19	16	14	50	15	71	53	6.9	3.9	5.3
10	11	13	18	16	15	38	18	64	60	6.0	3.9	4.6
11	11	15	18	16	15	36	16	66	55	5.5	4.7	5.4
12	13	23	20	16	15	37	15	73	58	4.8	3.5	45
13	12	25	18	16	14	34	27	68	54	4.3	2.2	14
14	11	26	20	16	16	36	34	60	50	4.0	2.7	8.1
15	11	26	20	16	16	36	28	67	47	2.9	3.8	6.7
16	11	24	20	16	15	34	23	70	46	3.4	4.0	8.3
17	14	24	18	16	16	35	21	85	43	4.7	4.4	9.9
18	16	23	20	14	30	35	26	82	44	4.7	5.0	10
19	15	23	20	14	27	33	32	74	44	4.9	4.9	9.8
20	13	21	22	14	19	55	40	76	46	5.1	3.9	7.9
21	12	21	20	14	18	74	54	72	40	9.5	3.6	6.9
22	12	23	18	14	18	44	60	63	52	6.0	3.6	5.0
23	12	21	20	14	18	35	57	73	35	5.1	3.5	4.0
24	12	21	18	14	18	30	57	53	22	3.2	3.8	4.8
25	12	18	18	14	18	27	58	50	23	3.0	4.1	5.0
26	12	18	18	14	22	27	60	64	22	2.9	3.8	5.1
27	12	18	20	14	30	25	51	54	20	3.2	3.4	4.7
28	12	20	20	14	31	22	43	43	18	4.9	3.5	5.6
29	12	20	20	14	---	21	38	56	18	3.8	3.3	5.0
30	12	21	20	14	---	20	39	71	15	3.2	3.6	8.9
31	12	---	20	12	---	19	---	67	---	3.7	4.1	---
TOTAL	361.1	557	606	473	496	1200	915	1829	1353	196.8	111.6	231.4
MEAN	11.6	18.6	19.5	15.3	17.7	38.7	30.5	59.0	45.1	6.35	3.60	7.71
MAX	12	26	23	18	31	74	60	85	72	15	5.0	15
MIN	8.9	12	18	12	12	19	10	31	15	2.9	2.2	3.4
AC-FT	716	1100	1200	938	984	2380	1810	3630	2680	390	221	459

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1994, BY WATER YEAR (WY)

MEAN	14.0	11.9	12.1	11.6	16.9	35.7	109	112	66.8	20.1	11.9	11.4
MAX	260	99.2	53.9	38.3	53.9	130	363	506	306	99.4	65.1	126
(WY)	1942	1942	1987	1942	1924	1993	1980	1941	1957	1957	1957	1927
MIN	.097	.98	1.24	.80	2.96	.63	3.06	5.32	1.94	.019	.006	.000
(WY)	1935	1940	1978	1930	1977	1977	1977	1977	1924	1922	1922	1956

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1921 - 1994

ANNUAL TOTAL	27569.9		8329.9						
ANNUAL MEAN	75.5		22.8				36.1		
HIGHEST ANNUAL MEAN							109		1973
LOWEST ANNUAL MEAN							4.44		1977
HIGHEST DAILY MEAN	432	May 22	85	May 17		1120		May 4	1941
LOWEST DAILY MEAN	3.5	Aug 19	a2.2	Aug 5			b.00	Jul 3	1922
ANNUAL SEVEN-DAY MINIMUM	6.2	Aug 19	2.9	Jul 30			.00	Jul 3	1922
INSTANTANEOUS PEAK FLOW			614	Sep 12		c4750		Aug 24	1927
INSTANTANEOUS PEAK STAGE			5.63	Sep 12			11.36	Aug 24	1927
ANNUAL RUNOFF (AC-FT)	54680		16520			26160			
10 PERCENT EXCEEDS	256		56			86			
50 PERCENT EXCEEDS	20		16			12			
90 PERCENT EXCEEDS	11		4.0			1.6			

a-Also occurred Aug 13.

b-No flow at times in many years.

c-Present datum, from rating curve extended above 750 ft³/s, on basis of slope-area measurement of peak flow.

SAN JUAN RIVER BASIN

09367500 LA PLATA RIVER NEAR FARMINGTON, NM

LOCATION.--Lat 36°44'23", long 108°14'51", in NE¼SW¼ sec.7, T.29 N., R.13 W., San Juan County, Hydrologic Unit 14080105, on right bank 1,300 ft upstream from bridge U.S. Highway 550 in Farmington, and 1,800 ft upstream from mouth.

DRAINAGE AREA.--583 mi².

PERIOD OF RECORD.--March 1938 to current year.

REVISED RECORDS.--WSP 1243: 1944-45. WSP 1313: 1943-44(M), 1946-50(M). WSP 1733: 1951(M).

GAGE.--Water-stage recorder. Elevation of gage is 5,210 ft above National Geodetic Vertical Datum of 1929, from river-profile map. Prior to July 28, 1978, at elevation 1.0 ft higher. December 6, 1990 to July 1, 1993 at site 1,000 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 24,000 acres upstream from station. Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred Sept. 5 or 6, 1909, and Oct. 5 or 6, 1911 and September 10, 1939.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e12	21	31	27	16	32	2.4	2.7	12	.16	.07	.46
2	e11	21	29	30	21	27	2.3	2.6	13	.16	.06	.46
3	e11	19	27	29	25	23	2.3	3.6	7.8	.14	.04	1.8
4	e10	19	25	30	28	28	2.4	3.8	6.8	.14	.04	3.6
5	e10	18	25	29	28	37	2.4	3.8	13	.13	.05	.57
6	e12	21	25	28	25	43	2.4	3.8	8.9	.12	.04	.40
7	20	21	26	22	26	44	2.1	5.0	7.3	.11	.05	.40
8	17	22	28	20	28	43	2.8	6.5	7.7	.10	.05	.40
9	15	21	24	22	28	42	3.9	4.8	10	.10	.07	.40
10	15	21	25	23	24	36	3.9	7.7	9.6	.10	.06	.40
11	14	22	25	24	25	29	4.0	6.8	11	.09	.06	.41
12	18	33	26	22	23	28	3.0	11	6.9	.09	.05	.43
13	16	42	30	22	21	29	2.6	13	9.1	.08	.06	4.2
14	13	38	31	21	24	25	2.7	10	6.1	.08	.30	4.4
15	12	37	33	22	24	17	3.1	6.1	4.5	.08	.25	4.5
16	10	36	33	19	25	15	2.5	9.7	1.2	.07	.08	3.3
17	15	34	32	18	26	10	2.1	8.6	.95	.07	.08	1.8
18	15	33	31	26	31	8.3	1.9	14	.77	.08	.08	1.5
19	13	32	37	21	39	5.1	1.9	13	1.2	.08	.08	1.4
20	13	30	28	22	34	6.3	2.0	10	1.5	.07	.10	1.4
21	12	29	22	23	30	14	2.4	e16	1.7	.07	.13	1.3
22	12	29	24	22	28	19	3.3	e15	1.9	.07	.14	1.2
23	12	29	29	24	27	11	2.0	e15	2.8	.09	.21	1.2
24	11	28	22	27	28	6.2	1.8	e14	1.1	.08	.23	1.1
25	11	29	25	24	29	4.7	1.8	e50	1.8	.08	.30	1.1
26	11	28	27	25	28	5.6	1.9	37	3.0	.07	.34	1.1
27	13	30	27	25	34	5.6	3.2	22	1.0	.07	.34	1.1
28	18	36	28	25	35	4.4	2.4	13	.45	.07	.35	1.1
29	19	34	25	25	---	4.9	2.4	7.9	e.24	.07	.39	1.1
30	19	34	27	24	---	3.3	2.4	11	.18	.07	.41	2.0
31	20	---	27	17	---	2.8	---	11	---	.07	.44	---
TOTAL	430	847	854	738	760	609.2	76.3	358.4	153.49	2.86	4.95	44.53
MEAN	13.9	28.2	27.5	23.8	27.1	19.7	2.54	11.6	5.12	.092	.16	1.48
MAX	20	42	37	30	39	44	4.0	50	13	.16	.44	4.5
MIN	10	18	22	17	16	2.8	1.8	2.6	.18	.07	.04	.40
AC-FT	853	1680	1690	1460	1510	1210	151	711	304	5.7	9.8	88

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1994, BY WATER YEAR (WY)

	MEAN	21.1	12.8	13.8	17.8	24.2	33.9	93.0	70.1	34.0	9.02	11.9	11.5
MAX	537	141	73.1	100	89.2	166	408	783	252	117	64.5	170	
(WY)	1942	1987	1987	1979	1979	1993	1980	1941	1957	1986	1957	1941	
MIN	.000	.000	.000	.032	1.00	.16	.000	.000	.000	.000	.000	.000	.000
(WY)	1947	1955	1956	1957	1957	1959	1951	1939	1939	1948	1960	1955	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1938 - 1994

ANNUAL TOTAL	30932.33	4878.73	
ANNUAL MEAN	84.7	13.4	29.3
HIGHEST ANNUAL MEAN			134
LOWEST ANNUAL MEAN			.48
HIGHEST DAILY MEAN	839	Jan 8	50 May 25
LOWEST DAILY MEAN	.53	Aug 5	.04 Aug 3
ANNUAL SEVEN-DAY MINIMUM	.69	Aug 2	.05 Aug 2
INSTANTANEOUS PEAK FLOW			117 May 25
INSTANTANEOUS PEAK STAGE			2.36 May 25
INSTANTANEOUS LOW FLOW			.00 Aug 2
ANNUAL RUNOFF (AC-FT)	61350	9680	21220
10 PERCENT EXCEEDS	299	30	66
50 PERCENT EXCEEDS	27	11	4.0
90 PERCENT EXCEEDS	2.6	.09	.00

a Estimated

a-From floodmarks.

b-From rating curve extended on basis of slope-area measurement of peak flow.

SAN JUAN RIVER BASIN

09367536 OJO AMARILLO CANYON AT NIIP NEAR FRUITLAND. NM

LOCATION.--Lat 36°42'38", long 108°20'35", in SE¼, sec. 19, T.29 N., R.14 W., San Juan County, Hydrologic Unit 14080105, on right bank 100 feet upstream from bridge on Navajo Highway 36, and 3.6 mi southeast of Fruitland, NM.

$\mathcal{C} = \{C_1, \dots, C_n\}$ $\mathcal{C} = \{C_1, \dots, C_n\}$ $\mathcal{C} = \{C_1, \dots, C_n\}$

PERIOD OF RECORD.--September 1993 to September 1994 (discontinued).

GAGE.--Water stage recorder. Elevation of gage is 5,340 ft above National Geodetic Vertical Datum of 1929, from river profile map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES FOR SEPTEBER 1993.--Maximum daily discharge, 4.8 ft³/s, Sept. 13; minimum daily 2.5 ft³/s, Sept. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DAILY MEAN VALUES

[illegible]

SAN JUAN RIVER BASIN

09367536 OJO AMARILLO CANYON AT NIIP NR FRUITLAND, NM -- Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	2.0	2.0	e2.0	e1.1	1.9	1.6	2.1	2.2	.83	2.8	3.1
2	1.9	2.0	2.0	e1.9	e1.3	1.8	1.6	2.1	1.7	.90	2.8	3.0
3	1.5	2.0	2.0	e1.9	e2.2	1.8	1.6	2.1	1.6	.91	2.8	4.7
4	1.4	2.0	2.0	e1.8	e3.0	1.8	1.7	2.0	1.6	.91	2.8	3.6
5	1.3	2.0	2.0	e1.8	e4.0	1.9	2.1	2.0	1.5	.88	2.8	3.3
6	1.4	2.0	2.2	e1.7	e2.4	1.9	1.8	1.9	1.5	.98	2.8	3.1
7	3.2	1.9	1.9	1.5	e1.8	1.9	1.6	1.9	1.5	1.5	2.8	3.1
8	3.1	1.9	2.0	4.5	e2.5	2.0	1.6	2.0	1.3	1.6	2.9	3.1
9	3.0	1.8	2.0	e3.5	e2.2	1.9	1.8	2.1	1.4	1.6	3.1	3.0
10	3.0	1.9	1.9	e2.8	e2.0	1.7	1.9	2.6	1.4	1.6	3.1	3.1
11	3.0	2.4	2.0	e1.9	1.7	1.8	1.8	2.5	1.4	1.6	3.1	3.5
12	3.1	2.5	2.1	e1.5	1.6	1.8	1.6	2.5	1.5	1.5	3.0	3.6
13	3.0	2.2	1.9	e1.4	1.9	1.7	1.6	2.4	1.5	1.5	3.0	3.9
14	3.1	2.0	1.9	e1.4	7.7	1.7	1.6	2.1	1.5	1.5	3.0	3.4
15	3.1	2.0	2.1	e1.4	6.2	1.7	1.5	2.1	1.3	1.4	3.2	3.2
16	3.1	1.9	1.9	e1.3	4.0	1.7	1.5	2.0	1.2	1.4	3.1	3.2
17	4.1	1.9	1.9	e1.3	2.0	1.7	1.5	1.9	1.2	1.4	2.9	3.1
18	3.7	2.0	1.9	e1.3	1.9	1.7	1.5	1.8	1.3	1.5	2.9	3.8
19	3.4	1.9	1.9	e1.3	1.8	1.8	1.5	1.8	1.5	1.7	3.0	3.7
20	3.4	1.9	1.8	e1.3	2.6	1.9	1.5	1.8	1.3	1.5	3.0	3.5
21	3.8	2.0	1.7	e1.3	1.8	1.7	1.5	1.9	1.3	1.3	3.0	3.4
22	3.0	2.0	1.9	e1.2	1.8	1.8	1.5	1.8	1.4	1.4	3.0	3.3
23	2.3	2.0	2.7	e1.2	1.8	2.0	1.5	1.7	1.3	1.1	2.9	3.7
24	2.2	2.0	2.1	e1.2	1.8	1.8	1.6	1.7	1.2	1.0	2.9	3.4
25	2.1	1.7	2.1	e1.2	1.8	1.6	1.5	3.7	1.2	1.0	2.8	3.2
26	2.0	1.9	2.4	e1.1	1.8	1.6	1.8	2.6	1.1	.99	2.8	3.3
27	2.0	2.0	3.2	1.1	1.8	1.6	2.1	2.5	1.1	1.8	3.0	3.2
28	2.0	2.3	3.0	1.0	2.1	1.5	2.0	3.1	1.0	2.3	3.3	3.2
29	3.1	2.0	e2.7	e1.2	---	1.6	2.2	3.0	.97	2.5	3.1	3.2
30	2.8	2.0	e2.3	e1.1	---	1.6	2.1	2.9	.83	2.6	3.1	3.6
31	2.3	---	e2.1	e1.1	---	1.6	---	2.8	---	2.6	3.1	---
TOTAL	84.2	60.1	65.6	50.2	68.6	54.5	50.7	69.4	40.80	45.30	91.9	101.5
MEAN	2.72	2.00	2.12	1.62	2.45	1.76	1.69	2.24	1.36	1.46	2.96	3.38
MAX	4.1	2.5	3.2	4.5	7.7	2.0	2.2	3.7	2.2	2.6	3.3	4.7
MIN	1.3	1.7	1.7	1.0	1.1	1.5	1.5	1.7	.83	.83	2.8	3.0
AC-FT	167	119	130	100	136	108	101	138	81	90	182	201

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1994, BY WATER YEAR (WY)

	MEAN	2.72	2.00	2.12	1.62	2.45	1.76	1.69	2.24	1.36	1.46	2.96	3.38
MAX	2.72	2.00	2.12	1.62	2.45	1.76	1.69	2.24	1.36	1.46	2.96	3.38	3.38
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994
MIN	2.72	2.00	2.12	1.62	2.45	1.76	1.69	2.24	1.36	1.46	2.96	3.38	3.38
(WY)	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1994 WATER YEAR

WATER YEARS 1993 - 1994

ANNUAL TOTAL	782.80		
ANNUAL MEAN	2.14	2.14	
HIGHEST ANNUAL MEAN		2.14	1994
LOWEST ANNUAL MEAN		2.14	1994
HIGHEST DAILY MEAN	7.7	Feb 14	1994
LOWEST DAILY MEAN	.83	Jun 30	1994
ANNUAL SEVEN-DAY MINIMUM	.89	Jun 29	1994
INSTANTANEOUS PEAK FLOW	20	Feb 16	1994
INSTANTANEOUS PEAK STAGE	1.57	Feb 16	1994
INSTANTANEOUS LOW FLOW	.48	Jun 29	1994
ANNUAL RUNOFF (AC-FT)	1550		
10 PERCENT EXCEEDS	3.2	3.4	
50 PERCENT EXCEEDS	1.9	2.0	
90 PERCENT EXCEEDS	1.3	1.3	

e Estimated

SAN JUAN RIVER BASIN

09367536 OJO AMARILLO CANYON AT NIIP NEAR FRUITLAND, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1993 To current year

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD- NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)
OCT 1993												
21...	1030	3.7	2000	--	--	6.0	--	--	--	--	--	--
28...	0930	2.1	3210	--	--	4.0	--	--	--	--	--	--
NOV												
05...	1030	2.0	3210	--	--	4.0	--	--	--	--	--	--
10...	1000	1.8	3140	--	--	2.0	--	--	--	--	--	--
17...	0930	1.9	3200	--	--	3.5	--	--	--	--	--	--
24...	1030	2.0	3180	--	--	3.5	--	--	--	--	--	--
DEC												
02...	1155	2.0	3210	--	--	1.0	--	--	--	--	--	--
09...	1215	2.5	3210	--	--	0.0	--	--	--	--	--	--
15...	1650	2.1	3200	--	--	3.0	--	--	--	--	--	--
23...	1000	2.6	3170	--	--	4.5	--	--	--	--	--	--
30...	1010	E2.3	3650	--	--	0.0	--	--	--	--	--	--
JAN 1994												
06...	0910	1.7	3220	--	--	0.5	--	--	--	--	--	--
12...	1350	E1.5	3520	--	--	0.0	--	--	--	--	--	--
21...	1230	1.3	3630	--	--	0.0	--	--	--	--	--	--
27...	1230	1.0	3380	--	--	3.0	--	--	--	--	--	--
FEB												
03...	1500	2.2	3330	--	--	0.0	--	--	--	--	--	--
11...	1010	1.7	3410	--	--	2.0	--	--	--	--	--	--
17...	1510	2.2	3200	--	--	9.5	--	--	--	--	--	--
22...	0955	1.8	3320	--	--	2.5	--	--	--	--	--	--
28...	0930	2.1	3260	--	--	5.5	--	--	--	--	--	--
MAR												
08...	1410	2.0	3090	8.3	13.5	9.5	623	7.5	81	--	860	240
16...	1845	1.7	3340	--	--	13.0	--	--	--	--	--	--
24...	1030	1.8	3290	--	--	9.0	--	--	--	--	--	--
29...	0950	1.5	3260	--	--	5.0	--	--	--	--	--	--
APR												
06...	0930	1.8	3330	--	--	3.5	--	--	--	--	--	--
15...	0930	1.6	3340	--	--	7.0	--	--	--	--	--	--
19...	1145	1.6	3270	--	--	15.5	--	--	--	--	--	--
28...	1300	2.1	2690	--	--	14.0	--	--	--	--	--	--
MAY												
05...	1400	2.0	2590	--	--	23.5	--	--	--	--	--	--
11...	1155	2.2	2600	--	--	16.5	--	--	--	--	--	--
19...	1630	1.7	2540	--	--	23.0	--	--	--	--	--	--
23...	1540	1.7	2500	--	--	23.0	--	--	--	--	--	--
JUN												
01...	1215	2.6	2550	--	--	20.0	--	--	--	--	--	--
09...	1500	1.4	2370	--	--	--	--	--	--	--	--	--
15...	0845	1.6	2600	--	--	13.0	--	--	--	--	--	--
23...	0915	1.7	2580	--	--	16.5	--	--	--	--	--	--
JUL												
05...	1500	0.90	2450	--	--	26.5	--	--	--	--	--	--
15...	0900	1.8	2600	--	--	17.5	--	--	--	--	--	--
21...	0830	1.0	2550	8.0	--	18.0	--	8.7	--	--	700	200
26...	1550	0.90	2280	8.4	--	28.0	--	8.5	--	--	--	--
AUG												
02...	1220	3.0	1650	--	--	22.5	--	--	--	--	--	--
09...	1050	3.4	1660	--	--	19.5	--	--	--	--	--	--
16...	1125	3.4	1650	--	--	20.5	--	--	--	--	--	--
26...	1000	2.9	1640	--	--	17.5	--	--	--	--	--	--
31...	1605	2.7	1500	--	--	22.5	--	--	--	--	--	--
SEP												
06...	1240	3.3	1610	--	--	19.5	--	--	--	--	--	--
23...	0900	3.2	1590	--	--	10.0	--	--	--	--	--	--
29...	1115	3.4	1560	--	--	12.0	--	--	--	--	--	--

SAN JUAN RIVER BASIN

09367536 OJO AMARILLO CANYON AT NIIP NEAR FRUITLAND, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

[illegible]

SAN JUAN RIVER BASIN

09367536 OJO AMARILLO CANYON AT NIIP NEAR FRUITLAND, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM, DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY, DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
OCT 1993												
21...	--	--	--	--	--	--	--	15	--	--	--	--
28...	--	--	--	--	--	--	--	28	--	--	--	--
NOV												
05...	--	--	--	--	--	--	--	26	--	--	--	--
10...	--	--	--	--	--	--	--	32	--	--	--	--
17...	--	--	--	--	--	--	--	27	--	--	--	--
24...	--	--	--	--	--	--	--	29	--	--	--	--
DEC												
02...	--	--	--	--	--	--	--	32	--	--	--	--
09...	--	--	--	--	--	--	--	33	--	--	--	--
15...	--	--	--	--	--	--	--	34	--	--	--	--
23...	--	--	--	--	--	--	--	34	--	--	--	--
30...	--	--	--	--	--	--	--	34	--	--	--	--
JAN 1994												
06...	--	--	--	--	--	--	--	32	--	--	--	--
12...	--	--	--	--	--	--	--	37	--	--	--	--
21...	--	--	--	--	--	--	--	37	--	--	--	--
27...	--	--	--	--	--	--	--	33	--	--	--	--
FEB												
03...	--	--	--	--	--	--	--	31	--	--	--	--
11...	--	--	--	--	--	--	--	32	--	--	--	--
17...	--	--	--	--	--	--	--	30	--	--	--	--
22...	--	--	--	--	--	--	--	30	--	--	--	--
28...	--	--	--	--	--	--	--	28	--	--	--	--
MAR												
08...	310	<1.0	<1	3	<1	<0.1	5	27	5	50	-81.3	-10.06
16...	--	--	--	--	--	--	--	28	--	--	--	--
24...	--	--	--	--	--	--	--	27	--	--	--	--
29...	--	--	--	--	--	--	--	28	--	--	--	--
APR												
06...	--	--	--	--	--	--	--	26	--	--	--	--
15...	--	--	--	--	--	--	--	30	--	--	--	--
19...	--	--	--	--	--	--	--	31	--	--	--	--
28...	--	--	--	--	--	--	--	23	--	--	--	--
MAY												
05...	--	--	--	--	--	--	--	23	--	--	--	--
11...	--	--	--	--	--	--	--	23	--	--	--	--
19...	--	--	--	--	--	--	--	23	--	--	--	--
23...	--	--	--	--	--	--	--	23	--	--	--	--
JUN												
01...	--	--	--	--	--	--	--	22	--	--	--	--
09...	--	--	--	--	--	--	--	17	--	--	--	--
15...	--	--	--	--	--	--	--	23	--	--	--	--
23...	--	--	--	--	--	--	--	21	--	--	--	--
JUL												
05...	--	--	--	--	--	--	--	20	--	--	--	--
15...	--	--	--	--	--	--	--	22	--	--	--	--
21...	300	<1.0	<1	2	<1	<0.1	6	21	4	20	-84.9	-10.68
26...	--	--	--	--	--	--	--	18	--	--	--	--
AUG												
02...	--	--	--	--	--	--	--	10	--	--	--	--
09...	--	--	--	--	--	--	--	8	--	--	--	--
16...	--	--	--	--	--	--	--	9	--	--	--	--
26...	--	--	--	--	--	--	--	8	--	--	--	--
31...	--	--	--	--	--	--	--	9	--	--	--	--
SEP												
06...	--	--	--	--	--	--	--	11	--	--	--	--
23...	--	--	--	--	--	--	--	10	--	--	--	--
29...	--	--	--	--	--	--	--	10	--	--	--	--

SAN JUAN RIVER BASIN

09367540 SAN JUAN RIVER NEAR FRUITLAND, NM

WATER-QUALITY RECORDS

LOCATION.--Lat 36°44'25", long 108°24'09", in NW S SE S sec. 10, T.29 N., R.15 W., San Juan County, Hydrologic Unit 14080105, on right bank 300 ft downstream from Four Corners Powerplant highway bridge, 0.4 mi west of Fruitland, 10 mi downstream from La Plata River, 14.0 mi upstream from Chaco River, and at mile 239.

DRAINAGE AREA.--8,010 mi², approximately.

PERIOD OF RECORD.--Water years 1978 to current year.

REMARKS.--Discharges estimated from discharge records at 09365000 San Juan River at Farmington, which is approximately 11 miles upstream and station 09367500 La Plata River near Farmington which is approximately 8.7 miles upstream.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
OCT 1993										
05...	1415	E850	569	8.4	21.0	17.0	2.1	635	12.5	156
NOV										
30...	1600	E1160	568	8.6	12.5	6.0	16	630	10.4	101
FEB 1994										
02...	1545	E825	557	8.5	4.0	0.0	7.7	633	14.8	122
MAY										
04...	1430	E2580	390	8.0	26.5	15.5	220	632	8.6	104
JUL										
27...	1415	E900	464	8.2	33.5	22.5	200	632	6.7	94
AUG										
30...	1620	E630	514	8.8	26.5	23.0	19	634	9.8	138

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD CO3 (00452)	ALKA- LITY WAT DIS TOT IT FIELD CACO3 (39086)
OCT 1993										
05...	200	95	59	12	37	1	2.5	95	14	102
NOV										
30...	210	110	63	13	36	1	2.3	111	8	105
FEB 1994										
02...	210	85	64	11	37	1	2.3	126	10	119
MAY										
04...	140	40	43	7.8	24	0.9	2.1	121	0	99
JUL										
27...	160	43	49	8.4	35	1	2.5	139	0	114
AUG										
30...	180	65	55	9.6	40	1	2.4	112	12	112

DATE	ALKA- LITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN 0.62 MM (70331)	SAM- PLING METHOD, CODES (82398)
OCT 1993										
05...	114	140	11	0.30	6.1	346	329	138	94	--
NOV										
30...	128	150	12	0.20	9.3	348	348	--	--	--
FEB 1994										
02...	123	140	12	0.30	9.9	363	348	--	--	10
MAY										
04...	107	97	7.9	0.20	9.9	242	251	--	--	10
JUL										
27...	111	110	8.8	0.30	11	293	293	--	--	10
AUG										
30...	114	130	10	0.30	9.3	332	324	--	--	10

SAN JUAN RIVER BASIN

09367950 CHACO RIVER NEAR WATERFLOW, NM

LOCATION.--Lat 36°43'28", long 108°35'27", in SW¼SW¼ sec.13, T.29 N., R.17 W., San Juan County, Hydrologic Unit 14080106, on downstream end of right bridge pier, 4.2 mi upstream from Dead Mans Wash, 5.3 mi downstream from the hogback, 0.0 mi southwest of waterfall, 1.2 mi southeast of Shiprock, and at mile 4.3.

DRAINAGE AREA.--4,830 mi².

PERIOD OF RECORD.--Water years 1959-69 (annual maximum only), November 1975 to September 1994 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 4,980 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to 1975 at site 1.8 mi upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Base flow is mostly wastewater from Four Corners Power Plant. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.00	19	20	19	e21	15	18	20	e23	e3	3.9	.00
2	e.00	20	20	19	e21	14	18	19	21	e1	3.1	13
3	e.00	20	21	20	24	13	19	18	21	e.5	2.4	495
4	e.00	21	21	20	28	13	19	19	20	e.00	2.0	1450
5	e.00	21	21	20	35	14	19	18	20	e.00	1.7	679
6	.31	21	21	20	38	14	19	18	21	e.00	1.6	e30
7	20	20	22	20	38	14	19	18	21	e.00	e1	e5.0
8	50	20	22	19	39	14	20	20	22	e.00	e1	e1
9	13	20	21	20	39	14	20	22	23	e.00	e.5	e.00
10	2.3	20	21	20	40	14	21	20	22	e.00	e.00	e.00
11	1.3	21	21	19	41	14	21	20	23	e.00	e.00	e.00
12	.81	21	21	19	41	14	21	33	23	.00	e.00	e250
13	.55	29	21	e19	40	14	21	37	24	.00	e.00	e40
14	.90	37	21	e19	13	13	21	20	24	.00	e.00	e10
15	.57	27	20	e19	8.3	12	20	15	24	.00	e.00	e170
16	.50	37	20	e19	7.2	13	20	13	25	.00	34	e70
17	.54	71	20	e18	6.5	13	20	13	25	.00	151	e10
18	.70	57	20	e18	5.9	12	20	12	25	.00	23	e10
19	.55	37	20	e18	5.8	12	19	12	23	283	20	e5.0
20	1.5	33	20	e18	6.0	12	20	12	15	21	84	e2
21	5.3	26	19	e17	5.7	12	20	12	11	14	e15	e1
22	7.4	26	19	e17	4.8	15	23	12	114	12	e4	e.00
23	8.9	25	19	e17	4.0	19	22	12	35	9.2	e2	e.00
24	7.3	23	19	e16	18	19	20	12	25	7.1	e1	e.00
25	8.6	21	18	e16	17	19	19	376	20	26	e.00	e.00
26	13	20	18	e16	16	19	19	509	16	18	e.00	e.00
27	22	20	17	e25	16	18	19	e30	13	14	e.00	e.00
28	22	19	17	e22	16	18	19	e28	e10	11	e.00	e.00
29	17	19	17	e21	---	18	20	e26	e8.0	8.2	e.00	e.00
30	17	20	18	e21	---	18	19	e25	e5.0	6.3	e.00	e5
31	18	---	19	e21	---	18	---	e24	---	5.0	e.00	---
TOTAL	240.03	791	614	592	595.2	461	595	1445	702.0	439.30	351.20	3246.00
MEAN	7.74	26.4	19.8	19.1	21.3	14.9	19.8	46.6	23.4	14.2	11.3	108
MAX	50	71	22	25	41	19	23	509	114	283	151	1450
MIN	.00	19	17	16	4.0	12	18	12	5.0	.00	.00	.00
AC-FT	476	1570	1220	1170	1180	914	1180	2870	1390	871	697	6440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1994, BY WATER YEAR (WY)

	MEAN	38.6	58.5	21.4	34.6	69.8	29.8	26.7	32.5	21.4	55.3	108	62.2
MAX	117	430	107	217	277	177	161	110	136	487	434	272	
(WY)	1987	1987	1992	1979	1979	1987	1985	1990	1988	1986	1988	1988	
MIN	.076	.35	.14	.16	6.35	4.88	.13	2.26	.83	.000	7.09	6.00	
(WY)	1989	1985	1986	1986	1990	1991	1991	1992	1989	1987	1981	1989	

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1976 - 1994
ANNUAL TOTAL	19535.42	10071.73	
ANNUAL MEAN	53.5	27.6	47.9
HIGHEST ANNUAL MEAN			97.5
LOWEST ANNUAL MEAN			20.8
HIGHEST DAILY MEAN	3500	1450	3870
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		2150	7300
INSTANTANEOUS PEAK STAGE		7.22	a7.88
ANNUAL RUNOFF (AC-FT)	38750	19980	34730
10 PERCENT EXCEEDS	28	28	54
50 PERCENT EXCEEDS	9.5	18	16
90 PERCENT EXCEEDS	.00	.00	.21

e Estimated

a-Site and datum then in use.

SAN JUAN RIVER BASIN

09368000 SAN JUAN RIVER AT SHIPROCK, NM

LOCATION.--Lat 36°47'32", long 108°43'54", in NW¼ sec.27, T.30 N., R.18 W., San Juan County, Hydrologic Unit 14080105, on left bank 3 mi west of Shiprock, 6 mi downstream from Chaco River, and at mile 215.0.

DRAINAGE AREA.--12,900 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January to October 1911, February 1927 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1931, 1934-38, 1951. WSP 1313: 1911, 1933. WDR NM-78-1: 1977.

GAGE.--Water-stage recorder. Datum of gage is 4,848.68 ft above National Geodetic Vertical Datum of 1929 (river-profile survey). Prior to Apr. 6, 1922, nonrecording gage and Apr. 7, 1922, to Oct. 25, 1933, water-stage recorder, at site 3 mi upstream at different datum. Oct. 26, 1933, to Sept. 30, 1936, water-stage recorder at present site at datum 3.31 ft higher and Oct. 1, 1936, to Sept. 30, 1952, at datum 1.77 ft higher. Supplementary water-stage recorders at nearby sites, same datum, used at times.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Since 1962 flow partly regulated by Navajo Reservoir (station 09355100). Diversions for irrigation of about 118,000 acres upstream from station. Ungaged canals bypass station on both right and left banks, though some of bypass flow is returned to river downstream from gage. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood occurred Oct. 6, 1911, and reached a stage of 22 ft, site and datum then in use.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	642	951	1180	1140	816	1310	578	1270	8170	3990	e340	e350
2	614	934	1170	1170	e840	1250	561	1230	8240	3860	e310	e450
3	577	908	1160	1220	e860	1160	571	1570	8460	3820	e280	e680
4	589	1070	1130	1180	920	1160	568	2170	8630	3760	e280	e1700
5	593	1180	1110	1160	994	1120	596	2330	9160	3730	e300	e1500
6	648	1180	1130	1130	970	1070	590	2870	8750	3560	e340	e1300
7	859	1140	1130	1150	936	1020	556	3660	8330	3330	e400	e1000
8	1210	1160	1140	1120	921	969	514	3830	7940	2850	e500	e800
9	1140	1240	1140	1130	949	965	604	3810	7560	2530	e520	e720
10	1120	1220	1140	1140	895	856	681	3880	7400	2410	e500	e680
11	1090	1250	1170	1130	870	804	617	3840	7280	2410	e440	e640
12	1120	1610	1190	1130	873	797	561	4120	7060	2220	e420	e620
13	1220	1390	1170	1130	856	781	553	4680	6540	2390	e580	e800
14	1250	1460	1160	1160	827	769	524	5010	6470	2220	e470	e1300
15	1240	1420	1190	1110	782	756	503	5080	6510	1920	e580	e1900
16	1130	1350	1190	1100	736	754	521	5520	6320	1790	e1200	e1600
17	1000	1340	1160	1100	751	741	525	5640	6070	e1600	e1000	e1200
18	1160	1300	1130	1090	766	757	547	6000	5970	e1450	e800	e1100
19	1070	1270	1160	1080	934	800	774	5960	5910	e1400	e600	e1020
20	1050	1240	1150	1080	883	832	968	5860	5910	e1400	e640	e1000
21	1010	1240	1120	1090	799	867	1110	5800	5550	e1300	e560	e960
22	1010	1230	1120	1100	769	878	1120	5490	5700	e1200	e490	e960
23	1010	1230	1110	1170	732	806	1350	5610	5970	e1100	e480	e1000
24	971	1270	1120	1190	766	820	1510	6020	5400	e1000	e450	e900
25	945	1190	1090	1000	803	817	1580	6770	5060	e930	e420	e820
26	952	1150	e1110	819	750	842	1640	7270	4820	e910	e400	e760
27	999	1120	e1120	854	842	829	1570	5810	4640	e820	e390	e720
28	1030	1240	e1140	867	1090	814	1460	5810	4490	e720	e370	e700
29	933	1220	e1150	837	---	811	1410	6330	4320	e630	e360	e720
30	946	1180	e1140	823	---	720	1390	7050	4270	e540	e360	e800
31	966	---	e1140	771	---	592	---	7850	---	e460	e350	---
TOTAL	30094	36683	35460	33171	23930	27467	26052	148140	196900	62250	15130	28700
MEAN	971	1223	1144	1070	855	886	868	4779	6563	2008	488	957
MAX	1250	1610	1190	1220	1090	1310	1640	7850	9160	3990	1200	1900
MIN	577	908	1090	771	732	592	503	1230	4270	460	280	350
AC-FT	59690	72760	70330	65790	47470	54480	51670	293800	390600	123500	30010	56930

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1994, BY WATER YEAR (WY)

	1276	1110	1076	1091	1243	1646	3117	4950	5349	2229	1312	1195
MEAN	1276	1110	1076	1091	1243	1646	3117	4950	5349	2229	1312	1195
MAX	8370	3997	3420	3169	3314	5099	9275	19790	15540	8869	5171	3329
(WY)	1942	1987	1966	1966	1987	1993	1937	1941	1941	1957	1957	1938
MIN	247	365	386	390	395	359	274	268	630	185	126	44.4
(WY)	1957	1935	1957	1963	1964	1964	1977	1977	1977	1963	1939	1956

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1935 - 1994

ANNUAL TOTAL	1035083	663977	2133
ANNUAL MEAN	2836	1819	5324
HIGHEST ANNUAL MEAN			1941
LOWEST ANNUAL MEAN			1963
HIGHEST DAILY MEAN	9830	May 29	33300
LOWEST DAILY MEAN	465	Aug 6	8.0
ANNUAL SEVEN-DAY MINIMUM	486	Aug 5	13
INSTANTANEOUS PEAK FLOW			80000
INSTANTANEOUS PEAK STAGE		8.05	8.05
INSTANTANEOUS LOW FLOW			a8.0
ANNUAL RUNOFF (AC-FT)	2053000	1317000	1546000
10 PERCENT EXCEEDS	6380	5570	5080
50 PERCENT EXCEEDS	1240	1120	1160
90 PERCENT EXCEEDS	691	561	450

e Estimated

a-Also occurred Aug. 26, 1939.

SAN JUAN RIVER BASIN

09368000 SAN JUAN RIVER AT SHIPROCK, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1941-45, 1951 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: February 1941 to September 1945, July 1957 to September 1986, October 1989 to current year.

WATER TEMPERATURE: December 1950 to September 1986, October 1989 to current year.

INSTRUMENTATION.--Water-temperature and specific-conductance monitor.

REMARKS.--Water-temperature and specific-conductance monitor inoperable due to vandalism.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: (water years, 1957-86, 1990-91) Maximum, 4,360 microsiemens July 31, 1959; minimum, 138 microsiemens, Nov. 1, 1981.

WATER TEMPERATURE: Maximum 34.0 °C, July 20, 1968; minimum, 0.0 °C on many days during winter months each year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREP-TOCOCCHI, FECAL, KP AGAR (COLS. PER 100 ML) (31673)
NOV 1993												
03...	1000	912	685	8.6	5.0	5.5	5.4	643	11.8	111	40	K5
FEB 1994												
01...	1530	827	657	8.6	2.0	0.0	20	644	13.1	106	K2	38
JUN												
28...	1645	4520	303	8.5	36.5	17.0	5.1	640	8.9	110	57	43
AUG												
31...	1240	353	644	8.6	22.5	21.5	28	639	8.5	116	310	470

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD, AS CAC03 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV 1993												
03...	250	120	75	15	46	1	2.4	150	7	135	139	190
FEB 1994												
01...	230	98	69	14	46	1	2.4	123	19	133	124	180
JUN												
28...	110	30	34	6.2	16	0.7	1.6	98	0	80	80	60
AUG												
31...	220	89	66	13	48	1	2.6	139	10	130	132	170

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
NOV 1993												
03...	16	0.40	4.9	--	432	--	<0.010	<0.050	0.010	0.20	0.020	<0.010
FEB 1994												
01...	14	0.30	7.1	436	414	0.170	0.030	0.200	0.030	0.40	0.060	<0.010
JUN												
28...	5.5	0.20	8.6	195	182	0.170	0.010	0.180	0.050	0.50	0.040	0.020
AUG												
31...	15	0.30	7.7	418	402	--	<0.010	0.064	0.030	0.30	0.020	0.010

SAN JUAN RIVER BASIN

09368000 SAN JUAN RIVER AT SHIPROCK, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BORON, DIS- SOLVED (UG/L AS B) (01020)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)
NOV 1993												
03...	<0.010	10	63	--	<3	16	30	24	<10	<1	<1	<1.0
FEB 1994												
01...	<0.010	20	60	70	<3	14	29	65	<10	<1	<1	<1.0
JUN												
28...	<0.010	40	51	30	<3	25	16	5	<10	<1	<1	<1.0
AUG												
31...	<0.010	20	69	--	<3	8	26	17	<10	<1	<1	<1.0

DATE	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	NITRO- GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO- GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOS- PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD) (01028)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CR) (01029)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE) (01170)
NOV 1993												
03...	940	<6	9.0	8.6	310	510	4	<1	6	10	10	8900
FEB 1994												
01...	830	<6	--	--	--	--	--	--	--	--	--	--
JUN												
28...	340	<6	--	--	--	--	--	--	--	--	--	--
AUG												
31...	870	<6	--	--	--	--	--	--	--	--	--	--

DATE	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB) (01052)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN) (01093)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 1993 03...	10	330	0.01	60	0.06	0.010	1.7	<1.0	31	76	82
FEB 1994 01...	--	--	--	--	--	--	--	--	49	109	73
JUN 28...	--	--	--	--	0.06	0.020	0.72	<1.0	--	--	--
AUG 31...	--	--	--	--	--	--	--	--	67	64	95

DATE	TIME	CHLOR- PYRIFOS TOTAL RECOVER (UG/L) (38932)	DI- SYSTON TOTAL (UG/L) (39011)	PHORATE TOTAL (UG/L) (39023)	PER- THANE TOTAL (UG/L) (39034)	DEF TOTAL (UG/L) (39040)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L) (39250)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)
NOV 1993											
03...	1000	--	--	--	--	--	--	--	--	--	--
FEB 1994											
01...	1530	--	--	--	--	--	--	--	--	--	--
JUN											
28...	1645	--	--	--	--	--	--	--	--	--	--
AUG											
31...	1240	<0.01	<0.01	<0.01	<0.1	<0.01	<0.10	<0.010	<0.010	<0.1	<0.010

SAN JUAN RIVER BASIN

09368000 SAN JUAN RIVER AT SHIPROCK, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDO- SULFAN, TOTAL (UG/L) (39388)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	TOX- APHENE, TOTAL (UG/L) (39400)	HEPTA- CHLOR, TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	METH- OXY- CHLOR, TOTAL (UG/L) (39480)	PCB, TOTAL (UG/L) (39516)
NOV 1993											
03...	--	--	--	--	--	--	--	--	--	--	--
FEB 1994											
01...	--	--	--	--	--	--	--	--	--	--	--
JUN											
28...	--	--	--	--	--	--	--	--	--	--	--
AUG											
31...	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<1	<0.010	<0.010	<0.01	<0.1

DATE	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	MIREX, TOTAL (UG/L) (39755)	SILVEX, TOTAL (UG/L) (39760)	TOTAL TRI- THION (UG/L) (39786)	2,4-DP TOTAL (UG/L) (82183)	FONOFOS (DY- FONATE) WATER WHOLE TOT REC (UG/L) (82614)
NOV 1993											
03...	--	--	--	--	--	--	--	--	--	--	--
FEB 1994											
01...	--	--	--	--	--	--	--	--	--	--	--
JUN											
28...	--	--	--	--	<0.01	<0.01	--	<0.01	--	<0.01	--
AUG											
31...	<0.01	<0.01	<0.01	<0.01	--	--	<0.01	--	<0.01	--	<0.01

CROSS SECTION ANALYSES

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	DEPTH AT SAMPLE LOC- ATION, TOTAL (FEET) (81903)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
AUG 1994									
31...	1210	35.0	0.97	20	648	8.5	22.0	8.9	84
31...	1212	50.0	1.77	38	649	8.5	22.0	8.7	93
31...	1214	65.0	2.31	69	649	8.5	22.0	8.6	89
31...	1216	80.0	2.51	95	649	8.5	22.0	8.4	88
31...	1218	95.0	2.20	79	649	8.5	22.0	8.2	90
31...	1220	110	1.72	48	648	8.5	22.0	8.4	85
31...	1222	125	0.78	12	649	8.6	22.0	8.6	84

SAN JUAN RIVER BASIN

09371010 SAN JUAN RIVER AT FOUR CORNERS, CO

LOCATION.--Lat 37°00'20", long 109°02'00", SE¼NE¼ sec.21, T.32 N., R.20 W., Montezuma County, Hydrologic Unit 14080201, on left bank 1,300 ft upstream from bridge on U.S. Highway 160, 0.1 mi north of New Mexico-Colorado State line, 1.0 mi east of Four Corners Monument, 3.0 mi downstream from Mancos River, and at mile 187.2.

DRAINAGE AREA.--14,600 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,900 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor. Flow partly regulated by Navajo Reservoir (09355100).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	678	913	1190	e1110	836	1230	656	1390	8510	4930	366	337
2	690	900	1180	e1120	e850	1280	637	1300	8500	4740	335	499
3	671	883	1160	e1120	e870	1240	640	1410	8680	4640	289	840
4	658	902	1140	1130	908	1240	650	2220	8730	4560	294	1890
5	673	1100	1120	1140	956	1220	657	2620	9090	4490	316	1640
6	681	1090	1120	1100	953	1140	697	3070	9010	4330	330	1370
7	764	1060	1130	1110	923	1100	651	4050	8590	4030	432	993
8	1050	1040	1130	1090	912	1040	610	4660	8180	3540	547	828
9	1050	1120	1130	1100	921	1030	617	4650	8010	3010	566	791
10	1050	1120	1120	1110	886	960	760	4730	7920	2780	523	736
11	1020	1140	1130	1110	860	881	782	4570	7860	2780	459	683
12	1000	1510	1160	1100	850	854	743	4820	7790	2200	461	659
13	1120	1510	1150	1100	842	851	752	5260	7330	1970	665	986
14	1070	1450	1140	1120	822	830	731	5820	7240	2090	537	1460
15	1120	1460	1150	1090	795	829	688	5920	7230	1630	706	2410
16	1080	1380	1160	1080	755	808	700	6350	7090	1470	1330	2350
17	922	1340	1130	1080	757	805	718	6410	6890	1410	1060	1530
18	1070	1320	1100	1070	763	809	721	6680	6760	1430	858	1130
19	1040	1260	1110	1050	847	833	806	6670	6730	1430	693	1160
20	973	1250	1110	1060	964	863	1070	6550	6770	1400	725	1110
21	952	1250	1100	1060	854	971	1210	6570	6560	1160	588	1030
22	930	1260	1110	1060	805	977	1240	6310	6580	1130	538	1010
23	943	1260	1130	1110	768	890	1370	6300	6820	1060	523	1070
24	920	1280	e1110	1140	757	868	1670	6660	6430	951	494	952
25	902	1250	e1100	1120	810	848	1750	6900	6000	895	455	863
26	881	1190	e1110	870	780	873	1810	7260	5810	929	e430	813
27	911	1160	e1120	894	807	867	1750	6450	5590	844	e420	754
28	972	1240	e1130	913	994	852	1540	6260	5330	677	e410	733
29	910	1230	e1120	879	---	855	1450	6570	5200	585	e400	752
30	885	1190	e1110	866	---	835	1440	6920	5140	534	399	954
31	915	---	e1100	843	---	697	---	7560	---	410	393	---
TOTAL	28501	36058	35000	32745	23845	29376	29516	162910	216370	68035	16542	32333
MEAN	919	1202	1129	1056	852	948	984	5255	7212	2195	534	1078
MAX	1120	1510	1190	1140	994	1280	1810	7560	9090	4930	1330	2410
MIN	658	883	1100	843	755	697	610	1300	5140	410	289	337
AC-FT	56530	71520	69420	64950	47300	58270	58540	323100	429200	134900	32810	64130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1994, BY WATER YEAR (WY)

	MEAN	1294	1455	1513	1629	1748	2235	3276	4801	5217	2470	1400	1361
MAX	2959	3732	3466	3300	3365	5454	7893	10220	10370	6846	3016	3243	
(WY)	1987	1987	1987	1987	1987	1993	1979	1979	1979	1979	1986	1986	
MIN	634	838	799	760	739	707	613	1030	1236	743	259	467	
(WY)	1978	1980	1990	1990	1990	1990	1990	1981	1989	1989	1978	1989	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1978 - 1994

ANNUAL TOTAL	1134705	711231	
ANNUAL MEAN	3109	1949	2366
HIGHEST ANNUAL MEAN			4180
LOWEST ANNUAL MEAN			991
HIGHEST DAILY MEAN	10300	9090	16400
LOWEST DAILY MEAN	548	289	110
ANNUAL SEVEN-DAY MINIMUM	579	334	126
INSTANTANEOUS PEAK FLOW		9480	16900
INSTANTANEOUS PEAK STAGE		4.80	a6.25
INSTANTANEOUS LOW FLOW		282	110
ANNUAL RUNOFF (AC-FT)	2251000	1411000	1714000
10 PERCENT EXCEEDS	7140	6370	5640
50 PERCENT EXCEEDS	1360	1100	1550
90 PERCENT EXCEEDS	851	657	722

e Estimated

a-Maximum gage height, 14.43 ft, Dec. 12, 1978 (backwater from ice).

SAN JUAN RIVER BASIN

09371010 SAN JUAN RIVER AT FOUR CORNERS, CO -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--water years 1978-81, 1983 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT 1993									
05...	1030	684	664	8.7	18.0	16.0	6.2	650	8.6
NOV									
30...	1045	1180	639	8.7	2.0	2.5	17	640	11.7
FEB 1994									
02...	1130	856	710	8.3	-1.5	0.0	7.8	648	13.0
MAY									
03...	1610	1320	573	8.0	20.0	16.5	35	641	8.6
JUL									
27...	1015	860	540	8.2	32.0	22.5	340	646	6.8
AUG									
30...	1225	394	737	8.5	27.5	23.5	150	645	8.3

DATE	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)
OCT 1993									
05...	103	240	120	67	17	48	1	2.5	128
NOV									
30...	102	240	120	68	17	44	1	2.4	150
FEB 1994									
02...	105	250	120	73	17	50	1	2.5	149
MAY									
03...	105	210	96	62	14	37	1	2.4	142
JUL									
27...	93	170	51	51	10	43	1	2.6	143
AUG									
30...	116	260	100	75	17	58	2	3.2	168

DATE	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)
OCT 1993									
05...	5	113	118	190	14	0.30	5.3	420	412
NOV									
30...	1	150	132	190	13	0.30	8.5	426	418
FEB 1994									
02...	6	132	132	210	15	0.30	7.5	473	455
MAY									
03...	0	116	114	160	9.8	0.30	7.9	374	363
JUL									
27...	0	117	115	140	10	0.30	11	349	338
AUG									
30...	10	154	130	220	17	0.30	8.4	490	492

LITTLE COLORADO RIVER BASIN

09386900 RIO NUTRIA NEAR RAMAH, NM

LOCATION.--Lat 35°16'57", long 108°33'10", in NW¼SW¼ sec.8, T.12 N., R.16 W., McKinley County, Hydrologic Unit 15020004, on Zuni Indian Reservation, on left bank at mouth of Nutria Canyon, 0.9 mi upstream from Nutria diversion dam, 1.3 mi northeast of Upper Nutria, and 10.4 mi northwest of Ramah.

DRAINAGE AREA.--71.4 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1969 to current year.

REVISED RECORDS.--WDR NM-78-1: 1977.

GAGE.--Water-stage recorder and concrete control. Concrete control raised 1.0 ft June 6, 1975. Control raised 2.35 ft June 28, 1984. Elevation of gage is 6,860 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Water-discharge records poor. Several observations of water temperature were made during the year. No flow Oct. 1-20, 1969.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.01	.10	.11	.08	1.5	.58	.88	.19	.06	.07	.05
2	.00	.02	.10	.12	.07	5.3	.50	.62	.19	.06	.07	.04
3	.00	.01	.09	.11	.08	16	.42	.48	.16	.06	.06	1.4
4	.00	.01	.09	.11	.09	20	.40	.36	.15	.05	.06	1.0
5	.00	.01	.10	.15	.09	156	.49	.30	.14	.04	.06	.12
6	.01	.02	.11	.17	.09	121	.45	.25	.13	.03	.05	.07
7	.12	.01	.11	.12	.09	48	.42	.21	.13	.05	.06	.08
8	.08	.01	.11	.11	.11	81	.37	.20	.14	.05	.06	.06
9	.04	.01	.13	.10	.10	57	1.2	.20	.12	.04	.06	.05
10	.05	.01	.14	.10	.10	17	3.8	.20	.12	.03	.06	.05
11	.02	.03	.15	.09	.10	9.9	3.0	.23	.12	.03	.07	.10
12	.04	.08	.21	.07	.10	12	2.6	.27	.11	.02	.07	.06
13	.04	.06	.15	.08	.10	12	1.8	.39	.11	.02	.06	.07
14	.02	.08	.14	.08	.10	11	1.2	.31	.11	.01	.06	.06
15	.02	.06	.17	.11	.11	8.5	.75	.29	.10	.01	.08	.05
16	.02	.04	.16	.11	.11	7.9	.51	.26	.10	.00	.07	.05
17	.09	.02	.15	.09	.16	9.5	.40	.23	.10	.00	.06	.04
18	.06	.02	.17	.08	.19	9.3	.35	.21	.10	.00	.04	e.04
19	.06	1.0	.18	.06	.15	7.7	.31	.19	.10	.00	.04	e.04
20	.04	.13	.18	.08	.13	35	.28	.19	.12	.00	.05	.05
21	.02	.14	.14	.09	.13	29	.25	.21	.21	.00	.09	e.04
22	.02	.15	.11	.09	.17	10	.25	.22	.81	.00	.06	e.03
23	.01	8.6	.10	.09	.16	4.8	.22	.22	.32	.01	.05	.03
24	.01	9.0	.11	.10	.15	2.5	.22	.21	.17	.02	e.04	.04
25	.01	.65	.08	.09	.16	1.6	.34	.31	.14	.03	e.04	.04
26	.02	.16	.10	.10	.40	1.3	.45	.31	.12	.05	e.04	.03
27	.02	.09	.14	.10	3.2	1.6	.65	.28	.10	.06	e.03	.03
28	.02	.09	.15	.10	2.9	1.1	1.6	.21	.09	.08	e.03	.02
29	.01	.09	.14	.09	---	.88	.94	.19	.08	.08	e.03	.02
30	.01	.09	.13	.10	---	.78	.91	.19	.07	.08	e.03	.02
31	.01	---	.13	.09	---	.64	---	.19	---	.08	e.04	---
TOTAL	0.88	20.70	4.07	3.09	9.42	699.80	25.66	8.81	4.65	1.05	1.69	3.78
MEAN	.028	.69	.13	.10	.34	22.6	.86	.28	.15	.034	.055	.13
MAX	.12	9.0	.21	.17	3.2	156	3.8	.88	.81	.08	.09	1.4
MIN	.00	.01	.08	.06	.07	.64	.22	.19	.07	.00	.03	.02
AC-FT	1.7	41	8.1	6.1	19	1390	51	17	9.2	2.1	3.4	7.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1994, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1970	.41	2.43	1973	.028	1974
1971	.50	4.05	1987	.023	1978
1972	.90	3.76	1984	.019	1978
1973	1.32	18.9	1993	.058	1976
1974	4.58	33.3	1993	.084	1971
1975	30.5	135	1993	.11	1972
1976	36.6	187	1973	1.12	1976
1977	3.83	33.8	1973	.087	1976
1978	.35	1.33	1973	.031	1984
1979	.61	3.52	1982	.015	1993
1980	1.17	7.15	1992	.038	1971
1981	.39	1.90	1984	.033	1983

SUMMARY STATISTICS

	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1970 - 1994
ANNUAL TOTAL	6649.33	783.60	
ANNUAL MEAN	18.2	2.15	6.75
HIGHEST ANNUAL MEAN			22.4
LOWEST ANNUAL MEAN			.13
HIGHEST DAILY MEAN	284	156	460
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		539	b782
INSTANTANEOUS PEAK STAGE		3.89	a5.58
ANNUAL RUNOFF (AC-FT)	13190	1550	4890
10 PERCENT EXCEEDS	57	1.3	9.1
50 PERCENT EXCEEDS	.21	.10	.17
90 PERCENT EXCEEDS	.01	.02	.05

e Estimated

a-Datum then in use.

b-From rating curve extended above 470 ft³/s; maximum gage height, 7.90 ft, Mar. 12, 1985.

LITTLE COLORADO RIVER BASIN
09386900 RIO NUTRIA NEAR RAMAH, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978, 1980, 1987-93, October to August 1994. (Discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 1993								
14...	1115	0.05	E371	20.0	10.0	133	0.02	93
MAR 1994								
02...	1100	1.8	E275	11.0	8.0	20	0.10	81
JUL								
26...	1400	0.05	E405	29.0	17.0	34	0.00	58
AUG								
23...	1300	0.05	E368	--	26.5	42	0.01	41

LITTLE COLORADO RIVER BASIN

09386950 ZUNI RIVER ABOVE BLACK ROCK RESERVOIR, NM

LOCATION.--Lat 35°06'03", Long 108°45'03", in NE¼ sec.17, T.10 N., R.18 W., McKinley County, Hydrologic Unit 15020004, on Zuni Indian Reservation, on left bank downstream from highway bridge on State Highway 36, 0.8 mi upstream from flow line of Black Rock Reservoir, 2.3 mi northeast of Black Rock, and 5.9 mi northeast of Zuni Pueblo.

DRAINAGE AREA.--848 mi², of which 13 mi² is non-contributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1969 to current year. Prior to October 1974 published as "above Zuni Reservoir."

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 6,480 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Several observations of water temperature were made during the year. No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	e.92	e1.2	e.90	2.7	1.6	.92	.00	.00	.00	.00
2	.00	.00	e.84	e1.2	e.92	2.4	1.6	.80	.00	.00	.00	.00
3	.00	.00	e.78	e1.4	e.96	2.2	1.5	.65	.00	.00	.00	1.5
4	.00	.00	e.74	e1.9	e1.0	2.2	1.6	.56	.00	.00	.00	12
5	.00	.00	e.78	e2.2	e1.1	2.1	1.7	.09	.00	.00	.00	7.2
6	.00	.00	e.82	e2.3	e1.2	2.1	1.7	.00	.00	.00	.00	1.6
7	.00	.00	e.86	e2.1	e1.4	2.2	1.7	.00	.00	.00	.00	27
8	.00	.00	e.84	e1.7	e1.6	2.7	1.7	.00	.00	.00	.00	9.4
9	.00	.00	e.98	e1.4	e1.8	2.5	3.5	.00	.00	.00	.00	2.7
10	.00	.00	e.98	e1.3	e2.1	2.2	4.6	.00	.00	.00	.00	1.2
11	.00	.00	e.92	e1.3	e2.0	2.0	3.5	.01	.00	.00	.00	1.4
12	.00	.20	e1.0	e1.2	e1.9	2.4	2.9	.61	.00	.00	.00	.56
13	.00	.70	e.86	e1.2	e1.8	2.7	2.3	.50	.00	.00	.00	.05
14	.00	.85	e.80	e1.2	e1.9	2.4	1.9	.65	.00	.00	.00	.54
15	.00	.85	e.84	e1.1	e2.1	2.1	1.5	.17	.00	.00	.00	.01
16	.00	.90	e.86	e1.1	e2.3	1.9	1.2	.00	.00	.00	.00	.00
17	.00	.78	e.84	e1.0	e2.4	1.9	1.0	.00	.00	.00	.00	.00
18	.00	.86	e.86	e.99	e2.4	1.9	1.1	.00	.00	.00	.00	.00
19	.00	.87	e.70	e.98	e2.3	2.0	1.0	.00	.00	.00	.00	.00
20	.00	.82	e.62	e1.1	e2.4	2.8	.98	.00	.00	.00	.97	.00
21	.00	.75	e.58	e1.2	e2.5	3.2	.94	.00	.00	.00	.27	.00
22	.00	.82	e.45	e1.2	e2.5	2.6	1.0	.00	.00	.00	.00	.00
23	.00	1.4	e.36	e1.3	e2.4	2.3	.87	.00	.00	.00	.00	.00
24	.00	2.7	e.35	e1.3	e2.0	2.0	.86	.00	.00	.00	.00	.00
25	.00	2.2	e.37	e1.3	e2.0	1.9	1.2	.00	.00	2.9	.00	.00
26	.00	1.3	e.39	e1.3	e2.1	1.9	1.5	.00	.00	1.4	9.4	.00
27	.00	.92	e.42	e1.4	e2.3	2.0	1.6	.00	.00	.00	.01	.00
28	.00	.85	e.50	e1.2	e2.5	1.9	1.5	.00	.00	.00	.00	.00
29	.00	.89	e.60	e1.1	---	1.7	1.3	.00	.00	.00	.00	.00
30	.00	e.96	e.94	e1.0	---	1.7	1.1	.00	.00	.00	.00	.00
31	.00	---	e1.2	e.90	---	1.7	---	.00	---	.00	.00	---
TOTAL	0.00	19.62	23.00	41.07	52.78	68.3	50.45	4.96	0.00	4.30	10.65	65.16
MEAN	.000	.65	.74	1.32	1.88	2.20	1.68	.16	.000	.14	.34	2.17
MAX	.00	2.7	1.2	2.3	2.5	3.2	4.6	.92	.00	2.9	9.4	27
MIN	.00	.00	.35	.90	.90	1.7	.86	.00	.00	.00	.00	.00
AC-FT	.00	39	46	81	105	135	100	9.8	.00	8.5	21	129

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1994, BY WATER YEAR (WY)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
MEAN	1.75	1.54	1.39	3.21	11.7	47.0	59.3	5.98	.21	3.29	6.64	2.88													
MAX	12.6	13.7	5.87	41.9	73.4	263	308	65.3	1.97	25.6	23.6	17.5													
(WY)	1984	1984	1984	1993	1980	1985	1973	1973	1979	1977	1977	1984													
MIN	.000	.000	.013	.11	.33	.66	.009	.010	.000	.000	.000	.000													
(WY)	1974	1971	1971	1977	1972	1971	1972	1971	1970	1971	1986	1979													

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1970 - 1994

ANNUAL TOTAL	11991.78	340.29	
ANNUAL MEAN	32.9	.93	12.0
HIGHEST ANNUAL MEAN			46.9
LOWEST ANNUAL MEAN			.50
HIGHEST DAILY MEAN	504	Mar 20	1530
LOWEST DAILY MEAN	.00	May 30	.00
ANNUAL SEVEN-DAY MINIMUM	.00	May 30	.00
INSTANTANEOUS PEAK FLOW			337
INSTANTANEOUS PEAK STAGE			4.23
ANNUAL RUNOFF (AC-FT)	23790	675	8720
10 PERCENT EXCEEDS	108	2.2	11
50 PERCENT EXCEEDS	.67	.54	.84
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

a-From rating curve extended above 670 ft³/s on basis of slope-area measurements at gage heights 4.05 ft, 3.95 ft and 6.61 ft.

LITTLE COLORADO RIVER BASIN

09386950 ZUNI RIVER ABOVE BLACK ROCK RESERVOIR, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD, WATER YEARS 1970-75, NOVEMBER TO MARCH, 1994. (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED SATUR-ATION (PER-CENT) (00301)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CaCO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)
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NOV 1993												
22...	1630	0.82	783	8.3	11.0	3.5	600	9.8	94	310	0	74
MAR 1994												
01...	1530	2.7	760	8.4	10.5	6.5	610	11.2	114	240	0	63

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3) (39086)	ALKA-LINITY LAB (MG/L AS CaCO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)
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NOV 1993												
22...	30	110	3	4.9	381	29	360	353	150	31	0.40	16
MAR 1994												
01...	21	72	2	3.5	301	14	271	279	110	18	0.30	15

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (UG/L AS PB) (70301)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
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NOV 1993											
22...	633	1	<1	90	<1	<1.0	1	<1	2	2	12
MAR 1994											
01...	465	<1	<1	80	<1	<1.0	<1	<1	<1	<1	8

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	SEDI-MENT, DIS-SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
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NOV 1993											
22...	2	<1	<0.10	<0.1	<1	<1	<10	7	--	--	--
MAR 1994											
01...	<1	<1	<0.10	<0.1	<1	<1	<10	<3	13	0.10	70

LITTLE COLORADO RIVER BASIN

09387300 ZUNI RIVER AT NEW MEXICO-ARIZONA STATE LINE

LOCATION.--Lat 34°52'35", Long 109°02'29", in SW¼SW¼ sec.34, T.7 N., R.21 W., Cibola County, Hydrologic Unit 15020004, on Zuni Indian Reservation, on the left bank 0.2 mi upstream from the New Mexico-Arizona State line, 5 mi southwest of Ojo Caliente, and 14 mi southwest of Zuni.

DRAINAGE AREA.--1,314 mi², of which 13 mi² is non contributing.

PERIOD OF RECORD.--October 1983 to April 1987 (annual maximum only), May 1987 to September 1989, September 1990 to September 1994 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 6,020 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to May 12, 1987 crest-stage gage at site 200 ft upstream at same datum.

REMARKS.--Records good. Flow partly regulated by Black Rock Reservoir 18 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	e.04	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	31
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.8
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.62
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.26
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	2.4	.00	e.04	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	e.62	.00	e.06	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	e.03	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	e.00	.00	.00	e.05	.00	.00	.00	.00
12	.00	.00	.00	.00	e.00	.00	.00	e.06	.00	.00	.00	.00
13	.00	.00	.00	.00	e.00	.00	e.04	e.04	.00	.00	.00	.00
14	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	15	.00
15	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	e.14	.00
16	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	e.03	.00
17	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	e.16	.00
28	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	3.02	0.00	0.17	0.19	0.00	0.00	15.33	38.68
MEAN	.000	.000	.000	.000	.11	.000	.006	.006	.000	.000	.49	1.29
MAX	.00	.00	.00	.00	2.4	.00	.06	.06	.00	.00	15	31
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	6.0	.00	.3	.4	.00	.00	30	77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1994, BY WATER YEAR (WY)

	MEAN	.11	.13	.000	2.05	4.28	29.8	8.82	.30	.000	2.96	1.14	.40
MAX	.54	.79	.000	12.3	25.9	178	52.9	1.29	.000	11.2	2.51	1.29	
(WY)	1993	1988	1988	1993	1993	1993	1993	1993	1988	1992	1989	1994	
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.030	.000	
(WY)	1989	1989	1988	1988	1988	1988	1988	1988	1988	1988	1991	1991	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1988 - 1994

ANNUAL TOTAL	8302.37	57.39	
ANNUAL MEAN	22.7	.16	4.18
HIGHEST ANNUAL MEAN			22.8
LOWEST ANNUAL MEAN			.015
HIGHEST DAILY MEAN	553	Mar 22	553
LOWEST DAILY MEAN	.00	Jan 1	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00
INSTANTANEOUS PEAK FLOW		74	1330
INSTANTANEOUS PEAK STAGE		3.35	5.63
ANNUAL RUNOFF (AC-FT)	16470	114	3030
10 PERCENT EXCEEDS	44	.00	.04
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

a-From rating curve extended above 200 ft³/s on basis of step-backwater analysis.

GILA RIVER BASIN

09430500 GILA RIVER NEAR GILA, NM

LOCATION.--Lat 33°03'40", long 108°32'12", in NE¼NW¼ sec.30, T.14 S., R.16 W., Grant County, Hydrologic Unit 15040001, on left bank at Hooker damsite, 1.6 mi upstream from Mogollon Creek, 7 mi northeast of Gila, and at 5722 ft.

PERIOD OF RECORD.--April to December 1914, December 1927 to current year. Monthly discharge only December 1927 to September 1930, published in WSP 1313.

REVISED RECORDS.--WSP 1283: Drainage area. WSP 1313: 1944 (M), 1949 (M). WDR NM-78-1: 1977.

GAGE.--Water-stage recorder. Datum of gage is 4,654.8 ft above National Geodetic Vertical Datum of 1929, (river-profile survey). Prior to Dec. 31, 1928, at site 5 mi upstream at different datum. Dec. 31, 1928, to Jan. 7, 1942, at site 200 ft upstream at datum 1.00 ft higher. Prior to Feb. 28, 1994 at datum 1.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 500 acres upstream from station. Several observations of water temperature were made during the year. National Weather Service gage height and rain gage satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Other major floods occurred in November 1905, December 1906, and January 1916.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	81	93	73	78	84	126	82	54	29	39	49
2	84	80	92	72	74	86	120	79	52	27	36	52
3	83	78	90	71	70	87	116	74	48	26	36	56
4	82	79	87	70	70	88	115	72	48	25	36	68
5	82	78	85	71	73	90	113	70	47	24	48	93
6	80	76	83	72	74	93	113	68	44	24	61	89
7	98	75	81	72	74	98	111	67	42	23	47	97
8	98	74	79	71	110	101	111	68	40	21	40	118
9	89	75	79	70	195	105	109	67	38	21	38	105
10	84	75	80	70	172	107	104	67	37	21	36	87
11	83	74	80	70	147	106	101	68	36	21	38	73
12	86	86	82	69	135	103	100	72	36	22	37	92
13	86	91	84	68	126	103	100	71	36	21	34	103
14	83	99	83	68	116	105	97	70	38	21	31	85
15	77	100	80	71	110	104	96	69	34	21	33	72
16	75	105	79	72	106	101	94	66	33	21	37	63
17	92	103	79	72	102	99	90	60	33	21	36	58
18	116	100	78	71	103	101	89	58	33	29	35	54
19	115	98	78	71	113	109	88	55	34	29	35	50
20	117	98	81	72	115	156	89	56	36	28	37	49
21	107	96	80	72	110	327	93	55	41	26	36	47
22	97	98	80	71	105	344	95	53	44	26	37	46
23	91	98	78	72	100	272	94	56	43	28	37	46
24	87	96	77	73	97	229	98	60	41	27	38	44
25	87	94	73	73	94	200	99	66	37	28	39	43
26	85	95	72	72	92	183	99	69	35	29	40	42
27	85	96	72	73	90	167	97	72	33	29	40	41
28	89	95	74	74	87	157	95	70	31	31	41	39
29	87	93	75	79	---	145	91	65	30	30	39	38
30	83	92	75	79	---	137	85	61	30	34	51	37
31	83	---	75	78	---	131	---	56	---	60	51	---
TOTAL	2775	2678	2484	2232	2938	4318	3028	2042	1164	823	1219	1936
MEAN	89.5	89.3	80.1	72.0	105	139	101	65.9	38.8	26.5	39.3	64.5
MAX	117	105	93	79	195	344	126	82	54	60	61	118
MIN	75	74	72	68	70	84	85	50	30	21	31	37
AC-FT	5500	5310	4930	4430	5830	8560	6010	4050	2310	1630	2420	3840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1994, BY WATER YEAR (WY)

	MEAN	120	89.9	164	174	236	321	224	145	61.0	65.0	141	143
MAX	994	581	1632	1810	1204	1049	903	716	249	225	901	960	
(WY)	1973	1979	1979	1993	1993	1985	1973	1973	1992	1986	1988	1988	
MIN	29.1	47.8	50.1	50.0	50.9	53.9	49.2	38.2	23.5	22.3	37.5	24.0	
(WY)	1957	1951	1954	1954	1954	1971	1971	1959	1974	1971	1956	1956	

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1928 - 1994
ANNUAL TOTAL	150992	27637	
ANNUAL MEAN	414	75.7	158
HIGHEST ANNUAL MEAN			477
LOWEST ANNUAL MEAN			47.8
HIGHEST DAILY MEAN	8210	344	23400
LOWEST DAILY MEAN	27	21	15
ANNUAL SEVEN-DAY MINIMUM	31	21	16
INSTANTANEOUS PEAK FLOW		404	a35200
INSTANTANEOUS PEAK STAGE		2.19	b13.00
INSTANTANEOUS LOW FLOW		19	14
ANNUAL RUNOFF (AC-FT)	299500	54820	114100
10 PERCENT EXCEEDS	750	109	315
50 PERCENT EXCEEDS	122	75	74
90 PERCENT EXCEEDS	73	33	40

a-From rating curve extended above 7,000 ft/s on basis of slope-area measurement at gage height 12.5 ft; maximum gage height, 17.2 ft from floodmark, Sept. 29, 1941.

b-From floodmarks.

GILA RIVER BASIN

09430600 MOGOLLON CREEK NEAR CLIFF, NM

(Hydrologic bench-mark station)

LOCATION.--Lat 33°10'00", long 108°38'57", in SE¼SE¼ sec.13, T.13 S., R.18 W., Grant County, Hydrologic Unit 15040001, on right bank 0.3 mi downstream from Rain Creek, 0.8 mi downstream from Gila Wilderness Boundary, 12 mi upstream from mouth, and 14 mi north of Cliff.

DRAINAGE AREA.--69 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1967 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,440 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are fair. No flow at times. See tabulation below for monthly precipitation in inches.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	5.5	11	8.2	6.8	12	16	5.0	1.2	.00	e2.0	9.8
2	2.0	5.2	10	7.9	19	12	16	4.6	.99	.00	2.3	7.8
3	1.9	4.9	9.6	7.6	24	12	17	4.4	.79	.00	1.5	26
4	1.8	4.8	10	7.2	4.3	13	17	4.2	.67	.00	.89	48
5	1.7	4.9	8.8	7.1	4.2	17	18	3.9	.52	.00	.51	21
6	2.2	4.9	8.6	6.9	4.1	20	17	3.7	.25	.00	.12	17
7	13	4.9	8.5	17	4.6	21	15	3.7	.08	.00	.00	25
8	8.2	4.8	8.3	25	36	24	13	3.6	.00	.00	.00	21
9	5.6	4.7	8.3	26	30	22	12	3.4	.00	.00	.00	14
10	4.7	4.6	8.2	16	25	18	12	3.3	.00	.00	.00	11
11	4.2	5.1	8.1	23	26	16	11	3.3	.00	.00	.00	20
12	3.8	14	9.2	29	23	16	10	3.2	.00	e.00	.00	15
13	3.6	13	10	19	19	15	9.3	3.2	.00	e.10	.00	11
14	3.5	14	8.8	24	17	14	9.0	3.1	.00	e.20	.00	8.5
15	3.1	17	8.5	5.0	15	13	9.6	2.9	.00	e.40	.00	6.8
16	3.0	19	8.3	4.5	17	13	10	2.5	.00	e.40	.26	5.5
17	97	27	12	5.3	25	18	11	2.1	.00	e.50	.86	4.5
18	77	24	8.3	4.9	34	26	13	1.9	.00	e.60	.82	3.8
19	34	29	8.5	3.9	29	29	12	1.8	.00	e.80	.02	3.2
20	24	26	8.5	3.8	21	177	12	1.7	.00	e.80	3.1	2.7
21	19	22	8.6	3.5	18	138	13	1.6	11	e1.0	1.9	2.4
22	15	19	8.8	3.3	15	88	13	1.5	4.6	e1.0	.86	2.3
23	12	21	15	3.4	13	65	12	1.6	1.9	e1.5	.23	2.0
24	10	30	35	3.3	11	49	11	2.4	1.1	e1.5	.21	1.6
25	8.4	25	32	3.5	10	40	10	4.0	.76	e1.5	.95	1.4
26	7.5	20	32	4.1	10	35	9.0	6.0	.31	e2.0	.80	1.2
27	7.9	16	9.8	4.1	11	29	7.7	5.4	.00	e2.0	1.5	1.1
28	7.1	15	9.7	5.0	12	24	7.0	3.4	.00	e2.0	1.7	.96
29	6.5	13	9.6	5.2	---	20	6.2	2.6	.00	e2.0	11	.80
30	6.0	12	8.9	5.9	---	18	5.7	1.9	.00	e2.0	12	.71
31	5.7	---	8.6	5.2	---	16	---	1.5	---	e2.0	8.4	---
TOTAL	401.6	430.3	359.5	297.8	484.0	1030	354.5	97.4	24.17	22.30	51.93	296.07
MEAN	13.0	14.3	11.6	9.61	17.3	33.2	11.8	3.14	.81	.72	1.68	9.87
MAX	97	30	35	29	36	177	18	6.0	11	2.0	12	48
MIN	1.7	4.6	8.1	3.3	4.1	12	5.7	1.5	.00	.00	.00	.71
AC-FT	797	853	713	591	960	2040	703	193	48	44	103	587
(†)	1.97	0.99	0.50	0.11	0.01	1.57	0.08	1.82	1.59	1.85	2.60	1.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1994, BY WATER YEAR (WY)

	MEAN	23.9	15.4	47.6	38.3	59.6	73.1	59.6	30.5	3.77	5.34	15.9	16.6
MAX	237	166	410	298	211	272	182	160	24.1	24.5	56.8	120	
(WY)	1973	1979	1979	1993	1968	1978	1973	1992	1992	1986	1967	1975	
MIN	.14	1.07	1.03	1.14	1.44	1.33	.90	.26	.000	.000	1.02	.33	
(WY)	1980	1971	1974	1971	1971	1971	1971	1971	1971	1980	1975	1987	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1967 - 1994

ANNUAL TOTAL	28415.91	3849.57	
ANNUAL MEAN	77.9	10.5	32.7
HIGHEST ANNUAL MEAN			97.0
LOWEST ANNUAL MEAN			1.83
HIGHEST DAILY MEAN	1460	177	6000
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.01	.00	.00
INSTANTANEOUS PEAK FLOW		288	b10800
INSTANTANEOUS PEAK STAGE		2.65	a13.70
ANNUAL RUNOFF (AC-FT)	56360	7640	23690
10 PERCENT EXCEEDS	200	24	88
50 PERCENT EXCEEDS	19	6.0	7.0
90 PERCENT EXCEEDS	1.7	.00	.40

e Estimated

a-From floodmarks.

b-From rating curve extended above 400 ft³/s on basis of slope-area measurement of peak flow.

(†) Total rainfall accumulation in inches.

GILA RIVER BASIN

09430600 MOGOLLON CREEK NEAR CLIFF, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967 to current years.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
OCT 1993											
25...	1630	8.3	101	8.1	20.5	11.0	0.50	627	9.7	107	K11
JAN 1994											
24...	1630	3.3	115	8.5	14.0	5.0	0.10	624	10.6	102	K2
APR											
05...	1430	18	68	7.3	--	12.0	1.0	650	--	--	K1
AUG											
02...	1750	2.3	103	8.4	29.0	24.5	1.0	600	9.6	148	41

DATE	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
OCT 1993											
25...	21	41	1	12	2.7	5.3	0.4	0.80	49	0	40
JAN 1994											
24...	K2	44	2	13	2.9	6.4	0.4	0.70	52	0	43
APR											
05...	16	24	0	7.0	1.5	4.0	0.4	0.60	29	0	26
AUG											
02...	98	40	0	12	2.4	5.8	0.4	0.90	52	0	43

DATE	ALKA- LITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 1993											
25...	37	9.8	1.4	0.30	21	75	78	<0.010	<0.050	0.020	0.50
JAN 1994											
24...	45	10	1.5	0.40	17	81	78	<0.010	<0.050	0.010	<0.20
APR											
05...	25	6.8	0.80	0.20	16	60	52	0.010	<0.050	0.010	<0.20
AUG											
02...	47	6.9	1.0	0.40	19	83	74	<0.010	<0.050	0.020	<0.20

DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)
OCT 1993											
25...	0.030	<0.010	0.010	40	3	<3	17	7	<1	<10	<1
JAN 1994											
24...	0.010	<0.010	<0.010	<10	3	<3	6	<4	<1	<10	<1
APR											
05...	<0.010	0.010	<0.010	270	4	<3	32	<4	2	<10	<1
AUG											
02...	0.020	0.020	0.090	30	4	<3	23	<4	7	<10	<1

GILA RIVER BASIN

09430600 MOGOLLON CREEK NEAR CLIFF, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 1993											
25...	<1	<1.0	57	<6	0.04	0.010	0.09	<1.0	6	0.13	17
JAN 1994											
24...	<1	<1.0	63	<6	--	--	--	--	11	0.10	52
APR											
05...	<1	<1.0	35	<6	0.65	0.140	0.14	<1.0	14	0.68	50
AUG											
02...	<1	<1.0	62	<6	--	--	--	--	--	--	--

GILA RIVER BASIN

09431500 GILA RIVER NEAR REDROCK, NM

(National stream-quality accounting network and radiochemical network station)

LOCATION.--Lat 32°43'37", long 108°40'30", in W¼ sec.23, T.18 S., R.18 W., Grant County, Hydrologic Unit 15040002, on 1900 dam 0.2 mi downstream from Copper Canyon, 0.2 mi upstream from lower end of box canyon, 4.7 mi northeast of Redrock, 14 mi downstream from Maricao Creek, and at mile 522.2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1904 to February 1905 (gage heights only). May 1905 to December 1906, January to December 1907 and July to October 1908 (gage heights only). November 1908 to December 1910, January 1911 to January 1912 and May to June 1912 (gage heights only). August 1912 to September 1955, October 1962 to current year. Monthly or annual discharge only some periods, published in WSP 1313. Published as "near Cliff" 1904-7.

REVISED RECORDS.--WSP 1213: 1906, 1911-15, 1931, 1936-37, 1939, 1941, 1944, 1945(P), 1946(M), 1947. WSP 1283: Drainage area. WSP 1926: 1955. WDR NM-78-1: 1977.

GAGE.--Water-stage recorder. Elevation of gage is 4,090 ft above National Geodetic Vertical Datum of 1929, from plane table survey. Prior to Dec. 31, 1907, nonrecording gage at site 13.5 mi upstream at different datum. May 14, 1908, to July 16, 1909, nonrecording gage at site 0.2 mi downstream at different datum. June 13, 1980 to Feb. 23, 1983 at site 1,300 ft downstream at same datum.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 5,000 acres upstream from station. Gage height and rain gage satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	110	135	114	125	126	188	101	56	17	75	87
2	97	111	134	112	124	124	181	93	53	16	50	86
3	88	107	131	108	124	128	160	73	49	17	45	78
4	82	112	129	86	121	127	157	67	44	24	39	130
5	90	109	126	83	120	126	151	67	45	17	35	332
6	94	106	122	82	117	129	141	85	44	17	34	210
7	167	107	121	99	111	128	135	83	43	16	38	378
8	145	107	119	95	130	126	139	83	40	14	44	198
9	132	114	122	99	183	129	146	83	32	15	35	171
10	123	115	124	102	256	135	143	83	27	14	31	124
11	117	116	126	105	236	141	141	83	23	14	28	135
12	112	117	124	109	208	135	136	81	24	13	26	109
13	115	126	124	109	192	133	129	87	26	12	17	130
14	115	136	122	109	182	142	127	83	25	11	15	153
15	111	146	118	109	175	140	129	64	25	11	15	131
16	105	153	119	101	170	134	128	68	25	12	17	116
17	109	153	119	99	164	123	118	75	20	10	26	104
18	129	151	114	101	155	119	113	73	18	25	26	88
19	145	150	111	103	152	113	118	71	17	22	23	82
20	135	148	112	109	163	133	125	71	20	25	27	61
21	126	147	106	106	171	332	127	69	18	28	31	78
22	116	146	110	108	168	619	117	70	28	27	30	73
23	109	144	112	110	155	477	123	69	28	27	35	65
24	102	140	110	112	149	379	128	67	25	29	36	66
25	97	143	108	110	142	333	129	79	23	27	26	71
26	95	141	111	112	136	295	138	83	25	24	42	72
27	101	143	112	110	132	271	133	87	26	30	55	66
28	119	142	112	115	130	247	116	86	26	28	56	55
29	114	141	111	125	---	228	109	81	20	29	66	44
30	107	138	114	126	---	212	105	77	19	32	92	39
31	106	---	113	126	---	198	---	66	---	146	152	---
TOTAL	3512	3919	3671	3294	4391	6182	4030	2408	894	749	1267	3552
MEAN	113	131	118	106	157	199	134	77.7	29.8	24.2	40.9	118
MAX	167	153	135	126	256	619	188	101	56	146	152	378
MIN	82	106	106	82	111	113	105	64	17	10	15	39
AC-FT	6970	7770	7280	6530	8710	12260	7990	4780	1770	1490	2510	7050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1994, BY WATER YEAR (WY)

MEAN	217	133	338	323	422	509	323	205	63.7	74.6	212	227
MAX	1768	674	2200	2987	1692	1438	1155	1068	278	287	1182	1315
(WY)	1973	1979	1979	1993	1993	1978	1973	1992	1992	1986	1988	1975
MIN	27.6	55.1	60.0	64.9	53.8	40.0	41.2	27.2	12.0	15.6	40.9	22.2
(WY)	1974	1974	1981	1971	1971	1971	1971	1971	1974	1978	1994	1978

SUMMARY STATISTICS	FOR 1993 CALENDAR YEAR	FOR 1994 WATER YEAR	WATER YEARS 1963 - 1994
ANNUAL TOTAL	231977	37869	
ANNUAL MEAN	636	104	253
HIGHEST ANNUAL MEAN			664
LOWEST ANNUAL MEAN			57.2
HIGHEST DAILY MEAN	16000	Jan 19	619
LOWEST DAILY MEAN	22	Jul 29	10
ANNUAL SEVEN-DAY MINIMUM	24	Jul 27	12
INSTANTANEOUS PEAK FLOW			827
INSTANTANEOUS PEAK STAGE			5.99
INSTANTANEOUS LOW FLOW			10
ANNUAL RUNOFF (AC-FT)	460100	75110	183600
10 PERCENT EXCEEDS	1250	153	555
50 PERCENT EXCEEDS	153	109	99
90 PERCENT EXCEEDS	79	25	34

a-In gage well, 34.1 ft from floodmarks.

b-From rating curve extended above 9,500 ft³/s on basis of slope-area measurement of peak flow.

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

[illegible]

09431500 GILA RIVER NEAR REDROCK. NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALKA- LINTY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINTY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)
OCT 1993											
26...	123	115	35	11	1.7	--	230	199	11	0.520	--
NOV											
30...	124	128	33	11	1.7	28	227	224	6	0.460	--
DEC											
29...	139	134	36	12	1.7	31	237	240	1	0.700	--
JAN 1994											
25...	--	249	36	12	1.8	--	240	277	11	0.710	--
MAR											
01...	130	--	--	--	--	--	--	--	19	0.640	--
APR											
05...	114	119	29	10	1.9	--	222	177	16	0.440	--
MAY											
03...	128	129	32	12	1.9	28	226	227	7	0.160	--
JUN											
01...	139	139	39	12	1.7	--	377	214	4	0.500	--
09...	122	138	35	11	2.0	--	239	199	12	0.170	--
JUL											
02...	140	121	44	12	1.8	--	252	217	5	0.020	--
AUG											
02...	140	147	42	13	1.9	36	286	265	204	0.750	0.680
SEP											
02...	150	145	41	14	1.9	--	276	232	346	--	--
22...	--	--	--	--	--	--	--	--	32	--	--

[illegible]

GILA RIVER BASIN

09431500 GILA RIVER NEAR REDROCK, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, TOTAL (UG/L AS SB) (01097)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
OCT 1993											
26...	--	0.030	--	<1	2	1	16	<10	30	<1	<1.0
NOV											
30...	0.030	0.030	<10	--	1	--	14	--	40	<1	--
DEC											
29...	0.050	0.040	--	--	--	--	--	--	40	--	--
JAN 1994											
25...	0.040	--	--	--	1	2	14	--	50	<1	<1.0
MAR											
01...	0.050	0.030	--	--	--	--	--	--	40	--	--
APR											
05...	0.030	--	--	--	1	1	13	--	30	<1	<1.0
MAY											
03...	0.020	0.020	<10	--	1	--	14	--	50	<1	--
JUN											
01...	0.030	--	--	--	2	1	17	--	50	<1	<1.0
09...	0.010	--	--	--	2	2	15	--	40	<1	<1.0
JUL											
02...	0.020	--	--	--	1	2	17	--	50	<1	<1.0
AUG											
02...	0.070	0.080	20	--	--	--	21	--	60	--	--
SEP											
02...	--	--	--	--	2	2	32	--	60	<1	<1.0
22...	--	--	--	--	3	--	--	--	--	<1	--

DATE	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)
OCT 1993										
26...	<1	1	--	3	1	290	11	<1	<1	--
NOV										
30...	<1	--	<3	2	--	130	27	<1	--	20
DEC										
29...	--	--	--	--	--	--	--	--	--	--
JAN 1994										
25...	<1	<1	--	3	1	190	8	<1	<1	--
MAR										
01...	--	--	--	--	--	--	--	--	--	--
APR										
05...	<1	<1	--	4	2	440	14	1	<1	--
MAY										
03...	<1	--	<3	2	--	120	6	<1	--	21
JUN										
01...	<1	<1	--	2	1	150	4	<1	<1	--
09...	<1	<1	--	3	2	200	17	<1	<1	--
JUL										
02...	2	<1	--	2	3	80	6	<1	1	--
AUG										
02...	--	--	<3	--	--	--	11	--	--	21
SEP										
02...	10	1	--	39	2	8300	10	11	<1	--
22...	2	--	--	6	--	830	--	1	--	--

GILA RIVER BASIN

09431500 GILA RIVER NEAR REDROCK, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
OCT 1993										
26...	10	2	<1.0	--	2	--	<1	<1	<1.0	--
NOV										
30...	<10	2	<0.10	<10	--	<1	<1	<1	<1.0	150
DEC										
29...	--	--	--	--	--	--	--	--	--	--
JAN 1994										
25...	10	2	<0.10	--	--	--	<1	<1	<1.0	--
MAR										
01...	--	--	0.10	--	--	--	--	--	--	--
APR										
05...	20	2	<0.10	--	--	--	<1	<1	<1.0	--
MAY										
03...	<10	3	0.10	<10	--	<1	<1	<1	<1.0	150
JUN										
01...	10	3	<0.10	--	--	--	<1	<1	<1.0	--
09...	20	31	<0.10	--	--	--	<1	<1	<1.0	--
JUL										
02...	20	1	<0.10	--	--	--	<1	<1	<1.0	--
AUG										
02...	--	3	--	<10	--	<1	--	<1	<1.0	190
SEP										
02...	340	2	<0.10	--	--	--	<2	<1	<1.0	--
22...	40	--	<0.10	--	--	--	<1	--	--	--

DATE	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 1993									
26...	--	<10	4	--	--	--	--	15	4.0
NOV									
30...	<6	<10	--	--	--	--	--	13	5.0
DEC									
29...	--	--	--	0.06	0.020	1.8	<1.0	--	--
JAN 1994									
25...	--	<10	7	--	--	--	--	17	5.2
MAR									
01...	--	--	--	--	--	--	--	22	7.4
APR									
05...	--	<10	10	--	--	--	--	20	8.0
MAY									
03...	<6	<10	--	0.03	0.010	1.4	<1.0	16	3.1
JUN									
01...	--	<10	<3	--	--	--	--	21	3.5
09...	--	<10	10	--	--	--	--	20	2.1
JUL									
02...	--	<10	4	--	--	--	--	16	0.65
AUG									
02...	11	--	--	--	--	--	--	220	37
SEP									
02...	--	40	<3	--	--	--	--	1310	293
22...	--	<10	--	--	--	--	--	--	--

CROSS SECTION ANALYSES

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM R BK) (72103)	DEPTH AT SAMPLE LOC- ATION, (FEET) (81903)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
AUG 1994							
02...	1201	5.0	1.70	3.7	313	27.0	255
02...	1202	7.0	1.70	4.9	313	27.0	246
02...	1203	9.0	1.60	4.8	313	26.5	272
02...	1204	11.0	1.60	5.3	313	26.5	244
02...	1205	13.0	1.70	5.6	313	26.5	241
02...	1206	15.0	1.60	5.3	313	27.0	245
02...	1207	17.0	1.60	5.3	313	27.0	251
02...	1208	19.0	1.50	4.9	313	27.0	256
02...	1209	21.0	1.20	4.4	313	27.0	240
02...	1210	23.0	1.10	3.7	313	27.0	241

a-From rating curve extended above 38,000 ft³/s on basis of slope-area measurement of peak flow.

GILA RIVER BASIN

09442680 SAN FRANCISCO RIVER NEAR RESERVE, NM

LOCATION.--Lat 33°44'12", long 108°46'14", in NE1/4NW1/4 sec.35, T.6 S., R.19 W., Catron County, Hydrologic Unit 15040004 on left bank 1 300 ft downstream from Rainbow Bridge Canyon 1.7 mi northwest of Reserve and at mile 563.1.

DRAINAGE AREA.--350 mi², approximately.

PERIOD OF RECORD.--March 1959 to current year.

REVISED RECORDS.--WDR NM-78-1: 1977. WDR NM-84-1: 1973, 1979-80.

GAGE.--Water-stage recorder. Elevation of gage is 5,820 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Dec. 15, 1972 at site 1,800 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Possible minor regulation by Luna Lake, 27 mi upstream. Diversions for irrigation of about 280 acres upstream from station. Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, about 15 ft, as determined in 1962 from old floodmarks. Major floods of Nov. 26, 1905 and Dec. 3, 1906, exceeded 20,000 ft³/s at Alma (downstream). See WSP 1313.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	13	9.6	9.9	7.0	7.2	13	13	7.6	3.3	10	e13
2	7.8	13	9.9	8.9	8.6	8.4	11	14	6.7	4.0	15	e11
3	7.8	12	11	9.7	8.4	10	10	12	6.0	3.8	3.6	e12
4	9.5	12	11	9.5	8.1	11	10	8.8	5.7	3.5	4.6	e24
5	9.9	12	11	10	9.0	12	7.9	7.6	5.5	2.9	e4.0	e42
6	9.7	12	10	11	8.4	11	7.3	8.9	5.2	2.7	e5.0	e27
7	11	13	9.7	9.3	7.7	10	7.1	7.5	4.6	2.5	e11	e21
8	9.3	13	9.3	9.2	11	13	6.8	6.8	4.4	2.0	e8.0	e21
9	12	13	9.5	9.1	14	11	6.9	7.2	4.0	1.9	e7.0	e21
10	9.8	10	11	9.5	13	6.3	6.1	7.9	3.8	1.9	e6.0	e12
11	9.8	12	11	8.9	11	5.8	4.9	12	3.5	1.8	e6.0	e9.0
12	9.8	15	16	9.0	9.2	6.0	4.8	13	3.4	1.7	e6.0	e10
13	9.8	17	13	10	8.3	5.9	4.1	11	3.5	1.6	e7.0	e18
14	9.8	17	11	10	8.0	5.9	3.3	11	3.7	1.5	e8.0	e18
15	11	15	12	9.8	5.9	6.8	15	11	4.1	1.4	e10	14
16	11	15	11	9.5	7.2	7.1	27	11	3.3	1.4	e9.0	13
17	16	12	13	9.8	8.6	6.8	20	9.0	2.9	2.0	e10	12
18	14	12	13	9.7	15	7.8	17	8.2	3.8	2.5	e10	12
19	15	12	12	9.5	12	8.3	21	6.0	5.6	2.8	e8.0	9.6
20	16	13	10	9.2	9.8	13	18	6.1	9.8	2.6	e7.0	9.6
21	13	11	7.2	8.7	8.4	45	19	7.7	10	2.6	e7.0	9.0
22	13	12	9.6	9.5	6.6	42	20	8.1	7.3	3.5	e6.0	9.0
23	13	13	8.8	10	5.2	31	19	7.8	6.0	3.4	e7.0	8.3
24	13	14	8.6	9.8	5.8	23	17	8.4	4.7	3.3	e6.0	6.3
25	12	13	11	8.7	6.5	18	15	8.9	3.6	3.2	e7.0	7.0
26	13	12	11	8.7	5.3	17	16	16	3.6	4.0	e7.0	7.0
27	15	12	12	8.9	5.5	18	17	15	3.6	3.7	e8.0	6.4
28	14	13	11	11	6.1	17	13	13	3.1	3.6	e12	6.6
29	14	10	10	9.6	---	14	12	7.9	4.1	4.0	e12	6.4
30	14	9.5	9.8	8.5	---	12	13	8.6	2.8	5.0	e11	6.4
31	12	---	9.9	9.0	---	12	---	8.5	---	7.0	e14	---
TOTAL	364.6	382.5	332.9	293.9	239.6	422.3	382.2	301.9	145.9	91.1	252.2	401.6
MEAN	11.8	12.7	10.7	9.48	8.56	13.6	12.7	9.74	4.86	2.94	8.14	13.4
MAX	16	17	16	11	15	45	27	16	10	7.0	15	42
MIN	7.2	8.5	7.2	8.5	5.2	5.8	3.2	6.0	2.8	1.4	3.6	6.3
AC-FT	723	759	660	583	475	838	758	599	289	181	500	797

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1994, BY WATER YEAR (WY)

	MEAN	31.5	17.5	21.8	22.3	40.8	80.8	57.7	21.1	6.79	9.01	16.7	19.6
MAX	430	211	159	159	231	336	398	162	39.7	28.3	79.2	172	172
(WY)	1984	1979	1979	1993	1993	1985	1973	1992	1967	1967	1967	1983	1983
MIN	3.27	5.18	5.11	5.68	5.14	4.04	3.38	2.70	1.39	1.80	4.55	3.09	3.09
(WY)	1983	1976	1978	1970	1964	1959	1967	1959	1990	1971	1961	1959	1959

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1959 - 1994

ANNUAL TOTAL	27894.2	3610.7	
ANNUAL MEAN	76.4	9.89	29.2
HIGHEST ANNUAL MEAN			101
LOWEST ANNUAL MEAN			6.07
HIGHEST DAILY MEAN	1360	Feb 20	5000
LOWEST DAILY MEAN	3.3	Aug 20	.86
ANNUAL SEVEN-DAY MINIMUM	5.2	Jul 24	.98
INSTANTANEOUS PEAK FLOW			9830
INSTANTANEOUS PEAK STAGE			11.71
INSTANTANEOUS LOW FLOW			.78
ANNUAL RUNOFF (AC-FT)	55330	7160	21130
10 PERCENT EXCEEDS	251	15	57
50 PERCENT EXCEEDS	14	9.6	8.7
90 PERCENT EXCEEDS	8.3	3.7	3.6

e Estimated

GILA RIVER BASIN

09442692 TULAROSA RIVER ABOVE ARAGON, NM

LOCATION.--Lat 33°53'29", long 108°30'54", in NE¼NW¼ sec.9, T.5 S., R.16 W., Catron County, Hydrologic Unit 15040004, on right bank 0.4 mi upstream from first diversion, 1.4 mi northeast of Aragon, and 8 mi upstream from Apache Creek.

DRAINAGE AREA.--94 mi².

PERIOD OF RECORD.--July 1966 to current year. 1955 to 1965 at site 0.6 mi upstream (drainage area, 89 mi²), annual maximum only.

REVISED RECORD.--WDR NM-78-1: 1977.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,750 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.4	3.7	3.2	3.0	3.2	3.4	2.9	2.4	2.3	2.9	3.2
2	3.1	3.4	3.7	3.2	3.1	3.2	3.4	2.9	2.3	2.3	2.9	3.2
3	3.1	3.4	3.5	3.1	3.1	3.2	3.3	2.9	2.3	2.4	3.0	3.4
4	3.1	3.4	3.6	3.2	3.1	3.3	3.4	2.9	2.3	2.4	3.0	3.3
5	3.1	3.4	3.5	3.2	3.1	3.2	3.4	2.8	2.3	2.3	3.0	3.2
6	3.1	3.4	3.5	3.1	3.0	3.2	3.3	2.8	2.3	2.4	3.0	3.3
7	3.2	3.5	3.5	3.1	3.0	3.3	3.3	2.8	2.3	2.4	3.0	3.3
8	3.1	3.5	3.5	3.1	3.2	3.3	3.3	2.8	2.2	2.4	3.1	3.3
9	3.1	3.5	3.4	3.1	3.1	3.2	3.3	2.8	2.2	2.4	3.1	3.3
10	3.1	3.5	3.4	3.0	3.1	3.2	3.3	2.7	2.2	2.5	3.0	3.3
11	3.2	3.6	3.4	3.0	3.1	3.3	3.3	2.7	2.2	2.5	3.1	3.3
12	3.2	3.5	3.6	3.1	3.1	3.3	3.2	2.7	2.2	2.5	3.1	3.3
13	3.2	3.5	3.5	3.1	3.0	3.3	3.2	2.8	2.2	2.5	3.1	3.3
14	3.2	3.5	3.5	3.1	3.1	3.3	3.2	2.7	2.1	2.6	3.1	3.2
15	3.2	3.5	3.4	3.0	3.2	3.3	3.2	2.7	2.1	2.6	3.2	3.2
16	3.2	3.6	3.4	3.0	3.2	3.3	3.1	2.7	2.1	2.6	3.1	3.2
17	3.3	3.5	3.3	3.0	3.2	3.3	3.2	2.6	2.2	2.6	3.1	3.2
18	3.3	3.6	3.3	3.0	3.4	3.3	3.2	2.6	2.2	2.7	3.2	3.1
19	3.3	3.5	3.3	3.0	3.2	3.4	3.2	2.6	2.2	2.7	3.2	3.1
20	3.3	3.6	3.4	3.0	3.2	3.7	3.2	2.6	2.2	2.7	3.2	3.1
21	3.3	3.5	3.3	3.0	3.2	3.4	3.1	2.6	2.4	2.6	3.2	3.2
22	3.3	3.6	3.3	2.9	3.2	3.4	3.1	2.5	2.3	2.7	3.1	3.1
23	3.3	3.6	3.3	2.9	3.2	3.3	3.1	2.6	2.3	2.7	3.1	3.1
24	3.3	3.6	3.3	3.0	3.2	3.3	3.1	2.5	2.3	2.7	3.1	3.1
25	3.3	3.7	3.3	3.0	3.1	3.3	3.1	2.5	2.3	2.7	3.2	3.0
26	3.4	3.6	3.3	3.0	3.1	3.4	3.0	2.6	2.3	2.8	3.2	3.0
27	3.3	3.6	3.3	3.0	3.2	3.3	3.0	2.6	2.3	2.8	3.2	3.0
28	3.3	3.7	3.2	3.0	3.2	3.3	3.0	2.5	2.3	2.8	3.2	3.0
29	3.4	3.7	3.3	3.0	---	3.4	3.0	2.4	2.3	2.8	3.2	3.0
30	3.4	3.7	3.3	3.0	---	3.4	2.9	2.4	2.3	2.9	3.2	3.0
31	3.4	---	3.3	3.0	---	3.4	---	2.4	---	2.9	3.2	---
TOTAL	100.1	106.1	105.6	94.4	87.9	102.7	95.8	82.6	67.6	80.2	96.3	95.3
MEAN	3.23	3.54	3.41	3.05	3.14	3.31	3.19	2.66	2.25	2.59	3.11	3.18
MAX	3.4	3.7	3.7	3.2	3.4	3.7	3.4	2.9	2.4	2.9	3.2	3.4
MIN	3.0	3.4	3.2	2.9	3.0	3.2	2.9	2.4	2.1	2.3	2.9	3.0
AC-FT	199	210	209	187	174	204	190	164	134	159	191	189

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1994, BY WATER YEAR (WY)

	MEAN	3.37	3.02	3.46	3.30	4.08	5.12	5.00	3.00	2.86	3.02	2.97	2.99
MAX	10.6	3.87	7.72	10.4	10.8	17.2	24.2	3.64	3.33	5.12	3.41	3.65	
(WY)	1984	1973	1985	1993	1968	1985	1973	1992	1993	1992	1987	1976	
MIN	2.59	2.62	2.63	2.32	2.49	2.41	2.33	2.66	2.25	2.45	2.47	2.49	
(WY)	1983	1984	1984	1984	1984	1984	1984	1984	1994	1986	1986	1968	

SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1966 - 1994

ANNUAL TOTAL	1737.3	1114.6	
ANNUAL MEAN	4.76	3.05	3.51
HIGHEST ANNUAL MEAN			5.74
LOWEST ANNUAL MEAN			2.73
HIGHEST DAILY MEAN	116	Feb 20	3.7
LOWEST DAILY MEAN	3.0	Feb 5	2.1
ANNUAL SEVEN-DAY MINIMUM	3.0	Sep 20	2.2
INSTANTANEOUS PEAK FLOW			4.3
INSTANTANEOUS PEAK STAGE			1.11
INSTANTANEOUS LOW FLOW			1.1
ANNUAL RUNOFF (AC-FT)	3450	2210	2550
10 PERCENT EXCEEDS	5.1	3.4	3.5
50 PERCENT EXCEEDS	3.4	3.1	3.0
90 PERCENT EXCEEDS	3.1	2.4	2.6

a-In gage well, 4.23 ft from floodmarks.

b-From rating curve extended above 80 ft³/s on basis of slope-area measurements at gage heights 3.13 ft and 3.90.

GILA RIVER BASIN

09444000 SAN FRANCISCO RIVER NEAR GLENWOOD, NM

LOCATION.--LAT 33°19'48", LONG 108°32'47", IN NEWNM SEC.23, T.12 S., R.20 W., CATRON COUNTY, HYDROLOGIC UNIT

Creek, and at mile 311.3.

DRAINAGE AREA.--1,653 mi².

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1213: 1931, 1934, 1936-37, 1940-42, 1943-44(M), 1945-47. WSP 1283: Drainage area. WDR NM-78-1: 1977. WDR NM-79-1: 1973, 1975-77 (P).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 4,560 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Feb. 15, 1934, at site 4.5 mi upstream at datum 98.82 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 2,000 acres upstream from station. Gage height and rain gage satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods probably occurred Jan. 19 and Oct. 14, 1916 when discharges of 60,000 ft³/s or greater were computed for station at Clifton, AZ. On Nov. 26, 1905, a peak of 25,000 ft³/s was measured (by float-area method) at station at Alma (about 12 mi upstream, drainage area, 1,560 mi²); a similar measurement of 21,000 ft³/s was made at the Alma station for peak of Dec. 3, 1906.DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	46	48	60	47	52	71	40	28	19	24	39
2	30	44	48	58	47	52	71	44	30	21	25	33
3	32	43	46	55	45	52	70	40	26	18	23	37
4	32	40	45	52	46	52	66	38	26	21	26	72
5	30	40	45	54	46	54	60	34	26	22	20	126
6	31	41	44	54	47	56	58	36	26	23	17	82
7	36	44	45	54	49	62	52	36	26	20	34	62
8	37	46	45	54	65	66	43	34	27	18	28	64
9	40	46	45	54	75	74	40	32	30	20	27	64
10	39	43	45	53	85	78	43	31	30	19	23	36
11	38	44	48	51	73	78	46	31	25	18	25	29
12	38	50	59	50	68	75	45	31	26	19	26	31
13	39	54	61	49	66	71	44	30	31	23	27	33
14	36	57	61	48	64	70	44	34	29	22	27	31
15	34	64	61	50	62	67	43	37	27	19	34	29
16	34	67	60	52	59	65	40	35	28	16	31	27
17	40	63	59	46	57	62	38	33	27	17	34	27
18	47	63	57	47	57	61	35	28	26	24	36	27
19	53	62	57	47	59	62	32	28	25	40	33	25
20	53	60	57	45	80	84	32	30	26	29	25	24
21	49	57	59	41	80	265	32	32	35	27	24	25
22	49	57	58	42	75	266	35	27	31	30	23	25
23	49	57	55	40	69	200	35	28	32	26	24	23
24	49	57	54	41	65	157	34	29	30	24	23	23
25	47	57	51	42	62	130	33	30	26	33	24	22
26	44	58	52	42	58	115	37	32	23	26	25	26
27	44	59	53	43	57	105	37	31	22	24	27	24
28	44	57	56	47	54	98	37	30	21	24	39	22
29	44	55	59	50	---	92	35	32	23	23	36	21
30	44	49	60	51	---	89	37	32	23	24	32	22
31	44	---	60	50	---	80	---	31	---	26	41	---
TOTAL	1255	1580	1653	1522	1717	2890	1325	1016	811	715	863	1131
MEAN	40.5	52.7	53.3	49.1	61.3	93.2	44.2	32.8	27.0	23.1	27.8	37.7
MAX	53	67	61	60	85	266	71	44	35	40	41	126
MIN	29	40	44	40	45	52	32	27	21	16	17	21
AC-FT	2490	3130	3280	3020	3410	5730	2630	2020	1610	1420	1710	2240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1994, BY WATER YEAR (WY)

	MEAN	87.6	45.0	86.8	100	128	199	148	78.8	29.1	38.0	78.0	60.0
MAX	2026	520	1068	1568	1034	1036	1049	593	146	108	392	368	
(WY)	1984	1979	1979	1993	1993	1985	1973	1973	1992	1930	1957	1988	
MIN	9.77	10.8	12.9	13.5	14.9	11.3	10.2	8.65	5.70	13.2	13.7	7.66	
(WY)	1966	1957	1954	1956	1956	1959	1957	1956	1956	1963	1960	1956	

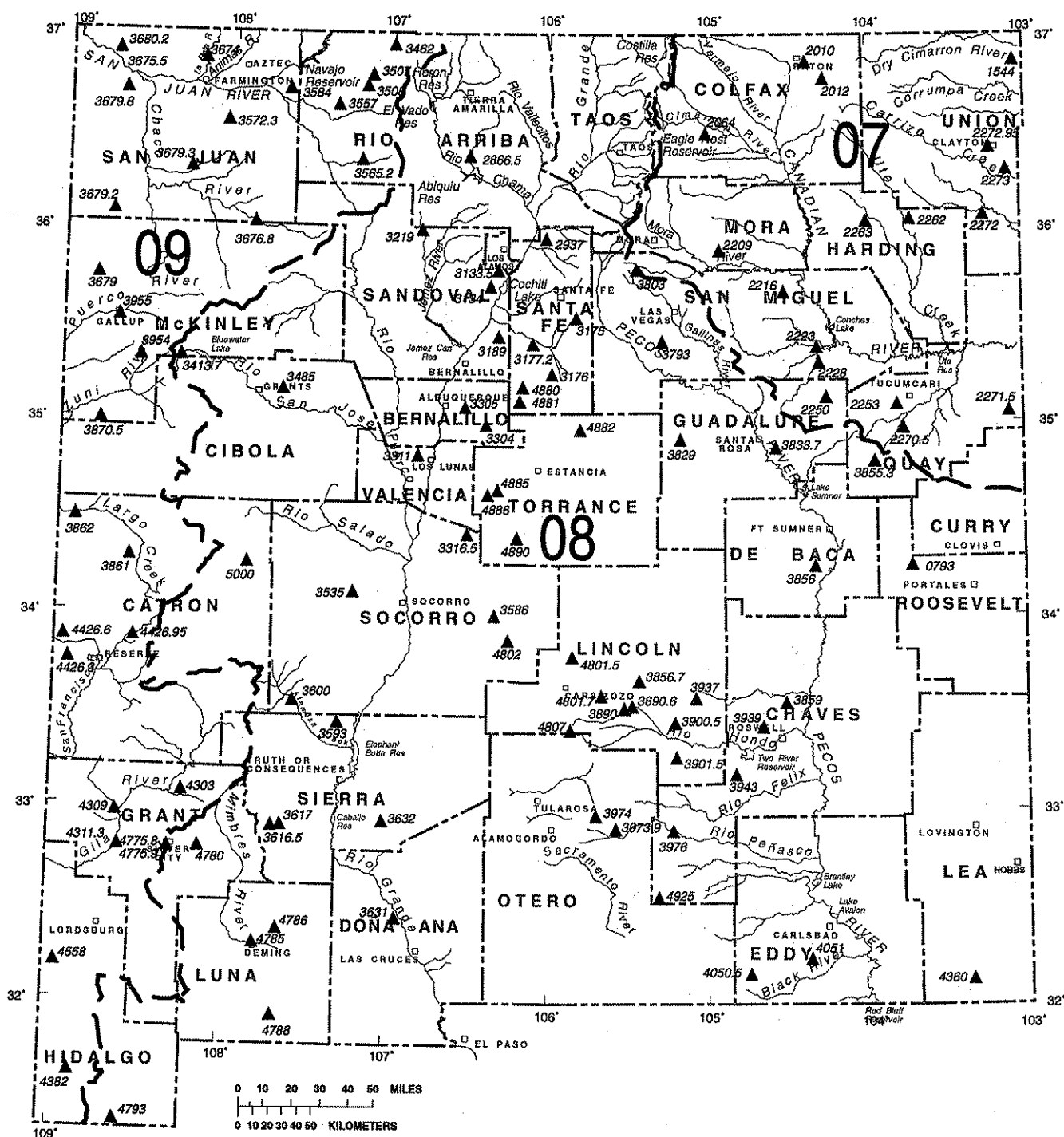
SUMMARY STATISTICS

FOR 1993 CALENDAR YEAR

FOR 1994 WATER YEAR

WATER YEARS 1928 - 1994

ANNUAL TOTAL	122449	16478	
ANNUAL MEAN	335	45.1	
HIGHEST ANNUAL MEAN			89.8
LOWEST ANNUAL MEAN			351
HIGHEST DAILY MEAN	7630	Feb 20	27500
LOWEST DAILY MEAN	18	Jul 25	13.9
ANNUAL SEVEN-DAY MINIMUM	19	Jul 23	2.5
INSTANTANEOUS PEAK FLOW			3.9
INSTANTANEOUS PEAK STAGE			37100
INSTANTANEOUS LOW FLOW			2.17
ANNUAL RUNOFF (AC-FT)	242900	32680	18.15
10 PERCENT EXCEEDS	660	66	1.5
50 PERCENT EXCEEDS	59	41	
90 PERCENT EXCEEDS	25	24	



U.S. Geological Survey base

EXPLANATION

07 LOWER MISSISSIPPI RIVER BASIN NUMBER

08 WESTERN GULF OF MEXICO BASIN NUMBER

09 COLORADO RIVER BASIN NUMBER

— RIVER BASIN BOUNDARY

▲ CREST-STAGE STATION AND ABBREVIATED NUMBER--
Complete national station number is: 08 405100

Basin number + station number

Figure 7.--Location of partial-record stations.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in floodflow analyses. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are collected in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in the second table.

Crest-stage partial-record stations

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device that will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each year is given. Information on some lower floods may have been obtained, and discharge measurements made for purposes of establishing the stage-discharge relation, but these are not published herein. The year given in the period of record column represents the first year of a period extending through the current year unless otherwise noted. For some stations, publication of discharge is delayed pending definition of stage-discharge relationship. Published maximums are for water years.

Annual maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1994 maximum		Period of record maximum	
			Date	Gage height (ft)	Date	Gage height (ft)
				Dis- charge (ft ³ /s)		Dis- charge (ft ³ /s)
ARKANSAS RIVER BASIN						
Carrizozo Creek near Kenton, OK. (07154400)	Lat 36°52'55", long 103°01'05", Union County, Hydrologic Unit 11040001, under bridge on New Mexico State Highway 406; 4 mi southwest of Kenton, OK. Drainage area is 111 mi ² .	1953-	05-10-94	3.27	07-06-58	12.22
				620		15,600
Raton Creek at Raton. (07201000)	Lat 36°55'38", long 104°26'22", Colfax County, Hydrologic Unit 11080001, 60 ft upstream from bridge on State Highway 72 at Raton. Drainage area is 14.4 mi ² .	1953-	08-10-94	1.04	06-17-65	14.80
				163		3,990
Chicorica Creek tributary near Raton. (07201200)	Lat 36°49'41", long 104°19'58", Colfax County, Hydrologic Unit 11080001, upstream from culvert on U.S. Highway 64-87, 7.7 mi southeast of Raton. Drainage area is 5.18 mi ² .	1971-	- -94	---	(k)	08-05-82
						18.30
						1,340
Clear Creek near Ute Park. (07206400)	Lat 36°31'35", long 105°10'30", Colfax County, Hydrologic Unit 11080002, 0.25 mi upstream from mouth, and 4 mi southwest of Ute Park. Drainage area is 7.44 mi ² .	1962-67* 1968-	07-24-94	3.00	06-18-65	3.05
				150		151
Dog Creek near Shoemaker. (07220900)	Lat 36°49'32", long 104°53'28", Mora County, Hydrologic Unit 11080004, 0.5 mi upstream from Valmora-Shoemaker road, and 1.8 mi northwest of Shoemaker. Drainage area is 18.4 mi ² .	1954-	08-04-94	6.87	07-08-82	14.90
				250		7,180
Lagartija Creek tributary near Sanchez. (07221600)	Lat 35°39'21", long 104°24'57", San Miguel County, Hydrologic Unit 11080003, at bridge on State Highway 419; 0.9 mi northeast of Sanchez. Drainage area is 1.19 mi ² .	1961-	05-11-94	5.83	05-11-94	5.83
				1,500		1,500
Trementina Creek at Trementina. (07222300)	Lat 35°29'28", long 104°24'59", San Miguel County, Hydrologic Unit 11080005, at bridge on State Highway 419; at Trementina. Drainage area is 63.9 mi ² .	1959-	05-11-94	3.38	09-11-65	12.00
				330		14,100

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1994 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
ARKANSAS RIVER BASIN -- Continued								
Garita Creek tributary near Variadero. (07222800)	Lat 35°20'10", long 104°21'50", San Miguel County, Hydrologic Unit 11080005, 1.2 mi upstream from mouth, and 6.3 mi southeast of Variadero. Drainage area is 23.0 mi2.	1971-	05-27-94	7.16	308	08-29-77	17.37	7,020
Pajarito Creek at Newkirk. (07225000)	Lat 35°04'20", long 104°14'50", Guadalupe County, Hydrologic Unit 11080006, downstream side of bridge on old U.S. Highway 66, 1 mi east of Newkirk. Drainage area is 55.0 mi2.	1954-	06-10-94	2.27	386	09-16-62	8.09	3,550
Bluewater Creek near Tucumcari. (07225300)	Lat 35°08'31", long 103°47'32", Quay County, Hydrologic Unit 11080006, in Tucumcari Metropolitan Park, 1,600 ft north of the park's southern boundary, and 4.8 mi southwest of Tucumcari. Drainage area is 15.2 mi2.	1971-	05-11-94	9.88	1,170	08-11-81	12.71	2,350
Bueyeros Creek at Bueyeros. (07226200)	Lat 35°58'10", long 103°41'05", in E1/2 sec.7, T.20 N., R.31 E., Harding County, Hydrologic Unit 11080007, on right upstream wingwall of culvert on State Road 102 at Bueyeros. Drainage area is 33.4 mi2.	1957-	05-10-94	5.10	990	07-17-72	12.77	5,800
Carriazo Creek near Roy. (07226300)	Lat 36°02'58", long 103°57'48", Harding County, Hydrologic Unit 11080007, 800 ft down- stream from State Highway 120, and 15 mi northeast of Roy. Drainage area is a68 mi2.	1954-	05-19-94	4.81	638	08-11-81	7.11	1,800
Plaza Larga Creek tributary near Ragland. (07227050)	Lat 34°48'29", long 103°45'35", Quay County, Hydrologic Unit 11080008, at culvert on State Highway 209, 1.2 mi northwest of Ragland. Drainage area is 0.36 mi2.	1952-	05-10-94	5.96	108	07-16-58	12.70	1,170
Arroyo del Puerto near Endee. (07227150)	Lat 35°03'32", long 103°06'04", Quay County, Hydrologic Unit 11090101, at bridge on State Highway 93, 5.4 mi south of Endee. Drainage area is a25 mi2.	1961-	05-10-94	1.98	0.80	08-10-91	9.19	1,450
Tramperos Creek near Stead. (07227200)	Lat 36°04'15", long 103°12'10", in NW1/4 sec.10, T.21 N., R.35 E., Union County, Hydrologic Unit 11090102, at bridge on State Highway 402, 2.1 mi south of Stead, and 26 mi south of Clayton. Drainage area is a556 mi2.	1966-73* 1974-	07-26-94	6.44	703	10-17-65	16.5	12,300
Sand Draw tributary near Clayton. (07227295)	Lat 36°23'20", long 103°19'05", Union County, Hydrologic Unit 11090103, upstream from culvert on U.S. Highway 56, 8 mi southwest of Clayton. Drainage area is 1.25 mi2.	1952-	08-03-94	4.46	183	07-16-56	7.33	388
Sand Draw near Clayton. (07227300)	Lat 36°20'30", long 103°11'30", Union County, Hydrologic Unit 11090103, on downstream side of bridge on State Highway 402, 7.5 mi south of Clayton. Drainage area is a42 mi2.	1953-	- -94	---	(k)	08-03-91	3.02	82

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
Annual maximum discharge at crest-stage partial-record stations

Station name and number	Location and elevation	Water year 1994 maximum			Period of record maximum		
		Date	Gage height (ft)	Dis- charge (cfs)	Date	Gage height (ft)	Dis- charge (cfs)
BRAZOS RIVER BASIN							
Blackwater Draw tributary near Floyd. (08079300)	Lat 34°14'52", long 103°44'51", Roosevelt County, Hydrologic Unit 12050001, 0.5 mi down- stream from section road, and 10 mi west of Floyd. Drainage area is 110 mi2.	1963-	- -94	---	(k)	- -69	5.96 3,400
Running Water Draw near Clovis. (08080600)	Lat 34°31'55", long 103°12'05", Curry County, Hydrologic Unit 12050005, 0.25 mi upstream from State Highway 209; and 8 mi north of Clovis. Drainage area is 109 mi2.	1953-56 1957-64* 1965-	08-02-94	6.32 4,220		07-24-72	--- 8,000
RIO GRANDE BASIN							
Canjilon Creek above Abiquiu Reservoir. (08286650)	Lat 36°18'55", long 106°29'05", Rio Arriba County, Hydrologic Unit 13020102, in Piedra Lumbre Grant, 300 ft upstream from bridge on U.S. Highway 84, 0.2 mi northwest of entrance to Ghost Ranch, and about 12 mi northwest of Abiquiu. Drainage area is 144 mi2.	1965-	04-10-94	2.97 264		07-23-70	8.10 2,450
Arroyo Seco tributary near Pojoaque. (08293700)	Lat 35°56'33", long 106°01'12", Santa Fe County, Hydrologic Unit 13020101, upstream from culvert on U.S. Highway 84-285, 3.5 mi north of Pojoaque. Drainage area is 0.72 mi2.	1971-	08-31-94	7.43 190		07-28-74	10.62 508
Bland Canyon near Cochiti Pueblo. (08313400)	Lat 35°42'11", long 106°24'56", Sandoval County, Hydrologic Unit 13020201, 200 ft south of Forest Service Road, 0.3 mi inside Santa Fe National Forest, and 7.5 mi north of Cochiti Pueblo. Drainage area is 7.57 mi2.	1962-	05-25-94	1.63 14		08-10-85	3.54 243
Galisteo Creek at Canoncito. (08317500)	Lat 35°33'02", long 105°49'20", Santa Fe County, Hydrologic Unit 13020201, upstream from railroad bridge, 0.2 mi upstream from Apache Canyon at Canoncito. Drainage area is 11.3 mi2.	1955-56 1959-	- -94	---	(k)	08-23-66	5.35 2,000
San Cristobal Arroyo near Galisteo. (08317600)	Lat 35°22'55", long 105°51'05", Santa Fe County, Hydrologic Unit 13020201, at bridge on U.S. Highway 285, 5.5 mi east of Galisteo. Drainage area is 116 mi2.	1955-	05-26-94	5.78 (+)		08-17-61	13.34 9,500
Canada de la Cueva near Galisteo. (08317720)	Lat 35°26'13", long 106°00'45", Santa Fe County, Hydrologic Unit 13020201, 6.4 mi east of Carrillos, and 4.8 mi northwest of Galisteo. Drainage area is 1.81 mi2.	1970-	05-25-94	3.54 230		09-18-82	4.78 919

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
Annual maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1994 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
RIO GRANDE BASIN -- Continued								
San Pedro Creek near Golden. (08318900)	Lat 35°13'45", long 106°18'00", Sandoval County, Hydrologic Unit 13020201, 1 mi down- stream from bridge on State Highway 14, and 5.5 mi southwest of Golden. Drainage area is 45.2 mi2.	1953-	05-26-94	0.92	510	09-24-55	12.45	10,800
Rio de las Vacas near Senorita. (08321900)	Lat 35°59'35", long 106°47'45", Sandoval County, Hydrologic Unit 13020204, at bridge on side road, 0.1 mi south of State Highway 126, and 6.5 mi east of Senorita. Drainage area is 26.8 mi2.	1957-	08-15-94	3.63	220	05-23-58	5.05	590
Juan Toro Canyon near Miera. (08330400)	Lat 35°00'57", long 106°20'14", Bernalillo County, Hydrologic Unit 13020203, 150 ft east of State Highway 337, 1 mi south- east of Cedro, and 4.5 mi northwest of Miera. Drainage area is 1.57 mi2.	1959-	05-26-94	1.22	34	07-20-71	1.33	44
Tijeras Arroyo at Albuquerque. (08330500)	Lat 35°03'40", long 106°28'40", Bernalillo County, Hydrologic Unit 13020203, 300 ft south of old U.S. Highway 66, and 0.4 mi southeast of city limits of Albuquerque. Drainage area is 75.3 mi2.	1943-48* 1958-	05-25-94	3.33	1,800	06-24-67	6.85	6,500
Belen Highline Canal tributary near Los Lunas. (08331100)	Lat 30°49'20", long 106°49'10", Valencia County, Hydrologic Unit 13020203, upstream from culvert on State Highway 6, 5.0 mi west of Los Lunas. Drainage area is 0.16 mi2.	1952-53 1955-	08-15-94	7.30	480	07-11-65	9.52	754
Canada Montoso near Scholle. (08331650)	Lat 34°23'11", long 106°28'37", Socorro County, Hydrologic Unit 13020203, 130 ft upstream from dip on abandoned highway, 500 ft upstream from bridge on U.S. Highway 60, and 3.6 mi southwest of Scholle. Drainage area is a35 mi2.	1961-	08-15-94	4.70	2,150	08-09-67	7.02	4,700
Pine Canyon near Thoreau. (08341370)	Lat 35°18'34", long 108°10'14", McKinley County, Hydrologic Unit 13020207, about 1 mi southwest of the north end of Bluewater Lake, and about 7 mi southeast of Thoreau. Drainage area is 6.09 mi2.	1969-	06-19-94	1.75	12	08-27-93	3.56	195
Encinal Creek near Casa Blanca. (08348500)	Lat 35°08'35", long 107°27'55", Cibola County, Hydrologic Unit 13020207, 1.8 mi north of village of Encinal, and 6.8 mi north of Casa Blanca. Drainage area is 6.19 mi2.	1937-39* 1959-	03-08-94	1.62	17	09-09-67	11.50	4,330
La Jencia Creek near Magdalena. (08353500)	Lat 34°09'45", long 107°12'35", Socorro County, Hydrologic Unit 13020209, 3.5 mi north- east of Magdalena. Drainage area is 195 mi2.	1957-	08-15-94	1.32	330	09- -62	10.85	4,830
Chupadera Wash tributary at Bingham. (08358600)	Lat 33°51'39", long 106°22'06", Socorro County, Hydrologic Unit 13020210, 75 ft upstream from culvert on U.S. Highway 380, and 0.1 mi west of Bingham. Drainage area is 1.29 mi2.	1961-	08-15-94	1.23	46	09-10-80	4.75	620

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations

Station name and location	Location and description	Period of record	Water year 1994 maximum			Period of record maximum		
			Date	height	discharge	Date	height	discharge
RIO GRANDE BASIN -- Continued								
San Jose Arroyo near Monticello. (08359300)	Lat 33°28'05", long 107°14'30", Sierra County, Hydrologic Unit 13020211, at head of box canyon just downstream from major tributary, 800 ft downstream from culvert on old U.S. Highway 85, and 13 mi northeast of Monticello. Drainage area is 26.9 mi2.	1959-	- -94	<1.52	<914	06-10-88	6.09	5,070
Alamosa Creek near Monticello. (08360000)	Lat 33°34'09", long 107°35'33", Socorro County, Hydrologic Unit 13020211, on left bank at Alamosa damsite and downstream from Old Fort Ojo Caliente, just downstream from Wildhorse Creek, 15 mi northwest of Monticello. Drainage area is 403 mi2.	1931-42* 1956-58 1958-71* 1973-	08-11-94	2.87	130	08-13-64	14.04	10,800
Percha Creek near Kingston. (08361650)	Lat 32°55'05", long 107°38'55", Sierra County, Hydrologic Unit 13030101, at bridge on State Highway 152, 3.3 mi east of Kingston. Drainage area is 21.5 mi2.	1953-	- -94	<2.76	<240	09-03-72	15.80	3,740
Percha Creek near Hillsboro. (08361700)	Lat 32°54'55", long 107°36'05", Sierra County, Hydrologic Unit 13030101, 150 ft south of State Highway 152, and 2 mi west of Hillsboro. Drainage area is 35.4 mi2.	1957-78 1980-	- -94	<3.66	<750	09-03-72	11.70	12,200
Rio Grande tributary near Radium Springs. (08363100)	Lat 32°30'05", long 106°57'05", Dona Ana County, Hydrologic Unit 13030102, upstream from culvert on State Highway 185, 120 ft upstream from mouth, and 1.4 mi west of Radium Springs. Drainage area is 0.40 mi2.	1955-	- -94 07-16-93	<3.94(h) 5.13(h)	<37 177(h)	08-24-59	8.20	332
Aleman Draw at Aleman. (08363200)	Lat 33°00'00", long 107°00'20", Sierra County, Hydrologic Unit 13030103, on Santa Fe Railroad bridge, 140 ft upstream from dip on Engle-Rincon road, and 0.26 mi west of Aleman. Drainage area is 25.5 mi2.	1959-	05-27-94	1.62	86	08-07-67	19.10	16,400
Tecolote Creek at Tecolote. (08363300)	Lat 35°27'20", long 105°16'55", San Miguel County, Hydrologic Unit 13060001, on bridge on old U.S. Highway 85 at Tecolote. Drainage area is 122 mi2.	1954-	05-26-94	6.73	1,170	08-17-61	12.92	12,300
Sandoval Canyon at Gallinas. (08380300)	Lat 35°41'19", long 105°21'17", San Miguel County, Hydrologic Unit 13060001, about 500 ft upstream from culvert on State Highway 65, at north edge of Gallinas. Drainage area is 7.6 mi2.	1957 1961-	06-03-94	2.49	330	08-01-66	5.26	2,530
Pecos River tributary near Pintada. (08382900)	Lat 34°58'06", long 105°05'38", Guadalupe County, Hydrologic Unit 13060001, in Anton Chico Grant, 1,500 ft south of Interstate Highway 40, and 6.8 mi north of Pintada. Drainage area is 16.0 mi2.	1961-	05-26-94	0.69	7.0	07-19-71	4.80	6,600

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
Annual maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1994 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
RIO GRANDE BASIN -- Continued								
Pecos River tributary near Puerto de Luna. (08383370)	Lat 34°52'35", long 104°38'16", Guadalupe County, Hydrologic Unit 13060001, 25 ft upstream from culvert on State Highway 91, and 3.1 mi north of Puerto de Luna. Drainage area is 0.37 mi ² .	1961-	08-22-94	7.47	123	08-23-87	15.89	2,000
Alamosa Creek tributary near Jordan. (08385530)	Lat 34°47'44", long 103°58'07", Quay County, Hydrologic Unit 13060004, 500 ft upstream from dip on State Highway 156, and 6.9 mi west of Jordan. Drainage area is 9.71 mi ² .	1962-	05-10-94	3.44	183	07-11-72	6.86	2,850
Yeso Creek near Fort Sumner. (08385600)	Lat 34°16'32", long 104°17'28", De Baca County, Hydrologic Unit 13060003, at abandoned bridge 1 mi downstream from State Highway 20, and 14.5 mi south of Fort Sumner. Drainage area is 242 mi ² .	1937-	09-03-94	2.96	1,650	10-07-54	11.60	14,800
Aragon Creek tributary near Encinoso. (08385670)	Lat 33°43'35", long 105°31'43", Lincoln County, Hydrologic Unit 13060005, 0.3 mi upstream from wooden bridge on dirt road, 1.2 mi north of State Highway 246, and 4.3 mi west of Encinoso. Drainage area is 6.07 mi ² .	1961-	08-01-94	4.03	615	09-06-61	5.10	1,610
Salt Creek tributary near Roswell. (08385900)	Lat 33°32'22", long 104°31'08", Chavez County, Hydrologic Unit 13060005, at culvert on U.S. Highway 285, 4.7 mi north of junction of U.S. Highways 70 and 285, and 10 mi north of Roswell. Drainage area is 0.04 mi ² .	1952-	07-08-94	2.46	48	08-11-77	3.75	73
Rio Bonito near Fort Stanton. (08389000)	Lat 33°31'05", long 105°29'10", Lincoln County, Hydrologic Unit 13060008, at bridge on U.S. Highway 380, 2.5 mi northeast of Fort Stanton. Drainage area is 85 mi ² .	1955-	06-22-94	4.41	480	05-17-79	7.20	4,100
Rio Bonito tributary near Fort Stanton. (08389060)	Lat 33°31'15", long 105°28'05", Lincoln County, Hydrologic Unit 13060008, at culvert on U.S. Highway 380, 150 ft upstream from mouth, and 3.5 mi northeast of Fort Stanton. Drainage area is 0.72 mi ² .	1955-	- -94	---	(k)	09-30-82	6.40	512
Rio Hondo tributary at Tinnie. (08390050)	Lat 33°22'36", long 105°13'01", Lincoln County, Hydrologic Unit 13060008, upstream from culvert on U.S. Highway 70-380, 0.5 mi east of junction of U.S. Highway 70-380 and State Highway 368, and at Tinnie. Drainage area is 0.23 mi ² .	1971-	08-20-94	3.32	14	09-07-72	10.80	420
Gallo Canyon near Picacho. (08390150)	Lat 33°17'23", long 105°10'49", Lincoln County, Hydrologic Unit 13060009, 500 ft east of road, 5 mi south of Arabela. Drainage area is 1.32 mi ² .	1962-	08-20-94	3.44	31	09-10-73	9.19	2,400

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
Annual maximum discharge at crest-stage partial-record stations

Station name and number	Location and description	Period of record	Water year 1994 maximum			Period of record maximum		
			Date	Gage height	Dis- charge	Date	Gage height	Dis- charge
RIO GRANDE BASIN -- Continued								
Pancho Canyon near Arabela. (08393700)	Lat 33°30'36", long 105°11'38", Lincoln County, Hydrologic Unit 13060008, 200 ft down- stream from dip on State Highway 368, and 5.6 mi south of Arabela. Drainage area is 16.7 mi2.	1962-	- -94	<2.21	<450	08-10-65	5.49	1,700
Eight Mile Draw near Roswell. (08393900)	Lat 33°24'05", long 104°37'54", Chavez County, Hydrologic Unit 13060008, 6.5 mi west of Roswell. Drainage area is 397 mi2.	1941- 1952-	- -94	<12.42	<200	07-13-91	17.80	10,300
Twin Butte Canyon tributary near Roswell. (08394300)	Lat 33°10'34", long 104°51'30", Chavez County, Hydrologic Unit 13060009, about 0.1 mi upstream from mouth, and about 22 mi southwest of Roswell. Drainage area is 5.01 mi2.	1968-	08-20-94 07-14-93 05-22-92	2.78 2.55 3.06	76 63(h) 150(h)	06-25-86	7.75	3,600
Curtis Canyon near Mayhill. (08397390)	Lat 32°51'52", long 105°31'05", Otero County, Hydrologic Unit 13060010, 0.26 mi upstream from SCS dam, 0.4 mi west of State Highway 130, and 2.5 mi southwest of Mayhill. Drainage area is 10.3 mi2.	1959-	- -94	1.03	(+)	08-23-87	0.58	23
Hyatt Canyon near Cloudcroft. (08397400)	Lat 32°56'06", long 105°37'37", Otero County, Hydrologic Unit 13060010, 0.5 mi south of U.S. Highway 82, and 7 mi east of Cloudcroft. Drainage area is 3.08 mi2.	1953-	- -94	<1.32	<10	10-23-92	1.63	88
Rio Penasco near Dunken. (08397600)	Lat 33°52'55", long 105°10'40", Chavez County, Hydrologic Unit 13060010, on bridge on State Highway 24, 5 mi north of Dunken. Drainage area is 583 mi2.	1952-56 1956-62* 1963-	08-20-94	7.12	410	07-06-58	13.36	10,200
Last Chance Canyon tributary near Carlsbad Caverns. (08405050)	Lat 32°17'30", long 104°36'20", Eddy County, Hydrologic Unit 13060011, upstream from culvert on State Highway 137, 0.1 mi north of road to Sitting Bull Falls, and 12.5 mi northwest of Carlsbad Caverns. Drainage area is 0.2 mi2.	1959-	05-24-94	1.97	51	08-23-66	7.77	683
Mosley Canyon near Whites City. (08405100)	Lat 32°15'27", long 104°22'43", Eddy County, Hydrologic Unit 13060011, 600 ft downstream from dip on Dark Canyon Road, and 5.5 mi north of Whites City. Drainage area is 14.6 mi2.	1959-	09-04-94	6.78	2,800	05-30-65	13.70	16,400
Antelope Draw near Jal. (08436000)	Lat 32°09'18", long 103°21'51", Lea County, Hydrologic Unit 13070007, 0.4 mi south of State Highway 128, and 10.7 mi west of Jal. Drainage area is 220 mi2.	1963-	07-30-94	4.85	530	07-30-94	4.85	530

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1994 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
MIMBRES BASIN								
Silva Creek at Silver City. (08477580)	Lat 32°46'41", long 108°16'41", Grant County, Hydrologic Unit 13030202, 190 ft upstream from Twelfth Street bridge in Silver City. Drainage area is 10.0 mi2.	1958-	07-17-94	1.93	120	08-11-60	6.01	2,670
Pinos Altos Creek at Silver City. (08477590)	Lat 32°46'52", long 108°16'04", Grant County, Hydrologic Unit 13030202, downstream from U.S. Highway 180 in Silver City. Drainage area is 4.63 mi2.	1958-	- -94	<0.78	<50	09-03-72	4.09	3,700
Cameron Creek at Central. (08478000)	Lat 32°47'38", long 108°08'58", Grant County, Hydrologic Unit 13030202, 0.5 mi upstream from culvert on U.S. Highway 180, at north edge of Central. Drainage area is 18.8 mi2.	1954-	- -94	<5.30	<1,450	08-28-59	7.30	2,200
Mimbres River at Deming. (08478500)	Lat 32°17'00", long 107°45'35", Luna County, Hydrologic Unit 13030202, culvert on U.S. Highway 180, at north end of Deming. Drainage area is 1,370 mi2.	1954-79 1983-	- -94	---	(k)	10-20-72	6.68	2,690
Mimbres basin tributary near Florida. (08478600)	Lat 32°21'30", long 107°37'30", Luna County, Hydrologic Unit 13030202, upstream from culvert on State Highway 26, and 5 mi southwest of Florida. Drainage area is 0.55 mi2.	1959-	- -94	---	(k)	06-14-91	4.74	480
Seventysix Draw tributary near Waterloo. (08478800)	Lat 31°56'34", long 107°44'38", Luna County, Hydrologic Unit 13030202, upstream from culvert on State Road 11, 3.9 mi southeast of Waterloo, and 7.9 mi north of Columbus. Drainage area is 0.2 mi2.	1967-	- -94	<1.26	<15	08-04-67	7.30	222
PLAYAS BASIN								
Deer Creek tributary near Antelope Wells. (08479300)	Lat 31°23'00", long 108°42'15", Hidalgo County, Hydrologic Unit 13030201, 0.1 mi downstream from dip on State Highway 81, 2.5 mi east of San Luis Pass, and 12 mi west of Antelope Wells. Drainage area is 4.3 mi2.	1959-	09-12-94	1.26	155	08-05-60	4.59	1,680
TULAROSA BASIN								
White Oaks Canyon near Carrizozo. (08480150)	Lat 33°43'51", long 105°50'11", Lincoln County, Hydrologic Unit 13050003, 100 ft upstream from culvert on U.S. Highway 54, 6 mi north of Carrizozo. Drainage area is 31 mi2.	1959- 1961-	08-01-94	7.75	3,400	07-26-59	14.30	7,690
Nogal Creek tributary near Nogal. (08480170)	Lat 33°34'54", long 105°41'10", Lincoln County, Hydrologic Unit 13050003, upstream from culvert on U.S. Highway 380, about 2.0 road mi west of Indian Divide, 7 mi northwest of Capitan, and 2 mi north of Nogal. Drainage area is 1.94 mi2.	1968-	- -94	<2.23	<1	08-10-77	8.45	655

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations

Station name number	Location drainage area	Period record	Water year 1994 maximum Gage (ft)	Dis- (ft ³ /s)	Period of record maximum Gage (ft)	Dis- (ft ³ /s)
TULAROSA BASIN -- Continued						
Taylor Canyon tributary near Bingham. (08480200)	Lat 33°48'11", long 106°12'00", Socorro County, Hydrologic Unit 13050003, 200 ft north of U.S. Highway 380, and 12 mi southeast of Bingham. Drainage area is 2.66 mi2.	1961-	- -94	---	(k)	08-12-61 2.39 551
Indian Creek near Three Rivers. (08480700)	Lat 33°22'10", long 105°53'25", Otero County, Hydrologic Unit 13050003, 150 ft upstream from diversion dam, and 12 mi east of Three Rivers. Drainage area is 6.8 mi2.	1956-58* 1959-	08-01-94	6.55	490	07-14-91 12.08 3,000
ESTANCIA BASIN						
Estancia Valley tributary at Cedar Grove. (08488000)	Lat 35°10'05", long 106°10'08", Santa Fe County, Hydrologic Unit 13050001, 50 ft upstream from culvert on State Highway 344, 0.1 mi south of Cedar Grove. Drainage area is 1.21 mi2.	1955 1961-	07-27-94	7.52	(+)	07-11-77 7.92 144
Juan Tomas Canyon near Edgewood. (08488100)	Lat 35°04'35", long 106°13'46", Santa Fe County, Hydrologic Unit 13050001, 140 ft upstream from culvert on Interstate Highway 40, 2.5 mi northwest of Edgewood. Drainage area is a20 mi2.	1962-	- -94	---	(k)	08-01-89 2.48 150
Osita Draw near Clines Corners. (08488200)	Lat 35°00'18", long 105°48'00", Torrance County, Hydrologic Unit 13050001, 100 ft upstream from culvert on Interstate Highway 40, 7.5 mi west of Clines Corners. Drainage area is a10 mi2.	1961-	08-31-94	4.97	1,170	06-09-69 7.41 2,000
Canon de Torreon at Torreon. (08488500)	Lat 34°43'20", long 106°17'50", Torrance County, Hydrologic Unit 13050001, at culvert on State Highway 55, in Torreon. Drainage area is 18.2 mi2.	1954-	- -94	<1.16	<40	08-09-67 4.23 4,310
Arroyo del Cuervo near Torreon. (08488600)	Lat 34°41'35", long 106°18'27", Torrance County, Hydrologic Unit 13050001, in Town of Torreon Grant, about 0.3 mi upstream from culvert on State Highway 55, and 2 mi south of Torreon. Drainage area is 11.8 mi2.	1969-	05-10-94	1.81	55	10-02-83 5.34 1,320
Big Draw near Mountainair. (08489000)	Lat 34°18'45", long 106°11'35", Torrance County, Hydrologic Unit 13050001, 0.25 mi upstream from culvert on State Highway 55, and 8.4 mi south- east of Mountainair. Drainage area is 4.06 mi2.	1953-	08-01-94	4.35	98	09-25-54 8.68 1,710
SALT BASIN						
Fleming Draw near Pinon. (08492500)	Lat 32°31'01", long 105°20'42", Otero County, Hydrologic Unit 13050004, 0.2 mi upstream from dip in ranch road, and 7.5 mi south of Pinon. Drainage area is 16.6 mi2.	1959-	- -94	<3.81	<450	- -69 8.75 5,800

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
Annual maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1994 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
SAN AGUSTIN PLAINS BASIN								
Swingle Canyon near Datil. (08500000)	Lat 34°11'17", long 107°53'55", Catron County, Hydrologic Unit 13020208, 0.3 mi upstream from U.S. Highway 60, and 4.3 mi northwest of Datil. Drainage area is 6.35 mi2.	1970-72 1976-	08-15-94	3.79	2.0	07-16-77	5.73	900
SAN JUAN RIVER BASIN								
Rio Amargo at Dulce. (09346200)	Lat 36°56'00", long 107°00'00", Rio Arriba County, Hydrologic Unit 14080101, under bridge on U.S. Highway 64, at Dulce. Drainage area is 168 mi2.	1956-	02-08-94	6.00	1,000	07-31-68	10.57	2,860
Ruben Canyon near Gobernador. (09350700)	Lat 36°44'26", long 107°14'33", Rio Arriba County, Hydrologic Unit 14080101, in Carson National Forest, upstream from culvert on U.S. Highway 64, and 6.5 mi east of Gobernador. Drainage area is 5.06 mi2.	1970-	02-08-94	4.28	52	08-17-88	5.89	380
Vaqueros Canyon near Gobernador. (09350800)	Lat 36°43'23", long 107°16'47", Rio Arriba County, Hydrologic Unit 14080101, 100 ft east of U.S. Highway 64, and 4.2 mi east of Gobernador. Drainage area is 60.5 mi2.	1956-	02-08-94	2.82	130	08-02-65	10.37	2,520
Gobernador Canyon near Gobernador. (09355700)	Lat 36°41'05", long 107°25'10", San Juan County, Hydrologic Unit 14080101, 0.2 mi south of U.S. Highway 64, and 4 mi southwest of Gobernador. Drainage area is 19.8 mi2.	1956-	02-05-94	1.16	136	08-06-63	9.30	3,450
Manzanares Canyon near Turley. (09356400)	Lat 36°44'15", long 107°42'15", San Juan County, Hydrologic Unit 14080101, 600 ft upstream from culvert on U.S. Highway 64, and 4.2 mi east of Turley. Drainage area is 3.20 mi2.	1956-	- -94	<1.47	<200	08-03-69	6.19	2,210
Burro Canyon near Lindrith. (09356520)	Lat 36°16'21", long 107°14'46", Rio Arriba County, Hydrologic Unit 14080103, upstream from culvert on State Highway 537, 11.5 mi west of Lindrith. Drainage area is 9.11 mi2.	1970-	- -94	<11.71	<35	06-29-81	10.87	725
West Draw near Farmington. (09357230)	Lat 36°35'24", long 108°11'03", San Juan County, Hydrologic Unit 14080101, 15 ft upstream from culvert on State Highway 371, 11 mi south of Farmington. Drainage area is 0.32 mi2.	1975-	09-12-94	3.18	29	07-26-76	4.61	74
La Plata River tributary near Farmington. (09367400)	Lat 36°47'10", long 108°13'31", San Juan County, Hydrologic Unit 14080105, about 700 ft upstream from culvert on State Highway 170, and 4.1 mi northwest of Farmington. Drainage area is 1.03 mi2.	1970-	09-12-94	1.99	18	03- -73	4.25	1,130
Stevens Arroyo near Kirtland. (09367550)	Lat 36°45'56", long 108°21'59", San Juan County, Hydrologic Unit 14080105, upstream from gravel road to Young's Lake, 0.6 mi north of El Paso Natural Gas, San Juan Plant, and 2.3 mi north of Kirtland. Drainage area is 4.52 mi2.	1970-	09-12-94	13.85	800	09-06-91	15.09	1,550

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations

Station name and location	Location and description	Period of record	Water year 1994 maximum			Period of record maximum		
			Date	Stage height	Dis- charge	Date	Stage height	Dis- charge
SAN JUAN RIVER BASIN -- Continued								
Chaco Wash at Chaco Culture National Monument. (09367680)	Lat 36°01'43", long 107°55'04", San Juan County, Hydrologic Unit 14080106, on downstream side of center bridge pier, 800 ft downstream from Fajada Wash, and 0.5 mi southwest of Chaco Culture National Historical Park Visitors Center. Drainage area is 578 mi2.	1976-90* 1991-	05-25-94	4.79	721	09-02-88	8.55	1,920
Black Springs Wash near Mexican Springs. (09367900)	Lat 35°45'40", long 108°49'00", McKinley County, Hydrologic Unit 14080106, 2.5 mi south of Mexican Springs, and 17 mi north of Gallup. Drainage area is 7.05 mi2.	1954-78 1979-82* 1983-	02-08-94	4.23	1,400	08-18-55		2,200
Coyote Wash tributary near Naschitti. (09367920)	Lat 36°05'56", long 108°41'48", San Juan County, Hydrologic Unit 14080106, on bridge on U.S. Highway 666, 2.4 mi north of Naschitti, and 39 mi north of Gallup. Drainage area is 12.0 mi2.	1967- - -94	<1.90		(+)	06-29-67	10.80	(+)
Hunter Wash at Bisti Trading Post. (09367930)	Lat 36°16'37", long 108°15'12", San Juan County, Hydrologic Unit 14080106, on right bank upstream from road crossing at Bisti Trading Post. Drainage area is 45.6 mi2.	1975-82* 1983-	09-03-94	3.91	580	08-19-76	6.22	1,570
Rattlesnake Arroyo near Shiprock. (09367980)	Lat 36°46'14", long 108°43'32", San Juan County, Hydrologic Unit 14080105, upstream from bridge on U.S. Highway 64, 0.8 mi west of Shiprock. Drainage area is	1980- 09-12-94	3.52		290	09-10-80	6.19	3,100
Malpais Arroyo near Shiprock. (09368020)	Lat 36°55'33", long 108°43'26", San Juan County, Hydrologic Unit 14080105, upstream from culvert on U.S. Highway 666, 8.3 mi north of Shiprock. Drainage area is	1980- - -94	<0.41		<16	09-13-93	2.44	295
LITTLE COLORADO RIVER BASIN								
Largo Creek near Quemado. (09386100)	Lat 34°19'25", long 108°31'40", Catron County, Hydrologic Unit 15020002, on downstream side of bridge on ranch road, 2.5 mi southwest of Quemado. Drainage area is 151 mi2.	1954- - -94	<1.64		(+)	08-06-54	4.70	1,320
Carrizo Wash near Salt Lake. (09386200)	Lat 34°30'39", long 109°01'35", Catron County, Hydrologic Unit 15020003, on left downstream wingwall of bridge, 1.3 mi east of New Mexico-Arizona State line, and 15 mi west of Salt Lake. Drainage area is 560 mi2.	1957- 09-03-94	3.95	1,350		1959-1994	---	(g)
Galestena Canyon tributary near Black Rock. (09387050)	Lat 34°58'45", long 108°40'00", McKinley County, Hydrologic Unit 15020004, 100 ft downstream from bridge on State Highway 36, and 10.5 mi southeast of Black Rock. Drainage area is 19 mi2.	1957- 09-03-94	1.94	68		09-05-70	6.40	660

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
Annual maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1994 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
LITTLE COLORADO RIVER BASIN -- Continued								
Milk Ranch Canyon near Fort Wingate. (09395400)	Lat 35°25'55", long 108°33'30", McKinley County, Hydrologic Unit 15020006, 0.5 mi downstream from culvert on secondary road between Fort Wingate and McGaffey, and 3 mi south of Fort Wingate. Drainage area is 14.0 mi2.	1949-	- -94	---	(k)	- -49	4.20	1,360
Puerco River at Gallup. (09395500)	Lat 35°31'45", long 108°44'41", McKinley County, Hydrologic Unit 15020006, near center of span on downstream side of Third St. bridge in Gallup. Drainage area is 558 mi2.	1940-46* 1957-77 1977-82* 1983-	09-03-94	4.57	480	07-17-72	15.30	12,000
GILA RIVER BASIN								
Copperas Canyon near Pinos Altos. (09430300)	Lat 33°04'42", long 108°12'14", Grant County, Hydrologic Unit 15040001, on east side of State Highway 15, and 15 mi north of Pinos Altos. Drainage area is 3.95 mi2.	1963-	- -94 02-09-93	<2.19 2.54(h)	<80 110	08-13-80	4.82	650
Duck Creek at Cliff. (09430900)	Lat 32°58'03", long 108°36'36", Grant County, Hydrologic Unit 15040002, at Cliff 100 ft downstream from bridge on State Highway 211, and 0.6 mi upstream from mouth. Drainage area is 228 mi2.	1957-	07-17-94	3.31	1,350	01-18-93	11.76	7,400
Mangas Creek near Cliff. (09431130)	Lat 32°51'39", long 108°34'01", Grant County, Hydrologic Unit 15040002, on right bank, about 0.5 mi upstream of U.S. Forest Service Road 806, in close proximity to Bill Evans Lake, 7 mi south of Cliff. Drainage area is	1986-	09-05-94	4.15	82	09-07-90	5.04	1,400
Animas Creek near Cloverdale. (09438200)	Lat 31°34'15", long 108°52'30", Hidalgo County, Hydrologic Unit 15040003, near head of small box canyon, 0.1 mi west of State Highway 338, and 11 mi north of Cloverdale. Drainage area is 157 mi2.	1959-	09-03-94	3.24	220	10-13-74	7.78	3,400
Mail Hollow near Luna. (09442630)	Lat 33°47'38", long 108°56'59", Catron County, Hydrologic Unit 15040004, 1,000 ft upstream from culvert on U.S. Highway 180, 2.3 mi south of Luna. Drainage area is 4.20 mi2.	1970-	09-03-94	3.24	80	10-02-83	4.35	264
Trout Creek at Luna. (09442660)	Lat 33°50'50", long 108°59'38", Catron County, Hydrologic Unit 15040004, 500 ft downstream from bridge on Luna-Red Hill road, and 2.6 mi north of Luna. Drainage area is 31.9 mi2.	1954-	09-03-94	2.10	220	10-02-83	4.93	2,790
Negro Canyon at Aragon. (09442695)	Lat 33°52'47", long 108°33'08", Catron County, Hydrologic Unit 15040004, upstream from culvert on State Highway 12, at west edge of Aragon. Drainage area is 9.62 mi2.	1958-	- -94	<0.70	<57	07-28-59	11.60	5,200

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
Annual maximum discharge at crest-stage partial-record stations

Station name number	Location and drainage area	Period of record	Water year 1994 maximum			Period of record maximum		
			Date	Gage height	Dis- charge	Date	height	charge

GILA RIVER BASIN -- Continued

Steins Creek at Steins. (09455800)	Lat 32°13'47", long 109°00'01", Hidalgo County, Hydrologic Unit 15040006, at culvert on Interstate Highway 10, and 0.9 mi west of Steins. Drainage area is 1.26 mi ² .	1959-	-	-94	---	(k)	09-03-65	4.80	317
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- < Less than.
- + Discharge not yet determined.
- * Operated as continuous-record gaging station.
- a Approximately.
- b Peak too low to register on gage.
- c Estimated.
- d From floodmark.
- e Gage height not determined.

- f Contributing area.
- g Discontinued at end of year.
- h Revised.
- j May not have been peak for year.
- k No evidence of any flow during water year.
- m No record.
- n Correction.

Measurements of streamflow at points other than gaging stations are given in the following table.

Discharge Measurements Made at Miscellaneous Sites during Water Year 1994

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
RIO GRANDE BASIN						
La Cienega Stream	Santa Fe River	Lat 35°34'35", long 106°05'45", in SW¼NE¼ sec. 33, T. 16 N., R. 8 E., Santa Fe County, Hydrologic Unit 13020201, 0.5 mi downstream from I-25 bridge, 1.8 mi northeast of Cienega School, 12.1 mi southwest of Santa Fe.	---	1986 1989 1991-	02-08-94 07-15-94 08-03-94	0.71 0.50 0.46
Lea Lake Drain 08394018	Pecos River	Lat 33°18'56", long 104°19'56", in SW¼SE¼SW¼ sec. 34, T. 11 S., R. 26 E., Chaves County, Hydrologic Unit 13060007, on downstream side of road crossing at Bottomless Lakes State Park near Roswell.	---	1976-	10-15-93 12-16-93 04-11-94 07-27-94	5.58 5.43 5.22 5.41
Blue Springs 08405450	Black River	Lat 32°11'07", long 104°16'50", in SW¼NE¼SW¼ sec. 27, T. 24 S., R. 26 E., Eddy County, Hydrologic Unit 13060011, upstream from all diversions, 5.5 mi east of Whites City.	---	1907 1919-20 1923 1935 1952-70 1974-	10-20-93 12-18-93 04-06-94 08-12-94	13 14 14 12
Castle Springs 08405490	Black River	Lat 32°11'59", long 104°15'13", in SW¼SW¼SW¼ sec. 24, T. 24 S., R. 26 E., Eddy County, Hydrologic Unit 13060011, upstream from mouth at Black River Village, 7.2 mi east of Whites City.	---	1975-	10-20-93 02-18-94 04-06-94 08-11-94	0.68 0.79 0.55 0.43
GILA RIVER BASIN						
Mangas Creek 09431100	Gila River	Lat 32°50'48", long 108°30'57", in NW¼NE¼ sec. 8, T. 17 S., R. 16 W., Grant County, Hydrologic Unit 15040002, 0.4 mi northwest of Mangas Springs.	177	1970-	04-06-94 05-31-94 06-13-94 09-15-94	3.22 4.33 4.17 4.47

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Water-quality partial-record stations and water-quality miscellaneous sites are surface-water locations where chemical-quality, biological, and/or sediment data are collected on a limited frequency over a short period of years or once only for use in hydrologic investigations. Continuous streamflow recording gages are not located at these stations or sites.

The projects or programs for which partial or miscellaneous water-quality data were collected were the Department of Interior's Investigation Water Quality Basins, the Water Quality Investigation of the Rio Grande, and the Investigation of Water-Quality in Storm Runoff from Metropolitan Albuquerque.

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE RIVER BASIN

08267400 RIO GRANDE ABOVE RIO HONDO AT DUNN BRIDGE, NM

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)
JUN 1994											
16...	1100	E1210	260	8.4	--	--	--	--	--	--	--
JUL											
01...	1100	618	300	8.1	23.0	17.0	604	7.6	100	107	0
AUG											
18...	1700	E212	314	8.1	25.0	27.0	600	8.0	129	115	0
28...	1245	E198	348	8.4	29.0	18.0	605	7.9	106	54	1
SEP											
12...	1200	--	290	8.1	23.5	16.0	605	8.2	105	--	--

DATE	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITRO- GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO- GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOS- PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	ALUM- INUM SED, SUS PERCENT (30221)	AN- TIMONY SED. SUSP. (UG/G) (29816)	ARSENIC SED. SUSP. (UG/G) (29818)	CADMIUM SED. SUSP. (UG/G) (29826)	CHRO- MIUM SED. SUSP. (UG/G) (29829)	COBALT SEDI- MENT SUSP. (UG/G) (35031)
JUN 1994											
16...	--	--	--	--	--	6.0	1	6	3	100	18
JUL											
01...	87	--	--	--	--	--	--	--	--	--	--
AUG											
18...	94	--	--	--	--	--	--	--	--	--	--
28...	46	--	--	--	--	--	--	--	--	--	--
SEP											
12...	--	<2.0	4.0	500	610	--	--	--	--	--	--

DATE	COPPER SED. SUSP. (UG/G) (29832)	IRON SEDI- MENT SUSP. PERCENT (30269)	LEAD SED. SUSP. (UG/G) (29836)	MAN- GANESE SED. SUSP. (UG/G) (29839)	MERCURY SED. SUSP. (UG/G) (29841)	NICKEL SED. SUSP. (UG/G) (29845)	SELE- NIUM SED. SUSP. (UG/G) (29847)	SILVER SED. SUSP. (UG/G) (29850)	TITA- NIUM SEDI- MENT SUSP. PERCENT (30317)	ZINC SED. SUSP. (UG/G) (29855)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
JUN 1994											
16...	55	3.3	79	2500	0.04	2500	1	<1	0.30	440	52
JUL											
01...	--	--	--	--	--	--	--	--	--	--	--
AUG											
18...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--

08261100 RIO GRANDE ABOVE SAN JUAN PUEBLO, NM

DATE	TIME	NITRO- GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO- GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN, NH4 + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOS- PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
SEP 1994					
26...	1040	<2.0	4.6	980	290

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

08313350 RITO DE LOS FRIJOLES IN BANDLIER NATIONAL MONUMENT, NM

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
OCT 1993										
21...	1330	0.89	112	8.4	12.0	8.5	618	9.2	97	35
NOV										
18...	1350	1.0	108	7.5	--	5.0	610	10.0	98	33
DEC										
14...	1400	1.2	103	7.8	2.5	0.0	608	11.2	96	31
JAN 1994										
12...	1215	1.0	102	7.3	4.5	0.0	616	14.3	121	31
FEB										
23...	1230	1.2	100	7.6	0.5	1.0	611	11.2	98	29
MAR										
23...	1510	1.7	99	8.0	15.5	9.5	605	8.4	93	29
APR										
21...	1315	3.2	104	7.8	--	14.0	612	7.9	96	30
MAY										
25...	0945	2.2	97	7.1	10.5	11.0	614	8.2	93	29
JUN										
09...	0945	1.3	112	8.0	14.5	11.0	613	8.8	99	35
JUL										
20...	1330	0.52	114	8.0	28.5	21.5	614	6.9	98	32
AUG										
02...	1000	1.4	102	7.6	19.5	17.0	615	8.0	103	--
08...	1200	0.91	112	8.0	23.5	21.5	615	7.5	106	34
SEP										
07...	1330	1.7	111	7.7	20.0	17.0	615	7.7	99	33

DATE	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LITY LAB (MG/L AS CACO3) (90410)
OCT 1993										
21...	0	8.9	3.0	11	0.8	--	60	0	49	52
NOV										
18...	0	8.5	2.9	10	0.8	2.1	61	0	50	51
DEC										
14...	0	8.1	2.7	10	0.8	1.3	59	0	49	50
JAN 1994										
12...	0	8.0	2.6	10	0.8	1.6	61	0	50	49
FEB										
23...	0	7.4	2.6	10	0.8	1.5	52	0	43	46
MAR										
23...	0	7.3	2.5	9.3	0.8	1.8	55	0	45	48
APR										
21...	0	7.9	2.6	8.9	0.7	1.9	50	0	41	42
MAY										
25...	0	7.4	2.5	7.4	0.6	1.8	48	0	39	41
JUN										
09...	0	8.9	3.0	10	0.7	2.0	56	0	46	48
JUL										
20...	0	8.3	2.7	10	0.8	2.0	59	0	49	51
AUG										
02...	--	--	--	--	--	--	52	--	43	--
08...	0	8.8	3.0	10	0.7	2.1	59	0	48	51
SEP										
07...	0	8.6	2.9	9.6	0.7	2.4	55	0	45	46

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

08212250 RTRD DE LAS CRISTALES EN EL RANCHO NACIONAL MONUMENTO, NM

DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)
OCT 1993										
21...	2.4	3.8	0.20	61	98	130	<0.010	0.092	0.030	--
NOV										
18...	2.2	2.6	0.20	60	114	119	<0.010	<0.050	<0.010	--
DEC										
14...	2.5	2.8	0.20	58	112	115	<0.010	<0.050	<0.010	--
JAN 1994										
12...	2.0	7.6	0.10	59	103	122	<0.010	0.110	<0.010	--
FEB										
23...	2.3	2.6	0.20	58	106	110	<0.010	<0.050	0.010	--
MAR										
23...	2.5	2.7	0.20	55	112	109	<0.010	<0.050	0.010	--
APR										
21...	2.9	4.7	0.10	54	120	108	<0.010	<0.050	<0.010	--
MAY										
25...	2.3	5.5	0.10	46	103	97	<0.010	0.055	0.040	0.16
JUN										
09...	2.6	5.4	0.10	60	118	120	<0.010	<0.050	0.020	--
JUL										
20...	1.9	4.1	0.20	60	122	118	<0.010	<0.050	0.020	--
AUG										
02...	--	--	--	--	--	--	--	--	--	--
08...	1.7	4.2	0.20	64	119	123	<0.010	<0.050	0.020	--
SEP										
07...	2.2	5.6	0.20	59	115	118	--	--	--	--

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 1993										
21...	<0.20	<0.20	<0.010	<0.010	<0.010	97	9	34	0.08	48
NOV										
18...	<0.20	<0.20	0.020	0.010	0.020	94	10	--	--	--
DEC										
14...	<0.20	<0.20	<0.010	<0.010	0.010	93	9	24	0.08	69
JAN 1994										
12...	<0.20	<0.20	0.030	0.020	0.030	73	8	11	0.03	--
FEB										
23...	<0.20	<0.20	0.030	0.020	0.010	100	7	18	0.06	61
MAR										
23...	<0.20	<0.20	0.020	0.010	0.010	120	7	14	0.06	67
APR										
21...	<0.20	<0.20	0.030	0.030	0.020	220	9	22	0.19	75
MAY										
25...	0.60	0.20	0.120	0.050	0.050	110	12	44	0.26	--
JUN										
09...	0.30	<0.20	0.060	0.030	0.040	140	9	20	0.07	67
JUL										
20...	0.40	<0.20	0.080	0.030	0.030	100	9	30	0.04	--
AUG										
02...	--	--	--	--	--	--	--	--	--	--
08...	<0.20	<0.20	0.060	0.040	0.030	120	7	16	0.04	--
SEP										
07...	--	--	--	--	--	180	9	15	0.07	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

08329800 ARROYO DEL EMBUDO INLET TO FLOODWAY CHANNEL AT ALBUQUERQUE, NM

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREP-TOCOCCHI, FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
DEC 1993													
08...	1330	0.52	412	8.5	12.5	6.5	632	--	K5	730	--	--	
JUN 1994													
29...	0945	0.76	414	9.2	29.5	24.5	635	26	K1200	80	110	36	
JUL													
20...	0845	E1.0	502	8.8	24.0	22.5	636	77	K6600	1700	150	51	
SEP													
03...	1015	E0.50	398	9.8	24.5	22.5	636	30	84	110	110	36	
DATE		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RINE, TOTAL RESI-DUAL (MG/L) (50060)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
DEC 1993													
08...	--	--	--	--	--	--	--	<0.02	--	--	--	--	--
JUN 1994													
29...	4.8	39	2	4.6	115	45	0.05	29	290	227	9	0.020	
JUL													
20...	6.1	42	1	7.0	169	45	--	31	369	283	14	<0.010	
SEP													
03...	4.9	38	2	4.7	120	49	--	24	217	229	5	<0.010	
DATE		NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)	ARSENIC TOTAL (UG/L AS AS) (01002)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)
DEC 1993													
08...	--	--	--	--	--	--	--	<0.010	6	--	3	<10	<1
JUN 1994													
29...	<0.050	0.030	0.40	0.040	0.030	6.8	<0.010	5	2	4	<10	<1	
JUL													
20...	<0.050	0.040	1.2	0.130	0.110	18	<0.010	4	<1	5	<10	<1	
SEP													
03...	<0.050	0.020	0.70	0.060	0.030	11	<0.010	4	<1	3	<10	<1	
DATE		CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	THAL-LIUM, TOTAL (UG/L AS TL) (01059)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	
DEC 1993													
08...	2	3	1	<0.10	1	2	<1	<10	10	7	0.01		
JUN 1994													
29...	1	3	<1	<0.10	<1	<1	<1	<5	<10	12	0.02		
JUL													
20...	2	6	2	<0.10	1	<1	<1	--	10	40	--		
SEP													
03...	<1	6	<1	<0.10	2	<1	<1	--	10	19	--		

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

08329800 ARROYO DEL EMBUDO INLET TO FLOODWAY CHANNEL AT ALBUQUERQUE, NM

DATE	TIME	DI-BROMO-METHANE WHOLE RECOVER (UG/L) (30217)	DI-CHLORO-BROMO-METHANE TOTAL (UG/L) (32101)	CARBON-TETRA-CHLORIDE TOTAL (UG/L) (32102)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	BROMO-FORM TOTAL (UG/L) (32104)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-FORM TOTAL (UG/L) (32106)	PHENOLS TOTAL (UG/L) (32730)	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)	ACE-NAPHTH-YLENE TOTAL (UG/L) (34200)
DEC 08...	1330	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	6	<0.2	<0.2	--
JUN 29...	0945	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	5	<0.2	<0.2	<5.0
JUL 20...	0845	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	4	<0.2	<0.2	<5.0
SEP 03...	1015	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	4	<0.2	<0.2	<5.0

DATE	ACE-NAPHTH-ENE TOTAL (UG/L) (34205)	ACRO-LEIN TOTAL (UG/L) (34210)	ACRYLO-NITRILE TOTAL (UG/L) (34215)	ANTHRA-CENE TOTAL (UG/L) (34220)	BENZO B FLUOR-AN-THENE TOTAL (UG/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (UG/L) (34242)	BENZO-A-PYRENE TOTAL (UG/L) (34247)	DELTA BENZENE HEXA-CHLOR-IDE TOTAL (UG/L) (34259)	BIS 2-CHLORO-ETHYL ETHER TOTAL (UG/L) (34273)	BIS (2-CHLORO-ETHOXY) METHANE TOTAL (UG/L) (34278)	BIS (2-CHLORO-ISO-PROPYL) ETHER TOTAL (UG/L) (34283)	N-BUTYL BENZYL PHTHAL-ATE TOTAL (UG/L) (34292)
DEC 08...	--	<20	<20	--	--	--	--	--	--	--	--	--
JUN 29...	<5.0	<20	<20	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0	<5.0
JUL 20...	<5.0	<20	<20	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0	<5.0
SEP 03...	<5.0	<20	<20	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0	<5.0

DATE	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHRY-SENE TOTAL (UG/L) (34320)	DIETHYL PHTHAL-ATE TOTAL (UG/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (UG/L) (34341)	ENDO-SULFAN SULFATE TOTAL (UG/L) (34351)	ENDO-SULFAN BETA TOTAL (UG/L) (34356)	ENDO-SULFAN-I WATER WHOLE REC (UG/L) (34361)	ENDRIN ALDE-HYDE TOTAL (UG/L) (34366)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FLUOR-ANTHENE TOTAL (UG/L) (34376)	FLUOR-ENE TOTAL (UG/L) (34381)
DEC 08...	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--	--
JUN 29...	<0.20	<0.2	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	<0.2	<5.0	<5.0
JUL 20...	<0.20	<0.2	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	<0.2	<5.0	<5.0
SEP 03...	<0.20	<0.2	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	<0.2	<5.0	<5.0

DATE	HEXA-CHLORO-CYCLO-PENT-ADIENE TOTAL (UG/L) (34386)	HEXA-CHLORO-ETHANE TOTAL (UG/L) (34396)	INDENO (1,2,3-CD) PYRENE TOTAL (UG/L) (34403)	ISO-PHORONE TOTAL (UG/L) (34408)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL-ENE CHLO-RIDE TOTAL (UG/L) (34423)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (UG/L) (34428)	N-NITRO-SODI-PHENY-LAMINE TOTAL (UG/L) (34433)	N-NITRO-SODI-METHY-LAMINE TOTAL (UG/L) (34438)	NITRO-BENZENE TOTAL (UG/L) (34447)	PARA-CHLORO-META CRESOL TOTAL (UG/L) (34452)
DEC 08...	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--	--
JUN 29...	<5.0	<5.0	<10.0	<5.0	<0.2	<0.2	<0.2	<5.0	<5.0	<5.0	<5.0	<30.0
JUL 20...	<5.0	<5.0	<10.0	<5.0	<0.2	<0.2	<0.2	<5.0	<5.0	<5.0	<5.0	<30.0
SEP 03...	<5.0	<5.0	<10.0	<5.0	<0.2	<0.2	<0.2	<5.0	<5.0	<5.0	<5.0	<30.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

08329800 ARROYO DEL EMBUDO INLET TO FLOODWAY CHANNEL AT ALBUQUERQUE, NM

DATE	PHENANTHRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L) (34488)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L) (34511)	ETHANE, 1,1,2,2 TETRA- CHLORO- WAT UNF REC TOTAL (UG/L) (34516)	BENZOGH I PERYL ENE1,12 -BENZOP ERYLENE TOTAL (UG/L) (34521)	BENZO A ANTHRAC ENE1,2- BENZANT HRACENE TOTAL (UG/L) (34526)	BENZENE O- CHLORO- WATER UNFLTRD REC TOTAL (UG/L) (34536)
DEC 08...	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--	<0.20
JUN 29...	<5.0	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<10.0	<10.0	<5.0
JUL 20...	<5.0	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<10.0	<10.0	<5.0
SEP 03...	<5.0	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<10.0	<10.0	<5.0
DATE	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	1,2- TRANS DI CHLORO- ETHENE TOTAL (UG/L) (34546)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC TOTAL (UG/L) (34551)	BENZENE 1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (UG/L) (34556)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC TOTAL (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC TOTAL (UG/L) (34571)	2- CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L) (34576)	2- CHLORO- NAPH- THALENE TOTAL (UG/L) (34581)	2- CHLORO- PHENOL TOTAL (UG/L) (34586)	2- NITRO- PHENOL TOTAL (UG/L) (34591)	DI-N- OCTYL PHTHAL- ATE TOTAL (UG/L) (34596)	2,4-DI- CHLORO- PHENOL TOTAL (UG/L) (34601)
DEC 08...	<0.2	<0.2	<0.20	--	<0.20	<0.20	<1.0	--	--	--	--	--
JUN 29...	<0.2	<0.2	<5.0	<10.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<10.0	<5.0
JUL 20...	<0.2	<0.2	<5.0	<10.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<10.0	<5.0
SEP 03...	<0.2	<0.2	<5.0	<10.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<10.0	<5.0
DATE	2,4-DI- METHYL- PHENOL TOTAL (UG/L) (34606)	2,4-DI- NITRO- TOLUENE TOTAL (UG/L) (34611)	2,4,6- DI- NITRO- PHENOL TOTAL (UG/L) (34616)	2,4,6- TRI- CHLORO- PHENOL TOTAL (UG/L) (34621)	2,6-DI- NITRO- TOLUENE TOTAL (UG/L) (34626)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (UG/L) (34631)	4- BROMO- PHENYL ETHER TOTAL (UG/L) (34636)	4- CHLORO- PHENYL ETHER TOTAL (UG/L) (34641)	4- NITRO- PHENOL TOTAL (UG/L) (34646)	4,6- DINITRO -ORTHO- CRESOL TOTAL (UG/L) (34657)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)	AROCLOR 1016 PCB TOTAL (UG/L) (34671)
DEC 08...	--	--	--	--	--	--	--	--	--	--	<0.2	--
JUN 29...	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	<0.2	<0.1
JUL 20...	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	<0.2	<0.1
SEP 03...	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	<0.2	<0.1
DATE	PHENOL (C6H- 5OH) TOTAL (UG/L) (34694)	NAPHTH- ALENE TOTAL (UG/L) (34696)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34699)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34704)	PENTA- CHLORO- PHENOL TOTAL (UG/L) (39032)	CHLOR- DANE CIS WATER WHOLE TOTAL (UG/L) (39062)	CHLOR- DANE TRANS WATER WHOLE TOTAL (UG/L) (39065)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (UG/L) (39100)	DI-N- BUTYL PHTHAL- ATE TOTAL (UG/L) (39110)	BENZI- DINE TOTAL (UG/L) (39120)	VINYL CHLOR- IDE TOTAL (UG/L) (39175)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)
DEC 08...	--	<0.2	<0.2	<0.2	--	--	--	--	--	--	<0.2	<0.2
JUN 29...	<5.0	<5	<0.2	<0.2	<30.0	<0.10	<0.10	<5.0	<5.0	<40.0	<0.2	<0.2
JUL 20...	<5.0	<5	<0.2	<0.2	<30.0	<0.10	<0.10	<5.0	<5.0	<40.0	<0.2	<0.2
SEP 03...	<5.0	<5	<0.2	<0.2	<30.0	<0.10	<0.10	<5.0	<5.0	<40.0	<0.2	<0.2

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

0027000 ARROYO DEL ESTRADO INLET TO FLOODWAY CHANNEL AT ALBUQUERQUE, NM

DATE	P,P' DDT TOTAL (UG/L) (39300)	P,P' DDD TOTAL (UG/L) (39310)	P,P' DDE TOTAL (UG/L) (39320)	ALDRIN, TOTAL (UG/L) (39330)	ALPHA BHC TOTAL (UG/L) (39337)	BENZENE HEXA- CHLOR- IDE TOTAL (UG/L) (39338)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	TOX- APHENE, TOTAL (UG/L) (39400)	HEPTA- CHLOR, TOTAL (UG/L) (39410)
DEC 08...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 29...	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2	<0.030
JUL 20...	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2	<0.030
SEP 03...	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2	<0.030

DATE	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	AROCLOR 1221 PCB TOTAL (UG/L) (39488)	AROCLOR 1232 PCB TOTAL (UG/L) (39492)	AROCLOR 1242 PCB TOTAL (UG/L) (39496)	AROCLOR 1248 PCB TOTAL (UG/L) (39500)	AROCLOR 1254 PCB TOTAL (UG/L) (39504)	AROCLOR 1260 PCB TOTAL (UG/L) (39508)	HEXA- CHLORO- BENZENE TOTAL (UG/L) (39700)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L) (39702)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L) (77093)	STYRENE TOTAL (UG/L) (77128)	1,1-DI CHLORO- PROP- ENE, WAT, WH TOTAL (UG/L) (77168)
DEC 08...	--	--	--	--	--	--	--	--	<0.2	<0.2	<0.2	<0.2
JUN 29...	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	<5	<0.2	<0.2	<0.2
JUL 20...	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	<5	<0.2	<0.2	<0.2
SEP 03...	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	<5	<0.2	<0.2	<0.2

DATE	2,2-DI CHLORO- PRO- PANE WAT, WH TOTAL (UG/L) (77170)	1,3-DI- CHLORO- PROPANE WAT, WH TOTAL (UG/L) (77173)	PSEUDO- CUMENE WATER UNFLTRD REC (UG/L) (77222)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	MESIT- YLENE WATER UNFLTRD REC (UG/L) (77226)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	METHANE BROMO CHLORO- WAT UNFLTRD REC (UG/L) (77297)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE SEC BUTYL- WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT- BUTYL- WATER UNFLTRD REC (UG/L) (77353)
DEC 08...	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
JUN 29...	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
JUL 20...	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20
SEP 03...	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20

DATE	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356)	123-TRI CHLORO- PROPANE WATER WHOLE TOTAL (UG/L) (77443)	ETHANE, 1112- TETRA- CHLORO- WAT UNF REC (UG/L) (77562)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL ETHER TERT- BUTYL WAT UNF REC (UG/L) (78032)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	BROMO- BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	DIBROMO CHLORO- PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (UG/L) (82626)	SAM- PLING METHOD, CODES (82398)
DEC 08...	<0.20	<0.2	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0	--	--
JUN 29...	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.2	<1.0	<5.0	70
JUL 20...	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.2	<1.0	<5.0	--
SEP 03...	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<0.2	<1.0	<5.0	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

08329928 RIO GRANDE NEAR ALAMEDA, NM

DATE	TIME	CYANIDE TOTAL (MG/L AS CN) (00720)
MAY 1994 31...	1600	<0.010

08330150 RIO GRANDE AT RIO BRAVO BRIDGE NEAR ALBUQUERQUE

DATE	TIME	CYANIDE TOTAL (MG/L AS CN) (00720)
JUN 1994 02...	1400	<0.010

08363500 RIO GRANDE AT LEASBURG DAM, NM

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CaCO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CaCO3 (MG/L) (00904)
OCT 1993											
19...	0815	E240	1140	8.4	11.0	14.0	659	8.1	91	300	100
NOV											
08...	1230	E78	1380	8.2	22.0	14.0	662	10.3	116	370	170
DEC											
06...	1130	E67	1410	8.4	10.0	5.5	664	12.1	110	370	160
JAN 1994											
07...	0930	E58	1450	8.3	-2.0	2.0	674	11.0	90	390	170
FEB											
10...	0830	E452	674	8.2	0.0	6.0	666	10.0	92	160	39
MAR											
01...	1115	E560	718	8.2	19.0	10.5	667	9.8	100	170	45
APR											
13...	1000	E965	820	8.3	18.5	15.0	664	8.4	96	200	72
18...	1330	E1030	785	8.1	29.5	18.5	663	8.4	103	190	44
26...	0740	E950	787	8.2	11.5	13.0	654	8.3	92	200	47
MAY											
04...	1015	E865	759	8.4	--	17.5	668	8.1	97	190	45
10...	1145	E865	743	8.3	26.0	16.5	661	8.2	97	190	42
JUN											
21...	1330	E2630	672	8.1	33.0	22.0	662	7.1	94	180	41
JUL											
11...	1300	E1800	678	8.2	33.5	24.0	663	6.9	95	170	26
AUG											
16...	1200	E1730	673	8.2	30.5	26.5	664	6.7	96	150	26
SEP											
20...	1115	E783	749	8.4	28.0	22.0	664	7.5	99	170	36

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

08363500 RIO GRANDE AT LEASBURG DAM, NM

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
OCT 1993										
19...	88	20	130	3	6.2	242	0	198	196	240
NOV										
08...	110	24	160	4	8.1	246	0	202	193	340
DEC										
06...	110	24	160	4	7.6	259	0	212	203	350
JAN 1994										
07...	120	23	160	4	7.5	268	0	220	219	340
FEB										
10...	43	12	83	3	5.6	144	0	118	123	130
MAR										
01...	45	13	85	3	5.3	148	0	122	126	140
APR										
13...	57	14	91	3	6.6	152	2	127	153	140
18...	55	13	84	3	6.2	179	0	146	149	140
26...	57	13	86	3	6.1	182	0	157	155	130
MAY										
04...	55	13	80	3	6.0	172	3	146	152	130
10...	54	13	78	2	5.8	178	0	146	150	130
JUN										
21...	52	12	70	2	5.7	168	0	138	146	120
JUL										
11...	47	12	68	2	5.4	172	0	138	141	120
AUG										
16...	43	11	69	2	6.0	154	0	126	128	130
SEP										
20...	46	13	82	3	6.6	153	4	132	136	140

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)
OCT 1993										
19...	87	0.50	10	694	702	0.360	0.010	0.370	0.040	0.16
NOV										
08...	120	0.60	15	902	900	0.180	0.010	0.190	0.030	0.27
DEC										
06...	130	0.50	14	926	925	--	<0.010	0.260	0.020	--
JAN 1994										
07...	130	0.60	15	955	929	0.230	0.020	0.250	0.070	0.13
FEB										
10...	56	0.60	1.6	393	403	0.055	0.020	0.075	0.020	0.28
MAR										
01...	65	0.60	1.5	431	428	--	<0.010	0.054	0.020	0.28
APR										
13...	73	0.60	1.4	487	461	0.064	0.020	0.084	0.020	0.28
18...	64	0.60	1.5	469	452	--	<0.010	<0.050	0.030	--
26...	65	0.60	2.2	448	450	0.044	0.010	0.054	0.030	0.17
MAY										
04...	57	0.60	3.2	437	432	--	<0.010	<0.050	0.020	0.18
10...	56	0.60	4.8	456	430	--	<0.010	<0.050	0.020	0.18
JUN										
21...	44	0.50	8.3	407	396	0.140	0.020	0.160	0.020	0.18
JUL										
11...	44	0.50	7.8	404	390	--	<0.010	0.081	0.020	0.18
AUG										
16...	51	0.50	8.2	418	394	--	<0.010	<0.050	0.010	--
SEP										
20...	63	0.60	11	447	442	--	<0.010	0.100	0.030	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

08363500 RIO GRANDE AT LEASBURG DAM, NM

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT 1993										
19...	0.30	0.20	0.040	0.010	0.020	--	--	<3	8	64
NOV										
08...	<0.20	0.30	0.010	<0.010	0.010	--	--	10	17	27
DEC										
06...	<0.20	<0.20	<0.010	--	<0.010	--	--	<3	31	19
JAN 1994										
07...	0.30	0.20	0.150	0.030	0.010	--	--	5	40	21
FEB										
10...	0.70	0.30	0.080	<0.010	<0.010	--	--	5	5	149
MAR										
01...	0.50	0.30	0.060	<0.010	<0.010	--	--	4	5	91
APR										
13...	0.40	0.30	0.050	<0.010	<0.010	7.5	0.4	<3	3	134
18...	0.30	<0.20	0.020	0.020	0.020	5.3	1.1	<3	3	148
26...	0.30	0.20	0.030	0.020	<0.010	5.3	0.5	10	5	111
MAY										
04...	0.50	0.20	0.050	<0.010	<0.010	6.5	0.8	6	4	143
10...	0.50	0.20	0.040	0.040	0.010	5.7	0.2	3	3	68
JUN										
21...	0.40	0.20	0.090	<0.010	0.010	--	--	9	3	556
JUL										
11...	0.40	0.20	0.120	0.020	<0.010	--	--	13	2	169
AUG										
16...	0.70	<0.20	0.160	0.020	<0.010	--	--	<3	2	253
SEP										
20...	0.50	<0.20	0.060	0.010	<0.010	--	--	<3	3	81

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P, P' DDE DISSOLV (UG/L) (34653)
APR										
13...	1000	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010
18...	1330	<0.015	<0.008	EO.007	0.009	<0.005	<0.013	<0.008	<0.007	EO.002
26...	0740	<0.015	<0.008	<0.008	0.008	<0.005	<0.013	<0.008	<0.007	<0.010
MAY										
04...	1015	<0.015	<0.008	<0.008	0.009	<0.005	<0.013	<0.008	<0.007	<0.010
10...	1145	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010

DATE	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
APR										
13...	<0.008	<0.011	<0.008	EO.008	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012
18...	<0.008	<0.011	<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012
26...	<0.008	<0.011	<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012
MAY										
04...	<0.008	<0.011	<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012
10...	<0.008	<0.011	<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

08363500 RIO GRANDE AT LEASBURG DAM. NM

DATE	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMEIN- OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	FEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)
APR										
13...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009
18...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009
26...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009
MAY										
04...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009
10...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009

DATE	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
APR										
13...	<0.015	<0.007	<0.012	<0.013	0.016	<0.012	<0.009	<0.010	<0.008	<0.016
18...	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012	<0.009	<0.010	<0.008	<0.016
26...	<0.015	<0.007	<0.012	<0.013	EO.006	<0.012	<0.009	<0.060	<0.008	<0.016
MAY										
04...	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
10...	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016

DATE	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	SAM- FLING METHOD, CODES (82398)
APR									
13...	<0.046	<0.008	0.005	<0.018	<0.010	<0.008	<0.05	<0.016	10
18...	<0.046	<0.008	0.004	<0.018	<0.010	<0.008	<0.05	<0.016	10
26...	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016	10
MAY									
04...	<0.046	<0.008	EO.003	<0.018	<0.010	<0.008	<0.05	<0.016	10
10...	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016	10

08363840 RIO GRANDE AT VINTON BRIDGE NEAR ANTHONY, TX

DATE	TIME	DIS- CHARGE INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
APR 1994											
07...	1240	696	973	8.4	--	17.0	664	8.8	105	220	51
12...	1430	640	956	8.4	22.5	18.0	670	9.1	110	230	66
19...	1100	590	946	8.4	27.0	18.0	667	8.3	101	230	56
27...	2330	731	831	8.3	11.5	15.0	663	7.9	90	230	73
MAY											
04...	0700	630	1000	8.3	9.0	17.5	667	7.5	90	230	58
11...	0745	560	984	8.2	15.0	16.5	666	7.7	91	240	67

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

08363840 RIO GRANDE AT VINTON BRIDGE NEAR ANTHONY, TX

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD HCO3 (MG/L AS 00453)	CAR- BONATE WATER DIS IT FIELD CO3 (MG/L AS 00452)	ALKA- LINITY WAT DIS TOT IT FIELD CACO3 (MG/L AS 39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
APR 1994											
07...	61	16	110	3	7.8	190	7	168	171	180	96
12...	67	15	110	3	7.6	195	2	164	169	170	86
19...	66	15	110	3	7.4	208	0	171	185	170	77
27...	68	15	110	3	7.4	187	3	158	189	180	84
MAY											
04...	69	15	110	3	7.9	203	6	176	187	190	84
11...	70	16	110	3	7.2	212	0	173	183	190	80

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
APR 1994										
07...	0.60	4.2	617	578	0.350	0.020	0.370	0.020	0.28	0.40
12...	0.60	3.8	583	560	0.350	0.020	0.370	0.010	0.19	0.50
19...	0.60	3.8	560	553	--	<0.010	0.240	<0.010	--	0.60
27...	0.70	4.9	586	566	0.270	0.010	0.280	0.030	0.17	0.50
MAY										
04...	0.70	5.2	620	588	0.150	0.010	0.160	0.030	0.17	0.50
11...	0.70	7.0	616	586	0.230	0.020	0.250	0.020	0.18	0.50

DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
APR 1994										
07...	0.30	0.060	0.010	0.020	--	--	<3	1	717	1350
12...	0.20	0.120	0.020	0.020	4.4	0.4	<3	5	362	626
19...	0.20	0.110	0.010	<0.010	8.3	1.2	4	4	309	492
27...	0.20	0.170	0.020	0.020	4.9	1.0	<3	4	192	379
MAY										
04...	0.20	0.060	<0.010	0.020	--	1.2	<3	2	226	384
11...	0.20	0.090	0.030	0.030	4.7	0.8	<3	2	147	222

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)
APR										
07...	1240	<0.015	<0.008	EO.006	<0.008	<0.003	<0.013	<0.008	<0.007	<0.010
12...	1430	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010
19...	1100	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010
27...	2330	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010
MAY										
04...	0700	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010
11...	0745	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

00000010 RIO GRANDE AT HINSON BRIDGE NEAR ANTHONY, TX

DATE	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
APR										
07...	<0.005	<0.011	<0.008	<0.009	<0.014	<0.022	<0.008	EO.004	<0.009	<0.012
12...	<0.008	<0.011	<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012
19...	<0.008	<0.011	<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012
27...	<0.008	<0.011	<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012
MAY										
04...	<0.008	<0.011	<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012
11...	<0.008	<0.011	<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012

DATE	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH- OATE WATER FLTRD 0.7 U GF, REC (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PFB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)
APR										
07...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009
12...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009
19...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009
27...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009
MAY										
04...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009
11...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	0.005	<0.009

DATE	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BIFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
APR										
07...	<0.015	<0.007	<0.012	<0.013	0.014	<0.012	<0.009	<0.008	<0.008	<0.016
12...	<0.015	<0.007	<0.012	<0.013	0.014	<0.012	<0.009	<0.010	<0.008	<0.016
19...	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012	<0.009	<0.010	<0.008	<0.016
27...	<0.015	<0.007	<0.012	<0.013	0.030	<0.012	<0.009	<0.060	<0.008	<0.016
MAY										
04...	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
11...	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016

DATE	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	SAM- PLING METHOD, CODES (82398)
APR									
07...	<0.046	<0.008	0.008	<0.018	<0.010	<0.006	<0.038	<0.016	10
12...	<0.046	<0.008	0.006	<0.018	<0.010	<0.008	<0.05	<0.016	--
19...	<0.046	<0.008	0.005	<0.018	<0.010	<0.008	<0.05	<0.016	--
27...	<0.046	<0.008	0.004	<0.018	<0.010	<0.008	<0.05	<0.016	--
MAY									
04...	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016	10
11...	<0.046	<0.008	0.016	<0.018	<0.010	<0.008	<0.05	<0.016	10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN

The following water-quality tables for miscellaneous sites in the Rio Grande basin that are identified by 15-digit latitude-longitude site numbers are in order by ascending site numbers as shown in parenthesis after the site names. The inorganic analyses tables are followed by the organic-compound analyses tables for these sites. This departure from the normal downstream order for surface-water sites was taken to facilitate locating these sites in this report and for comparing results for the same group of analyses.

SUNLAND PARK WASTEWATER PLANT AT SUNLAND PARK, NM (314754106332110)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
APR 1994 28...	0920	1400	7.6	13.5	23.5	668	7.2	97	110	0

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
APR 1994 28...	39	4.1	210	9	14	218	0	179	172	230

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)
APR 1994 28...	170	0.90	36	806	844	0.030	0.120	0.150	17.0	5.0

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
APR 1994 28...	21	22	3.80	3.90	3.40	8.8	0.1	39	15	30

MONTOKA DRAIN AT SUNLAND PARK, NM (314810106324610)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
APR 1994 28...	0815	1900	8.2	16.5	14.5	666	6.8	77	370	130

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

NEMEXAS DRAIN AT MEADOWLARK DRIVE, EL PASO, TX (315007106355410)

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
APR 1994 28...	110	24	270	6	6.9	302	0	248	267	430
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)
APR 1994 28...	200	0.90	23	1270	1210	0.340	0.020	0.360	0.040	0.16
DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTH, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
APR 1994 28...	0.30	0.20	0.090	0.010	0.010	6.1	0.7	<3	11	142
NEMEXAS DRAIN AT MEADOWLARK DRIVE NEAR EL PASO, TX (315007106355410)										
DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L AS O2) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
APR 1994 28...	1200	1770	8.2	20.0	17.0	665	8.4	100	380	120
DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
APR 1994 28...	110	25	250	6	6.8	319	0	262	281	400
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)
APR 1994 28...	170	0.80	24	1170	1150	0.360	0.020	0.380	0.050	0.25

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

NEMEXAS DRAIN AT MEADOWLARK DRIVE NEAR EL PASO, TX (315007106355410)

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDEDED TOTAL (MG/L AS C) (00689)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, SUS- PENDEDED (MG/L) (80154)
APR 1994 28...	0.30	0.30	0.020	0.020	0.020	4.4	0.5	<3	36	138

RIO GRANDE AT TX 259 BRIDGE, CANUTILLO, TX (315454106360610)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
JAN 1994 20...	1350	195	1180	19.5	10.0	8.0	260	76	17	140	4	8.3

DATE	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JAN 1994 20...	182	240	110	0.70	11	740	718	0.840	0.060	0.900	0.190	0.80

DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
JAN 1994 20...	0.130	0.050	0.050	<10	2	57	<1.0	<1	<3	2	7

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
JAN 1994 20...	<1	110	7	<0.1	10	<1	<1	<1.0	970	<6	110

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN - CONTINUED

DATA SIDE DATA AT ROUTE 404 BRIDGE NEAR CHAMBERINO, NM (320122106385510)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
APR 1994 27...	2230	28	2100	8.4	10.5	15.5	666	7.0	81	320	31

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
APR 1994 27...	87	26	330	8	25	351	3	293	334	400	240

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
APR 1994 27...	1.0	15	1320	1300	0.560	0.080	0.640	0.140	0.36	1.0

DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS P) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
APR 1994 27...	0.50	0.340	0.160	0.120	5.1	0.1	49	21	157	12

RIO GRANDE AT ROUTE 404 BRIDGE NEAR CHAMBERINO, NM (320122106385510)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
APR 1994 27...	1830	616	922	7.8	18.0	659	7.8	96	230	77

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
APR 1994 27...	69	15	100	3	7.0	192	0	158	182	170

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RIO GRANDE AT ROUTE 404 BRIDGE NEAR CHAMBERINO, NM (320122106385510)

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
APR 1994 27...	78	0.70	5.1	589	541	0.260	0.010	0.270	0.020	0.30

DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, DIS- SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
APR 1994 27...	<0.20	0.100	0.020	0.020	0.9	<3	12	177	294

LA MESA DRAIN AT LEVEE ROAD NEAR CHAMBERINO, NM (320214106392510)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARE DISSOLV FLD. AS CACO3 (MG/L) (00904)
APR 1994 27...	1730	37	1570	8.3	21.5	19.5	659	8.8	112	420	180

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LITY WAT DIS TOT IT MG/L AS CACO3 (39086)	ALKA- LITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
APR 1994 27...	130	24	170	4	7.9	297	0	244	250	360	140

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
APR 1994 27...	0.60	20	1050	1000	0.390	0.020	0.410	0.040	0.16	0.40

DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, DIS- SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
APR 1994 27...	0.20	0.050	0.020	0.020	3.7	0.3	3	260	107	11

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

DEL RIO BRIDGE AT LEWIS ROAD NEAR VADO, NM (320610106202110)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
APR 1994 27...	1215	59	1300	8.2	23.0	17.5	658	8.1	98	350

DATE	HARD- NESS	CALCIUM	MAGNE- SIUM,	SODIUM,	SODIUM	POTAS- SIUM,	BICAR- BONATE	CAR- BONATE	ALKA- LINITY	ALKA- LINITY
	NONCARB	DIS-	DIS-	DIS-	AD- SORP-	DIS-	WATER	WATER	WAT DIS	LINITY
	DISSOLV	SOLVED	SOLVED	SOLVED	TION	SOLVED	DIS IT	DIS IT	TOT IT	LAB
	FLD. AS	(MG/L	(MG/L	(MG/L	RATIO	(MG/L	MG/L AS	MG/L AS	MG/L AS	(MG/L
	CACO3	AS CA)	AS MG)	AS NA)		AS K)	HCO3	CO3	CACO3	AS
	(00904)	(00915)	(00925)	(00930)	(00931)	(00935)	(00453)	(00452)	(39086)	(90410)
APR 1994										
27...	140	110	19	140	3	7.8	254	0	208	224

DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
APR 1994 27...	280	110	0.70	17	814	812	0.620	0.020	0.640	0.030

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
APR 1994 27...	0.30	<0.20	0.090	0.020	0.020	0.7	<3	10	136	22

RIO GRANDE AT NM 227 BRIDGE NEAR VADO, NM (320648106400510)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	
JAN 1994	20...	0920	159	1020	4.5	4.0	21	230	66	15	110	3	7.0

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	
JAN 1994	20...	158	200	94	0.70	7.1	618	601	1.04	0.060	1.10	0.200	0.80

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RIO GRANDE AT NM 227 BRIDGE NEAR VADO, NM (320648106400510)

DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
JAN 1994 20...	0.080	0.030	0.030	<10	2	66	<1.0	<1	<3	<1	<3

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
JAN 1994 20...	<1	96	4	<0.1	<10	1	<1	<1.0	830	<6	10

LA MESA DRAIN AT ROUTE 192 NEAR SAN MIGUEL, NM (320936106431710)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARE DISSOLV FLD. AS CACO3 (MG/L) (00904)
APR 1994 25...	1130	19	1340	8.0	17.5	15.5	660	8.6	100	360	140

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB DIS- SOLVED (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
APR 1994 25...	110	21	140	3	7.7	270	0	221	224	290	110

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
APR 1994 25...	0.60	16	860	830	0.190	0.020	0.210	0.100	0.20	0.50

DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, DIS- CHARGE, PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, PENDE (T/DAY) (80155)
APR 1994 25...	0.30	0.080	0.030	0.040	4.3	0.3	13	450	79	4.1

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RIO GRANDE AT ROUTE 100 NEAR SAN MIGUEL, NM (32014106431410)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
APR 1994 27...	0645	484	814	8.4	15.0	13.5	661	8.6	96	200	47

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
APR 1994 27...	57	13	86	3	6.5	181	0	150	158	140	70

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
APR 1994 27...	0.60	2.3	499	466	0.240	0.020	0.260	0.020	0.18	0.40

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, SUS-PENDED TOTAL (MG/L AS C) (00689)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR 1994 27...	0.20	0.110	0.030	0.020	3.8	1.0	<3	2	166	217

SANTO TOMAS RIVER DRAIN AT LEVEE ROAD NEAR SAN MIGUEL, NM (321014106431410)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
APR 1994 27...	0530	0.06	1200	8.1	13.5	15.5	657	6.2	72	360

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)
APR 1994 27...	150	110	20	120	3	8.8	258	0	212	234

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

SANTO TOMAS RIVER DRAIN AT LEVEE ROAD NEAR SAN MIGUEL, NM (321014106431410)

DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)
APR 1994 27...	250	98	0.50	15	774	750	<0.010	<0.050	0.030	0.27

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
APR 1994 27...	0.50	0.30	0.130	0.100	0.100	0.3	11	5	28	0.00

DEL RIO DRAIN AT PIANO ROAD NEAR SANTO TOMAS, NM (321210106443210)

DATE	TIME	DIS- CHARGE, INST CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
APR 1994 25...	1140	48	1180	8.1	18.5	15.5	661	9.1	106	320	130

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
APR 1994 25...	100	18	120	3	6.9	234	0	192	212	250

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
APR 1994 25...	100	0.60	17	776	730	0.400	0.020	0.420	0.020	0.30

DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
APR 1994 25...	<0.20	0.070	0.040	0.040	3.3	0.1	5	47	82	11

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RIO GRANDE BELOW MESILLA DAM NEAR SANTO THOMAS, NM (321457106492110)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
JAN 1994 19...	1440	159	960	16.0	11.5	8.5	220	64	15	110	3	6.9

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JAN 1994 19...	159	200	89	0.60	6.3	601	590	0.410	0.030	0.440	0.230	0.70

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
JAN 1994 19...	0.100	0.020	0.020	<10	2	60	<1.0	<1	<3	<1	3

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
JAN 1994 19...	<1	94	11	<0.1	10	<1	<1	<1.0	810	<6	<10

PICACHO DRAIN NEAR SAN PABLO, NM (321457106492110)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
APR 1994 26...	2210	8.2	1250	8.0	18.0	19.0	657	6.9	87	320	100

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD HC03 (00453)	CAR-BONATE WATER DIS IT FIELD CO3 (00452)	ALKA-LINITY WAT DIS TOT IT FIELD CACO3 (39086)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
APR 1994 26...	97	18	140	3	6.9	259	0	212	221	270	100

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

PICACHO DRAIN NEAR SAN PABLO, NM (321457106492110)

DATE	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
APR 1994 26...	0.70	19	812	780	0.220	0.020	0.240	0.080	0.42	0.50

DATE	NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOSPHORUS, PHOSPHATE TOTAL (MG/L AS P) (00665)	PHOSPHORUS, PHOSPHATE DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (MG/L) (80155)
APR 1994 26...	0.50	0.080	0.110	0.010	4.4	0.5	4	10	106	2.3

RIO GRANDE ABOVE NM 359 BRIDGE AT MESILLA, NM (321601106494110)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
APR 1994 26...	2030 1030	822	7.8	20.0	17.5	653	7.7	95	210	49	

DATE	CALCIUM, DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM, ADSORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBONATE, WATER DIS-SOLVED (MG/L AS HCO3) (00453)	CARBONATE, WATER DIS-SOLVED (MG/L AS CO3) (00452)	ALKALINITY, WATER TOTAL (MG/L AS CaCO3) (39086)	ALKALINITY, LAB (MG/L AS CaCO3) (90410)	SULFATE, DIS-SOLVED (MG/L AS SO4) (00945)
APR 1994 26...	59	14	89	3	6.7	190	0	156	158	140

DATE	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
APR 1994 26...	67	0.70	2.5	489	473	0.160	0.030	0.190	0.050	0.25

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOSPHORUS, PHOSPHATE TOTAL (MG/L AS P) (00665)	PHOSPHORUS, PHOSPHATE DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (MG/L) (80155)
APR 1994 26...	0.40	0.30	0.090	0.030	0.030	0.7	<3	2	107	298

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

LAS CRUCES WASTE WATER TREATMENT PLANT AT LEVEE ROAD LAS CRUCES, NM (321739106495110)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
APR 1994 26...	1855	11	1280	7.5	22.0	21.0	656	6.2	82	240	100

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
APR 1994 26...	70	16	140	4	18	167	0	137	110	120	200

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
APR 1994 26...	0.80	31	770	754	13.8	1.20	15.0	3.40	1.2	5.4

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, SUS-PENDED TOTAL (MG/L AS C) (00689)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR 1994 26...	4.6	2.30	2.00	1.80	6.8	0.5	94	49	24	0.70

RIO GRANDE BELOW PICACHO BRIDGE NEAR LAS CRUCES, NM (321745106492510)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
JAN 1994 19...	1200	190	950	18.0	6.5	2.2	220	64	15	110	3	6.4

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JAN 1994 19...	159	190	85	0.60	5.4	598	573	0.110	0.010	0.120	0.030	0.40

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RIO GRANDE BELOW PICACHO BRIDGE NEAR LAS CRUCES, NM (321745106492510)

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
JAN 1994 19...	<0.010	<0.010	<0.010	10	2	56	<1.0	<1	<3	<1	<3

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
JAN 1994 19...	<1	97	3	0.5	<10	<1	<1	<1.0	810	<6	<10

RIO GRANDE AT SHALEM BRIDGE NEAR DONA ANA, NM (322234106511710)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED (MG/L OF (00300)	OXYGEN, DIS- SOLVED (MG/L OF (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
APR 1994 26...	1330	981	802	8.4	24.5	17.0	657	8.5	102	200	43

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
APR 1994 26...	58	14	87	3	6.4	193	1	159	160	140

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
APR 1994 26...	68	0.60	2.3	485	472	0.010	<0.050	0.020	0.18	0.40

DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
APR 1994 26...	0.20	0.040	<0.010	<0.010	3.9	0.7	<3	6	99	262

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RTO GRANDE RASIN -- Continued

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED SATUR-ATION (PER-CENT) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
APR 1994 26...	1020	3.3	1180	8.1	16.0	14.0	655	8.2	93	320	77

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD CO3 (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
APR 1994 26...	98	18	130	3	8.1	295	0	242	247	220

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
APR 1994 26...	89	0.80	22	738	733	0.400	0.030	0.430	0.050	0.25

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR 1994 26...	0.40	0.30	0.020	0.020	<0.010	3.4	19	310	75	0.66

RIO GRANDE BELOW LEASBURG DAM, NM (322841106551010)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
JAN 1994 19...	0950	187	890	7.5	3.5	3.1	210	60	15	100	3	5.7

DATE	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JAN 1994 19...	150	190	73	0.60	4.5	545	540	<0.010	0.110	0.030	0.40

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RIO GRANDE BELOW LEASBURG DAM, NM (322841106551010)

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
JAN 1994 19...	<0.010	<0.010	0.010	<10	1	60	<1.0	1	<3	<1	6

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRONTIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANADIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
JAN 1994 19...	<1	85	10	<0.1	20	<1	<1	<1.0	780	<6	<10

RINCON DRAIN AT RIO GRANDE NEAR RINCON, NM (323410106594403)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (MG/L) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
JAN 1994 05...	0920	4.8	1890	8.3	4.5	11.0	559	11.5	143	490	--
APR 22...	0800	15	1530	7.9	17.5	18.0	658	3.2	39	390	190

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)
JAN 1994 05...	150	28	220	4	9.8	--	--	223	550	160	0.70
APR 22...	120	23	170	4	9.8	254	208	203	370	140	0.70

DATE	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
JAN 1994 05...	0.28	22	1320	1280	0.410	0.030	0.440	0.140	0.16	0.30	0.030
APR 22...	0.20	16	1010	977	0.410	0.030	0.440	0.120	0.38	0.50	0.020

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RINCON DRAIN AT RIO GRANDE NEAR RINCON, NM (323414106594903)

DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)
JAN 1994 05...	0.020	2.9	--	4	<1	2	60	<1	<1.0	2	<1
APR 22...	0.020	4.9	0.8	4	<1	2	72	<1	<1.0	3	<1

DATE	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
JAN 1994 05...	3	4	3	340	10	2	<1	<1.0	2	5.0
APR 22...	4	17	<1	130	8	2	<1	<1.0	5	5.0

RIO GRANDE ABOVE RINCON DRAIN NEAR RINCON, NM (323414106594903)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
JAN 1994 05...	1150	44	1410	8.4	16.5	8.0	657	10.3	102	390	--
APR 22...	0940	1100	765	8.5	25.0	17.5	658	7.5	91	190	37

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JAN 1994 05...	120	23	150	3	6.1	--	--	--	220	340	110
APR 22...	54	13	83	3	6.1	168	8	151	149	130	65

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
JAN 1994 05...	0.60	0.22	14	922	898	0.380	0.020	0.400	0.090	0.11	0.20
APR 22...	0.60	0.080	1.8	461	444	--	<0.010	<0.050	0.040	0.26	0.30

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RIO GRANDE ABOVE RINCON DRAIN NEAR RINCON, NM (323414106594903)

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)
JAN 1994 05...	<0.010	0.010	3.5	--	6	<1	2	81	<1	<1.0	2
APR 22...	<0.010	<0.010	3.9	0.5	10	<1	1	85	<1	<1.0	3

DATE	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
JAN 1994 05...	<1	2	4	2	68	8	<1	<1	<1.0	3	6.0
APR 22...	<1	<1	7	<1	2	7	<1	<1	<1.0	<1	3.0

HATCH DRAIN AT RIO GRANDE NEAR HATCH, NM (323917107055603)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
JAN 1994 04...	1450	0.44	1690	8.7	14.0	8.0	662	15.3	150	390	--
APR 21...	0730	7.5	1540	7.9	12.0	16.0	658	4.7	56	400	140

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
JAN 1994 04...	120	23	190	4	10	--	--	283	400	130	0.80
APR 21...	120	24	170	4	8.0	321	263	258	370	130	0.80

DATE	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
JAN 1994 04...	0.22	32	1170	1090	3.19	0.110	3.30	0.060	0.44	0.50	0.730
APR 21...	0.23	23	1040	1010	0.460	0.080	0.540	0.270	0.33	0.60	0.180

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

HATCH DRAIN AT RIO GRANDE NEAR HATCH, NM (323917107055603)

DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)
JAN 1994 04...	0.730	4.8	--	10	<1	2	37	<1	<1.0	3	<1
APR 21...	0.190	4.3	1.1	4	<1	2	66	<1	<1.0	3	<1

	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
JAN 1994										
04...	4	40	<1	41	10	2	<1	<1.0	11	7.0
APR										
21...	3	17	<1	170	10	1	<1	<1.0	4	7.0

RINCON DRAIN 0.5 MILES EAST OF I 40 NEAR RINCON, NM (323931107042003)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
JAN 1994 05...	1430	0.05	1470	8.3	21.0	13.0	659	17.1	189	400	--
APR 21...	1630	0.87	1220	8.0	--	22.5	655	7.6	103	350	130

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB AS (MG/L CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
JAN 1994 05...	120	24	150	3	6.8	--	--	276	350	110	0.60
APR 21...	110	19	120	3	6.8	277	227	222	270	86	0.70

DATE	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
JAN 1994 05...	0.16	15	930	945	0.430	0.020	0.450	0.080	0.22	0.30	0.020
APR 21...	0.15	21	788	772	0.390	0.010	0.400	0.060	0.24	0.30	<0.010

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RINCON DRAIN 0.5 MILES EAST OF I 40 NEAR RINCON, NM (323931107042003)

DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C) (00689)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SE) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)
JAN 1994 05...	0.010	4.2	--	3	<1	<1	110	<1	<1.0	2	<1
APR 21...	<0.010	3.6	0.5	20	<1	1	53	<1	6.0	10	<1

DATE	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
JAN 1994 05...	2	5	1	760	9	1	<1	<1.0	2	5.0
APR 21...	32	30	<1	240	9	2	<1	<1.0	3	5.0

RIO GRANDE AT ROAD 187 NEAR HATCH, NM (324056107112103)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L AS CACO3) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
JAN 1994 06...	0810	38	1290	8.2	10.0	5.0	653	9.4	87	360	--
APR 21...	1140	1140	745	8.5	26.0	19.5	657	8.4	107	180	27

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JAN 1994 06...	110	21	130	3	5.7	--	--	--	246	300	95
APR 21...	51	13	79	3	5.7	180	4	148	148	130	65

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
JAN 1994 06...	0.60	0.21	16	864	829	0.460	0.040	0.500	0.050	0.15	0.20
APR 21...	0.60	0.070	1.5	453	439	--	<0.010	<0.050	0.020	0.18	0.20

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RIO GRANDE AT ROAD 187 NEAR HATCH, NM (324056107112103)

DATE	PHOS- PHOSPHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON SUS- PENDED TOTAL (MG/L AS C) (00689)	INUM, DIS- SOLVED (UG/L AS AL) (01106)	MONY, DIS- SOLVED (UG/L AS SE) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)
JAN 1994 06...	0.020	<0.010	3.5	--	3	<1	1	78	<1	<1.0	2
APR 21...	<0.010	<0.010	4.6	0.6	9	<1	2	92	<1	<1.0	5

DATE	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
JAN 1994 06...	<1	2	6	1	480	7	<1	<1	<1.0	2	7.0
APR 21...	<1	<1	6	<1	9	6	<1	<1	<1.0	1	3.0

HATCH DRAIN SE OF ROAD 391, NEAR SALEM, NM (324105107122710)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED (MG/L AS O) (00300)	OXYGEN, DIS- SOLVED (MG/L AS O) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
APR 1994 21...	1450	0.42	1080	7.9	26.0	24.0	653	4.6	65	280	68

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ALKA- LITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
APR 1994 21...	86	15	110	3	6.0	254	208	207	230	77	0.90

DATE	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00671)
APR 1994 21...	0.12	19	694	670	0.010	<0.050	0.040	0.26	0.30	0.010	<0.010

DATE	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SE) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)
APR 1994 21...	4.4	0.3	6	<1	2	75	<1	<1.0	6	<1

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

HATCH DRAIN SE OF ROAD 391, NEAR SALEM, NM (324105107122710)

DATE	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
APR 1994 21...	<1	61	<1	460	12	<1	<1	<1.0	1	7.0

HATCH DRAIN AT ROAD 391, NEAR SALEM, NM (324121107124603)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARDS) UNITS (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00301)	HARD- NESS TOTAL (MG/L CACO3) (00900)
JAN 1994 04...	1220	0.13	1100	8.1	15.5	8.0	662	10.4	102	290

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)
JAN 1994 04...	93	15	110	3	5.3	217	230	76	0.80	0.14

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
JAN 1994 04...	21	736	686	0.640	0.050	0.690	0.150	0.25	0.40	0.030

DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)
JAN 1994 04...	0.030	2.7	3	<1	1	110	<1	<1.0	2	<1

DATE	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
JAN 1994 04...	2	4	<1	800	13	2	<1	<1.0	3	10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

GARRFIELD BRANCH AT ROAD 201 NEAR GAYTON, NM (20155151071000)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CAC03 (MG/L) (00904)
APR 1994 20...	1350	14	1390	8.1	34.5	19.5	656	9.9	127	370	110

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3 CAC03) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CAC03) (39086)	ALKA-LINITY LAB (MG/L AS CAC03) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
APR 1994 20...	110	22	160	4	8.7	310	254	250	310	110	1.1

DATE	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
APR 1994 20...	0.17	15	892	892	0.450	0.030	0.480	0.090	0.21	0.30	<0.010

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, SUS-PENDED TOTAL (MG/L AS C) (00689)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)
APR 1994 20...	<0.010	3.9	0.4	4	<1	<1	64	<1	<1.0	6	<1

DATE	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
APR 1994 20...	1	10	<1	33	11	2	<1	<1.0	2	8.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

GARFIELD DRAIN AT ROAD 390 NEAR SALEM, NM (324255107142703)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CAC03 (MG/L) (00904)
JAN 1994 06...	1010	0.16	1590	7.9	14.5	8.0	653	7.5	74	430	--
APR 20...	1600	11	1240	7.5	--	22.5	654	8.8	119	400	120

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CAC03) (39086)	ALKA-LINITY LAB (MG/L AS CAC03) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
JAN 1994 06...	130	26	170	4	7.7	--	--	278	370	120	0.90
APR 20...	120	24	180	4	8.9	344	282	277	360	130	1.3

DATE	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
JAN 1994 06...	0.23	17	1040	1010	0.540	0.030	0.570	0.100	0.20	0.30	0.030
APR 20...	0.21	19	1030	1020	0.500	0.030	0.530	0.110	0.29	0.40	0.010

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC, DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)
JAN 1994 06...	0.020	3.6	--	7	<1	<1	80	<1	<1.0	3	<1
APR 20...	<0.010	4.4	0.7	2	<1	1	70	<1	<1.0	3	<1

DATE	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
JAN 1994 06...	2	6	1	660	10	<1	<1	<1.0	2	8.0
APR 20...	3	11	<1	180	13	1	<1	<1.0	3	9.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

GARFIELD DEPTN SE OF DEERY, NM (324708107164202)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
JAN 1994 04...	0900	0.65	1820	7.8	6.5	5.0	662	4.8	44	260	--
APR 20...	1040	2.0	1410	7.7	--	17.5	656	4.9	60	260	0

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
JAN 1994 04...	70	20	270	7	17	--	--	342	340	150	4.9
APR 20...	71	19	190	5	13	342	280	275	270	120	3.0

DATE	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
JAN 1994 04...	0.19	25	1170	1100	0.510	0.030	0.540	0.100	0.20	0.30	<0.010
APR 20...	0.17	19	856	877	0.560	0.050	0.610	0.070	0.23	0.30	<0.010

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)
JAN 1994 04...	<0.010	2.7	--	3	<1	1	67	<1	<1.0	2	<1
APR 20...	<0.010	3.3	0.5	7	<1	2	73	<1	<1.0	6	<1

DATE	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
JAN 1994 04...	3	15	<1	160	42	3	<1	<1.0	4	20
APR 20...	1	28	<1	290	22	1	<1	<1.0	1	12

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RIO GRANDE 4.9 MI BL ALB. WASTE WATER TREATMENT PLANT, NM (345705106401110)
(CITY R-14)

DATE	TIME	CYANIDE TOTAL (MG/L AS CN) (00720)
JUN 1994 02...	1630	<0.010

ALBUQUERQUE WASTEWATER TREATMENT PLANT OUTFALL ALBUQUERQUE, NM (350104106401110)

DATE	TIME	CYANIDE TOTAL (MG/L AS CN) (00720)
JUN 1994 02...	1130	<0.010
25...	1050	1.6

RIO GRANDE AT HWY 44 AT BERNALILLO, NM (351921106332710)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	CYANIDE TOTAL (MG/L AS CN) (00720)
JUN 1994 01...	1000	4730	<0.010

RIO GRANDE NEAR WHITE ROCK, NM (362019105434610)

DATE	TIME	NITRO- GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO- GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN,NH4 TOTAL + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOS- PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
SEP 1994 26...	1315	<2.0	3.2	320	390

RIO PUEBLO DE TAOS ABOVE MOUTH NEAR TAOS, NM (362019105434610)

DATE	TIME	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	NITRO- GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO- GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN,NH4 TOTAL + ORG. TOT IN BOT MAT (MG/KG AS N) (00626)	PHOS- PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
SEP 1994 11...	1015	15.0	612	8.1	<2.0	11	480	340

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RIO HONDO NEAR MOUTH NEAR ARROYO HONDO. NM (363202105422310)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)
SEP 1994 12...	1315	19	292	8.6	23.5	16.0	605

DATE	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	NITRO- GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	NITRO- GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN, NH4 TOTAL BOT MAT (MG/KG AS N) (00626)	PHOS- PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
SEP 1994 12...	8.2	105	3.0	12	440

RIO GRANDE AT DUNN BRIDGE NEAR ARROYO HONDO, NM (363207105423010)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	BICAR- BONATE WATER DIS IT FIELD HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD CO3 (00452)	ALKA- LITY WAT DIS TOT IT FIELD CACO3 (39086)	
AUG 1994 18...	1700	--	314	8.1	25.0	27.0	600	8.0	129	115	--	94
28...	1245	263	348	8.4	29.0	18.0	605	7.9	106	54	1	46

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

SUNLAND PARK WASTEWATER PLANT AT SUNLAND PARK, NM (314754106332110)

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)
APR 28...	0920	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010	0.042	<0.011

DATE	TIME	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH- OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
APR 28...		<0.008	<0.009	<0.014	<0.022	0.16	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013

DATE	TIME	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
APR 28...		<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012

DATE	TIME	FRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
APR 28...		<0.009	<0.060	<0.008	<0.016	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016

MONTROYA DRAIN AT SUNLAND PARK, NM (314810106324610)

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)
APR 28...	0815	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010	<0.008	<0.011

DATE	TIME	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH- OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
APR 28...		<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

	PHORATE WATER FLTRD 0.7 U	TER- BACIL WATER FLTRD 0.7 U	LIN- URON WATER FLTRD 0.7 U	METHYL PARA- THION WAT FLT 0.7 U	EPTC WATER FLTRD 0.7 U	PEB- ULATE WATER FILTRD 0.7 U	TEBU- THIURON WATER FLTRD 0.7 U	MOL- INATE WATER FLTRD 0.7 U	ETHO- PROP WATER FLTRD 0.7 U	BEN- FLUR- ALIN WAT FLD 0.7 U	CARBO- FURAN WATER FLTRD 0.7 U	TER- BUFOS WATER FLTRD 0.7 U
DATE	GF, REC (UG/L) (82664)	GF, REC (UG/L) (82665)	GF, REC (UG/L) (82666)	GF, REC (UG/L) (82667)	GF, REC (UG/L) (82668)	GF, REC (UG/L) (82669)	GF, REC (UG/L) (82670)	GF, REC (UG/L) (82671)	GF, REC (UG/L) (82672)	GF, REC (UG/L) (82673)	GF, REC (UG/L) (82674)	GF, REC (UG/L) (82675)

APR 28...	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012
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	PRON- AMIDE WATER FLTRD 0.7 U	DISUL- FOTON WATER FLTRD 0.7 U	TRIAL- LATE WATER FLTRD 0.7 U	PRO- PANIL WATER FLTRD 0.7 U	CAR- BARYL WATER FLTRD 0.7 U	THIO- BENCARB WATER FLTRD 0.7 U	DCPA WATER FLTRD 0.7 U	PENDI- METH- ALIN WAT FLT 0.7 U	NAPROP- AMIDE WATER FLTRD 0.7 U	PRO- PARGITE WATER FLTRD 0.7 U	METHYL AZIN- PHOS WAT FLT 0.7 U	PER- METHRIN CIS WAT FLT 0.7 U
DATE	GF, REC (UG/L) (82676)	GF, REC (UG/L) (82677)	GF, REC (UG/L) (82678)	GF, REC (UG/L) (82679)	GF, REC (UG/L) (82680)	GF, REC (UG/L) (82681)	GF, REC (UG/L) (82682)	GF, REC (UG/L) (82683)	GF, REC (UG/L) (82684)	GF, REC (UG/L) (82685)	GF, REC (UG/L) (82686)	GF, REC (UG/L) (82687)

APR 28...	<0.009	<0.060	<0.008	<0.016	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
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NEMEXAS DRAIN AT MEADOWLARK DRIVE NEAR EL PASO, TX (315007106355410)

		PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	PONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P, P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)
DATE	TIME											

APR 28...	1200	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010	<0.008	<0.011
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	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U	TRI- FLUR- ALIN WAT FLT 0.7 U	DIMETH- OATE WATER FLTRD 0.7 U	ETHAL- FLUR- ALIN WAT FLT 0.7 U
DATE									GF, REC (UG/L) (82660)	GF, REC (UG/L) (82661)	GF, REC (UG/L) (82662)	GF, REC (UG/L) (82663)

APR 28...	<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013
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	PHORATE WATER FLTRD 0.7 U	TER- BACIL WATER FLTRD 0.7 U	LIN- URON WATER FLTRD 0.7 U	METHYL PARA- THION WAT FLT 0.7 U	EPTC WATER FLTRD 0.7 U	PEB- ULATE WATER FILTRD 0.7 U	TEBU- THIURON WATER FLTRD 0.7 U	MOL- INATE WATER FLTRD 0.7 U	ETHO- PROP WATER FLTRD 0.7 U	BEN- FLUR- ALIN WAT FLD 0.7 U	CARBO- FURAN WATER FLTRD 0.7 U	TER- BUFOS WATER FLTRD 0.7 U
DATE	GF, REC (UG/L) (82664)	GF, REC (UG/L) (82665)	GF, REC (UG/L) (82666)	GF, REC (UG/L) (82667)	GF, REC (UG/L) (82668)	GF, REC (UG/L) (82669)	GF, REC (UG/L) (82670)	GF, REC (UG/L) (82671)	GF, REC (UG/L) (82672)	GF, REC (UG/L) (82673)	GF, REC (UG/L) (82674)	GF, REC (UG/L) (82675)

APR 28...	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012
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	PRON- AMIDE WATER FLTRD 0.7 U	DISUL- FOTON WATER FLTRD 0.7 U	TRIAL- LATE WATER FLTRD 0.7 U	PRO- PANIL WATER FLTRD 0.7 U	CAR- BARYL WATER FLTRD 0.7 U	THIO- BENCARB WATER FLTRD 0.7 U	DCPA WATER FLTRD 0.7 U	PENDI- METH- ALIN WAT FLT 0.7 U	NAPROP- AMIDE WATER FLTRD 0.7 U	PRO- PARGITE WATER FLTRD 0.7 U	METHYL AZIN- PHOS WAT FLT 0.7 U	PER- METHRIN CIS WAT FLT 0.7 U
DATE	GF, REC (UG/L) (82676)	GF, REC (UG/L) (82677)	GF, REC (UG/L) (82678)	GF, REC (UG/L) (82679)	GF, REC (UG/L) (82680)	GF, REC (UG/L) (82681)	GF, REC (UG/L) (82682)	GF, REC (UG/L) (82683)	GF, REC (UG/L) (82684)	GF, REC (UG/L) (82685)	GF, REC (UG/L) (82686)	GF, REC (UG/L) (82687)

APR 28...	<0.009	<0.060	<0.008	<0.016	<0.046	<0.008	0.004	<0.018	<0.010	<0.008	<0.05	<0.016
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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

EAST SIDE DRAIN AT LEVEE NR ANTHONY, TX (315807106361910)

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)	
APR 27...	2230	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010	<0.008	<0.011	
DATE	TIME	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH- OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
APR 27...	<0.008	<0.009	<0.014	<0.022	E0.004	E0.004	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013	
DATE	TIME	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
APR 27...	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	0.750	<0.012	
DATE	TIME	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
APR 27...	<0.009	<0.060	<0.008	<0.016	<0.046	<0.008	0.019	<0.018	<0.010	<0.008	E0.048	<0.016	

RIO GRANDE AT ROUTE 404 BRIDGE NEAR CHAMBERINO, NM (320122106385510)

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)	
APR 27...	1830	<0.015	<0.008	<0.008	E0.006	<0.005	<0.013	<0.008	<0.007	<0.010	<0.008	<0.011	
DATE		DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH- OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
APR 27...		<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RIO GRANDE AT ROUTE 404 BRIDGE NEAR CHAMBERINO, NM (320122106385510)

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	PROF WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
APR 27...	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012
DATE	FRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
APR 27...	<0.009	<0.060	<0.008	<0.016	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016

LA MESA DRAIN AT LEVEE ROAD NEAR CHAMBERINO, NM (320214106392510)

		PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P, P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)	
APR 27...	1730	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010	<0.008	<0.011	
DATE	TIME	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH- OATE WATER FLTRD 0.7 U GF, REC (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
APR 27...		<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	0.018	<0.006	<0.012	<0.024	<0.013
DATE		PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
APR 27...		<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012
DATE		FRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
APR 27...		<0.009	<0.060	<0.008	<0.016	<0.046	<0.008	0.006	<0.018	<0.010	<0.008	<0.05	<0.016

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

DEL RIO DRAIN AT LEVEE ROAD NEAR VADO, NM (320610106393110)

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)
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APR 27... 1215 <0.015 <0.008 <0.008 <0.008 <0.005 <0.013 <0.008 <0.007 <0.010 <0.008 <0.011

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH- OATE WATER FLTRD 0.7 U GF, REC (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
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APR 27... <0.008 E0.005 <0.014 <0.022 <0.008 <0.017 <0.009 <0.012 <0.006 <0.012 <0.024 <0.013

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
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APR 27... <0.011 <0.030 <0.039 <0.035 <0.005 <0.009 <0.015 <0.007 <0.012 <0.013 <0.013 <0.012

DATE	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
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APR 27... <0.009 <0.060 <0.008 <0.016 <0.046 <0.008 <0.004 <0.018 <0.010 <0.008 <0.05 <0.016

LA MESA DRAIN AT ROUTE 192 NEAR SAN MIGUEL, NM (320936106431710)

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)
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APR 25... 1130 <0.015 <0.008 <0.008 <0.008 <0.005 <0.013 <0.008 <0.007 <0.010

DATE	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)
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APR 25... <0.008 <0.011 <0.008 <0.009 <0.014 <0.022 <0.008 <0.017 <0.009 <0.012

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RIO GRANDE AT ROUTE 192 NEAR SAN MIGUEL, NM (320943106425810)

DATE	2,6-DI-ETHYL-ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH-OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL-PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)
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APR 25...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009
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DATE	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
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APR 25...	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
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DATE	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL-AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	SAM-FLING METHOD, CODES (82398)
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APR 25...	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016	10
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RIO GRANDE AT ROUTE 192 NEAR SAN MIGUEL, NM (320943106425810)

DATE	TIME	PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL-ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)
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APR 27...	0645	<0.015	<0.008	<0.008	E0.007	<0.005	<0.013	<0.008	<0.007	<0.010
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DATE	CHLOR-PYRIFOS DIS (UG/L) (39933)	LINDANE DIS (UG/L) (39341)	DI-ELDRIN DIS (UG/L) (39381)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MALA-THION, DIS (UG/L) (39532)	PARA-THION, DIS (UG/L) (39542)	DI-AZINON, DIS (UG/L) (39572)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
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APR 27...	<0.008	<0.011	<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012
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DATE	2,6-DI-ETHYL-ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH-OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL-PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)
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APR 27...	<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009
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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RIO GRANDE AT ROUTE 192 NEAR SAN MIGUEL, NM (320943106425810)

DATE	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
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APR 27... <0.015 <0.007 <0.012 <0.013 <0.013 <0.012 <0.009 <0.060 <0.008 <0.016

DATE	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	SAM- FLING METHOD, CODES (82398)
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APR 27... <0.046 <0.008 <0.004 <0.018 <0.010 <0.008 <0.05 <0.016 10

SANTO TOMAS RIVER DRAIN AT LEVEE ROAD NEAR SAN MIGUEL, NM (321014106431410)

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)
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APR 27... 0530 <0.015 <0.008 <0.008 <0.008 <0.005 <0.013 <0.008 <0.007 <0.010 <0.008 <0.011

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH- OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
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APR 27... <0.008 <0.009 <0.014 <0.022 <0.008 <0.017 <0.009 <0.012 <0.006 <0.012 <0.024 <0.013

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
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APR 27... <0.011 <0.030 <0.039 <0.035 <0.005 <0.009 <0.015 <0.007 <0.012 <0.013 <0.013 <0.012

DATE	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
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APR 27... <0.009 <0.060 <0.008 <0.016 <0.046 <0.008 <0.004 <0.018 <0.010 <0.008 <0.05 <0.016

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

DEL RIO DRAIN AT FARGO ROAD NEAR SANTA TERESA, NM (3221020011022)

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P, P' DDE DISSOLV (UG/L) (34653)		
APR 25...	1140	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010		
DATE	TIME	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	
APR 25...		<0.008	<0.011	<0.008	EO.005	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012	
DATE	TIME	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH- OATE WATER FLTRD 0.7 U GF, REC (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	
APR 25...		<0.006	<0.012	<0.024	<0.013	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	
DATE	TIME	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	
APR 25...		<0.015	<0.007	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016	
DATE	TIME	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	SAM- PLING METHOD, CODES (82398)		
APR 25...		<0.046	<0.008	0.004	<0.018	<0.010	<0.008	<0.05	<0.016	10		
PICACHO DRAIN NEAR SAN PABLO, NM (321457106492110)												
DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P, P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)
APR 26...	2210	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010	<0.008	<0.011

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

PICACHO DRAIN NEAR SAN PABLO, NM (321457106492110)

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MALA-THION, DIS-SOLVED (UG/L) (39532)	PARA-THION, DIS-SOLVED (UG/L) (39542)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH-OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
APR 26...	<0.008	0.015	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013
DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
APR 26...	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012
DATE	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL-AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
APR 26...	<0.009	<0.060	<0.008	<0.016	<0.046	<0.008	0.004	<0.018	<0.010	<0.008	<0.05	<0.016

RIO GRANDE ABOVE NM 359 BRIDGE AT MESILLA, NM (321601106494110)

DATE	TIME	PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	LINDANE DIS-SOLVED (UG/L) (39341)
APR 26...	2030	<0.015	<0.008	<0.008	0.009	<0.005	<0.013	<0.008	<0.007	<0.010	<0.008	<0.011
DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MALA-THION, DIS-SOLVED (UG/L) (39532)	PARA-THION, DIS-SOLVED (UG/L) (39542)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH-OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
APR 26...	<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013
DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
APR 26...	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RIO GRANDE ABOVE NM 359 BRIDGE AT MESILLA, NM (321601106494110)

DATE	FRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL-AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
APR 26...	<0.009	<0.060	<0.008	<0.016	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016

LAS CRUCES WASTE WATER TREATMENT PLANT AT LEVEE ROAD LAS CRUCES, NM (321739106495110)

DATE	TIME	PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL-ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA-BEC DIS- SOLVED (UG/L) (34253)	P, P' DDE DISSOLV (UG/L) (34653)	CHLOR-PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)
APR 26...	1855	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010	0.19	<0.011

DATE	DI-ELDRIN DIS- SOLVED (UG/L) (39381)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MALA-THION, DIS- SOLVED (UG/L) (39532)	PARA-THION, DIS- SOLVED (UG/L) (39542)	DI-AZINON, DIS- SOLVED (UG/L) (39572)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI-BUZIN WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH-OATE WATER FLTRD 0.7 U GF, REC (UG/L) (82662)	ETHAL-FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
APR 26...	<0.008	<0.009	<0.014	<0.022	0.099	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL-PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
APR 26...	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012

DATE	FRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL-AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
APR 26...	<0.009	<0.060	<0.008	<0.016	E0.044	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RIO GRANDE AT SHALEM BRIDGE NEAR DONA ANA, NM (322234106511710)

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)
APR 26...	1330	<0.015	<0.008	<0.008	E0.007	<0.005	<0.013	<0.008	<0.007	<0.010	<0.008	<0.011

DATE	TIME	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER, DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN WATER, DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH- OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
APR 26...		<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013

DATE	TIME	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
APR 26...		<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012

DATE	TIME	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- FARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
APR 26...		<0.009	<0.060	<0.008	<0.016	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016

SELDEN DRAIN AT LEVEE ROAD NEAR LEASBURG, NM (322541106525110)

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)
APR 26...	1020	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010	<0.008	<0.011

DATE	TIME	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER, DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN WATER, DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH- OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
APR 26...		<0.008	E0.005	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

SELDEN DRAIN AT LEVEL ROAD NEAR LEASBURG, NM (32234110032110)

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
APR 26...	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012

DATE	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
APR 26...	<0.009	<0.060	<0.008	<0.016	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016

RINCON DRAIN AT RIO GRANDE NEAR RINCON, NM (323410106594403)

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	PONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)
JAN 05...	0920	<0.015	<0.008	<0.01	<0.008	<0.02	<0.013	<0.008	<0.007	E0.002	<0.005	<0.011
APR 22...	0800	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	E0.001	<0.008	<0.011

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH- OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
JAN 05...	<0.02	E0.008	<0.010	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.002	<0.024	<0.013
APR 22...	<0.008	E0.003	<0.014	<0.022	E0.004	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
JAN 05...	<0.020	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012
APR 22...	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	0.052	<0.012

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RINCON DRAIN AT RIO GRANDE NEAR RINCON, NM (323410106594403)

DATE	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL-AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
JAN 05...	<0.009	<0.020	<0.008	<0.016	<0.046	<0.008	0.004	<0.018	<0.010	<0.01	<0.04	<0.016
APR 22...	<0.009	<0.060	<0.008	<0.016	<0.046	<0.008	0.17	<0.018	<0.010	<0.008	<0.05	<0.016

RIO GRANDE ABOVE RINCON DRAIN NEAR RINCON, NM (323414106594903)

DATE	TIME	PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL-ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR-PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)
JAN 05...	1150	<0.015	<0.008	<0.01	<0.008	<0.02	<0.013	<0.008	<0.007	<0.010	<0.005	<0.011
APR 22...	0940	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010	<0.008	<0.011

DATE	DI-ELDRIN DIS- SOLVED (UG/L) (39381)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MALA-THION, DIS- SOLVED (UG/L) (39532)	PARA-THION, DIS- SOLVED (UG/L) (39542)	DI-AZINON, DIS- SOLVED (UG/L) (39572)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI-BUZIN WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH-OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL-FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
JAN 05...	<0.02	0.018	<0.010	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013
APR 22...	<0.008	E0.005	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL-PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
JAN 05...	<0.020	<0.030	<0.039	<0.035	E0.003	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012
APR 22...	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012

DATE	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL-AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
JAN 05...	<0.009	<0.020	<0.008	<0.016	<0.046	<0.008	0.004	<0.018	<0.010	<0.01	<0.04	<0.016
APR 22...	<0.009	<0.060	<0.008	<0.016	<0.046	<0.008	0.008	<0.018	<0.010	<0.008	<0.05	<0.016

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RATON CREEK AT RIO GRANDE NEAR HATCH, NM (323931107042003)

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)
JAN 04...	1450	<0.015	<0.008	<0.01	<0.008	<0.02	<0.013	<0.008	<0.007	<0.010	<0.005	<0.011
APR 21...	0730	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010	<0.008	<0.011

		DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U (UG/L) (82661)	DIMETH- OATE WATER FLTRD 0.7 U (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U (UG/L) (82663)
DATE													
JAN	04...	<0.02	0.05	<0.010	<0.022	0.022	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013
APR	21...	<0.008	0.10	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013

	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
DATE												
JAN 04...	<0.020	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012
APR 21...	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	0.037	<0.012

	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL-AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
JAN 04...	<0.009	<0.020	<0.008	<0.016	<0.046	<0.008	0.016	<0.018	<0.010	<0.01	<0.04	<0.016
APR 21...	<0.009	<0.060	<0.008	<0.016	<0.046	<0.008	0.046	<0.018	<0.010	<0.008	<0.05	<0.016

RINCON DRAIN 0.5 MILES EAST OF I 40 NEAR RINCON, NM (323931107042003)

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)
JAN 05...	1430	<0.015	<0.008	<0.01	<0.008	<0.02	<0.013	<0.008	<0.007	<0.010	<0.005	<0.011
APR 21...	1630	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010	<0.008	<0.011

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

RINCON DRAIN 0.5 MILES EAST OF I 40 NEAR RINCON, NM (323931107042003)

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MALA-THION, DIS-SOLVED (UG/L) (39532)	PARA-THION, DIS-SOLVED (UG/L) (39542)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH-OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
JAN 05...	<0.02	<0.009	<0.010	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013
APR 21...	<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013
DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL- PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
JAN 05...	<0.020	<0.030	<0.039	<0.035	E0.001	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012
APR 21...	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	0.047	<0.012
DATE	FRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL-AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
JAN 05...	<0.009	<0.020	<0.008	<0.016	<0.046	<0.008	<0.002	<0.018	<0.010	<0.01	<0.04	<0.016
APR 21...	<0.009	<0.060	<0.008	<0.016	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016

RIO GRANDE AT ROAD 187 NEAR HATCH, NM (324056107112103)

DATE	TIME	PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL- ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	P,P'-DDE DISSOLV (UG/L) (34653)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	LINDANE DIS-SOLVED (UG/L) (39341)
JAN 06...	0810	<0.015	<0.008	<0.01	<0.008	<0.02	<0.013	<0.008	<0.007	<0.010	<0.005	<0.011
APR 21...	1140	<0.015	<0.008	<0.008	0.01	<0.005	<0.013	<0.008	<0.007	<0.010	<0.008	<0.011
DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MALA-THION, DIS-SOLVED (UG/L) (39532)	PARA-THION, DIS-SOLVED (UG/L) (39542)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH-OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
JAN 06...	<0.02	0.024	<0.010	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013
APR 21...	<0.008	<0.009	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
JAN 06...	<0.020	<0.030	<0.039	<0.035	0.010	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012
APR 21...	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012

DATE	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
JAN 06...	<0.009	<0.020	<0.008	<0.016	<0.046	<0.008	0.004	<0.018	<0.010	<0.01	<0.04	<0.016
APR 21...	<0.009	<0.060	<0.008	<0.016	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016

HATCH DRAIN SE OF ROAD 391, NEAR SALEM, NM (324105107122710)

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)
APR 21...	1450	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	EO.001	<0.008	<0.011

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH- OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
APR 21...	<0.008	0.120	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
APR 21...	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	0.019	<0.012

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

HATCH DRAIN SE OF ROAD 391, NEAR SALEM, NM (324105107122710)

DATE	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL-AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
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APR 21...	<0.009	<0.060	<0.008	<0.016	<0.046	<0.008	0.012	0.033	<0.010	<0.008	<0.05	<0.016
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HATCH DRAIN AT ROAD 391, NEAR SALEM, NM (324121107124603)

DATE	TIME	PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL-ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	LINDANE DIS-SOLVED (UG/L) (39341)
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JAN 04...	1220	<0.015	<0.008	<0.01	<0.008	<0.02	<0.013	<0.008	<0.007	<0.010	<0.005	<0.011
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DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MALA-THION, DIS-SOLVED (UG/L) (39532)	PARA-THION, DIS-SOLVED (UG/L) (39542)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH-OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL-FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
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JAN 04...	<0.02	<0.009	<0.010	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013
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DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL-PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
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JAN 04...	<0.020	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012
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DATE	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL-AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
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JAN 04...	<0.009	<0.020	<0.008	<0.016	<0.046	<0.008	<0.004	<0.018	<0.010	<0.01	<0.04	<0.016
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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

GARFIELD DRAIN AT ROAD 301 NEAR SALEM, NM (324154107124602)

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)
APR 20...	1350	<0.015	<0.008	E0.005	<0.008	<0.005	<0.013	<0.008	<0.007	E0.002	0.010	<0.011

DATE	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH- OATE WATER FLTRD 0.7 U GF, REC (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
APR 20...	<0.008	0.020	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
APR 20...	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	0.150	<0.012

DATE	PROM- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
APR 20...	<0.009	<0.010	<0.008	<0.016	<0.046	<0.008	0.056	<0.018	<0.010	<0.008	<0.05	<0.016

GARFIELD DRAIN AT ROAD 390 NEAR SALEM, NM (324255107142703)

DATE	TIME	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER, DISS, REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)
JAN 06...	1010	<0.015	<0.008	<0.01	<0.008	<0.02	<0.013	<0.008	<0.007	<0.010	<0.005	<0.011
APR 20...	1600	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010	E0.005	<0.011

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

GARFIELD DRAIN AT ROAD 390 NEAR SALEM, NM (324255107142703)

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MALA-THION, DIS-SOLVED (UG/L) (39532)	PARA-THION, DIS-SOLVED (UG/L) (39542)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U (UG/L) (82661)	DIMETH-OATE WATER FLTRD 0.7 U (UG/L) (82662)	ETHAL-FLUR-ALIN WAT FLT 0.7 U (UG/L) (82663)
JAN 06...	<0.02	E0.007	<0.010	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013
APR 20...	<0.008	0.013	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL- PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)
JAN 06...	<0.020	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012
APR 20...	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	0.048	<0.012

DATE	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL-AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
JAN 06...	<0.009	<0.020	<0.008	<0.016	<0.046	<0.008	0.01	<0.018	<0.010	<0.01	<0.04	<0.016
APR 20...	<0.009	<0.060	<0.008	<0.016	<0.046	<0.008	0.036	<0.018	<0.010	<0.008	<0.05	<0.016

GARFIELD DRAIN SE OF DERRY, NM (324708107164203)

DATE	TIME	PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL-ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P,P'-DDE DISSOLV (UG/L) (34653)	CHLOR-PYRIFOS DIS- SOLVED (UG/L) (38933)	LINDANE DIS- SOLVED (UG/L) (39341)
JAN 04...	0900	<0.015	<0.008	<0.01	<0.008	<0.02	<0.013	<0.008	<0.007	<0.010	<0.005	<0.011
APR 20...	1040	<0.015	<0.008	<0.008	<0.008	<0.005	<0.013	<0.008	<0.007	<0.010	<0.008	<0.011

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MALA-THION, DIS-SOLVED (UG/L) (39532)	PARA-THION, DIS-SOLVED (UG/L) (39542)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U (UG/L) (82661)	DIMETH-OATE WATER FLTRD 0.7 U (UG/L) (82662)	ETHAL-FLUR-ALIN WAT FLT 0.7 U (UG/L) (82663)
JAN 04...	<0.02	0.062	<0.010	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013
APR 20...	<0.008	0.037	<0.014	<0.022	<0.008	<0.017	<0.009	<0.012	<0.006	<0.012	<0.024	<0.013

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

RIO GRANDE BASIN -- Continued

VARFIELD DRAIN SE OF DENKI, NPI (324/0810/164203)

	PHORATE WATER FLTRD 0.7 U	TER- BACIL WATER FLTRD 0.7 U	LIN- URON WATER FLTRD 0.7 U	METHYL PARA- THION WAT FLT 0.7 U	EPTC WATER FLTRD 0.7 U	PEB- ULATE WATER FLTRD 0.7 U	TEBU- THIURON WATER FLTRD 0.7 U	MOL- INATE WATER FLTRD 0.7 U	ETHO- PROP WATER FLTRD 0.7 U	BEN- FLUR- ALIN WAT FLD 0.7 U	CARBO- FURAN WATER FLTRD 0.7 U	TER- BUFOS WATER FLTRD 0.7 U
DATE	GF, REC (UG/L) (82664)	GF, REC (UG/L) (82665)	GF, REC (UG/L) (82666)	GF, REC (UG/L) (82667)	GF, REC (UG/L) (82668)	GF, REC (UG/L) (82669)	GF, REC (UG/L) (82670)	GF, REC (UG/L) (82671)	GF, REC (UG/L) (82672)	GF, REC (UG/L) (82673)	GF, REC (UG/L) (82674)	GF, REC (UG/L) (82675)
JAN 04...	<0.020	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	<0.013	<0.012
APR 20...	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	<0.012	<0.013	0.018	<0.012

	PRON- AMIDE WATER FLTRD 0.7 U	DISUL- FOTON WATER FLTRD 0.7 U	TRIAL- LATE WATER FLTRD 0.7 U	PRO- PANIL WATER FLTRD 0.7 U	CAR- BARYL WATER FLTRD 0.7 U	THIO- BENCARB WATER FLTRD 0.7 U	DCEA WATER FLTRD 0.7 U	PENDI- METH- ALIN WAT FLT 0.7 U	NAPROP- AMIDE WATER FLTRD 0.7 U	PRO- PARGITE WATER FLTRD 0.7 U	METHYL AZIN- PHOS WAT FLT 0.7 U	PER- METHRIN CIS WAT FLT 0.7 U
DATE	GF, REC (UG/L) (82676)	GF, REC (UG/L) (82677)	GF, REC (UG/L) (82678)	GF, REC (UG/L) (82679)	GF, REC (UG/L) (82680)	GF, REC (UG/L) (82681)	GF, REC (UG/L) (82682)	GF, REC (UG/L) (82683)	GF, REC (UG/L) (82684)	GF, REC (UG/L) (82685)	GF, REC (UG/L) (82686)	GF, REC (UG/L) (82687)
JAN 04...	<0.009	<0.020	<0.008	<0.016	<0.046	<0.008	0.008	<0.018	<0.010	<0.01	<0.04	<0.016
APR 20...	<0.009	<0.010	<0.008	<0.016	<0.046	<0.008	0.007	<0.018	<0.010	<0.008	<0.05	<0.016

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN

Note: The following water-quality tables for miscellaneous sites in the San Juan basin that are identified by 15-digit latitude-longitude site numbers are in order by ascending site numbers as shown in parenthesis after the site names. The inorganic analyses tables are followed by the organic-compound analyses tables for these sites. This departure from the normal downstream order for surface-water sites was taken to facilitate locating these sites in this report and for comparing results for the same group of analyses.

POND AT COTTONWOOD SPRING NR NEWCOMB, NM (363209108242410)

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, SATURATION (PERCENT) (00301)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)
MAR 1994												
07...	1410	4000	8.9	18.0	10.5	613	5.4	61	62	13	7.2	930
JUL												
21...	1330	8320	9.1	--	24.5	--	7.8	--	87	15	12	2100
21...	1410	8520	9.1	--	22.5	--	4.5	--	87	15	12	2100

DATE	SODIUM AD-SORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CaCO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC, DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)
MAR 1994											
07...	51	5.5	967	770	370	11	0.64	3110	2690	4	650
JUL											
21...	98	18	1730	1600	830	25	1.9	5780	5640	17	1600
21...	98	11	1740	1600	820	23	1.1	5900	5630	15	1600

DATE	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY, DIS-SOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANADIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994											
07...	<1.0	2	12	5	<0.1	8	2	15	60	-42.7	-3.01
JUL											
21...	<1.0	<1	17	<1	<0.1	9	2	30	20	22.4	11.92
21...	<1.0	<1	27	<1	<0.1	15	2	29	20	21.7	12.00

STOCK TANK AT COTTONWOOD SPRING NR NEWCOMB, NM (363209108242411)

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM AD-SORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)
JUL 1994											
21...	1430	2240	9.1	24.5	11.7	33	5.5	4.6	480	37	0.80

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

STOCK TANK AT COTTONWOOD SPRING NR NEWCOMB, NM (363209108242510)

DATE	ALKA- LITY (MG/L AS (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	RESIDUE AT 180 DEG. C SOLVED (MG/L) (70300)	SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
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JUL 1994 21...	406	380	180	6.9	0.30	1360	1300	<1	340	<1.0
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DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
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JUL 1994 21...	<1	1	<1	<0.1	11	2	5	<10	-43.8	-2.88
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SEEP AT COTTONWOOD SPRING NR NEWCOMB, NM (363209108242510)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
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MAR 1994 07...	1500	1540	7.7	17.0	7.5	613	7.9	82	73	22	4.5	310
JUL 21...	1500	1470	8.0	--	19.5	--	6.1	--	56	17	3.3	280

DATE	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)
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MAR 1994 07...	16	0.30	331	260	110	3.5	0.21	920	909	<1	180
JUL 21...	16	0.20	334	230	92	4.2	0.10	900	820	<1	220

DATE	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
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MAR 1994 07...	<1.0	1	<1	<1	<0.1	6	3	3	9	-64.3	-8.70
JUL 21...	<1.0	<1	<1	<1	<0.1	9	2	4	4	-66.0	-8.64

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

SUPPLY CANAL 0.2 MI SOUTH OF HWY N3003 NR BLOOMFIELD, NM (363625108052510)
(NAVAJO INDIAN IRRIGATION PROJECT)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
JUL 1994 19...	0815	237	7.6	12.0	9.7	88	26	5.6	11	0.5	1.8

DATE	ALKA- LINIT LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
JUL 1994 19...	77	37	1.6	0.20	<0.010	145	129	<1	20	<1.0

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
JUL 1994 19...	<1	1	<1	<0.1	1	<1	1	<3	-98.6	-13.34

NIIP CENTER PIVOT SPLINKER NR GALLEGOS CANYON NR FARMINGTON, NM (363840108065510)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
JUL 1994 22...	0800	291	8.3	<1	-91.4	-12.13

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

SOUTH SEEP TO POND AT GALLEGOS CANYON DRAINAGE NR FARMINGTON, NM (363841108070110)
(NAVAJO INDIAN IRRIGATION PROJECT)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
MAR 1994												
08...	1110	0.16	2080	7.7	10.0	7.0	616	6.5	67	660	220	27
JUL												
22...	0945	0.24	2190	7.8	--	14.5	--	7.4	--	700	230	30

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)
MAR 1994 08...	230	4	1.6	245	720	80	0.50	0.78	1520	1430	<1	280
JUL 22...	250	4	0.60	283	740	76	0.50	0.80	1630	1500	<1	370

DATE	TIME	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994												
08...		<1.0	1	<1	<1	<0.1	2	20	3	40	-84.1	-10.55
JUL												
22...		<1.0	<1	<1	<1	<0.1	1	18	3	<10	-83.3	-10.55

SOUTH SEEP TO POND AT GALLEGOS CANYON DRAINAGE NR FARMINGTON (363841108070110)
(NAVAJO INDIAN IRRIGATION PROJECT)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
MAR 1994												
08...	1050	0.08	1840	7.7	10.0	6.0	616	6.6	66	480	160	20
JUL												
22...	0910	--	1790	7.3	--	16.0	--	6.9	--	490	160	22

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)
MAR 1994												
08...	250	5	1.2	248	610	75	0.90	0.70	1400	1270	1	310
JUL												
22...	280	6	0.40	278	600	75	1.2	0.75	1450	1310	<1	350

DATE	TIME	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994												
08...		<1.0	<1	2	<1	<0.1	5	17	2	3	-84.3	-10.58
JUL												
22...		<1.0	<1	<1	<1	<0.1	5	17	3	<3	-85.7	-10.58

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

MIDDLE POND-GALLEGOS CANYON DRAINAGE, 0.5 MI NORTH OF HIGHWAY 3003, NM (363841108070210)
(NAVAJO INDIAN IRRIGATION PROJECT)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
MAR 1994												
08...	1020	0.19	2250	7.6	9.0	7.5	616	6.3	66	690	230	27
JUL												
22...	0830	0.14	2220	7.5	--	20.0	--	11.6	--	550	170	30

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)
MAR 1994												
08...	250	4	1.8	214	820	85	0.60	0.85	1660	1540	<1	280
JUL												
22...	290	5	0.70	155	860	88	0.60	0.51	1670	1530	<1	390

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994											
JUL											
22...	<1.0	<1	<1	<1	<0.1	3	13	4	<10	-81.6	-9.78

NORTHEAST SEEP TO POND AT OJO AMARILLO DRAINAGE NR FARMINGTON, NM (363941108190410)
(NAVAJO INDIAN IRRIGATION PROJECT)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	
MAR 1994													
DATE		SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)
MAR 1994	08...	180	3	2.3	219	530	120	0.50	1.0	1300	1180	<1	220

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994											
08...	<1.0	<1	2	<1	<0.1	1	9	4	6	-78.1	-9.75

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

SOUTHWEST POND-OJO AMARILLO CANYON TRIBUTARY DRAINAGE 1.0 MI NORTH OF HIGHWAY 3003, NM (363943108190610)

(NAVAJO INDIAN IRRIGATION PROJECT)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
MAR 1994												
08...	1230	1810	8.4	9.5	9.0	614	10.2	110	560	170	33	190
JUL												
22...	1030	2600	8.7	--	23.5	--	6.3	--	630	170	50	360

DATE	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)
MAR 1994											
08...	3	2.5	212	560	120	0.40	1.1	1280	1200	<1	210
JUL											
22...	6	4.6	110	930	220	0.60	1.7	1940	1800	1	440

DATE	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994											
08...	<1.0	<1	1	<1	<0.1	1	9	4	<3	-77.8	-9.73
JUL											
22...	<1.0	<1	1	<1	<0.1	<1	2	10	<10	-40.3	-0.25

EAST SEEP TO POND AT OJO AMARILLO DRAINAGE NR FARMINGTON, NM (363947108190310)
(NAVAJO INDIAN IRRIGATION PROJECT)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
MAR 1994												
08...	1330	E0.06	1540	7.3	10.5	5.0	614	5.6	55	710	220	38

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)
MAR 1994												
08...	180	3	2.9	237	560	180	0.60	1.8	1430	1330	<1	180

DATE	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994											
08...	<1.0	<1	<1	<1	<0.1	1	7	6	40	-82.7	-10.26

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

N POND AT OJO AMARILLO DRAINAGE NR FARMINGTON, NM (36394710819031)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
JUL 1994 22...	1050	688	7.7	21.5	7.7	250	79	13	47	1	3.2

DATE	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
JUL 1994 22...	96	190	27	0.30	0.12	453	417	<1	70	<1.0

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
JUL 1994 22...	<1	1	<1	<0.1	6	1	3	4	-93.7	-12.64

DRAIN AT MANHOLE 500 FT AB WEST HAMMOND POND NR BLOOMFIELD, NM (364112108015810)
(HAMMOND IRRIGATION PROJECT)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
MAR 1994 09...	1210	1900	7.1	13.5	7.0	623	8.3	85	670	220	29	180
JUL 20...	1320	1630	7.1	--	15.0	--	1.8	--	580	190	26	160

DATE	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)
MAR 1994 09...	3	1.6	316	730	11	0.70	0.090	1460	1360	<1	240
JUL 20...	3	2.4	341	550	9.7	0.60	0.10	1200	1140	<1	270

DATE	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994 09...	<1.0	<1	<1	<1	<0.1	1	3	<1	3	-91.3	-12.17
JUL 20...	<1.0	<1	1	<1	<0.1	3	3	<1	<3	-90.7	-12.29

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
SAN JUAN RIVER BASIN -- Continued

DRAIN AT MANHOLE 200 FT AB WEST HAMMOND POND NR BLOOMFIELD, NM (364115108015810)
(HAMMOND IRRIGATION PROJECT)

DATE	TIME	CIFIC CON- DUCT- ANCE (US/CM) (00095)	WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	(PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	
MAR 1994	09...	1150	2030	7.0	13.5	6.5	623	2.5	25	960	330	33	280
JUL	20...	1300	1900	7.0	--	15.0	--	1.6	--	610	200	26	190
SEP	27...	1300	1950	7.0	--	16.5	628	1.2	15	610	200	27	190

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINIT- LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	BROMIDE DIS- SOLVED (MG/L AS BR)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)
	(00931)	(00935)	(90410)	(00945)	(00940)	(00950)	(71870)	(70300)	(70301)	(01000)	(01020)
MAR 1994											
09...	4	2.5	365	1100	21	0.70	0.14	2080	1990	<1	270
JUL											
20...	3	2.4	373	620	15	0.60	0.13	1360	1280	<1	300
SEP											
27...	3	1.9	397	630	9.0	0.80	0.11	1380	1300	<1	310

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANADIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994	09...	<1.0	<1	<1	<0.1	2	5	<1	10	-89.9	-12.14
JUL 20...	<1.0	<1	1	<1	<0.1	1	2	<1	<3	-90.8	-12.24
SEP 27	<1.0	2	1	<1	<0.1	2	3	<1	<3	-89.5	-12.04

WEST DRAIN AT WEST HAMMOND POND NR BLOOMFIELD, NM (364121108015710)
(HAMMOND IRRIGATION PROJECT)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	
MAR 1994	09...	1020	0.01	2190	7.2	14.0	7.0	623	5.2	53	810	270	32
JUL	20...	1130	0.03	1890	7.2	--	15.0	--	4.6	--	640	210	27

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)
MAR 1994 09...	240	4	2.2	357	890	16	0.70	0.12	1740	1670	<1	280
JUL 20...	200	3	2.6	373	670	14	0.60	0.11	1420	1350	<1	290

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANADIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994	09...	<1.0	<1	<1	<0.1	1	3	<1	20	-90.5	-12.10
JUL 20...	<1.0	<1	1	<1	<0.1	1	3	<1	<3	-90.8	-12.26

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

WEST HAMMOND POND, ABOUT 2.5 MI WEST OF NM HIGHWAY 44, NM (364121108020010)
(HAMMOND IRRIGATION PROJECT)

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED SATURATION (PER-CENT) (00301)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)
MAR 1994												
09...	1040	2010	7.6	13.0	9.0	623	6.0	64	650	210	31	240
JUL												
20...	1030	2150	7.2	--	15.5	--	4.9	--	840	270	41	190
20...	1100	2180	7.2	--	16.0	--	4.4	--	1100	360	50	240

DATE	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CaCO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE, DIS-SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC, DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)
MAR 1994											
09...	4	3.7	329	710	10	0.70	<0.010	1460	1400	1	180
JUL											
20...	3	3.6	307	900	10	0.50	0.10	1660	1600	<1	180
20...	3	4.3	304	1200	5.7	0.60	0.13	2180	2040	1	220

DATE	CADMIUM, DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY, DIS-SOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANADIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994											
09...	<1.0	<1	<1	<1	<0.1	2	<1	1	10	-88.1	-11.58
JUL											
20...	<1.0	<1	<1	<1	<0.1	1	2	<1	<10	--	--
20...	<1.0	1	<1	<1	<0.1	10	3	<1	<10	-89.9	-12.03

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

EAST DRAIN AT WEST HAMMOND POND NR BLOOMFIELD, NM (364122108015810)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED SATUR-ATION (00301)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg) (00925)
MAR 1994												
09...	0950	0.01	1670	7.1	11.5	9.0	623	2.7	29	710	230	34
JUL												
20...	1115	0.32	2000	7.2	--	15.5	--	3.6	--	760	240	39
SEP												
27...	1430	0.06	2200	7.1	15.5	15.5	--	4.5	--	940	300	46

DATE	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CaCO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)
MAR 1994												
09...	240	4	2.7	321	870	10	0.50	0.10	1640	1580	<1	170
JUL												
20...	170	3	3.2	316	820	9.8	0.50	0.090	1570	1470	<1	190
SEP												
27...	230	3	3.9	304	1100	14	0.60	0.14	1990	1880	<1	240

DATE	CADMIUM DIS-SOLVED (UG/L AS Cd) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS Cr) (01030)	COPPER, DIS-SOLVED (UG/L AS Cu) (01040)	LEAD, DIS-SOLVED (UG/L AS Pb) (01049)	MERCURY DIS-SOLVED (UG/L AS Hg) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS Mo) (01060)	SELE-NIUM, DIS-SOLVED (UG/L AS Se) (01145)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS Zn) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994											
09...	<1.0	<1	2	<1	<0.1	<1	2	<1	<10	-88.7	-11.89
JUL											
20...	<1.0	<1	<1	<1	<0.1	1	2	<1	<3	-89.4	-11.92
SEP											
27...	<1.0	3	<1	<1	<0.1	1	4	<1	<10	-89.2	-11.84

HAMMOND CANAL AT HAMMOND CONSERVANCY DISTRICT NEAR BLOOMFIELD, NM (364125107515110)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED SATUR-ATION (00301)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)
SEP 1994												
27...	1630	53	266	8.3	12.0	627	10.7	121	98	29	6.1	14

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CaCO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)
SEP 1994											
27...	0.6	1.8	81	47	1.7	0.20	<0.010	168	148	1	10

DATE	CADMIUM DIS-SOLVED (UG/L AS Cd) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS Cr) (01030)	COPPER, DIS-SOLVED (UG/L AS Cu) (01040)	LEAD, DIS-SOLVED (UG/L AS Pb) (01049)	MERCURY DIS-SOLVED (UG/L AS Hg) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS Mo) (01060)	SELE-NIUM, DIS-SOLVED (UG/L AS Se) (01145)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS Zn) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
SEP 1994											
27...	<1.0	<1	1	<1	<0.1	<1	<1	1	9	-98.4	-13.36

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

SUPPLY CANAL 0.3 MI WEST OF NM HWY 44, NR BLOOMFIELD, NM (364128107594410)
(HAMMOND IRRIGATION PROJECT)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
SEP 1994												
28...	1220	32	256	8.7	12.0	628	10.8	123	97	29	6.0	14
28...	1320	32	248	8.8	13.0	628	11.1	128	97	29	6.0	14

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)
SEP 1994											
28...	0.6	1.7	81	47	1.8	0.20	<0.010	167	148	1	10
28...	0.6	1.7	81	47	1.7	0.20	<0.010	165	148	1	10

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
SEP 1994											
28...	<1.0	<1	1	<1	<0.1	<1	<1	1	<3	-99.9	-13.28
28...	<1.0	<1	1	<1	<0.1	<1	<1	1	<3	-98.8	-13.26

SUPPLY CANAL 100 FT BL BLOOMFIELD REFINERY NR BLOOMFIELD, NM (364148107584310)
(HAMMOND IRRIGATION PROJECT)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
SEP 1994												
28...	1010	33	255	8.4	11.0	628	10.2	112	97	29	6.0	14

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)
SEP 1994											
28...	0.6	1.7	81	47	1.8	0.20	<0.010	163	148	1	20

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
SEP 1994											
28...	<1.0	<1	<1	<1	<0.1	<1	<1	1	8	-98.6	-13.27

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

(HAMMOND IRRIGATION PROJECT)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	
SEP 1994	28...	0800	36	256	7.9	10.5	10.5	628	9.4	103	97	29	6.0

DATE	TIME	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)
SEP 1994	28...	14	0.6	1.7	81	47	1.7	0.20	<0.010	153	148	1	10

DATE	TIME	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
SEP 1994	28...	<1.0	<1	<1	<1	<0.1	<1	<1	1	6	-98.1	-13.29

DRAIN ABOUT 8.0 MILES E OF NM HWY 44, NM (364203107502410)
(HAMMOND IRRIGATION PROJECT)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD) (UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	
MAR 1994	09...	0800	9070	7.4	14.0	6.5	620	2.4	25	1300	380	83	2100
JUL	20...	0800	9600	7.1	--	17.5	--	0.2	--	1500	480	79	2200

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	BROMIDE DIS- SOLVED (MG/L AS BR)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)
	(00931)	(00935)	(90410)	(00945)	(00940)	(00950)	(71870)	(70300)	(70301)	(01000)	(01020)
MAR 1994 09...	25	5.7	443	5400	58	1.1	0.13	8480	8290	2	350
JUL 20...	25	4.6	546	5400	69	1.4	0.020	8600	8560	2	610

DATE	TIME	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994	09...	<1.0	<1	<1	<1	<0.1	<1	<1	3	20	-88.2	-11.77
JUL 20...	<1.0	2	<1	<4	<0.1	<1	<1	<1	5	10	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

FRUITLAND PROJECT IRRIGATION DRAIN 300 FT ABOVE WETLAND NR FRUITLAND, NM (364332108223410)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
MAR 1994 08...	1530	0.19	5980	8.3	15.0	12.0	625	7.9	91	850	230	66

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)
MAR 1994 08...	1200	18	4.0	430	2700	170	1.4	0.33	4660	4630	1	370

DATE	TIME	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994 08...		<1.0	<1	1	<1	<0.1	9	<1	6	30	-93.7	-12.61

WETLAND SOUTH SIDE OF SAN JUAN RIVER 2.0 MI UPSTREAM FROM FRUITLAND BRIDGE, NM (364333108223410)
(FRUITLAND IRRIGATION PROJECT)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
MAR 1994 08...	1515	--	5220	8.2	15.0	11.5	625	7.1	81	790	220	59

JUL 21...	1000	1.1	3240	7.5	--	18.0	--	0.1	--	460	130	33
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DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)
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JUL 21...	640	13	2.6	319	1300	89	1.2	0.17	2480	2390	2	220
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DATE	TIME	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994 08...		<1.0	<1	<1	<1	<0.1	7	<1	5	40	-93.9	-12.56
JUL 21...		<1.0	<1	<1	<1	<0.1	5	<1	4	<10	-97.3	-12.87

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
JUL 1994 27...	0900	634	7.5	18.5	7.2	210	65	11	44	1	3.1

DATE	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
JUL 1994 27...	142	150	13	0.30	0.030	402	372	2	60	<1.0

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
JUL 1994 27...	<1	2	<1	<0.1	2	<1	1	5	-97.9	-13.22

MARSH DRAINING FRUITLAND IRRIGATION PROJECT AT HOGBACK NR WATERFLOW, NM (364439108320610)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)
JUL 1994 26...	1400	0.03	1610	7.1	23.0	1.8	680	190	49	85	1

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
JUL 1994 26...	4.8	278	580	26	0.60	0.14	1190	1100	4	170	<1.0

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
JUL 1994 26...	<1	<1	<1	<0.1	3	<1	2	9	-92.2	-12.08

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

SAN JUAN RIVER BACKWATER AT HOGBACK DIVERSION DAM NR WATERFLOW, NM (364442108315910)

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)
JUL 1994 26...	1440	2350	7.1	27.5	7.8	1200	340	82	230	3	4.2

DATE	TIME	ALKALINITY LAB (MG/L AS CaCO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
JUL 1994 26...	347	1000	170	0.40	0.27	2140	2040	2	180	<1.0	

DATE	TIME	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANADIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
JUL 1994 26...		1	<1	<1	<0.1	<1	<1	3	40	-93.8	-12.34

EAST DITCH 300 FT AB SAN JUAN R NR WATERFLOW, NM (364524108354110)
(HOGBACK IRRIGATION PROJECT)

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, SATURATION (00301)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg) (00925)
MAR 1994 10...	0950	0.08	2250	7.9	12.5	5.5	639	9.2	88	1100	240	120
JUL 27...	1315	1.2	2110	7.8	--	25.0	--	13.3	--	990	230	100

DATE	TIME	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CaCO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)
MAR 1994 10...	180	2	3.6	301	1100	38	0.40	0.050	2000	1860		1	290
JUL 27...	140	2	4.9	276	920	26	0.40	0.12	1760	1590		2	280

DATE	TIME	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANADIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994 10...		<1.0	<1	<1	<1	<0.1	5	11	1	10	-95.0	-12.56
JUL 27...		<1.0	<1	<1	<1	<0.1	6	7	2	<10	-96.5	-13.01

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

EAST DITCH 0.6 MI AB SAN JUAN RIVER NR WATERFLOW, NM (364527108352010)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
MAR 1994												
10...	0850	0.09	2380	7.5	6.0	5.0	639	7.5	71	1200	260	130
10...	0910	0.09	2380	7.5	6.5	5.0	639	7.4	70	1200	260	130
JUL 27...	1200	1.2	2130	7.3	--	21.0	--	5.7	--	990	230	100

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CAC03) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)
MAR 1994												
10...	190	2	3.7	348	1100	41	0.50	0.060	2140	1930	1	310
10...	190	2	3.7	338	1100	38	0.50	0.060	2160	1930	<1	310
JUL 27...	140	2	5.4	284	910	22	0.40	0.080	1740	1580	1	290

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994											
10...	<1.0	<1	<1	<1	<0.1	6	14	1	20	-96.1	-12.83
10...	<1.0	<1	<1	<1	<0.1	5	13	1	<10	-96.7	-12.85
JUL 27...	<1.0	<1	<1	<1	<0.1	5	9	1	<10	-98.1	-13.08

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

DRAIN 2.5 MI WEST OF THE HOGBACK, 0.25 MILE ABOVE WETLAND, NM (364532108350210)
(HOGBACK IRRIGATION PROJECT)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
JUL 1994											
27...	1520	2640	7.2	20.5	8.5	1400	330	140	130	2	6.8
27...	1535	2640	7.1	20.5	7.8	1400	330	150	140	2	7.4

DATE	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
JUL 1994										
27...	307	1200	24	0.40	0.13	2220	2020	1	380	<1.0
27...	307	1200	23	0.40	0.15	2240	2040	1	370	<1.0

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
JUL 1994										
27...	<1	<1	<1	<0.1	5	10	<1	<10	-99.6	-13.27
27...	<1	<1	<1	<0.1	5	10	<1	<10	-97.6	-13.36

HOGBACK IRRIGATION SUPPLY CANAL NR WATERFLOW, NM (364545108350610)

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)
JUL 1994											
27...	1400	111	594	7.8	21.5	7.2	170	54	8.5	51	2

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
JUL 1994											
27...	3.4	126	150	10	0.30	0.060	383	353	1	50	<1.0

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
JUL 1994										
27...	2	2	<1	<0.1	2	<1	2	8	-95.7	-12.91

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L) AS CACO3 (00900)	CALCIUM DIS- SOLVED (MG/L) AS CA (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K (00935)
JUL 1994 18...	1450	261	8.3	7.0	11.6	97	29	6.0	12	0.5	1.6

DATE	ALKA- LINITY LAB (MG/L) AS CACO3 (90410)	SULFATE DIS- SOLVED (MG/L) AS SO4 (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL (00940)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F (00950)	BROMIDE DIS- SOLVED (MG/L) AS BR (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L) AS AS (01000)	BORON, DIS- SOLVED (UG/L) AS B (01020)	CADMIUM DIS- SOLVED (UG/L) AS CD (01025)
JUL 1994 18...	77	45	1.6	0.10	<0.010	156	141	1	20	<1.0

DATE	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR (01030)	COPPER, DIS- SOLVED (UG/L) AS CU (01040)	LEAD, DIS- SOLVED (UG/L) AS PB (01049)	MERCURY DIS- SOLVED (UG/L) AS HG (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L) AS MO (01060)	SELE- NIUM, DIS- SOLVED (UG/L) AS SE (01145)	VANA- DIUM, DIS- SOLVED (UG/L) AS V (01085)	ZINC, DIS- SOLVED (UG/L) AS ZN (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
JUL 1994 18...	<1	1	<1	<0.1	<1	<1	1	<3	-99.8	-13.36

WETLAND ON S BANK SAN JUAN R 0.9 MI BL NAVAJO DAM, NR ARCHULETA, NM (364820107373410)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L) AS CACO3 (00900)	CALCIUM DIS- SOLVED (MG/L) AS CA (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K (00935)
JUL 1994 19...	1300	410	7.0	13.0	4.3	110	34	6.4	13	0.5	1.9

DATE	ALKA- LINITY LAB (MG/L) AS CACO3 (90410)	SULFATE DIS- SOLVED (MG/L) AS SO4 (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL (00940)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F (00950)	BROMIDE DIS- SOLVED (MG/L) AS BR (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L) AS AS (01000)	BORON, DIS- SOLVED (UG/L) AS B (01020)	CADMIUM DIS- SOLVED (UG/L) AS CD (01025)
JUL 1994 19...	81	58	1.7	0.20	0.010	177	164	1	20	<1.0

DATE	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR (01030)	COPPER, DIS- SOLVED (UG/L) AS CU (01040)	LEAD, DIS- SOLVED (UG/L) AS PB (01049)	MERCURY DIS- SOLVED (UG/L) AS HG (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L) AS MO (01060)	SELE- NIUM, DIS- SOLVED (UG/L) AS SE (01145)	VANA- DIUM, DIS- SOLVED (UG/L) AS V (01085)	ZINC, DIS- SOLVED (UG/L) AS ZN (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
JUL 1994 19...	<1	1	<1	<0.1	<1	<1	1	<3	-99.2	-13.32

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

SAN JUAN R 0.6 MI BL NAVAJO DAM NR ARCHULETA, NM (364835107370410)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
JUL 1994 28...	0910	3310	7.3	18.0	4.5	1900	590	110	230	2	3.6

DATE	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
JUL 1994 28...	179	1800	22	0.40	0.41	2990	2860	<1	140	<1.0

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
JUL 1994 28...	1	<1	<1	<0.1	8	<1	<1	60	-96.5	-12.90

SAN JUAN R 3.1 MI BL NAVAJO DAM, NR ARCHULETA, NM (364919107385710)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
JUL 1994 19...	1000	262	7.3	12.0	8.5	95	28	6.0	12	0.5	1.9

DATE	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
JUL 1994 19...	78	40	1.7	0.10	<0.010	162	136	1	20	<1.0

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
JUL 1994 19...	<1	1	<1	<0.1	<1	<1	1	7	-99.0	-13.34

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

CUDEI IRRIGATION DITCH AT TURNOUT FROM SAN JUAN R NR CUDEI, NM (36502110844710)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HAKO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
MAR 1994												
09...	1530	26	700	8.2	15.0	9.5	640	7.5	79	240	70	17
JUL												
26...	0900	13	483	7.9	--	21.0	--	7.6	--	160	48	8.8

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM, AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)
MAR 1994												
09...	46	1	2.9	134	200	16	0.30	0.030	467	433	1	70
JUL												
26...	37	1	2.6	111	120	9.1	0.30	0.090	315	292	2	40

DATE	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAR 1994											
09...	<1.0	<1	1	<1	<0.1	1	1	<1	5	-101.0	-13.42
JUL											
26...	<1.0	<1	2	<1	<0.1	1	<1	2	<3	-96.9	-12.99

CUDEI IRRIGATION PROJECT DRAINWATER NR CUDEI, NM (365210108475310)

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM, AD-SORP-TION RATIO (00931)
JUL 1994											
26...	1115	0.09	1070	7.4	20.5	7.0	420	130	24	61	1
DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
JUL 1994											
26...	3.0	213	320	13	0.40	0.070	738	679	1	100	<1.0

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
JUL 1994										
26...	<1	1	<1	<0.1	3	<1	2	<3	-94.2	-12.66

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

DRAIN AT MANHOLE 200 FT AB WEST HAMMOND POND NR BLOOMFIELD, NM (364115108015810)
(HAMMOND IRRIGATION PROJECT)

DATE	TIME	ACE-NAPHTH-YLENE TOTAL (UG/L) (34200)	ACE-NAPHTH-ENE TOTAL (UG/L) (34205)	ANTHRA-CENE TOTAL (UG/L) (34220)	BENZO B FLUOR-AN-THENE TOTAL (UG/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (UG/L) (34242)	BENZO-A-PYRENE TOTAL (UG/L) (34247)	BIS 2-CHLORO-ETHYL ETHER TOTAL (UG/L) (34273)	BIS (2-CHLORO-ETHOXY) METHANE TOTAL (UG/L) (34278)	BIS (2-CHLORO-ISO-PROPYL) ETHER TOTAL (UG/L) (34283)	N-BUTYL BENZYL PHTHAL-ATE TOTAL (UG/L) (34292)	CHRY-SENE TOTAL (UG/L) (34320)	
SEP 27...	1300	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0	<10.0	
DATE		DIETHYL PHTHAL-ATE TOTAL (UG/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (UG/L) (34341)	FLUOR-ANTHENE TOTAL (UG/L) (34376)	FLUOR-ENE TOTAL (UG/L) (34381)	HEXA-CHLORO-CYCLO-PENT-ADIENE TOTAL (UG/L) (34386)	HEXA-CHLORO-ETHANE TOTAL (UG/L) (34396)	INDENO (1,2,3-CD) PYRENE TOTAL (UG/L) (34403)	ISO-PHORONE TOTAL (UG/L) (34408)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (UG/L) (34428)	N-NITRO-SODI-PHENYL-LAMINE TOTAL (UG/L) (34433)	N-NITRO-SODI-METHYL-LAMINE TOTAL (UG/L) (34438)	NITRO-BENZENE TOTAL (UG/L) (34447)
SEP 27...		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0
DATE		PARA-CHLORO-META-CRESOL TOTAL (UG/L) (34452)	PHENAN-THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	BENZOGH I PERYL ENE1,12-BENZOP-ERYLENE TOTAL (UG/L) (34521)	BENZO A ANTHRAC-ENE1,2-BENZANT HRACENE TOTAL (UG/L) (34526)	BENZENE O-CHLORO-WATER UNFLTRD REC TOTAL (UG/L) (34536)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC TOTAL (UG/L) (34551)	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (UG/L) (34556)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC TOTAL (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC TOTAL (UG/L) (34571)	2-CHLORO-NAPH-THALENE TOTAL (UG/L) (34581)	2-CHLORO-PHENOL TOTAL (UG/L) (34586)
SEP 27...		<30.0	<5.0	<5.0	<10.0	<10.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0
DATE		2-NITRO-PHENOL TOTAL (UG/L) (34591)	DI-N-OCTYL PHTHAL-ATE TOTAL (UG/L) (34596)	2,4-DI-CHLORO-PHENOL TOTAL (UG/L) (34601)	2,4-DI-METHYL-PHENOL TOTAL (UG/L) (34606)	2,4-DI-NITRO-TOLUENE TOTAL (UG/L) (34611)	2,4-DI-NITRO-PHENOL TOTAL (UG/L) (34616)	2,4,6-TRI-CHLORO-PHENOL TOTAL (UG/L) (34621)	2,6-DI-NITRO-TOLUENE TOTAL (UG/L) (34626)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (UG/L) (34631)	4-BROMO-PHENYL-ETHER TOTAL (UG/L) (34636)	4-CHLORO-PHENYL-ETHER TOTAL (UG/L) (34641)	
SEP 27...		<5.0	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	
DATE		4-NITRO-PHENOL TOTAL (UG/L) (34646)	4,6-DINITRO-ORTHOCRESOL TOTAL (UG/L) (34657)	PHENOL (C6H-5OH) TOTAL (UG/L) (34694)	NAPHTH-ALENE TOTAL (UG/L) (34696)	PENTA-CHLORO-PHENOL TOTAL (UG/L) (39032)	BIS(2-ETHYL-HEXYL) PHTHAL-ATE TOTAL (UG/L) (39100)	DI-N-BUTYL PHTHAL-ATE TOTAL (UG/L) (39110)	BENZI-DINE TOTAL (UG/L) (39120)	HEXA-CHLORO-BENZENE TOTAL (UG/L) (39700)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (UG/L) (82626)	
SEP 27...		<30.0	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<40.0	<5.0	<5.0	<5.0	

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

(HAMMOND IRRIGATION PROJECT)

DATE	TIME	ACE-NAPHTH-YLENE BOT.MAT (UG/KG) (34203)	ACE-NAPHTH-ENE BOT.MAT (UG/KG) (34208)	ANTHRA-CENE BOT.MAT (UG/KG) (34223)	BENZO B-FLUOR-AN-THENE BOT.MAT (UG/KG) (34233)	BENZO K-FLUOR-AN-THENE BOT.MAT (UG/KG) (34245)	BENZO-A-PYRENE BOT.MAT (UG/KG) (34250)	BIS (2-CHLORO-ETHYL) ETHER BOT.MAT (UG/KG) (34276)	BIS (2-CHLORO-ETHOXY) METHANE BOT.MAT (UG/KG) (34281)	BIS (2-CHLORO-ISO-PROPYL) ETHER BOT.MAT (UG/KG) (34286)	N-BUTYL BENZYL PHTHAL-ATE BOT.MAT (UG/KG) (34295)
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SEP 27...	1300	<200	<200	<200	<400	<400	<400	<200	<200	<200	<200
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DATE	CHRY-SENE BOT.MAT (UG/KG) (34323)	DIETHYL PHTHAL-ATE BOT.MAT (UG/KG) (34339)	DI-METHYL PHTHAL-ATE BOT.MAT (UG/KG) (34344)	FLUOR-ANTHENE BOT.MAT (UG/KG) (34379)	FLUOR-ENE BOT.MAT (UG/KG) (34384)	HEXA-CHLORO-CYCLO-PENT-ADIENE BOT.MAT (UG/KG) (34389)	HEXA-CHLORO-ETHANE BOT.MAT (UG/KG) (34399)	INDENO (1,2,3-CD) PYRENE BOT.MAT (UG/KG) (34406)	ISO-PHORONE BOT.MAT (UG/KG) (34411)	N-NITRO-SODI-N-PROPYL-AMINE BOT.MAT (UG/KG) (34431)	N-NITRO-SODI-N-PHENY-LAMINE BOT.MAT (UG/KG) (34436)
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SEP 27...	<400	<200	<200	<200	<200	<200	<200	<400	<200	<200	<200
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DATE	N-NITRO-SODI-METHY-LAMINE BOT.MAT (UG/KG) (34441)	NAPHTH-ALENE BOT.MAT (UG/KG) (34445)	NITRO-BENZENE BOT.MAT (UG/KG) (34450)	PARA-CHLORO-META-CRESOL BOT.MAT (UG/KG) (34455)	PHENAN-THRENE BOT.MAT (UG/KG) (34464)	PYRENE BOT.MAT (UG/KG) (34472)	BENZOGH I PERYL-ENE1, 12-BENZOF-ERYLENE BOT.MAT (UG/KG) (34524)	BENZO A-ANTHRAC-ENE1, 2-BENZANT-HRACENE BOT.MAT (UG/KG) (34529)	1,2-DI-CHLORO-BENZENE BOT.MAT (UG/KG) (34539)	1,2,4-TRI-CHLORO-BENZENE BOT.MAT (UG/KG) (34554)	1,2,5,6-DIBENZ-ANTHRA-CENE BOT.MAT (UG/KG) (34559)
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SEP 27...	<200	<200	<200	<600	<200	<200	<400	<400	<200	<200	<400
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DATE	1,3-DI-CHLORO-BENZENE BOT.MAT (UG/KG) (34569)	1,4-DI-CHLORO-BENZENE BOT.MAT (UG/KG) (34574)	2-CHLORO-NAPH-THALENE BOT.MAT (UG/KG) (34584)	2-CHLORO-PHENOL BOT.MAT (UG/KG) (34589)	2-NITRO-PHENOL BOT.MAT (UG/KG) (34594)	DI-N-OCTYL-PHTHAL-ATE BOT.MAT (UG/KG) (34599)	2,4-DI-CHLORO-PHENOL BOT.MAT (UG/KG) (34604)	2,4-DP, IN-BOTTOM BOT.MAT (UG/KG) (34609)	2,4-DI-NITRO-TOLUENE BOT.MAT (UG/KG) (34614)	2,4-DI-NITRO-PHENOL BOT.MAT (UG/KG) (34619)	2,4,6-TRI-CHLORO-PHENOL BOT.MAT (UG/KG) (34624)
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SEP 27...	<200	<200	<200	<200	<200	<400	<200	<200	<200	<600	<600
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DATE	2,6-DI-NITRO-TOLUENE BOT.MAT (UG/KG) (34629)	4-BROMO-PHENYL-PHENYL ETHER BOT.MAT (UG/KG) (34639)	4-CHLORO-PHENYL ETHER BOT.MAT (UG/KG) (34644)	4-NITRO-PHENOL BOT.MAT (UG/KG) (34649)	4,6-DINITRO-ORTHO-CRESOL BOT.MAT (UG/KG) (34660)	PHENOL (C6H-5OH) BOT.MAT (UG/KG) (34695)	PENTA-CHLORO-PHENOL BOT.MAT (UG/KG) (39061)	BIS(2-ETHYL-HEXYL) PHTHAL-ATE BOT.MAT (UG/KG) (39102)	DI-N-BUTYL-PHTHAL-ATE BOT.MAT (UG/KG) (39112)	HEXA-CHLORO-BENZENE-TOT, IN-BOTTOM BOT.MAT (UG/KG) (39701)	HEXA-CHLORO-BUT-ADIENCE BOT.MAT (UG/KG) (39705)
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SEP 27...	<200	<200	<200	<600	<600	<200	<600	<200	<200	<200	<200
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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

EAST DRAIN AT WEST HAMMOND POND NR BLOOMFIELD, NM (364122108015810)
(HAMMOND IRRIGATION PROJECT)

DATE	TIME	ACE-NAPHTH- YLENE TOTAL (UG/L) (34200)	ACE-NAPHTH- ENE TOTAL (UG/L) (34205)	ANTHRA- CENE TOTAL (UG/L) (34220)	BENZO B FLUOR- AN- THENE TOTAL (UG/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (UG/L) (34242)	BENZO- A- PYRENE TOTAL (UG/L) (34247)	BIS 2- CHLORO- ETHYL ETHER TOTAL (UG/L) (34273)	BIS (2- CHLORO- ETHOXY) METHANE TOTAL (UG/L) (34278)	BIS (2- CHLORO- ISO- PROPYL) ETHER TOTAL (UG/L) (34283)	N-BUTYL BENZYL PHTHAL- ATE TOTAL (UG/L) (34292)	CHRY- SENE TOTAL (UG/L) (34320)	
SEP 27...	1430	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0	<10.0	
DATE		DIETHYL PHTHAL- ATE TOTAL (UG/L) (34336)	DI- METHYL PHTHAL- ATE TOTAL (UG/L) (34341)	FLUOR- ANTHENE TOTAL (UG/L) (34376)	FLUOR- ENE TOTAL (UG/L) (34381)	HEXA- CHLORO- CYCLO- PENT- ADIENE TOTAL (UG/L) (34386)	HEXA- CHLORO- ETHANE TOTAL (UG/L) (34396)	INDENO (1,2,3- CD) PYRENE TOTAL (UG/L) (34403)	ISO- PHORONE TOTAL (UG/L) (34408)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (UG/L) (34428)	N-NITRO- SODI- PHENY- LAMINE TOTAL (UG/L) (34433)	N-NITRO METHY- LAMINE TOTAL (UG/L) (34438)	NITRO- BENZENE TOTAL (UG/L) (34447)
SEP 27...	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0
DATE		PARA- CHLORO- META CRESOL TOTAL (UG/L) (34452)	PHENAN- THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	BENZOGH I PERYL ENE1,12 -BENZOP ERYLENE TOTAL (UG/L) (34521)	BENZO A ANTHRAC ENE1,2- BENZANT HRACENE TOTAL (UG/L) (34526)	BENZENE O- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (UG/L) (34556)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	2- CHLORO- NAPH- THALENE TOTAL (UG/L) (34581)	2- CHLORO- PHENOL TOTAL (UG/L) (34586)
SEP 27...	<30.0	<5.0	<5.0	<10.0	<10.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0
DATE		2- NITRO- PHENOL TOTAL (UG/L) (34591)	DI-N- OCTYL PHTHAL- ATE TOTAL (UG/L) (34596)	2,4-DI- CHLORO- PHENOL TOTAL (UG/L) (34601)	2,4-DI- METHYL- PHENOL TOTAL (UG/L) (34606)	2,4-DI- NITRO- TOLUENE TOTAL (UG/L) (34611)	2,4- DI- NITRO- PHENOL TOTAL (UG/L) (34616)	2,4,6- TRI- CHLORO- PHENOL TOTAL (UG/L) (34621)	2,6-DI- NITRO- TOLUENE TOTAL (UG/L) (34626)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (UG/L) (34631)	4- BROMO- PHENYL PHENYL ETHER TOTAL (UG/L) (34636)	4- CHLORO- PHENYL ETHER TOTAL (UG/L) (34641)	
SEP 27...	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	
DATE		4- NITRO- PHENOL TOTAL (UG/L) (34646)	4,6- DINITRO -ORTHO- CRESOL TOTAL (UG/L) (34657)	PHENOL (C6H- 5OH) TOTAL (UG/L) (34694)	NAPHTH- ALENE TOTAL (UG/L) (34696)	PENTA- CHLORO- PHENOL TOTAL (UG/L) (39032)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (UG/L) (39100)	DI-N- BUTYL PHTHAL- ATE TOTAL (UG/L) (39110)	BENZI- DINE TOTAL (UG/L) (39120)	HEXA- CHLORO- BENZENE TOTAL (UG/L) (39700)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L) (39702)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT REC (UG/L) (82626)	
SEP 27...	<30.0	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<5.0	<40.0	<5.0	<5.0	<5.0	

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

EAST DRAIN AT WEST HAMMOND POND NR BLOOMFIELD, NM (364122108015810)

DATE	TIME	ACE-NAPHTH-YLENE BOT. MAT (UG/KG) (34203)	ACE-NAPHTH-ENE BOT. MAT (UG/KG) (34208)	ANTHRA-CENE BOT. MAT (UG/KG) (34223)	BENZO B-FLUOR-AN-THENE BOT. MAT (UG/KG) (34233)	BENZO K-FLUOR-AN-THENE BOT. MAT (UG/KG) (34245)	BENZO-A-PYRENE BOT. MAT (UG/KG) (34250)	BIS (2-CHLORO-ETHYL) ETHER BOT. MAT (UG/KG) (34276)	BIS (2-CHLORO-ETHOXY) METHANE BOT. MAT (UG/KG) (34281)	BIS (2-CHLORO-ISO-PROPYL) ETHER BOT. MAT (UG/KG) (34286)	N-BUTYL BENZYL PHTHAL-ATE BOT. MAT (UG/KG) (34295)
SEP 27...	1430	<200	<200	<200	<400	<400	<400	<200	<200	<200	<200
DATE	CHRY-SENE BOT. MAT (UG/KG) (34323)	DIETHYL PHTHAL-ATE BOT. MAT (UG/KG) (34339)	DI-METHYL PHTHAL-ATE BOT. MAT (UG/KG) (34344)	FLUOR-ANTHENE BOT. MAT (UG/KG) (34379)	FLUOR-ENE BOT. MAT (UG/KG) (34384)	HEXA-CHLORO-CYCLO-PENT-ADIENE BOT. MAT (UG/KG) (34389)	HEXA-CHLORO-ETHANE BOT. MAT (UG/KG) (34399)	INDENO (1,2,3-CD) PYRENE BOT. MAT (UG/KG) (34406)	ISO-PHORONE BOT. MAT (UG/KG) (34411)	N-NITRO-SODI-N-PROPYL-AMINE BOT. MAT (UG/KG) (34431)	N-NITRO-SODI-N-PHENY-LAMINE BOT. MAT (UG/KG) (34436)
SEP 27...	<400	<200	<200	<200	<200	<200	<200	<400	<200	<200	<200
DATE	N-NITRO-SODI-METHY-LAMINE BOT. MAT (UG/KG) (34441)	NAPHTH-ALENE BOT. MAT (UG/KG) (34445)	NITRO-BENZENE BOT. MAT (UG/KG) (34450)	PARA-CHLORO-META-CRESOL BOT. MAT (UG/KG) (34455)	PHENAN-THRENE BOT. MAT (UG/KG) (34464)	PYRENE BOT. MAT (UG/KG) (34472)	BENZOGH I PERYL-ENE1,12-BENZOP-ERYLENE BOT. MAT (UG/KG) (34524)	BENZO A ANTHRAC-ENE1,2-BENZANT HRACENE BOT. MAT (UG/KG) (34529)	1,2-DI-CHLORO-BENZENE BOT. MAT (UG/KG) (34539)	1,2,4-TRI-CHLORO-BENZENE BOT. MAT (UG/KG) (34554)	1,2,5,6-DIBENZ-ANTHRA-CENE BOT. MAT (UG/KG) (34559)
SEP 27...	<200	<200	<200	<600	<200	<200	<400	<400	<200	<200	<400
DATE	1,3-DI-CHLORO-BENZENE BOT. MAT (UG/KG) (34569)	1,4-DI-CHLORO-BENZENE BOT. MAT (UG/KG) (34574)	2-CHLORO-NAPH-THALENE BOT. MAT (UG/KG) (34584)	2-CHLORO-PHENOL BOT. MAT (UG/KG) (34589)	2-NITRO-PHENOL BOT. MAT (UG/KG) (34594)	DI-N-OCTYL PHTHAL-ATE BOT. MAT (UG/KG) (34599)	2,4-DI-CHLORO-PHENOL BOT. MAT (UG/KG) (34604)	2,4-DP, IN BOTTOM BOT. MAT (UG/KG) (34609)	2,4-DI-NITRO-TOLUENE BOT. MAT (UG/KG) (34614)	2,4-DI-NITRO-PHENOL BOT. MAT (UG/KG) (34619)	2,4,6-TRI-CHLORO-PHENOL BOT. MAT (UG/KG) (34624)
SEP 27...	<200	<200	<200	<200	<200	<400	<200	<200	<200	<600	<600
DATE	2,6-DI-NITRO-TOLUENE BOT. MAT (UG/KG) (34629)	4-BROMO-PHENYL ETHER BOT. MAT (UG/KG) (34639)	4-CHLORO-PHENYL ETHER BOT. MAT (UG/KG) (34644)	4-NITRO-PHENOL BOT. MAT (UG/KG) (34649)	4,6-DINITRO-ORTHO-CRESOL BOT. MAT (UG/KG) (34660)	PHENOL (C6H-5OH) BOT. MAT (UG/KG) (34695)	PENTA-CHLORO-PHENOL BOT. MAT (UG/KG) (39061)	BIS(2-ETHYL-HEXYL) PHTHAL-ATE BOT. MAT (UG/KG) (39102)	DI-N-BUTYL PHTHAL-ATE BOT. MAT (UG/KG) (39112)	HEXA-CHLORO-BENZENE TOT. IN BOTTOM MATL. BOT. MAT (UG/KG) (39701)	HEXA-CHLORO-BUT-ADIENCE BOT. MAT (UG/KG) (39705)
SEP 27...	<200	<200	<200	<600	<600	<200	<600	<200	<200	<200	<200

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

HAMMOND CANAL AT HAMMOND CONSERVANCY DISTRICT NEAR BLOOMFIELD, NM (364125107515110)

DATE	TIME	ACE-NAPHTH-YLENE TOTAL (UG/L) (34200)	ACE-NAPHTH-ENE TOTAL (UG/L) (34205)	ANTHRA-CENE TOTAL (UG/L) (34220)	BENZO B FLUOR-AN-THENE TOTAL (UG/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (UG/L) (34242)	BENZO-A-PYRENE TOTAL (UG/L) (34247)	BIS 2-CHLORO-ETHYL ETHER TOTAL (UG/L) (34273)	BIS (2-CHLORO-ETHOXY) METHANE TOTAL (UG/L) (34278)	BIS (2-CHLORO-ISO-PROPYL) ETHER TOTAL (UG/L) (34283)	N-BUTYL BENZYL PHTHAL-ATE TOTAL (UG/L) (34292)	CHRY-SENE TOTAL (UG/L) (34320)	
SEP 1994 27...	1630	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0	<10.0	
DATE		DIETHYL PHTHAL-ATE TOTAL (UG/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (UG/L) (34341)	FLUOR-ANTHENE TOTAL (UG/L) (34376)	FLUOR-ENE TOTAL (UG/L) (34381)	HEXA-CHLORO-CYCLO-PENT-ADIENE TOTAL (UG/L) (34386)	HEXA-CHLORO-ETHANE TOTAL (UG/L) (34396)	INDENO (1,2,3-CD) PYRENE TOTAL (UG/L) (34403)	ISO-PHORONE TOTAL (UG/L) (34408)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (UG/L) (34428)	N-NITRO-SODI-PHENYL-LAMINE TOTAL (UG/L) (34433)	N-NITRO-SODI-METHYL-LAMINE TOTAL (UG/L) (34438)	NITRO-BENZENE TOTAL (UG/L) (34447)
SEP 1994 27...	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0
DATE		PARA-CHLORO-META-CRESOL TOTAL (UG/L) (34452)	PHENAN-THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	BENZOGH I PERYL ENE1,12-BENZOP ERYLENE TOTAL (UG/L) (34521)	BENZO A ANTHRAC ENE1,2-BENZANT HRACENE TOTAL (UG/L) (34526)	BENZENE O-CHLORO-WATER UNFLTRD REC TOTAL (UG/L) (34536)	BENZENE 1,2,4-TRI-CHLORO- WAT UNF REC TOTAL (UG/L) (34551)	1,2,5,6-DIBENZ -ANTHRA-CENE TOTAL (UG/L) (34556)	BENZENE 1,3-DI-CHLORO- WATER UNFLTRD REC TOTAL (UG/L) (34566)	BENZENE 1,4-DI-CHLORO- WATER UNFLTRD REC TOTAL (UG/L) (34571)	2-CHLORO-NAPH- THALENE TOTAL (UG/L) (34581)	2-CHLORO-PHENOL TOTAL (UG/L) (34586)
SEP 1994 27...	<30.0	<5.0	<5.0	<10.0	<10.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0
DATE		2-NITRO-PHENOL TOTAL (UG/L) (34591)	DI-N-OCTYL PHTHAL-ATE TOTAL (UG/L) (34596)	2,4-DI-CHLORO-PHENOL TOTAL (UG/L) (34601)	2,4-DI-METHYL-PHENOL TOTAL (UG/L) (34606)	2,4-DI-NITRO-TOLUENE TOTAL (UG/L) (34611)	2,4-DI-NITRO-PHENOL TOTAL (UG/L) (34616)	2,4,6-TRI-CHLORO-PHENOL TOTAL (UG/L) (34621)	2,6-DI-NITRO-TOLUENE TOTAL (UG/L) (34626)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (UG/L) (34631)	4-BROMO-PHENYL-ETHER TOTAL (UG/L) (34636)	4-CHLORO-PHENYL-ETHER TOTAL (UG/L) (34641)	
SEP 1994 27...	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	
DATE		4-NITRO-PHENOL TOTAL (UG/L) (34646)	4,6-DINITRO-ORTHOCRESOL TOTAL (UG/L) (34657)	PHENOL (C6H-5OH) TOTAL (UG/L) (34694)	NAPHTH-ALENE TOTAL (UG/L) (34696)	PENTA-CHLORO-PHENOL TOTAL (UG/L) (39032)	BIS(2-ETHYL-HEXYL) PHTHAL-ATE TOTAL (UG/L) (39100)	DI-N-BUTYL PHTHAL-ATE TOTAL (UG/L) (39110)	BENZI-DINE TOTAL (UG/L) (39120)	HEXA-CHLORO-BENZENE TOTAL (UG/L) (39700)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (UG/L) (82626)	
SEP 1994 27...	<30.0	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<5.0	<40.0	<5.0	<5.0	<5.0	

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

DATE	TIME	ACE-NAPHTH-YLENE TOTAL (UG/L) (34200)	ACE-NAPHTH-ENE TOTAL (UG/L) (34205)	ANTHRA-CENE TOTAL (UG/L) (34220)	BENZO B FLUOR-AN-THENE TOTAL (UG/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (UG/L) (34242)	BENZO-A-PYRENE TOTAL (UG/L) (34247)	BIS-2-CHLORO-ETHYL ETHER TOTAL (UG/L) (34273)	BIS (2-CHLORO-ETHOXY) METHANE TOTAL (UG/L) (34278)	BIS (2-CHLORO-ISO-PROPYL) ETHER TOTAL (UG/L) (34283)	N-BUTYL BENZYL PHTHAL-ATE TOTAL (UG/L) (34292)	CHRY-SENE TOTAL (UG/L) (34320)
SEP 1994 27...	1630	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0	<10.0

DATE	DIETHYL PHTHAL-ATE TOTAL (UG/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (UG/L) (34341)	FLUOR-ANTHENE TOTAL (UG/L) (34376)	FLUOR-ENE TOTAL (UG/L) (34381)	HEXA-CHLORO-CYCLO-PENT-ADIENE TOTAL (UG/L) (34386)	HEXA-CHLORO-ETHANE TOTAL (UG/L) (34396)	INDENO (1,2,3-CD) PYRENE TOTAL (UG/L) (34403)	ISO-PHORONE TOTAL (UG/L) (34408)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (UG/L) (34428)	N-NITRO-SODI-PHENY-LAMINE TOTAL (UG/L) (34433)	N-NITRO-SODI-METHY-LAMINE TOTAL (UG/L) (34438)	NITRO-BENZENE TOTAL (UG/L) (34447)
SEP 1994 27...	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0

DATE	PARA-CHLORO-META CRESOL TOTAL (UG/L) (34452)	PHENAN-THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	BENZOGH I PERYL ENE1,12-BENZOP-ERYLENE TOTAL (UG/L) (34521)	BENZO A ANTHRAC-ENE1,2-BENZANT HRACENE TOTAL (UG/L) (34526)	BENZENE O-CHLORO-WATER UNFLTRD REC TOTAL (UG/L) (34536)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC TOTAL (UG/L) (34551)	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (UG/L) (34556)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC TOTAL (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC TOTAL (UG/L) (34571)	2-CHLORO-NAPH-THALENE TOTAL (UG/L) (34581)	2-CHLORO-PHENOL TOTAL (UG/L) (34586)
SEP 1994 27...	<30.0	<5.0	<5.0	<10.0	<10.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0

DATE	2-NITRO-PHENOL TOTAL (UG/L) (34591)	DI-N-OCTYL PHTHAL-ATE TOTAL (UG/L) (34596)	2,4-DI-CHLORO-PHENOL TOTAL (UG/L) (34601)	2,4-DI-METHYL-PHENOL TOTAL (UG/L) (34606)	2,4-DI-NITRO-TOLUENE TOTAL (UG/L) (34611)	2,4-DI-NITRO-PHENOL TOTAL (UG/L) (34616)	2,4,6-TRI-CHLORO-PHENOL TOTAL (UG/L) (34621)	2,6-DI-NITRO-TOLUENE TOTAL (UG/L) (34626)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (UG/L) (34631)	4-BROMO-PHENYL-ETHER TOTAL (UG/L) (34636)	4-CHLORO-PHENYL-ETHER TOTAL (UG/L) (34641)
SEP 1994 27...	<5.0	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0

DATE	4-NITRO-PHENOL TOTAL (UG/L) (34646)	4,6-DINITRO-ORTHO-CRESOL TOTAL (UG/L) (34657)	PHENOL (C6H-SOH) TOTAL (UG/L) (34694)	NAPHTH-ALENE TOTAL (UG/L) (34696)	PENTA-CHLORO-PHENOL TOTAL (UG/L) (39032)	BIS(2-ETHYL-HEXYL) PHTHAL-ATE TOTAL (UG/L) (39100)	DI-N-BUTYL PHTHAL-ATE TOTAL (UG/L) (39110)	BENZI-DINE TOTAL (UG/L) (39120)	HEXA-CHLORO-BENZENE TOTAL (UG/L) (39700)	HEXA-CHLORO-ADIENE TOTAL (UG/L) (39702)	1,2-DI-PHENYL-HYDRA-ZENE TOT. REC (UG/L) (82626)
SEP 1994 27...	<30.0	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<40.0	<5.0	<5.0	<5.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

SUPPLY CANAL 0.3 MI WEST OF NM HWY 44, NR BLOOMFIELD, NM (364128107594410)
(HAMMOND IRRIGATION PROJECT)

DATE	TIME	ACE-NAPHTH-YLENE TOTAL (UG/L) (34200)	ACE-NAPHTH-ENE TOTAL (UG/L) (34205)	ANTHRA-CENE TOTAL (UG/L) (34220)	BENZO B FLUOR-AN-THENE TOTAL (UG/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (UG/L) (34242)	BENZO-A-PYRENE TOTAL (UG/L) (34247)	BIS 2-CHLORO-ETHYL ETHER TOTAL (UG/L) (34273)	BIS (2-CHLORO-ETHOXY) METHANE TOTAL (UG/L) (34278)	BIS (2-CHLORO-ISO-PROPYL) ETHER TOTAL (UG/L) (34283)	N-BUTYL BENZYL PHTHAL-ATE TOTAL (UG/L) (34292)	CHRY-SENE TOTAL (UG/L) (34320)	
SEP 1994													
28...	1220	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0	<10.0	
28...	1320	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0	<10.0	
DATE		DIETHYL PHTHAL-ATE TOTAL (UG/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (UG/L) (34341)	FLUOR-ANTHENE TOTAL (UG/L) (34376)	FLUOR-ENE TOTAL (UG/L) (34381)	HEXA-CHLORO-CYCLO-PENT-ADIENE TOTAL (UG/L) (34386)	HEXA-CHLORO-ETHANE TOTAL (UG/L) (34396)	INDENO (1,2,3-CD) PYRENE TOTAL (UG/L) (34403)	ISO-PHORONE TOTAL (UG/L) (34408)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (UG/L) (34428)	N-NITRO-SODI-PHENY-LAMINE TOTAL (UG/L) (34433)	N-NITRO-SODI-METHY-LAMINE TOTAL (UG/L) (34438)	NITRO-BENZENE TOTAL (UG/L) (34447)
SEP 1994													
28...	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0
28...	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0
DATE		PARA-CHLORO-META CRESOL TOTAL (UG/L) (34452)	PHENAN-THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	BENZOGH I PERYL ENE1,12-BENZOP-ERYLENE TOTAL (UG/L) (34521)	BENZO A ANTHRAC ENE1,2-BENZANT HRACENE TOTAL (UG/L) (34526)	BENZENE O-CHLORO-WATER UNFLTRD REC TOTAL (UG/L) (34536)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC TOTAL (UG/L) (34551)	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (UG/L) (34556)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC TOTAL (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC TOTAL (UG/L) (34571)	2-CHLORO-NAPH-THALENE TOTAL (UG/L) (34581)	2-CHLORO-PHENOL TOTAL (UG/L) (34586)
SEP 1994													
28...	<30.0	<5.0	<5.0	<10.0	<10.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0
28...	<30.0	<5.0	<5.0	<10.0	<10.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0
DATE		2-NITRO-PHENOL TOTAL (UG/L) (34591)	DI-N-OCTYL PHTHAL-ATE TOTAL (UG/L) (34596)	2,4-DI-CHLORO-PHENOL TOTAL (UG/L) (34601)	2,4-DI-METHYL-PHENOL TOTAL (UG/L) (34606)	2,4-DI-NITRO-TOLUENE TOTAL (UG/L) (34611)	2,4-DI-NITRO-PHENOL TOTAL (UG/L) (34616)	2,4,6-TRI-CHLORO-PHENOL TOTAL (UG/L) (34621)	2,6-DI-NITRO-TOLUENE TOTAL (UG/L) (34626)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (UG/L) (34631)	4-BROMO-PHENYL ETHER TOTAL (UG/L) (34636)	4-CHLORO-PHENYL ETHER TOTAL (UG/L) (34641)	
SEP 1994													
28...	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	
28...	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	
DATE		4-NITRO-PHENOL TOTAL (UG/L) (34646)	4,6-DINITRO-ORTHO-CRESOL TOTAL (UG/L) (34657)	PHENOL (C6H-5OH) TOTAL (UG/L) (34694)	NAPHTH-ALENE TOTAL (UG/L) (34696)	PENTA-CHLORO-PHENOL TOTAL (UG/L) (39032)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (UG/L) (39100)	DI-N-BUTYL PHTHAL-ATE TOTAL (UG/L) (39110)	BENZI-DINE TOTAL (UG/L) (39120)	HEXA-CHLORO-BENZENE TOTAL (UG/L) (39700)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (UG/L) (82626)	
SEP 1994													
28...	<30.0	<30.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0	<40.0	<5.0	<5.0	<5.0	
28...	<30.0	<30.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0	<40.0	<5.0	<5.0	<5.0	

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

(HATTEND IRRIGATION PROJECT)

DATE	TIME	ACE-NAPHTH-YLENE BOT.MAT (UG/KG) (34203)	ACE-NAPHTH-ENE BOT.MAT (UG/KG) (34208)	ANTHRA-CENE BOT.MAT (UG/KG) (34223)	BENZO B FLUOR-AN-THENE BOT.MAT (UG/KG) (34233)	BENZO K FLUOR-AN-THENE BOT.MAT (UG/KG) (34245)	BENZO-A-PYRENE BOT.MAT (UG/KG) (34250)	BIS (2-CHLORO-ETHYL) ETHER BOT.MAT (UG/KG) (34276)	BIS (2-CHLORO-ETHOXY) METHANE BOT.MAT (UG/KG) (34281)	BIS (2-CHLORO-ISO-PROPYL) ETHER BOT.MAT (UG/KG) (34286)	N-BUTYL BENZYL PHTHAL-ATE BOT.MAT (UG/KG) (34295)
SEP 1994											
28...	1220	<200	<200	<200	<400	<400	<400	<200	<200	<200	<200
28...	1320	<200	<200	<200	<400	<400	<400	<200	<200	<200	<200
DATE	CHRY-SENE BOT.MAT (UG/KG) (34323)	DIETHYL PHTHAL-ATE BOT.MAT (UG/KG) (34339)	DI-METHYL PHTHAL-ATE BOT.MAT (UG/KG) (34344)	FLUOR-ANTHENE BOT.MAT (UG/KG) (34379)	FLUOR-ENE BOT.MAT (UG/KG) (34384)	HEXA-CHLORO-CYCLO-PENT-ADIENE BOT.MAT (UG/KG) (34389)	HEXA-CHLORO-ETHANE BOT.MAT (UG/KG) (34399)	INDENO (1,2,3-CD) PYRENE BOT.MAT (UG/KG) (34406)	ISO-PHORONE BOT.MAT (UG/KG) (34411)	N-NITRO-SODI-N-PROPYL-AMINE BOT.MAT (UG/KG) (34431)	N-NITRO-SODI-PHENYL-LAMINE BOT.MAT (UG/KG) (34436)
SEP 1994											
28...	<400	<200	<200	<200	<200	<200	<200	<400	<200	<200	<200
28...	<400	<200	<200	<200	<200	<200	<200	<400	<200	<200	<200
DATE	N-NITRO-SODI-METHYL-LAMINE BOT.MAT (UG/KG) (34441)	NAPHTH-ALENE BOT.MAT (UG/KG) (34445)	NITRO-BENZENE BOT.MAT (UG/KG) (34450)	PARA-CHLORO-META-CRESOL BOT.MAT (UG/KG) (34455)	PHENAN-THRENE BOT.MAT (UG/KG) (34464)	PYRENE BOT.MAT (UG/KG) (34472)	BENZOGH I PERYL ENE1,12-BENZOP-ERYLENE BOT.MAT (UG/KG) (34524)	BENZO A ANTHRAC-ENE1,2-BENZANT HRACENE BOT.MAT (UG/KG) (34529)	1,2-DI-CHLORO-BENZENE BOT.MAT (UG/KG) (34539)	1,2,4-TRI-CHLORO-BENZENE BOT.MAT (UG/KG) (34554)	1,2,5,6-DIBENZ-ANTHRA-CENE BOT.MAT (UG/KG) (34559)
SEP 1994											
28...	<200	<200	<200	<600	<200	<200	<400	<400	<200	<200	<400
28...	<200	<200	<200	<600	<200	<200	<400	<400	<200	<200	<400
DATE	1,3-DI-CHLORO-BENZENE BOT.MAT (UG/KG) (34569)	1,4-DI-CHLORO-BENZENE BOT.MAT (UG/KG) (34574)	2-CHLORO-NAPH-THALENE BOT.MAT (UG/KG) (34584)	2-CHLORO-PHENOL BOT.MAT (UG/KG) (34589)	2-NITRO-PHENOL BOT.MAT (UG/KG) (34594)	DI-N-OCTYL PHTHAL-ATE BOT.MAT (UG/KG) (34599)	2,4-DI-CHLORO-PHENOL BOT.MAT (UG/KG) (34604)	2,4-DP, IN BOT.MAT (UG/KG) (34609)	2,4-DI-NITRO-TOLUENE BOT.MAT (UG/KG) (34614)	2,4-DI-NITRO-PHENOL BOT.MAT (UG/KG) (34619)	2,4,6-TRI-CHLORO-PHENOL BOT.MAT (UG/KG) (34624)
SEP 1994											
28...	<200	<200	<200	<200	<200	<400	<200	<200	<200	<600	<600
28...	<200	<200	<200	<200	<200	<400	<200	<200	<200	<600	<600
DATE	2,6-DI-NITRO-TOLUENE BOT.MAT (UG/KG) (34629)	4-BROMO-PHENYL PHENYL ETHER BOT.MAT (UG/KG) (34639)	4-CHLORO-PHENYL PHENYL ETHER BOT.MAT (UG/KG) (34644)	4-NITRO-PHENOL BOT.MAT (UG/KG) (34649)	4,6-DINITRO-ORTHO-CRESOL BOT.MAT (UG/KG) (34660)	PHENOL (C6H-5OH) BOT.MAT (UG/KG) (34695)	PENTA-CHLORO-PHENOL BOT.MAT (UG/KG) (39061)	BIS(2-ETHYL-HEXYL) PHTHAL-ATE BOT.MAT (UG/KG) (39102)	DI-N-BUTYL PHTHAL-ATE BOT.MAT (UG/KG) (39112)	HEXA-CHLORO-BENZENE TOT. IN BOTTOM MATL. BOT.MAT (UG/KG) (39701)	HEXA-CHLORO-BUT-ADIENCE BOT.MAT (UG/KG) (39705)
SEP 1994											
28...	<200	<200	<200	<600	<600	<200	<600	<200	<200	<200	<200
28...	<200	<200	<200	<600	<600	<200	<600	<200	<200	<200	<200

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

SUPPLY CANAL 100 FT BL BLOOMFIELD REFINERY NR BLOOMFIELD, NM (364148107584310)
(HAMMOND IRRIGATION PROJECT)

DATE	TIME	ACE- NAPHTH- YLENE TOTAL (UG/L) (34200)	ACE- NAPHTH- ENE TOTAL (UG/L) (34205)	ANTHRA- CENE TOTAL (UG/L) (34220)	BENZO B FLUOR- AN- THENE TOTAL (UG/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (UG/L) (34242)	BENZO- A- PYRENE TOTAL (UG/L) (34247)	BIS 2- CHLORO- ETHYL ETHER TOTAL (UG/L) (34273)	BIS (2- CHLORO- ETHOXY) METHANE TOTAL (UG/L) (34278)	BIS (2- CHLORO- ISO- PROPYL) ETHER TOTAL (UG/L) (34283)	N-BUTYL BENZYL ATE TOTAL (UG/L) (34292)	CHRY- SENE TOTAL (UG/L) (34320)
SEP 1994 28...	1010	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0	<10.0

DATE	DIETHYL PHTHAL- ATE TOTAL (UG/L) (34336)	DI- METHYL PHTHAL- ATE TOTAL (UG/L) (34341)	FLUOR- ANTHENE TOTAL (UG/L) (34376)	FLUOR- ENE TOTAL (UG/L) (34381)	HEXA- CHLORO- CYCLO- PENT- ADIENE TOTAL (UG/L) (34386)	HEXA- CHLORO- ETHANE TOTAL (UG/L) (34396)	INDENO (1,2,3- CD) PYRENE TOTAL (UG/L) (34403)	ISO- PHORONE TOTAL (UG/L) (34408)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (UG/L) (34428)	N-NITRO -SODI- PHENY- LAMINE TOTAL (UG/L) (34433)	N-NITRO -SODI- METHY- LAMINE TOTAL (UG/L) (34438)	NITRO- BENZENE TOTAL (UG/L) (34447)
SEP 1994 28...	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0

DATE	PARA- CHLORO- META CRESOL TOTAL (UG/L) (34452)	PHENAN- THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	BENZOGH I PERYL ENE1,12 -BENZOP ERYLENE TOTAL (UG/L) (34521)	BENZO A ANTHRAC ENE1,2- BENZANT HRACENE TOTAL (UG/L) (34526)	BENZENE O- CHLORO- WATER UNFLTRD REC TOTAL (UG/L) (34536)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC TOTAL (UG/L) (34551)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (UG/L) (34556)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC TOTAL (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC TOTAL (UG/L) (34571)	2- CHLORO- NAPH- THALENE TOTAL (UG/L) (34581)	2- CHLORO- PHENOL TOTAL (UG/L) (34586)
SEP 1994 28...	<30.0	<5.0	<5.0	<10.0	<10.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0

DATE	2- NITRO- PHENOL TOTAL (UG/L) (34591)	DI-N- OCTYL PHTHAL- ATE TOTAL (UG/L) (34596)	2,4-DI- CHLORO- PHENOL TOTAL (UG/L) (34601)	2,4-DI- METHYL- PHENOL TOTAL (UG/L) (34606)	2,4-DI- NITRO- PHENOL TOTAL (UG/L) (34611)	2,4- DI- NITRO- PHENOL TOTAL (UG/L) (34616)	2,4,6- TRI- CHLORO- PHENOL TOTAL (UG/L) (34621)	2,6-DI- NITRO- TOLUENE TOTAL (UG/L) (34626)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (UG/L) (34631)	4- BROMO- PHENYL ETHER TOTAL (UG/L) (34636)	4- CHLORO- PHENYL ETHER TOTAL (UG/L) (34641)
SEP 1994 28...	<5.0	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0

DATE	4- NITRO- PHENOL TOTAL (UG/L) (34646)	4,6- DINITRO -ORTHO- CRESOL TOTAL (UG/L) (34657)	PHENOL (C6H- 5OH) TOTAL (UG/L) (34694)	NAPHTH- ALENE TOTAL (UG/L) (34696)	PENTA- CHLORO- PHENOL TOTAL (UG/L) (39032)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (UG/L) (39100)	DI-N- BUTYL PHTHAL- ATE TOTAL (UG/L) (39110)	BENZI- DINE TOTAL (UG/L) (39120)	HEXA- CHLORO- BENZENE TOTAL (UG/L) (39700)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L) (39702)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT.REC (UG/L) (82626)
SEP 1994 28...	<30.0	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<40.0	<5.0	<5.0	<5.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

SUPPLY CANAL 100 FT BY BLOOMFIELD REFINERY NE BLOOMFIELD, NM (344148107504210)

DATE	TIME	ACE-NAPHTH-YLENE BOT.MAT (UG/KG) (34203)	ACE-NAPHTH-ENE BOT.MAT (UG/KG) (34208)	ANTHRA-CENE BOT.MAT (UG/KG) (34223)	BENZO B FLUOR-AN-THENE BOT.MAT (UG/KG) (34233)	BENZO K FLUOR-AN-THENE BOT.MAT (UG/KG) (34245)	BENZO-A-PYRENE BOT.MAT (UG/KG) (34250)	BIS (2-CHLORO-ETHYL) ETHER BOT.MAT (UG/KG) (34276)	BIS (2-CHLORO-ETHOXY) METHANE BOT.MAT (UG/KG) (34281)	BIS (2-CHLORO-ISO-PROPYL) ETHER BOT.MAT (UG/KG) (34286)	N-BUTYL BENZYL PHTHAL-ATE BOT.MAT (UG/KG) (34295)
SEP 1994 28...	1010	<200	<200	<200	<400	<400	<400	<200	<200	<200	<200

DATE	CHRY-SENE BOT.MAT (UG/KG) (34323)	DIETHYL PHTHAL-ATE BOT.MAT (UG/KG) (34339)	DI-METHYL PHTHAL-ATE BOT.MAT (UG/KG) (34344)	FLUOR-ANTHENE BOT.MAT (UG/KG) (34379)	FLUOR-ENE BOT.MAT (UG/KG) (34384)	HEXA-CHLORO-CYCLO-PENT-ADIENE BOT.MAT (UG/KG) (34389)	HEXA-CHLORO-ETHANE BOT.MAT (UG/KG) (34399)	INDENO (1,2,3-CD) PYRENE BOT.MAT (UG/KG) (34406)	ISO-PHORONE BOT.MAT (UG/KG) (34411)	N-NITRO-SODI-N-PROPYL-AMINE BOT.MAT (UG/KG) (34431)	N-NITRO-SODI-N-PHENY-LAMINE BOT.MAT (UG/KG) (34436)
SEP 1994 28...	<400	<200	<200	<200	<200	<200	<200	<400	<200	<200	<200

DATE	N-NITRO-SODI-METHY-LAMINE BOT.MAT (UG/KG) (34441)	NAPHTH-ALENE BOT.MAT (UG/KG) (34445)	NITRO-BENZENE BOT.MAT (UG/KG) (34450)	PARA-CHLORO-META CRESOL BOT.MAT (UG/KG) (34455)	PHENAN-THRENE BOT.MAT (UG/KG) (34464)	PYRENE BOT.MAT (UG/KG) (34472)	BENZOGH I PERYL ENE1,12-BENZOP-ERYLENE BOT.MAT (UG/KG) (34524)	BENZO A ANTHRAC-ENE1,2-BENZANT-HRACENE BOT.MAT (UG/KG) (34529)	1,2-DI-CHLORO-BENZENE BOT.MAT (UG/KG) (34539)	1,2,4-TRI-CHLORO-BENZENE BOT.MAT (UG/KG) (34554)	1,2,5,6-DIBENZ-ANTHRA-CENE BOT.MAT (UG/KG) (34559)
SEP 1994 28...	<200	<200	<200	<600	<200	<200	<400	<400	<200	<200	<400

DATE	1,3-DI-CHLORO-BENZENE BOT.MAT (UG/KG) (34569)	1,4-DI-CHLORO-BENZENE BOT.MAT (UG/KG) (34574)	2-CHLORO-NAPH-THALENE BOT.MAT (UG/KG) (34584)	2-CHLORO-PHENOL BOT.MAT (UG/KG) (34589)	2-NITRO-PHENOL BOT.MAT (UG/KG) (34594)	DI-N-OCTYL PHTHAL-ATE BOT.MAT (UG/KG) (34599)	2,4-DI-CHLORO-PHENOL BOT.MAT (UG/KG) (34604)	2,4-DP, IN BOTTOM MAT. BOT.MAT (UG/KG) (34609)	2,4-DI-NITRO-TOLUENE BOT.MAT (UG/KG) (34614)	2,4-DI-NITRO-PHENOL BOT.MAT (UG/KG) (34619)	2,4,6-TRI-CHLORO-PHENOL BOT.MAT (UG/KG) (34624)
SEP 1994 28...	<200	<200	<200	<200	<200	<400	<200	<200	<200	<600	<600

DATE	2,6-DI-NITRO-TOLUENE BOT.MAT (UG/KG) (34629)	4-BROMO-PHENYL ETHER BOT.MAT (UG/KG) (34639)	4-CHLORO-PHENYL ETHER BOT.MAT (UG/KG) (34644)	4-NITRO-PHENOL BOT.MAT (UG/KG) (34649)	4,6-DINITRO-CRESOL BOT.MAT (UG/KG) (34660)	PHENOL (508 SOH) BOT.MAT (UG/KG) (34695)	PENTA-CHLORO-PHENOL BOT.MAT (UG/KG) (39061)	BIS(2-ETHYL-HEXYL) ETHER BOT.MAT (UG/KG) (39102)	DI-N-BUTYL ETHER BOT.MAT (UG/KG) (39112)	HEXA-CHLORO-BENZENE 101, IN BOTTOM MATL. BOT.MAT (UG/KG) (39701)	HEXA-CHLORO-BUT-ADIENCE BOT.MAT (UG/KG) (39705)
SEP 1994 28...	<200	<200	<200	<600	<600	<200	<600	<200	<200	<200	<200

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

SUPPLY CANAL 0.3 MI AB BLOOMFIELD REFINERY, NR BLOOMFIELD, NM (364155107574210)
(HAMMOND IRRIGATION PROJECT)

DATE	TIME	ACE- NAPHTH- YLENE TOTAL (UG/L) (34200)	ACE- NAPHTH- ENE TOTAL (UG/L) (34205)	ANTHRA- CENE TOTAL (UG/L) (34220)	BENZO B FLUOR- AN- THENE TOTAL (UG/L) (34230)	BENZO K FLUOR- AN- THENE TOTAL (UG/L) (34242)	BENZO- A- PYRENE TOTAL (UG/L) (34247)	BIS 2- CHLORO- ETHYL ETHER TOTAL (UG/L) (34273)	BIS (2- CHLORO- ETHOXY) METHANE TOTAL (UG/L) (34278)	BIS (2- CHLORO- ISO- PROPYL) ETHER TOTAL (UG/L) (34283)	N-BUTYL BENZYL PHTHAL- ATE TOTAL (UG/L) (34292)	CHRY- SENE TOTAL (UG/L) (34320)	
SEP 1994 28...	0800	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0	<10.0	
DATE		DIETHYL PHTHAL- ATE TOTAL (UG/L) (34336)	DI- METHYL PHTHAL- ATE TOTAL (UG/L) (34341)	FLUOR- ANTHENE TOTAL (UG/L) (34376)	FLUOR- ENE TOTAL (UG/L) (34381)	HEXA- CHLORO- CYCLO- PENT- ADIENE TOTAL (UG/L) (34386)	HEXA- CHLORO- ETHANE TOTAL (UG/L) (34396)	INDENO (1,2,3- CD) PYRENE TOTAL (UG/L) (34403)	ISO- PHORONE TOTAL (UG/L) (34408)	N- NITRO- SODI-N- PROPYL- AMINE TOTAL (UG/L) (34428)	N-NITRO -SODI- PHENY- LAMINE TOTAL (UG/L) (34433)	N-NITRO -SODI- METHY- LAMINE TOTAL (UG/L) (34438)	NITRO- BENZENE TOTAL (UG/L) (34447)
SEP 1994 28...	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0
DATE		PARA- CHLORO- META CRESOL TOTAL (UG/L) (34452)	PHENAN- THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	BENZOGH I PERYL ENE1,12 -BENZOP ERYLENE TOTAL (UG/L) (34521)	BENZO A ANTHRAC ENE1,2- BENZANT HRACENE TOTAL (UG/L) (34526)	BENZENE O- CHLORO- WATER UNFLTRD REC TOTAL (UG/L) (34536)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC TOTAL (UG/L) (34551)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (UG/L) (34556)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC TOTAL (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC TOTAL (UG/L) (34571)	2- CHLORO- NAPH- THALENE TOTAL (UG/L) (34581)	2- CHLORO- PHENOL TOTAL (UG/L) (34586)
SEP 1994 28...	<30.0	<5.0	<5.0	<10.0	<10.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0
DATE		2- NITRO- PHENOL TOTAL (UG/L) (34591)	DI-N- OCTYL PHTHAL- ATE TOTAL (UG/L) (34596)	2,4-DI- CHLORO- PHENOL TOTAL (UG/L) (34601)	2,4-DI- METHYL- PHENOL TOTAL (UG/L) (34606)	2,4-DI- NITRO- TOLUENE TOTAL (UG/L) (34611)	2,4- DI- NITRO- PHENOL TOTAL (UG/L) (34616)	2,4,6- TRI- CHLORO- PHENOL TOTAL (UG/L) (34621)	2,6-DI- NITRO- TOLUENE TOTAL (UG/L) (34626)	3,3'- DI- CHLORO- BENZI- DINE TOTAL (UG/L) (34631)	4- BROMO- PHENYL ETHER TOTAL (UG/L) (34636)	4- CHLORO- PHENYL ETHER TOTAL (UG/L) (34641)	
SEP 1994 28...	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	
DATE		4- NITRO- PHENOL TOTAL (UG/L) (34646)	4,6- DINITRO -ORTHO- CRESOL TOTAL (UG/L) (34657)	PHENOL (C6H- 5OH) TOTAL (UG/L) (34694)	NAPHTH- ALENE TOTAL (UG/L) (34696)	PENTA- CHLORO- PHENOL TOTAL (UG/L) (39032)	BIS(2- ETHYL HEXYL) PHTHAL- ATE TOTAL (UG/L) (39100)	DI-N- BUTYL PHTHAL- ATE TOTAL (UG/L) (39110)	BENZI- DINE TOTAL (UG/L) (39120)	HEXA- CHLORO- BENZENE TOTAL (UG/L) (39700)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L) (39702)	1,2-DI- PHENYL- HYDRA- ZINE WATER TOT REC (UG/L) (82626)	
SEP 1994 28...	<30.0	<30.0	<5.0	<5.0	<30.0	<5.0	<5.0	<5.0	<40.0	<5.0	<5.0	<5.0	

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SAN JUAN RIVER BASIN -- Continued

SUPPLY CANAL 0.3 MI AB BLOOMFIELD REFINERY, NR BLOOMFIELD, NM (364155107574210)
(HAMMOND IRRIGATION PROJECT)

DATE	TIME	ACE-NAPHTH-YLENE (UG/KG) (34203)	ACE-NAPHTH-ENE (UG/KG) (34208)	ANTHRA-CENE (UG/KG) (34223)	BENZO B FLUOR-AN-THENE (UG/KG) (34233)	BENZO K FLUOR-AN-THENE (UG/KG) (34245)	BENZO-A-PYRENE (UG/KG) (34250)	BIS (2-CHLORO-ETHYL) ETHER (UG/KG) (34276)	BIS (2-CHLORO-ETHOXY) METHANE (UG/KG) (34281)	BIS (2-CHLORO-ISO-PROPYL) ETHER (UG/KG) (34286)	N-BUTYL BENZYL PHTHAL-ATE (UG/KG) (34295)
SEP 1994 28...	0800	<200	<200	<200	<400	<400	<400	<200	<200	<200	<200
DATE	CHRY-SENE BOT. MAT (UG/KG) (34323)	DIETHYL PHTHAL-ATE BOT. MAT (UG/KG) (34339)	DI-METHYL PHTHAL-ATE BOT. MAT (UG/KG) (34344)	FLUOR-ANTHENE BOT. MAT (UG/KG) (34379)	FLUOR-ENE BOT. MAT (UG/KG) (34384)	HEXA-CHLORO-CYCLO-PENT-ADIENE BOT. MAT (UG/KG) (34389)	HEXA-CHLORO-ETHANE BOT. MAT (UG/KG) (34399)	INDENO (1,2,3-CD) PYRENE BOT. MAT (UG/KG) (34406)	ISO-PHORONE BOT. MAT (UG/KG) (34411)	N-NITRO-SODI-N-PROPYL-AMINE BOT. MAT (UG/KG) (34431)	N-NITRO-SODI-N-PHENYL-LAMINE BOT. MAT (UG/KG) (34436)
SEP 1994 28...	<400	<200	<200	<200	<200	<200	<200	<400	<200	<200	<200
DATE	N-NITRO-SODI-METHYL-LAMINE BOT. MAT (UG/KG) (34441)	NAPHTH-ALENE BOT. MAT (UG/KG) (34445)	NITRO-BENZENE BOT. MAT (UG/KG) (34450)	PARA-CHLORO-META-CRESOL BOT. MAT (UG/KG) (34455)	PHENAN-THRENE BOT. MAT (UG/KG) (34464)	PYRENE BOT. MAT (UG/KG) (34472)	BENZOGH I PERYL ENE1,12-BENZOP-ERYLENE BOT. MAT (UG/KG) (34524)	BENZO A ANTHRAC-ENE1,2-BENZANT HRACENE BOT. MAT (UG/KG) (34529)	1,2-DI-CHLORO-BENZENE BOT. MAT (UG/KG) (34539)	1,2,4-TRI-CHLORO-BENZENE BOT. MAT (UG/KG) (34554)	1,2,5,6-DIBENZ-ANTHRA-CENE BOT. MAT (UG/KG) (34559)
SEP 1994 28...	<200	<200	<200	<600	<200	<200	<400	<400	<200	<200	<400
DATE	1,3-DI-CHLORO-BENZENE BOT. MAT (UG/KG) (34569)	1,4-DI-CHLORO-BENZENE BOT. MAT (UG/KG) (34574)	2-CHLORO-NAPH-THALENE BOT. MAT (UG/KG) (34584)	2-CHLORO-PHENOL BOT. MAT (UG/KG) (34589)	2-NITRO-PHENOL BOT. MAT (UG/KG) (34594)	DI-N-OCTYL PHTHAL-ATE BOT. MAT (UG/KG) (34599)	2,4-DI-CHLORO-PHENOL BOT. MAT (UG/KG) (34604)	2,4-DP, IN BOTTOM MAT. BOT. MAT (UG/KG) (34609)	2,4-DI-NITRO-TOLUENE BOT. MAT (UG/KG) (34614)	2,4-DI-NITRO-PHENOL BOT. MAT (UG/KG) (34619)	2,4,6-TRI-CHLORO-PHENOL BOT. MAT (UG/KG) (34624)
SEP 1994 28...	<200	<200	<200	<200	<200	<400	<200	<200	<200	<600	<600
DATE	2,6-DI-NITRO-TOLUENE BOT. MAT (UG/KG) (34629)	4-BROMO-PHENYL PHENYL ETHER BOT. MAT (UG/KG) (34639)	4-CHLORO-PHENYL PHENYL ETHER BOT. MAT (UG/KG) (34644)	4-NITRO-PHENOL BOT. MAT (UG/KG) (34649)	4,6-DINITRO-ORTHO-CRESOL BOT. MAT (UG/KG) (34660)	PHENOL (C6H-5OH) BOT. MAT (UG/KG) (34695)	PENTA-CHLORO-PHENOL BOT. MAT (UG/KG) (39061)	BIS(2-ETHYL-HEXYL) PHTHAL-ATE BOT. MAT (UG/KG) (39102)	DI-N-BUTYL PHTHAL-ATE BOT. MAT (UG/KG) (39112)	HEXA-CHLORO-BENZENE TOT. IN BOTTOM MAT. (UG/KG) (39701)	HEXA-CHLORO-BUT-ADIENCE BOT. MAT (UG/KG) (39705)
SEP 1994 28...	<200	<200	<200	<600	<600	<200	<600	<200	<200	<200	<200

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

TRITIUM IN ATMOSPHERIC PRECIPITATION

1206 FIELD DRIVE NE , ALBUQUERQUE, NM (350535106324000)

DATE	TRITIUM IN WATER MOLE- CULES (TU) (07012)	TRITIUM WATER MOLE- CULES COUNT ERROR (TU) (07013)
APR 01-		
JUN 30	9.6	0.6

TRITIUM IN ATMOSPHERIC PRECIPITATION

DATA NOT PREVIOUSLY PUBLISHED

1206 FIELD DRIVE NE , ALBUQUERQUE , NM (350535106324000)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TRITIUM IN WATER MOLE- CULES (TU) (07012)	TRITIUM WATER MOLE- CULES COUNT ERROR (TU) (07013)
OCT 01-		
DEC 31	10.3	1.0
JAN 01-		
MAR 31	26.9	1.5
APR 01-		
JUN 30	18.9	1.0
JUL 01-		
SEP 30	14.7	1.1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

DATE	TRITIUM IN WATER MOLE- CULES (TU) (07012)	TRITIUM WATER MOLE- CULES COUNT ERROR (TU) (07013)
OCT 01-		
DEC 31	21.6	0.9
JAN 01-		
MAR 31	20.5	1.1
APR 01-		
JUN 30	27.5	0.7
JUL 01-		
SEP 30	16.7	1.1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TRITIUM IN WATER MOLE- CULES (TU) (07012)	TRITIUM WATER MOLE- CULES COUNT ERROR (TU) (07013)
OCT 01-		
DEC 31	7.6	0.6
JAN 01-		
MAR 31	12.9	1.0
APR 01-		
JUN 30	20.4	1.0
MAY 17...	30.0	4.0
JUL 01-		
SEP 30	7.8	0.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

TRITIUM IN ATMOSPHERIC PRECIPITATION

DATA NOT NECESSARILY DUBLISHED

YEAR DATA BEING FOR, 1987, 1988, 1989, 1990, 1991

WATER-QUALITY DATA, WATER YEAR OCTOBER 1987 TO SEPTEMBER 1988

DATE	TRITIUM IN WATER MOLE- CULES (TU) (07012)	TRITIUM WATER MOLE- CULES COUNT ERROR (TU) (07013)
OCT 01-		
DEC 31	7.8	0.4
JAN 01-		
MAR 31	29.2	1.2
APR 01-		
JUN 30	19.3	1.6
JUL 01-		
SEP 30	14.6	1.1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989

DATE	TRITIUM IN WATER MOLE- CULES (TU) (07012)	TRITIUM WATER MOLE- CULES COUNT ERROR (TU) (07013)
OCT 01-		
DEC 31	15.6	0.9
JAN 01-		
MAR 31	9.7	0.6
APR 01-		
JUN 30	22.0	1.2
JUL 01-		
SEP 30	12.8	1.1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990

DATE	TRITIUM IN WATER MOLE- CULES (TU) (07012)	TRITIUM WATER MOLE- CULES COUNT ERROR (TU) (07013)
OCT 01-		
DEC 31	5.4	2.0
JAN 01-		
MAR 31	19.5	1.7
APR 01-		
JUN 30	9.4	1.1
JUL 01-		
SEP 30	12.2	1.5

WATER-QUALITY DATA, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991

DATE	TRITIUM IN WATER MOLE- CULES (TU) (07012)	TRITIUM WATER MOLE- CULES COUNT ERROR (TU) (07013)
OCT 01-		
DEC 31	5.9	0.9
JAN 01-		
MAR 31	10.3	1.0
APR 01-		
JUN 30	8.2	0.8
JUL 01-		
SEP 30	10.2	0.9

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

TRITIUM IN ATMOSPHERIC PRECIPITATION

DATA NOT PREVIOUSLY PUBLISHED

1206 FIELD DRIVE NE , ALBUQUERQUE , NM (350535106324000)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TRITIUM IN WATER MOLE- CULES (TU) (07012)	TRITIUM WATER MOLE- CULES COUNT ERROR (TU) (07013)
OCT 01-		
DEC 31	6.3	0.8
JAN 01-		
MAR 31	10.9	0.9
APR 01-		
JUN 30	12.4	0.9
JUL 01-		
SEP 30	10.0	0.8

WATER-QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TRITIUM IN WATER MOLE- CULES (TU) (07012)	TRITIUM WATER MOLE- CULES COUNT ERROR (TU) (07013)
OCT 01-		
DEC 31	10.2	0.9
JAN 01-		
MAR 31	7.5	1.1
APR 01-		
JUN 30	15.5	0.8
MAY		
01...	20.3	0.9
JUL 01-		
SEP 30	8.6	0.8

OBSERVATION WELL--
Number indicates closely spaced wells

2Ⓢ Recording

* Nonrecording

Figure 8.--Location of observation wells.

GROUND-WATER LEVELS

BERNALILLO COUNTY
Albuquerque Area

350256106390801. Local number, 10N.03E.32.314.

LOCATION.--Lat 35°02'56", long 106°39'08", Hydrologic Unit 13020203. Owner: City of Albuquerque.

AQUIFER.--Santa Fe Group.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 16 in., depth 764 ft, perforated 188-764 ft.

INSTRUMENTATION.--Digital recorder, 1-hour punch.

DATUM.--Elevation of land-surface datum is 4,941 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 3.00 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.07 ft below land-surface datum, Jan. 5, 1987;
lowest measured, 45.23 ft below land-surface datum, July 16, 1994.WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	40.21	36.42	35.08	35.40	35.70	36.30	36.65	39.65	38.73	42.62	43.62	40.96
10	39.19	36.57	35.19	35.63	35.86	36.33	38.34	39.26	41.43	44.73	44.06	40.13
15	38.66	35.66	34.45	35.33	36.68	35.44	37.88	37.73	42.09	44.86	42.23	39.69
20	37.06	35.52	35.03	35.61	36.68	36.84	40.32	38.65	41.58	44.38	41.08	40.06
25	37.33	36.19	35.05	36.13	35.88	36.73	39.92	38.75	41.76	42.59	41.61	40.57
EOB	36.83	34.88	35.30	36.47	37.30	35.86	39.29	38.79	43.60	43.65	42.05	40.41

WTR YEAR 1994 HIGHEST 34.45 DEC 15, 1993

LOWEST 45.23 JUL 16, 1994

351051106395304. Local number, 11N.03E.18.411.

LOCATION.--Lat 35°10'51", long 106°39'53", Hydrologic Unit 13020203. Owner: City of Albuquerque.

AQUIFER.--Santa Fe Group.

WELL CHARACTERISTICS.--Drilled water-table observation well, casing diameter 6 in., with 2 in. P.V.C. piezometer set at 980 ft., casing is screened from 870 to 1,050 ft.

INSTRUMENTATION.--Monthly steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,995 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of 2 in. P.V.C., 1.80 ft, above land-surface datum.

PERIOD OF RECORD.--1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.29 ft below land-surface datum, Feb. 22, 1984;
lowest measured, 41.10 ft below land-surface datum, July 29, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	38.60	NOV 29	37.77	DEC 28	37.58	JAN 27	37.28	FEB 28	37.19	MAR 30	37.96
APR 29	38.45	MAY 23	39.35	JUNE 29	40.30	JULY 29	41.10	AUG 30	41.10	SEP 26	40.79

CHAVES COUNTY
Roswell Basin

334138104343801. (formerly 334645104344501) Local number, 07S.23E.23.24431.

LOCATION.--Lat 33°46'45", long 104°34'45", Hydrologic Unit 13060005. Owner: Ted Nelson.

AQUIFER.--San Andres Limestone.

WELL CHARACTERISTICS.--Drilled artesian irrigation well, diameter 14 in., depth 436 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,810 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Lower outer edge of mouth of discharge pipe, 3.71 ft above land-surface datum.

PERIOD OF RECORD.--May 1951 to Mar. 1960, Jan. 1962 to Jan. 1966, Jan. 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 239.83 ft below land-surface datum, May 26, 1951;
lowest measured, 290.80 ft below land-surface datum, Aug. 21, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 19	259.93
Aug.	not measured

GROUND-WATER LEVELS

CHAVES COUNTY
Roswell Basin

332615104303601. Local number, 10S.24E.21.212.

LOCATION.--Lat 33°24'15", long 104°30'32", Hydrologic Unit 13060008. Owner: Peter Valley, Museum Conservancy, District.

WELL CHARACTERISTICS.--Drilled artesian observation well completed in San Andres Limestone, diameter 10 in., depth 324 ft.

INSTRUMENTATION.--Monthly steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,580.65 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of recorder shelf, 3.60 ft above land-surface datum.

REMARKS.--Recorder removed Nov. 26, 1990. Monthly steel-tape measurements.

PERIOD OF RECORD.--June 1940 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.06 ft below land-surface datum, Jan. 19, 1946;
lowest measured, 74.40 ft below land-surface datum, July 30, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	36.14	NOV 24	34.50	DEC 27	32.80	JAN 25	32.36	FEB 25	32.55	MAR 25	35.60
APR 25	36.40	MAY 25	35.20	JUNE 24	40.50	JULY 25	41.10	AUG 25	41.70	SEP 26	40.30

332255104360401. Local number, 11S.23E.03.342.

LOCATION.--Lat 33°22'55", long 104°36'04", Hydrologic Unit 13060008. Owner: J. L. Mask.

AQUIFER.--San Andres Limestone.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 15 in., depth 478 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,725 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing 0.50 ft above land-surface datum.

PERIOD OF RECORD.--Mar. 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 156.97 ft below land-surface datum, Mar. 11, 1952;
lowest measured, 198.96 ft below land-surface datum, Oct. 18, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 25	171.04
Sep. 16	176.64

331914104253701. (formerly 331930104261001) Local number, 11S.25E.29.34333.

LOCATION.--Lat 33°19'30", long 104°26'10", Hydrologic Unit 13060007. Owner: Valle Ranch.

AQUIFER.--Valley Fill

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 160 ft, cased to 160 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,535 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Edge of pump base, southeast corner, at land-surface datum.

PERIOD OF RECORD.--Aug. 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.30 ft below land-surface datum, Aug. 19, 1991;
lowest measured, 21.72 ft below land-surface datum, Aug. 26, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 28	14.29
Sep. 14	14.01

331705104262801. (formerly 332200104270001) Local number, 12S.25E.09.422.

LOCATION.--Lat 33°17'05", long 104°26'28", Hydrologic Unit 13060007. Owner: Cumberland Townsite.

AQUIFER.--Valley Fill

WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 10 in., reported depth 90 ft, cased to 90 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,564 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of 3/4 in. collar, 0.62 ft above land-surface datum.

PERIOD OF RECORD.--May 1937 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.64 ft below land-surface datum, Oct. 16, 1941;
lowest measured, 83.06 ft below land-surface datum, Aug. 21, 1973.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 26	67.23
Sep. 14	68.28

GROUND-WATER LEVELS

CHAVES COUNTY
Roswell Basin

331525104245201. (formerly 331205104245101) Local number, 12S.25E.23.344.

LOCATION.--Lat 33°15'25", long 104°24'52", Hydrologic Unit 13060007. Owner: Pecos Valley Artesian Conservancy District.

AQUIFER.--San Andres Limestone.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 9 to 7 in., depth 930 ft, 9 in. casing 0-304 ft, 7 in. casing 304-714 ft.

INSTRUMENTATION.--Digital recorder, 1-hour punch.

DATUM.--Elevation of land-surface datum is 3,539 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of recorder shelf, 2.90 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--Jan. 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.97 ft below land-surface datum, Feb. 9, 1993; lowest measured, 199.68 ft below land-surface datum, June 20, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	54.63	23.09	14.42	12.52	14.37	42.66	88.70	86.86	54.34	125.85	133.24	84.90
10	46.11	23.07	13.37	10.00	17.65	39.37	85.65	55.60	90.80	117.96	133.50	82.70
15	40.18	20.47	11.83	9.87	17.72	52.52	100.53	37.54	102.40	126.21	122.73	83.85
20	36.43	18.08	10.88	13.84	24.36	65.53	100.16	39.61	108.97	128.16	116.35	87.32
25	31.32	16.67	10.66	12.38	29.69	83.91	88.87	33.19	113.31	112.90	108.58	76.92
ECM	25.75	15.52	12.39	14.42	30.54	88.59	95.69	33.37	118.79	122.03	103.47	65.85

WTR YEAR 1994 HIGHEST 9.59 JAN 16, 1993 LOWEST 136.07 AUG 6, 1994

331524104245101. Local number, 12S.25E.23.344A.

LOCATION.--Lat 33°15'24", long 104°24'51", Hydrologic Unit 13060007. Owner: Pecos Valley Artesian Conservancy District.

AQUIFER.--Valley Fill.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 7 in., total depth 231 ft, cased to total depth, perforated 105-231 ft.

INSTRUMENTATION.--Digital recorder, 1-hour punch.

DATUM.--Elevation of land-surface datum is 3,540 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of recorder shelf 2.90 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 102.40 ft below land-surface datum, Apr. 4, 1994; lowest measured, 111.17 below land-surface datum, Sep. 22, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	104.17	104.12	103.82	103.40	103.10	102.73	102.50	102.56	102.65	102.90	103.03	103.32
10	104.14	104.05	103.85	103.47	103.01	102.70	102.42	102.66	102.73	102.91	103.09	103.25
15	104.16	104.02	103.61	103.35	103.04	102.65	102.58	102.64	102.71	102.96	103.13	103.21
20	104.29	103.96	103.73	103.39	102.95	102.62	102.51	102.61	102.78	102.96	103.16	103.13
25	104.16	103.93	103.62	103.14	102.91	102.46	102.46	102.60	102.78	102.96	103.20	103.11
ECM	104.12	103.80	103.49	103.23	102.79	102.51	102.58	102.68	102.83	103.00	103.25	103.00

WTR YEAR 1994 HIGHEST 102.40 APR 4, 1994 LOWEST 104.29 OCT 20, 1993

331213104241601. (formerly 331216104241701) Local number, 13S.25E.12.311.

LOCATION.--Lat 33°12'16", long 104°24'17", Hydrologic Unit 13060007. Owner: Hal Bogle.

AQUIFER.--Alluvium

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 13 in., depth 190 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,506 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 0.80 ft above land-surface datum.

REMARKS.--"s" indicates nearby well pumping.

PERIOD OF RECORD.--Jan. 1939 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.23 ft below land-surface datum, Feb. 3, 1942; lowest measured, 90.13 ft below land-surface datum, Aug. 27, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 25	79.25
Sep. 14	86.64 s

GROUND-WATER LEVELS

CHAVES COUNTY
Roswell Basin

331002104254701. (formerly 331002104272001) Local number 14S.25E.27.211

LOCATION.--Lat 33°10'02", long 104°25'47", Hydrologic Unit 13060007. Owner: Hal Boxle.

WELL CHARACTERISTICS.--Drilled artesian observation well completed in San Andres Limestone, diameter 10 in., depth 880 ft.

INSTRUMENTATION.--Monthly steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,523.76 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of recorder shelf 3.59 ft above land-surface datum.

REMARKS.--Recorder removed Nov. 25, 1990. Monthly steel-tape measurements.

PERIOD OF RECORD.--1940 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.06 ft above land-surface datum, Dec. 27, 1993;
lowest measured, 198.30 ft below land-surface datum, July 18, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	26.59	NOV 25	9.99	DEC 27	+ 1.06	JAN 25	0.76	FEB 25	36.55	MAR 25	101.46
APR 25	106.91	MAY 25	126.63	JUNE 24	131.87	JULY 25	127.39	AUG 25	121.89	SEP 26	75.76

330702104402401. (formerly 330700104402501) Local number, 14S.23E.08.144.

LOCATION.--Lat 33°07'00", long 104°40'25", Hydrologic Unit 13060009. Owner: M. D. Kincaid.

AQUIFER.--San Andres Limestone.

WELL CHARACTERISTICS.--Drilled artesian stock well, diameter 8 in., depth 460 ft, casing information not available.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,844 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing 1.00 ft above land-surface datum.

PERIOD OF RECORD.--Apr. 1940 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 257.55 ft below land-surface datum, Feb. 9, 1943;
lowest measured, 327.34 ft below land-surface datum, Aug. 27, 1967.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 27	291.34
Sep. 14	285.04

330646104173301. (formerly 330640104174501) Local number, 14S.26E.12.431331.

LOCATION.--Lat 33°06'40", long 104°17'45", Hydrologic Unit 13060007. Owner: C. B. Donaghy.

AQUIFER.--Valley Fill.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 13 in., depth 125 ft, cased 0-125 ft, perforated 50-115 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,396.4 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing at land-surface datum.

PERIOD OF RECORD.--Jan. 1940 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.50 ft below land-surface datum, Jan. 22, 1942;
lowest measured, 23.77 ft below land-surface datum, Aug. 25, 1967.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 24	17.63
Sep. 14	16.43

330404104221201. Local number, 14S.26E.30.44444.

LOCATION.--Lat 33°04'04", long 104°22'12", Hydrologic Unit 13060007. Owner: Bartlett.

AQUIFER.--San Andres Limestone.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 8 5/8 in., depth 1,150 ft, cased to 740 ft, open hole 740-1,150 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,484 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing 1.00 ft above land-surface datum.

PERIOD OF RECORD.--Feb. 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 58.10 ft below land-surface datum, Feb. 11, 1993;
lowest measured, 261.75 ft below land-surface datum, Aug. 18, 1988.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Feb. 11	58.10
Aug. 25	257.62

GROUND-WATER LEVELS

CHAVES COUNTY
Roswell Basin

325845104295501. Local number, 15S.24E.25.433.

LOCATION.--Lat 32°58'45", long 104°29'55", Hydrologic Unit 13060007. Owner: Pecos Valley Artesian Conservancy District.

AQUIFER.--San Andres Limestone.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 8 5/8 in., depth 910 ft, casing 0-548 ft.

INSTRUMENTATION.--Periodic steel-tape, pressure measurements, and Digital recorder with 1-hour punch.

DATUM.--Elevation of land-surface datum is 3,528.92 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, for steel-tape measurements, 1.45 ft above land surface.

REMARKS.--Water levels and pressure readings provided by N.M. State Engineer Office and Pecos Valley Artesian Conservancy District.

PERIOD OF RECORD.--Jan. 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.68 ft above land-surface datum, Jan. 20, 1993; lowest measured, 102.30 ft below land-surface datum, July 17, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	+ 13.62	+ 23.33	+ 26.10	+ 27.48	+ 25.87	4.01	37.08	14.52	+ 1.01	48.51	52.69	+ 2.31
10	---	---	---	---	---	---	---	---	---	---	---	---
15	+ 15.01	+ 24.25	+ 26.33	+ 26.10	+ 18.48	2.33	37.89	+ 0.94	45.99	33.20	47.93	12.00
20	---	---	---	---	---	---	---	---	---	---	---	---
25	+ 20.32	+ 24.02	+ 27.48	+ 25.41	+ 10.16	20.21	20.08	9.13	49.45	30.92	46.58	+ 0.92
ECM	---	---	---	---	---	---	---	---	---	---	---	---

WTR YEAR 1994 HIGHEST 27.48 DEC 25, 1993

LOWEST 52.69 AUG 5, 1994

CIBOLA COUNTY
Grants-Bluewater Area

350346107521201. (formerly 350400107510501) Local number, 10N.10W.26.331.

LOCATION.--Lat 35°04'00", long 107°51'05", Hydrologic Unit 13020207. Owner: Monico Mirabal.

AQUIFER.--Glorieta Sandstone of Permian Age.

WELL CHARACTERISTICS.--Drilled artesian irrigation well, diameter 16 in., depth 216 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,455 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of 1/2 in. hole in pump base, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--Feb. 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.18 ft below land-surface datum, Feb. 21, 1952; lowest measured, 34.69 ft below land-surface datum, Jan. 17, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 31	31.80
July 11	28.63

350923107522701. (formerly 350925107523001) Local number, 11N.10W.27.242.

LOCATION.--Lat 35°09'25", long 107°52'30", Hydrologic Unit 13020207. Owner: City of Grants.

AQUIFER.--San Andres Limestone.

WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 16 to 12 in., depth 158 ft, perforated 50 to 150 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,480 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing at land-surface datum.

PERIOD OF RECORD.--Feb. 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.23 ft below land-surface datum, Sep. 29, 1988; lowest measured, 39.08 ft below land-surface datum, Aug. 1, 1972.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Feb. 8	23.56
Aug. 11	25.54

351304107543701. (formerly 351400107524201) Local number, 12N.10W.29.434.

LOCATION.--Lat 35°14'00", long 107°52'42", Hydrologic Unit 13020207. Owner: Plains Electric.

AQUIFER.--San Andres Limestone.

WELL CHARACTERISTICS.--Drilled artesian unused well, diameter 18 in., reported depth 205 ft, cased 0-150 ft, perforated 93-130 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,552 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Lower edge of hole in north side of casing, 2.20 ft above land-surface datum.

PERIOD OF RECORD.--Oct. 1944, Feb. 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 65.46 ft below land-surface datum, Oct. 14, 1944; lowest measured, 107.61 ft below land-surface datum, Aug. 6, 1975.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar. 2	91.60
July 11	79.24

GROUND-WATER LEVELS

CIBOLA COUNTY
Grants-Bluewater Area

351651107594501. (formerly 351650107535001) Local number, 12N.11W.09.424.
LOCATION.--Lat 35°16'50", long 107°53'50". Hydrologic Unit 13020207. Owner: Plains Electric
AQUIFER.--San Andres Limestone and Yezo Formation of Permian Age.

175 ft, 12 in. casing to 325 ft.

INSTRUMENTATION.--Monthly steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,642 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing 3.05 ft above land-surface datum.

PERIOD OF RECORD.--May, 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 86.69 ft below land-surface datum, Sep. 29, 1988;
lowest measured, 274.81 ft below land-surface datum, Jan. 23, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	97.13	NOV 23	100.93	DEC 22	96.63	JAN 27	95.97	FEB 28	95.30	MAR 22	94.68
APR 28		MAY 26	99.97	JUNE 28	99.84	JULY 27	97.87	AUG 24	97.34	SEP 21	98.61

351630107572801. (formerly 351637107584501) Local number, 12N.11W.14.213.

LOCATION.--Lat 35°16'37", long 107°58'45". Hydrologic Unit 13020207. Owner: Duane Berryhill.

AQUIFER.--San Andres Limestone and Yezo Formation of Permian Age.

WELL CHARACTERISTICS.--Drilled test well, diameter 4 in., depth 130.4 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,605 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 3.70 ft above land-surface datum.

PERIOD OF RECORD.--June 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 81.74 ft below land-surface datum, Sep. 25, 1986;
lowest measured, 101.39 ft below land-surface datum, June 10, 1954.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 25	84.97
July 11	84.45

COLFAX COUNTY
Capulin Basin

364522104034501. (formerly 364500104031501) Local number, 29N.27E.16.222.

LOCATION.--Lat 36°45'00", long 104°03'15". Hydrologic Unit 11040001. Owner: John King.

AQUIFER.--Alluvium.

WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 8 in., depth 120 ft, cased to 20 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,821.5 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--Feb. 1957 to Feb. 1969, Feb. 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.65 ft below land-surface datum, Feb. 3, 1960;
lowest measured, 9.37 ft below land-surface datum, Aug. 13, 1975.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 19	7.92
July 20	8.70

GROUND-WATER LEVELS

COSTILLA COUNTY (in Colorado)
Sunshine Valley

370004105402201. (formerly 370009105410001) Local number, 01N.74W.33.322.

LOCATION.--Lat 37°00'09", long 105°41'00", Hydrologic Unit 13020101. Owner: Waller and Allen.

AQUIFER.--Santa Fe Group.

WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 15 in., depth 232 ft, casing information not available.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 7,495 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Edge of hole inside pump base, 2.00 ft above land surface-datum (since 1971).

PERIOD OF RECORD.--Feb. 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 101.82 ft below land-surface datum, Aug. 26, 1968;
lowest measured, 139.24 ft below land-surface datum, Sep. 2, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan.	not measured
Aug. 11	136.85

CURRY COUNTY
Clovis area

341825103031301. Local number, 01N.37E.15.13311.

LOCATION.--Lat 34°18'25", long 103°03'13", Hydrologic Unit 12050002. Owner: Levi Robbins.

AQUIFER.--Ogallala formation.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 16 in., depth 248 ft.

INSTRUMENTATION.--Digital recorder, 1-hour punch.

DATUM.--Elevation of land-surface datum is 4,109 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Edge of recorder shelter, 3.56 ft above land surface datum.

PERIOD OF RECORD.--Feb. 1954, Jan. 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 137.43 ft above land-surface datum, Feb. 17, 1954;
lowest measured, 233.30 ft below land-surface datum, Sep. 13, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 7	237.27
Aug.	dry

341836103052001. Local number, 01N.37E.17 113133

LOCATION.--Lat 34°18'53", long 103°05'26", Hydrologic Unit 12050002. Owner: Don Oppliger.

AQUIFER.--Ogallala.

WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 16 in., depth 373 ft, screened 293-373 ft.

INSTRUMENTATION.--Digital recorder, 1-hour punch.

DATUM.--Elevation of land-surface datum is 4,113 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top edge of recorder shelter apron, 3.93 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--Jan. 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 158.17 ft below land-surface datum, Jan. 28, 1972;
lowest measured, 242.35 ft below land-surface datum, Aug. 31, 1994.WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY HIGHEST VALLUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	231.66	229.82	229.34	229.17	228.76	228.79	231.11	231.52	231.45	237.69	240.54	238.92
10	230.20	231.26	229.43	229.18	228.69	228.78	231.18	232.25	234.23	236.83	241.01	238.54
15	230.59	229.95	229.17	229.02	230.34	229.16	231.23	231.57	233.05	238.89	239.95	239.38
20	230.31	229.65	229.30	229.04	229.15	230.59	232.26	231.69	233.21	239.13	241.56	239.12
25	230.00	229.54	229.14	228.80	229.03	232.55	232.64	232.27	235.14	239.82	240.84	239.23
DOM	229.76	229.42	229.03	228.85	228.88	232.71	231.97	231.65	236.77	240.20	240.23	238.80

WTR YR 1994 HIGHEST 228.59 FEB 11, 1994 LOWEST 242.05 AUG 30, 1994

342358103093601. Local number, 02N.36E.15.11111.

LOCATION.--Lat 34°23'58", long 103°09'36", Hydrologic Unit 12050002. Owner: Anne Humphreys.

AQUIFER.--Ogallala formation.

WELL CHARACTERISTICS.--Drilled water-table irrigation well; diameter, depth and casing information not available.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,227 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of concrete base 1.20 ft above land-surface datum.

PERIOD OF RECORD.--Jan. 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 266.89 ft below land-surface datum, Jan. 4, 1974;
lowest measured, 291.29 ft below land-surface datum, Aug. 6, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 6	285.78
Aug. 22	not measured

GROUND-WATER LEVELS

CURRY COUNTY
Clovis area

342736103203701. (formerly 342815103270001) Local number, 03N.34E.23.433133.
LOCATION.--Lat 34°27'36", long 103°20'37". Hydrologic Unit 12050001. Owner: Archie Baker.
AQUIFER.--Ogallala formation.

365-418 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,432 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 0.40 ft above land-surface datum.

PERIOD OF RECORD.--Apr. 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 340.62 ft below land-surface datum, Mar. 16, 1957;
lowest measured, 358.70 ft below land-surface datum, Aug. 9, 1989.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 5	357.94
Sep. 15	358.32

343347103345001. Local number, 04N.32E.22.111.

LOCATION.--Lat 34°33'47", long 103°34'50", Hydrologic Unit 12050001. Owner: Noel Dougherty.

AQUIFER.--Ogallala formation.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 16 in., depth 401 ft.

INSTRUMENTATION.--Continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 4,587 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Edge of recorder shelter, 3.50 ft above land surface datum.

REMARKS.--Recorder installed Aug. 1988. Lost record several days, due to recorder malfunction.

PERIOD OF RECORD.--Jan. 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 297.30 ft above land-surface datum, Apr. 15, 1994;
lowest measured, 309.92 ft below land-surface datum, Jan. 9, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5				297.88	---	297.99	297.66	---	---	297.97	298.00	297.92
10				298.10	---	---	297.85	---	---	297.94	297.99	297.89
15				---	298.13	---	297.30	298.00	298.00	297.99	297.90	297.91
20				298.17	298.30	297.96	298.00	---	298.01	297.87	297.94	297.84
25				---	298.12	298.09	297.69	---	---	297.88	297.92	297.84
EOB				---	298.03	298.20	---	---	297.94	297.88	297.98	297.79

WTR YEAR 1994 HIGHEST 297.30 APR 15, 1994 LOWEST 298.88 JAN 4, 1994

343745103201501. (formerly 343743103201501) Local number, 05N.34E.21.44344.

LOCATION.--Lat 34°37'45", long 103°20'15", Hydrologic Unit 12050005. Owner: Garrett Farms.

AQUIFER.--Ogallala formation.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 510 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,632 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of 4 ft X 4 ft concrete pump base, 0.50 ft above land-surface datum.

PERIOD OF RECORD.--Jan. 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 436.89 ft below land-surface datum, Aug. 22, 1994;
lowest measured, 448.41 ft below land-surface datum, Jan. 6, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 4	437.44
Aug. 22	436.89

343615103123801. Local number, 05N.35E.35.313.

LOCATION.--Lat 34°36'15", long 103°12'38", Hydrologic Unit 12050005. Owner: S. W. Pipkin.

AQUIFER.--Ogallala formation.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 527 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,504 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing 0.50 ft above land-surface datum.

PERIOD OF RECORD.--Jan. 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 376.40 ft below land-surface datum, Mar. 26, 1954;
lowest measured, 448.25 ft below land-surface datum, Aug. 22, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 3	447.23
Aug. 22	448.25

GROUND-WATER LEVELS

DEBACA COUNTY
Ft. Sumner Area

343657104162501. Local number, 05N.25E.34.232.

LOCATION.--Lat 34°36'57", long 104°16'25", Hydrologic Unit 13060003. Owner: Dunn Land and Cattle Co.

AQUIFER.--Santa Rosa Sandstone.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 16 in., 0-200 ft, 14 in., 194-326 ft, depth 326 ft.

INSTRUMENTATION.--Continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 4,392.2 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 0.80 ft above land-surface datum.

REMARKS.--Lost record, several days, due to recorder malfunction.

PERIOD OF RECORD.--Sep. 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 252.14 ft above land-surface datum, Sep. 28, 1971; lowest measured, 274.63 ft below land-surface datum, Jan. 4, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	269.71	269.44	---	269.61	269.83	270.24	269.95	269.75	269.94	269.82	269.49	269.54
10	269.62	269.39	---	269.75	269.75	269.95	270.03	269.73	269.84	269.59	269.56	269.67
15	269.77	269.43	---	269.90	270.07	270.05	269.67	269.72	269.94	269.62	269.52	269.65
20	269.39	269.43	---	269.83	269.86	270.08	269.76	269.88	269.72	269.66	269.66	269.66
25	269.58	269.47	---	269.77	269.75	269.99	270.14	269.87	269.86	269.69	269.58	269.59
EOM	269.53	269.57	---	269.86	269.71	269.82	269.70	269.75	269.83	269.62	269.58	269.83

WTR YEAR 1994 HIGHEST 268.55 SEP 1, 1994

LOWEST 270.26 MAR 23, 1994

DONA ANA COUNTY
Rincon and Mesilla Valleys

322203106484101. (formerly 322210106483001) Local number, 22S.01E.26.411.

LOCATION.--Lat 32°22'10", long 106°48'30", Hydrologic Unit 13030102. Owner: H. Wortheim.

AQUIFER.--Valley Fill.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 18 in., depth 107 ft, cased to 107 ft.

DATUM.--Elevation of land-surface datum is 3,920 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of east side of casing, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--Apr. 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.67 ft below land-surface datum, July 23, 1993;

lowest measured, 25.57 ft below land-surface datum, Apr. 25, 1957.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Feb. 17	11.83
July 28	9.78

321606106462901. (formerly 321620106461501) Local number, 23S.02E.31.213.

LOCATION.--Lat 32°16'20", long 106°46'15", Hydrologic Unit 13030102. Owner: New Mexico State University.

AQUIFER.--Valley Fill.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 14 in., reported depth 70 ft, cased to 70 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,880 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of 5/8 in. hole in pump base, 1.08 ft above land-surface datum.

PERIOD OF RECORD.--Feb. 1948, Apr. 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.13 ft below land-surface datum, Feb. 10, 1948;

lowest measured, 29.12 ft below land-surface datum, Jan. 7, 1958.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Feb. 17	19.41
July 28	17.73

GROUND-WATER LEVELS

EDDY COUNTY
Roswell Basin

325516104404601. (formerly 325510104410001) Local number, 16S.23E.15.322333.

LOCATION.--Lat 32°35'10", long 104°41'00", Hydrologic Unit 13060007. Owner: D. W. Kunyan.

WELL CHARACTERISTICS.--

Drilled oil test well, used for stock water, diameter 10 in., depth 1,450 ft, cased.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,807 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing 0.70 ft above land-surface datum.

PERIOD OF RECORD.--Jan. 1951 to Jan. 1965, Feb. 1970 to Aug. 1971, Jan. 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 225.16 ft below land-surface datum, Jan. 12, 1951;
lowest measured, 277.60 ft below land-surface datum, Aug. 5, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar. 11	231.70
Sep. 14	234.13

325702104352801. (formerly 325735104360701) Local number, 16S.24E.04.411341.

LOCATION.--Lat 32°57'35", long 104°36'07", Hydrologic Unit 13060007. Owner: Ellis Hunlic.

AQUIFER.--San Andres Limestone.

WELL CHARACTERISTICS.--Drilled artesian irrigation well, diameter not available, depth 610 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,624 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Southwest side of pump, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--Jan. 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.23 ft below land-surface datum, Jan. 25, 1991;
lowest measured, 100.54 ft below land-surface datum, Aug. 27, 1974.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 13	52.28
Sep. 14	57.78

325638104274801. Local number, 16S.25E.11.111131A.

LOCATION.--Lat 32°56'38", long 104°27'48", Hydrologic Unit 13060007. Owner: Pecos Valley Artesian Conservancy District.

AQUIFER.--Valley Fill.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 7 in., depth 171 ft, casing 0-171 ft, perforated 94-170 ft.

INSTRUMENTATION.--Recorder removed Nov. 27, 1990. Monthly steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,450 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of recorder shelf 3.00 ft above land-surface datum.

PERIOD OF RECORD.--1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.90 ft below land-surface datum, Feb. 18, 1966;
lowest measured, 64.72 ft below land-surface datum, July 24, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT --	-- --	NOV 30	55.09	DEC 17	54.60	JAN 19	53.90	FEB 22	54.03	MAR 23	55.02
APR 18	55.78	MAY 26	56.64	JUNE 20	57.10	JULY 28	57.92	AUG 17	58.34	SEP 14	58.79

GROUND-WATER LEVELS

EDDY COUNTY
Roswell Basin

325450104251101. (formerly 325445104253501) Local number, 16S.26E.19.21113.

LOCATION.--Lat 32°54'45", long 104°25'35", Hydrologic Unit 13060007. Owner: John Crook.

AQUIFER.--Valley Fill.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 160 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,399 ft above National Geodetic Vertical Datum of 1929.

Measuring point: 1/2 in. by 3 in. vertical slot under pump base, at land-surface datum.

PERIOD OF RECORD.--Jan. 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.60 ft below land-surface datum, Jan. 16, 1969;
lowest measured, 140.89 ft below land-surface datum, Aug. 6, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 21	104.16
Sep. 14	pumping

324838104435301. (formerly 324831104435701) Local number, 17S.23E.30.12344

LOCATION.--Lat 32°48'31", long 104°43'57", Hydrologic Unit 13060007. Owner: Village of Hope.

AQUIFER.--San Andres Limestone.

WELL CHARACTERISTICS.--Drilled artesian public-supply well, diameter 16 in., depth 600 ft, cased to 558 ft,
perforated 498-558 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,085 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of 2 in. pipe on north side of concrete base, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--Dec. 1968, Jan. 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 514.85 ft below land-surface datum, Jan. 27, 1988;
lowest measured, 553.18 ft below land-surface datum, Aug. 7, 1974.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan.	no access
Sep. 16	no access

324620104255001. (formerly 324624104244501) Local number, 18S.26E.06.442A.

LOCATION.--Lat 32°46'20", long 104°24'45", Hydrologic Unit 13060007. Owner: Pecos Valley Artesian Conservancy
District.

AQUIFER.--San Andres Limestone.

WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 9 in., depth 1,008 ft, cased to 726 ft.

INSTRUMENTATION.--Digital recorder, 1-hour punch.

DATUM.--Elevation of land-surface datum is 3,402.1 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of recorder shelf, 3.40 ft above land-surface datum.

REMARKS.--Lost several days of record, due to recorder malfunction.

PERIOD OF RECORD.--June 1961 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.57 ft below land-surface datum, Feb. 20, 1989;
lowest measured, 209.15 ft below land-surface datum, July 31-Aug. 2, 1966.WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	132.59	100.89	89.40	81.93	77.03	83.05	122.60	120.65	113.61	148.52	158.88	150.41
10	126.06	98.65	89.27	80.36	75.69	89.38	126.10	114.96	122.35	147.55	160.53	149.73
15	121.49	96.55	88.08	79.81	74.46	98.31	129.03	103.40	129.08	145.74	159.84	---
20	113.92	94.50	86.41	78.41	75.21	108.27	133.50	106.09	132.30	146.24	161.73	142.34
25	108.50	92.88	85.31	77.33	76.38	115.91	130.28	103.25	140.31	152.06	158.40	143.84
EQM	103.48	91.00	83.61	76.18	77.51	119.17	125.75	105.91	144.51	157.54	157.14	139.62

WTR YEAR 1994 HIGHEST 74.46 FEB 15, 1994 LOWEST 162.43 AUG 13, 1994

GROUND-WATER LEVELS

EDDY COUNTY
Roswell Basin

324620104255101. Local number, 18S.26E.06.442B.

LOCATION.--Lat 32°46'20", long 104°24'45", Hydrologic Unit 13060007. Owner: Pecos Valley Artesian Conservancy District.

AQUIFER.--Valley Fill.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 7 in., depth 244 ft, casing 6 in. x 10 ft.

INSTRUMENTATION.--Digital recorder, 1-hour punch.

DATUM.--Elevation of land-surface datum is 3,402 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of recorder shelf, 2.70 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--1963 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 106.83 ft below land-surface datum, Jan. 7, 1974; lowest measured, 140.59 ft below land-surface datum, Sep. 13, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	135.79	129.94	124.81	120.54	117.75	116.28	123.68	128.79	127.75	132.47	136.60	139.10
10	134.91	128.89	124.31	120.28	117.36	117.35	124.98	128.68	128.20	132.91	136.90	139.00
15	134.00	128.14	123.27	119.54	117.07	118.21	126.14	128.22	128.80	133.38	137.53	138.79
20	133.38	127.15	122.83	119.20	116.79	119.46	127.41	127.85	129.83	134.03	138.00	138.67
25	132.00	126.41	122.18	118.45	116.34	120.90	128.09	127.90	130.50	134.85	138.37	138.92
EOY	130.76	125.51	121.29	118.31	116.08	122.66	128.77	127.75	131.42	135.79	138.80	138.81

WTR YEAR 1994 HIGHEST 116.08 FEB 28, 1994 LOWEST 139.13 SEP 6, 1994

324325104233001. Local number, 18S.26E.28.122111.

LOCATION.--Lat 32°43'25", long 104°23'30", Hydrologic Unit 13060011. Owner: Town of Dayton.

AQUIFER.--Valley Fill.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 8 in., depth 250 ft, cased to 182 ft, casing slotted 92-182 ft.

INSTRUMENTATION.--Monthly steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,403 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 0.06 ft above land-surface datum.

REMARKS.--Recorder removed Nov. 27, 1990.

PERIOD OF RECORD.--Aug. 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 59.79 ft below land-surface datum, Feb. 5, 1952; lowest measured, 124.87 ft below land-surface datum, Feb. 25, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15	123.44	NOV 22	123.51	DEC 20	123.56	JAN 21	123.65	FEB 17	123.53	MAR 21	123.59
APR 18	123.51	MAY 26	123.55	JUNE 20	123.63	JULY 28	123.66	AUG 17	123.69	SEP 15	123.75

323705104225501. Local number, 19S.26E.33.41224.

LOCATION.--Lat 32°37'05", long 104°22'55", Hydrologic Unit 13060011. Owner: L. T. Lewis.

AQUIFER.--Alluvium.

WELL CHARACTERISTICS.--Drilled water-table unused irrigation well, diameter 14 in., depth 225 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,282 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of 1 in. hole, in north side of pump base, 0.95 ft. above land-surface datum.

PERIOD OF RECORD.--Jan. 1938 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.48 ft below land-surface datum, Aug. 19, 1991; lowest measured, 124.00 ft below land-surface datum, Jan. 9, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Feb. 9	37.14
Sep. 20	37.14

323542104242701. (formerly 323540104232001) Local number, 20S.26E.08.121111.

LOCATION.--Lat 32°35'40", long 104°23'20", Hydrologic Unit 13060011. Owner: Moutry.

AQUIFER.--Valley Fill

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 13 in., depth 346 ft, casing information not available.

INSTRUMENTATION.--Monthly steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,286 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of basal flange of pump head, 0.20 ft above land-surface datum.

PERIOD OF RECORD.--Jan. 1938 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.47 ft below land-surface datum, May 26, 1992; lowest measured, 90.25 ft below land-surface datum, Aug. 8, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	34.70	NOV 30	33.74	DEC 20	33.07	JAN 21	31.90	FEB 11	31.45	MAR 23	28.79
APR 18	30.30	MAY 26	30.81	JUNE 20	29.96	JULY 28	34.01	AUG 17	34.80	SEP 15	32.30

GROUND-WATER LEVELS

EDDY COUNTY
Carlsbad Area

322637104142301. (formerly 322652104141901) Local number, 21S.26E.36.221.
 LOCATION.--Lat 32°26'52", long 104°14'19", Hydrologic Unit 13060011. Owner: City of Carlsbad.
 AQUIFER.--Capitan Limestone.
 WELL CHARACTERISTICS.--Drilled water-table municipal well, diameter 20 in., depth 327 ft, casing 0-290 ft.
 INSTRUMENTATION.--Digital recorder, 1-hour punch.
 DATUM.--Elevation of land-surface datum is 3,121.84 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of recorder shelf, 4.14 ft above land-surface datum.
 REMARKS.--Records good.
 PERIOD OF RECORD.--April 1962 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.98 ft below land-surface datum, June 14, 1987;
 lowest measured, 26.07 ft below land-surface datum, Aug. 2, 1974.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
 DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.06	22.47	22.29	22.38	22.85	23.09	23.09	23.25	23.07	23.63	23.67	23.09
10	22.94	22.37	22.33	22.47	23.03	23.03	23.13	23.25	23.39	23.62	23.62	23.12
15	23.02	22.41	22.19	22.54	23.19	22.93	23.30	23.07	23.15	23.79	23.60	23.12
20	22.89	22.35	22.27	22.61	23.25	23.14	23.41	22.94	23.30	23.46	23.75	23.08
25	22.43	22.33	22.38	22.39	23.27	23.15	23.10	22.74	23.30	23.43	23.28	23.16
ECM	22.43	22.29	22.33	22.84	23.31	23.12	23.22	22.97	23.45	23.45	23.17	23.14

WTR YEAR 1994 HIGHEST 22.12 DEC 12, 1993 LOWEST 23.79 JUL 15, 1994

322636104125801. (formerly 322640104165801) Local number, 21S.27E.32.112411.
 LOCATION.--Lat 32°26'40", long 104°12'58", Hydrologic Unit 13060011. Owner: L. E. Loman.
 AQUIFER.--Capitan Limestone.
 WELL CHARACTERISTICS.--Drilled water-table domestic well, diameter 12 in., reported depth 305 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 3,112 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 0.40 ft above land-surface datum.
 PERIOD OF RECORD.--Oct. 1947 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.64 ft below land-surface datum, Jan. 17, 1950;
 lowest measured, 17.35 ft below land-surface datum, Aug. 9, 1974.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar.	no access
Sep.	no access

322712104074501. (formerly 322710104073901) Local number, 21S.28E.30.14123.
 LOCATION.--Lat 32°27'10", long 104°07'39", Hydrologic Unit 13060011. Owner: Forrest Miller.
 AQUIFER.--Capitan Limestone.
 WELL CHARACTERISTICS.--Drilled exploration well, diameter 8 5/8 - 5 1/2 in., reported depth 1,060 ft, plugged back, total depth 906 ft.
 INSTRUMENTATION.--Digital recorder, 1-hour punch.
 DATUM.--Elevation of land-surface datum is 3,181.71 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing 1.64 ft above land-surface datum.
 REMARKS.--Records good.
 PERIOD OF RECORD.--1963 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 88.13 ft below land-surface datum, June 29, 1987;
 lowest measured, 98.68 ft below land-surface datum, Aug. 3, 1974.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
 DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	94.33	93.68	93.55	93.62	93.96	94.33	94.29	94.55	94.32	94.97	95.05	94.40
10	94.26	93.71	93.59	93.72	94.14	94.33	94.42	94.52	94.72	94.98	94.98	94.38
15	94.27	93.69	93.44	93.77	94.29	94.22	94.51	94.34	94.49	95.05	94.99	94.43
20	94.27	93.63	93.52	93.83	94.35	94.37	94.73	94.27	94.60	94.83	95.06	94.42
25	93.76	93.62	93.68	93.63	94.42	94.48	94.38	94.00	94.60	94.72	94.65	94.45
ECM	93.72	93.54	93.59	93.91	94.43	94.40	94.50	94.17	94.70	94.81	94.59	94.43

WTR YEAR 1994 HIGHEST 93.37 DEC 12, 1993 LOWEST 95.08 JUL 16, 1994

GROUND-WATER LEVELS

EDDY COUNTY
Carlsbad Area

322120104151501. Local number, 22S.26E.25.333333. (formerly 22S.26E.36.111A)

LOCATION.--Lat 32°21'20", long 104°15'15", Hydrologic Unit 13060011. Owner: Carlsbad Alliance.

AQUIFER.--Alluvium.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 16 in., depth 200 ft, casing to 200 ft.

INSTRUMENTATION.--Digital recorder, 1-hour punch.

DATUM.--Elevation of land-surface datum is 3,225 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 0.40 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--July 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 131.50 ft below land-surface datum, Oct. 14, 1942;
lowest measured, 214.82 ft below land-surface datum, Sep. 15, 1978.WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	166.99	159.92	152.57	148.44	146.77	146.50	153.11	157.20	158.22	163.76	167.73	165.91
10	166.26	158.37	151.86	148.25	146.58	147.06	153.40	156.82	159.66	164.92	166.96	164.14
15	165.51	157.00	150.84	147.85	146.60	147.62	154.02	156.50	160.03	165.54	167.25	162.84
20	164.99	155.73	150.38	147.66	146.42	148.74	155.06	155.97	160.49	166.66	167.72	162.29
25	163.28	154.62	149.85	147.00	146.30	150.50	155.68	156.14	161.41	167.89	167.87	161.33
EOM	161.39	153.49	149.13	147.10	146.25	152.43	157.00	156.73	162.65	167.89	167.38	161.16

WTR YEAR 1994 HIGHEST 146.21 FEB 18, 1994 LOWEST 167.94 JUL 28, 1994

322238104101801. (formerly 322231104131001) Local number, 22S.27E.22.421333.

LOCATION.--Lat 32°22'31", long 104°10'10", Hydrologic Unit 13060011. Owner: Enea Grandi.

AQUIFER.--Alluvium.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., reported depth 150 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,100 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 1.20 ft above land-surface datum.

PERIOD OF RECORD.--Sep. 1947 to Aug. 1968, Jan. 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.43 ft below land-surface datum, Sep. 15, 1950;
lowest measured, 81.10 ft below land-surface datum, Aug. 8, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar. 10	31.07
Sep. 19	26.03

321741104204901. (formerly 321721104204801) Local number, 23S.25E.24.213.

LOCATION.--Lat 32°17'21", long 104°20'48", Hydrologic Unit 13060011. Owner: City of Carlsbad.

AQUIFER.--Capitan Limestone.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 16 in. 0-20 ft, open hole 20-900 ft.

INSTRUMENTATION.--Digital recorder, 1-hour punch.

DATUM.--Elevation of land-surface datum is 3,501.7 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 1.17 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--1963 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 369.53 ft below land-surface datum, June 27, 1986;
lowest measured, 404.06 ft below land-surface datum, July 10, 1974.WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	400.97	400.36	400.13	400.34	400.54	400.90	400.89	401.12	400.91	402.43	402.02	401.02
10	400.76	400.37	400.22	400.42	400.58	400.90	400.95	401.10	401.55	402.49	402.02	400.98
15	400.74	400.30	400.12	400.46	400.79	400.88	401.41	400.90	401.42	402.58	402.02	401.03
20	400.80	400.33	400.27	400.55	400.78	400.93	401.72	400.88	401.50	402.45	402.08	401.08
25	400.54	400.20	400.37	400.28	400.86	400.92	401.16	400.69	401.39	401.50	401.11	401.18
EOM	400.42	400.10	400.37	400.53	400.87	400.88	401.26	400.81	402.19	401.85	401.44	401.16

WTR YEAR 1994 HIGHEST 392.60 AUG 21, 1994 LOWEST 402.58 JUL 15, 1994

GROUND-WATER LEVELS

EDDY COUNTY
Carlsbad Area

321939104113301. (formerly 321930104113301) Local number, 23S.27E.09.211124.
 LOCATION.--Lat 32°19'30", long 104°11'33", Hydrologic Unit 13060011. Owner: H. C. Bindel.
 AQUIFER.--Alluvium.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 200 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 3,143 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, under pump base, 1.25 ft above land-surface datum.
 PERIOD OF RECORD.--July 1949 to Nov. 1955, Jan. 1971 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.70 ft below land-surface datum, Sep. 15, 1950;
 lowest measured, 60.92 ft below land-surface datum, Jan. 13, 1976.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar. 10	55.05
Sep. 19	58.47

320604104284101. (formerly 320602104285201) Local number, 25S.24E.27.421121.
 LOCATION.--Lat 32°06'02", long 104°28'52", Hydrologic Unit 13060011. Owner: Walker Hood.
 AQUIFER.--Alluvium.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 101 ft, uncased.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 3,701 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Northwest corner of pump base, 1.00 ft above land-surface datum.
 PERIOD OF RECORD.--Apr. 1952 to Aug. 1967, Jan. 1969 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 50.12 ft below land-surface datum, Aug. 22, 1988;
 lowest measured, 85.10 ft below land-surface datum, Aug. 25, 1967.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar. 11	55.50
Sep. 19	58.47

320316104294301. (formerly 320257104295201) Local number, 26S.24E.09.443111.
 LOCATION.--Lat 32°03'16", long 104°29'43", Hydrologic Unit 13060011. Owner: John Mayes.
 AQUIFER.--Alluvium.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 12 in., depth 100 ft, cased to 85 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 3,749.4 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of air-line flange support, 1.40 ft above land-surface datum.
 PERIOD OF RECORD.--Apr. 1952 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.31 ft below land-surface datum, Aug. 22, 1988;
 lowest measured, 54.98 ft below land-surface datum, Sep. 8, 1965.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar. 11	39.56
Sep. 19	41.53

GRANT COUNTY
Mimbres Basin

324245108175603. Local number, 18S.14W.28.143B.
 LOCATION.--Lat 32°42'45", long 108°17'56", Hydrologic Unit 13030202. Owner: Exxon Corp.
 AQUIFER.--Alluvium.
 WELL CHARACTERISTICS.--Drilled water-table unused irrigation well, diameter 6 in., depth unknown.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 5,800 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: 3/4 in. hole in cover plate, at land-surface datum.
 REMARKS.--"s" indicates nearby well pumping.
 PERIOD OF RECORD.--Mar. 1984 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 268.84 ft below land-surface datum, Jan. 14, 1986;
 lowest measured, 404.60 s ft below land-surface datum, Jan. 6, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 5	389.30 s
July 6	404.60 s

**GRANT COUNTY
Silver City Area**

324600108222501. Local number, 18S.15W.11.323.

LOCATION.--Lat 32°46'00", long 108°22'25", Hydrologic Unit 15040002. Owner: Town of Silver City.

AQUIFER.--Gila Conglomerate.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 12 in., casing 500 ft.

INSTRUMENTATION.--Digital recorder 1-hour punch.

Measuring point: Top of 12 in. casing, 1.50 ft above land-surface datum.

REMARKS.--Lost several days of record, due to recorder malfunction.

PERIOD OF RECORD.--Mar. 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 262.34 ft below land-surface datum, Mar. 3, 1962;
lowest measured, 294.52 ft below land-surface datum, Apr. 20, 1986.

**WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY HIGHEST VALUES, FROM RECORDER GRAPH**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	291.72	291.49	291.29	290.84	291.12	291.38	---	291.28	291.94	292.07	292.12	292.11
10	291.74	291.49	291.41	290.91	291.13	291.56	290.53	291.34	292.08	292.13	292.13	292.01
15	291.62	291.41	291.07	290.93	291.28	291.56	290.77	291.51	292.30	292.20	292.00	291.92
20	291.74	291.50	291.23	291.00	291.25	291.46	290.88	291.60	292.22	292.15	292.01	291.87
25	291.55	291.35	291.37	---	291.33	291.55	290.78	291.60	292.21	292.13	292.12	291.94
EOM	291.54	291.30	291.09	291.13	291.27	291.80	291.20	291.84	292.08	292.10	292.01	291.79

WTR YEAR 1994 HIGHEST 290.53 APR 9, 1994

LOWEST 292.33 JUN 14, 1994

**GUADALUPE COUNTY
Santa Rosa Area**

350414104485101. Local number, 10N.20E.28.2214.

LOCATION.--Lat 35°04'14", long 104°48'51", Hydrologic Unit 13060001. Owner: Town of Santa Rosa.

AQUIFER.--San Andres Limestone.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 12 3/4 in., casing 0-514 ft, 10 3/4 in.
505-575 ft, casing perforated 515-575 ft.

INSTRUMENTATION.--Digital recorder, 1-hour punch.

DATUM.--Elevation of land-surface datum is 5,162.7 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing 1.10 ft above land-surface datum.

REMARKS.--Records good.

PERIOD OF RECORD.--May 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 343.67 ft below land-surface datum, July 27, 1992;
lowest measured, 362.36 ft below land-surface datum, Apr. 12, 1978.

**WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY HIGHEST VALUES, FROM RECORDER GRAPH**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	346.15	347.21	348.06	348.79	349.80	350.61	350.60	349.82	347.97	347.34	348.80	347.56
10	346.34	347.39	348.25	349.02	349.94	350.79	350.51	349.64	347.86	347.78	348.75	347.33
15	346.38	347.59	348.24	349.15	350.16	350.89	350.55	349.28	347.64	348.00	348.56	347.19
20	346.61	347.84	348.49	349.35	350.27	350.94	350.38	348.96	347.55	348.23	348.44	347.13
25	346.75	347.97	348.63	349.46	350.38	350.75	350.06	348.73	347.59	348.43	348.26	347.18
EOM	346.96	348.02	348.71	349.72	350.43	350.75	350.00	348.36	347.61	348.81	347.66	347.25

WTR YEAR 1994 HIGHEST 345.93 OCT 1, 1993

LOWEST 350.97 MAR 17, 1994

**HARDING COUNTY
Roy Area**

355352104054201. Local number, 19N.27E.05.334.

LOCATION.--Lat 35°53'52", long 104°05'42", Hydrologic Unit 11080007. Owner: Town of Roy.

AQUIFER.--Ogallala formation.

WELL CHARACTERISTICS.--Drilled water-table municipal well, diameter 10 in., depth 75 ft, cased to 75 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 5,658 ft above National Geodetic Vertical Datum of 1929.

Measuring point: 3/4" plugged hole, east side, 1.50 ft above land-surface datum.

REMARKS.--Submersible pump installed in 1984.

PERIOD OF RECORD.--Jan. 1967 to present.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 48.34 ft below land-surface datum, Jan. 18, 1983;
lowest measured, 55.76 ft below land-surface datum, Aug. 19, 1987.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 19	50.22
July 20	50.80

GROUND-WATER LEVELS

HIDALGO COUNTY
Virden Valley

324051108594101. (formerly 324053108594101) Local number, 19S.21W.03.414.
 LOCATION.--Lat 32°40'51", long 108°59'41", Hydrologic Unit 15040002. Owner: Jones, Clouse, and Jensen.
 AQUIFER.--Valley Fill.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 20 in., depth 72 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 3,750 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Hole inside pump shell, 0.90 ft above land-surface datum.
 PERIOD OF RECORD.--Jan. 1959 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.50 ft below land-surface datum, Jan. 11, 1993;
 lowest measured, 15.79 ft below land-surface datum, Aug. 4, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 10	11.32
July 11	13.74

HIDALGO COUNTY
Lordsburg Area

321849108392001. (formerly 321848108391401) Local number, 23S.18W.12.333.
 LOCATION.--Lat 32°18'49", long 108°39'20", Hydrologic Unit 15040003. Owner: R. I. McDonald.
 AQUIFER.--Alluvium.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 12 in., depth 220 ft,
 perforations 100-220 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,240 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: End of entry port pipe, 1.50 ft above land-surface datum.
 PERIOD OF RECORD.--Apr. 1957 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 100.02 ft below land-surface datum, Jan. 11, 1958;
 lowest measured, 190.45 ft below land-surface datum, Aug. 7, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 11	162.79
July 12	162.82

321248108331401. (formerly 321257108331201) Local number, 24S.17W.14.442.
 LOCATION.--Lat 32°12'48", long 108°33'14", Hydrologic Unit 15040003. Owner: E. W. Richens.
 AQUIFER.--Alluvium.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 18 in., depth 420 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,265 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing 1.00 ft above land-surface datum.
 PERIOD OF RECORD.--May 1955 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 78.97 ft below land-surface datum, Jan. 7, 1981;
 lowest measured, 114.90 ft below land-surface datum, Jan. 15, 1970.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 10	87.44
July 11	88.96

Animas Valley

321624108504001. (formerly 321540108514101) Local number, 23S.20W.25.422.
 LOCATION.--Lat 32°16'24", long 108°50'40", Hydrologic Unit 15040003. Owner: Kerr Cattle Co.
 AQUIFER.--Alluvium.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 150 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,150 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing 0.40 ft above land-surface datum.
 PERIOD OF RECORD.--May 1948 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.36 ft below land-surface datum, May 21, 1948;
 lowest measured, 53.64 ft below land-surface datum, Jan. 12, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 11	53.78
July 12	- -

GROUND-WATER LEVELS

Animas Valley

315610108483901. (formerly 315645108493501) Local number, 27S.19W.20.343.
 LOCATION.--Lat 31°56'10" long 108°49'35" Hydrologic Unit 15040003. Owner: Felix Gauthier
 AQUIFER.--Alluvium.

INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,414 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top edge of 1 1/4 in. pipe in concrete pump base, 1.25 ft above land-surface datum.

PERIOD OF RECORD.--July 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 131.90 ft below land-surface datum, July 29, 1949;
 lowest measured, 198.50 ft below land-surface datum, Aug. 1, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 11	178.01
July 12	pumping

HIDALGO COUNTY
 San Simon Valley

315738109004001. Local number, 27S.21W.17.124.
 LOCATION.--Lat 34°57'38", long 109°00'40", Hydrologic Unit 15040006. Owner: E. J. Bagwell.
 AQUIFER.--Bolson.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 220 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,020 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Hole in west side of pump base, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--Jan. 1978, Jan. 1980, July 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 120.98 ft above land-surface datum, Jan. 10, 1980;
 lowest measured, 126.20 ft below land-surface datum, July 9, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 12	125.47
July 13	126.03

315048109010201. (formerly 315010108570001) Local number, 28S.21W.30.222.
 LOCATION.--Lat 31°50'48", long 109°01'02", Hydrologic Unit 15040006. Owner: C. L. Johnston.
 AQUIFER.--Alluvium.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 8 in. depth 471 ft, cased to 471 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,128 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Hole in west side of casing, 0.70 ft above land-surface datum.

PERIOD OF RECORD.--Jan. 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 110.88 ft below land-surface datum, Jan. 15, 1969;
 lowest measured, 124.93 ft below land-surface datum, July 16, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 12	121.96
July 13	122.75

Playas Valley

313502108275001. Local number, 31S.16W.33.233.
 LOCATION.--Lat 31°33'00", long 108°27'50", Hydrologic Unit 13030201. Owner: U-Bar Ranch.
 AQUIFER.--Alluvium.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 16 in., depth 654 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,404 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Bottom edge of shelf, 4.05 ft above land-surface datum.

PERIOD OF RECORD.--Jan. 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.66 ft below land-surface datum, Apr. 18-20, 1973;
 lowest measured, 54.95 ft below land-surface datum, Sep. 4, 1976.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 10	46.97
July 11	- -

GROUND-WATER LEVELS

HIDALGO COUNTY
Playas Valley

312938108302301. Local number, 32S.16W.30.134.
 LOCATION.--Lat 31°29'38", long 108°30'23", Hydrologic Unit 13030201. Owner: C. C. Edwards.
 AQUIFER.--Alluvium.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 150 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,490 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of 3/4 in. pipe nipple inside pump shell, 1.45 ft above land-surface datum.
 REMARKS.--"p" indicates pumping water level.
 PERIOD OF RECORD.--Mar. 1952 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 85.11 ft below land-surface datum, Mar. 27, 1952;
 lowest measured, 129.10p ft below land-surface datum, Aug. 20, 1962.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 10	86.57
July 11	86.56

LEA COUNTY
Tatum-Lovington-Hobbs Area

332115103403301. Local number, 11S.32E.24.113.
 LOCATION.--Lat 33°21'15", long 103°40'33", Hydrologic Unit 12080001. Owner: Paul Hamilton.
 AQUIFER.--Ogallala formation.
 WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 4 1/2 in., depth 110 ft.
 INSTRUMENTATION.--Digital recorder, 1-hour punch.
 DATUM.--Elevation of land-surface datum is 4,336 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 0.70 ft. above land-surface datum.
 REMARKS.--Records good.
 PERIOD OF RECORD.--Oct. 1977 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 59.74 ft above land-surface datum, Oct. 3, 1993;
 lowest measured, 62.67 ft below land-surface datum, Apr. 19, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	62.13	62.01	61.91	61.84	61.78	61.74	61.78	61.72	61.87	61.85	61.79	61.69
10	62.10	61.98	61.90	61.85	61.78	61.74	61.74	61.81	61.85	61.78	61.79	61.69
15	62.07	61.97	61.85	61.83	61.78	61.74	61.77	61.86	61.85	61.78	61.77	61.69
20	62.08	61.95	61.87	61.84	61.77	61.83	61.77	61.87	61.85	61.78	61.76	61.68
25	62.04	61.93	61.87	61.80	61.76	61.80	61.79	61.88	61.85	61.78	61.72	61.68
EOB	62.02	61.91	61.85	61.81	61.75	61.78	61.82	61.88	61.85	61.78	61.70	61.69

WTR YEAR 1994 HIGHEST 61.68 SEP 16, 1994 LOWEST 62.15 OCT 1, 1993

331713103285301. (formerly 331740103285001) Local number, 12S.34E.11.421.
 LOCATION.--Lat 33°17'22", long 103°28'50", Hydrologic Unit 12080006. Owner: A. D. Jones.
 AQUIFER.--Ogallala formation.
 WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 15 in., depth 87 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,144 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of concrete pump base, 0.80 ft above land-surface datum.
 PERIOD OF RECORD.--May 1949 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.57 ft below land-surface datum, May 24, 1949;
 lowest measured, 34.14 ft below land-surface datum, Aug. 17, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 3	30.87
Aug. 23	31.00

330428103251001. (formerly 330455103251301) Local number, 14S.35E.28.1111.
 LOCATION.--Lat 35°04'55", long 103°25'13", Hydrologic Unit 12080003. Owner: Paul Fisher.
 AQUIFER.--Ogallala formation.
 WELL CHARACTERISTICS.--Drilled water-table well, diameter 5 in., depth 137 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,031 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 2.00 ft above land-surface datum.
 PERIOD OF RECORD.--Jan. 1983 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.05 ft below land-surface datum, Jan. 5, 1994;
 lowest measured, 43.80 ft below land-surface datum, Sep. 3, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 5	43.05
Aug. 23	43.18

GROUND-WATER LEVELS

LEA COUNTY
Tatum-Lovington-Hobbs Area

330405103194501. (formerly 330400103193401) Local number, 14S.36E.32.12121.

LOCATION.--Lat 33°04'00", long 103°17'34", Hydrologic Unit 12080003. Owner: E. I. Howell.

AQUIFER.--Ogallala formation.
WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 10 in., depth and casing information not available.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,990 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of concrete pump base, 0.50 ft above land-surface datum.

PERIOD OF RECORD.--Jan. 1949 to Jan. 1950, Jan. 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.38 ft below land-surface datum, Jan. 19, 1949;
lowest measured, 70.07 ft below land-surface datum, Jan. 14, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 6	67.26
Aug. 23	destroyed

325730103213901. (formerly 325703103213201) Local number, 16S.36E.04.322.

LOCATION.--Lat 32°57'03", long 103°21'32", Hydrologic Unit 12080003. Owner: City of Lovington.

AQUIFER.--Ogallala formation.

WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 13 in., depth 212 ft, perforated 80-208 ft.

INSTRUMENTATION.--Digital recorder, 1-hour punch.

DATUM.--Elevation of land-surface datum is 3,926 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of shelf, 4.00 ft above land-surface datum.

REMARKS.--Lost several days of record, due to recorder malfunction.

PERIOD OF RECORD.--Aug. 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.72 ft below land-surface datum, Mar. 11, 1994;
lowest measured, 67.11 ft below land-surface datum, Aug. 24, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	58.13	58.01	57.91	---	---	---	57.81	58.00	57.99	58.00	58.12	58.11
10	58.10	58.01	57.91	---	---	57.76	57.83	58.00	57.98	58.04	58.12	58.09
15	58.08	58.00	57.86	---	---	57.74	57.90	58.03	57.96	58.06	58.13	58.07
20	58.08	57.99	57.87	---	---	57.73	57.94	58.02	57.97	58.07	58.12	58.06
25	58.05	57.98	57.88	---	---	57.73	57.93	58.00	57.92	58.08	58.12	58.06
EOB	58.04	57.93	57.82	---	---	57.81	58.00	58.01	57.94	58.10	58.11	58.03

WTR YEAR 1994 HIGHEST 57.72 MAR 11, 1994 LOWEST 58.14 OCT 2, 1993

325658103200001. Local number, 16S.37E.11.11111.

LOCATION.--Lat 32°56'58", long 103°20'00", Hydrologic Unit 12080003. Owner: H. J. Taylor.

AQUIFER.--Ogallala formation.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., reported depth 118 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,900 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of 1 in. hole in southwest side of pump, 1.34 ft above land-surface datum.

PERIOD OF RECORD.--Jan. 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.93 ft below land-surface datum, Jan. 23, 1949;
lowest measured, 78.64 ft below land-surface datum, Jan. 3, 1979.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 7	65.79
Aug. 23	66.06

324940103365801. (formerly 324947103371001) Local number, 17S.33E.13.34122.

LOCATION.--Lat 32°49'47", long 103°37'10", Hydrologic Unit 12080003. Owner: Potash Co. of America.

AQUIFER.--Ogallala formation.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 6 in., depth 252 ft, cased to 252 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,124 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing 1.10 ft above land-surface datum.

PERIOD OF RECORD.--Jan. 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 146.00 ft below land-surface datum, Jan. 21, 1953;
lowest measured, 179.10 ft below land-surface datum, Jan. 8, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 8	178.15
Aug. 23	178.75

GROUND-WATER LEVELS

LEA COUNTY
Tatum-Lovington Hobbs Area

325132103112501. Local number, 17S.38E.07.111311.
 LOCATION.--Lat 32°51'32", long 103°11'25", Hydrologic Unit 12080003. Owner: L. R. Seblings.
 AQUIFER.--Ogallala formation.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., reported depth 125 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 3,740 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Edge of pipe on west side of pump, 0.95 ft above land-surface datum.
 PERIOD OF RECORD.--July 1951 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.59 ft below land-surface datum, Mar. 21, 1952;
 lowest measured, 74.15 ft below land-surface datum, July 22, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 5	66.54
Aug. 23	67.15

324745103082001. Local number, 17S.38E.34.113143.
 LOCATION.--Lat 32°47'45", long 103°08'20", Hydrologic Unit 12080003. Owner: W. E. Busby.
 AQUIFER.--Ogallala formation.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 12 in., depth 125 ft, cased to 90 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 3,660 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 0.40 ft above land-surface datum.
 PERIOD OF RECORD.--Nov. 1943 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.78 ft below land-surface datum, Jan. 15, 1944;
 lowest measured, 66.18 ft below land-surface datum, Aug. 23, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 5	64.65
Aug. 23	66.18

LINCOLN COUNTY
Hondo Valley

333241105341101. (formerly 333242105340701) Local number, 09S.14E.10.13221.
 LOCATION.--Lat 33°32'42", long 105°34'07", Hydrologic Unit 13060008. Owner: Village of Capitan.
 AQUIFER.--Mancos Shale of Late Cretaceous age.
 WELL CHARACTERISTICS.--Drilled water-table municipal well, diameter 8 in., depth 324 ft, cased to 271 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 6,340 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of breather hole on west side of pump base, 1.00 ft above land-surface datum.
 PERIOD OF RECORD.--June 1955 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.56 ft below land-surface datum, Jan. 28, 1993;
 lowest measured, 69.77 ft below land-surface datum, Nov. 28, 1956.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan.	not measured
Sep. 15	37.79

332102105333601. (formerly 332145105333001) Local number, 11S.14E.15.432334.
 LOCATION.--Lat 33°21'08", long 105°33'30", Hydrologic Unit 13060008. Owner: E. H. Fuchs.
 AQUIFER.--Alluvium.
 WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 8 in., depth 90 ft, casing information not available.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 6,200 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing 1.00 ft above land-surface datum.
 PERIOD OF RECORD.--July 1955 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.16 ft below land-surface datum, Mar. 26, 1958;
 lowest measured, 63.75 ft below land-surface datum, Aug. 10, 1970.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 12	59.89
Sep.	not measured

GROUND-WATER LEVELS

LINCOLN COUNTY
Hondo Valley

332110105092501. (formerly 332157105094101) Local number, 11S.18E.15.33313.

LOCATION.--Lat 32°29'30", long 107°22'10", Hydrologic Unit 13030202. Owner: LINCOLN COUNTY LIVESTOCK CO.

AQUIFER.--Vaso formation of Permian age.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 12 in., depth 125 ft, cased to 110 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,989 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 0.50 ft above land-surface datum.

PERIOD OF RECORD.--Oct. 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.43 ft below land-surface datum, Aug. 18, 1988;
lowest measured, 60.18 ft below land-surface datum, Jan. 15, 1959.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 4	46.42
Sep. 15	45.27

LUNA COUNTY
Nutt-Hockett

322927107220101. (formerly 322930107221001) Local number, 21S.05W.08.444.

LOCATION.--Lat 32°29'30", long 107°22'10", Hydrologic Unit 13030202. Owner: Leonard Farms.

AQUIFER.--Valley Fill.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 435 ft, cased to 435 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,530 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Hole in NE side of pump shell, 1.60 ft above land-surface datum.

PERIOD OF RECORD.--Nov. 1961 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 102.06 ft below land-surface datum, Jan. 17, 1962;
lowest measured, 202.97 ft below land-surface datum, Jan. 4, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 4	202.97
July 5	pumping

Mimbres Valley

321352107493901. Local number, 24S.10W.12.431.

LOCATION.--Lat 32°13'52", long 107°49'39", Hydrologic Unit 13030202. Owner: Steve Hrna.

AQUIFER.--Bolson deposits.

WELL CHARACTERISTICS.--Dug and drilled water-table unused well, diameter 36 in., reported depth 132 ft.

INSTRUMENTATION.--Continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 4,330 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of recorder shelter shelf, 1.36 ft above land-surface datum.

REMARKS.--Recorder re-installed Jan.26, 1994. Lost several days of record due to recorder malfunction.

PERIOD OF RECORD.--Apr. 1939 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 71.61 ft below land-surface datum, May 6-13, 1940;
lowest measured, 113.30 ft below land-surface datum, Aug. 12 and 20, 1976.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5				---	104.16	103.95	104.12	104.75	104.96	104.89	104.45	104.11
10				---	104.05	103.98	104.29	104.77	105.01	104.81	104.48	104.11
15				---	103.97	103.93	104.45	104.82	105.01	---	104.52	104.23
20				---	103.88	104.01	104.50	104.79	105.08	---	104.31	104.19
25				---	104.03	104.09	104.49	104.80	104.99	104.71	104.13	104.24
EOB				104.10	103.97	104.23	104.76	104.91	104.92	104.62	104.05	104.00

WTR YR 1994 HIGHEST 103.80 FEB 13, 1994 LOWEST 105.07 JUN 19, 1994

321328107565301. (formerly 321415107565501) Local number, 24S.11W.14.122.

LOCATION.--Lat 32°13'28", long 107°56'55", Hydrologic Unit 13030202. Owner: Charles Waldrop.

AQUIFER.--Bolson deposits.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 12 in., reported depth 350 ft, cased to 198 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,405 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of 1 in. hole in pump base, 0.80 ft above land-surface datum.

PERIOD OF RECORD.--July 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 107.66 ft below land-surface datum, Jan. 23, 1952;
lowest measured, 228.00 ft below land-surface datum, May 11, 1956.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 3	174.45
July 5	183.23

GROUND-WATER LEVELS

LUNA COUNTY
Mimbres Valley

321010107260201. (formerly 321015107260501) Local number, 25S.06W.02.111.
 LOCATION.--Lat 32°10'15", long 107°26'05", Hydrologic Unit 13030202. Owner: C. W. Johnson, Jr.
 AQUIFER.--Bolson deposits.
 WELL CHARACTERISTICS.--Drilled artesian irrigation well, diameter 16 in., depth 235 ft, perforated 180-235 ft, gravel packed.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,090 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 1.30 ft above land-surface datum.
 PERIOD OF RECORD.--May 1952 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.45 ft below land-surface datum, Mar. 14, 1953;
 lowest measured, 117.66 ft below land-surface datum, Aug. 6, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 4	21.80
July 5	25.28

320918107293301. (formerly 320915104294501) Local number, 25S.06W.07.211.
 LOCATION.--Lat 32°09'15", long 107°29'45", Hydrologic Unit 13030202. Owner: H. C. Telles.
 AQUIFER.--Bolson deposits.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 230 ft, cased to 230 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,084.22 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Hole in pump base, 1.20 ft above land-surface datum (since Jan. 15, 1966).
 PERIOD OF RECORD.--Jan. 1953 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 65.34 ft below land-surface datum, Mar. 14, 1953;
 lowest measured, 122.16 ft below land-surface datum, Aug. 13, 1970.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 4	83.27
July 5	83.09

320647107490701. Local number, 25S.09W.19.31331.
 LOCATION.--Lat 32°26'47", long 107°49'07", Hydrologic Unit 13030202. Owner: Tryon.
 AQUIFER.--Alluvium.
 WELL CHARACTERISTICS.--Drilled water-table unused irrigation well, diameter 14 in., depth 240 ft, cased to 240 ft, perforated 80-240 ft.
 INSTRUMENTATION.--Periodic electric-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,070 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 1.00 ft above land-surface datum.
 PERIOD OF RECORD.--July 1959 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 98.68 ft below land-surface datum, Feb. 10, 1959;
 lowest measured, 216.78 ft below land-surface datum, Aug. 19, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	193.91	NOV 19	187.58	DEC 20	184.60	JAN 26	180.89	FEB 21	186.00	MAR 21	198.12
APR 20	198.39	MAY 23	212.61	JUNE 23	213.50	JULY 22	212.98	AUG 19	216.78	SEP 21	211.40

315517107375001. (formerly 315525107374501) Local number, 27S.08W.35.122.
 LOCATION.--Lat 31°55'25", long 107°37'45", Hydrologic Unit 13030202. Owner: M. M. Gibson.
 AQUIFER.--Bolson deposits.
 WELL CHARACTERISTICS.--Drilled water-table unused irrigation well, diameter 12 to 8 in., depth 550 ft, cased to 550 ft, perforated 155-550 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,070 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 0.20 ft above land-surface datum.
 PERIOD OF RECORD.--July 1952 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.84 ft below land-surface datum, Mar. 16, 1953;
 lowest measured, 119.34 ft below land-surface datum, Aug. 3, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 3	77.24
July 5	79.79

GROUND-WATER LEVELS

LUNA COUNTY
Mimbres Valley

315903107424501. (formerly 31590310/425001) Local number, 2/S.U9W.01.431.

AQUIFER.--Valley fill.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 62 ft, cased to 62 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,135 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top edge of rectangular hole in pump base, 0.65 ft above land-surface datum.

PERIOD OF RECORD.--Jan. 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.61 ft below land-surface datum, Jan. 19, 1954;
lowest measured, 47.26 ft below land-surface datum, Aug. 11, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 3	38.33
July 5	38.69

314942107361001. (formerly 314938107371401) Local number, 28S.08W.36.411.

LOCATION.--Lat 31°49'38", long 107°37'14", Hydrologic Unit 13030202. Owner: M. R. Hemley.

AQUIFER.--Bolson deposits.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 250 ft, cased to 250 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,008 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 1.85 ft above land-surface datum.

PERIOD OF RECORD.--Jan. 1961 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.18 ft below land-surface datum, Aug. 2, 1983;
lowest measured, 27.85 ft below land-surface datum, Jan. 14, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 3	13.14
July 5	13.09

MCKINLEY COUNTY
San Juan Basin

352023107473201. Local number, 13N.09W.21.4123.

LOCATION.--Lat 35°20'23", long 107°47'32", Hydrologic Unit 13020207. Owner: Nabor Marquez.

AQUIFER.--Morrison Formation.

WELL CHARACTERISTICS.--Drilled water-table unused stock well, diameter 6 in., depth 155 ft, cased to 155 ft.

INSTRUMENTATION.--Monthly steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,785 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 0.80 ft above land-surface datum.

PERIOD OF RECORD.--July 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 58.30 ft below land-surface datum, Feb. 22, 1978;
lowest measured, 144.80 ft below land-surface datum, Dec. 8, 1955.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	82.38	NOV 23	82.44	DEC 22	81.64	JAN 27	82.72	FEB 28	82.94	MAR 22	82.93
APR 28	83.33	MAY 26	83.47	JUNE 28	83.70	JULY 27	83.85	AUG 24	85.40	SEP 21	86.83

353645108011501. Local number, 16N.11W.17.4322.

LOCATION.--Lat 35°36'45", long 108°01'15", Hydrologic Unit 14080106. Owner: Navajo Nation.

AQUIFER.--Gallup Sandstone.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 5/8 in., depth 570 ft, cased to

570 ft, perforated 470-570 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 7,070 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 0.53 ft above land-surface datum.

REMARKS.--"p" indicates well pumping.

PERIOD OF RECORD.--July 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 265.10 ft below land-surface datum, July 10, 1959;
lowest measured, 318.28 ft below land-surface datum, July 21, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar. 10	291.65 p
July 11	283.36

GROUND-WATER LEVELS

McKINLEY COUNTY
San Juan Basin

353521108284901. Local number, 16N.16W.25.142.

LOCATION.--Lat 35°35'21", long 108°28'49", Hydrologic Unit 15020006. Owner: Navajo Nation.

AQUIFER.--Entrada Sandstone.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 8 3/4 in., depth 1,052 ft, cased to 1,052 ft, perforated 628-896, 974-1033 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 7,115 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Hole in cover plate, 0.80 ft above land-surface datum.

PERIOD OF RECORD.--Oct. 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 126.81 ft below land-surface datum, July 11, 1994; lowest measured, 160.64 ft below land-surface datum, Feb. 20, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar. 10	127.81
July 11	126.81

354235108170702. Local number, 17N.14W.13.1144B.

LOCATION.--Lat 35°42'35", long 108°17'07", Hydrologic Unit 14080106. Owner: United Nuclear.

AQUIFER.--Morrison Sandstone.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 8 5/8 in. 0-2,225 ft, total depth 2,225 ft.

Perforated 1,820-2,225 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,757.70 ft above National Geodetic Vertical Datum of 1929.

Measuring point: 3/8 in. plug, 0.80 ft above land-surface datum.

PERIOD OF RECORD.--Aug. 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 252.25 ft below land-surface datum, July 11, 1994; lowest measured, 350.38 ft below land-surface datum, Oct. 8, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar. 10	253.94
July 11	252.25

354235108170703. Local number, 17N.14W.13.1144C.

LOCATION.--Lat 35°42'35", long 108°17'07", Hydrologic Unit 14080106. Owner: United Nuclear.

AQUIFER.--Dakota Sandstone.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 8 5/8 in. 0-54 ft, 6 5/8 in. 54-1,728 ft.

Perforated 1,587-1,728 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,757.70 ft above National Geodetic Vertical Datum of 1929.

Measuring point: 3/8 in. plug, 0.80 ft above land-surface datum.

PERIOD OF RECORD.--Aug. 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 76.21 ft below land-surface datum, Aug. 4, 1982; lowest measured, 126.35 ft below land-surface datum, July 11, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar. 10	126.25
July 11	126.35

GROUND-WATER LEVELS

MORA COUNTY
Watrous Area

354819104290401. (formerly 354840104590301) Local number, 18N.18E.01.333.

LOCATION.--Lat 35°48'40", long 104°59'03", Hydrologic Unit 11080004. Owner: Sellman Bros.

AQUIFER.--Alluvium.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 14 in., depth 100 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,420 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Hole in southeast corner of pump base, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.21 ft below land-surface datum, July 17, 1984; lowest measured, 6.74 ft below land-surface datum, Feb. 14, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Feb. 17	4.47
Aug. 10	3.15

GROUND-WATER LEVELS

OTERO COUNTY
Tularosa-Alamogordo Area

330321106011101. (formerly 330324106011201) Local number, 14S.10E.31.144.

LOCATION.--Lat 32°06'57", long 105°06'15", Hydrologic Unit 13050004. Owner: Gene Lewis.

AQUIFER.--Bolson deposits.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth unknown.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,450 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top edge of 1 in. hole in pump base, 0.70 ft above land-surface datum.

PERIOD OF RECORD.--Apr. 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 73.75 ft below land-surface datum, Apr. 8, 1952;
lowest measured, 134.21 ft below land-surface datum, Aug. 3, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Feb. 5	84.83
July 29	93.49

Crow Flats Basin
(Salt Basin)

320657105061501. Local number, 25S.18E.21.233.

LOCATION.--Lat 32°06'57", long 105°06'15", Hydrologic Unit 13050004. Owner: Gene Lewis.

AQUIFER.--Bolson deposits.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth unknown.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,690 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing 0.50 ft above land-surface datum.

PERIOD OF RECORD.--Apr. 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 68.80 ft below land-surface datum, Apr. 20, 1956;
lowest measured, 101.55 ft below land-surface datum, Sep. 15, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar. 11	87.98
Sep. 19	89.75

320138105063101. (formerly 320650105034801) Local number, 26S.18E.21.331.

LOCATION.--Lat 32°01'38", long 105°06'31", Hydrologic Unit 13050004. Owner: Frank Gentry.

AQUIFER.--Bolson deposits.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 18 in., depth 544 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,655 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--Jan. 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.08 ft below land-surface datum, Jan. 8, 1973;
lowest measured, 82.94 ft below land-surface datum, Aug. 17, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar. 11	55.57
Sep. 19	62.66

320008105064501. Local number, 26S.18E.33.133.

LOCATION.--Lat 32°00'08", long 105°06'45", Hydrologic Unit 13050004. Owner: J. W. Hill.

AQUIFER.--Bone Spring Limestone.

WELL CHARACTERISTICS.--Drilled water-table used irrigation well, diameter 14 in., depth 435 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,620 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 0.80 ft. above land-surface datum.

PERIOD OF RECORD.--Feb. 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.50 ft below land-surface datum, Feb. 15, 1956;
lowest measured, 62.84 ft below land-surface datum, Aug. 20, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar. 11	50.70
Sep. 19	57.79

GROUND-WATER LEVELS

QUAY COUNTY
House Area

343848103555801. Local number, 05N.28E.23.222232.
 LOCATION.--Lat 34°38'48", long 103°55'58", Hydrologic Unit 13060004. Owner: Jimmy Snipes.
 AQUIFER.--Ogallala formation.
 WELL CHARACTERISTICS.--Drilled water-table stock well, diameter 6 in., depth 93.5 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,788 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, west side, 2.00 ft above land-surface datum.
 REMARKS.--"r" indicates well pumped recently.
 PERIOD OF RECORD.--Jan. 1968 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.50 ft below land-surface datum, Sep. 15, 1994;
 lowest measured, 84.22r ft below land-surface datum, Feb. 18, 1972.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar. 16	74.57
Sep. 15	74.50

343855103482901. (formerly 343810103463001) Local number, 05N.30E.18.331311.
 LOCATION.--Lat 34°38'55", long 103°48'29", Hydrologic Unit 13060004. Owner: W. C. and H. J. Lee.
 AQUIFER.--Ogallala formation.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 75 ft, cased to 60 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,630 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of concrete pump base, 0.50 ft above land-surface datum.
 REMARKS.--"r" indicates well pumped recently.
 PERIOD OF RECORD.--May. 1944 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.76 ft below land-surface datum, Mar. 28, 1946;
 lowest measured, 51.49 ft below land-surface datum, Aug. 11, 1969.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar. 16	pumping
Sep. 15	51.68 r

344406103555501. Local number, 06N.28E.13.33333.
 LOCATION.--Lat 34°44'06", long 103°55'55", Hydrologic Unit 13060004. Owner: Jack Jennings.
 AQUIFER.--Alluvium.
 WELL CHARACTERISTICS.--Drilled domestic well, diameter 16 in., depth 131 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,816 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: 3/4 in. hole in cover plate, 0.40 ft above land-surface datum.
 PERIOD OF RECORD.--Jan. 1948 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 100.47 ft below land-surface datum, Jan. 20, 1948;
 lowest measured, 119.82 ft below land-surface datum, Sep. 15, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar. 16	119.22
Sep. 15	119.82

QUAY COUNTY
Lower Canadian

351040103433602. Local number, 11N.30E.14.144D.
 LOCATION.--Lat 35°10'40", long 104°43'36", Hydrologic Unit 11080006. Owner: Southern Pacific R. R.
 AQUIFER.--Alluvium.
 WELL CHARACTERISTICS.--Drilled water-table unused test well, diameter 6 in., depth 295 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,080 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of 1.5 in. pipe extension, 4.20 ft above land-surface datum.
 PERIOD OF RECORD.--July 1952 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.20 ft below land-surface datum, Sep. 9, 1963;
 lowest measured, 137.66 ft below land-surface datum, Dec. 16, 1952.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 20	48.23
July 21	71.78

GROUND-WATER LEVELS

QUAY COUNTY
Northern High Plains

353239103111301. Local number 15N.35E.11.21222.

LOCATION.--Lat 35°32'39", long 103°11'13", Hydrologic Unit 11080006. Owner: J. L. Smith.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 12 in., depth 175 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,126 ft above National Geodetic Vertical Datum of 1929.

Measuring point: 2 1/2 in. hole, in east side of casing, 1.20 ft above land-surface datum.

PERIOD OF RECORD.--July 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 88.99 ft below land-surface datum, July 21, 1994;

lowest measured, 114.67 ft below land-surface datum, Feb. 5, 1974.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 20	89.45
July 21	88.99

354238103132301. Local number, 17N.35E.16.221.

LOCATION.--Lat 35°42'38", long 103°13'23", Hydrologic Unit 11090101. Owner: L. C. Morrison.

AQUIFER.--Dakota formation.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter unknown, depth 250 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,465 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Hole in south side of pump base, 2.00 ft. above land-surface datum.

PERIOD OF RECORD.--Oct. 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 159.30 ft below land-surface datum, Apr. 10, 1991;

lowest measured, 171.59 ft below land-surface datum, Sep. 19, 1988.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 20	169.33
July 21	pumping

ROOSEVELT COUNTY
Portales Valley

341037103254501. Local number, 01S.33E.36.23111.

LOCATION.--Lat 34°10'37", long 103°25'45", Hydrologic Unit 12050002. Owner: State of New Mexico.

AQUIFER.--Alluvium.

WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 18 in., depth 105 ft.

INSTRUMENTATION.--Digital recorder, 1-hour punch.

DATUM.--Elevation of land-surface datum is 4,048 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing 1.95 ft above land-surface datum.

REMARKS.--Lost record, several days, due to recorder malfunction.

PERIOD OF RECORD.--Jan. 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.19 ft below land-surface datum, Jan. 25, 1952;

lowest measured, 86.42 ft below land-surface datum, Jan. 17, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	83.23	83.22	---	---	---	---	82.85	82.81	82.81	82.89	83.04	83.26
10	83.21	83.19	---	---	---	---	82.80	82.86	82.82	82.91	83.05	83.25
15	83.21	83.18	---	---	---	---	82.86	82.83	82.84	82.92	83.08	83.27
20	83.23	---	83.06	---	---	82.95	82.82	82.82	82.86	82.96	83.16	83.29
25	83.21	---	83.03	---	---	82.78	82.80	82.80	82.86	82.97	83.16	83.34
ECM	83.19	---	---	---	---	82.84	82.84	82.81	82.88	83.03	83.21	83.35

WTR YEAR 1994 HIGHEST 82.78 MAR 25, 1994

LOWEST 83.35 SEP 24, 1994

GROUND-WATER LEVELS

ROOSEVELT COUNTY
Portales Valley

340732103145001. Local number, 02S.35E.23.11113.

LOCATION.--Lat 34°07'32", long 103°14'50", Hydrologic Unit 12050001. Owner: Herman Gras.

AQUIFER.--Alluvium.

WELL CHARACTERISTICS.--Drilled water-table unused irrigation well, diameter 10 in., depth 80 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,961 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of 1.5 in. shaft hole, in center of pump, 2.80 ft above land-surface datum.

PERIOD OF RECORD.--July 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.32 ft below land-surface datum, Mar. 27, 1951;
lowest measured, 56.33 ft below land-surface datum, July 21, 1954.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 5	51.36
Aug. 23	53.40

340753103083101. Local number, 02S.36E.14.311111.

LOCATION.--Lat 34°07'53", long 103°08'31", Hydrologic Unit 12050001. Owner: Rogers.

AQUIFER.--Alluvium.

WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 16 in., depth 151 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,938 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--Jan. 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.37 ft above land-surface datum, Jan. 6, 1975;
lowest measured, 79.44 ft below land-surface datum, July 25, 1990.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 5	72.84
July	not measured

340844103055001. Local number, 02S.37E.07.432222.

LOCATION.--Lat 34°08'44", long 103°05'50", Hydrologic Unit 12050001. Owner: Rogers.

AQUIFER.--Ogallala Formation.

WELL CHARACTERISTICS.--Drilled water-table unused irrigation well, diameter 13.5 in., depth 204 ft, cased to 204 ft, perforated 151-204 ft.

INSTRUMENTATION.--Digital recorder, 1-hour punch.

DATUM.--Elevation of land-surface datum is 3,982 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Edge of recorder shelter, 3.00 ft. above land-surface datum.

REMARKS.--Recorder installed June 2, 1992. Lost record, due to recorder malfunction.

PERIOD OF RECORD.--June 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 103.78 ft below land-surface datum, June 2 1992;
lowest measured, 113.71 ft below land-surface datum, Sep. 18, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	108.81	108.53	107.87	107.54	107.76	107.14	106.83	107.58	108.27	111.11	113.18	---
10	108.81	108.36	107.82	107.69	107.34	107.07	108.53	108.23	109.70	109.96	---	---
15	108.79	108.20	107.99	107.54	107.34	107.02	107.84	108.22	110.45	112.16	---	112.98
20	108.74	108.11	107.89	107.60	107.36	106.97	107.81	107.56	110.83	112.28	---	113.36
25	108.67	108.03	107.76	107.55	107.23	106.78	107.48	108.37	110.79	112.45	---	112.79
EOY	108.54	107.98	107.60	107.38	107.19	107.19	108.21	107.70	110.70	112.69	---	112.86

WTR YEAR 1994 HIGHEST 106.78 MAR 25, 1994 LOWEST 113.71 SEP 18, 1994

GROUND-WATER LEVELS

ROOSEVELT COUNTY
Causey-Lingo Area

334700103030601. (formerly 335655103032001) Local number, 06S.38E.21.233131.

LOCATION.--Lat 33°47'00" long 103°03'11" Hydrologic Unit 13020201. Owner: C. C. Lingo.

AQUIFER.--Undifferentiated Cretaceous rocks.

slotted 100-140 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,939 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of 1 in. hole in north side of pump, 2.10 ft above land-surface datum.

REMARKS.--"p" means well pumping during measurement.

PERIOD OF RECORD.--Jan. 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 87.18 ft below land-surface datum, Jan. 13, 1956;

lowest measured, 115.21p ft below land-surface datum, Aug. 11, 1976.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 7	90.85
Aug. 23	94.91

SANDOVAL COUNTY
Bernalillo Area

352121106285501. (formerly 352235106282401) Local number, 13N.04E.12.112.

LOCATION.--Lat 35°22'35" long 106°28'24" Hydrologic Unit 13020201. Owner: John Bowers.

AQUIFER.--Valley Fill

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 12 in., depth 50 ft, cased.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 5,117 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Lower inside edge of hole in south side of casing 0.45 ft above land-surface datum.

PERIOD OF RECORD.--Jan. 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.57 ft below land-surface datum, July 18, 1991;

lowest measured, 25.27 ft below land-surface datum, Jan. 31, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Feb.	not measured
June 27	21.85

SAN JUAN COUNTY
San Juan Basin

364543108292701. Local number, 29N.15W.02.232.

LOCATION.--Lat 36°57'34" long 108°9'22" Hydrologic Unit 14080105. Owner: Myrl Harper.

AQUIFER.--Alluvium.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 10 in., depth 37 ft, cased to 37 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 5,045 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 1.05 ft above land-surface datum.

PERIOD OF RECORD.--Apr. 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.39 ft below land-surface datum, Apr. 29, 1992;

lowest measured, 10.02 ft below land-surface datum, Sep. 7, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar. 9	9.90
July 12	8.55

364744108225001. Local number, 30N.15W.23.4411.

LOCATION.--Lat 36°47'44" long 108°22'50" Hydrologic Unit 14080105. Owner: B.L.M.

AQUIFER.--Pictured Cliffs Sandstone.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 5 in., depth 729.5 ft, cased to 729.5 ft, perforated 613-729.5 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 5,290 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--Feb. 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 123.75 ft below land-surface datum, Feb. 21, 1978;

lowest measured, 154.24 ft below land-surface datum, July 12, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Mar. 9	154.27
July 12	155.24

GROUND-WATER LEVELS

SANTA FE COUNTY
Estancia Valley

350534106024801. (formerly 350525106025001) Local number, 10N.08E.13.1332.
 LOCATION.--Lat 35°05'34", long 106°02'48", Hydrologic Unit 13050001. Owner: W. R. Irby.
 AQUIFER.--Valley Fill.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., reported depth 513 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 6,274 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Lower inside edge of hole in south side of casing, 0.45 ft above land-surface datum.
 REMARKS.--"s" indicates nearby well pumping.
 PERIOD OF RECORD.--Feb. 1950 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 86.75 ft below land-surface datum, Feb. 22, 1950;
 lowest measured, 181.55 ft below land-surface datum, Aug. 4, 1969.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 20	143.45
July 13	154.70 s

350344106004601. (formerly 350340106005001) Local number, 10N.09E.29.1334.
 LOCATION.--Lat 35°03'44", long 106°00'46", Hydrologic Unit 13050001. Owner: Phil Wallen.
 AQUIFER.--Glorieta Sandstone of Permian age.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 14 in., reported depth 200 ft, cased to 140 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 6,248 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top edge of 3 in. pipe on north side of pump, 1.30 ft above land-surface datum.
 PERIOD OF RECORD.--Feb. 1949 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 55.00 ft below land-surface datum, May 4, 1949;
 lowest measured, 124.46 ft below land-surface datum, Aug. 12, 1988.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 20	121.53
July 13	120.64

350859106002901. Local number, 11N.09E.29.143.
 LOCATION.--Lat 35°08'59", long 106°00'29", Hydrologic Unit 13050001. Owner: King Bros.
 AQUIFER.--Alluvium.
 WELL CHARACTERISTICS.--Drilled water-table unused irrigation well, diameter 15 in., depth unknown.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 6,274 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 0.80 ft above land-surface datum.
 PERIOD OF RECORD.--July 1986 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 125.93 ft below land-surface datum, Apr. 1, 1987;
 lowest measured, 133.88 ft below land-surface datum, July 13, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 20	133.83
July 13	133.88

Santa Fe Area

353636106021001. Local number, 16N.08E.13.444.
 LOCATION.--Lat 35°36'36", long 106°02'10", Hydrologic Unit 13020201. Owner: Harold Nelson.
 AQUIFER.--Tesuque Formation of Santa Fe Group.
 WELL CHARACTERISTICS.--Drilled domestic well, diameter 6 1/2 in., depth 337 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 6,400 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 0.70 ft above land-surface datum.
 PERIOD OF RECORD.--Feb. 1972 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 256.04 ft below land-surface datum, Jan. 20, 1982;
 lowest measured, 263.54 ft below land-surface datum, Feb. 15, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Feb. 15	263.54
Aug. 22	263.15

GROUND-WATER LEVELS

SANTA FE COUNTY
Santa Fe Area

353516106035801. Local number, 16N.08E.26.32112.

LOCATION.--Lat 35°37'53", long 105°58'05", Hydrologic Unit 13020201. Owner: State Highway Dept.
AQUIFER.--Tasque Formation of Santa Fe Group.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 10 in., depth 160 ft, cased to 160 ft, perforated 125-160 ft.

INSTRUMENTATION.--Digital recorder, 1-hour punch.

DATUM.--Elevation of land-surface datum is 6,285 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 1.25 ft above land-surface datum.

REMARKS.--Lost several months of record due to recorder malfunction.

PERIOD OF RECORD.--July 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 125.62 ft below land-surface datum, June 11, 1973;
lowest measured, 129.96 ft below land-surface datum, Sep. 26, 1993.WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	129.85	129.90	129.98						129.99	130.03	130.05	130.16
10	129.85	129.88	---						129.98	130.00	130.09	130.14
15	129.87	129.94	---						130.02	130.03	130.08	130.15
20	129.95	129.93	---						130.02	130.07	130.15	130.13
25	129.90	129.97	---						130.00	130.06	130.11	130.12
EQM	129.87	129.95	---						130.01	130.09	130.11	130.12

WTR YEAR 1994 HIGHEST 129.81 OCT 3, 1993 LOWEST 130.16 AUG 24, 1994

353735105581201. (formerly 353753105580501) Local number, 16N.09E.10.42114.

LOCATION.--Lat 35°37'53", long 105°58'05", Hydrologic Unit 13020201. Owner: Paul Ragel.

AQUIFER.--Ancha Formation of Santa Fe Group.

WELL CHARACTERISTICS.--Drilled domestic well, diameter 6 in., depth 243 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,820 ft above National Geodetic Vertical Datum of 1929.

Measuring point: 1/2 in. plug in cover plate, 6.00 ft below land-surface datum.

PERIOD OF RECORD.--Aug. 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 149.52 ft below land-surface datum, Dec. 11, 1957;
lowest measured, 230.44 ft below land-surface datum, Aug. 22, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Feb. 14	223.42
Aug. 22	230.44

SANTA FE COUNTY
Santa Fe Area

354013105580601. (formerly 354005105574501) Local number, 17N.09E.27.441.

LOCATION.--Lat 35°40'05", long 105°57'45", Hydrologic Unit 13020201. Owner: U.S. Indian School.

AQUIFER.--Tesuque Formation of Santa Fe Group.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 8 in., depth 989 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,848 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing 2.40 ft above land-surface datum.

PERIOD OF RECORD.--Dec. 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 102.33 ft below land-surface datum, Dec. 27, 1951;
lowest measured, 230.86 ft below land-surface datum, Aug. 22, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Feb. 15	229.19
Aug. 22	230.86

SIERRA COUNTY
Hot Springs Area

331002107150001. Local number, 13S.04W.21.213.

LOCATION.--Lat 33°10'02", long 107°15'00", Hydrologic Unit 13030101. Owner: Unknown.

AQUIFER.--Alluvium.

WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 13 in., depth unknown.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,355 ft above National Geodetic Vertical Datum of 1929.

Measuring point: 1 in. hole in west side of pump base, and 1.50 ft above land-surface datum.

PERIOD OF RECORD.--Feb. 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 48.84 ft below land-surface datum, July 27, 1992;
lowest measured, 65.56 ft below land-surface datum, Feb. 25, 1972.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Feb. 15	50.06
July 28	49.52

GROUND-WATER LEVELS

SIERRA COUNTY
Hot Springs Area

325921107185101. (formerly 325550107184001) Local number, 15S.05W.24.312.
 LOCATION.--Lat 32°59'20", long 107°18'40", Hydrologic Unit 13030101. Owner: William M. Dawson.
 AQUIFER.--Valley Fill.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth and casing information not available.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,279 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 1.20 ft above land-surface datum.
 PERIOD OF RECORD.--May 1974 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.97 ft below land-surface datum, July 27, 1992;
 lowest measured, 41.97 ft below land-surface datum, Feb. 29, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Feb. 16	34.05
July 28	37.13

Rincon Valley

325340107183001. (formerly 325350107175501) Local number, 16S.05W.25.211.
 LOCATION.--Lat 32°53'35", long 107°17'55", Hydrologic Unit 13030102. Owner: U.S. Government.
 AQUIFER.--Valley Fill.
 WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 10 in., depth 32 ft, cased to 32 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,198 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 3.00 ft above land-surface datum.
 PERIOD OF RECORD.--Jan. 1961 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.29 ft below land-surface datum, Feb. 12, 1987;
 lowest measured, 25.95 ft below land-surface datum, Jan. 6, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Feb. 16	14.90
July 28	15.31

TAOS COUNTY
Sunshine Valley

365035105360501. (formerly 365036105355301) Local number, 30N.13E.18.1121.
 LOCATION.--Lat 36°50'35", long 105°36'05", Hydrologic Unit 13020101. Owner: U. S. Government.
 AQUIFER.--Valley Fill.
 WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 10 in., depth 500 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 7,597 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 2.00 ft above land-surface datum.
 PERIOD OF RECORD.--Sep. 1973 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.50 ft below land-surface datum, Jan. 16, 1994;
 lowest measured, 77.33 ft below land-surface datum, Aug. 9, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Feb. 16	63.50
Aug. 11	69.54

365644105363501. (formerly 365650105370001) Local number, 01S.74W.24.244.
 LOCATION.--Lat 36°56'44", long 105°36'35", Hydrologic Unit 13020101. Owner: Dimmitt.
 AQUIFER.--Valley Fill.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 270 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 7,620 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing 3.00 ft above land-surface datum.
 REMARKS.--Lost many days of record, due to recorder malfunction.
 PERIOD OF RECORD.--June 1955 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 184.04 ft below land-surface datum, May 27, 1994;
 lowest measured, 213.53 ft below land-surface datum, Aug. 10, 1965.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	185.44	185.11	184.89		---	184.85	184.60	185.02	185.14	185.01	185.13	184.34
10	185.34	184.83	185.16		---	184.95	184.70	185.13	185.11	185.13	185.10	184.75
15	185.16	185.03	184.51		---	184.98	184.90	185.04	185.03	185.14	185.03	184.73
20	185.24	185.08	184.75		---	184.64	185.08	184.92	185.22	185.12	184.89	184.68
25	185.26	184.97	---		184.79	184.68	184.45	184.92	185.09	185.08	184.94	184.64
EOB	185.18	184.88	---		184.71	185.03	185.00	185.10	185.14	185.01	184.80	184.37

WTR YEAR 1994 HIGHEST 184.04 MAY 27, 1994 LOWEST 185.95 AUG 17, 1994

GROUND-WATER LEVELS

TAOS COUNTY
Sunshine Valley

365410105345601. (formerly 365410105354501) Local number, 02S.73W.05.244.

LOCATION.--Lat 36°54'10" long 105°34'56" Hydrologic Unit 13020101 Owner: Unknown
AQUIFER.--Alluvium.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 7,590 ft above National Geodetic Vertical Datum of 1929.

Measuring point: 1 in. hole in plate over casing, 0.10 ft above land-surface datum.

PERIOD OF RECORD.--Feb. 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 65.68 ft below land-surface datum, Aug. 11, 1994;
lowest measured, 84.78 ft below land-surface datum, Jan. 27, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Feb. 16	70.22
Aug. 11	65.68

TORRANCE COUNTY
Estancia Valley

343443106024401. Local number, 04N.09E.07.334.

LOCATION.--Lat 34°34'43", long 106°02'44", Hydrologic Unit 13050001. Owner: Franklin Development.

AQUIFER.--Valley Fill.

WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 16 in., reported depth 163 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,118 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Hole in northwest side of pump base, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--Feb. 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 54.70 ft below land-surface datum, Feb. 10, 1958;
lowest measured, 93.91 ft below land-surface datum, Aug. 11, 1988.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 14	82.09
July 13	pumping

344016106070901. (formerly 344016106064701) Local number, 05N.08E.08.424.

LOCATION.--Lat 34°40'16", long 106°07'09", Hydrologic Unit 13050001. Owner: J. J. Spangler.

AQUIFER.--Valley Fill.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., reported depth 204 ft, cased to 98 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,218 ft above National Geodetic Vertical Datum of 1929.

Measuring point: 3/4 in. inch plug in south side of discharge pipe, 1.80 ft above land-surface datum.

PERIOD OF RECORD.--Mar. 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.03 ft below land-surface datum, Mar. 23, 1948;
lowest measured, 129.74 ft below land-surface datum, Sep. 17, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 13	126.27
July 13	pumping

344234106070601. (formerly 344234106074901) Local number, 06N.08E.32.212.

LOCATION.--Lat 34°42'34", long 106°07'06", Hydrologic Unit 13050001. Owner: Robert McMath.

AQUIFER.--Valley Fill.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 18 in., reported depth 209 ft, cased to 84 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,174 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of 1 1/2 in. hole in pump base, 0.04 ft above land-surface datum.

PERIOD OF RECORD.--Feb. 1947 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.22 ft below land-surface datum, Feb. 18, 1947;
lowest measured, 84.64 ft below land-surface datum, July 27, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 14	78.71
July 13	82.78

GROUND-WATER LEVELS

TORRANCE COUNTY
Estancia Valley

344604105574601. (formerly 344622105575501) Local number, 06N.09E.11.211.
 LOCATION.--Lat 34°46'04", long 105°57'46", Hydrologic Unit 13050001. Owner: Paragon Corp.
 AQUIFER.--Valley Fill.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 18 in., reported depth 148 ft, cased to 140 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 6,086 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 0.75 ft above land-surface datum.
 PERIOD OF RECORD.--May 1949 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.07 ft below land-surface datum, May 4, 1949;
 lowest measured, 28.65 ft below land-surface datum, July 13, 1994.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 14	16.45
July 13	28.65

344842106032701. Local number, 07N.08E.25.121.
 LOCATION.--Lat 34°48'43", long 106°03'22", Hydrologic Unit 13050001. Owner: M. D. Brooks.
 AQUIFER.--Alluvium.
 WELL CHARACTERISTICS.--Drilled water-table unused irrigation well, diameter 16 in., depth 200 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 6,131 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 0.00 ft above land-surface datum.
 REMARKS.--"s" indicates nearby well pumping.
 PERIOD OF RECORD.--Feb. 1962 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.30 ft below land-surface datum, Feb. 7, 1962;
 lowest measured, 65.71 ft below land-surface datum, May 21, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 19	55.29
July 13	64.98 s

345908106024901. (formerly 345900106034301) Local number, 09N.08E.24.332.
 LOCATION.--Lat 34°59'08", long 106°02'49", Hydrologic Unit 13050001. Owner: Unknown.
 AQUIFER.--Valley Fill
 WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 16 in., depth unknown.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 6,205 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Anchor bolt hole, northwest corner, 1.00 ft above land-surface datum.
 PERIOD OF RECORD.--Jan. 1980 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 72.08 ft below land-surface datum, Jan. 30, 1980;
 lowest measured, 91.08 ft below land-surface datum, Aug. 3, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 19	88.58
Aug.	not measured

UNION COUNTY
Clayton Area

355144103041201. (formerly 360940103083501) Local number, 19N.36E.23.244.
 LOCATION.--Lat 35°51'44", long 103°04'12", Hydrologic Unit 11090102. Owner: Stevens.
 AQUIFER.--Dakota and Purgatoire formation.
 WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 14 in., depth 206 ft.
 INSTRUMENTATION.--Periodic steel-tape measurements.
 DATUM.--Elevation of land-surface datum is 4,326 ft above National Geodetic Vertical Datum of 1929.
 Measuring point: Top of casing, 1.00 ft above land-surface datum.
 REMARKS.--"s" indicates nearby well pumping during measurement.
 PERIOD OF RECORD.--Nov. 1967 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 145.22 ft below land-surface datum, Mar. 17, 1971;
 lowest measured, 158.58s ft below land-surface datum, Aug. 19, 1987.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 20	150.00
July 22	150.22

GROUND-WATER LEVELS

UNION COUNTY
Clayton Area

361847103064701. (formerly 361910103170501) Local number, 24N.36E.17.244.

LOCATION.--Lat 36°18'47", long 102°06'47", Hydrologic Unit 11090103. Owner: Bill Winchester.

AQUIFER.--Ogallala formation.

INSTRUMENTATION.--Continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 4,707 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, 1.95 ft above land-surface datum.

PERIOD OF RECORD.--Lost several months of record due to recorder malfunction.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 81.38 ft below land-surface datum, May 8, 1968;
lowest measured, 97.63 ft below land-surface datum, Oct. 12, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	97.44						---	97.02	97.18	97.27	97.32	97.48
10	97.54						---	97.07	97.18	97.27	97.32	97.45
15	97.43						---	97.09	97.21	97.29	97.38	97.48
20	97.55						---	97.10	97.24	97.32	97.37	97.51
25	97.59						---	97.15	97.21	97.33	97.42	97.51
EOM	97.51						97.06	97.18	97.24	97.34	97.47	97.50

WTR YR 1994 HIGHEST 96.99 MAY 1, 1994

LOWEST 97.63 OCT 13, 1993

362540103095001. Local number, 25N.35E.02.441.

LOCATION.--Lat 36°25'40", long 103°10'02", Hydrologic Unit 11090103. Owner: Bill Winchester.

AQUIFER.--Ogalalla formation.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter unknown, depth 185 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,984 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Plugged hole in pump base, 1.70 ft above land-surface datum.

PERIOD OF RECORD.--Dec. 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 91.14 ft below land-surface datum, Jan. 9, 1989;

lowest measured, 106.85 ft below land-surface datum, Feb. 2, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 20	95.50
July 23	95.67

363410103064801. Local number, 27N.36E.17.434.

LOCATION.--Lat 36°34'10", long 103°06'48", Hydrologic Unit 11100101. Owner: Paul Carter.

AQUIFER.--Ogalalla formation.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 200 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 4,837 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, north side, 1.20 ft above land-surface datum.

PERIOD OF RECORD.--Feb. 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 81.16 ft below land-surface datum, Jan. 21, 1975;

lowest measured, 97.44 ft below land-surface datum, Jan. 26, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 20	92.16
July 23	92.70

Capulin Area

364444104000201. (formerly 364430103595501) Local number, 29N.28E.18.341.

LOCATION.--Lat 36°44'44", long 104°00'02", Hydrologic Unit 11040001. Owner: City of Raton.

AQUIFER.--Cinders.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 78 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 6,820.8 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Edge of 2 in. hole in west side of steel plate, at land-surface datum.

REMARKS.--"p" indicates well pumping during measurement.

PERIOD OF RECORD.--July 1951, Aug. 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.01 ft below land-surface datum, Feb. 8, 1974;

lowest measured, 53.38p ft below land-surface datum, Aug. 7, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	WATER LEVEL
Jan. 19	33.74
July 20	27.76

QUALITY OF GROUND WATER

EXPLANATION OF GEOLOGIC UNIT (AQUIFER) CODES (LISTED FROM YOUNGEST TO OLDEST AGE) U-UPPER, M-MIDDLE, L-LOWER:
 110 ALVM-Cenozoic, Quaternary, Alluvium; 110 AVMB-Cenozoic, Quaternary, Alluvium, Bolson Deposits and other
 Surface Deposits; 112 SNTF-Cenozoic, Quaternary, Pleistocene, Santa Fe Group.

REMARKS.--Ground Water sites in this table are segregated by county which appear alphabetically. The sites are then listed in ascending well numbers that are explained at the beginning of this report.

BERNALILLO COUNTY

LOCAL IDENT- IFIER	STATION	NUMBER	COUNTY	SITE	DATE	TIME	GEO- LOGIC UNIT	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH TO TOP OF WATER- BEARING ZONE (FT) (72002)	DEPTH OF WELL TOTAL (FEET) (72008)
09N.02E.12.214A	350137106410501	001		GW	10-20-93	1300	--	--	--	148.50
09N.02E.12.214B	350137106410502	001		GW	10-19-93	1500	112SNTF	--	--	103.80
09N.02E.12.214C	350137106410503	001		GW	10-19-93	1120	112SNTF	--	--	38.40
09N.03E.07.114	350138106401101	001		GW	11-10-93	1230	110AVMB	--	--	150.00
09N.03E.07.114A	350138106401102	001		GW	11-10-93	1345	110AVMB	--	--	22.00
09N.03E.07.114B	350138106401103	001		GW	11-10-93	1110	110AVMB	--	--	515.00
09N.03E.07.131A	350138106395501	001		GW	10-21-93	1530	112SNTF	--	--	153.53
09N.03E.07.131B	350138106395502	001		GW	10-21-93	1215	112SNTF	--	--	91.16
09N.03E.07.131C	350138106395503	001		GW	10-21-93	0945	112SNTF	--	--	48.60
09N.03E.07.241A	350138106393201	001		GW	11-08-93	1015	112SNTF	--	--	148.00
09N.03E.07.241B	350138106393202	001		GW	11-08-93	1425	112SNTF	--	--	101.00
09N.03E.07.241C	350138106393203	001		GW	11-08-93	1305	112SNTF	--	--	49.33
09N.03E.08.144A	350135106390601	001		GW	11-09-93	0948	112SNTF	--	--	149.40
09N.03E.08.144B	350135106390602	001		GW	11-09-93	1018	112SNTF	--	--	124.23
09N.03E.08.144C	350135106390603	001		GW	11-09-93	1042	112SNTF	--	--	49.33
11N.02E.25.341A	350854106403701	001		GW	11-18-93	1400	112SNTF	10.31	--	152.00
11N.02E.25.341B	350854106403702	001		GW	11-18-93	1235	112SNTF	10.31	--	93.40
11N.02E.25.341C	350854106403703	001		GW	11-18-93	1130	112SNTF	8.11	--	48.41
11N.03E.17.141	351059106385901	001		GW	01-05-94	1130	110AVMB	--	--	150.00
11N.03E.17.141A	351059106385902	001		GW	01-04-94	1240	110AVMB	--	--	25.00
11N.03E.17.141B	351059106385903	001		GW	01-05-94	1420	110AVMB	--	--	600.00
11N.03E.17.233	351057106384201	001		GW	01-07-94	1230	110AVMB	21.42	--	150.00
11N.03E.17.233A	351057106384202	001		GW	01-04-94	1130	110AVMB	--	--	95.00
11N.03E.17.233B	351057106384203	001		GW	01-04-94	0950	110AVMB	--	--	45.00
11N.03E.30.313	350859106401601	001		GW	01-03-94	1045	110AVMB	--	--	25.00
11N.03E.30.313A	350859106401602	001		GW	01-03-94	1300	110AVMB	--	--	75.00
11N.03E.30.313B	350859106401603	001		GW	01-03-94	1413	110AVMB	--	--	150.00
11N.03E.32.234A	350821106383701	001		GW	11-29-93	1356	112SNTF	42.48	--	131.50
11N.03E.32.234B	350821106383702	001		GW	01-18-94	1315	112SNTF	40.10	--	93.50
11N.03E.32.234C	350821106383703	001		GW	01-10-94	1325	110ALVM	40.39	--	50.20
ELENA GALLEGOS LAND GRANT	350827106391301	001		GW	11-30-93	1405	112SNTF	28.98	--	149.80
	350827106391302	001		GW	11-30-93	1245	112SNTF	28.70	--	99.00
	350827106391303	001		GW	11-30-93	1105	112SNTF	26.86	--	49.80
	350836106395601	001		GW	11-23-93	1430	112SNTF	16.90	--	147.40
ELENA GALLEGOS LAND GRANT	350836106395602	001		GW	11-23-93	1234	112SNTF	14.60	15	99.00
ELENA GALLEGOS LAND GRANT	350836106395603	001		GW	11-23-93	1210	112SNTF	12.70	--	39.70

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

BERNALILLO COUNTY -- Continued

LOCAL IDENT- IFIER	DATE	EL-EV SURFACE DATUM (FT. ABOVE NGVD) (72000)	PUMP PERIOD PRIOR TO SAM- PLING (MIN) (72004)	FLOW RATE, INSTAN- TANEOUS (G/M) (00059)	CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	PR-S- SURE (MM OF HG) (00025)	NESS TOTAL (MG/L AS CACO3) (00900)	NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
09N.02E.12.214A	10-20-93	4931	2	1.7	620	8.5	18.0	--	33	0
09N.02E.12.214B	10-19-93	4931	--	1.7	690	8.3	19.0	--	37	0
09N.02E.12.214C	10-19-93	4931	--	1.7	455	7.9	17.0	--	180	23
09N.03E.07.114	11-10-93	4930	--	--	445	8.4	15.5	641	56	0
09N.03E.07.114A	11-10-93	4930	--	--	370	8.1	18.5	641	140	17
09N.03E.07.114B	11-10-93	4930	--	--	625	9.0	21.5	643	20	0
09N.03E.07.131A	10-21-93	4929	--	1.5	440	7.9	18.0	--	56	0
09N.03E.07.131B	10-21-93	4929	--	1.7	560	8.0	18.0	--	160	29
09N.03E.07.131C	10-21-93	4929	--	1.7	650	7.9	16.0	--	230	18
09N.03E.07.241A	11-08-93	4927	--	--	400	7.9	18.5	--	99	36
09N.03E.07.241B	11-08-93	4927	--	--	370	8.2	18.5	638	100	0
09N.03E.07.241C	11-08-93	4927	--	--	E640	8.2	18.0	--	180	0
09N.03E.08.144A	11-09-93	4933	--	--	350	7.2	19.5	643	120	5
09N.03E.08.144B	11-09-93	4933	--	--	940	7.7	18.5	643	360	260
09N.03E.08.144C	11-09-93	4933	--	--	E460	7.7	17.5	643	170	22
11N.02E.25.341A	11-18-93	4976	110	--	615	8.0	16.0	640	240	110
11N.02E.25.341B	11-18-93	4976	21	10	545	8.0	14.5	640	190	72
11N.02E.25.341C	11-18-93	4975	26	--	650	8.0	14.5	640	230	41
11N.03E.17.141	01-05-94	4990	37	10	430	8.0	12.5	631	170	48
11N.03E.17.141A	01-04-94	4991	--	--	386	8.0	8.5	--	150	21
11N.03E.17.141B	01-05-94	4991	113	10	323	8.0	15.5	--	120	1
11N.03E.17.233	01-07-94	4989	--	--	350	8.1	14.5	--	130	23
11N.03E.17.233A	01-04-94	4989	85	--	470	8.0	14.0	--	190	53
11N.03E.17.233B	01-04-94	4989	--	--	516	7.7	14.5	641	180	1
11N.03E.30.313	01-03-94	4977	--	--	382	7.9	7.0	--	140	13
11N.03E.30.313A	01-03-94	4977	--	--	398	8.0	11.5	--	140	10
11N.03E.30.313B	01-03-94	4977	--	--	447	8.0	13.0	--	150	12
11N.03E.32.234A	11-29-93	4975	53	10	355	8.1	16.5	637	120	14
11N.03E.32.234B	01-18-94	4974	15	10	950	7.6	17.0	--	370	29
11N.03E.32.234C	01-10-94	4975	--	--	1620	7.3	17.5	--	690	300
ELENA GALLEGOS LAN	11-30-93	4972	47	10	790	7.6	15.5	--	340	32
	11-30-93	4972	45	10	845	7.6	15.5	637	260	0
	11-30-93	4972	12	10	855	7.4	15.5	637	370	65
	11-23-93	4970	62	10	520	8.0	16.0	--	180	37
ELENA GALLEGOS LAN	11-23-93	4970	27	10	650	8.0	16.0	--	220	43
ELENA GALLEGOS LAN	11-23-93	4970	11	12	705	7.7	17.0	--	270	21

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
BERNALILLO COUNTY -- Continued

LOCAL IDENT- I- FIER	DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
09N.02E.12.214A	10-20-93	11	1.3	140	11	3.1	112	4	98
09N.02E.12.214B	10-19-93	12	1.8	120	9	3.6	114	2	98
09N.02E.12.214C	10-19-93	59	7.5	25	0.8	6.6	189	0	155
09N.03E.07.114	11-10-93	16	3.8	74	4	6.0	154	6	136
09N.03E.07.114A	11-10-93	45	7.0	19	0.7	3.5	151	0	124
09N.03E.07.114B	11-10-93	7.5	0.35	120	12	1.7	70	7	69
09N.03E.07.131A	10-21-93	17	3.4	28	2	8.0	95	0	78
09N.03E.07.131B	10-21-93	46	11	49	2	10	160	0	131
09N.03E.07.131C	10-21-93	68	14	52	2	9.1	255	0	209
09N.03E.07.241A	11-08-93	35	2.9	21	0.9	12	77	0	63
09N.03E.07.241B	11-08-93	30	6.4	28	1	8.8	142	0	116
09N.03E.07.241C	11-08-93	51	13	60	2	11	225	0	184
09N.03E.08.144A	11-09-93	36	7.0	17	0.7	6.9	139	0	114
09N.03E.08.144B	11-09-93	110	21	28	0.6	10	127	0	104
09N.03E.08.144C	11-09-93	56	6.8	31	1	17	178	0	146
11N.02E.25.341A	11-18-93	75	13	26	0.7	7.4	161	0	132
11N.02E.25.341B	11-18-93	58	11	28	0.9	8.2	144	0	118
11N.02E.25.341C	11-18-93	71	12	32	0.9	9.0	227	0	186
11N.03E.17.141	01-05-94	55	9.1	18	0.6	4.7	155	0	127
11N.03E.17.141A	01-04-94	46	7.3	22	0.8	2.9	151	0	124
11N.03E.17.141B	01-05-94	37	6.9	16	0.6	6.4	146	0	120
11N.03E.17.233	01-07-94	40	6.5	19	0.7	3.8	127	0	104
11N.03E.17.233A	01-04-94	62	8.0	21	0.7	3.2	164	0	134
11N.03E.17.233B	01-04-94	60	7.6	37	1	4.2	220	0	180
11N.03E.30.313	01-03-94	42	7.3	22	0.8	2.5	149	0	122
11N.03E.30.313A	01-03-94	45	6.3	26	1	3.8	156	0	128
11N.03E.30.313B	01-03-94	44	9.8	29	1	7.5	168	0	138
11N.03E.32.234A	11-29-93	34	7.8	18	0.7	7.7	126	0	103
11N.03E.32.234B	01-18-94	110	23	57	1	10	415	0	340
11N.03E.32.234C	01-10-94	210	41	92	2	11	478	0	392
ELENA GALLEGOS LAN	11-30-93	90	27	31	0.7	12	371	0	304
	11-30-93	70	20	80	2	11	400	0	328
	11-30-93	120	18	40	0.9	6.9	376	0	308
	11-23-93	51	13	21	0.7	8.7	176	0	144
ELENA GALLEGOS LAN	11-23-93	62	16	27	0.8	11	217	0	178
ELENA GALLEGOS LAN	11-23-93	85	13	41	1	6.8	298	0	244

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
BERNALILLO COUNTY -- Continued

LOCAL IDENT- I- FIER	DATE	LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- NITRATE DIS- SOLVED (MG/L AS N) (00618)
09N.02E.12.214A	10-20-93	94	180	28	1.5	32	450	461	--
09N.02E.12.214B	10-19-93	97	150	22	1.5	37	331	410	--
09N.02E.12.214C	10-19-93	150	62	8.9	0.40	29	296	292	--
09N.03E.07.114	11-10-93	142	69	10	0.80	71	327	332	--
09N.03E.07.114A	11-10-93	128	66	11	0.70	69	318	296	--
09N.03E.07.114B	11-10-93	71	140	51	1.8	20	381	384	--
09N.03E.07.131A	10-21-93	93	45	13	0.60	49	235	213	0.220
09N.03E.07.131B	10-21-93	123	100	35	0.40	81	423	413	--
09N.03E.07.131C	10-21-93	199	100	18	0.70	60	448	447	--
09N.03E.07.241A	11-08-93	66	70	17	0.10	17	224	217	--
09N.03E.07.241B	11-08-93	111	34	27	0.50	82	280	288	--
09N.03E.07.241C	11-08-93	192	110	19	0.70	66	446	443	--
09N.03E.08.144A	11-09-93	114	31	21	0.50	66	264	255	--
09N.03E.08.144B	11-09-93	105	160	120	0.30	65	654	600	--
09N.03E.08.144C	11-09-93	148	66	16	0.20	12	330	319	--
11N.02E.25.341A	11-18-93	136	130	33	0.20	61	420	425	--
11N.02E.25.341B	11-18-93	134	110	28	0.40	57	386	372	--
11N.02E.25.341C	11-18-93	168	120	20	0.30	40	406	417	--
11N.03E.17.141	01-05-94	--	73	12	0.20	38	284	286	--
11N.03E.17.141A	01-04-94	123	58	8.2	0.30	17	240	237	--
11N.03E.17.141B	01-05-94	122	33	7.2	0.30	65	240	244	--
11N.03E.17.233	01-07-94	104	53	12	0.30	36	237	235	--
11N.03E.17.233A	01-04-94	130	81	12	0.20	29	300	297	--
11N.03E.17.233B	01-04-94	176	76	14	0.60	34	339	342	--
11N.03E.30.313	01-03-94	123	56	8.1	0.30	16	229	228	--
11N.03E.30.313A	01-03-94	130	58	8.7	0.40	23	252	248	--
11N.03E.30.313B	01-03-94	149	69	12	0.40	60	312	314	--
11N.03E.32.234A	11-29-93	105	50	14	0.30	60	261	254	--
11N.03E.32.234B	01-18-94	298	180	13	0.20	46	653	644	0.036
11N.03E.32.234C	01-10-94	387	540	25	0.30	47	1280	1200	--
ELENA GALLEGOS LAN	11-30-93	300	120	13	0.10	64	553	540	--
	11-30-93	331	130	9.3	0.20	66	581	583	--
	11-30-93	301	75	11	0.30	42	596	498	--
	11-23-93	145	70	19	0.30	65	342	335	--
ELENA GALLEGOS LAN	11-23-93	177	100	21	0.20	59	421	404	0.040
ELENA GALLEGOS LAN	11-23-93	250	110	17	0.50	38	470	458	--

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

BERNALILLO COUNTY -- Continued

LOCAL IDENT- IFIER	DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)
09N.02E.12.214A	10-20-93	<0.010	1.10	1.10	0.030	0.020	9.7	32	31
09N.02E.12.214B	10-19-93	<0.010	0.910	0.910	0.030	0.020	4.5	39	18
09N.02E.12.214C	10-19-93	<0.010	--	<0.050	0.120	0.100	3.2	7	100
09N.03E.07.114	11-10-93	<0.010	--	<0.050	<0.010	<0.010	1.4	22	37
09N.03E.07.114A	11-10-93	<0.010	--	<0.050	0.040	0.060	2.4	4	72
09N.03E.07.114B	11-10-93	<0.010	--	<0.050	<0.010	0.030	--	25	22
09N.03E.07.131A	10-21-93	0.010	0.230	0.230	0.200	0.170	5.4	10	40
09N.03E.07.131B	10-21-93	<0.010	0.330	0.330	0.030	0.010	1.4	14	82
09N.03E.07.131C	10-21-93	<0.010	--	<0.050	0.040	0.010	2.6	9	38
09N.03E.07.241A	11-08-93	<0.010	0.490	0.490	0.050	0.530	6.0	8	53
09N.03E.07.241B	11-08-93	<0.010	0.260	0.260	0.330	0.030	1.5	15	69
09N.03E.07.241C	11-08-93	<0.010	0.360	0.360	0.030	0.030	3.9	9	52
09N.03E.08.144A	11-09-93	<0.010	0.140	0.140	0.580	0.050	4.2	6	85
09N.03E.08.144B	11-09-93	<0.010	5.30	5.30	0.020	0.020	2.4	4	92
09N.03E.08.144C	11-09-93	<0.010	5.30	5.30	0.090	0.910	9.4	10	53
11N.02E.25.341A	11-18-93	<0.010	--	<0.050	0.050	0.020	1.9	4	78
11N.02E.25.341B	11-18-93	<0.010	0.170	0.170	0.020	0.020	1.7	4	68
11N.02E.25.341C	11-18-93	0.010	--	<0.050	0.710	0.090	8.7	4	260
11N.03E.17.141	01-05-94	<0.010	--	<0.050	0.010	0.010	1.2	2	81
11N.03E.17.141A	01-04-94	<0.010	0.100	0.100	0.030	0.030	2.0	3	98
11N.03E.17.141B	01-05-94	<0.010	--	<0.050	0.010	<0.010	1.0	4	51
11N.03E.17.233	01-07-94	<0.010	--	<0.050	0.030	0.490	1.4	3	76
11N.03E.17.233A	01-04-94	<0.010	--	<0.050	0.050	0.030	2.2	3	67
11N.03E.17.233B	01-04-94	<0.010	--	<0.050	0.100	0.030	2.6	6	66
11N.03E.30.313	01-03-94	<0.010	0.130	0.130	0.010	0.030	1.7	2	64
11N.03E.30.313A	01-03-94	<0.010	--	<0.050	0.030	0.020	1.9	4	86
11N.03E.30.313B	01-03-94	<0.010	--	<0.050	0.020	<0.010	1.3	4	70
11N.03E.32.234A	11-29-93	<0.010	--	<0.050	0.020	0.010	22	5	110
11N.03E.32.234B	01-18-94	0.050	0.086	0.086	0.390	0.070	7.0	2	64
11N.03E.32.234C	01-10-94	<0.010	--	<0.050	0.120	<0.010	2.9	5	48
ELENA GALLEGOS LAN	11-30-93	<0.010	--	<0.050	0.110	0.020	4.4	4	160
	11-30-93	<0.010	--	<0.050	0.080	0.020	3.5	4	62
	11-30-93	<0.010	--	<0.050	0.190	0.020	5.9	3	46
	11-23-93	<0.010	0.094	0.094	0.030	0.040	1.8	5	74
ELENA GALLEGOS LAN	11-23-93	0.030	0.070	0.070	0.090	<0.010	1.9	3	130
ELENA GALLEGOS LAN	11-23-93	<0.010	0.082	0.082	0.110	0.020	2.3	4	62

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
BERNALILLO COUNTY -- Continued

IDENT- IFIER	DATE	DIS- SOLVED (UG/L AS CD) (01025)	DIS- SOLVED (UG/L AS CR) (01030)	DIS- SOLVED (UG/L AS CU) (01040)	DIS- SOLVED (UG/L AS FB) (01049)	DIS- SOLVED (UG/L AS HG) (71890)	DIS- SOLVED (UG/L AS SE) (01145)	DIS- SOLVED (UG/L AS AG) (01075)	DIS- SOLVED (UG/L AS ZN) (01090)
09N.02E.12.214A	10-20-93	<1.0	10	3	<1	<0.1	2	<1.0	27
09N.02E.12.214B	10-19-93	<1.0	9	3	<1	<0.1	1	<1.0	11
09N.02E.12.214C	10-19-93	<1.0	<1	<1	<1	<0.1	<1	<1.0	3
09N.03E.07.114	11-10-93	<1.0	<1	<1	<1	<0.1	<1	<1.0	10
09N.03E.07.114A	11-10-93	<1.0	<1	<1	<1	<0.1	<1	<1.0	11
09N.03E.07.114B	11-10-93	<1.0	<1	<1	<1	<0.1	<1	<1.0	18
09N.03E.07.131A	10-21-93	<1.0	<1	11	10	<0.1	<1	<1.0	45
09N.03E.07.131B	10-21-93	<1.0	<1	4	1	<0.1	<1	<1.0	22
09N.03E.07.131C	10-21-93	<1.0	<1	4	<1	<0.1	<1	<1.0	23
09N.03E.07.241A	11-08-93	1.0	<1	16	2	<0.1	<1	<1.0	62
09N.03E.07.241B	11-08-93	<1.0	<1	<1	<1	<0.1	<1	<1.0	3
09N.03E.07.241C	11-08-93	<1.0	<1	3	<1	<0.1	<1	<1.0	37
09N.03E.08.144A	11-09-93	<1.0	<1	<1	<1	<0.1	<1	<1.0	16
09N.03E.08.144B	11-09-93	<1.0	<1	<1	<1	<0.1	<1	<1.0	34
09N.03E.08.144C	11-09-93	<1.0	<1	6	<1	<0.1	<1	<1.0	33
11N.02E.25.341A	11-18-93	<1.0	<1	<1	<1	<0.1	<1	<1.0	9
11N.02E.25.341B	11-18-93	<1.0	<1	<1	<1	<0.1	<1	<1.0	6
11N.02E.25.341C	11-18-93	<1.0	<1	<1	<1	<0.1	<1	<1.0	5
11N.03E.17.141	01-05-94	<1.0	<1	<1	<1	<0.1	<1	<1.0	<3
11N.03E.17.141A	01-04-94	<1.0	<1	4	<1	<0.1	<1	<1.0	5
11N.03E.17.141B	01-05-94	<1.0	<1	<1	<1	<0.1	<1	<1.0	17
11N.03E.17.233	01-07-94	<1.0	<1	<1	<1	<0.1	<1	<1.0	<3
11N.03E.17.233A	01-04-94	<1.0	<1	<1	<1	<0.1	<1	<1.0	9
11N.03E.17.233B	01-04-94	<1.0	<1	<1	<1	<0.1	<1	<1.0	4
11N.03E.30.313	01-03-94	<1.0	<1	1	<1	<0.1	<1	<1.0	<3
11N.03E.30.313A	01-03-94	<1.0	<1	<1	<1	<0.1	<1	<1.0	<3
11N.03E.30.313B	01-03-94	<1.0	<1	<1	<1	<0.1	<1	<1.0	5
11N.03E.32.234A	11-29-93	<1.0	<1	2	<1	<0.1	<1	<1.0	47
11N.03E.32.234B	01-18-94	<1.0	<1	1	<1	<0.1	<1	<1.0	<3
11N.03E.32.234C	01-10-94	<1.0	<1	<1	<1	<0.1	<1	<1.0	180
ELENA GALLEGOS LAN	11-30-93	<1.0	<1	<1	<1	<0.1	<1	<1.0	28
	11-30-93	<1.0	<1	<1	<1	<0.1	<1	<1.0	36
	11-30-93	<1.0	<1	<1	<1	<0.1	<1	<1.0	9
	11-23-93	<1.0	<1	1	1	<0.1	<1	<1.0	95
ELENA GALLEGOS LAN	11-23-93	<1.0	<1	1	<1	<0.1	<1	<1.0	51
ELENA GALLEGOS LAN	11-23-93	<1.0	<1	<1	<1	<0.1	<1	<1.0	23

LOCAL IDENT- I- FIER	DATE	TIME	DI- BROMO- METHANE WATER WHOLE RECOVER (UG/L) (30217)	DI- CHLORO- BROMO- METHANE TOTAL (UG/L) (32101)	CARBON- TETRA- CHLO- RIDE TOTAL (UG/L) (32102)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	BROMO- FORM TOTAL (UG/L) (32104)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- FORM TOTAL (UG/L) (32106)
09N.02E.12.214A	10-20-93	1300	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.02E.12.214B	10-19-93	1500	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.02E.12.214C	10-19-93	1120	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.07.114	11-10-93	1230	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.07.114A	11-10-93	1345	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.07.114B	11-10-93	1110	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.07.131A	10-21-93	1530	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.07.131B	10-21-93	1215	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.07.131C	10-21-93	0945	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.07.241A	11-08-93	1015	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.07.241B	11-08-93	1425	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.07.241C	11-08-93	1305	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.08.144A	11-09-93	0948	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.08.144B	11-09-93	1018	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.08.144C	11-09-93	1042	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.02E.25.341A	11-18-93	1400	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.02E.25.341B	11-18-93	1235	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.02E.25.341C	11-18-93	1130	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.17.141	01-05-94	1130	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.17.141A	01-04-94	1240	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.17.141B	01-05-94	1420	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.17.233	01-07-94	1230	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.17.233A	01-04-94	1130	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.17.233B	01-04-94	0950	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.30.313	01-03-94	1045	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.30.313A	01-03-94	1300	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.30.313B	01-03-94	1413	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.32.234A	11-29-93	1356	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.32.234B	01-18-94	1315	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.32.234C	01-10-94	1325	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
ELENA GALLEGOS LAND GRANT,	11-30-93	1405	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	11-30-93	1245	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	11-30-93	1105	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	11-23-93	1430	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
ELENA GALLEGOS LAND GRNT	11-23-93	1234	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
ELENA GALLEGOS LAND GRNT,	11-23-93	1210	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

QUALITY OF GROUND WATER
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
 BERNALILLO COUNTY -- Continued
 ORGANIC COMPOUND DATA

LOCAL IDENT- IFIER	DATE	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)	ACRO- LEIN TOTAL (UG/L) (34210)	ACRYLO- NITRILE TOTAL (UG/L) (34215)	CHLORO- BENZENE TOTAL (UG/L) (34301)	CHLORO- ETHANE TOTAL (UG/L) (34311)	ETHYL- BENZENE TOTAL (UG/L) (34371)	METHYL- BROMIDE TOTAL (UG/L) (34413)
09N.02E.12.214A	10-20-93	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
09N.02E.12.214B	10-19-93	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
09N.02E.12.214C	10-19-93	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
09N.03E.07.114	11-10-93	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
09N.03E.07.114A	11-10-93	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
09N.03E.07.114B	11-10-93	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
09N.03E.07.131A	10-21-93	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
09N.03E.07.131B	10-21-93	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
09N.03E.07.131C	10-21-93	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
09N.03E.07.241A	11-08-93	4.7	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
09N.03E.07.241B	11-08-93	2.1	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
09N.03E.07.241C	11-08-93	1.7	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
09N.03E.08.144A	11-09-93	0.7	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
09N.03E.08.144B	11-09-93	1.4	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
09N.03E.08.144C	11-09-93	1.9	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
11N.02E.25.341A	11-18-93	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
11N.02E.25.341B	11-18-93	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
11N.02E.25.341C	11-18-93	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
11N.03E.17.141	01-05-94	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
11N.03E.17.141A	01-04-94	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
11N.03E.17.141B	01-05-94	0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
11N.03E.17.233	01-07-94	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
11N.03E.17.233A	01-04-94	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
11N.03E.17.233B	01-04-94	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
11N.03E.30.313	01-03-94	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
11N.03E.30.313A	01-03-94	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
11N.03E.30.313B	01-03-94	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
11N.03E.32.234A	11-29-93	1.3	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
11N.03E.32.234B	01-18-94	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
11N.03E.32.234C	01-10-94	0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
ELENA GALLEGOS LAN	11-30-93	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
	11-30-93	0.8	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
	11-30-93	0.8	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
	11-23-93	<0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
ELENA GALLEGOS LAN	11-23-93	0.5	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2
ELENA GALLEGOS LAN	11-23-93	0.2	<0.2	<20	<20	<0.20	<0.2	<0.2	<0.2

BERNALILLO COUNTY -- Continued

ORGANIC COMPOUND DATA

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QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

BERNALILLO COUNTY -- Continued

ORGANIC COMPOUND DATA

LOCAL IDENT- IFIER	DATE	1,1,2,2 TETRA- CHLORO- WAT UNF REC (UG/L) (34516)	O- CHLORO- WATER UNFLTRD REC (UG/L) (34536)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	1,2- TRANS DI CHLORO- ETHENE TOTAL (UG/L) (34546)	1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)	1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)	CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L) (34576)
09N.02E.12.214A	10-20-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
09N.02E.12.214B	10-19-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
09N.02E.12.214C	10-19-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
09N.03E.07.114	11-10-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
09N.03E.07.114A	11-10-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
09N.03E.07.114B	11-10-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
09N.03E.07.131A	10-21-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
09N.03E.07.131B	10-21-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
09N.03E.07.131C	10-21-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
09N.03E.07.241A	11-08-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
09N.03E.07.241B	11-08-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
09N.03E.07.241C	11-08-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
09N.03E.08.144A	11-09-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
09N.03E.08.144B	11-09-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
09N.03E.08.144C	11-09-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
11N.02E.25.341A	11-18-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
11N.02E.25.341B	11-18-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
11N.02E.25.341C	11-18-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
11N.03E.17.141	01-05-94	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
11N.03E.17.141A	01-04-94	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
11N.03E.17.141B	01-05-94	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
11N.03E.17.233	01-07-94	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
11N.03E.17.233A	01-04-94	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
11N.03E.17.233B	01-04-94	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
11N.03E.30.313	01-03-94	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
11N.03E.30.313A	01-03-94	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
11N.03E.30.313B	01-03-94	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
11N.03E.32.234A	11-29-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
11N.03E.32.234B	01-18-94	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
11N.03E.32.234C	01-10-94	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
ELENA GALLEGOS LAN	11-30-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
	11-30-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
	11-30-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
	11-23-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
ELENA GALLEGOS LAN	11-23-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0
ELENA GALLEGOS LAN	11-23-93	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<1.0

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

BERNALILLO COUNTY -- Continued

ORGANIC COMPOUND DATA

LOCAL IDENT- I- FIER	DATE	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)	NAPHTH- ALENE TOTAL (UG/L) (34696)	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34699)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34704)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L) (39702)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L) (77093)
09N.02E.12.214A	10-20-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.02E.12.214B	10-19-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.02E.12.214C	10-19-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.07.114	11-10-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.07.114A	11-10-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.07.114B	11-10-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.07.131A	10-21-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.07.131B	10-21-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.07.131C	10-21-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.07.241A	11-08-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.07.241B	11-08-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.07.241C	11-08-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.08.144A	11-09-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.08.144B	11-09-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09N.03E.08.144C	11-09-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.02E.25.341A	11-18-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.02E.25.341B	11-18-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.02E.25.341C	11-18-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.17.141	01-05-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.17.141A	01-04-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.17.141B	01-05-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.17.233	01-07-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.17.233A	01-04-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.17.233B	01-04-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.30.313	01-03-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.30.313A	01-03-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.30.313B	01-03-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.32.234A	11-29-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.32.234B	01-18-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11N.03E.32.234C	01-10-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
ELENA GALLEGOS LAN	11-30-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	11-30-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	11-30-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	11-23-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
ELENA GALLEGOS LAN	11-23-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
ELENA GALLEGOS LAN	11-23-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
BERNALILLO COUNTY -- Continued
ORGANIC COMPOUND DATA

LOCAL IDENT- IFIER	DATE	STYRENE TOTAL (UG/L) (77128)	1,1-D1 CHLORO- PRO- PENE, WAT. WH TOTAL (UG/L) (77168)	2,2-D1 CHLORO- PRO- PANE WAT. WH TOTAL (UG/L) (77170)	1,3-DI- CHLORO- PROPANE WAT. WH TOTAL (UG/L) (77173)	PSEUDO- CUMENE WATER UNFLTRD REC (UG/L) (77222)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	MESIT- YLENE WATER UNFLTRD REC (UG/L) (77226)
09N.02E.12.214A	10-20-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
09N.02E.12.214B	10-19-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
09N.02E.12.214C	10-19-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
09N.03E.07.114	11-10-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
09N.03E.07.114A	11-10-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
09N.03E.07.114B	11-10-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
09N.03E.07.131A	10-21-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
09N.03E.07.131B	10-21-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
09N.03E.07.131C	10-21-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
09N.03E.07.241A	11-08-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
09N.03E.07.241B	11-08-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
09N.03E.07.241C	11-08-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
09N.03E.08.144A	11-09-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
09N.03E.08.144B	11-09-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
09N.03E.08.144C	11-09-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
11N.02E.25.341A	11-18-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
11N.02E.25.341B	11-18-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
11N.02E.25.341C	11-18-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
11N.03E.17.141	01-05-94	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
11N.03E.17.141A	01-04-94	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
11N.03E.17.141B	01-05-94	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
11N.03E.17.233	01-07-94	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
11N.03E.17.233A	01-04-94	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
11N.03E.17.233B	01-04-94	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
11N.03E.30.313	01-03-94	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
11N.03E.30.313A	01-03-94	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
11N.03E.30.313B	01-03-94	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
11N.03E.32.234A	11-29-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
11N.03E.32.234B	01-18-94	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
11N.03E.32.234C	01-10-94	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
ELENA GALLEGOS LAN	11-30-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
	11-30-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
	11-30-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
	11-23-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
ELENA GALLEGOS LAN	11-23-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20
ELENA GALLEGOS LAN	11-23-93	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20

BERNALILLO COUNTY -- Continued

ORGANIC COMPOUND DATA

LOCAL IDENT- I- FIER	DATE	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	METHANE BROMO CHLORO- WAT UNFLTRD REC (UG/L) (77297)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE SEC BUTYL- WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT- BUTYL- WATER UNFLTRD REC (UG/L) (77353)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356)	123-TRI CHLORO- PROPANE WATER WHOLE TOTAL (UG/L) (77443)
09N.02E.12.214A	10-20-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
09N.02E.12.214B	10-19-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
09N.02E.12.214C	10-19-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
09N.03E.07.114	11-10-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
09N.03E.07.114A	11-10-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
09N.03E.07.114B	11-10-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
09N.03E.07.131A	10-21-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
09N.03E.07.131B	10-21-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
09N.03E.07.131C	10-21-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
09N.03E.07.241A	11-08-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
09N.03E.07.241B	11-08-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
09N.03E.07.241C	11-08-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
09N.03E.08.144A	11-09-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
09N.03E.08.144B	11-09-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
09N.03E.08.144C	11-09-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
11N.02E.25.341A	11-18-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
11N.02E.25.341B	11-18-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
11N.02E.25.341C	11-18-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
11N.03E.17.141	01-05-94	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
11N.03E.17.141A	01-04-94	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
11N.03E.17.141B	01-05-94	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
11N.03E.17.233	01-07-94	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
11N.03E.17.233A	01-04-94	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
11N.03E.17.233B	01-04-94	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
11N.03E.30.313	01-03-94	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
11N.03E.30.313A	01-03-94	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
11N.03E.30.313B	01-03-94	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
11N.03E.32.234A	11-29-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
11N.03E.32.234B	01-18-94	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
11N.03E.32.234C	01-10-94	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
ELENA GALLEGOS LAN	11-30-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
	11-30-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
	11-30-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
	11-23-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
ELENA GALLEGOS LAN	11-23-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2
ELENA GALLEGOS LAN	11-23-93	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

BERNALILLO COUNTY -- Continued

ORGANIC COMPOUND DATA

LOCAL IDENT- IFIER	DATE	ETHANE, 1112- TETRA- CHLORO- WAT UNF REC (UG/L) (77562)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL ETHER TERT- BUTYL WAT UNF REC (UG/L) (78032)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	BROMO- BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	DIBROMO CHLORO- PROPANE WATER WHOLE TOT.REC (UG/L) (82625)
09N.02E.12.214A	10-20-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
09N.02E.12.214B	10-19-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
09N.02E.12.214C	10-19-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
09N.03E.07.114	11-10-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
09N.03E.07.114A	11-10-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
09N.03E.07.114B	11-10-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
09N.03E.07.131A	10-21-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
09N.03E.07.131B	10-21-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
09N.03E.07.131C	10-21-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
09N.03E.07.241A	11-08-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
09N.03E.07.241B	11-08-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
09N.03E.07.241C	11-08-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
09N.03E.08.144A	11-09-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
09N.03E.08.144B	11-09-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
09N.03E.08.144C	11-09-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
11N.02E.25.341A	11-18-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
11N.02E.25.341B	11-18-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
11N.02E.25.341C	11-18-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
11N.03E.17.141	01-05-94	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
11N.03E.17.141A	01-04-94	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
11N.03E.17.141B	01-05-94	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
11N.03E.17.233	01-07-94	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
11N.03E.17.233A	01-04-94	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
11N.03E.17.233B	01-04-94	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
11N.03E.30.313	01-03-94	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
11N.03E.30.313A	01-03-94	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
11N.03E.30.313B	01-03-94	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
11N.03E.32.234A	11-29-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
11N.03E.32.234B	01-18-94	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
11N.03E.32.234C	01-10-94	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
ELENA GALLEGOS LAN	11-30-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
	11-30-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
	11-30-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
	11-23-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
ELENA GALLEGOS LAN	11-23-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0
ELENA GALLEGOS LAN	11-23-93	<0.2	<0.20	<0.2	<0.5	<1.0	<0.20	<0.2	<1.0

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DONA ANA COUNTY -- Continued

LOCAL IDENT- I- FIER	STATION	NUMBER	COUNTY	SITE	DATE	TIME	GEO- LOGIC UNIT	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
18S.04W.05.1233	324628107163401	013	GW	04-23-94	0850	110ALVM	6.77	15.04	4108	
18S.04W.05.314	324612107163801	013	GW	04-23-94	1300	110ALVM	7.92	19.98	4107	
18S.04W.08.342	324510107162601	013	GW	04-23-94	1620	110ALVM	8.15	18.35	4104	
18S.04W.16.342	324422107152201	013	GW	05-02-94	1700	110ALVM	12.11	23.18	4098	
18S.04W.17.4322	324419107160801	013	GW	04-24-94	1630	110ALVM	11.78	23.08	4090	
18S.04W.26.3323	324236107133701	013	GW	05-02-94	1420	110ALVM	5.74	17.47	4078	
18S.04W.27.1441	324257107142601	013	GW	04-22-94	1530	110ALVM	8.02	20.27	4080	
18S.04W.34.1344	324202107143101	013	GW	04-28-94	1430	110ALVM	12.28	24.19	4075	
19S.02W.16.3213	323917107031601	013	GW	05-05-94	1500	110ALVM	6.30	18.17	4025	
19S.02W.17.1414	323930107041401	013	GW	05-05-94	1000	110ALVM	10.78	23.25	4030	
19S.02W.20.222A	323852107033801	013	GW	05-07-94	0830	110ALVM	8.74	18.25	4027	
19S.02W.21.443	323802107024101	013	GW	05-06-94	1520	110ALVM	5.84	16.87	4020	
19S.02W.26.321	323733107011001	013	GW	05-06-94	1230	110ALVM	6.45	18.14	4008	
19S.02W.26.4424	323722107002801	013	GW	05-04-94	1520	110ALVM	9.63	23.02	4008	
19S.03W.05.434	324041107100001	013	GW	04-24-94	0900	110ALVM	5.48	16.06	4053	
19S.03W.07.131A	324021107114301	013	GW	04-27-94	1410	110ALVM	6.70	16.98	4065	
19S.03W.10.4322	323959107075401	013	GW	04-18-94	1430	110ALVM	9.61	20.76	4050	
19S.03W.14.2434	323920107064601	013	GW	05-07-94	1430	110ALVM	11.15	22.87	4050	
19S.04W.01.214	324122107120801	013	GW	04-28-94	0930	110ALVM	12.24	22.04	4062	
19S.04W.01.3234	324059107122301	013	GW	04-27-94	0940	110ALVM	6.97	19.89	4060	
20S.02W.01.343	323527107000701	013	GW	05-04-94	0930	110ALVM	3.92	15.07	4007	
20S.02W.02.1444	323601107010001	013	GW	05-04-94	1230	110ALVM	5.63	14.89	4008	

LOCAL IDENT- I- FIER	DATE	DEPTH OF HOLE, TOTAL (FEET) (72001)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CaCO3) (00900)
18S.04W.05.1233	04-23-94	15	1380	7.4	14.5	15.0	654	1.8	290
18S.04W.05.314	04-23-94	20	1090	7.4	29.0	17.0	653	0.1	310
18S.04W.08.342	04-23-94	18	1270	7.6	29.5	19.0	651	0.2	250
18S.04W.16.342	05-02-94	23	790	7.5	28.0	17.0	650	2.1	220
18S.04W.17.4322	04-24-94	23	1420	7.5	28.5	18.0	649	0.3	310
18S.04W.26.3323	05-02-94	17	1970	7.4	26.5	16.0	653	0.9	510
18S.04W.27.1441	04-22-94	20	1400	7.6	28.0	18.0	652	0.7	390
18S.04W.34.1344	04-28-94	24	1500	7.5	20.5	18.0	655	0.2	390
19S.02W.16.3213	05-05-94	18	1990	7.2	35.0	17.0	655	0.2	540
19S.02W.17.1414	05-05-94	23	1290	7.2	15.5	18.5	660	0.2	440
19S.02W.20.222A	05-07-94	18	1160	7.5	13.0	17.5	658	1.3	290
19S.02W.21.443	05-06-94	17	3420	7.3	31.5	17.5	656	0.1	910
19S.02W.26.321	05-06-94	18	2270	7.4	28.5	18.0	657	0.2	620
19S.02W.26.4424	05-04-94	23	5280	7.0	33.5	19.5	656	0.1	880
19S.03W.05.434	04-24-94	16	2270	7.6	16.0	10.0	653	0.1	610
19S.03W.07.131A	04-27-94	17	1820	7.2	17.5	17.0	650	0.8	560
19S.03W.10.4322	04-18-94	21	800	7.6	30.0	16.0	657	5.6	230
19S.03W.14.2434	05-07-94	23	1000	7.5	27.5	18.5	656	0.1	260
19S.04W.01.214	04-28-94	22	1740	7.3	2.5	16.0	658	1.1	510
19S.04W.01.3234	04-27-94	20	1700	7.7	12.5	18.0	652	0.1	470
20S.02W.01.343	05-04-94	15	1520	7.6	12.5	17.0	660	0.2	450
20S.02W.02.1444	05-04-94	15	1360	7.5	31.5	17.5	658	0.3	430

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DONA ANA COUNTY -- Continued

IDENT- IFIER	DATE	DISSOLV FLD. AS CACO3 (MG/L) (00904)		MAGNE- DIS- SOLVED (MG/L) AS CA (00925)		SODIUM SORP- TION RATIO (00931)	POTAS- DIS- SOLVED (MG/L) AS K (00935)	BONATE DIS IT FIELD MG/L AS HCO3 (00453)	ATKA- LINITY TOT IT FIELD MG/L AS CACO3 (39086)
		DISSOLV FLD. AS CACO3 (MG/L) (00904)	DIS- SOLVED (MG/L) AS CA (00915)	DIS- SOLVED (MG/L) AS MG (00925)	DIS- SOLVED (MG/L) AS NA (00930)				
18S.04W.05.1233	04-23-94	0	82	20	190	5	7.6	377	309
18S.04W.05.314	04-23-94	43	98	15	100	2	5.6	321	263
18S.04W.08.342	04-23-94	0	72	17	160	4	9.3	338	277
18S.04W.16.342	05-02-94	54	69	11	77	2	5.3	199	163
18S.04W.17.4322	04-24-94	100	99	15	170	4	7.0	255	291
18S.04W.26.3323	05-02-94	220	160	28	230	4	10	365	299
18S.04W.27.1441	04-22-94	120	120	23	140	3	7.2	339	278
18S.04W.34.1344	04-28-94	79	120	23	160	4	7.6	384	315
19S.02W.16.3213	05-05-94	240	160	35	210	4	7.4	374	307
19S.02W.17.1414	05-05-94	180	140	23	100	2	8.4	327	268
19S.02W.20.222A	05-07-94	72	89	17	120	3	21	269	221
19S.02W.21.443	05-06-94	390	250	70	460	7	9.6	641	526
19S.02W.26.321	05-06-94	480	220	18	250	4	13	174	143
19S.02W.26.4424	05-04-94	310	270	49	920	14	19	694	569
19S.03W.05.434	04-24-94	260	180	40	270	5	13	434	356
19S.03W.07.131A	04-27-94	250	170	33	170	3	7.7	373	306
19S.03W.10.4322	04-18-94	75	70	14	73	2	4.8	192	157
19S.03W.14.2434	05-07-94	81	80	15	110	3	4.2	220	180
19S.04W.01.214	04-28-94	230	160	26	180	3	9.9	341	280
19S.04W.01.3234	04-27-94	73	150	22	200	4	6.9	478	391
20S.02W.01.343	05-04-94	210	140	25	140	3	7.0	300	246
20S.02W.02.1444	05-04-94	220	130	25	110	2	6.3	254	208

LOCAL IDENT- I- FIER	DATE	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
18S.04W.05.1233	04-23-94	311	250	100	2.8	0.24	26	882	884
18S.04W.05.314	04-23-94	262	190	73	0.80	0.23	25	680	667
18S.04W.08.342	04-23-94	269	230	93	1.8	0.17	24	788	776
18S.04W.16.342	05-02-94	164	130	67	0.60	0.36	14	481	473
18S.04W.17.4322	04-24-94	283	310	94	1.4	0.21	21	894	844
18S.04W.26.3323	05-02-94	305	480	150	0.90	0.36	24	1370	1350
18S.04W.27.1441	04-22-94	275	300	100	1.0	0.26	21	888	881
18S.04W.34.1344	04-28-94	311	340	98	0.70	0.13	18	990	958
19S.02W.16.3213	05-05-94	312	410	130	0.80	0.31	27	1360	1300
19S.02W.17.1414	05-05-94	266	270	83	1.0	0.16	20	854	832
19S.02W.20.222A	05-07-94	221	210	100	0.70	0.15	24	702	715
19S.02W.21.443	05-06-94	515	980	290	0.60	0.63	29	2420	2410
19S.02W.26.321	05-06-94	138	820	170	1.1	0.53	26	1680	1600
19S.02W.26.4424	05-04-94	562	1700	450	2.9	0.97	27	3630	3780
19S.03W.05.434	04-24-94	348	620	170	0.50	0.43	14	1550	1540
19S.03W.07.131A	04-27-94	307	380	110	1.1	0.39	30	1280	1230
19S.03W.10.4322	04-18-94	158	130	72	0.50	0.13	11	486	471
19S.03W.14.2434	05-07-94	178	180	68	1.1	0.13	24	629	633
19S.04W.01.214	04-28-94	281	450	130	0.60	0.30	17	1200	1150
19S.04W.01.3234	04-27-94	392	370	120	0.70	0.27	21	1150	1130
20S.02W.01.343	05-04-94	240	330	150	0.50	0.25	26	1000	968
20S.02W.02.1444	05-04-94	206	310	120	0.50	0.22	19	868	849

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DONA ANA COUNTY -- Continued

LOCAL IDENT- I- FIER	DATE	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
18S.04W.05.1233	04-23-94	4.24	0.060	4.30	4.30	0.010	0.20	0.19	0.050
18S.04W.05.314	04-23-94	--	<0.010	--	<0.050	0.200	0.30	0.10	<0.010
18S.04W.08.342	04-23-94	0.090	0.020	0.110	0.110	0.020	<0.20	--	0.070
18S.04W.16.342	05-02-94	--	<0.010	0.210	0.210	0.030	<0.20	--	0.030
18S.04W.17.4322	04-24-94	--	<0.010	0.120	0.120	0.020	<0.20	--	0.020
18S.04W.26.3323	05-02-94	18.9	0.060	19.0	19.0	0.030	0.40	0.37	0.050
18S.04W.27.1441	04-22-94	--	<0.010	0.230	0.230	0.020	<0.20	--	0.060
18S.04W.34.1344	04-28-94	0.290	0.020	0.310	0.310	0.020	0.30	0.28	<0.010
19S.02W.16.3213	05-05-94	31.0	0.040	31.0	31.0	0.040	0.30	0.26	0.020
19S.02W.17.1414	05-05-94	5.52	0.080	5.60	5.60	0.030	0.30	0.27	<0.010
19S.02W.20.222A	05-07-94	--	<0.010	0.058	0.058	0.130	0.30	0.17	0.050
19S.02W.21.443	05-06-94	--	<0.010	--	<0.050	0.230	0.70	0.47	0.070
19S.02W.26.321	05-06-94	--	<0.010	--	<0.050	0.050	1.5	1.5	0.080
19S.02W.26.4424	05-04-94	0.520	0.050	0.570	0.570	0.160	0.30	0.14	0.030
19S.03W.05.434	04-24-94	3.31	0.090	3.40	3.40	0.050	0.30	0.25	<0.010
19S.03W.07.131A	04-27-94	33.0	0.030	33.0	33.0	0.020	0.80	0.78	0.030
19S.03W.10.4322	04-18-94	--	<0.010	0.160	0.160	<0.010	<0.20	--	0.020
19S.03W.14.2434	05-07-94	9.54	0.060	9.60	9.60	0.020	0.50	0.48	0.010
19S.04W.01.214	04-28-94	1.17	0.030	1.20	1.20	0.020	0.20	0.18	<0.010
19S.04W.01.3234	04-27-94	--	0.010	--	<0.050	0.330	0.50	0.17	0.050
20S.02W.01.343	05-04-94	--	<0.010	--	<0.050	0.250	1.2	0.95	0.010
20S.02W.02.1444	05-04-94	--	<0.010	0.380	0.380	0.080	0.30	0.22	0.040

LOCAL IDENT- I- FIER	DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)
18S.04W.05.1233	04-23-94	0.060	2.2	<1	<0.02	<1	<1	3
18S.04W.05.314	04-23-94	0.020	2.2	<1	0.02	<1	<1	56
18S.04W.08.342	04-23-94	0.050	2.2	<1	<0.02	2	<1	81
18S.04W.16.342	05-02-94	0.030	1.6	<1	<0.02	1	<1	61
18S.04W.17.4322	04-24-94	0.020	2.6	<1	<0.02	5	<1	51
18S.04W.26.3323	05-02-94	0.050	3.7	<1	<0.02	<1	<1	49
18S.04W.27.1441	04-22-94	0.050	2.4	<1	<0.02	2	<1	59
18S.04W.34.1344	04-28-94	<0.010	2.9	2	<0.02	2	<1	52
19S.02W.16.3213	05-05-94	0.010	3.4	<1	<0.02	<1	<1	41
19S.02W.17.1414	05-05-94	0.010	2.7	<1	<0.02	<1	<1	82
19S.02W.20.222A	05-07-94	0.060	2.6	<1	<0.02	2	<1	99
19S.02W.21.443	05-06-94	0.050	5.3	<1	<0.02	<2	<2	49
19S.02W.26.321	05-06-94	0.020	1.1	<1	<0.02	<1	<1	29
19S.02W.26.4424	05-04-94	0.040	4.1	<1	<0.02	<3	<3	35
19S.03W.05.434	04-24-94	0.010	3.8	<1	<0.02	2	<1	110
19S.03W.07.131A	04-27-94	0.020	2.5	2	0.03	<1	<1	70
19S.03W.10.4322	04-18-94	0.020	1.9	<1	<0.02	6	<1	85
19S.03W.14.2434	05-07-94	0.020	4.1	<1	<0.02	2	<1	44
19S.04W.01.214	04-28-94	<0.010	3.0	4	<0.02	2	<1	94
19S.04W.01.3234	04-27-94	0.060	3.1	<1	<0.02	<1	<1	55
20S.02W.01.343	05-04-94	<0.010	2.8	<1	<0.02	1	<1	96
20S.02W.02.1444	05-04-94	0.050	2.6	2	<0.02	2	<1	110

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DONA ANA COUNTY -- Continued

IDENT- I- FIER	DATE	BERYL-		CHRO-		DIS- SOLVED (UG/L AS CU) (01040)	DIS- SOLVED (UG/L AS FE) (01046)	DIS- SOLVED (UG/L AS PB) (01049)	DIS- SOLVED (UG/L AS MN) (01056)
		DIS- SOLVED (UG/L AS BE) (01010)	DIS- SOLVED (UG/L AS CD) (01025)	DIS- SOLVED (UG/L AS CR) (01030)	DIS- SOLVED (UG/L AS CO) (01035)				
18S.04W.05.1233	04-23-94	<1	<1.0	4	<1	2	6	<1	220
18S.04W.05.314	04-23-94	<1	<1.0	3	<1	2	1100	<1	>1000
18S.04W.08.342	04-23-94	<1	<1.0	5	<1	5	<3	<1	1400
18S.04W.16.342	05-02-94	<1	<1.0	2	<1	2	7	<1	<1
18S.04W.17.4322	04-24-94	<1	<1.0	4	<1	5	<3	<1	170
18S.04W.26.3323	05-02-94	<1	<1.0	4	<1	6	<3	<1	77
18S.04W.27.1441	04-22-94	<1	<1.0	5	<1	3	83	<1	>1000
18S.04W.34.1344	04-28-94	<1	<1.0	5	<1	3	9	<1	710
19S.02W.16.3213	05-05-94	<1	<1.0	5	<1	4	3	<1	440
19S.02W.17.1414	05-05-94	<1	<1.0	4	<1	3	5	<1	740
19S.02W.20.222A	05-07-94	<1	<1.0	<1	<1	4	<3	<1	220
19S.02W.21.443	05-06-94	<2	4.0	10	<2	21	1000	<2	>1000
19S.02W.26.321	05-06-94	<1	<1.0	3	<1	11	19	<1	300
19S.02W.26.4424	05-04-94	<3	<3.0	6	4	18	32	<3	>1000
19S.03W.05.434	04-24-94	<1	<1.0	4	<1	6	140	<1	920
19S.03W.07.131A	04-27-94	<1	<1.0	6	<1	4	<3	<1	17
19S.03W.10.4322	04-18-94	<1	<1.0	3	<1	1	<3	<1	<1
19S.03W.14.2434	05-07-94	<1	<1.0	<1	<1	2	<3	<1	210
19S.04W.01.214	04-28-94	<1	2.0	7	<1	5	100	<1	230
19S.04W.01.3234	04-27-94	<1	<1.0	6	<1	3	26	<1	>1000
20S.02W.01.343	05-04-94	<1	<1.0	4	<1	3	980	<1	>1000
20S.02W.02.1444	05-04-94	<1	<1.0	3	<1	4	3	<1	950

LOCAL IDENT- I- FIER	DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS AS NAT U (UG/L) (75986)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)
18S.04W.05.1233	04-23-94	15	2	<1	<1.0	2	15	3.8	11
18S.04W.05.314	04-23-94	9	<1	<1	<1.0	1	1.9	1.2	1.2
18S.04W.08.342	04-23-94	8	2	<1	<1.0	3	11	2.9	7.5
18S.04W.16.342	05-02-94	7	1	<1	<1.0	2	3.8	1.4	2.6
18S.04W.17.4322	04-24-94	13	2	<1	<1.0	5	11	3.1	7.5
18S.04W.26.3323	05-02-94	17	3	<1	<1.0	4	18	4.6	12
18S.04W.27.1441	04-22-94	8	1	<1	<1.0	2	8.5	2.8	5.9
18S.04W.34.1344	04-28-94	11	2	<1	<1.0	3	18	4.6	13
19S.02W.16.3213	05-05-94	12	3	<1	<1.0	3	13	3.9	8.9
19S.02W.17.1414	05-05-94	12	2	<1	<1.0	3	8.6	2.6	6.0
19S.02W.20.222A	05-07-94	7	2	<1	<1.0	2	2.0	1.1	1.4
19S.02W.21.443	05-06-94	9	4	<1	<2.0	8	13	5.6	9.3
19S.02W.26.321	05-06-94	18	3	<1	<1.0	6	4.8	2.5	3.3
19S.02W.26.4424	05-04-94	18	8	<1	<3.0	14	7.9	8.4	5.5
19S.03W.05.434	04-24-94	17	3	<1	<1.0	4	34	7.8	24
19S.03W.07.131A	04-27-94	10	2	1	<1.0	5	14	4.5	9.6
19S.03W.10.4322	04-18-94	5	1	<1	<1.0	<1	3.8	1.4	2.7
19S.03W.14.2434	05-07-94	16	2	<1	<1.0	2	3.9	1.4	2.4
19S.04W.01.214	04-28-94	9	3	<1	<1.0	3	21	5.0	13
19S.04W.01.3234	04-27-94	11	2	<1	<1.0	3	21	5.7	15
20S.02W.01.343	05-04-94	6	1	<1	<1.0	4	2.0	1.5	1.4
20S.02W.02.1444	05-04-94	4	2	<1	<1.0	4	2.2	1.3	1.5

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DONA ANA COUNTY -- Continued

LOCAL IDENT- IFIER	DATE	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	GROSS BETA, DIS- SOLVED AS (PCI/L) CS-137 (03515)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED AS (PCI/L) AS SR/ Y-90 (80050)	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L) (75988)	RADON 222 TOTAL (PCI/L) (82303)	RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)	URANIUM NATURAL DIS- SOLVED (UG/L) AS U (22703)
18S.04W.05.1233	04-23-94	2.7	9.1	2.7	6.8	2.0	--	--	13
18S.04W.05.314	04-23-94	0.73	8.0	2.2	5.9	1.6	--	--	<1.0
18S.04W.08.342	04-23-94	2.0	14	3.1	11	2.4	--	--	8.0
18S.04W.16.342	05-02-94	0.95	9.5	2.0	7.2	1.5	390	24	2.0
18S.04W.17.4322	04-24-94	2.1	13	3.0	9.4	2.3	240	20	10
18S.04W.26.3323	05-02-94	3.2	17	4.2	13	3.1	240	22	15
18S.04W.27.1441	04-22-94	1.9	12	3.1	9.0	2.3	--	--	7.0
18S.04W.34.1344	04-28-94	3.2	19	4.2	14	3.2	--	--	14
19S.02W.16.3213	05-05-94	2.8	14	3.8	11	2.9	260	19	12
19S.02W.17.1414	05-05-94	1.8	13	3.1	10	2.4	240	18	7.0
19S.02W.20.222A	05-07-94	0.79	27	4.3	20	3.3	--	--	1.0
19S.02W.21.443	05-06-94	4.0	16	5.7	12	4.3	--	--	9.0
19S.02W.26.321	05-06-94	1.7	23	5.1	17	3.8	--	--	6.0
19S.02W.26.4424	05-04-94	5.9	30	9.2	23	7.0	260	18	6.0
19S.03W.05.434	04-24-94	5.6	29	6.1	22	4.6	250	29	41
19S.03W.07.131A	04-27-94	3.2	19	4.6	15	3.5	260	22	14
19S.03W.10.4322	04-18-94	0.96	8.3	1.9	6.2	1.4	310	22	3.0
19S.03W.14.2434	05-07-94	0.92	6.3	1.8	4.7	1.3	--	--	3.0
19S.04W.01.214	04-28-94	3.4	14	3.3	10	2.5	--	--	13
19S.04W.01.3234	04-27-94	4.0	16	4.0	12	3.0	280	23	17
20S.02W.01.343	05-04-94	1.0	8.4	2.6	6.3	1.9	210	18	<1.0
20S.02W.02.1444	05-04-94	0.91	12	2.9	9.0	2.2	250	18	2.0

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS

LOCAL IDENT- I- FIER	STATION	NUMBER	COUNTY	DATE	GEO- LOGIC UNIT	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)
18S.04W.05.1233	324628107163401	013	04-23-94	110ALVM	6.77	<0.015	<0.008	<0.008	<0.008	<0.008
18S.04W.05.314	324612107163801	013	04-23-94	110ALVM	7.92	<0.015	<0.008	<0.008	<0.008	<0.008
18S.04W.08.342	324510107162601	013	04-23-94	110ALVM	8.15	<0.015	<0.008	<0.008	<0.008	<0.008
18S.04W.16.342	324422107152201	013	05-02-94	110ALVM	12.11	<0.015	<0.008	<0.008	<0.008	EO.005
18S.04W.17.4322	324419107160801	013	04-24-94	110ALVM	11.78	<0.015	<0.008	<0.008	<0.008	<0.008
18S.04W.26.3323	324236107133701	013	05-02-94	110ALVM	5.74	<0.015	<0.008	<0.008	<0.008	<0.008
18S.04W.27.1441	324257107142601	013	04-22-94	110ALVM	8.02	<0.015	<0.008	<0.008	<0.008	<0.008
18S.04W.34.1344	324202107143101	013	04-28-94	110ALVM	12.28	<0.015	<0.008	<0.008	<0.008	<0.008
19S.02W.16.3213	323917107031601	013	05-05-94	110ALVM	6.30	<0.015	<0.008	<0.008	<0.008	<0.008
19S.02W.17.1414	323930107041401	013	05-05-94	110ALVM	10.78	<0.015	<0.008	<0.008	<0.008	<0.008
19S.02W.20.222A	323852107033801	013	05-07-94	110ALVM	8.74	<0.015	<0.008	<0.008	<0.008	0.01
19S.02W.21.443	323802107024101	013	05-06-94	110ALVM	5.84	<0.015	<0.008	<0.008	<0.008	<0.008
19S.02W.26.321	323733107011001	013	05-06-94	110ALVM	6.45	<0.015	<0.008	<0.008	<0.008	<0.008
19S.02W.26.4424	323722107002801	013	05-04-94	110ALVM	9.63	<0.015	<0.008	<0.008	<0.008	0.32
19S.03W.05.434	324041107100001	013	04-24-94	110ALVM	5.48	<0.015	<0.008	<0.008	<0.008	<0.008
19S.03W.07.131A	324021107114301	013	04-27-94	110ALVM	6.70	<0.015	<0.008	<0.008	<0.008	<0.008
19S.03W.10.4322	323959107075401	013	04-18-94	110ALVM	9.61	<0.015	<0.008	<0.008	<0.008	<0.008
19S.03W.14.2434	323920107064601	013	05-07-94	110ALVM	11.2	<0.015	<0.008	<0.008	<0.008	0.012
19S.04W.01.214	324122107120801	013	04-28-94	110ALVM	12.24	<0.015	<0.008	<0.008	<0.008	<0.008
19S.04W.01.3234	324059107122301	013	04-27-94	110ALVM	6.97	<0.015	<0.008	<0.008	<0.008	<0.008
20S.02W.01.343	323527107000701	013	05-04-94	110ALVM	3.92	<0.015	<0.008	<0.008	<0.008	<0.008
20S.02W.02.1444	323601107010001	013	05-04-94	110ALVM	5.63	<0.015	<0.008	<0.008	<0.008	<0.008

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DONA ANA COUNTY -- Continued

ORGANIC COMPOUND DATA

LOCAL IDENT- I- FIER	DATE	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	DI- BROMO- METHANE WATER WHOLE RECOVER (UG/L) (30217)	DI- CHLORO- BROMO- METHANE TOTAL (UG/L) (32101)	CARBON- TETRA- CHLO- RIDE TOTAL (UG/L) (32102)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	BROMO- FORM TOTAL (UG/L) (32104)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)
18S.04W.05.1233	04-23-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
18S.04W.05.314	04-23-94	<0.005	<0.013	<0.008	--	--	--	--	--	--
18S.04W.08.342	04-23-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
18S.04W.16.342	05-02-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
18S.04W.17.4322	04-24-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
18S.04W.26.3323	05-02-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
18S.04W.27.1441	04-22-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
18S.04W.34.1344	04-28-94	<0.005	<0.013	<0.008	--	--	--	--	--	--
19S.02W.16.3213	05-05-94	<0.005	<0.013	<0.008	--	--	--	--	--	--
19S.02W.17.1414	05-05-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
19S.02W.20.222A	05-07-94	<0.005	<0.013	<0.008	--	--	--	--	--	--
19S.02W.21.443	05-06-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
19S.02W.26.321	05-06-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
19S.02W.26.4424	05-04-94	<0.005	<0.013	<0.008	--	--	--	--	--	--
19S.03W.05.434	04-24-94	<0.005	<0.013	<0.008	--	--	--	--	--	--
19S.03W.07.131A	04-27-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
19S.03W.10.4322	04-18-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
19S.03W.14.2434	05-07-94	<0.005	<0.013	<0.008	--	--	--	--	--	--
19S.04W.01.214	04-28-94	<0.005	<0.013	<0.008	--	--	--	--	--	--
19S.04W.01.3234	04-27-94	<0.005	<0.013	<0.008	--	--	--	--	--	--
20S.02W.01.343	05-04-94	<0.005	<0.013	<0.008	--	--	--	--	--	--
20S.02W.02.1444	05-04-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

LOCAL IDENT- I- FIER	DATE	CHLORO- FORM TOTAL (UG/L) (32106)	PHENOLS TOTAL (UG/L) (32730)	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	CHLORO- BENZENE TOTAL (UG/L) (34301)	CHLORO- ETHANE TOTAL (UG/L) (34311)	ETHYL- BENZENE TOTAL (UG/L) (34371)	METHYL- BROMIDE TOTAL (UG/L) (34413)
18S.04W.05.1233	04-23-94	<0.2	<1	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2
18S.04W.05.314	04-23-94	--	<1	--	--	<0.007	--	--	--	--
18S.04W.08.342	04-23-94	<0.2	<1	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2
18S.04W.16.342	05-02-94	<0.2	<1	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2
18S.04W.17.4322	04-24-94	<0.2	<1	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2
18S.04W.26.3323	05-02-94	<0.2	<1	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2
18S.04W.27.1441	04-22-94	<0.2	<1	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2
18S.04W.34.1344	04-28-94	--	2	--	--	<0.007	--	--	--	--
19S.02W.16.3213	05-05-94	--	<1	--	--	<0.007	--	--	--	--
19S.02W.17.1414	05-05-94	<0.2	<1	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2
19S.02W.20.222A	05-07-94	--	<1	--	--	<0.007	--	--	--	--
19S.02W.21.443	05-06-94	<0.2	<1	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2
19S.02W.26.321	05-06-94	<0.2	<1	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2
19S.02W.26.4424	05-04-94	--	<1	--	--	<0.007	--	--	--	--
19S.03W.05.434	04-24-94	--	<1	--	--	<0.007	--	--	--	--
19S.03W.07.131A	04-27-94	<0.2	2	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2
19S.03W.10.4322	04-18-94	<0.2	<1	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2
19S.03W.14.2434	05-07-94	--	<1	--	--	<0.007	--	--	--	--
19S.04W.01.214	04-28-94	--	4	--	--	<0.007	--	--	--	--
19S.04W.01.3234	04-27-94	--	<1	--	--	<0.007	--	--	--	--
20S.02W.01.343	05-04-94	--	<1	--	--	<0.007	--	--	--	--
20S.02W.02.1444	05-04-94	<0.2	2	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DONA ANA COUNTY -- Continued

ORGANIC COMPOUND DATA

LOCAL IDENT- IFIER	DATE	METHYL- CHLO- RIDE TOTAL (UG/L) (34418)	METHYL- ENE CHLO- RIDE TOTAL (UG/L) (34423)	TETRA- CHLO- ETHYL- ENE TOTAL (UG/L) (34475)	TRI- CHLO- FLURO- METHANE TOTAL (UG/L) (34488)	1,1-DI- CHLO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLO- ETHYL- ENE TOTAL (UG/L) (34501)	1,1,1- TRI- CHLO- ETHANE TOTAL (UG/L) (34506)	1,1,2- TRI- CHLO- ETHANE TOTAL (UG/L) (34511)	ETHANE, 1,1,2,2 TETRA- CHLO- WAT UNF REC (UG/L) (34516)
18S.04W.05.1233	04-23-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
18S.04W.05.314	04-23-94	--	--	--	--	--	--	--	--	--
18S.04W.08.342	04-23-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
18S.04W.16.342	05-02-94	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
18S.04W.17.4322	04-24-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
18S.04W.26.3323	05-02-94	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
18S.04W.27.1441	04-22-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
18S.04W.34.1344	04-28-94	--	--	--	--	--	--	--	--	--
19S.02W.16.3213	05-05-94	--	--	--	--	--	--	--	--	--
19S.02W.17.1414	05-05-94	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
19S.02W.20.222A	05-07-94	--	--	--	--	--	--	--	--	--
19S.02W.21.443	05-06-94	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
19S.02W.26.321	05-06-94	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
19S.02W.26.4424	05-04-94	--	--	--	--	--	--	--	--	--
19S.03W.05.434	04-24-94	--	--	--	--	--	--	--	--	--
19S.03W.07.131A	04-27-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
19S.03W.10.4322	04-18-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
19S.03W.14.2434	05-07-94	--	--	--	--	--	--	--	--	--
19S.04W.01.214	04-28-94	--	--	--	--	--	--	--	--	--
19S.04W.01.3234	04-27-94	--	--	--	--	--	--	--	--	--
20S.02W.01.343	05-04-94	--	--	--	--	--	--	--	--	--
20S.02W.02.1444	05-04-94	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

LOCAL IDENT- IFIER	DATE	BENZENE O- CHLO- WATER UNFLTRD REC (UG/L) (34536)	1,2-DI- CHLO- PROPANE TOTAL (UG/L) (34541)	1,2- TRANSDI- CHLO- ETHENE TOTAL (UG/L) (34546)	BENZENE 1,2,4- TRI- CHLO- WAT UNF REC (UG/L) (34551)	BENZENE 1,3-DI- CHLO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLO- WATER UNFLTRD REC (UG/L) (34571)	P, P' DDE DISSOLV (UG/L) (34653)	DI- CHLO- DI- FLURO- METHANE TOTAL (UG/L) (34668)	NAPHTH- ALENE TOTAL (UG/L) (34696)
18S.04W.05.1233	04-23-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2
18S.04W.05.314	04-23-94	--	--	--	--	--	--	<0.010	--	--
18S.04W.08.342	04-23-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2
18S.04W.16.342	05-02-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2
18S.04W.17.4322	04-24-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2
18S.04W.26.3323	05-02-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2
18S.04W.27.1441	04-22-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2
18S.04W.34.1344	04-28-94	--	--	--	--	--	--	<0.010	--	--
19S.02W.16.3213	05-05-94	--	--	--	--	--	--	E0.002	--	--
19S.02W.17.1414	05-05-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2
19S.02W.20.222A	05-07-94	--	--	--	--	--	--	<0.010	--	--
19S.02W.21.443	05-06-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2
19S.02W.26.321	05-06-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2
19S.02W.26.4424	05-04-94	--	--	--	--	--	--	<0.010	--	--
19S.03W.05.434	04-24-94	--	--	--	--	--	--	<0.010	--	--
19S.03W.07.131A	04-27-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2
19S.03W.10.4322	04-18-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2
19S.03W.14.2434	05-07-94	--	--	--	--	--	--	<0.010	--	--
19S.04W.01.214	04-28-94	--	--	--	--	--	--	<0.010	--	--
19S.04W.01.3234	04-27-94	--	--	--	--	--	--	<0.010	--	--
20S.02W.01.343	05-04-94	--	--	--	--	--	--	<0.010	--	--
20S.02W.02.1444	05-04-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DONA ANA COUNTY -- Continued

LOCAL IDENT- IFIER	DATE	TRANS- 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34699)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34704)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	LINDANE DIS- SOLVED (UG/L) (39341)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)
18S.04W.05.1233	04-23-94	<0.2	<0.2	<0.02	<0.008	<0.2	<0.2	<0.011	<0.008	<0.009
18S.04W.05.314	04-23-94	--	--	0.02	<0.008	--	--	<0.011	<0.008	<0.009
18S.04W.08.342	04-23-94	<0.2	<0.2	<0.02	<0.008	<0.2	<0.2	<0.011	<0.008	E0.005
18S.04W.16.342	05-02-94	<0.2	<0.2	<0.02	<0.008	<0.2	<0.2	<0.011	<0.008	<0.009
18S.04W.17.4322	04-24-94	<0.2	<0.2	<0.02	<0.008	<0.2	<0.2	<0.011	<0.008	<0.009
18S.04W.26.3323	05-02-94	<0.2	<0.2	<0.02	<0.008	<0.2	<0.2	<0.011	<0.008	0.13
18S.04W.27.1441	04-22-94	<0.2	<0.2	<0.02	<0.008	<0.2	<0.2	<0.011	<0.008	<0.009
18S.04W.34.1344	04-28-94	--	--	<0.02	<0.008	--	--	<0.011	<0.008	0.01
19S.02W.16.3213	05-05-94	--	--	<0.02	<0.008	--	--	<0.011	<0.008	<0.009
19S.02W.17.1414	05-05-94	<0.2	<0.2	<0.02	<0.008	<0.2	<0.2	<0.011	<0.008	E0.005
19S.02W.20.222A	05-07-94	--	--	<0.02	<0.008	--	--	<0.011	<0.008	E0.005
19S.02W.21.443	05-06-94	<0.2	<0.2	<0.02	<0.008	<0.2	<0.2	<0.011	<0.008	<0.009
19S.02W.26.321	05-06-94	<0.2	<0.2	<0.02	<0.008	<0.2	<0.2	<0.011	<0.008	<0.009
19S.02W.26.4424	05-04-94	--	--	<0.02	<0.008	--	--	<0.011	<0.008	<0.009
19S.03W.05.434	04-24-94	--	--	<0.02	<0.008	--	--	<0.011	<0.008	0.018
19S.03W.07.131A	04-27-94	<0.2	<0.2	0.03	<0.008	<0.2	<0.2	<0.011	<0.008	0.38
19S.03W.10.4322	04-18-94	<0.2	<0.2	<0.02	<0.008	<0.2	<0.2	<0.011	<0.008	<0.009
19S.03W.14.2434	05-07-94	--	--	<0.02	<0.008	--	--	<0.011	<0.008	5.4
19S.04W.01.214	04-28-94	--	--	<0.02	<0.008	--	--	<0.011	<0.008	<0.009
19S.04W.01.3234	04-27-94	--	--	<0.02	<0.008	--	--	<0.011	<0.008	<0.009
20S.02W.01.343	05-04-94	--	--	<0.02	<0.008	--	--	<0.011	<0.008	<0.009
20S.02W.02.1444	05-04-94	<0.2	<0.2	<0.02	<0.008	<0.2	<0.2	<0.011	<0.008	<0.009

LOCAL IDENT- IFIER	DATE	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L) (39702)	ALA- CHLOR, WATER, DISS, REC (UG/L) (46342)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L) (77093)	STYRENE TOTAL (UG/L) (77128)	1,1-DI CHLORO- PRO- PENE, WAT, WH TOTAL (UG/L) (77168)
18S.04W.05.1233	04-23-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2
18S.04W.05.314	04-23-94	<0.014	<0.022	<0.008	<0.017	--	<0.009	--	--	--
18S.04W.08.342	04-23-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2
18S.04W.16.342	05-02-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2
18S.04W.17.4322	04-24-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2
18S.04W.26.3323	05-02-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2
18S.04W.27.1441	04-22-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2
18S.04W.34.1344	04-28-94	<0.014	<0.022	<0.008	<0.017	--	<0.009	--	--	--
19S.02W.16.3213	05-05-94	<0.014	<0.022	<0.008	<0.017	--	<0.009	--	--	--
19S.02W.17.1414	05-05-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2
19S.02W.20.222A	05-07-94	<0.014	<0.022	0.077	<0.017	--	<0.009	--	--	--
19S.02W.21.443	05-06-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2
19S.02W.26.321	05-06-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2
19S.02W.26.4424	05-04-94	<0.014	<0.022	<0.008	<0.017	--	<0.009	--	--	--
19S.03W.05.434	04-24-94	<0.014	<0.022	<0.008	<0.017	--	<0.009	--	--	--
19S.03W.07.131A	04-27-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2
19S.03W.10.4322	04-18-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2
19S.03W.14.2434	05-07-94	<0.014	<0.022	<0.008	<0.017	--	<0.009	--	--	--
19S.04W.01.214	04-28-94	<0.014	<0.022	<0.008	<0.017	--	<0.009	--	--	--
19S.04W.01.3234	04-27-94	<0.014	<0.022	<0.008	<0.017	--	<0.009	--	--	--
20S.02W.01.343	05-04-94	<0.014	<0.022	<0.008	<0.017	--	<0.009	--	--	--
20S.02W.02.1444	05-04-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DONA ANA COUNTY -- Continued

ORGANIC COMPOUND DATA

LOCAL IDENT- I- FIER	DATE	2,2-DI- CHLORO- PRO- PANE WAT. WH TOTAL (UG/L) (77170)	1,3-DI- CHLORO- PROPANE WAT. WH TOTAL (UG/L) (77173)	PSEUDO- CUMENE WATER UNFLTRD REC (UG/L) (77222)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	MESIT- YLENE WATER UNFLTRD REC (UG/L) (77226)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	METHANE BROMO CHLORO- WAT UNFLTRD REC (UG/L) (77297)
18S.04W.05.1233	04-23-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
18S.04W.05.314	04-23-94	--	--	--	--	--	--	--	--	--
18S.04W.08.342	04-23-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
18S.04W.16.342	05-02-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
18S.04W.17.4322	04-24-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
18S.04W.26.3323	05-02-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
18S.04W.27.1441	04-22-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
18S.04W.34.1344	04-28-94	--	--	--	--	--	--	--	--	--
19S.02W.16.3213	05-05-94	--	--	--	--	--	--	--	--	--
19S.02W.17.1414	05-05-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
19S.02W.20.222A	05-07-94	--	--	--	--	--	--	--	--	--
19S.02W.21.443	05-06-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
19S.02W.26.321	05-06-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
19S.02W.26.4424	05-04-94	--	--	--	--	--	--	--	--	--
19S.03W.05.434	04-24-94	--	--	--	--	--	--	--	--	--
19S.03W.07.131A	04-27-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
19S.03W.10.4322	04-18-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
19S.03W.14.2434	05-07-94	--	--	--	--	--	--	--	--	--
19S.04W.01.214	04-28-94	--	--	--	--	--	--	--	--	--
19S.04W.01.3234	04-27-94	--	--	--	--	--	--	--	--	--
20S.02W.01.343	05-04-94	--	--	--	--	--	--	--	--	--
20S.02W.02.1444	05-04-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20

LOCAL IDENT- I- FIER	DATE	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE SEC BUTYL- WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT- BUTYL- WATER UNFLTRD REC (UG/L) (77353)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356)	123-TRI- CHLORO- PROPANE WATER WHOLE TOTAL (UG/L) (77443)	ETHANE, 1112- TETRA- CHLORO- WAT UNF REC (UG/L) (77562)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)
18S.04W.05.1233	04-23-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2
18S.04W.05.314	04-23-94	--	--	--	--	--	--	--	--	--
18S.04W.08.342	04-23-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2
18S.04W.16.342	05-02-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2
18S.04W.17.4322	04-24-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2
18S.04W.26.3323	05-02-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2
18S.04W.27.1441	04-22-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2
18S.04W.34.1344	04-28-94	--	--	--	--	--	--	--	--	--
19S.02W.16.3213	05-05-94	--	--	--	--	--	--	--	--	--
19S.02W.17.1414	05-05-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2
19S.02W.20.222A	05-07-94	--	--	--	--	--	--	--	--	--
19S.02W.21.443	05-06-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2
19S.02W.26.321	05-06-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2
19S.02W.26.4424	05-04-94	--	--	--	--	--	--	--	--	--
19S.03W.05.434	04-24-94	--	--	--	--	--	--	--	--	--
19S.03W.07.131A	04-27-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2
19S.03W.10.4322	04-18-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2
19S.03W.14.2434	05-07-94	--	--	--	--	--	--	--	--	--
19S.04W.01.214	04-28-94	--	--	--	--	--	--	--	--	--
19S.04W.01.3234	04-27-94	--	--	--	--	--	--	--	--	--
20S.02W.01.343	05-04-94	--	--	--	--	--	--	--	--	--
20S.02W.02.1444	05-04-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DONA ANA COUNTY -- Continued

ORGANIC COMPOUND DATA

LOCAL IDENT- I- FIER	DATE	METHYL ETHER TERT- BUTYL WAT UNF REC (UG/L) (78032)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	BROMO- BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	DIBROMO CHLORO- PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH- OATE WATER FLTRD 0.7 U GG, REC (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
18S.04W.05.1233	04-23-94	<0.2	<0.20	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
18S.04W.05.314	04-23-94	--	--	--	--	<0.012	<0.006	<0.012	<0.024	<0.013
18S.04W.08.342	04-23-94	<0.2	<0.20	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
18S.04W.16.342	05-02-94	<0.2	<0.20	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
18S.04W.17.4322	04-24-94	<0.2	<0.20	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
18S.04W.26.3323	05-02-94	<0.2	<0.20	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
18S.04W.27.1441	04-22-94	<0.2	2.8	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
18S.04W.34.1344	04-28-94	--	--	--	--	<0.012	<0.006	<0.012	<0.024	<0.013
19S.02W.16.3213	05-05-94	--	--	--	--	<0.012	<0.006	<0.012	<0.024	<0.013
19S.02W.17.1414	05-05-94	<0.2	<0.20	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
19S.02W.20.222A	05-07-94	--	--	--	--	<0.012	<0.006	<0.012	<0.024	<0.013
19S.02W.21.443	05-06-94	<0.2	<0.20	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
19S.02W.26.321	05-06-94	<0.2	0.30	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
19S.02W.26.4424	05-04-94	--	--	--	--	<0.012	<0.006	<0.012	<0.024	<0.013
19S.03W.05.434	04-24-94	--	--	--	--	<0.012	<0.006	<0.012	<0.024	<0.013
19S.03W.07.131A	04-27-94	<0.2	<0.20	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
19S.03W.10.4322	04-18-94	<0.2	<0.20	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
19S.03W.14.2434	05-07-94	--	--	--	--	<0.012	<0.006	<0.012	<0.024	<0.013
19S.04W.01.214	04-28-94	--	--	--	--	<0.012	<0.006	<0.012	<0.024	<0.013
19S.04W.01.3234	04-27-94	--	--	--	--	<0.012	<0.006	<0.012	<0.024	<0.013
20S.02W.01.343	05-04-94	--	--	--	--	<0.012	<0.006	<0.012	<0.024	<0.013
20S.02W.02.1444	05-04-94	<0.2	<0.20	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
LOCAL IDENT- I- FIER	DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	
18S.04W.05.1233	04-23-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
18S.04W.05.314	04-23-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
18S.04W.08.342	04-23-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
18S.04W.16.342	05-02-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
18S.04W.17.4322	04-24-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
18S.04W.26.3323	05-02-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
18S.04W.27.1441	04-22-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
18S.04W.34.1344	04-28-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
19S.02W.16.3213	05-05-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
19S.02W.17.1414	05-05-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
19S.02W.20.222A	05-07-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
19S.02W.21.443	05-06-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
19S.02W.26.321	05-06-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
19S.02W.26.4424	05-04-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
19S.03W.05.434	04-24-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
19S.03W.07.131A	04-27-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
19S.03W.10.4322	04-18-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
19S.03W.14.2434	05-07-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
19S.04W.01.214	04-28-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
19S.04W.01.3234	04-27-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
20S.02W.01.343	05-04-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	
20S.02W.02.1444	05-04-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007	

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DONA ANA COUNTY -- Continued

ORGANIC COMPOUND DATA

LOCAL IDENT- I- FIER	DATE	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
18S.04W.05.1233	04-23-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
18S.04W.05.314	04-23-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
18S.04W.08.342	04-23-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
18S.04W.16.342	05-02-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
18S.04W.17.4322	04-24-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
18S.04W.26.3323	05-02-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
18S.04W.27.1441	04-22-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
18S.04W.34.1344	04-28-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
19S.02W.16.3213	05-05-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
19S.02W.17.1414	05-05-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
19S.02W.20.222A	05-07-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
19S.02W.21.443	05-06-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
19S.02W.26.321	05-06-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
19S.02W.26.4424	05-04-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
19S.03W.05.434	04-24-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
19S.03W.07.131A	04-27-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
19S.03W.10.4322	04-18-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
19S.03W.14.2434	05-07-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
19S.04W.01.214	04-28-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
19S.04W.01.3234	04-27-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
20S.02W.01.343	05-04-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
20S.02W.02.1444	05-04-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016

LOCAL IDENT- I- FIER	DATE	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
18S.04W.05.1233	04-23-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
18S.04W.05.314	04-23-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
18S.04W.08.342	04-23-94	<0.046	<0.008	<0.004	<0.018	0.014	<0.008	<0.05	<0.016
18S.04W.16.342	05-02-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
18S.04W.17.4322	04-24-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
18S.04W.26.3323	05-02-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
18S.04W.27.1441	04-22-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
18S.04W.34.1344	04-28-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
19S.02W.16.3213	05-05-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
19S.02W.17.1414	05-05-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
19S.02W.20.222A	05-07-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
19S.02W.21.443	05-06-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
19S.02W.26.321	05-06-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
19S.02W.26.4424	05-04-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
19S.03W.05.434	04-24-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
19S.03W.07.131A	04-27-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
19S.03W.10.4322	04-18-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
19S.03W.14.2434	05-07-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
19S.04W.01.214	04-28-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
19S.04W.01.3234	04-27-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
20S.02W.01.343	05-04-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
20S.02W.02.1444	05-04-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
SAN JUAN COUNTY

LOCAL								SPF-	
I-FIER	STATION	NUMBER	COUNTY	SITE	DATE	TIME	LOGIC UNIT	OF HOLE,** TOTAL (FEET) (72001)	CONDUCTANCE (US/CM) (00095)
GW AT GALLEGOS CAN AT UPST	362723108001501	045	GW	07-25-94	1415	110AVMB	E2.0	1090	
LEAKING WELL NR WATERFLOW,	364527108352001	045	GW	07-27-94	1215	--	--	E9310*	
GW AT PUMP CANYON AT HWY 1	364704107440701	045	GW	07-18-94	1320	110AVMB	E2.0	3000	
GW AT GOBERNADOR WASH AT H	364747107423001	045	GW	07-18-94	1030	110AVMB	E2.0	4080	
GW AT SIMON CAN WASH AT SJ	364923107393501	045	GW	07-18-94	1215	110AVMB	E2.0	803	
GW AT SIMON CAN WASH AT SJ	364923107393501	045	GW	08-02-94	1330	110AVMB	E2.0	--	

LOCAL IDENT- I- FIER	DATE	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
GW AT GALLEGOS CAN	07-25-94	8.5	28.0	627	2.7	---	---	---	---
LEAKING WELL NR WA	07-27-94	E7.6*	---	---	---	130	21	19	2300
GW AT PUMP CANYON	07-18-94	7.3	25.0	---	1.8	---	---	---	---
GW AT GOBERNADOR W	07-18-94	7.1	23.5	625	2.8	---	---	---	---
GW AT SIMON CAN WA	07-18-94	7.4	24.0	---	1.9	---	---	---	---
GW AT SIMON CAN WA	08-02-94	---	---	---	---	---	---	---	---

LOCAL IDENT- I- FIER	DATE	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
GW AT GALLEGOS CAN	07-25-94	---	---	---	---	---	---	---
LEAKING WELL NR WA	07-27-94	88	9.2	2520	330	1700	0.30	5990
GW AT PUMP CANYON	07-18-94	---	---	---	---	---	---	---
GW AT GOBERNADOR W	07-18-94	---	---	---	---	---	---	---
GW AT SIMON CAN WA	07-18-94	---	---	---	---	---	---	---
GW AT SIMON CAN WA	08-02-94	---	---	---	---	---	---	---

LOCAL IDENT- I- FIER	DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)
GW AT GALLEGOS CAN	07-25-94	---	---	---	---	---	---	---
LEAKING WELL NR WA	07-27-94	5890	5	1100	<1.0	<1	<1	<1
GW AT PUMP CANYON	07-18-94	---	---	---	---	---	---	---
GW AT GOBERNADOR W	07-18-94	---	---	---	---	---	---	---
GW AT SIMON CAN WA	07-18-94	---	---	---	---	---	---	---
GW AT SIMON CAN WA	08-02-94	---	---	---	---	---	---	---

LOCAL IDENT- I- FIER	DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
GW AT GALLEGOS CAN	07-25-94	---	---	10	---	---	-49.8	-6.68
LEAKING WELL NR WA	07-27-94	<0.1	<1	<1	200	<10	-94.6	-12.56
GW AT PUMP CANYON	07-18-94	---	---	<1	---	---	-64.8	-9.31
GW AT GOBERNADOR W	07-18-94	---	---	<1	---	---	-77.7	-9.62
GW AT SIMON CAN WA	07-18-94	---	---	<1	---	---	---	---
GW AT SIMON CAN WA	08-02-94	---	---	---	---	---	-53.1	-8.48

* Field value estimated from lab value

** Depth estimated at dug hole in dry channel

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
SIERRA COUNTY

LOCAL IDENT- I- FIER	STATION	NUMBER	COUNTY	SITE	DATE	TIME	GEO- LOGIC UNIT	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
17S.04W.06.324	325121107172601	051	GW	05-07-94	1140	110ALVM	9.50	20.85	4140	
17S.04W.29.3433	324738107165201	051	GW	04-26-94	0930	110ALVM	6.16	16.94	4118	
17S.05W.1.4244	325123107175701	051	GW	05-03-94	0940	110ALVM	8.20	21.83	4140	
17S.05W.13.22	325002107181201	051	GW	04-19-94	1420	110ALVM	7.80	20.27	4135	
17S.05W.13.24	324955107180901	051	GW	04-19-94	1020	110ALVM	6.62	17.49	4135	
17S.05W.24.314A	324855107184601	051	GW	04-26-94	1340	110ALVM	11.02	22.87	4135	
17S.05W.36.4221	324714107180201	051	GW	04-25-94	1000	110ALVM	10.11	18.32	4110	
19S.03W.15.243	323926107075101	051	GW	05-06-94	0930	110ALVM	5.61	21.50	4040	

LOCAL IDENT- I- FIER	DATE	DEPTH OF HOLE, TOTAL (FEET) (72001)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CaCO3) (00900)
17S.04W.06.324	05-07-94	21	1450	7.5	25.0	18.5	657	0.2	360
17S.04W.29.3433	04-26-94	17	1840	7.5	12.0	16.0	650	0.2	350
17S.05W.1.4244	05-03-94	22	1930	7.4	11.5	18.0	655	0.2	620
17S.05W.13.22	04-19-94	20	1200	7.4	24.5	18.0	654	0.1	290
17S.05W.13.24	04-19-94	17	1490	7.4	30.0	16.0	656	0.2	420
17S.05W.24.314A	04-26-94	23	2180	7.1	23.0	19.0	649	1.1	490
17S.05W.36.4221	04-25-94	18	1000	7.4	10.5	15.0	651	4.2	300
19S.03W.15.243	05-06-94	22	1890	7.3	18.0	18.5	656	0.1	470

LOCAL IDENT- I- FIER	DATE	HARD- NESS NONCARB DISSOLV FLD. AS CaCO3 (MG/L) (00904)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg) (00925)	SODIUM, DIS- SOLVED (MG/L AS Na) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD HCO3 (00453)	ALKA- LITY WAT DIS TOT IT FIELD CaCO3 (39086)
17S.04W.06.324	05-07-94	76	110	20	190	4	6.9	343	281
17S.04W.29.3433	04-26-94	0	100	24	260	6	16	510	419
17S.05W.1.4244	05-03-94	200	200	30	200	3	7.4	516	423
17S.05W.13.22	04-19-94	45	96	13	140	4	3.7	303	248
17S.05W.13.24	04-19-94	100	130	24	170	4	5.5	389	319
17S.05W.24.314A	04-26-94	61	150	28	300	6	5.8	523	429
17S.05W.36.4221	04-25-94	83	97	15	100	2	5.1	270	221
19S.03W.15.243	05-06-94	25	140	30	240	5	7.4	546	448

LOCAL IDENT- I- FIER	DATE	ALKA- LITY LAB (MG/L AS CaCO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)
17S.04W.06.324	05-07-94	280	300	120	1.0	0.31	19	910	951
17S.04W.29.3433	04-26-94	413	370	120	2.6	0.27	21	1130	1200
17S.05W.1.4244	05-03-94	406	470	130	0.60	0.40	22	1350	1320
17S.05W.13.22	04-19-94	248	200	77	0.90	0.15	28	776	765
17S.05W.13.24	04-19-94	315	330	100	0.80	0.26	24	1010	985
17S.05W.24.314A	04-26-94	424	510	120	1.1	0.50	28	1500	1490
17S.05W.36.4221	04-25-94	221	200	72	0.70	0.14	12	664	640
19S.03W.15.243	05-06-94	442	430	110	1.2	0.36	33	1300	1260

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
SIERRA COUNTY -- Continued

LOCAL IDENT- IFIER	DATE	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
17S.04W.06.324	05-07-94	3.14	0.060	3.20	3.20	0.020	0.20	0.18	<0.010
17S.04W.29.3433	04-26-94	6.70	0.100	6.80	6.80	0.020	0.30	0.28	<0.010
17S.05W.1.4244	05-03-94	--	<0.010	--	<0.050	0.100	<0.20	--	<0.010
17S.05W.13.22	04-19-94	12.9	0.100	13.0	13.0	<0.010	0.20	--	<0.010
17S.05W.13.24	04-19-94	1.98	0.020	2.00	2.00	<0.010	0.20	--	<0.010
17S.05W.24.314A	04-26-94	18.9	0.090	19.0	19.0	0.020	0.30	0.28	0.040
17S.05W.36.4221	04-25-94	--	<0.010	1.20	1.20	0.020	<0.20	--	0.020
19S.03W.15.243	05-06-94	--	<0.010	--	<0.050	0.310	1.2	0.89	0.130

LOCAL IDENT- IFIER	DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	PHENOLS TOTAL (UG/L) (32730)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)
17S.04W.06.324	05-07-94	0.010	1.4	<1	<0.02	3	<1	2	78
17S.04W.29.3433	04-26-94	0.010	3.7	<1	<0.02	<1	<1	1	33
17S.05W.1.4244	05-03-94	0.010	2.4	<1	<0.02	<1	<1	<1	100
17S.05W.13.22	04-19-94	0.010	2.8	<1	0.02	2	<1	2	69
17S.05W.13.24	04-19-94	0.010	3.3	<1	0.02	1	<1	1	52
17S.05W.24.314A	04-26-94	0.050	3.6	<1	<0.02	<1	<1	3	43
17S.05W.36.4221	04-25-94	<0.010	2.1	<1	<0.02	1	<1	<1	66
19S.03W.15.243	05-06-94	0.050	3.4	<1	<0.02	<1	<1	<1	69

LOCAL IDENT- IFIER	DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
17S.04W.06.324	05-07-94	<1	<1.0	1	<1	4	<3	<1	470
17S.04W.29.3433	04-26-94	<1	<1.0	5	<1	3	7	<1	230
17S.05W.1.4244	05-03-94	<1	<1.0	5	<1	4	1200	<1	>1000
17S.05W.13.22	04-19-94	<1	<1.0	4	<1	1	3	<1	28
17S.05W.13.24	04-19-94	<1	<1.0	3	<1	3	8	<1	250
17S.05W.24.314A	04-26-94	<1	<1.0	7	<1	5	<3	<1	110
17S.05W.36.4221	04-25-94	<1	<1.0	3	<1	2	5	<1	1
19S.03W.15.243	05-06-94	<1	<1.0	5	<1	6	1900	<1	>1000

LOCAL IDENT- IFIER	DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS AS NAT U (UG/L) (75986)	ALPHA RADIO. WATER DISS AS TH-230 (FCI/L) (04126)
17S.04W.06.324	05-07-94	12	1	<1	<1.0	2	33	5.6	24
17S.04W.29.3433	04-26-94	38	2	1	<1.0	2	67	10	47
17S.05W.1.4244	05-03-94	7	2	<1	<1.0	3	20	5.2	15
17S.05W.13.22	04-19-94	9	2	<1	<1.0	2	8.3	2.5	6.0
17S.05W.13.24	04-19-94	11	2	<1	<1.0	2	13	3.7	8.7
17S.05W.24.314A	04-26-94	10	3	7	<1.0	5	34	7.9	25
17S.05W.36.4221	04-25-94	6	2	<1	<1.0	2	5.0	1.7	3.4
19S.03W.15.243	05-06-94	12	1	<1	<1.0	4	0.8	1.2	<0.6

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SIERRA COUNTY -- Continued

LOCAL IDENT- IFIER	DATE	ALPHA COUNT, 2 SIGMA WAT DIS AS (TH-230 (PCI/L) (75987)	GROSS BETA, DIS- SOLVED AS (PCI/L) (03515)	BETA, 2 SIGMA WATER, DISS, AS (CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED AS (PCI/L) (AS SR/ Y-90) (80050)	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L) (75988)	RADON 222 TOTAL (PCI/L) (82303)	RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
17S.04W.06.324	05-07-94	4.0	22	4.1	17	3.1	--	--	34
17S.04W.29.3433	04-26-94	7.6	39	6.7	29	5.0	290	23	62
17S.05W.1.4244	05-03-94	3.8	16	4.2	12	3.1	440	23	16
17S.05W.13.22	04-19-94	1.8	7.6	2.3	5.8	1.7	250	19	6.0
17S.05W.13.24	04-19-94	2.6	13	3.2	9.3	2.4	250	19	10
17S.05W.24.314A	04-26-94	5.7	19	4.7	14	3.6	260	22	26
17S.05W.36.4221	04-25-94	1.2	7.6	2.1	5.7	1.5	260	25	4.0
19S.03W.15.243	05-06-94	0.86	11	3.4	7.9	2.5	--	--	<1.0

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS

LOCAL IDENT- I- FIER	STATION	NUMBER	COUNTY	DATE	GEO- LOGIC UNIT	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)
17S.04W.06.324	325121107172601		051	05-07-94	110ALVM	9.50	<0.015	<0.008	<0.008	<0.008
17S.04W.29.3433	324738107165201		051	04-26-94	110ALVM	6.16	<0.015	<0.008	<0.008	<0.008
17S.05W.1.4244	325123107175701		051	05-03-94	110ALVM	8.20	<0.015	<0.008	<0.008	<0.008
17S.05W.13.22	325002107181201		051	04-19-94	110ALVM	7.80	<0.015	<0.008	<0.008	0.009
17S.05W.13.24	324955107180901		051	04-19-94	110ALVM	6.62	<0.015	<0.008	<0.008	<0.008
17S.05W.24.314A	324855107184601		051	04-26-94	110ALVM	11.02	<0.015	<0.008	<0.008	<0.008
17S.05W.36.4221	324714107180201		051	04-25-94	110ALVM	10.11	<0.015	<0.008	<0.008	<0.008
19S.03W.15.243	323926107075101		051	05-06-94	110ALVM	5.61	<0.015	<0.008	<0.008	<0.008

LOCAL IDENT- IFIER	DATE	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER, DISS, REC (UG/L) (04095)	DI- BROMO- METHANE WATER WHOLE RECOVER (UG/L) (30217)	DI- CHLORO- BROMO- METHANE TOTAL (UG/L) (32101)	CARBON- TETRA- CHLO- RIDE TOTAL (UG/L) (32102)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	BROMO- FORM TOTAL (UG/L) (32104)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)
17S.04W.06.324	05-07-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
17S.04W.29.3433	04-26-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
17S.05W.1.4244	05-03-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
17S.05W.13.22	04-19-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
17S.05W.13.24	04-19-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
17S.05W.24.314A	04-26-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
17S.05W.36.4221	04-25-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
19S.03W.15.243	05-06-94	<0.005	<0.013	<0.008	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

LOCAL IDENT- IFIER	DATE	CHLORO- FORM TOTAL (UG/L) (32106)	PHENOLS TOTAL (UG/L) (32730)	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	CHLORO- BENZENE TOTAL (UG/L) (34301)	CHLORO- ETHANE TOTAL (UG/L) (34311)	ETHYL- BENZENE TOTAL (UG/L) (34371)	METHYL- BROMIDE TOTAL (UG/L) (34413)
17S.04W.06.324	05-07-94	<0.2	<1	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2
17S.04W.29.3433	04-26-94	<0.2	<1	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2
17S.05W.1.4244	05-03-94	<0.2	<1	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2
17S.05W.13.22	04-19-94	<0.2	<1	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2
17S.05W.13.24	04-19-94	<0.2	<1	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2
17S.05W.24.314A	04-26-94	<0.2	<1	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2
17S.05W.36.4221	04-25-94	<0.2	<1	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2
19S.03W.15.243	05-06-94	<0.2	<1	<0.2	<0.2	<0.007	<0.20	<0.2	<0.2	<0.2

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SIERRA COUNTY -- Continued

ORGANIC COMPOUND DATA

LOCAL IDENT- IFIER	DATE	METHYL- CHLO- RIDE TOTAL (UG/L) (34418)	METHYL- ENE CHLO- RIDE TOTAL (UG/L) (34423)	TETRA- CHLO- ETHYL- ENE TOTAL (UG/L) (34475)	TRI- CHLO- FLURO- METHANE TOTAL (UG/L) (34488)	1,1-DI- CHLO- ETHANE TOTAL (UG/L) (34496)	1,1-DI- CHLO- ETHYL- ENE TOTAL (UG/L) (34501)	1,1,1- TRI- CHLO- ETHANE TOTAL (UG/L) (34506)	1,1,2- TRI- CHLO- ETHANE TOTAL (UG/L) (34511)	1,1,2,2 TETRA- CHLO- WAT UNF REC (UG/L) (34516)
17S.04W.06.324	05-07-94	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
17S.04W.29.3433	04-26-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
17S.05W.1.4244	05-03-94	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
17S.05W.13.22	04-19-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
17S.05W.13.24	04-19-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
17S.05W.24.314A	04-26-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
17S.05W.36.4221	04-25-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
19S.03W.15.243	05-06-94	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

LOCAL IDENT- IFIER	DATE	BENZENE O- CHLO- WATER UNFLTRD REC (UG/L) (34536)	1,2-DI- CHLO- PROPANE TOTAL (UG/L) (34541)	1,2- TRANS DI CHLO- ETHENE TOTAL (UG/L) (34546)	BENZENE 1,2,4- TRI- CHLO- WAT UNF REC (UG/L) (34551)	BENZENE 1,3-DI- CHLO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLO- WATER UNFLTRD REC (UG/L) (34571)	P, P' DDE DISSOLV (UG/L) (34653)	DI- CHLO- DI- FLURO- METHANE TOTAL (UG/L) (34668)	NAPHTH- ALENE TOTAL (UG/L) (34696)
17S.04W.06.324	05-07-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2
17S.04W.29.3433	04-26-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2
17S.05W.1.4244	05-03-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2
17S.05W.13.22	04-19-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2
17S.05W.13.24	04-19-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2
17S.05W.24.314A	04-26-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2
17S.05W.36.4221	04-25-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2
19S.03W.15.243	05-06-94	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.010	<0.2	<0.2

LOCAL IDENT- IFIER	DATE	TRANS- 1,3-DI- CHLO- PROPENE TOTAL (UG/L) (34699)	CIS 1,3-DI- CHLO- PROPENE TOTAL (UG/L) (34704)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	TRI- CHLO- ETHYL- ENE TOTAL (UG/L) (39180)	LINDANE DIS- SOLVED (UG/L) (39341)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)
17S.04W.06.324	05-07-94	<0.2	<0.2	<0.02	<0.008	<0.2	<0.2	<0.011	<0.008	<0.009
17S.04W.29.3433	04-26-94	<0.2	<0.2	<0.02	<0.008	<0.2	<0.2	<0.011	<0.008	<0.009
17S.05W.1.4244	05-03-94	<0.2	<0.2	<0.02	<0.008	<0.2	<0.2	<0.011	<0.008	<0.009
17S.05W.13.22	04-19-94	<0.2	<0.2	0.02	<0.008	<0.2	<0.2	<0.011	<0.008	0.260
17S.05W.13.24	04-19-94	<0.2	<0.2	0.02	<0.008	<0.2	<0.2	<0.011	<0.008	<0.009
17S.05W.24.314A	04-26-94	<0.2	<0.2	<0.02	<0.008	<0.2	<0.2	<0.011	<0.008	<0.009
17S.05W.36.4221	04-25-94	<0.2	<0.2	<0.02	<0.008	<0.2	<0.2	<0.011	<0.008	<0.009
19S.03W.15.243	05-06-94	<0.2	<0.2	<0.02	<0.008	<0.2	<0.2	<0.011	<0.008	<0.009

LOCAL IDENT- IFIER	DATE	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	HEXA- CHLO- RIDE ADIENE TOTAL (UG/L) (39702)	ALA- CHLO- RIDE, WATER, DISS, REC, (UG/L) (46342)	CIS-1,2 DI- CHLO- ETHENE WATER TOTAL (UG/L) (77093)	STYRENE TOTAL (UG/L) (77128)	1,1-DI CHLO- PRO- FENE, WAT, WH TOTAL (UG/L) (77168)
17S.04W.06.324	05-07-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2
17S.04W.29.3433	04-26-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2
17S.05W.1.4244	05-03-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2
17S.05W.13.22	04-19-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2
17S.05W.13.24	04-19-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2
17S.05W.24.314A	04-26-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2
17S.05W.36.4221	04-25-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2
19S.03W.15.243	05-06-94	<0.014	<0.022	<0.008	<0.017	<0.2	<0.009	<0.2	<0.2	<0.2

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SIERRA COUNTY -- Continued

ORGANIC COMPOUND DATA

LOCAL IDENT- I- FIER	DATE	2,2-DI CHLORO- PRO- PANE WAT, WH TOTAL (UG/L) (77170)	1,3-DI- CHLORO- PROPANE WAT, WH TOTAL (UG/L) (77173)	PSEUDO- CUMENE WATER UNFLTRD REC (UG/L) (77222)	ISO- PROPYL- BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	MESIT- YLENE WATER UNFLTRD REC (UG/L) (77226)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	METHANE BROMO CHLORO- WAT UNFLTRD REC (UG/L) (77297)
17S.04W.06.324	05-07-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
17S.04W.29.3433	04-26-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
17S.05W.1.4244	05-03-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
17S.05W.13.22	04-19-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
17S.05W.13.24	04-19-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
17S.05W.24.314A	04-26-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
17S.05W.36.4221	04-25-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
19S.03W.15.243	05-06-94	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20

LOCAL IDENT- I- FIER	DATE	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE SEC BUTYL- WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT- BUTYL- WATER UNFLTRD REC (UG/L) (77353)	P-ISO- PROPYL- TOLUENE WATER WHOLE REC (UG/L) (77356)	123-TRI CHLORO- PROPANE WATER WHOLE TOTAL (UG/L) (77443)	ETHANE, 1112- TETRA- CHLORO- WAT UNF REC (UG/L) (77562)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)
17S.04W.06.324	05-07-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2
17S.04W.29.3433	04-26-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2
17S.05W.1.4244	05-03-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2
17S.05W.13.22	04-19-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2
17S.05W.13.24	04-19-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2
17S.05W.24.314A	04-26-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2
17S.05W.36.4221	04-25-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2
19S.03W.15.243	05-06-94	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.2

LOCAL IDENT- I- FIER	DATE	METHYL ETHER TERT- BUTYL WAT UNF REC (UG/L) (78032)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	BROMO- BENZENE WATER, WHOLE TOTAL (UG/L) (81555)	DIBROMO CHLORO- PROPANE WATER WHOLE TOT REC (UG/L) (82625)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DIMETH- OATE WATER FLT 0.7 U GG, REC (UG/L) (82662)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
17S.04W.06.324	05-07-94	<0.2	<0.20	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
17S.04W.29.3433	04-26-94	<0.2	<0.20	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
17S.05W.1.4244	05-03-94	<0.2	<0.20	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
17S.05W.13.22	04-19-94	<0.2	<0.20	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
17S.05W.13.24	04-19-94	<0.2	<0.20	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
17S.05W.24.314A	04-26-94	<0.2	<0.20	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
17S.05W.36.4221	04-25-94	<0.2	<0.20	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013
19S.03W.15.243	05-06-94	<0.2	0.70	<0.2	<1.0	<0.012	<0.006	<0.012	<0.024	<0.013

LOCAL IDENT- I- FIER	DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
17S.04W.06.324	05-07-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007
17S.04W.29.3433	04-26-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007
17S.05W.1.4244	05-03-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007
17S.05W.13.22	04-19-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007
17S.05W.13.24	04-19-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007
17S.05W.24.314A	04-26-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007
17S.05W.36.4221	04-25-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007
19S.03W.15.243	05-06-94	<0.011	<0.030	<0.039	<0.035	<0.005	<0.009	<0.015	<0.007

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

SIERRA COUNTY -- Continued

ORGANIC COMPOUND DATA

LOCAL IDENT- I- FIER	DATE	ETHO- PROP WATER FLTRD 0.7 U	BEN- FLUR- ALIN WAT FLD 0.7 U	CARBO- FURAN WATER FLTRD 0.7 U	TER- BUFOS WATER FLTRD 0.7 U	PRON- AMIDE WATER FLTRD 0.7 U	DISUL- FOTON WATER FLTRD 0.7 U	TRIAL- LATE WATER FLTRD 0.7 U	PRO- PANIL WATER FLTRD 0.7 U
		GF, REC (UG/L) (82672)	GF, REC (UG/L) (82673)	GF, REC (UG/L) (82674)	GF, REC (UG/L) (82675)	GF, REC (UG/L) (82676)	GF, REC (UG/L) (82677)	GF, REC (UG/L) (82678)	GF, REC (UG/L) (82679)
17S.04W.06.324	05-07-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
17S.04W.29.3433	04-26-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
17S.05W.1.4244	05-03-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
17S.05W.13.22	04-19-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.010	<0.008	<0.016
17S.05W.13.24	04-19-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.010	<0.008	<0.016
17S.05W.24.314A	04-26-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
17S.05W.36.4221	04-25-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016
19S.03W.15.243	05-06-94	<0.012	<0.013	<0.013	<0.012	<0.009	<0.060	<0.008	<0.016

LOCAL IDENT- I- FIER	DATE	CAR- BARYL WATER FLTRD 0.7 U	THIO- BENCARB WATER FLTRD 0.7 U	DCPA WATER FLTRD 0.7 U	PENDI- METH- ALIN WAT FLT 0.7 U	NAPROP- AMIDE WATER FLTRD 0.7 U	PRO- PARGITE WATER FLTRD 0.7 U	METHYL AZIN- PHOS WAT FLT 0.7 U	PER- METHRIN CIS WAT FLT 0.7 U
		GF, REC (UG/L) (82680)	GF, REC (UG/L) (82681)	GF, REC (UG/L) (82682)	GF, REC (UG/L) (82683)	GF, REC (UG/L) (82684)	GF, REC (UG/L) (82685)	GF, REC (UG/L) (82686)	GF, REC (UG/L) (82687)
17S.04W.06.324	05-07-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
17S.04W.29.3433	04-26-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
17S.05W.1.4244	05-03-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
17S.05W.13.22	04-19-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
17S.05W.13.24	04-19-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
17S.05W.24.314A	04-26-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
17S.05W.36.4221	04-25-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016
19S.03W.15.243	05-06-94	<0.046	<0.008	<0.004	<0.018	<0.010	<0.008	<0.05	<0.016

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Bacteria, definition of.....	18	Dark Canyon Draw at Carlsbad.....	325
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Bland Canyon near Cochiti Pueblo (crest).....	402	Drainage area, definition of.....	15
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