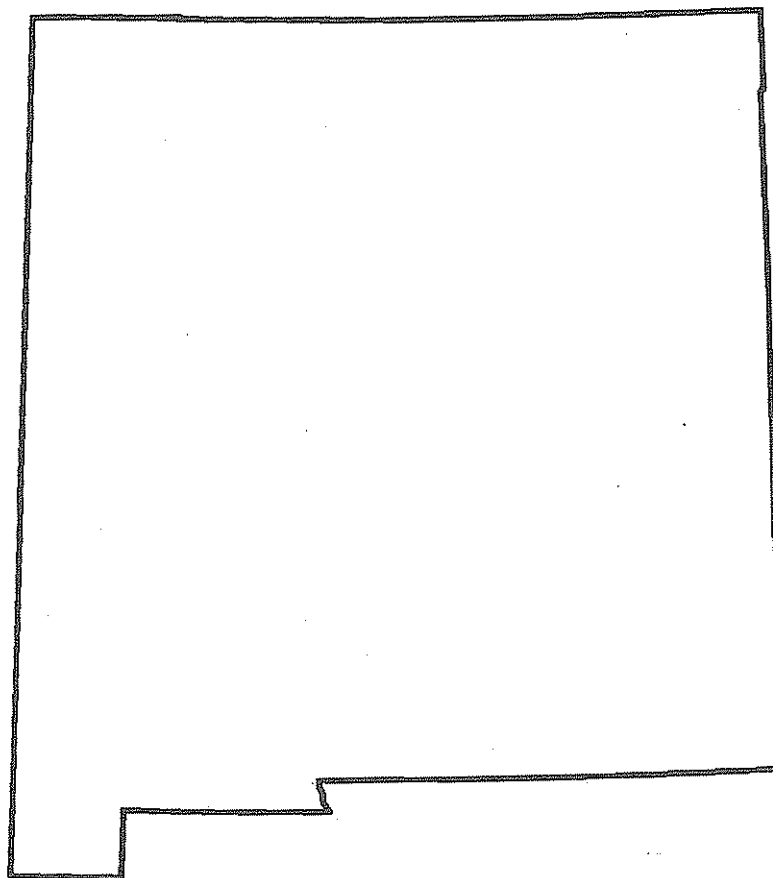




Water Resources Data New Mexico Water Year 1992



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NM-92-1
Prepared in cooperation with the State of New Mexico
and with other agencies

CALENDAR FOR WATER YEAR 1992

1991

OCTOBER

NOVEMBER

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1992

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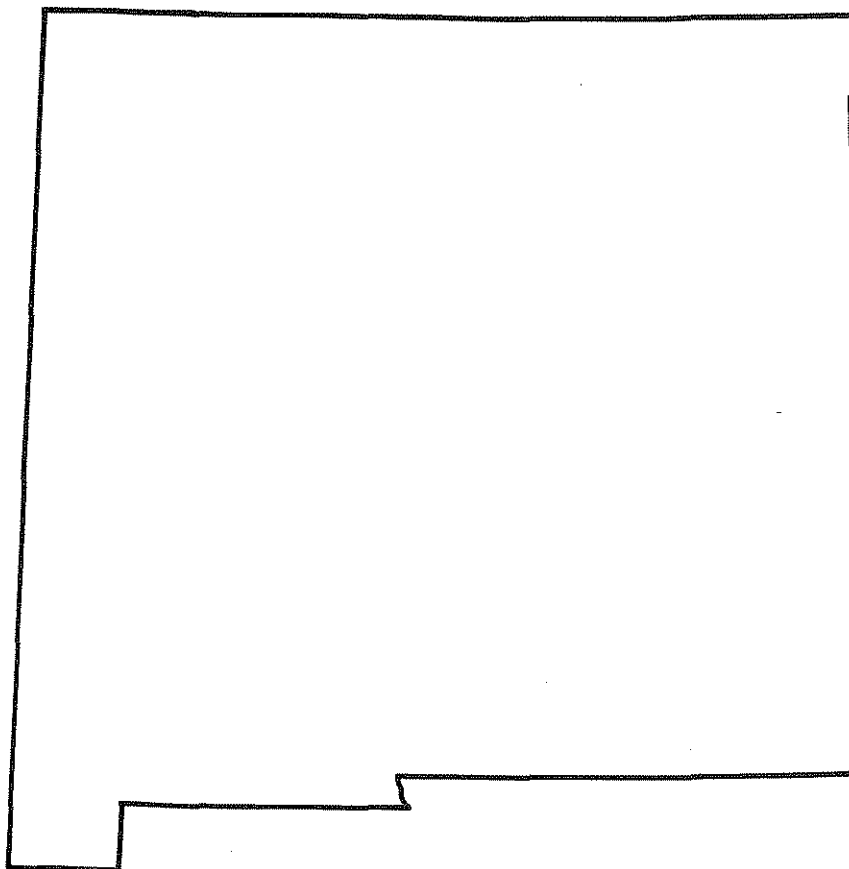
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Water Resources Data New Mexico Water Year 1992

by R.R. Cruz, R.K. DeWittes, D.E. Funderburg, R.L. Lepp, D. Ortiz,
and D. Shaul



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NM-92-1
Prepared in cooperation with the State of New Mexico
and with other agencies

U.S. DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

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PREFACE

The annual hydrologic data report of New Mexico is one of a series of annual reports that document hydrologic data derived 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 selected, 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 conforms to Geological Survey policy and established guidelines. The following individuals contributed significantly to the completion of the report:

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This report was prepared in cooperation with the State of New Mexico and other agencies under the supervision of William K. Livingston, District Chief, New Mexico, and James F. Blakey, Regional Hydrologist, Central Region.

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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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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
ARKANSAS 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
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	08254400		1987-88
Latir Creek Outflow Lake	08254425		1986-88
Costilla Creek near Amalia, NM	08254500	152	1949-59, 1961-81
Ute Creek near Amalia, NM	08255000	12	1949-59
Mesa ditch near Garcia, CO	08256500	--	1944-65, 1969-83
Middle ditch at Garcia, CO	08257000	--	1944-56
Association ditch at Costilla, NM	08258500	--	1955-71
Cerro Canal near Jaroso, CO	08259000	--	1944-72
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
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

Station name	Station number	Drainage area (mi ²)	Period of record
RIO GRANDE BASIN -- Continued			
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
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

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS -- Continued

Station name	Station number	Drainage area (mi ²)	Period of record
RIO GRANDE BASIN -- Continued			
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
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

Station name	Station number	Drainage area (mi ²)	Period of record
RIO GRANDE BASIN -- Continued			
Rito de los Frijoles near Los Alamos, NM	08313300	8.9	1959-63
Rito de los Frijoles in Bandelier National Monument, NM	08313350*	17.5	1963-69, 1977-82
Cochiti East Side Main Canal near Cochiti, NM	08313500	--	1936-37, 1954-60
Sili Main Canal near Cochiti, NM	08314000	--	1937-39, 1954-60
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
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

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS -- Continued

Station name	Station number	Drainage area (mi ²)	Period of record
RIO GRANDE BASIN -- Continued			
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 below Bluewater Dam, NM	08341500	201	1951-63
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
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
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

Station name	Station number	Drainage area (mi ²)	Period of record
RIO GRANDE BASIN -- Continued			
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 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 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
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

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS -- Continued

Station name	Station number	Drainage area (mi ²)	Period of record
RIO GRANDE BASIN -- Continued			
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
Rio Fresno 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

Station name	Station number	Drainage area (mi ²)	Period of record
TULAROSA VALLEY -- Continued			
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-sle-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
Puerco River near Church Rock, NM	09395350	193	1978-82
Puerco River at Gallup, NM	09395500*	558	1940-46, 1977-82
Whitewater Arroyo near Cheechilgeetho, NM	09395700	78.5	1964-67

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS -- Continued

Station name	Station number	Drainage area (mi ²)	Period of record
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. Daily records of (c) chemical, (m) microbiological, (s) sediment, or (t) 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 near Park View, NM	08284500	193	c,s	1962-65
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

DISCONTINUED SURFACE-WATER-QUALITY STATIONS -- Continued

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record
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
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
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
Pecos River below Sumner 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
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
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
Navajo River above Chromo, CO	09344300	96.4	s	1962-65
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

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record
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
La Plata River at Colorado-New Mexico State line	09366500	331	b,c,m,s	1970-73
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
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
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 185 gaging stations and contents for 27 lakes and reservoirs; water quality for 64 gaging stations, 8 partial-record stations, and 37 wells; and water levels at 126 observation wells. Also included are 110 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. Three seepage investigations were made during the year. 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-92-1." 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, E.L. Martinez, State Engineer.

New Mexico Interstate Stream Commission, E.L. Martinez, Secretary.

Pecos River Commission, W.E. Hale, Federal representative and Chairman;
Walter Gerrells, Commissioner for New Mexico;
B.L. Moody, Commissioner for Texas.

New Mexico State Highway and Transportation Department, Louis Medrano, Secretary.

Canadian River Municipal Water Authority, John C. Williams, General Manager.

Costilla Creek Compact Commission, E.L. Martinez, Commissioner for New Mexico;
Hal Simpson, Commissioner for Colorado.

Albuquerque Metropolitan Arroyo Flood Control Authority, L.A. Blair,
Executive Engineer.

City of Albuquerque, Louis E. Saavedra, Mayor.

Rio San Jose Flood Control District, Michael W. Shaw, Chairman.

City of Santa Rosa, Alfredo Chavez Jr., Mayor.

City of Raton, Michael Colangelo, Mayor.

Village of Ruidoso, Ronald Wicker, 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 15 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 1992

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.

Water was plentiful during the early months of water year 1992 across the State of New Mexico. Precipitation and snowpack from October through December were above average at most reporting stations in the State. By February the snowpack, as measured by snow water content, had declined in the San Juan and Canadian River basins, while increases in snowpack were reported in the San Francisco, Gila, Mimbres, and Rio Hondo basins. Precipitation, beginning in March, varied throughout the State, but continued to be at or above average in most areas with the exception of the Canadian River basin. Precipitation in the Canadian River basin in April had declined to 15 percent of normal. As the water year entered the months of May, June, and July, precipitation recording stations throughout the State reported average rainfall in May and then below normal amounts in June and July. The trend of declining precipitation continued, and by the end of water year 1992 most recording stations had reported precipitation 50 percent or more below normal.

Streamflow in New Mexico has been near normal or greater than normal since 1979. The increased streamflows in evidence at the end of water year 1991 continued into the beginning of water year 1992. Decreases in streamflow were later reported in some areas of the State by July. Specifically, discharges recorded in October on the Pecos (station 08378500), Delaware (08408500), and Gila (station 09430500) Rivers were 223, 146, and 85 percent of normal, respectively. During the subsequent winter months, when discharges generally decline, discharges at all reporting index stations remained above normal. In particular, the gaging station Gila River near Gila measured runoff in December and January that was 587 percent and 490 percent of the median, respectively. Partially in response to lower-than-normal precipitation streamflows had declined in July to 136 percent of normal for the Gila station. The Pecos index station recorded flows only 76 percent of normal in July. Streamflows stabilized near normal at most of the index stations for the balance of the water year. However, the Delaware River declined markedly to near 30 percent of normal in August and September.

Discharges for water year 1992 at four index streamflow-gaging stations compared with median annual discharge for water years 1962-91 at the same stations are listed below:

Station number	Station name	Median annual discharge in acre-ft	Annual mean discharge in acre-ft	1992 discharge as a percentage of median
		water years 1962-91	water year 1992	
08276500	Rio Grande below Taos Junction Bridge	517,900	498,800	96
08378500	Pecos River near Pecos	66,870	100,700	151
08408500	Delaware River near Red Bluff	5,330	3,650	68
09430500	Gila River near Gila	108,000	240,600	223

Reservoir storage of the State's surface waters at the beginning of water year 1992 ranged from near to less-than-normal levels. These levels varied slightly during the water year. One exception was the combined storage of Elephant Butte and Caballo Reservoirs which was 66 percent of capacity at the end of October. Storage gradually increased to 75 percent by March and jumped dramatically to 94 percent in April. Storage decreased with time, ending water year 1992 at 75 percent of capacity. In contrast to the fluctuations in storage recorded at Elephant Butte and Caballo Reservoirs, storage at Conchas Lake remained steady, varying from 96 percent to 86 percent of capacity during the water year.

The combined storage of 13 major reservoirs in the State increased by 52,000 acre-feet during water year 1992 totaling 4,777,000 acre-feet by September 30, 1992. The total combined capacity of these 13 reservoirs is 8,530,000 acre-feet.

Surface-Water Quality

Dissolved-solids concentrations 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 1992 at selected daily stations compared with median values of specific conductance for water years 1982-91 at the same stations are listed below:

Station number	Station name	Median specific conductance, in microsiemens per centimeter at 25 °Celsius		1992 median as a percentage of 1982-91 median
		water years 1982-91	water year 1992	
08313000	Rio Grande at Otowi Bridge	315	343	109
08330000	Rio Grande at Albuquerque	396	396	100
08354900	Rio Grande FW at San Acacia	629	593	94
08396500	Pecos River near Artesia	7,500	5,460	73
09364500	Animas River at Farmington	525	526	100

Suspended-sediment loads for water year 1992 at three index stations compared with median suspended-sediment loads for water years 1982-91 at the same stations are listed below:

Station number	Station name	Median suspended-sediment load, in tons		1992 load as a percentage of 1982-91 median
		water years 1982-91	water year 1992	
08313000	Rio Grande at Otowi	1,463,300	2,479,284	169
08330000	Rio Grande at Albuquerque	609,550	593,411	97
08396500	Pecos River near Artesia	331,055	165,778	50

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.

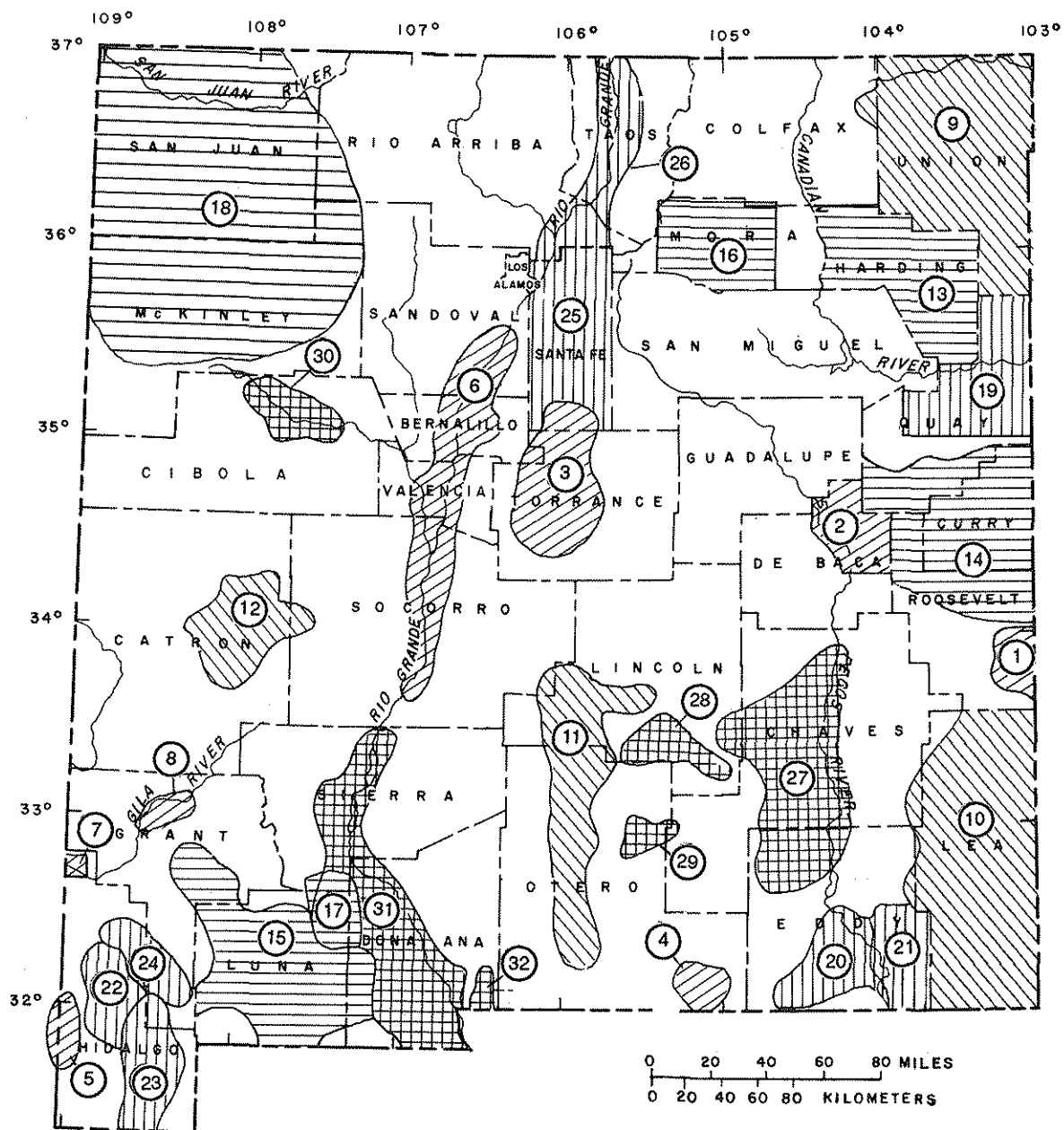
SPECIAL NETWORKS AND PROGRAMS

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 500 or so sites 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 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 are stations 07227140, Canadian River above New Mexico-Texas State line; 08251500, Rio Grande near Lobatos, CO; 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, Rio Grande below Old Fort Quitman, TX; 08384500, Pecos River below Sumner Dam; 08407500, Pecos River near Red Bluff; 08477110, Mimbres River at Mimbres; 08481500, Tularosa Creek near Bent; 09364500, Animas River at Farmington; 09368000, San Juan River at Shiprock; and 09431500, Gila River near Redrock.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity. Included in this program are the hydrologic bench-mark stations.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States. Included in this program 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; 09368000, San Juan River at Shiprock; and 09431500, Gila River near Redrock.



EXPLANATION

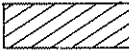

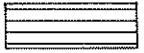

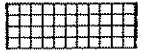
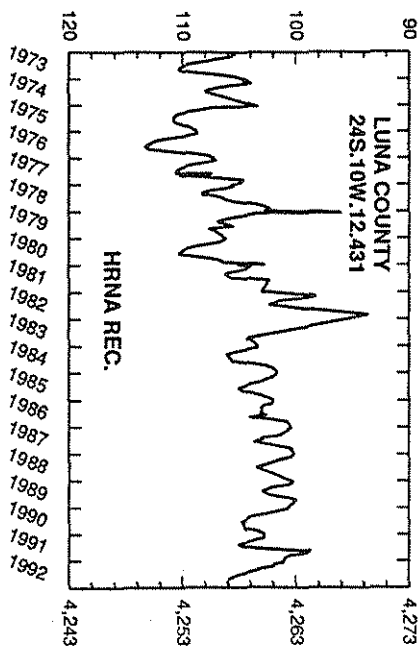
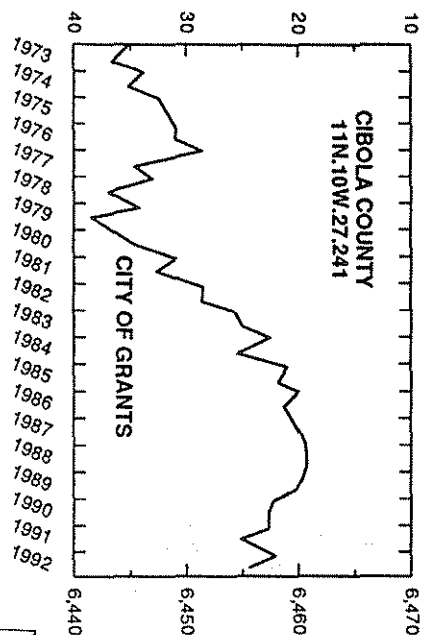
				
1990/1995	1991/1996	1992/1997	1988/1993	1989/1994
1. CAUSEY-LINGO	9. N. HIGH PLAINS	13. HARDING COUNTY	19. LOWER CANADIAN	27. ROSWELL BASIN
2. FT. SUMNER	10. LEA COUNTY- HIGH PLAINS,	14. CURRY COUNTY- HOUSE-PORTALES	20. CARLSBAD	28. RIO HONDO
3. ESTANCIA	CAPITAN BASIN	15. MIMBRES BASIN	21. CAPITAN REEF	29. RIO PENASCO
4. SALT BASIN	11. TULAROSA BASIN	16. MORA AREA	22. ANIMAS	30. GRANTS-BLUEWATER
5. SAN SIMON	12. SAN AGUSTIN PLAINS	17. NUTT-HOCKETT	23. PLAYAS	31. LOWER RIO GRANDE
6. MIDDLE RIO GRANDE		18. SAN JUAN BASIN	24. LORDSBURG	32. HUECO
7. VIRDEN			25. SANTA FE COUNTY	
8. GILA RIVER			26. UPPER RIO GRANDE	

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

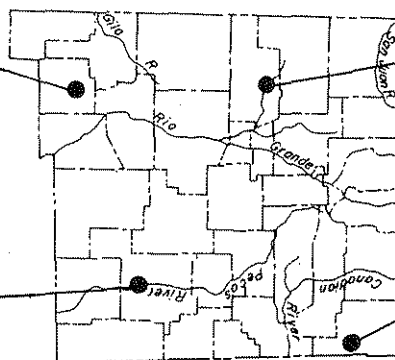
WATER LEVEL, IN FEET
BELOW LAND SURFACE



WATER LEVEL, IN FEET
BELOW LAND SURFACE

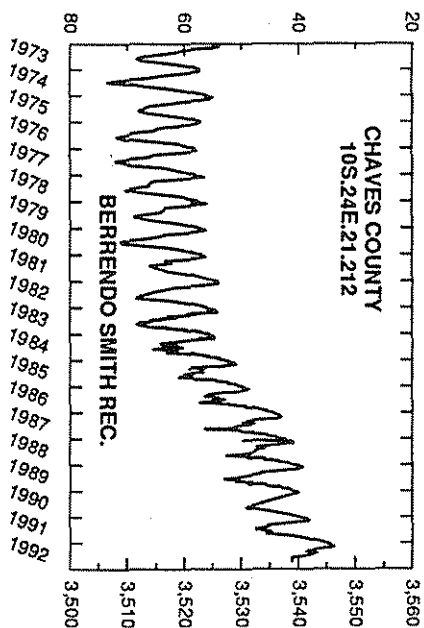


WATER LEVEL, IN FEET
ABOVE SEA LEVEL

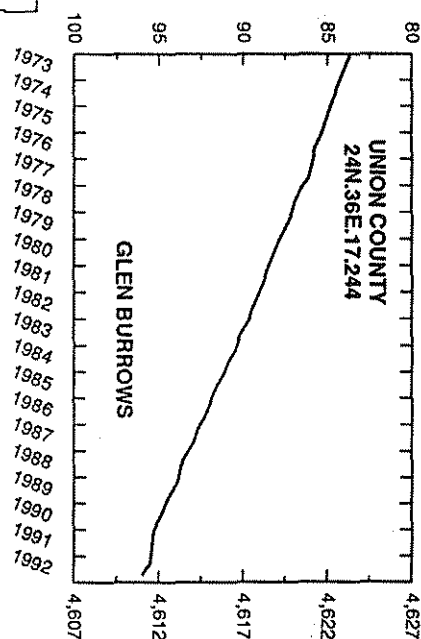


WATER LEVEL, IN FEET
ABOVE SEA LEVEL

WATER LEVEL, IN FEET
BELOW LAND SURFACE



WATER LEVEL, IN FEET
BELOW LAND SURFACE



WATER LEVEL, IN FEET
ABOVE SEA LEVEL

WATER LEVEL, IN FEET
ABOVE SEA LEVEL

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

WATER RESOURCES DATA FOR NEW MEXICO, WATER YEAR 1992

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 or near the State lines. Data for major inorganic constituents, nutrients, dissolved oxygen, and bacteria are collected at all these stations. Data for trace elements, radiochemicals, and pesticides are collected at some of these stations. Included in this network are stations 07221500, Canadian River near Sanchez; 08276500, Rio Grande below Taos Junction Bridge, near Taos; 08313000, Rio Grande at Otowi Bridge, near San Ildefonso; 08319000, Rio Grande at San Felipe; 08331000, Rio Grande at Isleta; 08354800, Rio Grande Conveyance Channel at San Acacia; 08354900, 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.

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.

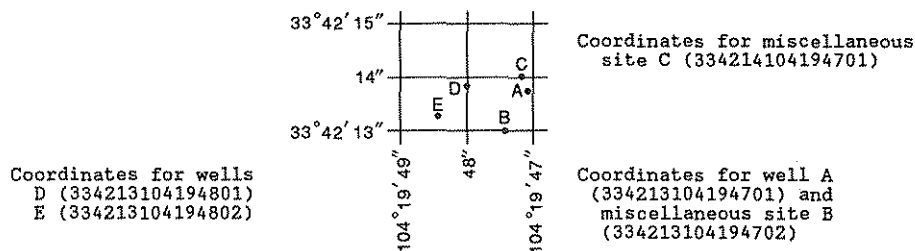


Figure 3.--System for numbering wells, springs, and miscellaneous sites.

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

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 or lake content. Comments to follow clarify information presented under the various headings of the station description.

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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.

The daily table for stream-gaging stations gives mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month may also be 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 are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years.

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 an unusual source, 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-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various 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.

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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.

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 record, 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.

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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.

Data Presentation

The records of ground-water 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 identified by well number. The prime identification number for wells sampled is the 15-digit number derived from 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, coccal 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 used interchangeably with the more general term "stage," although gage height is more appropriate when used with a 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 (CaCO₃).

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.

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 (m²), 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.

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.

Bed load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section 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 emerged 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 planimeted. All areas shown are those for the stage when the planimeted 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.....	<u>Hexagenia</u>
Species.....	<u>Hexagenia limbata</u>

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 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.

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 sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. 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.
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Figure 4.—Location of hydrologic units.

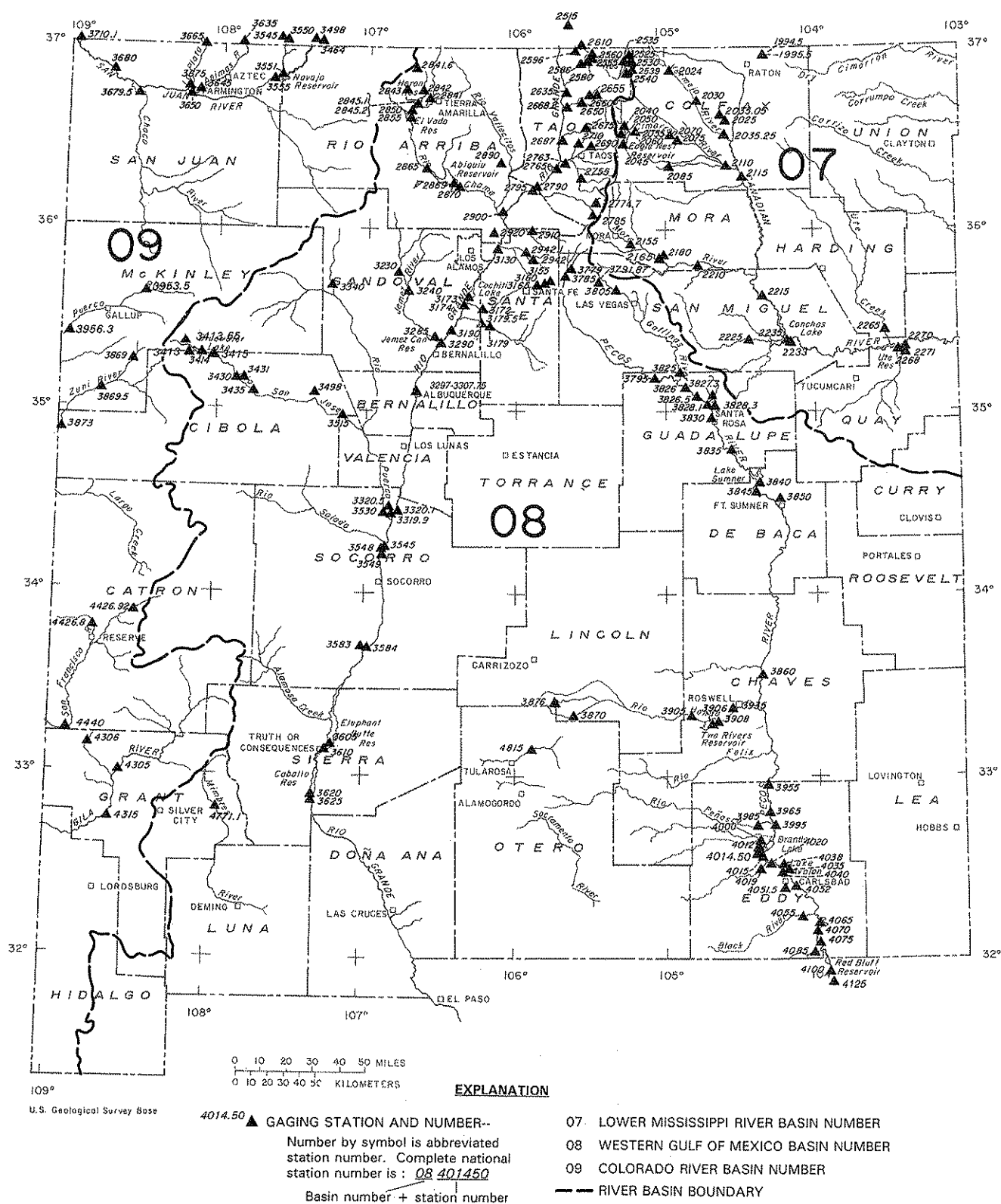


Figure 5.--Location of surface-water gaging stations.

<u>STATION AND SAMPLING FREQUENCY</u>		
CHEMICAL QUALITY:	▲ Daily	▲ Other than daily
SUSPENDED SEDIMENT:	△ Daily	△ Other than daily
CHEMICAL QUALITY AND SUSPENDED SEDIMENT:	▲ Both daily ▼ Daily chemical quality and other than daily suspended sediment	▼ Both other than daily ▲ Daily suspended sediment and other than daily chemical quality

07 LOWER MISSISSIPPI RIVER BASIN NUMBER
08 WESTERN GULF OF MEXICO BASIN NUMBER
09 COLORADO RIVER BASIN NUMBER
RIVER BASIN BOUNDARY:
STATION AND NUMBER--Number by symbol is
abbreviated station number. Complete national
station number is: 09 395381
Basin number + station number

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, 3,750 acre-ft, Apr. 13, elevation, 7,511.47 ft; minimum contents, 2,270 acre-ft, many days.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2290	2280	2340	2430	2520	2750	3620	3680	3300	e3700	3690	3700
2	2290	2270	2340	2430	2520	2770	3670	3620	3320	e3710	3690	3700
3	2290	2280	2340	2430	2540	2780	3720	3570	3340	e3710	3690	3700
4	2290	2280	2350	2440	2540	2800	3740	3510	3360	e3710	3690	3690
5	2290	2280	2350	2440	2540	2810	3740	3450	3380	e3710	3690	3690
6	2290	2280	2360	2450	2550	2830	3740	3390	3400	e3710	3690	3680
7	2290	2270	2360	2450	2550	2850	3740	3330	3480	e3710	3680	3670
8	2290	2270	2360	2450	2560	2870	3740	3270	3510	e3710	3680	3660
9	2290	2270	2370	2450	2560	2890	3740	3210	3570	e3710	3680	3650
10	2290	2270	2370	2450	2570	2920	3740	3150	3620	e3710	3710	3650
11	2290	2270	2380	2460	2570	2930	3740	3100	3650	e3710	3700	3640
12	2290	2270	2380	2470	2580	2950	3740	3070	3690	e3710	3700	3640
13	2280	2270	2390	2470	2580	2970	3750	3080	3710	e3710	3700	3640
14	2280	2270	2390	2470	2590	3000	3740	3090	3710	e3710	3700	3640
15	2280	2270	2390	2480	2590	3030	3740	3100	3710	e3710	3690	3640
16	2280	2280	2400	2480	2600	3070	3750	3110	3710	e3710	3690	3630
17	2280	2280	2400	2480	2610	3100	3740	3120	3700	e3710	3720	3630
18	2280	2280	2400	2480	2610	3130	3740	3120	3700	e3710	3710	3630
19	2280	2290	2400	2480	2620	3150	3730	3130	3700	e3710	3700	3630
20	2280	2290	2400	2490	2630	3170	3730	3130	3700	e3710	3700	3630
21	2280	2300	2410	2490	2630	3200	3740	3140	3700	e3710	3700	3620
22	2280	2300	2410	2490	2640	3220	3730	3140	e3700	e3710	3700	3620
23	2280	2300	2410	2490	2650	3250	3730	3150	e3700	3710	3690	3620
24	2280	2310	2410	2500	2660	3270	3730	3170	e3700	3710	3720	3620
25	2280	2310	2410	2500	2670	3300	3730	3180	e3710	3700	3720	3620
26	2280	2320	2410	2500	2690	3320	3730	3190	e3710	3700	3710	3620
27	2280	2320	2420	2500	2700	3370	3730	3200	e3710	3700	3710	3620
28	2270	2320	2420	2500	2720	3430	3730	3210	e3710	3700	3700	3620
29	2270	2330	2420	2510	2740	3470	3720	3220	e3710	3690	3700	3620
30	2270	2330	2420	2510	---	3510	3720	3240	e3700	3690	3700	3620
31	2280	---	2420	2510	---	3570	---	3260	---	3690	3700	---
MAX	2290	2330	2420	2510	2740	3570	3750	3680	3710	3710	3720	3700
MIN	2270	2270	2340	2430	2520	2750	3620	3070	3300	3690	3680	3620
(†)	7498.08	7998.64	7499.55	7500.42	7502.60	7510.00	7511.23	7507.36	---	7511.01	7511.10	7510.44
(††)	-10	+50	+90	+90	+230	+830	+150	-460	+440	-10	+10	-80
(†††)	0	19	18	35	13	108	156	175	151	176	127	115
(††††)	0	0	0	0	0	0	177	771	20	0	0	60

CAL YR 1991 MAX 2530 MIN 2220 (††) +160 (†††) 1456 (††††) 175
WTR YR 1992 MAX 3750 MIN 2270 (††) +1330 (†††) 1093 (††††) 1028

(†) 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

e Estimated

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 of dam on Chicorica Creek, 4.4 mi northeast of Raton, and at mile 19.2.

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, 73 acre-ft, Apr. 30, May 31, 1983, elevation, 7,090 ft; minimum observed, 0 acre-ft, Aug., Sept. 1989, lake drained.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
07199550 LAKE ALICE NEAR RATON, NM			
Sept. 30, 1991.....	7,089.60	71	0
Oct. 31.....	7,089.60	71	0
Nov. 30.....	7,089.60	61	-10
Dec. 31.....	7,089.60	0	-61
CAL YR 1991	-	-	+71
Jan. 32, 1992.....		0	0
Feb. 29.....		10	+10
Mar. 31.....	7,089	40	+30
Apr. 30.....	7,089	40	0
May 31.....	7,089	40	0
June 30.....	7,089	40	0
July 31.....	7,089	40	0
Aug. 31.....		0	-40
Sept. 30.....		0	0
WTR YR 1992	-	0	0

ARKANSAS RIVER BASIN

07202400 VERMEJO RIVER AT VERMEJO PARK, NM

LOCATION.--Lat 37°57'28", long 105°07'25", Colfax County, Hydrologic Unit 11080001, in Maxwell Grant, on left bank 0.2 mi upstream from Gold Creek, and 12 mi northwest of Vermejo Park.

DRAINAGE AREA.--36.7 mi².

PERIOD OF RECORD.--October 1985 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 8,240 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 460 ft³/s, June 23, 1986, gage height, 4.21 ft, from rating curve extended above 60 cfs; minimum recorded, 2.9 ft³/s, Oct. 19, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 70 ft³/s, July 23, gage height, 2.94 ft, minimum recorded 3.5 ft³/s, Oct. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	---	---	---	---	---	---	---	35	15	9.2	6.7
2	7.1	---	---	---	---	---	---	---	33	15	10	6.4
3	6.8	---	---	---	---	---	---	---	31	14	9.6	6.3
4	6.6	---	---	---	---	---	---	---	30	15	8.6	6.0
5	6.6	---	---	---	---	---	---	---	32	14	8.9	5.7
6	6.6	---	---	---	---	---	---	---	31	13	9.3	5.7
7	6.5	---	---	---	---	---	---	---	28	12	8.6	5.4
8	6.4	---	---	---	---	---	---	---	29	13	8.2	5.3
9	6.3	---	---	---	---	---	---	---	34	13	8.4	5.0
10	6.3	---	---	---	---	---	---	---	36	13	9.6	5.1
11	6.2	---	---	---	---	---	---	---	30	13	9.9	5.0
12	6.1	---	---	---	---	---	---	---	28	13	9.6	4.7
13	6.0	---	---	---	---	---	---	---	26	13	9.5	4.6
14	5.9	---	---	---	---	---	---	---	25	12	11	5.0
15	5.9	---	---	---	---	---	---	---	24	12	9.1	5.1
16	5.8	---	---	---	---	---	---	---	23	11	8.1	4.6
17	5.6	---	---	---	---	---	---	---	22	11	9.5	4.4
18	5.6	---	---	---	---	---	---	---	21	11	8.2	4.4
19	5.6	---	---	---	---	---	---	---	21	12	7.9	5.4
20	5.7	---	---	---	---	---	---	---	21	12	9.5	4.7
21	5.7	---	---	---	---	---	---	---	20	15	9.9	4.6
22	5.5	---	---	---	---	---	---	---	17	20	8.2	4.6
23	5.5	---	---	---	---	---	---	---	30	19	7.5	4.4
24	5.5	---	---	---	---	---	---	---	32	19	14	4.2
25	5.5	---	---	---	---	---	---	---	27	19	12	4.0
26	5.4	---	---	---	---	---	---	24	19	19	12	4.3
27	5.5	---	---	---	---	---	---	24	18	15	10	4.2
28	5.5	---	---	---	---	---	---	28	18	13	8.3	4.2
29	5.1	---	---	---	---	---	---	28	17	11	7.3	4.4
30	e4.5	---	---	---	---	---	---	36	16	10	7.1	4.4
31	e4.5	---	---	---	---	---	---	34	---	9.6	7.1	---
TOTAL	183.8	---	---	---	---	---	---	---	745	402.6	286.1	148.8
MEAN	5.93	---	---	---	---	---	---	---	24.8	13.0	9.23	4.96
MAX	8.0	---	---	---	---	---	---	---	36	19	14	6.7
MIN	4.5	---	---	---	---	---	---	---	16	9.6	7.1	4.0
AC-FT	365	---	---	---	---	---	---	---	1480	799	567	295

e Estimated

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.9	2.9	2.9	2.5	9.5	10	15	16	7.4	18	.00
2	1.1	2.1	e2.0	2.3	2.9	9.3	21	27	16	4.2	11	.00
3	.62	2.1	e2.5	2.9	2.9	8.5	30	36	12	2.7	7.6	.00
4	.45	2.1	e2.5	3.6	2.7	9.0	30	37	7.9	2.1	5.2	.00
5	.35	2.3	e3.0	3.1	3.0	9.1	41	36	8.6	1.6	4.2	.00
6	.26	3.9	3.6	3.1	3.6	9.0	60	38	8.1	1.3	14	.00
7	.33	4.2	3.3	3.5	3.8	8.2	57	40	80	1.1	4.9	.00
8	.50	3.3	3.6	3.3	4.2	8.1	68	41	86	.96	4.6	.00
9	.47	3.2	3.4	3.8	4.0	8.3	82	40	36	.96	4.7	.54
10	.42	3.1	2.8	3.0	3.7	7.8	83	39	26	.93	5.6	8.8
11	.52	3.3	1.6	2.5	4.1	6.7	81	41	.66	35	27	8.4
12	.94	4.0	5.3	3.5	4.1	7.2	74	41	.00	54	35	6.4
13	1.2	3.7	3.7	2.2	3.6	6.7	72	30	.00	44	16	5.1
14	.97	3.4	3.1	2.0	4.1	6.9	72	9.4	.00	15	36	3.5
15	.76	3.5	3.6	2.4	4.4	7.3	64	6.2	.00	9.0	45	2.7
16	1.2	4.1	3.3	2.7	4.8	7.4	49	4.0	.00	5.9	27	2.2
17	1.4	5.5	3.9	2.9	4.8	7.4	47	3.9	1.1	4.7	12	2.4
18	1.4	5.4	2.8	3.6	4.6	8.5	42	3.9	11	4.4	27	1.6
19	1.6	4.8	3.9	3.1	5.2	7.7	41	2.5	8.4	3.2	41	1.1
20	1.6	4.4	4.0	3.4	6.5	6.9	36	1.5	6.5	3.0	25	.89
21	1.4	5.7	4.0	3.5	6.5	6.6	35	1.2	4.6	17	12	.94
22	1.5	3.8	4.2	3.5	6.4	7.1	32	1.3	5.0	46	8.2	.80
23	1.7	3.0	4.1	3.5	6.7	7.7	28	1.9	4.6	42	6.1	.63
24	1.8	4.2	3.9	3.4	6.8	7.1	24	5.8	4.6	4.7	7.3	.61
25	1.9	4.7	4.7	3.4	6.9	5.3	23	5.5	4.2	3.3	29	.51
26	1.9	3.7	3.9	3.4	7.0	3.9	23	3.3	4.2	3.2	28	.38
27	2.1	3.7	2.7	3.4	7.1	3.5	21	4.3	41	3.0	.02	.28
28	1.8	3.5	3.1	3.4	13	4.3	20	5.0	15	2.9	.00	.24
29	1.4	4.0	3.4	3.4	11	5.6	19	4.6	13	11	.00	.38
30	1.8	2.8	3.3	3.3	---	6.1	17	7.9	10	9.9	.00	.26
31	1.8	---	3.7	3.0	---	5.8	---	14	---	9.8	.00	---
TOTAL	36.59	109.4	105.8	97.0	150.9	222.5	1302	547.2	430.46	354.25	461.42	48.66
MEAN	1.18	3.65	3.41	3.13	5.20	7.18	43.4	17.7	14.3	11.4	14.9	1.62
MAX	2.1	5.7	5.3	3.8	13	9.5	83	41	86	54	45	8.8
MIN	.26	1.9	1.6	2.0	2.5	3.5	10	1.2	.00	.93	.00	.00
AC-FT	73	217	210	192	299	441	2580	1090	854	703	915	97
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1991, BY WATER YEAR (WY)

	MEAN	2.01	1.95	1.61	1.53	2.34	5.11	9.31	18.2	11.1	6.78	10.7	4.31
MAX	7.06	5.14	5.83	6.36	12.0	24.6	68.7	81.9	46.9	32.0	43.9	12.8	
(WY)	1985	1947	1947	1987	1987	1983	1984	1984	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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1945 - 1991

ANNUAL TOTAL	1328.69	3866.18	
ANNUAL MEAN	3.64	10.6	6.66
HIGHEST ANNUAL MEAN			17.8
LOWEST ANNUAL MEAN			1.51
HIGHEST DAILY MEAN	64	86	217
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		150	
INSTANTANEOUS PEAK STAGE		3.95	
ANNUAL RUNOFF (AC-FT)	2640	7670	4820
10 PERCENT EXCEEDS	6.8	36	15
50 PERCENT EXCEEDS	1.5	4.1	1.0
90 PERCENT EXCEEDS	.00	.65	.00

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.

PERIOD OF RECORD.--October 1915 to July 1918, April 1919 to May 1921, January 1927 to current year. Monthly 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e26	11	e13	e21	e9.5	6.8	14	29	62	20	23	e11
2	e25	15	e10	e19	e9.0	7.1	14	30	61	19	25	e15
3	e23	15	e11	e16	e9.0	6.5	13	32	55	19	25	e13
4	e22	17	e13	e17	7.3	7.6	12	34	52	18	27	e13
5	e21	20	e15	e15	13	9.1	13	33	48	20	27	e12
6	e20	17	e14	e13	16	7.8	13	32	48	18	26	e11
7	e20	16	e15	e12	16	7.2	13	32	49	15	26	e10
8	e19	15	e15	e14	15	7.1	13	33	48	14	27	e10
9	e18	15	e15	e16	16	7.0	13	32	58	14	26	e9.5
10	e17	15	e15	e13	16	6.4	14	31	62	16	120	e10
11	e15	17	16	e15	12	6.7	16	31	53	19	81	e9.0
12	e15	17	e15	e15	13	6.1	18	28	86	17	74	e9.0
13	e15	14	e14	e12	8.6	6.0	19	29	53	16	104	e9.0
14	e14	16	e12	e10	6.6	6.1	23	29	45	15	e130	e9.0
15	e14	16	e10	e9.1	11	6.9	29	27	40	14	e95	e10
16	e12	18	e15	e8.5	8.0	7.8	32	27	37	14	e82	e9.5
17	e13	17	e17	e10	10	7.5	29	26	35	17	e96	e13
18	e12	17	e15	e9.0	11	7.2	28	27	33	17	116	e10
19	e11	17	e13	e14	7.3	7.8	29	25	31	16	183	e10
20	e11	17	e15	e10	7.7	7.6	27	23	48	16	68	e10
21	e10	15	e18	e9.0	9.3	7.3	22	23	42	33	63	e10
22	e8.0	17	e18	e10	8.6	10	21	25	32	78	53	e11
23	e7.0	e15	e17	e9.0	6.8	11	20	59	30	52	48	e11
24	e7.0	e14	e15	e10	9.2	11	20	64	29	82	76	11
25	e7.0	16	e12	e9.0	9.4	9.8	21	53	29	39	108	12
26	e8.0	17	e18	e10	8.8	9.5	23	47	29	37	63	14
27	e8.5	16	e18	e11	7.8	9.4	23	45	28	36	55	14
28	e9.0	16	e17	e10	8.3	11	24	47	31	28	e40	14
29	e11	17	e15	e12	7.9	11	26	54	28	27	e38	14
30	e14	15	e12	e10	---	11	28	62	22	25	e21	13
31	14	---	e7.0	e10	---	12	---	69	---	24	e25	---
TOTAL	446.5	480	445.0	378.6	298.1	255.3	610	1138	1304	795	1971	337.0
MEAN	14.4	16.0	14.4	12.2	10.3	8.24	20.3	36.7	43.5	25.6	63.6	11.2
MAX	26	20	18	21	16	12	32	69	86	82	183	15
MIN	7.0	11	7.0	8.5	6.6	6.0	12	23	22	14	21	9.0
AC-FT	886	952	883	751	591	506	1210	2260	2590	1580	3910	668
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1992, BY WATER YEAR (WY)

	MEAN	8.63	6.43	5.16	5.11	6.24	6.56	21.3	48.4	34.6	29.3	39.8	16.8
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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1916 - 1992
ANNUAL TOTAL	10669.7	8458.5	
ANNUAL MEAN	29.2	23.1	18.6
HIGHEST ANNUAL MEAN			89.0
LOWEST ANNUAL MEAN			2.05
HIGHEST DAILY MEAN	416	Aug 13	2340
LOWEST DAILY MEAN	3.3	Feb 20	.00
ANNUAL SEVEN-DAY MINIMUM	3.5	Mar 9	.00
INSTANTANEOUS PEAK FLOW		759	Aug 10
INSTANTANEOUS PEAK STAGE		5.93	Aug 10
INSTANTANEOUS LOW FLOW		2.3	Feb 19
ANNUAL RUNOFF (AC-FT)	21160	16780	13470
10 PERCENT EXCEEDS	63	48	44
50 PERCENT EXCEEDS	15	15	7.3
90 PERCENT EXCEEDS	4.6	8.5	1.7

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	e13	e10	e6.0	9.3	6.7	12	31	e70	28	e32	36
2	22	e15	e12	e4.0	9.6	7.2	12	32	e70	24	e34	27
3	19	e17	e17	e6.0	11	7.1	11	35	e62	22	e36	21
4	19	e19	e16	e10	7.7	7.8	10	41	e54	23	e38	19
5	18	e22	e17	e10	7.1	9.1	11	36	e54	24	e38	18
6	18	e18	e18	9.6	6.3	7.8	11	34	e56	20	e38	16
7	18	e17	e18	e10	6.7	6.9	10	33	e54	17	e38	15
8	17	e15	e18	e6.0	6.1	6.6	10	34	e56	15	e40	14
9	16	e16	e18	e6.0	7.2	6.9	11	34	e62	15	e44	11
10	15	e15	e19	e6.0	7.2	6.6	12	31	e70	16	e55	10
11	15	e17	e18	e10	7.2	5.5	13	31	e62	18	e60	11
12	14	e17	e15	e6.0	5.9	6.5	16	28	e96	17	43	9.6
13	14	e16	e16	e2.0	7.0	6.5	16	28	72	16	e52	9.4
14	14	e14	e15	e2.0	6.5	6.1	19	30	e52	15	e18	8.5
15	13	e14	e10	e1.5	5.9	6.2	28	26	e44	14	e15	11
16	13	e18	e9.0	e1.5	6.5	6.6	35	26	e40	26	e18	12
17	13	e18	e9.0	e1.5	6.5	6.6	32	24	e38	20	e25	10
18	12	e17	e10	e2.0	8.3	6.9	30	25	e34	18	28	7.8
19	12	e17	14	e2.0	5.6	6.2	33	23	e36	17	21	8.4
20	13	e17	e12	e1.5	6.5	5.4	31	21	e56	17	1.1	9.1
21	13	e15	e10	e1.5	9.2	5.4	24	20	e46	47	1.1	10
22	12	e17	e12	e1.5	7.5	8.1	19	26	e40	80	1.2	9.4
23	11	e15	e10	e1.5	7.0	9.2	18	e54	e38	e90	1.2	7.5
24	11	e14	e8.0	e1.0	6.3	8.3	18	e70	e36	93	2.6	6.6
25	11	e16	e6.0	e2.0	6.2	7.3	19	e58	37	51	1.4	5.7
26	11	e17	e6.0	e2.0	7.0	6.9	21	e50	37	62	1.4	5.6
27	12	e16	10	e1.5	7.6	6.7	22	e48	36	49	1.5	5.9
28	12	e16	6.0	e1.5	7.2	8.7	23	e50	e42	e40	18	5.6
29	e12	e17	7.4	e1.5	6.6	9.1	25	e58	e40	e38	43	5.6
30	e16	e15	e6.0	e4.0	---	8.8	28	e70	36	e36	40	5.0
31	e16	---	e6.0	e6.0	---	9.5	---	e75	---	e34	44	---
TOTAL	454	490	378.4	127.6	208.7	223.2	580	1182	1526	1002	829.5	350.7
MEAN	14.6	16.3	12.2	4.12	7.20	7.20	19.3	38.1	50.9	32.3	26.8	11.7
MAX	22	22	19	10	11	9.5	35	75	96	93	60	36
MIN	11	13	6.0	1.0	5.6	5.4	10	20	34	14	1.1	5.0
AC-FT	901	972	751	253	414	443	1150	2340	3030	1990	1650	696
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1992, BY WATER YEAR (WY)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	10.2	8.12	5.23	3.98	4.65	9.84	21.3	28.5	30.7	23.6	29.3	16.5
MAX	17.3	16.3	12.2	8.01	8.89	48.6	111	62.0	77.2	52.8	51.3	40.5
(WY)	1987	1992	1992	1989	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	5.99
(WY)	1990	1985	1988	1988	1988	1981	1981	1981	1981	1989	1989	1983

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1981 - 1992

ANNUAL TOTAL	7072.54	7352.1	
ANNUAL MEAN	19.4	20.1	16.4
HIGHEST ANNUAL MEAN			26.9
LOWEST ANNUAL MEAN			8.48
HIGHEST DAILY MEAN	190	96	229
LOWEST DAILY MEAN	.98	1.0	.00
ANNUAL SEVEN-DAY MINIMUM	.99	1.4	.00
ANNUAL RUNOFF (AC-FT)	14030	14580	11860
10 PERCENT EXCEEDS	44	44	42
50 PERCENT EXCEEDS	14	15	8.4
90 PERCENT EXCEEDS	1.5	5.8	1.9

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.

DRAINAGE AREA.--486 mi².

PERIOD OF RECORD.--November 1983 to current year.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.4	2.1	2.3	2.2	2.2	2.9	1.6	4.1	3.3	1.2	4.9
2	1.7	1.3	2.1	2.3	2.2	2.3	2.4	1.4	4.1	2.0	1.1	4.4
3	1.7	1.3	2.1	2.3	2.3	2.4	2.2	1.4	3.5	1.5	.96	4.0
4	1.6	1.3	1.9	2.2	2.2	2.4	2.0	1.6	3.0	1.4	.88	3.8
5	1.6	1.4	1.9	2.3	2.1	2.9	1.8	1.5	2.9	1.5	.89	3.7
6	1.6	1.6	2.1	2.6	2.1	2.8	1.7	1.6	2.7	1.3	1.1	3.4
7	1.5	1.5	2.1	e2.5	2.1	2.5	1.6	1.7	3.8	1.0	.97	2.8
8	1.5	1.3	2.1	e2.3	2.1	2.3	1.6	1.8	4.0	.83	.69	2.8
9	1.4	1.2	2.3	e2.2	2.0	2.3	1.5	1.9	3.9	.86	.57	2.9
10	1.3	1.2	2.2	e2.2	2.1	2.3	1.5	1.9	4.2	.74	.73	2.8
11	1.2	1.5	2.4	2.3	2.0	2.2	1.4	1.8	3.2	.75	117	2.8
12	1.2	1.7	2.9	2.4	1.9	2.1	1.5	2.0	2.4	.67	63	2.6
13	1.2	1.6	2.8	3.6	2.0	2.1	1.5	2.2	4.9	.62	359	2.5
14	1.1	1.5	2.9	3.4	2.1	2.1	1.4	2.1	2.4	.52	79	2.4
15	1.0	1.7	2.7	3.3	1.9	1.9	1.4	2.2	1.9	.63	67	2.7
16	1.0	2.8	2.6	3.1	1.9	1.7	1.5	2.1	1.5	2.0	45	3.2
17	1.0	3.0	2.0	2.9	2.1	1.7	1.4	1.7	1.2	4.1	56	3.1
18	.91	2.8	2.2	2.5	2.0	1.8	1.3	1.6	1.1	3.2	669	3.0
19	.88	3.0	2.3	3.1	1.9	2.0	1.4	1.5	1.0	1.9	370	2.8
20	.90	2.5	2.7	3.0	1.9	2.0	1.4	1.2	1.1	2.0	101	2.8
21	.93	2.2	2.7	3.0	1.8	2.1	1.4	1.2	1.4	5.6	73	2.8
22	.52	2.1	2.8	2.8	1.8	2.2	1.3	1.4	1.9	12	52	2.8
23	.54	2.1	2.8	3.1	1.9	2.2	1.3	19	1.8	47	40	3.2
24	.53	2.0	2.6	2.3	1.7	2.4	1.3	12	1.7	23	54	3.2
25	.61	2.0	2.6	2.0	1.8	2.3	1.4	7.1	1.6	7.8	138	3.0
26	.65	2.2	2.5	2.0	1.8	2.2	1.4	4.3	1.4	3.9	77	2.6
27	.67	2.2	2.5	2.1	1.8	2.2	1.5	4.2	1.2	3.0	67	2.5
28	.68	2.2	2.4	2.1	2.0	2.2	1.5	5.3	1.5	2.3	37	2.3
29	.65	2.2	2.4	2.1	2.2	2.1	1.5	5.3	47	1.8	7.3	2.2
30	.87	2.1	2.3	2.1	---	2.1	1.6	11	6.8	1.6	5.3	2.0
31	1.2	---	2.4	2.1	---	2.5	---	5.6	---	1.4	5.3	---
TOTAL	33.84	56.9	74.4	78.5	57.9	68.5	47.6	111.2	123.2	140.22	2490.99	90.0
MEAN	1.09	1.90	2.40	2.53	2.00	2.21	1.59	3.59	4.11	4.52	80.4	3.00
MAX	1.7	3.0	2.9	3.6	2.3	2.9	2.9	19	47	47	669	4.9
MIN	.52	1.2	1.9	2.0	1.7	1.7	1.3	1.2	1.0	.52	.57	2.0
AC-FT	67	113	148	156	115	136	94	221	244	278	4940	179
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1992, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	2.28	3.10	2.71	2.60	3.04	2.65	2.25	20.7	17.5
MAX	4.25	5.12	5.22	3.98	5.10	4.93	4.29	89.9	77.9
(WY)	1985	1985	1985	1985	1985	1987	1987	1987	1987
MIN	.48	1.13	1.54	1.32	1.51	1.18	.59	1.63	.17
(WY)	1991	1991	1991	1984	1984	1991	1991	1986	1990

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1984 - 1992

ANNUAL TOTAL	1987.86	3373.25	
ANNUAL MEAN	5.45	9.22	
HIGHEST ANNUAL MEAN			7.36
LOWEST ANNUAL MEAN			19.2
HIGHEST DAILY MEAN	579	Aug 14	1.85
LOWEST DAILY MEAN	.02	Jun 27	1060
ANNUAL SEVEN-DAY MINIMUM	.05	Jul 4	.00
INSTANTANEOUS PEAK FLOW			.00
INSTANTANEOUS PEAK STAGE			.00
INSTANTANEOUS LOW FLOW			7300
ANNUAL RUNOFF (AC-FT)	3940	6690	9.49
10 PERCENT EXCEEDS	4.4	4.9	Jun 10 1988
50 PERCENT EXCEEDS	1.5	2.1	Jun 22 1990
90 PERCENT EXCEEDS	.39	1.1	Jun 28 1990

ARKANSAS RIVER BASIN

07204000 MORENO CREEK AT EAGLE NEST, NM

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

DRAINAGE AREA.--73.8 mi².

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 Therma" 1928-34.

REVISED RECORDS.--WSP 1281: 1931(M), 1932, 1935(M), 1939-41(M), 1946-47(M). WSP 1921: Drainage area. See also PERIOD OF RECORD.

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. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	---	---	---	---	---	---	20	14	2.6	1.5	1.2
2	5.5	---	---	---	---	---	---	18	13	2.3	1.3	1.0
3	5.0	---	---	---	---	---	---	17	12	2.2	1.3	1.0
4	4.6	---	---	---	---	---	---	19	11	2.5	1.6	1.1
5	4.5	---	---	---	---	---	---	17	10	2.7	1.7	.93
6	4.5	---	---	---	---	---	---	16	10	2.2	1.7	.85
7	4.4	---	---	---	---	---	---	16	9.3	1.9	1.7	.92
8	4.3	---	---	---	---	---	---	16	10	1.8	1.5	.70
9	4.1	---	---	---	---	---	---	15	12	1.8	1.4	.53
10	4.1	---	---	---	---	---	---	16	10	1.8	1.6	.56
11	---	---	---	---	---	---	---	13	8.9	1.9	1.9	.70
12	---	---	---	---	---	---	---	12	8.2	1.8	1.8	.65
13	---	---	---	---	---	---	---	9.8	7.1	1.7	1.7	.54
14	---	---	---	---	---	---	---	9.7	6.4	1.6	.89	.52
15	---	---	---	---	---	---	---	9.1	5.7	1.5	.79	.96
16	---	---	---	---	---	---	---	8.7	5.3	1.5	.78	1.0
17	---	---	---	---	---	---	---	8.1	4.9	1.7	1.3	.87
18	---	---	---	---	---	---	---	8.3	4.7	1.7	1.3	.71
19	---	---	---	---	---	---	---	8.3	4.3	1.6	1.1	.74
20	---	---	---	---	---	---	---	8.4	4.6	1.5	.99	.89
21	---	---	---	---	---	---	---	8.2	4.6	2.4	1.1	1.1
22	---	---	---	---	---	---	---	8.3	4.1	1.9	1.0	1.3
23	---	---	---	---	---	---	---	11	4.0	1.7	.93	1.1
24	---	---	---	---	---	---	---	15	3.9	1.8	1.8	.97
25	---	---	---	---	---	---	17	15	3.9	1.7	2.4	.72
26	---	---	---	---	---	---	19	13	3.7	2.3	1.9	.62
27	---	---	---	---	---	---	18	11	3.5	2.3	1.6	.69
28	---	---	---	---	---	---	17	13	3.4	2.1	1.4	.68
29	---	---	---	---	---	---	17	13	3.5	1.9	1.2	.72
30	---	---	---	---	---	---	19	16	3.0	1.6	1.1	.90
31	---	---	---	---	---	---	---	14	---	1.5	1.4	---
TOTAL	47.3	---	---	---	---	---	107	402.9	209.0	59.5	43.68	25.17
MEAN	4.73	---	---	---	---	---	17.8	13.0	6.97	1.92	1.41	.84
MAX	6.3	---	---	---	---	---	19	20	14	2.7	2.4	1.3
MIN	4.1	---	---	---	---	---	17	8.1	3.0	1.5	.78	.52
AC-FT	94	---	---	---	---	---	212	799	415	118	87	50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1992, BY WATER YEAR (WY)

	MEAN	1.64	1.51	1.08	1.50	6.64	4.60	16.4	25.0	6.99	2.45	2.89	1.70
MAX	8.20	5.64	2.76	1.50	6.64	11.6	76.3	98.1	54.0	8.80	20.2	8.37	
(WY)	1970	1942	1942	1932	1932	1932	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	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1928 - 1992

ANNUAL MEAN										9.29			
HIGHEST ANNUAL MEAN										9.29		1932	
LOWEST ANNUAL MEAN										9.29		1932	
HIGHEST DAILY MEAN	117	May 22					20	May 1	189		Apr 23	1942	
LOWEST DAILY MEAN	3.1	Jul 15					.52	Sep 14	.00		Aug 4	1934	
ANNUAL SEVEN-DAY MINIMUM	3.3	Jul 10					.60	Sep 8	.00		Aug 28	1951	
INSTANTANEOUS PEAK FLOW							20	Apr 26	240		Sep 1	1946	
INSTANTANEOUS PEAK STAGE							2.22	Apr 26	3.55		May 12	1973	
ANNUAL RUNOFF (AC-FT)									6730				
10 PERCENT EXCEEDS	26						15		20				
50 PERCENT EXCEEDS	8.6						2.3		1.9				
90 PERCENT EXCEEDS	3.7						.85		.20				

ARKANSAS RIVER BASIN

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 high-water line of Eagle Nest Lake, 0.5 mi east of U.S. Highway 64, 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 Therma" 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. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	---	---	---	---	---	---	35	22	3.8	3.5	3.2
2	10	---	---	---	---	---	---	33	22	3.6	3.8	3.0
3	9.0	---	---	---	---	---	---	32	17	3.7	5.8	2.8
4	8.0	---	---	---	---	---	---	38	15	3.9	6.4	2.7
5	7.8	---	---	---	---	---	---	31	14	3.9	4.1	2.5
6	7.7	---	---	---	---	---	---	28	15	3.4	3.5	2.6
7	7.6	---	---	---	---	---	---	27	13	3.1	3.5	2.5
8	7.3	---	---	---	---	---	---	25	15	3.1	3.0	2.4
9	7.0	---	---	---	---	---	---	24	17	4.2	2.7	2.4
10	6.8	---	---	---	---	---	---	25	14	3.9	2.8	2.5
11	---	---	---	---	---	---	---	21	14	3.6	3.2	2.4
12	---	---	---	---	---	---	---	17	11	3.4	3.4	2.4
13	---	---	---	---	---	---	---	16	10	3.1	3.1	2.3
14	---	---	---	---	---	---	---	15	9.0	2.8	4.5	2.4
15	---	---	---	---	---	---	---	14	7.6	2.6	8.8	3.3
16	---	---	---	---	---	---	---	14	7.2	2.6	4.9	3.1
17	---	---	---	---	---	---	---	13	6.7	3.2	4.2	2.6
18	---	---	---	---	---	---	---	13	6.7	3.0	3.6	2.5
19	---	---	---	---	---	---	---	13	6.5	2.8	4.5	2.6
20	---	---	---	---	---	---	---	12	7.8	3.5	3.5	2.8
21	---	---	---	---	---	---	---	12	9.4	4.5	3.3	3.3
22	---	---	---	---	---	---	---	12	6.8	3.3	3.1	3.5
23	---	---	---	---	---	---	---	14	6.3	3.4	2.8	3.1
24	---	---	---	---	---	---	---	23	6.2	4.7	4.0	2.8
25	---	---	---	---	---	---	45	18	6.2	3.9	8.3	2.6
26	---	---	---	---	---	---	45	19	5.6	6.1	5.2	2.5
27	---	---	---	---	---	---	43	15	5.2	5.2	4.0	2.5
28	---	---	---	---	---	---	41	21	5.1	4.1	3.3	2.3
29	---	---	---	---	---	---	39	22	5.4	3.9	3.0	1.8
30	---	---	---	---	---	---	37	33	4.4	3.3	2.9	2.1
31	---	---	---	---	---	---	---	27	---	3.4	3.2	---
TOTAL	83.2	---	---	---	---	---	250	662	311.1	113.0	125.9	79.5
MEAN	8.32	---	---	---	---	---	41.7	21.4	10.4	3.65	4.06	2.65
MAX	12	---	---	---	---	---	45	38	22	6.1	8.8	3.5
MIN	6.8	---	---	---	---	---	37	12	4.4	2.6	2.7	1.8
AC-FT	165	---	---	---	---	---	496	1310	617	224	250	158

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1992, BY WATER YEAR (WY)

	MEAN	2.62	2.66	1.68	1.54	9.68	8.57	35.3	37.6	9.09	3.51	4.07	2.68
MAX	11.6	11.1	2.82	2.57	16.6	25.9	153	188	57.0	20.3	22.9	19.5	
(WY)	1942	1942	1943	1948	1932	1932	1942	1942	1965	1941	1991	1991	
MIN	.016	.073	.10	.50	2.76	.83	1.04	.97	.010	.000	.000	.010	
(WY)	1955	1955	1955	1932	1948	1955	1955	1972	1954	1954	1954	1954	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1928 - 1992

ANNUAL TOTAL	4446.4	1624.7	
ANNUAL MEAN	24.3	9.61	12.1
HIGHEST ANNUAL MEAN			51.9
LOWEST ANNUAL MEAN			.83
HIGHEST DAILY MEAN	200	May 22	450
LOWEST DAILY MEAN	3.6	Jun 28	.00
ANNUAL SEVEN-DAY MINIMUM	4.4	Jul 6	.00
INSTANTANEOUS PEAK FLOW			505
INSTANTANEOUS PEAK STAGE			5.61
ANNUAL RUNOFF (AC-FT)	8820	3220	8770
10 PERCENT EXCEEDS	54	25	31
50 PERCENT EXCEEDS	16	4.7	3.0
90 PERCENT EXCEEDS	5.2	2.6	.48

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 fair 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 1991 TO SEPTEMBER 1992

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	2.3	3.7	.73	.32	1.6
2	---	---	---	---	---	---	---	2.6	5.1	.18	.23	1.6
3	---	---	---	---	---	---	---	2.1	4.9	.09	.30	1.5
4	---	---	---	---	---	---	---	2.0	4.6	.05	.33	1.4
5	---	---	---	---	---	---	---	e2.5	4.4	.02	.49	1.3
6	---	---	---	---	---	---	---	e1.8	4.6	.13	.43	1.3
7	---	---	---	---	---	---	---	e2.3	4.3	.12	1.2	1.3
8	---	---	---	---	---	---	---	e2.0	5.0	.10	2.0	1.3
9	---	---	---	---	---	---	---	e1.6	5.0	.10	2.0	1.4
10	---	---	---	---	---	---	---	e2.1	4.5	.13	2.3	1.6
11	---	---	---	---	---	---	---	e1.6	4.2	.07	2.3	1.5
12	---	---	---	---	---	---	---	e1.5	4.0	e.08	2.1	1.4
13	---	---	---	---	---	---	---	e1.4	3.8	e.08	2.0	1.4
14	---	---	---	---	---	---	---	e1.3	3.5	e.08	2.3	1.4
15	---	---	---	---	---	---	---	e1.3	3.2	e.07	2.5	1.5
16	---	---	---	---	---	---	---	e1.2	3.1	e.08	2.3	1.1
17	---	---	---	---	---	---	---	e1.2	3.0	e.08	2.0	.31
18	---	---	---	---	---	---	---	e1.2	2.9	e.08	1.9	.28
19	---	---	---	---	---	---	---	e1.2	2.9	e.00	1.9	.28
20	---	---	---	---	---	---	---	e1.3	e2.8	e.08	1.8	.27
21	---	---	---	---	---	---	---	e1.3	e3.0	e.09	1.8	.28
22	---	---	---	---	---	---	---	e1.5	e2.8	e.11	1.7	.28
23	---	---	---	---	---	---	---	e1.8	e2.5	e.11	1.7	.37
24	---	---	---	---	---	---	6.9	e2.2	e2.5	.10	2.1	.57
25	---	---	---	---	---	---	6.9	e2.1	e2.7	.06	2.1	.56
26	---	---	---	---	---	---	6.1	e2.0	2.8	.24	2.0	.52
27	---	---	---	---	---	---	3.8	e1.6	2.7	.25	1.8	.62
28	---	---	---	---	---	---	3.2	e1.7	2.5	.29	1.7	.26
29	---	---	---	---	---	---	1.9	e2.0	2.4	.34	1.6	.25
30	---	---	---	---	---	---	1.8	2.6	2.6	.23	1.7	.26
31	---	---	---	---	---	---	---	2.2	---	.34	1.8	---
TOTAL	---	---	---	---	---	---	30.6	55.5	106.0	4.51	50.70	27.71
MEAN	---	---	---	---	---	---	4.37	1.79	3.53	.15	1.64	.92
MAX	---	---	---	---	---	---	6.9	2.6	5.1	.73	2.5	1.6
MIN	---	---	---	---	---	---	1.8	1.2	2.4	.00	.23	.25
AC-FT	---	---	---	---	---	---	61	110	210	8.9	101	55

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1992, 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
MEAN	1.38	1.34	1.22	1.21	1.43	2.45	7.13	8.95	3.51	1.57	1.85	1.48											
MAX	4.35	4.35	3.26	3.14	2.84	6.20	17.8	30.5	19.5	5.97	5.98	5.03											
(WY)	1970	1970	1970	1970	1970	1990	1985	1979	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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1958 - 1992	
ANNUAL TOTAL	1031.08		275.02			
ANNUAL MEAN	6.17		1.72		3.09	
HIGHEST ANNUAL MEAN					10.0	
LOWEST ANNUAL MEAN					.96	
HIGHEST DAILY MEAN	33	May 22	6.9	Apr 24	51	May 26 1979
LOWEST DAILY MEAN	.68	Jul 16	.00	Jul 19	.00	Jul 2 1960
ANNUAL SEVEN-DAY MINIMUM	.75	Jul 10	.07	Jul 13	.06	Jun 22 1981
INSTANTANEOUS PEAK FLOW			7.5	Apr 25	128	Aug 5 1969
INSTANTANEOUS PEAK STAGE			.98	Apr 25	3.38	Apr 2 1937
ANNUAL RUNOFF (AC-FT)	2050		546		2240	
10 PERCENT EXCEEDS	9.8		3.8		6.8	
50 PERCENT EXCEEDS	5.3		1.6		1.6	
90 PERCENT EXCEEDS	1.1		.10		.42	

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.

DRAINAGE AREA.--167 mi².

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 observed, 78,800 acre-ft, May 31, 1942, gage height, 136.9 ft; minimum observed, 635 acre-ft, Dec. 14, 1954, gage height, 61.33 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 75,880 acre-ft, Apr 30, gage height, 135.62 ft; minimum, 65,030 acre-ft, Sept. 30, gage height, 130.83 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 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74770	73480	74060	75110	74570	72830	72890	75830	75510	74820	70860	68510
2	74770	73500	74080	75090	74570	72760	72960	75830	75610	74590	70790	68380
3	74770	e73460	74120	75090	74500	72760	73030	75830	75710	74640	70790	68290
4	74540	73430	74190	75190	74370	72760	73120	75850	75680	74670	70730	68070
5	74540	73540	74240	75210	74260	72760	73160	75850	75750	74590	70660	68050
6	74520	73570	74240	75340	74120	72650	73320	75830	75710	74520	70590	68000
7	74420	73520	74350	75190	74170	72670	73360	75780	75650	74420	70550	67890
8	74420	73610	74350	75240	74100	72580	73540	75800	75680	74280	70460	67760
9	74400	73650	74350	75260	74030	72550	73500	75800	75650	74100	70300	67670
10	74350	73630	74420	75240	73990	72520	73630	75730	75630	73920	70260	67580
11	74320	73720	74570	75240	73880	72450	73700	75780	75630	73770	70260	67440
12	74370	73720	74570	75190	73860	72360	73830	75750	75650	73570	70300	67260
13	74300	73790	74570	75240	73990	72450	73990	75630	75580	73250	70260	67110
14	74240	73860	74540	75260	73790	72380	74170	75610	75630	73120	70280	67020
15	74190	73830	74540	75430	73680	72380	74470	75530	75480	72940	70280	66860
16	74210	73970	74570	75140	73650	72380	74770	75480	75430	72760	70280	66770
17	74170	73920	74570	74990	73740	72420	75160	75380	75330	72520	70120	66610
18	74120	73950	74690	75160	73610	72380	75310	75280	75280	72290	70030	66480
19	74080	73900	74740	75060	73500	72380	75330	75260	75280	72180	69970	66260
20	74100	74010	74720	75040	73520	72360	75510	75240	75140	72070	69880	66080
21	74080	74100	74840	75140	73410	72400	75630	75190	75110	71850	69770	65990
22	73970	73950	74820	75140	73390	72450	75530	75190	75090	71800	69650	65920
23	73860	73920	74770	75010	73300	72490	75580	75190	75090	71670	69500	65830
24	73860	74010	74770	74990	73120	72430	75610	75210	74990	71600	69390	65790
25	73810	74100	74870	74890	73100	72380	75660	75280	74920	71440	69320	65520
26	73810	74030	74820	74870	72960	72520	75730	75380	74920	71400	69160	65430
27	73700	74210	e74850	74920	72940	72510	75750	75380	74870	71330	69100	65320
28	73650	74190	74870	74890	72900	72580	75830	75360	74890	71220	69050	65230
29	73570	74100	74920	74960	72830	72650	75830	75410	74940	71170	68990	65140
30	73500	74060	74990	74820	---	72690	75880	75460	74920	71080	68780	65030
31	73450	---	74990	74770	---	72830	---	75480	---	70990	68670	---
MAX	74770	74210	74990	75430	74570	72830	75880	75850	75750	74820	70860	68510
MIN	73450	73430	74060	74770	72830	72360	72890	75190	74870	70990	68670	65030
(†)	134.60	134.87	135.26	135.09	134.32	134.32	135.62	135.46	135.23	133.50	132.46	130.83
(††)	-1320	610	930	-220	-1940	0	3050	-400	-560	-3930	-2320	-3640
CAL YR 1991	MAX 74990	MIN 62790	(††) +11590									
WTR YR 1992	MAX 75880	MIN 65030	(††) -9740									

(†) GAGE HEIGHT, IN FEET, AT END OF MONTH

(††) CHANGE IN CONTENTS, IN ACRE-FEET

e Estimated

07206000 CIMARRON RIVER BELOW EAGLE NEST DAM. NM

LOCATION.--Lat 36°31'55", long 105°13'43", Colfax County, Hydrologic Unit 11080002, in Maxwell Grant, on left bank 300 ft downstream from Eagle Nest Dam, 2.5 mi southeast of Eagle Nest, 6.7 mi west of Ute Park, and at mile 48.6.

DRAINAGE AREA.--167 mi².

PERIOD OF RECORD.--May 1950 to current year. Published as Cimarron Creek below Eagle Nest Dam October 1952 to September 1965.

REVISED RECORDS.--WSP 1281: Drainage area.

GAGE.--Water-stage recorder. Parshall flume since May 15, 1951. Elevation of gage is 8,080 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to May 15, 1951, at datum 0.81 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Eagle Nest Lake (station 07205500) 300 ft upstream. Diversions for irrigation of 2,500 acres upstream from station. No flow at times most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

[illegible]

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1992, BY WATER YEAR (WY)

MEAN	15.2	5.50	.88	.76	2.22	8.06	19.1	30.9	29.7	33.7	19.8	15.0
MAX	50.3	25.9	20.4	19.1	47.0	146	141	102	65.8	73.3	73.8	51.3
(WY)	1976	1982	1986	1992	1992	1987	1987	1963	1964	1950	1950	1968
MIN	.16	.000	.000	.000	.000	.000	.000	.74	2.66	7.15	.74	.083
(WY)	1957	1960	1956	1956	1956	1960	1957	1957	1986	1956	1954	1981

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1950 - 1992
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ANNUAL TOTAL	5185.27		11934.49				
ANNUAL MEAN	14.2		32.6		14.9		
HIGHEST ANNUAL MEAN					43.2		1987
LOWEST ANNUAL MEAN					5.85		1955
HIGHEST DAILY MEAN	78	Jun 7	97	Jul 14	187		May 14 1963
LOWEST DAILY MEAN	.30	Nov 15	.30	Nov 15	.00		May 1 1950
ANNUAL SEVEN-DAY MINIMUM	.30	Nov 15	.30	Nov 15	.00		May 1 1950
INSTANTANEOUS PEAK STAGE					3.04		Apr 20 1983
ANNUAL RUNOFF (AC-FT)	10280		23670		10760		
10 PERCENT EXCEEDS	43		53		41		
50 PERCENT EXCEEDS	7.7		39		6.0		
90 PERCENT EXCEEDS	.42		.98		.00		

ARKANSAS RIVER BASIN

07207000 CIMARRON RIVER NEAR CIMARRON, NM

LOCATION.--Lat 36°31'11", long 104°58'42", Colfax County, Hydrologic Unit 11080002, in Maxwell Grant, on right bank
1,200 ft downstream from Turkey Creek Canyon, 3.6 mi west of Cimarron, and at mile 31.6.
DRAINAGE AREA.--294 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	29	6.2	8.5	e45	39	48	63	52	19	52	49
2	22	25	5.6	7.8	e45	40	47	66	52	19	44	49
3	27	30	6.9	e10	e45	42	47	70	51	19	42	49
4	30	21	17	e25	e40	44	48	70	48	19	43	49
5	30	12	19	e12	e42	44	48	69	46	23	42	20
6	31	11	13	10	e43	44	46	69	44	26	42	15
7	29	9.4	12	12	e44	44	47	69	41	31	41	30
8	28	8.6	6.0	9.3	e45	44	48	68	43	37	40	36
9	28	8.1	5.4	e10	e45	44	50	67	45	56	40	48
10	21	7.9	4.8	e16	e45	43	51	66	41	65	39	48
11	17	9.5	4.7	e14	e45	44	54	65	37	67	19	49
12	17	8.6	e5.5	e12	e45	44	55	63	36	69	13	49
13	18	7.9	e5.5	e12	e41	44	58	62	36	76	12	54
14	17	7.9	e6.0	e12	e45	44	64	61	34	81	11	56
15	16	8.4	e6.0	e13	e45	44	73	60	34	82	11	65
16	16	8.7	e6.5	e15	e45	44	73	60	35	84	38	64
17	18	8.0	e7.0	e16	e45	44	71	61	34	83	52	63
18	20	8.0	e6.5	e15	e45	44	71	62	34	77	54	66
19	18	7.7	e6.5	e13	e45	43	70	61	32	72	54	57
20	17	8.7	6.8	e13	44	43	69	52	36	73	53	55
21	20	7.5	9.5	e16	43	44	67	35	36	75	55	52
22	21	7.6	5.9	e20	43	45	65	35	34	65	53	44
23	24	e7.0	7.2	e25	43	44	63	45	32	62	53	41
24	24	e6.5	9.6	e25	43	44	62	49	19	58	56	41
25	20	e6.5	9.0	e26	43	44	62	39	16	59	55	39
26	18	6.4	8.3	e27	43	44	62	36	14	59	53	35
27	19	6.2	e7.0	e31	43	44	63	42	14	47	50	35
28	25	6.2	e7.0	e35	42	45	60	50	15	39	49	31
29	25	6.3	e7.0	e36	41	46	58	51	19	46	49	30
30	25	5.7	e7.0	e37	---	46	61	52	17	51	50	27
31	26	---	e7.0	e40	---	48	---	52	---	53	51	---
TOTAL	690	311.3	241.4	573.6	1268	1360	1761	1770	1027	1692	1316	1346
MEAN	22.3	10.4	7.79	18.5	43.7	43.9	58.7	57.1	34.2	54.6	42.5	44.9
MAX	31	30	19	40	45	48	73	70	52	84	56	66
MIN	16	5.7	4.7	7.8	40	39	46	35	14	19	11	15
AC-FT	1370	617	479	1140	2520	2700	3490	3510	2040	3360	2610	2670
(↑)	200	0	0	0	0	0	0	0	0	191	0	111
(↑↑)	248	240	128	127	116	8	0	0	84	0	0	36

CAL YR 1991	TOTAL	MEAN	MAX	MIN	AC-FT	(†) 984	(††) 982
WTR YR 1992	TOTAL	MEAN	MAX	MIN	AC-FT	(†) 502	(††) 984

(†) 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

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1992, BY WATER YEAR (WY)

	1976	1982	1989	1992	1992	1987	1987	1987	1965	1952	1950	1968
MEAN	17.5	10.5	4.68	3.90	5.04	11.0	30.5	58.3	46.2	35.6	25.4	17.4
MAX	44.9	26.7	14.8	18.5	43.7	149	177	180	123	71.0	70.0	50.4
(WY)	1976	1982	1989	1992	1992	1987	1987	1987	1965	1952	1950	1968
MIN	.14	3.72	1.32	1.13	1.17	1.65	2.70	23.5	8.55	6.13	1.95	.12
(WY)	1957	1952	1957	1957	1988	1955	1955	1957	1956	1956	1954	1956

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1950 - 1992

[illegible]

* Backwater from ice.

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 1991 TO SEPTEMBER 1992

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 DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	
OCT 22...	1600	21	269	7.9	16.0	12.0	592	8.9	12	150	45	
MAR 18...	1400	45	312	9.0	10.0	7.0	590	10.4	--	150	46	
MAY 28...	1500	51	--	8.0	8.0	10.0	592	9.0	--	120	37	
AUG 20...	1030	51	300	8.5	24.0	13.0	603	8.7	12	140	43	
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 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 TOTAL (MG/L AS N) (00615)
OCT 22...	8.5	13	0.5	1.8	148	31	6.3	0.40	6.3	201	<0.010	
MAR 18...	9.5	15	0.5	2.0	153	23	8.2	0.40	4.9	201	--	
MAY 28...	7.1	10	0.4	1.6	118	26	4.9	0.40	8.1	166	--	
AUG 20...	8.9	13	0.5	2.1	154	18	7.5	0.40	6.2	193	<0.010	
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 TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, TOTAL (MG/L AS P) (70507)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT 22...	<0.010	0.130	0.057	0.020	0.030	0.38	0.40	0.53	0.040	0.020	0.010	
AUG 20...	<0.010	0.170	0.200	0.030	0.020	0.27	0.30	0.47	0.060	0.060	0.070	
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 22...	4.6	2	2	20	<1	<1.0	<1	<1	2	2	11	
MAR 18...	--	--	--	20	--	--	--	--	--	--	18	
MAY 28...	--	--	--	<10	--	--	--	--	--	--	43	
AUG 20...	5.7	--	--	20	--	--	--	--	--	--	6	
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, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 22...	2	<1	<0.10	<0.1	1	<1	<10	--	7	0.40	75	
AUG 20...	--	--	--	--	--	--	--	--	34	4.7	71	

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	12	e7.0	4.5	e4.0	3.9	13	36	69	3.6	5.6	3.6
2	20	12	e6.5	e5.0	e4.0	4.5	13	35	67	2.9	4.5	3.1
3	18	12	e6.5	e5.0	3.9	4.6	13	33	55	2.7	4.2	3.0
4	16	13	e7.0	e5.0	3.5	5.0	18	31	48	2.9	4.3	2.7
5	16	12	8.1	4.2	e3.5	5.0	22	27	42	3.1	4.1	2.4
6	15	12	8.2	e4.0	e3.5	5.0	22	25	38	2.1	4.0	2.1
7	15	12	8.5	e4.0	e3.7	4.8	25	24	34	1.5	3.7	1.8
8	15	11	7.2	e4.5	e3.8	4.9	31	22	33	1.3	3.3	1.6
9	14	10	6.8	e4.5	e3.9	4.8	40	19	43	1.4	2.8	1.4
10	14	10	7.2	e4.5	4.1	4.2	49	17	38	34	14	1.3
11	14	14	6.5	e4.5	4.0	5.2	57	16	31	9.3	8.2	1.3
12	13	11	e6.0	e4.5	4.4	4.9	60	14	26	5.1	4.7	1.1
13	13	11	e5.5	e4.5	3.9	4.9	67	13	23	4.0	4.7	1.0
14	13	13	e6.0	e4.0	3.5	5.0	75	12	20	3.6	8.3	.99
15	12	14	6.1	e4.0	3.8	5.3	85	11	18	3.2	9.5	1.5
16	12	14	6.6	e4.0	3.5	5.7	81	10	16	3.1	5.8	1.9
17	12	13	6.6	e4.0	4.1	5.9	70	9.5	15	3.5	5.2	1.4
18	11	13	6.1	e4.0	4.9	6.3	65	9.9	14	2.9	5.0	1.1
19	11	12	7.4	e3.5	6.4	5.5	60	8.9	13	2.7	5.1	1.1
20	11	9.6	6.5	e4.0	4.4	5.6	52	7.9	16	2.6	4.2	1.2
21	11	13	7.4	e4.0	4.0	6.0	44	7.7	15	8.2	4.9	1.3
22	11	12	7.0	e4.5	3.9	7.4	37	7.5	12	7.2	4.9	1.7
23	11	9.6	e6.0	e4.5	3.9	7.0	31	20	11	5.6	3.9	1.6
24	11	e9.0	e4.5	5.5	3.9	7.2	29	49	10	4.8	4.4	1.4
25	11	e8.0	e5.5	3.9	3.8	7.1	28	44	9.7	4.8	6.9	1.1
26	11	e9.5	e6.0	3.7	4.3	7.2	30	48	8.5	6.4	6.4	.86
27	10	e9.0	6.8	3.6	3.6	7.9	29	49	7.2	7.3	5.4	.89
28	10	9.3	8.5	4.4	3.6	8.9	31	52	7.2	7.9	4.4	.88
29	11	9.2	6.8	4.3	3.6	9.3	35	58	7.5	6.8	3.8	.98
30	10	7.5	5.5	4.1	---	9.9	36	69	4.9	5.6	3.5	.99
31	10	---	5.9	e4.0	---	12	---	68	---	4.7	3.9	---
TOTAL	405	336.7	206.2	132.7	115.4	190.9	1248	853.4	752.0	164.8	163.6	47.29
MEAN	13.1	11.2	6.65	4.28	3.98	6.16	41.6	27.5	25.1	5.32	5.28	1.58
MAX	23	14	8.5	5.5	6.4	12	85	69	69	34	14	3.6
MIN	10	7.5	4.5	3.5	3.5	3.9	13	7.5	4.9	1.3	2.8	.86
AC-FT	803	668	409	263	229	379	2480	1690	1490	327	325	94
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1992, BY WATER YEAR (WY)

MEAN	3.74	3.30	2.35	2.09	2.27	4.86	24.7	44.6	18.3	7.43	15.2	5.38
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1916 - 1992

ANNUAL TOTAL	10935.7	4615.99	
ANNUAL MEAN	30.0	12.6	
HIGHEST ANNUAL MEAN			11.3
LOWEST ANNUAL MEAN			34.5
HIGHEST DAILY MEAN	572	85	1.38
LOWEST DAILY MEAN	2.0	.86	819
ANNUAL SEVEN-DAY MINIMUM	2.5	1.0	.00
INSTANTANEOUS PEAK FLOW		497	.00
INSTANTANEOUS PEAK STAGE		4.56	5630
ANNUAL RUNOFF (AC-FT)	21690	9160	11.13
10 PERCENT EXCEEDS	75	33	8200
50 PERCENT EXCEEDS	12	6.8	27
90 PERCENT EXCEEDS	3.9	2.9	3.0
			.40

ARKANSAS RIVER BASIN

07207500 PONIL CREEK NEAR CIMARRON, NM -- Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
OCT 22...	1100	12	296	7.8	16.0	10.0	592	8.6	150
MAR 18...	1530	6.0	250	8.7	10.0	9.5	590	9.4	120
MAY 27...	1100	47	142	6.6	12.0	8.0	592	8.3	75
AUG 19...	1500	5.3	285	8.8	24.0	17.5	600	7.5	130
SEP 22...	0930	1.6	334	--	--	10.0	--	--	--

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)	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)
OCT 22...	41	11	17	0.6	1.1	153	28	4.6
MAR 18...	32	8.6	13	0.5	0.80	111	27	4.4
MAY 27...	21	5.5	6.1	0.3	1.0	69	12	2.2
AUG 19...	35	9.8	15	0.6	1.2	143	21	2.3
SEP 22...	--	--	--	--	--	--	--	--

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)
OCT 22...	0.40	9.6	204	20	21	7	0.22	76
MAR 18...	0.30	8.2	161	20	26	4	0.06	94
MAY 27...	0.30	9.2	99	10	270	124	16	94
AUG 19...	0.40	8.0	178	20	29	20	0.28	95
SEP 22...	--	--	--	--	--	21	0.09	69

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 1991 TO-SEPTEMBER 1992

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)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
OCT 22...	1300	8.2	168	7.4	16.0	10.0	592	9.2	61
MAR 18...	1130	7.6	126	8.5	10.0	7.0	588	8.9	58
MAY 28...	1300	30	98	7.0	10.0	8.0	593	8.2	49
AUG 20...	1300	6.6	148	8.3	26.0	21.0	603	7.3	68
SEP 22...	1400	4.2	154	--	--	16.0	--	--	--

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)	ALKA- LINEITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT 22...	16	5.1	5.0	0.3	1.5	68	6.2	0.70
MAR 18...	15	4.9	5.3	0.3	1.2	60	6.6	2.2
MAY 28...	13	4.0	3.9	0.2	1.1	48	4.9	1.3
AUG 20...	18	5.7	5.5	0.3	1.4	74	5.1	1.2
SEP 22...	--	--	--	--	--	--	--	--

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)
OCT 22...	0.20	20	96	<10	64	2	0.04	67
MAR 18...	0.20	18	89	<10	94	9	0.18	81
MAY 28...	0.20	16	73	<10	190	20	1.6	74
AUG 20...	0.20	17	99	<10	110	6	0.11	79
SEP 22...	--	--	--	--	--	2	0.02	71

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. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	38	30	28	58	64	67	5.9	54	16	7.3	1.2
2	58	40	25	22	63	65	62	5.9	86	11	6.5	.92
3	51	36	38	22	65	65	60	5.1	82	8.0	4.0	1.1
4	45	59	46	34	64	68	58	4.5	78	5.5	3.2	.53
5	43	59	44	28	62	68	58	4.5	71	7.0	4.0	.42
6	43	49	38	28	64	65	58	5.9	62	6.1	1.1	.42
7	53	43	37	35	64	65	51	11	63	4.5	.48	3.2
8	52	40	34	34	68	65	44	4.4	63	4.6	.41	10
9	48	38	33	20	67	63	44	3.9	58	4.4	.32	9.6
10	51	36	32	20	65	45	38	4.6	63	6.8	.34	10
11	32	39	31	24	65	59	42	3.5	57	4.5	194	7.7
12	28	50	34	40	65	40	47	2.5	52	2.1	21	4.2
13	27	41	34	30	65	33	78	3.0	45	2.1	13	1.3
14	27	38	29	32	66	31	86	3.4	40	2.0	5.4	4.6
15	26	42	30	51	64	28	101	2.7	36	1.7	4.7	2.4
16	27	54	39	46	63	26	164	3.8	33	2.1	3.3	7.0
17	17	51	52	42	59	25	173	4.2	22	2.4	8.7	9.2
18	14	50	46	45	59	24	168	5.4	17	2.4	5.5	3.7
19	12	48	40	70	63	24	165	4.4	16	2.4	13	4.9
20	12	40	39	77	65	23	150	3.1	18	5.9	7.9	3.4
21	12	36	39	62	66	23	109	3.3	37	9.8	4.6	5.8
22	34	41	38	62	64	24	78	3.8	26	13	7.2	7.9
23	38	35	36	67	65	24	66	6.0	39	9.8	10	7.1
24	39	29	26	71	64	23	59	35	44	5.9	3.7	8.0
25	28	41	28	69	63	23	56	18	27	5.9	11	5.8
26	25	43	34	53	64	23	64	7.6	23	7.3	6.9	2.9
27	23	39	31	51	64	23	75	7.5	20	12	3.2	1.0
28	23	37	26	50	64	47	23	8.0	19	5.5	2.1	.58
29	23	37	28	57	63	56	9.5	8.6	22	2.4	1.6	.50
30	26	35	31	57	---	54	6.9	9.9	25	2.0	1.1	.43
31	28	---	32	55	---	58	---	14	---	6.0	1.4	---
TOTAL	1026	1264	1080	1382	1851	1324	2260.4	213.4	1298	181.1	356.95	125.80
MEAN	33.1	42.1	34.8	44.6	63.8	42.7	75.3	6.88	43.3	5.84	11.5	4.19
MAX	61	59	52	77	68	68	173	35	86	16	194	10
MIN	12	29	25	20	58	23	6.9	2.5	16	1.7	.32	.42
AC-FT	2040	2510	2140	2740	3670	2630	4480	423	2570	359	708	250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 1992, BY WATER YEAR (WY)

	MEAN	8.51	7.74	6.78	6.91	7.57	9.14	27.2	72.1	37.3	10.9	17.1	11.6
MAX	98.0	68.3	59.0	62.3	63.8	242	506	928	699	146	154	118	
(WY)	1942	1942	1987	1987	1992	1987	1987	1941	1965	1965	1991	1942	
MIN	.039	.23	.28	.33	.33	.35	.50	.73	1.01	.39	.17	.007	
(WY)	1957	1957	1957	1957	1957	1957	1957	1956	1925	1974	1978	1956	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1908 - 1992
ANNUAL TOTAL	13223.53	12362.65	
ANNUAL MEAN	36.2	33.8	18.8
HIGHEST ANNUAL MEAN			128
LOWEST ANNUAL MEAN			.90
HIGHEST DAILY MEAN	420	194	10500
LOWEST DAILY MEAN	.93	.32	.00
ANNUAL SEVEN-DAY MINIMUM	1.6	.86	.00
INSTANTANEOUS PEAK FLOW		402	29500
INSTANTANEOUS PEAK STAGE		4.82	19.96
INSTANTANEOUS LOW FLOW		.31	
ANNUAL RUNOFF (AC-FT)	26230	24520	13600
10 PERCENT EXCEEDS	75	65	22
50 PERCENT EXCEEDS	12	30	3.8
90 PERCENT EXCEEDS	4.4	3.2	1.1

ARKANSAS RIVER BASIN

07211500 CANADIAN RIVER NEAR TAYLOR SPRINGS, NM

LOCATION.--Lat 36°17'49", long 104°29'36", in NW¼SE¼ sec.21, T.24 N., R.23 E., Colfax County, Hydrologic Unit 11080003, on left bank at head of gorge, 2.0 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	49	57	80	79	76	88	13	70	47	39	54
2	71	49	48	67	84	75	81	12	110	36	35	66
3	68	46	57	62	86	76	75	11	105	28	28	61
4	59	68	68	89	83	82	69	11	94	21	26	54
5	54	80	76	79	84	84	68	9.9	123	20	60	45
6	50	77	78	81	87	82	66	9.7	76	18	75	41
7	60	67	74	98	89	80	59	13	591	14	33	37
8	61	62	69	75	93	77	54	12	324	13	19	41
9	55	58	64	70	93	76	51	11	178	15	14	42
10	57	55	62	69	89	54	43	11	181	13	13	38
11	41	59	57	74	89	71	46	9.8	228	13	326	32
12	33	76	71	95	88	54	50	9.0	186	21	131	25
13	32	68	70	79	86	44	79	8.9	132	17	436	20
14	32	62	60	65	88	41	92	11	96	12	249	20
15	32	67	54	65	85	38	112	9.2	76	8.4	189	20
16	32	89	62	70	82	35	186	9.9	72	7.0	153	25
17	27	88	72	75	76	34	201	11	60	288	127	32
18	22	86	77	78	73	32	199	10	45	48	1190	25
19	19	83	93	68	76	31	196	9.7	35	39	445	20
20	19	74	98	68	79	30	185	8.3	38	35	318	19
21	19	65	93	73	76	30	153	11	85	57	191	18
22	32	69	96	76	75	30	98	8.9	67	354	164	22
23	43	59	95	72	75	33	79	12	50	686	255	22
24	45	54	83	83	77	31	74	47	71	423	137	21
25	36	80	83	80	76	31	66	49	44	172	292	18
26	33	83	84	79	74	30	72	25	46	123	265	15
27	29	75	82	80	80	30	85	35	38	109	185	11
28	28	71	69	74	83	48	43	30	65	96	163	8.9
29	31	70	71	78	75	65	19	29	105	76	103	9.4
30	31	67	82	79	---	62	15	28	84	58	69	9.2
31	38	---	90	76	---	73	---	58	---	65	58	---
TOTAL	1260	2056	2295	2357	2380	1635	2704	543.3	3475	2932.4	5788	871.5
MEAN	40.6	68.5	74.0	76.0	82.1	52.7	90.1	17.5	116	94.6	187	29.0
MAX	71	89	98	98	93	84	201	58	591	686	1190	66
MIN	19	46	48	62	73	30	15	8.3	35	7.0	13	8.9
AC-FT	2500	4080	4550	4680	4720	3240	5360	1080	6890	5820	11480	1730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1992, BY WATER YEAR (WY)

	MEAN	39.9	22.2	19.0	19.7	24.9	25.0	122	225	131	92.4	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1940 - 1992
ANNUAL TOTAL	25944.8	28297.2	
ANNUAL MEAN	71.1	77.3	77.8
HIGHEST ANNUAL MEAN			564
LOWEST ANNUAL MEAN			7.60
HIGHEST DAILY MEAN	920	1190	43000
LOWEST DAILY MEAN	2.7	7.0	.00
ANNUAL SEVEN-DAY MINIMUM	7.5	9.8	.00
INSTANTANEOUS PEAK FLOW		2840	162000
INSTANTANEOUS PEAK STAGE		5.02	47.40
INSTANTANEOUS LOW FLOW		6.1	
ANNUAL RUNOFF (AC-FT)	51460	56130	56380
10 PERCENT EXCEEDS	135	124	115
50 PERCENT EXCEEDS	28	66	14
90 PERCENT EXCEEDS	8.7	15	2.6

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 1991 TO SEPTEMBER 1992

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)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
NOV 06...	1500	27	510	8.4	17.5	9.0	588	9.7	280
FEB 18...	1400	8.3	495	8.4	8.0	4.5	587	10.8	270
MAY 20...	1345	65	440	8.3	20.5	14.5	666	9.6	220
JUL 16...	1330	17	525	8.1	21.5	18.0	592	7.8	260

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- LINITY LAB AS CACO3 (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
NOV 06...	82	18	13	0.3	1.6	194	110	5.9
FEB 18...	80	16	12	0.3	0.90	202	78	7.7
MAY 20...	67	13	8.2	0.2	0.90	170	68	4.5
JUL 16...	80	14	11	0.3	1.2	198	61	6.8

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 06...	0.40	8.2	355	30	5	26	1.9	80
FEB 18...	0.40	9.1	325	30	3	32	0.72	82
MAY 20...	0.20	7.9	272	30	4	153	27	72
JUL 16...	0.40	9.1	302	40	6	52	2.4	84

07216500 MORA RIVER NEAR GOLONDRINAS, NM

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 Golondrin, 1.9 mi upstream from Coyote Creek, 4.7 mi downstream from Rito Cebolla, and at mile 75.8.

DRAINAGE AREA.--267 mi².

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.

REVISED RECORDS.--WSP 1281: 1951(M). WSP 1311: 1935(M), 1937-38(M), 1940-42(M), 1949(M). WSP 1511: Drainage area. WSP 1731: 1958(M).

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.

REMARKS.--Records good except for ice periods which are poor. Diversions for irrigation of about 12,000 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. National Weather Service satellite telemeter at station. No flow at times some years.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	e33	35	30	34	14	51	88	211	30	32	27
2	68	e31	34	30	34	15	50	83	202	21	30	26
3	64	e32	e33	30	34	15	44	77	178	21	29	24
4	59	e33	e32	27	29	15	47	114	163	20	32	22
5	55	e32	e33	30	23	16	49	84	156	20	31	19
6	58	e33	31	25	23	15	49	66	167	21	32	17
7	60	33	34	29	22	15	49	58	160	18	29	12
8	62	36	34	28	23	16	56	52	164	14	26	14
9	60	36	34	27	24	16	61	50	178	16	26	13
10	49	36	31	28	26	17	71	46	152	18	26	15
11	48	39	32	e27	26	17	89	46	139	22	26	13
12	49	47	32	e25	24	18	95	33	134	20	25	13
13	52	41	33	e24	25	17	104	30	117	21	29	13
14	52	40	30	e23	24	17	127	31	109	21	32	9.0
15	50	43	31	e22	22	17	166	37	96	15	36	16
16	54	54	35	e22	21	18	165	40	90	18	37	18
17	49	48	41	e22	20	18	144	41	85	27	33	16
18	38	48	46	e24	18	19	139	48	80	22	31	14
19	38	48	34	27	19	18	137	47	78	23	35	17
20	37	43	32	25	20	17	124	51	79	21	34	19
21	37	47	32	24	19	17	108	77	89	24	39	19
22	38	52	33	23	17	15	88	84	80	28	32	18
23	33	40	33	25	17	16	80	136	75	164	31	16
24	32	36	34	24	16	15	75	224	87	73	43	16
25	31	41	37	31	15	18	65	191	87	33	46	16
26	30	39	35	28	16	18	73	230	71	35	41	15
27	31	38	33	24	16	18	84	231	70	36	36	15
28	33	38	31	25	12	22	87	229	67	32	31	13
29	32	36	36	26	10	23	89	222	65	33	28	14
30	33	35	35	29	---	27	90	231	49	34	27	16
31	43	---	32	32	---	37	---	209	---	32	29	---
TOTAL	1453	1188	1048	816	629	556	2656	3186	3478	933	994	495.0
MEAN	46.9	39.6	33.8	26.3	21.7	17.9	88.5	103	116	30.1	32.1	16.5
MAX	78	54	46	32	34	37	166	231	211	164	46	27
MIN	30	31	30	22	10	14	44	30	49	14	25	9.0
AC-FT	2880	2360	2080	1620	1250	1100	5270	6320	6900	1850	1970	982
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1992, BY WATER YEAR (WY)

MEAN	22.1	14.7	12.2	12.2	11.6	13.0	45.5	88.6	70.6	41.1	57.1	34.1
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

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1915 - 1992
ANNUAL TOTAL	28605.0	17432.0	
ANNUAL MEAN	78.4	47.6	34.4
HIGHEST ANNUAL MEAN			144
LOWEST ANNUAL MEAN			3.42
HIGHEST DAILY MEAN	906	231	1750
LOWEST DAILY MEAN	1.2	9.0	.00
ANNUAL SEVEN-DAY MINIMUM	1.5	13	.00
INSTANTANEOUS PEAK FLOW		1390	14000
INSTANTANEOUS PEAK STAGE		3.86	14.40
INSTANTANEOUS LOW FLOW		5.5	
ANNUAL RUNOFF (AC-FT)	56740	34580	24930
10 PERCENT EXCEEDS	215	91	90
50 PERCENT EXCEEDS	36	32	13
90 PERCENT EXCEEDS	3.8	16	2.0

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, 2.3 mi northeast of Golondrinas, and at mile 2.7.

DRAINAGE AREA.--215 mi².

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 those 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	e17	22	20	22	17	32	12	18	5.2	6.6	7.9
2	24	e16	e21	21	23	18	30	11	21	6.5	6.6	7.0
3	24	e15	e20	25	23	18	28	11	20	5.6	7.0	6.8
4	24	e17	e21	22	19	20	26	12	17	5.0	7.0	6.6
5	24	e18	e22	19	18	21	27	11	16	4.8	6.9	6.4
6	24	e18	24	18	18	22	27	11	15	4.0	5.7	6.2
7	24	e17	23	19	17	22	26	12	14	3.6	5.3	6.0
8	23	e18	22	21	18	22	27	12	16	3.5	5.2	5.9
9	23	e19	21	22	18	19	30	17	17	3.3	5.8	5.9
10	23	e20	22	19	18	16	31	22	14	3.4	6.3	5.0
11	23	e18	22	19	18	18	30	15	11	3.4	5.9	4.6
12	23	e17	22	18	18	18	30	9.8	11	3.3	5.8	4.3
13	23	e18	20	e17	18	19	33	10	11	3.2	5.8	4.2
14	23	e19	20	e16	17	20	34	7.0	11	3.1	27	4.4
15	23	e20	24	e17	17	19	30	5.6	8.5	3.1	25	5.0
16	23	25	23	e19	17	15	32	5.6	8.0	3.1	15	4.5
17	21	27	22	e18	16	14	33	5.5	7.5	3.5	12	4.2
18	20	28	21	17	15	13	33	5.5	7.2	3.3	10	4.4
19	20	28	21	18	16	12	38	6.3	7.3	7.0	10	4.5
20	21	25	22	19	18	12	34	7.1	7.7	5.1	7.8	4.7
21	21	e21	22	21	18	12	28	6.3	9.6	2.7	9.6	4.6
22	21	e20	22	19	17	13	21	5.7	8.8	3.5	7.6	4.6
23	21	e20	22	20	17	13	17	8.0	8.4	12	7.3	4.4
24	21	e22	22	20	17	14	17	15	6.4	16	11	4.2
25	20	25	24	19	17	16	17	12	7.2	6.3	14	4.9
26	21	25	23	19	17	13	16	21	6.5	5.5	9.8	3.2
27	20	24	20	21	17	12	15	20	5.5	6.8	8.4	3.3
28	20	25	e19	21	18	18	15	16	5.8	7.6	7.5	3.5
29	21	24	e20	22	17	24	15	18	6.1	7.0	7.5	3.7
30	21	23	e19	22	---	27	13	22	5.3	7.1	7.1	3.5
31	20	---	21	23	---	30	---	17	---	7.0	9.3	---
TOTAL	685	629	669	611	519	547	785	369.4	327.8	164.5	285.8	148.4
MEAN	22.1	21.0	21.6	19.7	17.9	17.6	26.2	11.9	10.9	5.31	9.22	4.95
MAX	25	28	24	25	23	30	38	22	21	16	27	7.9
MIN	20	15	19	16	15	12	13	5.5	5.3	2.7	5.2	3.2
AC-FT	1360	1250	1330	1210	1030	1080	1560	733	650	326	567	294

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1992, BY WATER YEAR (WY)

MEAN	9.13	8.75	7.71	7.26	7.65	9.62	20.8	28.4	13.9	9.34	17.0	11.8
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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1930 - 1992
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ANNUAL TOTAL	14257.5		5740.9					
ANNUAL MEAN	39.1		15.7			12.6		
HIGHEST ANNUAL MEAN						52.9		1942
LOWEST ANNUAL MEAN						2.33		1978
HIGHEST DAILY MEAN	1290	Sep 10	38	Apr 19		1290	Sep 10	1991
LOWEST DAILY MEAN	1.7	May 15	2.7	Jul 21		.00	Aug 4	1945
ANNUAL SEVEN-DAY MINIMUM	1.9	May 12	3.2	Jul 10		.10	Jul 20	1939
INSTANTANEOUS PEAK FLOW			166	Aug 14		4050	Aug 17	1961
INSTANTANEOUS PEAK STAGE			3.26	Aug 14		10.10	Aug 30	1936
INSTANTANEOUS LOW FLOW			2.4	Jul 22				
ANNUAL RUNOFF (AC-FT)	28280		11390			9150		
10 PERCENT EXCEEDS	78		24			24		
50 PERCENT EXCEEDS	13		17			5.3		

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 Pedroso 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 winter period, 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	83	90	82	e68	43	97	73	240	46	7.8	45
2	142	87	87	84	e72	47	105	63	260	45	6.3	38
3	129	92	88	86	e74	46	97	55	245	39	4.8	32
4	113	88	81	76	e76	47	95	54	207	33	5.0	31
5	101	99	89	80	e70	51	95	69	186	26	33	27
6	99	102	91	81	e68	52	99	57	185	24	33	28
7	100	94	90	84	71	52	93	42	181	22	12	29
8	99	92	88	82	71	52	86	30	192	13	8.5	28
9	93	95	87	82	77	54	88	28	188	11	6.5	24
10	91	91	84	85	77	55	100	28	186	10	5.9	22
11	88	92	86	77	74	50	102	35	167	9.1	6.8	9.3
12	88	101	84	79	73	54	113	36	175	8.5	6.8	7.3
13	88	106	86	e74	70	49	118	25	176	8.5	10	6.9
14	88	99	80	e72	71	47	128	20	137	7.7	17	6.6
15	88	99	81	e68	70	56	152	20	128	7.5	50	6.7
16	89	120	86	e72	66	62	176	21	116	7.7	40	e8.6
17	88	123	80	e68	61	60	159	19	108	7.5	36	e8.2
18	88	119	82	e66	56	59	143	23	97	7.0	25	e7.2
19	87	121	85	e66	54	62	142	28	90	6.6	22	e8.4
20	86	113	90	69	57	60	149	34	85	6.4	40	e10
21	86	101	91	70	58	59	130	40	96	6.3	242	e11
22	86	110	91	71	57	60	111	57	97	5.8	55	e11
23	86	110	91	67	55	59	90	69	77	7.3	51	e10
24	86	89	84	62	55	57	75	138	64	91	44	e9.6
25	85	93	81	62	53	47	56	167	62	34	55	e9.6
26	84	98	91	68	52	50	51	167	60	13	65	e9.4
27	84	97	89	71	52	54	62	210	45	13	56	e9.4
28	84	97	82	74	54	55	66	225	45	9.5	47	e9.0
29	84	95	81	77	47	64	67	253	53	6.8	45	e9.8
30	83	92	84	e72	---	74	65	259	61	5.9	41	e11
31	83	---	83	e70	---	87	---	250	---	6.6	45	---
TOTAL	2930	2998	2663	2297	1859	1724	3110	2595	4009	544.7	1122.4	483.0
MEAN	94.5	99.9	85.9	74.1	64.1	55.6	104	83.7	134	17.6	36.2	16.1
MAX	154	123	91	86	77	87	176	259	260	91	242	45
MIN	83	83	80	62	47	43	51	19	45	5.8	4.8	6.6
AC-FT	5810	5950	5280	4560	3690	3420	6170	5150	7950	1080	2230	958
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1992, BY WATER YEAR (WY)

	MEAN	38.6	29.7	28.0	27.9	24.1	25.9	74.3	122	102	59.9	94.0	61.4
MAX	326	212	134	94.3	126	318	842	1437	937	700	587	404	
(WY)	1942	1942	1924	1924	1987	1987	1942	1941	1921	1921	1961	1991	
MIN	.000	.33	.64	.98	.75	.58	.34	1.63	.40	.29	.094	.020	
(WY)	1957	1957	1957	1957	1957	1955	1955	1954	1954	1974	1964	1954	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1920 - 1992	
ANNUAL TOTAL	48001.5		26335.1			
ANNUAL MEAN	132		72.0		57.6	
HIGHEST ANNUAL MEAN					302	
LOWEST ANNUAL MEAN					2.65	
HIGHEST DAILY MEAN	2350	Sep 10	260	Jun 2	6320	Jun 15 1965
LOWEST DAILY MEAN	3.7	Mar 12	4.8	Aug 3	.00	Jul 12 1928
ANNUAL SEVEN-DAY MINIMUM	4.2	Mar 11	6.2	Jul 29	.00	Jul 15 1934
INSTANTANEOUS PEAK FLOW			756	Aug 21	15000	Jun 3 1948
INSTANTANEOUS PEAK STAGE			3.67	Aug 21	12.79	Jun 3 1948
INSTANTANEOUS LOW FLOW			4.7	Aug 3		
ANNUAL RUNOFF (AC-FT)	95210		52240		41700	
10 PERCENT EXCEEDS	354		122		120	
50 PERCENT EXCEEDS	66		70		15	
90 PERCENT EXCEEDS	6.8		9.4		1.7	

ARKANSAS RIVER BASIN

07221500 CANADIAN RIVER NEAR SANCHEZ, NM

(Surveillance network station)

LOCATION.--Lat 35°39'08", long 104°22'39", in SW¼ sec.34, T.17 N., R.24 E., San Miguel County, Hydrologic Unit 11080003, on right bank 1,000 ft downstream from bridge on State Highway 419, 0.9 mi upstream from Lagartija Creek, 3.2 mi northeast of Sanchez, 10 mi downstream from Mora River, 25 mi southwest of Mosquero, and at mile 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	262	107	151	150	202	149	180	122	291	137	231	183
2	262	111	144	153	211	142	185	106	286	136	156	140
3	257	113	127	134	230	136	206	105	305	107	91	115
4	238	133	115	126	244	142	199	94	328	88	65	106
5	221	125	121	129	218	143	190	83	307	76	64	101
6	199	143	139	142	196	146	185	78	283	65	61	93
7	191	167	150	152	181	152	185	91	284	56	42	84
8	187	168	152	152	177	149	180	76	386	46	85	75
9	184	156	148	154	174	147	167	67	453	40	85	72
10	177	152	147	134	181	144	159	53	391	50	58	66
11	167	153	145	133	185	148	161	45	328	64	123	65
12	154	152	153	137	181	140	164	44	338	57	84	63
13	147	151	148	133	178	134	166	41	349	37	143	58
14	136	174	139	126	175	140	180	49	314	28	188	53
15	132	165	140	130	172	119	205	44	252	21	279	46
16	134	183	121	101	171	112	253	36	224	17	226	40
17	137	193	112	120	168	117	302	32	203	219	193	35
18	139	211	128	130	161	119	340	28	185	100	1170	30
19	131	203	147	130	154	113	329	27	174	100	872	31
20	121	201	159	131	144	111	321	30	161	89	433	33
21	112	195	163	141	147	112	326	25	301	59	577	37
22	105	176	178	130	157	107	302	33	309	125	387	34
23	101	173	176	129	156	106	258	52	277	429	280	29
24	99	184	176	138	151	107	216	86	179	435	255	28
25	105	163	170	140	148	105	190	134	143	360	315	25
26	115	146	157	148	148	106	164	204	650	252	214	25
27	115	169	161	165	146	98	144	215	317	177	312	26
28	105	169	169	163	146	108	140	260	197	131	240	24
29	104	165	158	167	148	103	157	260	127	107	200	23
30	101	156	140	168	---	102	154	440	112	96	171	22
31	104	---	148	177	---	136	---	353	---	184	224	---
TOTAL	4742	4857	4582	4363	5050	3893	6308	3313	8454	3888	7824	1762
MEAN	153	162	148	141	174	126	210	107	282	125	252	58.7
MAX	262	211	178	177	244	152	340	440	650	435	1170	183
MIN	99	107	112	101	144	98	140	25	112	17	42	22
AC-FT	9410	9630	9090	8650	10020	7720	12510	6570	16770	7710	15520	3490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1992, BY WATER YEAR (WY)

	MEAN	113	57.0	48.6	50.7	63.1	58.6	214	381	383	238	327	252
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1913 - 1992

ANNUAL TOTAL	85635.8	59036	
ANNUAL MEAN	235	161	185
HIGHEST ANNUAL MEAN			1191
LOWEST ANNUAL MEAN			19.7
HIGHEST DAILY MEAN	7160	Sep 10	1170
LOWEST DAILY MEAN	4.6	May 18	17
ANNUAL SEVEN-DAY MINIMUM	6.3	May 12	25
INSTANTANEOUS PEAK FLOW			3070
INSTANTANEOUS PEAK STAGE			7.49
INSTANTANEOUS LOW FLOW			15
ANNUAL RUNOFF (AC-FT)	169900	117100	133700
10 PERCENT EXCEEDS	553	281	340
50 PERCENT EXCEEDS	104	147	40
90 PERCENT EXCEEDS	19	51	4.0

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 1991 TO SEPTEMBER 1992

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 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)	
NOV													
13...	1230	150	842	8.4	19.0	7.5	2.5	642	11.2	20	<1	K3	
DEC													
09...	1200	156	990	8.2	12.5	3.5	1.6	652	12.4	--	K5	K7	
MAR													
31...	1300	144	869	8.3	17.0	14.0	7.5	642	9.5	--	K1	K14	
MAY													
19...	1215	27	830	8.1	28.0	23.0	1.4	650	7.8	18	22	23	
JUL													
15...	1230	21	1220	8.2	34.0	26.0	35	648	7.1	20	K34	51	
SEP													
02...	1130	171	838	8.2	28.5	20.0	200	646	7.5	39	170	140	
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)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	
NOV													
13...	410	210	91	43	69	1	2.4	226	8	199	330		
DEC													
09...	430	220	98	45	71	1	2.2	242	7	210	340		
MAR													
31...	410	240	87	46	71	2	1.9	194	5	167	330		
MAY													
19...	310	150	69	34	58	1	2.7	181	10	164	240		
JUL													
15...	440	280	92	51	96	2	4.5	173	10	158	450		
SEP													
02...	310	130	71	31	55	1	3.6	209	0	171	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, 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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)
NOV													
13...	20	0.40	11	674	687	0.020	<0.010	<0.050	<0.050	<0.010	<0.010	--	
DEC													
09...	19	0.40	11	744	713	<0.010	<0.010	<0.050	<0.050	<0.010	<0.010	--	
MAR													
31...	19	0.40	8.0	704	664	<0.010	<0.010	<0.050	<0.050	0.020	<0.010	0.18	
MAY													
19...	15	0.40	8.5	564	528	<0.010	<0.010	<0.050	<0.050	0.010	<0.010	0.29	
JUL													
15...	21	0.40	8.1	844	820	<0.010	<0.010	<0.050	0.096	0.010	0.030	0.39	
SEP													
02...	15	0.40	12	552	524	<0.010	<0.010	0.140	0.140	0.010	0.020	0.69	

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

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	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)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)
NOV 13...	0.20	--	0.020	0.010	<0.010	<0.010	3.5	<10	70	<3	6	33
DEC 09...	<0.20	--	<0.010	<0.010	0.010	<0.010	--	--	--	--	--	--
MAR 31...	0.20	--	<0.010	<0.010	<0.010	<0.010	--	--	--	--	--	--
MAY 19...	0.30	--	0.010	0.010	<0.010	<0.010	4.3	<10	83	<3	6	27
JUL 15...	0.40	--	0.030	<0.010	<0.010	<0.010	4.6	20	180	<3	<3	34
SEP 02...	0.70	0.84	0.200	0.030	0.020	0.010	11	550	96	<3	450	22

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)	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)
NOV 13...	8	<10	<1	<1	<1.0	1100	<6	4.0	1.3	70	340	3
DEC 09...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	15	<10	<1	<1	<1.0	990	<6	--	--	--	--	--
JUL 15...	8	<10	3	<1	<1.0	1400	<6	--	--	--	--	--
SEP 02...	20	<10	2	<1	<1.0	930	<6	--	--	--	--	--

DATE	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)	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 13...	1	1	<5	4	1500	10	540	<0.01	<10	16	6.5	84
DEC 09...	--	--	--	--	--	--	--	--	--	17	7.2	64
MAR 31...	--	--	--	--	--	--	--	--	--	38	15	83
MAY 19...	--	--	--	--	--	--	--	--	--	34	2.5	93
JUL 15...	--	--	--	--	--	--	--	--	--	89	5.0	97
SEP 02...	--	--	--	--	--	--	--	--	--	382	176	100

ARKANSAS RIVER BASIN

07222500 CONCHAS RIVER AT VARIADERO, NM

LOCATION.--Lat 35°24'10", long 104°26'35", in NE¼NE¼ 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. U.S. Army Corps of Engineers satellite telemeter at station. No flow many days each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	.00	.09	1.3	.69	.33	.57	.00	.03	.00	.09	.20
2	2.4	.00	.13	1.2	.68	.32	.54	.00	2.5	.00	.04	.11
3	1.3	.00	.16	1.1	.83	.33	.47	.00	1.4	.00	.01	.04
4	.79	.00	.18	1.1	.83	.41	.36	.00	.57	.00	.00	.02
5	.51	.00	.21	1.1	.75	.43	.32	.00	.22	.00	.33	.00
6	.39	.00	.21	1.3	.73	.45	.28	.00	.04	.00	.28	.00
7	.10	.00	.21	1.5	.74	.41	.27	.00	.00	.00	.05	.00
8	.03	.00	.23	1.3	.73	.42	.24	.00	.00	.00	.04	.00
9	.02	.00	.27	1.2	.71	.27	.20	.00	.00	.00	.01	.00
10	.02	.00	.28	1.2	.69	.33	.18	.00	.00	.00	.00	.00
11	.00	.00	.52	1.3	.65	.32	.15	.00	.00	.00	.00	.00
12	.00	.00	.99	1.2	.63	.32	.11	.00	.00	.00	.00	.00
13	.00	.02	.92	1.2	.62	.33	.09	.00	.00	.00	.00	.00
14	.00	.01	.79	1.0	.62	.26	.08	.00	.00	.00	.00	.00
15	.00	.00	1.4	1.0	.60	.24	.04	.00	.00	.00	.00	.00
16	.00	.60	1.3	1.0	.51	.23	.03	.00	.00	.00	.00	.00
17	.00	1.1	1.2	.94	.43	.20	.03	.00	.00	.00	.00	.00
18	.00	.74	1.1	.94	.39	.21	.00	.00	.00	.00	28	.00
19	.00	.75	1.2	.90	.36	.20	.00	.00	.00	.00	24	.00
20	.00	1.0	1.3	.85	.41	.21	.03	.00	.00	36	12	.00
21	.00	.84	1.3	.86	.39	.21	.08	.00	.00	7.7	32	.00
22	.00	.62	1.8	.84	.39	.14	.11	.00	8.3	2.3	12	.00
23	.00	.51	2.0	.79	.34	.16	.08	.00	6.1	27	4.6	.00
24	.00	.38	2.6	.79	.31	.16	.04	.00	2.4	7.0	2.7	.00
25	.00	.30	2.4	.77	.32	.17	.02	.00	1.2	1.9	1.4	.00
26	.00	.24	1.9	.73	.38	.18	.00	.07	.57	.90	.75	.00
27	.00	.19	1.6	.73	.43	.22	.00	.09	.22	.42	.43	.00
28	.00	.17	1.5	.73	.39	.37	.00	.01	.07	.18	.22	.00
29	.00	.16	1.4	.73	.38	.32	.00	.00	.02	.07	.58	.00
30	.00	.10	1.3	.73	---	.30	.00	.00	.00	.11	.64	.00
31	.00	---	1.3	.69	---	.35	---	.00	---	.13	.35	---
TOTAL	10.96	7.73	31.79	31.02	15.93	8.80	4.32	0.17	23.64	83.71	120.52	0.37
MEAN	.35	.26	1.03	1.00	.55	.28	.14	.005	.79	2.70	3.89	.012
MAX	5.4	1.1	2.6	1.5	.83	.45	.57	.09	8.3	36	32	.20
MIN	.00	.00	.09	.69	.31	.14	.00	.00	.00	.00	.00	.00
AC-FT	22	15	63	62	32	17	8.6	.3	47	166	239	.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1992, BY WATER YEAR (WY)

MEAN	8.81	1.73	.91	.74	.79	1.32	3.08	12.2	26.1	30.8	33.6	38.3
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 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1937 - 1992

ANNUAL TOTAL	2342.18	338.96	
ANNUAL MEAN	6.42	.93	13.3
HIGHEST ANNUAL MEAN			108
LOWEST ANNUAL MEAN			.18
HIGHEST DAILY MEAN	692	Sep 10	11700
LOWEST DAILY MEAN	.00	May 14	.00
ANNUAL SEVEN-DAY MINIMUM	.00	May 14	.00
INSTANTANEOUS PEAK FLOW			129
INSTANTANEOUS PEAK STAGE			2.23
ANNUAL RUNOFF (AC-FT)	4650	672	9600
10 PERCENT EXCEEDS	8.8	1.3	9.0
50 PERCENT EXCEEDS	.20	.16	.12
90 PERCENT EXCEEDS	.00	.00	.00

ARKANSAS RIVER BASIN

07223300 CONCHAS CANAL BELOW CONCHAS DAM, NM

LOCATION.--Lat 35°22'51", long 104°10'58", San Miguel County, Hydrologic Unit 11080006, in Pablo Montoya Grant, in Conchas Canal Operations building downstream from Conchas Dam, and 21.5 mi north of Newkirk.

PERIOD OF RECORD.--September 1945 to June 1949, April 1954 to June 1955, September 1961 to October 1982, October 1984 to September 1992 (discontinued).

REMARKS.--Water is diverted from Conchas Lake for irrigation of about 35,000 acres on Tucumcari Project (1966 conditions).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 751 ft³/s, Aug. 31, 1961; no flow many days each year.

MONTHLY DIVERSION, IN ACRE-FEET, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

Month	Mean	Diversion in acre-feet
October.....	180	11,070
November.....	0	0
December.....	0	0
January.....	0	0
February.....	0	0
March.....	0	0
April.....	206	12,280
May.....	184	11,340
June.....	118	7,020
July.....	255	15,660
August.....	158	9,710
September.....	220	13,090
WTR YR 1992.....	111	80,170

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 746.0.

DRAINAGE AREA.--7,409 mi², of which 433 mi², is probably noncontributing.

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, 315,700 acre-ft between elevations 4,060.0 ft and 4,201.0 ft, crest of 300 ft ungated service spillway, based on capacity table dated January 1, 1988. 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, 307,370 acre-ft, Apr. 1-4, elevation, 4,200.12 ft; minimum, 269,320 acre-ft, Oct. 29, elevation, 4,195.86 ft.

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

(Based on Survey by U.S. Army Corps of Engineers in 1988)

4,190	223,360
4,200	306,240
4,210	412,140

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	276320	269490	278740	288000	294870	302690	307370	303710	296880	302130	292230	295690
2	276320	269570	278910	288270	295230	302880	307370	303160	297340	301480	292410	295320
3	276320	269820	279180	288450	295780	303250	307370	302880	297890	301210	291960	294230
4	276140	269820	279440	288630	296330	303430	307370	302410	298440	300840	291780	294050
5	275970	269990	279520	288900	296690	303620	307270	301950	299270	300470	292230	293680
6	275970	270160	279790	289710	297060	303810	307180	301480	299730	300100	292050	293320
7	275970	270330	280130	289620	297430	303990	306990	301210	300560	299360	291600	293050
8	275630	270670	280130	289800	297790	304180	306990	300650	300560	298620	291240	292960
9	275450	270840	280480	289980	297980	304180	306800	300100	300130	297890	290880	292320
10	275370	271010	280660	290340	298160	304370	306610	299540	301760	297240	290430	292410
11	275280	271690	281360	290700	298530	304550	306330	299170	302230	296790	290160	292140
12	275020	272030	281530	290700	298900	304740	306240	298620	302410	295870	289710	291690
13	274680	272200	281890	290880	299080	304930	306050	298350	302880	295140	288990	289890
14	274420	272540	282060	291060	299270	305110	305860	297700	303060	294590	288810	289440
15	274080	273220	282240	291240	299640	305300	305490	297340	303060	294050	288630	288900
16	273740	274250	282410	291420	300000	305300	305400	296970	302970	292960	289170	288900
17	273400	274420	282590	291420	300000	305490	305400	296420	302780	293960	289350	288720
18	273050	274770	283120	291600	300190	305580	305490	296050	302500	293770	290430	287380
19	272710	275280	283470	291780	300370	305680	305770	295510	302320	293230	291870	287020
20	272370	275630	283820	291870	300740	305860	305860	295140	302040	292870	292780	286310
21	272120	276060	284270	292320	300930	305770	306050	294410	301670	292600	293320	285600
22	271780	276320	284970	292500	301210	305860	305860	294140	302130	293050	293870	284970
23	271270	276660	285330	292690	301300	305960	305960	294230	302320	293050	293680	284530
24	271010	277010	285600	292690	301390	306050	305680	294230	302410	293590	293870	284000
25	270670	277350	285950	293050	301580	306050	305580	294230	302320	293770	294140	283030
26	270420	277530	286310	293230	301950	306050	305490	294230	302500	292960	294410	282410
27	270250	277870	286570	293410	302130	306520	305490	294230	303060	292960	294780	281530
28	269820	278050	287020	293770	302320	306520	304740	294410	303160	292780	294870	280830
29	269320	278220	287290	293960	302500	306430	304550	294780	302970	292410	294870	280130
30	269490	278390	287560	294230	---	306610	304180	295140	302690	292140	294870	279440
31	269660	---	287730	294500	---	306990	---	296050	---	291960	295690	---
MAX	276320	278390	287730	294500	302500	306990	307370	303710	303160	302130	295690	295690
MIN	269320	269490	278740	288000	294870	302690	304180	294140	296880	291960	288630	279440
(†)	4195.90	4196.92	4197.98	4198.73	4199.60	4200.08	4199.78	4198.90	4199.62	4198.45	4198.86	4197.04
(††)	-6480	+8730	+9340	+6770	+8000	+4490	-2810	-8130	+6640	-10730	+3730	-16250
CAL YR 1991	MAX 287730	MIN 160870	(††) +99660									
WTR YR 1992	MAX 307370	MIN 269320	(††) +3300									

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

(††) CHANGE IN CONTENTS, IN ACRE-FEET

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 mile 673.1.

DRAINAGE AREA.--11,140 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, 246,620 acre-ft at elevation 3,787.0 ft, crest of labyrinth spillway. Top of dam is at elevation 3,812.0 ft. Maximum design capacity of 440,250 acre-ft at elevation 3,806.0 ft, 19.0 ft above crest of spillway, allows 193,600 acre-ft of capacity for protection of the structure. Dead storage, 10,900 acre-ft at elevation 3,725.0 ft, sill of outlet intake tower; inactive pool of 25,140 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, 234,750 acre-ft, Oct. 1, elevation, 3,785.48 ft; minimum, 220,690 acre-ft, May 28, elevation, 3,783.62 ft.

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

(Based on survey by Geological Surveys and New Mexico Interstate Stream Commission 1983)

3,744	41,110	3,780	195,000
3,760	89,600	3,788	255,000

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	234750	227750	228360	226770	224640	224870	224030	222760	223730	230640	230260	233450
2	234060	227600	228290	226160	224640	225100	224100	222170	224560	229800	230340	233450
3	233380	227680	228290	225400	224940	224790	224180	222170	224560	229880	230260	233230
4	232310	227830	228290	224870	224940	225020	224180	222170	223350	230110	230030	233070
5	231700	227750	228290	224260	225100	224560	224030	222020	223420	229960	230260	232850
6	231100	227750	228290	224180	225020	224560	224180	222090	223280	229800	231020	232770
7	230260	227750	228510	223950	224940	224640	224060	221940	223350	229500	230950	232770
8	229800	227830	228210	223800	225100	224710	223950	221940	223210	229270	230800	232540
9	229730	227680	228510	223800	225100	224100	224100	221720	223060	229050	230800	232310
10	229730	227680	228590	223800	225170	224180	224180	221570	223060	229800	230260	231860
11	229730	227450	228510	224100	225100	224330	224030	221570	223280	229200	230340	231780
12	229650	227370	228740	223730	225320	224330	224030	221210	223130	228820	230340	231630
13	229430	227750	228670	223800	225250	224330	224180	221280	223200	228510	230260	231780
14	229350	227370	228510	223950	225170	224410	224260	221210	223130	228130	229880	231930
15	229050	227600	228670	223950	225400	224260	223950	221130	222760	227900	230030	232010
16	229050	228130	228740	224330	225470	224410	223800	221210	222610	227900	229960	232160
17	228900	228670	228740	224330	225170	224330	224030	220910	222240	228210	230410	232160
18	228590	228360	228900	224260	224940	224100	223880	220980	222090	228740	232470	231700
19	228510	228590	229270	224330	224940	224260	223730	220980	222090	228900	233000	231780
20	228440	228590	229270	224180	225100	224180	224030	220980	224710	228820	233150	231700
21	228440	228740	229960	224410	224940	223950	223950	220760	227600	229050	233070	231330
22	228440	228510	230260	224260	225170	223650	224030	220690	228820	229050	233000	231250
23	228290	228670	230340	224330	225250	223800	223800	220910	229050	228900	233300	231100
24	227980	228510	230410	224330	224790	223880	223730	221060	229050	228900	233150	231020
25	227900	228670	230720	224490	224940	223650	223730	220910	228900	228510	232920	230800
26	227980	228670	230410	224330	224940	223500	223800	221130	229960	230490	234290	230490
27	227830	228820	229800	224330	224940	223950	222910	220910	230260	230640	234520	230410
28	227370	228670	229200	224560	224940	224030	222830	220690	230570	230640	234370	230260
29	227450	228510	228740	224330	225170	223880	222830	220980	230570	230570	234290	230030
30	227370	228360	228130	224640	---	223880	222830	222830	230410	229960	234290	229960
31	227530	---	227370	224710	---	223950	---	223500	---	230260	233230	---
MAX	234750	228820	230720	226770	225470	225100	224260	223500	230570	230640	234520	233450
MIN	227370	227370	227370	223730	224640	223500	222830	220690	222090	227900	229880	229960
(†)	3784.53	3784.64	3784.51	3784.16	3784.22	3784.06	3783.91	3784.00	3784.91	3784.89	3785.28	3784.85
(††)	-7820	830	-990	-2660	460	-1220	-1120	670	6910	-150	2970	-3270

CAL YR 1991 MAX 247800 MIN 219580 (††) +980
WTR YR 1992 MAX 234750 MIN 220690 (††) -5390

(†) 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 from 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 1991 TO SEPTEMBER 1992

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 DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
JUN											
18...	0910	1.00	80.0	--	--	--	21.0	667	8.3	--	--
18...	0911	5.00	80.0	1040	8.4	--	20.5	667	8.3	--	--
18...	0912	10.0	80.0	--	--	--	20.5	667	8.4	--	--
18...	0913	15.0	80.0	--	--	--	20.5	667	8.3	--	--
18...	0914	20.0	80.0	--	--	--	20.5	667	8.3	--	--
18...	0915	25.0	80.0	--	--	--	20.0	667	8.0	--	--
18...	0916	30.0	80.0	--	--	--	19.5	667	7.9	--	--
18...	0917	35.0	80.0	--	--	--	18.5	667	7.6	--	--
18...	0918	40.0	80.0	1040	8.3	--	17.0	667	7.0	--	--
18...	0919	45.0	80.0	--	--	--	16.0	667	6.7	--	--
18...	0920	50.0	80.0	--	--	--	15.5	667	6.0	--	--
18...	0921	55.0	80.0	--	--	--	15.0	667	5.6	--	--
18...	0922	60.0	80.0	--	--	--	15.0	667	5.2	--	--
18...	0923	65.0	80.0	--	--	--	14.0	667	4.5	--	--
18...	0924	70.0	80.0	--	--	--	13.5	667	4.3	--	--
18...	0925	75.0	80.0	1020	8.0	26.0	13.5	667	4.1	13	<1

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	STREP- TOCOC 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- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
JUN											
18...	K1	250	64	47	32	130	4	6.3	226	0	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)	SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	SOLIDS, NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	
JUN											
18...	260	51	0.60	2.2	641	<0.010	<0.010	0.058	0.058	<0.010	
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	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)	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)
JUN											
18...	0.020	0.30	0.36	0.020	<0.010	<0.010	4.6	1	1	180	<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 1991 TO SEPTEMBER 1992

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)
JUN 18...	<1.0	<1	<1	<1	<1	8	<1	<1	<0.10	<0.1
DATE	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)
JUN 18...	<1	<1	<10	12	<2.0	49	1200	2100	9	2
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)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JUN 18...	10	10	20	7700	20	510	0.02	40	13	94

ARKANSAS RIVER BASIN

07227000 CANADIAN RIVER AT LOGAN, NM

LOCATION.--Lat 35°21'25", long 103°25'03", in NE¼NE¼ 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.

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.--Records poor. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	347	3.7	3.8	320	3.8	3.8	4.0	3.7	3.7	4.1	4.7	191
2	348	3.7	3.8	319	3.9	3.8	4.0	3.5	3.6	4.1	5.2	5.3
3	349	3.7	3.9	317	3.8	3.9	3.9	3.5	3.7	4.1	4.6	5.0
4	349	3.7	3.8	317	3.5	3.9	4.0	3.5	3.7	4.1	4.5	5.2
5	349	3.8	3.9	315	3.7	4.0	3.9	3.7	3.6	4.1	4.6	5.0
6	349	3.7	3.8	238	3.5	4.0	4.0	3.6	3.7	4.1	5.2	4.5
7	348	3.8	3.8	8.3	3.4	3.9	4.0	3.4	3.8	4.1	5.3	4.3
8	236	3.8	4.0	7.0	3.5	3.8	4.0	3.5	3.9	4.1	4.9	3.9
9	1.8	3.9	3.9	6.4	3.4	4.0	4.0	3.8	3.9	4.3	4.8	3.9
10	.96	4.1	3.9	5.8	3.4	3.7	4.1	3.7	3.9	4.3	4.8	3.9
11	1.9	4.4	4.0	5.7	3.5	4.0	4.1	4.2	3.9	4.3	4.8	4.0
12	3.4	4.2	4.0	5.3	3.6	4.0	4.0	3.5	4.0	4.4	4.8	4.1
13	3.6	4.5	4.1	4.9	3.3	4.0	4.0	3.6	4.0	4.4	4.8	4.3
14	3.7	4.9	4.3	4.9	3.7	4.0	4.0	3.8	4.1	4.4	4.8	4.5
15	3.8	5.1	4.5	4.9	3.6	4.0	4.1	3.6	4.0	4.4	4.9	5.0
16	4.6	6.5	4.5	4.9	6.7	4.0	4.1	3.7	4.1	4.5	4.8	5.0
17	5.6	5.4	4.7	4.6	3.9	4.0	4.0	3.1	4.0	4.4	5.0	4.9
18	6.8	10	4.6	4.4	3.8	4.0	3.9	3.4	4.1	4.6	5.1	4.9
19	7.2	3.8	4.8	4.3	3.4	3.6	4.1	3.4	4.1	4.7	4.4	5.1
20	7.9	3.7	4.8	4.2	3.2	3.5	4.0	3.5	6.1	4.7	4.3	5.1
21	8.3	4.0	5.0	4.7	3.2	3.3	4.0	3.4	4.7	4.6	4.3	4.9
22	8.7	4.0	5.1	3.8	3.7	3.8	3.8	3.4	4.8	4.7	4.3	4.4
23	11	4.0	5.4	4.1	3.3	2.8	4.3	3.9	3.6	4.8	4.8	1.9
24	4.1	4.1	5.3	3.9	3.5	3.3	4.0	3.9	3.4	4.6	5.3	1.9
25	3.7	4.1	5.5	3.8	3.7	3.5	3.7	3.5	3.5	4.5	5.3	2.0
26	3.8	4.1	137	4.2	3.8	3.5	3.8	3.4	4.0	4.5	5.7	2.0
27	3.7	4.1	329	3.5	3.5	3.7	3.9	3.5	4.0	4.9	193	2.1
28	8.1	4.7	328	3.8	3.6	3.9	3.9	3.6	4.1	4.8	134	2.2
29	3.8	24	326	3.5	3.6	4.0	3.8	3.4	4.1	4.7	5.3	2.3
30	3.7	3.9	324	3.7	---	3.9	3.7	3.6	4.1	4.7	5.0	2.4
31	3.8	---	323	3.6	---	3.9	---	4.1	---	4.6	214	---
TOTAL	2788.96	151.4	1876.2	1944.2	106.5	117.5	119.1	111.4	120.2	137.6	677.3	305.0
MEAN	90.0	5.05	60.5	62.7	3.67	3.79	3.97	3.59	4.01	4.44	21.8	10.2
MAX	349	24	329	320	6.7	4.0	4.3	4.2	6.1	4.9	214	191
MIN	.96	3.7	3.8	3.5	3.2	2.8	3.7	3.1	3.4	4.1	4.3	1.9
AC-FT	5530	300	3720	3860	211	233	236	221	238	273	1340	605

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1992, BY WATER YEAR (WY)

	MEAN	34.9	29.3	7.35	8.08	10.2	3.06	16.3	28.3	48.6	70.5	82.7	86.5
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1963 - 1992

ANNUAL TOTAL	13353.36	8455.36	
ANNUAL MEAN	36.6	23.1	35.6
HIGHEST ANNUAL MEAN			145
LOWEST ANNUAL MEAN			1.62
HIGHEST DAILY MEAN	866	Sep 12	6860
LOWEST DAILY MEAN	.96	Oct 10	.10
ANNUAL SEVEN-DAY MINIMUM	2.3	May 23	.10
INSTANTANEOUS PEAK FLOW			219000
INSTANTANEOUS PEAK STAGE			29.30
ANNUAL RUNOFF (AC-FT)	26490	16770	25760
10 PERCENT EXCEEDS	26	6.6	8.4
50 PERCENT EXCEEDS	4.0	4.0	2.4
90 PERCENT EXCEEDS	3.3	3.5	1.6

ARKANSAS RIVER BASIN

07227000 CANADIAN RIVER AT LOGAN, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957-62, February to September 1992.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	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)
FEB 19...	1430	3.2	5010	8.0	14.5	9.0	666	10.2	390	79	46
MAY 27...	1230	3.3	7740	8.0	23.5	21.0	660	7.6	520	110	59
JUL 17...	1315	4.1	7420	7.9	28.0	25.0	670	9.4	540	110	65

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)
FEB 19...	840	19	8.1	274	380	1100	1.0	7.6	2630	300	<10
MAY 27...	1400	27	8.5	320	480	2100	1.4	11	4360	340	<10
JUL 17...	1300	24	9.5	322	440	1800	0.90	10	3930	340	40

ARKANSAS RIVER BASIN

07227100 REVUELTO CREEK NEAR LOGAN, NM

LOCATION.--Lat 35°20'29", long 103°23'37", in SW/4NW/4 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 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	e6.7	e5.2	33	4.0	4.8	12	9.0	104	4.9	8.5	62
2	15	e6.3	e5.0	29	4.1	4.6	6.2	7.4	112	3.9	41	68
3	23	e6.4	e4.8	27	8.5	4.4	5.5	7.8	61	3.6	11	82
4	20	e7.1	e4.4	29	35	4.2	5.0	13	41	5.4	15	60
5	17	e8.0	e4.2	26	16	4.2	4.0	26	16	4.8	12	49
6	14	e.60	e4.2	29	9.8	4.2	2.7	34	4.5	4.0	142	46
7	17	e9.5	e3.6	186	7.5	4.3	4.8	29	2.5	3.3	128	27
8	18	11	e3.5	46	7.0	3.4	15	19	11	1.7	96	16
9	17	8.8	e4.5	19	6.8	3.1	23	14	1.2	.85	32	12
10	12	7.0	5.5	12	6.9	2.9	18	11	.47	3.5	16	9.1
11	11	11	4.9	11	6.8	3.8	12	13	.89	5.5	11	8.5
12	14	38	7.5	10	6.4	3.7	10	13	.01	4.5	14	8.2
13	10	20	6.7	7.3	6.3	3.3	13	12	1.5	5.7	13	7.6
14	12	14	5.0	7.3	5.6	3.0	16	13	.00	6.3	12	7.2
15	12	11	4.7	6.3	5.4	3.0	15	9.0	.00	6.5	16	6.9
16	9.9	381	5.2	7.1	4.4	2.9	14	13	.00	6.4	20	53
17	9.1	131	5.2	8.6	3.0	2.6	14	17	.00	83	34	11
18	9.5	50	5.8	5.7	2.4	2.3	15	18	.00	123	1080	9.1
19	6.8	56	45	5.4	4.8	2.6	22	7.9	.00	16	142	7.3
20	11	87	159	6.3	5.5	2.6	39	6.3	121	9.6	101	6.9
21	11	39	127	7.2	5.1	2.3	39	8.3	452	17	13	7.0
22	11	29	554	5.9	4.8	2.0	27	10	905	36	28	6.6
23	9.9	23	174	4.9	4.8	2.3	21	73	128	25	28	6.0
24	12	15	135	6.2	4.7	2.2	20	168	42	19	29	5.8
25	14	12	85	5.5	4.7	2.1	17	122	23	17	291	4.9
26	11	8.1	87	4.9	4.9	2.3	14	87	14	479	120	4.6
27	9.8	7.3	98	4.8	4.7	8.5	13	89	182	854	407	4.3
28	7.7	6.8	64	4.8	4.6	8.0	12	107	48	214	80	67
29	8.5	6.3	52	4.3	4.8	5.1	11	51	10	80	36	3.9
30	7.0	e5.6	44	4.1	---	4.1	9.2	137	6.5	29	17	3.4
31	e7.1	---	40	4.0	---	11	---	528	---	13	21	---
TOTAL	378.3	1022.50	1753.9	567.6	199.3	119.8	449.4	1672.7	2287.57	2085.45	3014.5	670.3
MEAN	12.2	34.1	56.6	18.3	6.87	3.86	15.0	54.0	76.3	67.3	97.2	22.3
MAX	23	381	554	186	35	11	39	528	905	854	1080	82
MIN	6.8	.60	3.5	4.0	2.4	2.0	2.7	6.3	.00	.85	8.5	3.4
AC-FT	750	2030	3480	1130	395	238	891	3320	4540	4140	5980	1330
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1992, BY WATER YEAR (WY)

	MEAN	35.7	9.16	10.4	5.66	7.85	6.40	24.2	48.3	70.1	122	127	74.6
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1959 - 1992

ANNUAL TOTAL	28629.78	14221.32	
ANNUAL MEAN	78.4	38.9	44.9
HIGHEST ANNUAL MEAN			204
LOWEST ANNUAL MEAN			4.72
HIGHEST DAILY MEAN	3530	1080	13800
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.01	.21	.00
INSTANTANEOUS PEAK FLOW		6030	26700
INSTANTANEOUS PEAK STAGE		7.58	14.30
ANNUAL RUNOFF (AC-FT)	56790	28210	32510
10 PERCENT EXCEEDS	130	87	59
50 PERCENT EXCEEDS	6.7	10	5.0
90 PERCENT EXCEEDS	.54	3.4	.00

ARKANSAS RIVER BASIN

07227100 REVUELTO CREEK NEAR LOGAN, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	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 08...	1030	11	1530	8.5	11.0	9.0	673	11.2	370	74	46
FEB 19...	1530	4.5	2520	8.7	17.0	16.0	666	9.0	470	78	68
MAY 26...	1500	66	1450	8.5	18.0	22.5	665	7.4	350	71	41
JUL 17...	1345	6.8	1570	8.4	32.0	31.5	670	7.2	320	59	43

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 08...	210	5	5.0	251	440	90	0.70	8.0	1020	230	3
FEB 19...	420	8	4.0	282	810	170	0.70	7.9	1730	400	<10
MAY 26...	190	4	5.8	230	410	60	0.60	9.8	926	260	<3
JUL 17...	200	5	6.1	192	450	78	0.50	7.8	960	270	<3

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, November 1991 to September 1992.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	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 07...	1400	30	5800	8.5	9.0	6.0	678	11.2	500	100	60
FEB 19...	1130	18	9000	8.3	11.0	7.0	674	12.4	730	150	87
MAY 27...	1015	40	3710	8.4	22.0	18.0	664	8.2	380	75	47
JUL 17...	1000	12	7680	8.3	23.5	23.5	676	7.7	560	100	76

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 07...	980	19	7.5	254	460	1300	1.1	10	3070	320	<10
FEB 19...	1800	29	11	297	570	2400	1.2	10	5210	490	20
MAY 27...	640	14	6.2	236	450	750	0.70	9.0	2120	320	<10
JUL 17...	1300	24	9.8	258	520	1900	0.40	8.7	4070	400	<10

08251500 RIO GRANDE NEAR LOBATOS, CO
(National stream-quality accounting network station)

WATER-DISCHARGE RECORDS

REVISED 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 National Geodetic Vertical
Datum of 1929. Prior to 1910, nonrecording gages at same site and datum.
REMARKS.--Estimated daily discharges: Nov. 1-4, 7, 8 and Nov. 21 to Mar. 21. Records good except for estimated
daily discharges, which are fair. Natural flow of stream affected by transmountain diversions, storage
reservoirs, ground-water withdrawals and diversions for irrigation, and return flow from irrigated areas.
COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological
Survey.

DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1992, BY WATER YEAR (WY)												
MEAN	178	320	283	256	306	411	539	1135	1245	420	157	118
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

WATER YEARS 1931 - 1992

ANNUAL TOTAL	157240	124116	a447	1264	1987	
ANNUAL MEAN	431	339	70.9		1964	
HIGHEST ANNUAL MEAN						
LOWEST ANNUAL MEAN						
HIGHEST DAILY MEAN	2010	May 23	1670	Apr 15	b9110	Jun 22 1949
LOWEST DAILY MEAN	53	Sep 4	50	Sep 18	c.00	Jul 16 1950
ANNUAL SEVEN-DAY MINIMUM	62	Oct 16	58	Sep 13	.00	Jul 16 1950
INSTANTANEOUS PEAK FLOW			1700	Apr 15	d11600	May 8 1952
INSTANTANEOUS PEAK STAGE			e3.25	Apr 15	8.76	May 8 1952
INSTANTANEOUS LOW FLOW			50	Sep 18		
ANNUAL RUNOFF (AC-FT)	311900	246200			324000	
10 PERCENT EXCEEDS	960	818			952	
50 PERCENT EXCEEDS	300	275			237	
90 PERCENT EXCEEDS	93	77			39	

e-Maximum gage height, 3.77 ft, Mar 18, backwater from ice.

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 Resources Division, U.S. Geological Survey.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
OCT 11...	0915	73	276	8.3	10.5	2.9	8.7	K5	K6
DEC 30...	1100	300	259	7.9	0.0	1.9	10.2	K7	K8
FEB 26...	1430	270	241	8.0	0.0	2.6	11.2	K4	51
JUN 23...	1130	485	486	8.5	21.5	6.1	10.4	25	15
AUG 26...	1030	728	188	7.9	17.5	70	6.0	5000	10000

DATE	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	(A) BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3)	(B) CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3)
OCT 11...	85	26	4.8	21	34	1	3.9	--	--
DEC 30...	54	15	3.9	32	55	2	3.3	114	0
FEB 26...	77	24	4.1	18	33	0.9	3.1	92	0
JUN 23...	130	38	8.5	42	40	2	6.1	139	0
AUG 26...	52	16	2.9	12	32	0.7	3.7	69	0

DATE	(C) ALKA-LINITY WAT DIS TOT IT FIELD (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)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)
OCT 11...	--	25	6.2	0.40	25	183	179	36.3
DEC 30...	94	29	5.9	0.30	33	158	180	128
FEB 26...	75	31	7.1	0.20	28	162	162	118
JUN 23...	115	100	17	0.50	23	330	304	432
AUG 26...	56	19	4.0	0.20	17	115	109	226

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.

D Based on non-ideal colony counts.

RIO GRANDE BASIN

08251500 RIO GRANDE NEAR LOBATOS, CO -- Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT 11...	<0.01	<0.05	<0.01	<0.01	<0.20	0.05	0.04	0.04
DEC 30...	0.01	0.27	0.02	0.01	<0.20	0.04	0.04	0.03
FEB 26...	<0.01	0.21	0.05	0.04	0.30	0.06	0.05	0.04
JUN 23...	<0.01	<0.05	0.02	0.02	0.70	0.09	0.04	0.05
AUG 26...	<0.01	<0.05	<0.01	<0.01	1.6	0.62	0.05	0.04

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
OCT 11...	<10	24	<3	41	7	5	<10	<1	<1	<1	210	<6
FEB 26...	<10	22	<3	25	10	7	<10	<1	<1	<1	170	<6
JUN 23...	20	28	<3	65	8	16	<10	1	<1	<1	370	<6
AUG 26...	30	19	<3	50	<4	13	<10	1	<1	<1	130	<6

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
DEC 30...	1100	1.4	<0.6	2.6	<0.6	3.4	<0.6	0.04	0.95
JUN 23...	1130	2.8	<0.6	6.8	0.6	8.8	0.7	0.03	1.3

RIO GRANDE BASIN

08251500 RIO GRANDE NEAR LOBATOS, CO -- Continued

CROSS-SECTION DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	TEMPER- ATURE WATER (DEG C)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	OXYGEN, DIS- SOLVED (MG/L)	SEDI- MENT, SUS- PENDED (MG/L)
FEB							
26...	1431	22.0	0.0	238	8.0	11.2	10
26...	1432	44.0	0.0	240	8.0	11.2	4
26...	1433	66.0	0.0	241	8.0	11.2	10
26...	1434	88.0	0.0	249	8.0	11.2	3
JUN							
23...	1131	24.0	22.0	488	8.6	10.8	9
23...	1132	39.0	21.5	486	8.6	10.2	9
23...	1133	54.0	21.5	486	8.5	10.1	8
23...	1134	64.0	21.5	486	8.5	10.1	13
23...	1135	74.0	21.0	487	8.5	10.1	13
23...	1136	84.0	21.0	486	8.5	10.1	13
23...	1137	94.0	21.0	485	8.5	10.2	13
23...	1138	104	21.5	485	8.5	10.4	14
23...	1139	114	21.5	485	8.5	10.6	17
23...	1140	134	22.0	482	8.6	11.8	13

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT					
11...	0915	73	11	2.3	--
DEC					
30...	1100	300	5	4.4	--
FEB					
26...	1430	270	7	5.2	--
JUN					
23...	1130	485	12	16	--
AUG					
26...	1030	728	265	521	94

RIO GRANDE BASIN

08252500 COSTILLA CREEK ABOVE COSTILLA DAM, NM

LOCATION.--Lat 36°53'52", long 105°15'16", Taos County, Hydrologic Unit 13020101, in Sangre de Cristo Grant, on left bank 1,900 ft upstream from normal high-water line of Costilla Reservoir, 2.1 mi northeast of Costilla Dam, 16 mi southeast of Costilla, and at mile 36.9.

DRAINAGE AREA.--25.1 mi².

PERIOD OF RECORD.--April 1937 to current year (no winter records). Monthly discharge only for some periods, published in WSP 1312 and 1732. Prior to October 1951, published as "above reservoir, near Costilla."

REVISED RECORDS.--WSP 878: 1937. WSP 1923: 1937-50, drainage area.

GAGE.--Water-stage recorder. Concrete control since Sept. 17, 1965. Elevation of gage is 9,430 ft above National Geodetic Vertical Datum of 1929, from topographic map. See WSP 1923 for history of changes prior to Sept. 17, 1965.

REMARKS.--Records good. Natural flow may be augmented by transbasin diversions or irrigation returns from about 1,300 acres irrigated from Casias Creek (station 08253000). Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,870 ft³/s, July 22, 1954, gage height, about 4.8 ft, from floodmarks, site and datum then in use, on basis of slope-area measurement of peak flow; minimum not determined. The flood in 1954 destroyed the gaging station and is highest since about 1909, from information by local range rider. A portion of this flow may have originated in Casias Creek basin (see REMARKS).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 23	1730	77	3.02	June 9	2300	61	2.86
May 30	1700	*81	*3.04				

Minimum recorded, 2.0 ft³/s, Oct. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	---	---	---	---	---	---	34	51	9.4	4.3	4.0
2	6.5	---	---	---	---	---	---	35	42	8.8	4.3	3.7
3	6.0	---	---	---	---	---	---	37	35	8.5	4.2	3.6
4	5.8	---	---	---	---	---	---	35	33	9.0	4.1	3.4
5	5.6	---	---	---	---	---	---	31	39	7.8	4.5	3.2
6	5.5	---	---	---	---	---	---	31	36	6.9	4.7	3.2
7	5.5	---	---	---	---	---	---	34	32	6.5	4.6	3.1
8	5.4	---	---	---	---	---	---	32	35	6.8	4.3	3.0
9	5.3	---	---	---	---	---	---	31	37	7.2	4.5	2.8
10	5.2	---	---	---	---	---	---	30	36	7.1	5.9	2.9
11	5.1	---	---	---	---	---	---	27	29	7.6	6.1	2.9
12	5.0	---	---	---	---	---	---	25	28	7.8	4.7	2.8
13	4.9	---	---	---	---	---	---	29	26	8.6	4.6	2.8
14	4.8	---	---	---	---	---	---	28	24	6.6	6.3	3.0
15	4.8	---	---	---	---	---	---	28	23	6.0	5.5	3.2
16	4.7	---	---	---	---	---	---	27	21	5.8	4.9	3.0
17	4.6	---	---	---	---	---	---	26	19	5.5	5.3	2.9
18	4.5	---	---	---	---	---	---	24	18	5.3	4.5	3.0
19	4.5	---	---	---	---	---	---	25	17	5.5	4.0	4.0
20	4.6	---	---	---	---	---	---	27	17	5.5	3.8	3.3
21	4.6	---	---	---	---	---	---	28	16	9.5	4.5	3.3
22	4.5	---	---	---	---	---	---	27	15	5.9	3.8	3.1
23	4.5	---	---	---	---	---	---	56	15	5.5	3.8	3.0
24	4.4	---	---	---	---	---	---	43	15	5.1	7.7	2.9
25	e4.1	---	---	---	---	---	---	33	15	6.1	6.5	2.9
26	e4.0	---	---	---	---	---	---	29	15	9.2	8.5	2.9
27	e4.0	---	---	---	---	---	---	35	13	6.1	6.8	2.9
28	e3.7	---	---	---	---	---	---	51	13	5.1	4.5	2.9
29	e3.5	---	---	---	---	---	---	52	12	4.8	4.1	3.0
30	e3.0	---	---	---	---	---	---	59	11	4.5	3.9	2.9
31	e3.0	---	---	---	---	---	---	50	---	4.4	4.3	---
TOTAL	149.0	---	---	---	---	---	---	1059	738	208.4	153.5	93.6
MEAN	4.81	---	---	---	---	---	---	34.2	24.6	6.72	4.95	3.12
MAX	7.4	---	---	---	---	---	---	59	51	9.5	8.5	4.0
MIN	3.0	---	---	---	---	---	---	24	11	4.4	3.8	2.8
AC-FT	296	---	---	---	---	---	---	2100	1460	413	304	186

e Estimated

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 northeast of Costilla Dam, and 16 mi southeast of Costilla.

DRAINAGE AREA.--16.6 mi².

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. See also PERIOD OF RECORD.

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. 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 181 ft³/s, July 20, 1971, gage height, 2.07 ft, from rating curve extended above 85 ft³/s; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 35 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 30	1400	*54	*1.19	No other peak greater than base discharge.			

Minimum recorded, 3.4 ft³/s, Oct. 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	---	---	---	---	---	---	20	41	32	15	9.2
2	7.1	---	---	---	---	---	---	20	37	31	14	8.7
3	7.0	---	---	---	---	---	---	23	37	29	14	8.6
4	7.1	---	---	---	---	---	---	23	36	28	14	8.3
5	6.9	---	---	---	---	---	---	23	44	26	14	8.1
6	6.9	---	---	---	---	---	---	24	46	25	14	7.8
7	6.9	---	---	---	---	---	---	25	45	25	14	7.4
8	6.9	---	---	---	---	---	---	24	44	26	14	7.1
9	6.6	---	---	---	---	---	---	26	45	26	13	6.9
10	6.6	---	---	---	---	---	---	26	46	25	16	6.7
11	6.4	---	---	---	---	---	---	26	44	25	15	6.6
12	6.4	---	---	---	---	---	---	25	44	26	14	6.2
13	6.3	---	---	---	---	---	---	26	45	27	13	6.2
14	6.1	---	---	---	---	---	---	27	45	25	15	6.5
15	6.1	---	---	---	---	---	---	29	46	24	13	6.9
16	5.9	---	---	---	---	---	---	31	45	22	12	6.7
17	5.8	---	---	---	---	---	---	32	43	20	12	6.4
18	5.8	---	---	---	---	---	---	31	40	19	11	6.4
19	5.8	---	---	---	---	---	---	32	39	19	9.5	8.2
20	5.8	---	---	---	---	---	---	34	39	20	8.8	7.4
21	5.9	---	---	---	---	---	---	36	38	24	9.0	7.2
22	5.8	---	---	---	---	---	---	38	38	19	8.5	6.8
23	5.8	---	---	---	---	---	---	46	39	19	8.5	6.4
24	6.1	---	---	---	---	---	---	39	38	19	13	6.0
25	6.5	---	---	---	---	---	---	35	38	20	11	6.3
26	6.4	---	---	---	---	---	---	32	38	22	14	6.1
27	6.4	---	---	---	---	---	---	36	37	20	12	6.1
28	6.3	---	---	---	---	---	---	40	36	18	10	6.0
29	e5.9	---	---	---	---	---	---	44	34	18	10	6.0
30	e5.2	---	---	---	---	---	---	46	33	16	9.5	5.8
31	e5.0	---	---	---	---	---	---	41	---	16	10	---
TOTAL	195.5	---	---	---	---	---	---	960	1220	711	380.8	209.0
MEAN	6.31	---	---	---	---	---	---	31.0	40.7	22.9	12.3	6.97
MAX	7.8	---	---	---	---	---	---	46	46	32	16	9.2
MIN	5.0	---	---	---	---	---	---	20	33	16	8.5	5.8
AC-FT	388	---	---	---	---	---	---	1900	2420	1410	755	415

e Estimated

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18 ft³/s, Aug. 11, 1941, July 12, 1957; maximum gage height, 1.73 ft, Aug. 11, 1941; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6.0 ft³/s and maximum (+):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 9	1945	*9.1	*1.00	Aug. 10	1745	6.3	0.85

Minimum recorded, 0.17 ft³/s, Oct. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	---	---	---	---	---	---	e1.8	7.4	5.1	2.5	1.8
2	1.5	---	---	---	---	---	---	e1.8	7.2	5.1	2.5	1.7
3	1.5	---	---	---	---	---	---	e1.8	7.1	5.3	2.4	1.7
4	1.4	---	---	---	---	---	---	2.4	7.2	5.6	2.4	1.6
5	1.4	---	---	---	---	---	---	2.5	7.6	4.9	2.4	1.6
6	1.4	---	---	---	---	---	---	2.6	7.2	4.5	2.3	1.6
7	1.4	---	---	---	---	---	---	2.9	7.0	4.4	2.5	1.6
8	1.4	---	---	---	---	---	---	2.9	7.5	4.3	2.2	1.5
9	1.4	---	---	---	---	---	---	3.2	7.7	4.2	2.1	1.5
10	1.4	---	---	---	---	---	---	3.3	7.6	4.1	2.6	1.5
11	1.3	---	---	---	---	---	---	3.4	7.3	3.9	2.1	1.4
12	1.3	---	---	---	---	---	---	3.5	7.1	4.0	2.3	1.4
13	1.3	---	---	---	---	---	---	3.6	7.0	3.8	2.1	1.4
14	1.3	---	---	---	---	---	---	3.8	7.3	3.5	2.2	1.5
15	1.3	---	---	---	---	---	---	4.0	7.4	3.4	2.1	1.5
16	1.2	---	---	---	---	---	---	4.2	7.4	3.4	2.0	1.4
17	1.2	---	---	---	---	---	---	4.3	7.3	3.2	2.1	1.4
18	1.2	---	---	---	---	---	---	4.5	6.9	3.0	2.0	1.4
19	1.1	---	---	---	---	---	---	4.6	6.6	2.9	1.9	1.7
20	1.0	---	---	---	---	---	---	4.8	6.5	3.3	1.9	1.4
21	1.0	---	---	---	---	---	---	5.1	6.3	3.4	1.8	1.4
22	1.0	---	---	---	---	---	---	5.3	6.2	3.0	1.8	1.3
23	.98	---	---	---	---	---	---	5.9	6.0	3.0	1.8	1.3
24	.94	---	---	---	---	---	---	6.2	6.0	2.8	2.3	1.3
25	.93	---	---	---	---	---	---	6.0	6.0	3.0	1.9	1.3
26	.88	---	---	---	---	---	---	5.7	5.9	3.2	2.3	1.3
27	.90	---	---	---	---	---	---	6.1	5.6	3.0	1.9	1.2
28	.69	---	---	---	---	---	---	6.6	5.5	2.9	1.8	1.3
29	.69	---	---	---	---	---	---	6.8	5.4	2.7	1.8	1.2
30	.58	---	---	---	---	---	---	7.3	5.2	2.6	1.9	1.2
31	1.0	---	---	---	---	---	---	7.2	---	2.6	1.9	---
TOTAL	36.19	---	---	---	---	---	---	134.1	202.4	114.1	65.8	43.4
MEAN	1.17	---	---	---	---	---	---	4.33	6.75	3.68	2.12	1.45
MAX	1.6	---	---	---	---	---	---	7.3	7.7	5.6	2.6	1.8
MIN	.58	---	---	---	---	---	---	1.8	5.2	2.6	1.8	1.2
AC-FT	72	---	---	---	---	---	---	266	401	226	131	86

e Estimated

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 mi².

PERIOD OF RECORD.--May 1922 to September 1965 (monthend contents only), October 1965 to September 1983, April 1990 to current year. 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 observed, 15,130 acre-ft June 13, 1938, June 20-23, 1941, gage height, 9,511.5 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 9,020 acre-ft, June 20, gage-height, 87.20 ft; minimum contents, 1,580 acre-ft, Sept. 30, gage height, 51.32 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3640	4360	5190	e5820	6400	6700	4530	5960	8770	8580	5270	2720
2	3670	4390	5210	e5840	6420	6710	4550	6080	8730	8470	5240	2680
3	3700	4410	5250	e5860	6430	6710	4580	6200	8670	8440	5080	2630
4	3720	4440	5290	e5890	6450	6720	4600	6320	8620	8460	4900	2620
5	3750	4470	5320	e5910	6460	6720	4620	6430	8630	8410	4730	2630
6	3770	4510	5330	e5940	6480	6720	4660	6550	8640	8250	4550	2630
7	3780	4540	5330	e5970	6490	6730	4710	6670	8660	8090	4490	2510
8	3820	4570	5350	5990	6510	6730	4770	6790	8760	7920	4500	2390
9	3850	4600	5370	6010	6530	6730	4850	6910	8860	7750	4470	2270
10	3870	4630	5390	6020	6540	6730	4920	7030	8950	7720	4330	2160
11	3900	4660	5420	6050	6560	6750	4980	7140	8990	7730	4190	2060
12	3920	4680	5440	6060	6580	6700	5060	7240	8970	7690	4000	2050
13	3940	4710	5460	6080	6600	6660	5150	7360	8970	7520	3900	2080
14	3970	4750	5480	6100	6600	6620	5250	7470	8980	7330	3860	2100
15	3990	4790	5500	6120	6620	6580	5340	7580	8970	7130	3880	2120
16	4010	4820	5520	6130	6650	6420	5420	7700	8970	6920	3850	2150
17	4030	4840	5530	6150	6660	6240	5500	7810	8970	6860	3680	2180
18	4060	4860	5560	6170	6670	6040	5570	7930	8990	6880	3510	2200
19	4080	4890	5590	6180	6690	5880	5630	8050	9010	6810	3350	2240
20	4100	4910	5610	6200	6700	5740	5680	8150	9020	6620	3210	2270
21	4130	4950	5630	6220	6720	5570	5730	8220	9020	6430	3150	2300
22	4140	4970	5650	6240	6740	5400	5780	8300	8980	6230	3150	2330
23	4170	4990	5670	6250	6710	5360	5830	8440	8950	6030	3120	2320
24	4190	5010	5680	6270	6730	5150	5900	8550	8910	5940	3040	2200
25	4210	5030	5680	6290	6780	4930	5960	8610	8880	5960	2940	2080
26	4240	5060	e5710	6300	6750	4720	6040	8640	8880	5940	2880	1960
27	4260	5090	e5750	6320	6750	4510	6120	8700	8880	5790	2800	1840
28	4280	5110	e5780	6330	6700	4440	6100	8790	8870	5640	2790	1720
29	4290	5140	e5790	6350	6680	4460	6010	8820	8780	5490	2810	1610
30	4320	5160	e5800	6370	---	4480	5920	8830	8690	5410	2810	1580
31	4340	---	e5810	6380	---	4510	---	8780	---	5330	2770	---
MAX	4340	5160	5810	6380	6780	6750	6120	8830	9020	8580	5270	2720
MIN	3640	4360	5190	5820	6400	4440	4530	5960	8620	5330	2770	1580
(†)	68.65	72.50	74.76	77.68	78.86	69.48	75.78	86.46	86.10	72.95	60.12	51.32
(††)	+740	+820	+650	+570	+300	-2170	+1410	+2860	-90	-3360	-2560	-1190

WTR YR 1992 MAX 9020 MIN 1580 (††) -2020

(†) 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 1000 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, 1988-92). 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 good 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. No flow at times.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	---	---	---	---	7.0	2.6	41	104	90	21	40
2	1.0	---	---	---	---	3.9	2.6	2.6	104	89	50	40
3	1.6	---	---	---	---	3.9	2.6	2.6	105	42	99	40
4	2.1	---	---	---	---	8.0	2.6	2.6	99	32	112	22
5	2.0	---	---	---	---	12	2.6	e2.0	90	51	115	11
6	2.0	---	---	---	---	12	2.6	e2.3	90	114	114	26
7	1.9	---	---	---	---	12	2.7	e2.3	65	118	47	59
8	1.9	---	---	---	---	12	2.7	e2.3	42	120	17	69
9	1.7	---	---	---	---	12	2.7	e2.3	42	121	54	69
10	1.7	---	---	---	---	12	2.7	e2.3	43	56	98	69
11	1.7	---	---	---	---	18	2.7	e2.3	65	37	98	69
12	1.6	---	---	---	---	21	2.8	e2.3	92	64	97	14
13	1.6	---	---	---	---	37	2.8	e2.3	77	131	97	.50
14	1.6	---	---	---	---	20	2.9	e2.3	72	138	35	.49
15	1.6	---	---	---	---	10	2.9	e2.3	72	145	16	.41
16	1.6	---	---	---	---	22	2.9	e2.3	72	146	57	.33
17	1.1	---	---	---	---	65	3.0	e2.3	64	72	113	.32
18	e.90	---	---	---	---	86	3.0	e2.3	56	27	107	.30
19	e.80	---	---	---	---	109	3.0	e2.3	56	62	95	.32
20	e.70	---	---	---	---	122	3.0	11	56	145	88	.32
21	e.60	---	---	---	---	122	3.0	29	63	143	32	.32
22	e.50	---	---	---	---	122	3.0	29	76	143	17	.35
23	e.50	---	---	---	---	121	3.0	29	76	143	49	15
24	e.50	---	---	---	---	121	3.0	29	76	74	74	69
25	e.50	---	---	---	---	121	3.1	44	75	29	64	73
26	e.50	---	---	---	---	121	3.0	49	61	58	57	72
27	e.50	---	---	---	---	121	3.0	49	52	110	57	72
28	e.50	---	---	---	---	50	60	56	62	107	27	72
29	e.50	---	---	---	---	2.6	99	83	87	106	10	71
30	e.50	---	---	---	---	2.6	99	107	90	106	18	26
31	e.50	---	---	---	---	2.6	---	106	---	50	39	---
TOTAL	35.80	---	---	---	---	1511.6	334.5	704.0	2184	2869	1974	1001.66
MEAN	1.15	---	---	---	---	48.8	11.1	22.7	72.8	92.5	63.7	33.4
MAX	2.1	---	---	---	---	122	99	107	105	146	115	73
MIN	.50	---	---	---	---	2.6	2.6	2.0	42	27	10	.30
AC-FT	71	---	---	---	---	3000	663	1400	4330	5690	3920	1990
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1992, BY WATER YEAR (WY)

	MEAN	3.72	.83	.27	.24	.24	2.47	4.38	26.7	64.0	68.9	52.4	21.2
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

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1937 - 1992

ANNUAL MEAN										18.6		
HIGHEST ANNUAL MEAN										40.0		1987
LOWEST ANNUAL MEAN										8.64		1964
HIGHEST DAILY MEAN	130	Jul 23				146	Jul 16			286	May 10	1942
LOWEST DAILY MEAN	.50	Oct 22				.30	Sep 18			.00	Jun 21	1943
ANNUAL SEVEN-DAY MINIMUM	.50	Oct 22				.32	Sep 16			.00	Jul 10	1943
INSTANTANEOUS PEAK FLOW										301	Jun 19	1979
INSTANTANEOUS PEAK STAGE										3.04	Jun 19	1979
ANNUAL RUNOFF (AC-FT)										13480		
10 PERCENT EXCEEDS	86					111				83		
50 PERCENT EXCEEDS	33					29				.70		
90 PERCENT EXCEEDS	1.6					.96				.02		

RIO GRANDE BASIN

08255500 COSTILLA CREEK NEAR COSTILLA, NM

LOCATION.--Lat 36°58'01", long 105°30'23", Taos County, Hydrologic Unit 13020101, in Sangre de Cristo Grant, on right bank 70 ft downstream from bridge on State Highway 196, 0.5 mi upstream from diversion dam, 1.6 mi southeast of Costilla, and at mile 15.9.

DRAINAGE AREA.--195 mi².

PERIOD OF RECORD.--March 1936 to current year (no winter records 1936-41, 1943). Monthly discharge for March 1943 and water-year estimate for 1943, published in WSP 1312.

REVISED RECORDS.--WSP 1312: 1937-39(M).

GAGE.--Water-stage recorder. Concrete control since Oct. 13, 1952. Elevation of gage is 7,900 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 18, 1944, at site 200 ft downstream at different datum. June 18, 1944 to Sept. 30, 1964, at site 0.4 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Costilla Reservoir (station 08253900) 19 mi upstream. Diversions for irrigation of about 2,000 acres upstream from station. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	16	e13	e18	e12	11	28	227	258	133	47	59
2	25	21	e14	e18	e12	12	26	157	256	130	43	58
3	23	e20	e16	e17	e13	12	26	156	240	114	104	58
4	21	e24	e18	e17	e14	13	30	149	235	80	122	51
5	21	e23	e19	e17	e15	14	31	135	230	77	130	29
6	21	18	e19	e16	e13	16	30	125	230	137	138	27
7	21	e16	e19	e16	e13	50	37	122	217	151	117	63
8	21	e15	e19	e16	e12	26	42	120	180	154	47	77
9	21	e14	e20	e15	e12	22	54	116	188	156	42	78
10	20	e13	e20	e13	e11	24	61	117	172	122	117	78
11	19	e12	e18	e12	e12	24	85	108	166	68	128	78
12	19	e11	e16	e12	e13	32	87	100	209	67	127	56
13	19	e11	e18	e13	e12	44	116	99	201	152	125	19
14	18	e11	e20	e12	e12	56	156	97	182	155	109	17
15	18	e11	e19	e11	e11	35	161	96	170	161	48	16
16	18	e12	e17	e11	e10	36	141	93	157	161	44	16
17	18	e12	e15	e10	e9.8	69	124	92	147	131	120	15
18	17	e11	e13	e11	e9.6	101	135	96	123	56	135	14
19	16	e11	e16	e11	e9.4	117	105	93	120	51	120	18
20	15	e11	e19	e11	e9.4	154	85	90	119	145	107	18
21	15	e12	e19	e11	e9.4	148	74	116	115	165	92	18
22	15	e11	e18	e11	e9.4	146	77	120	129	159	42	16
23	16	e11	e19	e11	e9.6	143	67	168	128	155	39	15
24	15	e10	e19	e11	e9.6	138	73	183	124	134	99	54
25	15	e9.9	e18	e11	e10	137	83	146	128	61	107	72
26	15	e9.6	e18	e12	e10	137	100	160	124	69	97	74
27	15	e9.8	e18	e12	e10	139	104	155	104	129	87	75
28	16	e10	e17	e12	e11	113	142	175	104	126	72	76
29	14	e11	e17	e13	e11	35	236	203	133	122	34	76
30	15	e12	e17	e13	---	30	253	256	134	119	31	64
31	12	---	e17	e14	---	29	---	271	---	102	52	---
TOTAL	564	399.3	545	408	325.2	2063	2769	4341	5023	3742	2722	1385
MEAN	18.2	13.3	17.6	13.2	11.2	66.5	92.3	140	167	121	87.8	46.2
MAX	30	24	20	18	15	154	253	271	258	165	138	78
MIN	12	9.6	13	10	9.4	11	26	90	104	51	31	14
AC-FT	1120	792	1080	809	645	4090	5490	8610	9960	7420	5400	2750
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1992, BY WATER YEAR (WY)

	15.4	11.4	8.17	7.62	9.15	17.1	51.2	117	115	83.5	67.0	33.5
MEAN	15.4	11.4	8.17	7.62	9.15	17.1	51.2	117	115	83.5	67.0	33.5
MAX	44.9	30.1	19.6	15.0	16.9	70.9	223	594	342	160	137	109
(WY)	1962	1942	1942	1950	1942	1989	1942	1942	1983	1944	1973	1957
MIN	4.85	4.11	3.71	3.44	3.38	6.92	13.1	30.8	36.0	23.8	17.3	7.93
(WY)	1964	1965	1964	1964	1964	1964	1956	1967	1946	1946	1977	1974

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1942 - 1992

ANNUAL TOTAL	19556.2	24286.5	
ANNUAL MEAN	53.6	66.4	45.1
HIGHEST ANNUAL MEAN			134
LOWEST ANNUAL MEAN			16.5
HIGHEST DAILY MEAN	356	May 23	1000
LOWEST DAILY MEAN	4.0	Jan 1	1.0
ANNUAL SEVEN-DAY MINIMUM	4.2	Jan 1	2.5
INSTANTANEOUS PEAK FLOW			1150
INSTANTANEOUS PEAK STAGE			5.37
INSTANTANEOUS LOW FLOW			.34
ANNUAL RUNOFF (AC-FT)	38790	48170	32670
10 PERCENT EXCEEDS	120	155	115
50 PERCENT EXCEEDS	28	31	18
90 PERCENT EXCEEDS	7.6	11	6.0

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. Flow partly regulated by Costilla Reservoir (station 08253900) 22 mi upstream. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 514 ft³/s, May 22, 1991, maximum gage height 4.91 ft., June 1, 1983; no flow many days most years.

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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 174 ft³/s, May 1, gage height, 3.94 ft; no flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	---	---	---	---	---	---	144	85	8.1	3.1	.06
2	6.8	---	---	---	---	---	---	87	92	6.7	3.4	.00
3	5.5	---	---	---	---	---	---	77	79	6.8	4.5	.00
4	4.7	---	---	---	---	---	---	46	68	7.1	.24	.48
5	4.5	---	---	---	---	---	---	17	51	3.8	3.1	.04
6	4.3	---	---	---	---	---	---	10	49	9.7	5.6	.00
7	3.9	---	---	---	---	---	---	5.6	40	2.7	3.5	1.0
8	4.1	---	---	---	---	---	---	8.1	25	4.1	1.1	.00
9	3.0	---	---	---	---	---	---	8.7	35	8.4	1.7	.00
10	.70	---	---	---	---	---	---	25	25	4.9	9.0	.03
11	.58	---	---	---	---	---	---	9.4	19	1.7	5.7	4.6
12	.92	---	---	---	---	---	---	.76	49	.70	.44	1.9
13	.63	---	---	---	---	---	---	3.4	41	7.3	.00	.09
14	.69	---	---	---	---	---	---	12	24	.66	2.2	.00
15	.49	---	---	---	---	---	---	6.6	17	6.6	.77	.00
16	.25	---	---	---	---	---	---	6.3	15	1.8	1.7	.00
17	.20	---	---	---	---	---	---	6.7	7.4	2.0	9.0	.00
18	.20	---	---	---	---	---	---	9.1	1.4	2.4	5.2	.00
19	.18	---	---	---	---	---	---	1.4	20	.47	.04	.00
20	.15	---	---	---	---	---	61	1.2	31	10	.30	.00
21	.16	---	---	---	---	---	57	6.0	7.4	13	4.4	.06
22	.16	---	---	---	---	---	60	8.1	10	4.2	5.9	.50
23	.13	---	---	---	---	---	52	35	7.1	3.6	2.6	.27
24	.13	---	---	---	---	---	57	44	.83	5.2	6.9	.00
25	.11	---	---	---	---	---	65	5.9	4.2	2.5	5.5	.00
26	.11	---	---	---	---	---	81	8.7	7.0	11	1.9	1.7
27	.10	---	---	---	---	---	64	5.5	6.3	12	.01	2.1
28	.09	---	---	---	---	---	70	18	4.2	3.5	1.4	1.3
29	.09	---	---	---	---	---	148	38	8.2	2.6	2.4	.00
30	.08	---	---	---	---	---	158	83	8.7	2.1	.07	9.8
31	.63	---	---	---	---	---	---	97	---	4.2	.40	---
TOTAL	48.08	---	---	---	---	---	---	834.46	837.73	159.83	92.07	23.93
MEAN	1.55	---	---	---	---	---	---	26.9	27.9	5.16	2.97	.80
MAX	6.8	---	---	---	---	---	---	144	92	13	9.0	9.8
MIN	.08	---	---	---	---	---	---	.76	.83	.47	.00	.00
AC-FT	95	---	---	---	---	---	---	1660	1660	317	183	47

RIO GRANDE BASIN

PRINCIPAL DIVERSIONS FROM COSTILLA CREEK, NEW MEXICO-COLORADO

Records of discharge are collected at 4 gaging stations on 2 diversions from Costilla Creek. Water diverted is used for irrigation in the Sangre de Cristo Grant in New Mexico and Colorado downstream from the gaging station on Costilla Creek near Costilla, NM (station 08255500). Records collected during irrigation season only. Several observations of water temperature were made at each site during the year. Stations discontinued July 1, 1992.

08256000 ACEQUIA MADRE AT COSTILLA, NM.--Lat 36°58'03", long 105°30'57", Taos County, Hydrologic Unit 13020101, on right bank 135 ft downstream from new diversion dam, and 1.2 mi southeast of the intersection of State Highways 522 and 196 at Costilla.

PERIOD OF RECORD.--May 1944 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 7,870 ft above National Geodetic Vertical Datum of 1929, from topographic map. Acequia diverts from right bank of Costilla Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 50 ft³/s, June 25, 1944, July 31, 1945; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 29 ft³/s, June 4; minimum daily, no flow many days.

08258000 CERRO CANAL AT COSTILLA, NM.--Lat 36°57'56", long 105°31'07", Taos County, Hydrologic Unit 13020101, on right bank 1,350 ft downstream from new diversion dam, and 1.2 mi southeast of the intersection of State Highways 522 and 196 at Costilla.

PERIOD OF RECORD.--April 1944 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 7,870 ft above National Geodetic Vertical Datum of 1929, from topographic map. Canal diverts from left bank of Costilla Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 164 ft³/s, June 9, 1985; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 143 ft³/s, June 6; minimum daily, 4.7 ft³/s, Oct. 3.

08258600 CERRO CANAL BELOW ASSOCIATION DITCH AT COSTILLA, NM.--Lat 36°57'41", long 105°32'05", Taos County, Hydrologic Unit 13020101, on left bank 220 ft downstream from Association ditch, and 1.2 mi south of the intersection of State Highway 522 and 196 at Costilla.

PERIOD OF RECORD.--May 1972 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 7,820 ft above National Geodetic Vertical Datum of 1929, from topographic map.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 85 ft³/s, July 8, 1987; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 77 ft³/s, June 6; 0.82 ft³/s, Oct. 21.

08259600 CERRO CANAL AT STATE LINE NEAR JAROSO, CO.--Lat 36°59'41", long 105°34'36", Taos County, Hydrologic Unit 13020101, on right bank 780 ft downstream from head of N. Mex. branch Cerro Canal, and 2.7 mi east of Jaroso.

PERIOD OF RECORD.--April 1973 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 7,680 ft above National Geodetic Vertical Datum of 1929, from topographic map. Flow measured is delivered to Colorado.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 72 ft³/s, July 10, 1986; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 63 ft³/s, June 6; minimum daily, 0.37 ft³/s, Oct. 20.

MONTHLY DIVERSIONS, IN ACRE-FEET, WATER YEAR OCTOBER 1991 TO JUNE 30, 1992

	08256000 Acequia Madre	08258000 Cerro Canal at Costilla	08258600 Cerro Canal below Association ditch	08259600 Cerro Canal at State line nr Jaroso
October	233	2050	222	147
November	-	-	-	-
December	-	-	-	-
January	-	-	-	-
February	-	-	-	-
March	-	-	-	-
April	21	650	329	282
May	1140	5530	2330	1720
June	1350	6370	3350	2750

RIO GRANDE BASIN

08263500 RIO GRANDE NEAR CERRO, NM

LOCATION.--Lat 36°44'24", long 105°40'59", in NW¼ sec.20, T.29 N., R.12 E., Taos County, Hydrologic Unit 13020101, 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 good 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	133	365	368	329	452	1200	e790	e495	253	e197	213
2	161	138	222	362	329	457	1220	e780	e493	227	e180	189
3	165	176	295	364	310	465	1230	e750	e485	215	e165	177
4	170	253	289	366	292	471	1210	e650	e460	214	e165	171
5	153	268	297	366	328	463	1210	e560	e475	229	e185	175
6	146	275	321	366	347	465	1240	e520	e490	212	e192	e170
7	143	297	316	366	365	470	1220	e490	e495	e200	e187	e160
8	148	317	328	375	365	491	1190	e470	e500	e185	e185	e155
9	143	464	335	e360	364	517	1200	e460	e520	e180	e184	e152
10	140	443	336	e355	374	543	1230	e490	e590	e175	e183	e146
11	138	417	354	e355	383	555	1280	e455	e650	e170	189	e143
12	137	420	362	e360	390	558	1360	e400	e620	e170	187	e139
13	139	439	354	e355	399	558	1450	e380	e590	e165	187	e137
14	139	434	359	e355	404	562	1550	e355	e640	e168	180	e134
15	137	388	354	356	409	577	1740	e335	e610	161	177	131
16	136	366	349	359	414	615	1830	e315	595	174	168	136
17	136	362	343	359	418	671	1690	e290	571	e170	167	136
18	136	377	348	347	421	751	1580	e275	520	e165	168	136
19	136	405	e350	342	419	788	1490	272	461	e165	165	135
20	136	406	e364	342	408	810	e1350	264	428	e160	162	135
21	137	388	e370	342	414	844	e1180	250	475	e160	160	135
22	136	368	e380	339	422	909	e1000	252	524	e155	159	135
23	136	289	e390	332	420	1100	e810	325	587	e155	156	211
24	136	227	e390	333	425	1190	e650	386	533	e152	153	252
25	136	269	e380	332	428	1220	e610	e395	454	e170	151	182
26	136	320	e390	332	433	1230	e645	e395	395	e185	202	161
27	140	347	e385	332	441	1220	e695	e410	370	e190	903	159
28	146	363	e380	331	440	1290	e750	e405	328	e230	793	154
29	146	455	e370	332	447	1250	e775	e438	294	e250	498	151
30	146	384	e360	331	---	1200	e790	e445	271	e235	338	147
31	143	---	e345	330	---	1210	---	e493	---	e210	258	---
TOTAL	4441	10188	10781	10844	11338	23902	35375	13495	14919	5850	7344	4757
MEAN	143	340	348	350	391	771	1179	435	497	189	237	159
MAX	170	464	390	375	447	1290	1830	790	650	253	903	252
MIN	136	133	222	330	292	452	610	250	271	152	151	131
AC-FT	8810	20210	21380	21510	22490	47410	70170	26770	29590	11600	14570	9440
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1992, BY WATER YEAR (WY)

	MEAN	201	361	299	287	345	462	556	947	1142	480	237	170
MAX	720	1073	774	566	657	1010	2335	4577	4400	2181	957	804	
(WY)	1970	1987	1987	1987	1987	1987	1987	1987	1949	1986	1957	1982	
MIN	52.7	88.1	100	116	140	110	107	84.1	58.1	51.5	48.1	44.8	
(WY)	1957	1957	1964	1957	1957	1957	1955	1963	1977	1951	1956	1956	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1949 - 1992		
ANNUAL TOTAL	187843			153234					
ANNUAL MEAN	515			419			457		
HIGHEST ANNUAL MEAN							1275		
LOWEST ANNUAL MEAN							112		
HIGHEST DAILY MEAN	2100			1830			9440		
LOWEST DAILY MEAN	133			131			40		
ANNUAL SEVEN-DAY MINIMUM	136			135			42		
INSTANTANEOUS PEAK FLOW				1870			9740		
INSTANTANEOUS PEAK STAGE				8.21			15.78		
INSTANTANEOUS LOW FLOW				128			40		
ANNUAL RUNOFF (AC-FT)	372600			303900			331100		
10 PERCENT EXCEEDS	1090			798			964		
50 PERCENT EXCEEDS	370			355			269		
90 PERCENT EXCEEDS	153			146			80		

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. Since January 1966 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. Molycorp diversions ceased December 1991.

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. 26 years (water years 1966-91), 40.4 ft³/s, 29,270 acre-ft/yr.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	27	e15	e11	e16	23	31	150	160	97	51	39
2	49	29	e15	e13	e17	23	30	156	152	93	48	37
3	45	26	e16	e14	e17	23	30	158	145	89	48	34
4	44	28	e14	e13	e18	24	31	150	143	88	48	33
5	44	27	e13	e11	e18	24	32	141	157	87	47	33
6	43	27	e13	e11	e19	23	33	135	170	85	47	33
7	42	30	e12	e11	e19	23	34	135	180	82	48	31
8	41	26	e11	e12	e19	24	38	134	184	80	45	30
9	41	27	e11	e13	e20	23	43	137	180	80	45	29
10	40	28	e14	e14	e20	23	52	143	165	76	53	29
11	39	31	e15	e12	e20	23	65	128	156	75	61	29
12	38	26	e15	e11	e20	23	69	119	156	73	54	28
13	38	25	e15	e12	e21	24	86	118	158	73	51	28
14	36	27	e14	e13	e21	24	115	122	157	71	54	27
15	35	28	e13	e12	e20	25	124	126	153	68	49	28
16	32	28	e16	e13	e20	26	119	129	149	65	47	28
17	31	27	e12	e13	e22	26	116	129	141	62	46	28
18	32	27	e12	e12	e21	26	116	131	132	61	46	27
19	31	27	e12	e13	e21	26	103	133	129	60	44	29
20	31	19	e12	e13	e20	26	92	138	130	61	42	29
21	31	26	e12	e13	e21	27	84	151	130	65	41	29
22	29	24	e13	e12	e22	27	80	155	127	61	40	28
23	29	16	e13	e13	e23	27	73	166	125	61	41	27
24	29	e15	e14	e13	23	27	77	160	123	61	50	26
25	29	e14	e13	e14	23	27	85	164	121	61	56	28
26	29	e14	e12	e14	23	28	95	158	119	68	53	31
27	31	e14	e12	e15	23	28	101	160	115	61	48	30
28	32	e14	e14	e16	23	29	117	168	112	58	43	29
29	29	e14	e14	e16	23	30	135	163	108	56	42	29
30	28	e15	e12	e16	---	30	149	173	103	53	41	30
31	25	---	e11	e15	---	31	---	163	---	52	41	---
TOTAL	1105	706	410	404	593	793	2355	4493	4280	2183	1470	896
MEAN	35.6	23.5	13.2	13.0	20.4	25.6	78.5	145	143	70.4	47.4	29.9
MAX	52	31	16	16	23	31	149	173	184	97	61	39
MIN	25	14	11	11	16	23	30	118	103	52	40	26
AC-FT	2190	1400	813	801	1180	1570	4670	8910	8490	4330	2920	1780
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1992, 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
MEAN	22.4	15.9	11.0	10.7	11.5	14.3	35.9	110	131	60.7	38.5	27.9															
MAX	38.1	32.8	24.1	21.4	22.8	40.0	84.1	267	405	172	70.6	62.2															
(WY)	1986	1987	1987	1987	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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1966 - 1992

ANNUAL TOTAL	21711.5	19688	
ANNUAL MEAN	59.5	53.8	40.9
HIGHEST ANNUAL MEAN			87.6
LOWEST ANNUAL MEAN			11.8
HIGHEST DAILY MEAN	469	May 22	184
LOWEST DAILY MEAN	9.5	Mar 8	11
ANNUAL SEVEN-DAY MINIMUM	12	Dec 17	12
INSTANTANEOUS PEAK FLOW			203
INSTANTANEOUS PEAK STAGE			3.49
INSTANTANEOUS LOW FLOW			10
ANNUAL RUNOFF (AC-FT)	43060	39050	29650
10 PERCENT EXCEEDS	148	137	105
50 PERCENT EXCEEDS	44	31	20
90 PERCENT EXCEEDS	13	13	7.2

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 13020101, in Carson National Forest, on right bank 900 ft downstream from Llano ditch heading, 2.6 mi downstream from Lake Fork, 3 mi northeast of Questa, and at mile 3.5.

DRAINAGE AREA.--36.7 mi².

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 except for estimated daily discharges, which are poor. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	9.3	8.8	7.1	6.4	6.4	8.0	60	44	11	13	11
2	11	10	8.4	5.2	6.4	6.5	7.7	64	40	11	13	11
3	11	9.3	5.8	5.6	6.3	6.7	8.0	63	36	11	12	11
4	11	10	7.6	7.4	6.2	6.4	8.6	61	32	11	13	10
5	11	10	8.9	7.2	6.1	5.9	8.7	59	33	11	12	10
6	11	10	9.0	7.2	6.0	6.4	8.8	58	33	11	12	10
7	12	10	8.5	7.1	6.0	6.7	9.5	58	32	11	12	10
8	11	9.6	8.4	6.4	6.2	7.0	11	56	33	11	12	9.9
9	11	9.6	8.2	5.4	6.2	7.0	13	57	33	11	12	9.7
10	11	9.6	8.1	5.6	6.2	6.9	16	57	30	11	13	9.6
11	11	10	8.1	6.6	6.4	6.9	18	54	24	11	13	9.5
12	11	9.0	8.2	7.4	6.2	6.8	18	52	21	14	13	9.4
13	11	9.3	7.6	6.4	6.2	6.9	21	51	19	15	13	9.3
14	11	10	5.8	6.3	6.2	7.0	27	50	19	12	13	9.3
15	11	9.8	5.6	5.5	6.2	7.2	30	49	18	12	13	9.3
16	11	9.8	6.9	5.0	6.1	7.4	29	48	17	12	12	9.3
17	11	9.3	8.2	5.0	6.2	7.6	27	47	16	13	12	9.3
18	11	9.6	7.9	5.3	5.7	7.6	28	45	17	13	12	9.1
19	11	10	7.8	5.5	5.9	7.3	27	37	17	13	12	9.6
20	11	8.0	7.5	5.7	6.4	7.4	25	35	16	13	11	9.8
21	11	9.1	7.4	6.8	6.4	7.5	23	35	16	13	11	9.5
22	11	9.9	7.4	6.7	6.4	7.7	23	35	15	12	11	9.3
23	11	7.1	6.9	6.3	6.4	7.6	22	39	14	12	11	9.1
24	10	7.7	6.6	6.5	6.2	7.5	23	34	14	11	13	9.0
25	10	9.1	6.6	6.5	6.3	7.5	26	29	14	11	13	8.9
26	10	9.6	7.5	6.5	6.3	7.6	29	25	13	12	13	9.0
27	10	9.7	6.3	6.4	6.3	7.8	33	30	13	11	12	8.9
28	10	9.4	5.3	6.4	6.3	8.0	40	37	12	12	12	8.9
29	9.9	9.1	6.6	6.4	6.4	8.0	49	38	12	14	11	8.7
30	10	9.0	7.1	6.4	---	8.0	54	43	11	14	11	8.6
31	9.6	---	7.4	6.4	---	8.1	---	43	---	13	11	---
TOTAL	333.5	281.9	230.4	194.2	180.5	223.3	671.3	1449	664	373	377	286.0
MEAN	10.8	9.40	7.43	6.26	6.22	7.20	22.4	46.7	22.1	12.0	12.2	9.53
MAX	12	10	9.0	7.4	6.4	8.1	54	64	44	15	13	11
MIN	9.6	7.1	5.3	5.0	5.7	5.9	7.7	25	11	11	11	8.6
AC-FT	661	559	457	385	358	443	1330	2870	1320	740	748	567
(†)	27	0	0	0	0	0	0	551	1120	647	0	0

CAL YR 1991 TOTAL MEAN MAX MIN AC-FT (†) 2340
CAL YR 1992 TOTAL MEAN MAX MIN AC-FT (†) 2342
(†) DIVERSIONS, IN ACRE-FEET, BY LLANO DITCH

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1992, BY WATER YEAR (WY)

	MEAN	5.22	4.50	4.39	4.53	5.39	13.3	32.4	21.7	11.3	9.55	7.50
MAX	13.1	9.83	8.14	8.11	7.19	12.8	29.5	96.7	94.7	27.4	20.9	13.8
(WY)	1986	1958	1958	1991	1991	1989	1985	1958	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1944 - 1992
ANNUAL TOTAL	5373.7	5264.1	
ANNUAL MEAN	14.7	14.4	10.5
HIGHEST ANNUAL MEAN			22.9
LOWEST ANNUAL MEAN			5.31
HIGHEST DAILY MEAN	113	May 22	170
LOWEST DAILY MEAN	4.5	Mar 8	.91
ANNUAL SEVEN-DAY MINIMUM	6.4	Mar 7	1.4
INSTANTANEOUS PEAK FLOW			204
INSTANTANEOUS PEAK STAGE			4.82
INSTANTANEOUS LOW FLOW			.44
ANNUAL RUNOFF (AC-FT)	10660	10440	7630
10 PERCENT EXCEEDS	31	33	17
50 PERCENT EXCEEDS	10	10	6.6
90 PERCENT EXCEEDS	6.9	6.3	3.5

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., Taos 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	55	58	55	57	59	71	203	208	107	73	67
2	69	57	54	47	57	59	67	213	197	103	70	66
3	71	55	44	43	57	59	64	213	182	100	67	64
4	69	53	43	51	57	59	65	207	175	98	67	64
5	68	54	46	57	57	59	65	198	189	96	67	63
6	67	57	48	57	57	59	66	189	200	94	67	63
7	67	59	51	57	57	59	66	188	206	93	68	63
8	67	59	52	56	58	59	63	191	211	91	67	61
9	67	59	54	56	58	59	60	191	210	92	68	60
10	67	61	54	56	58	59	65	195	196	89	70	59
11	66	65	55	56	58	59	78	177	182	88	78	58
12	65	60	56	56	58	58	84	169	180	87	77	58
13	64	59	56	56	58	58	99	168	180	85	75	57
14	62	61	50	56	58	58	135	167	177	83	76	56
15	60	62	45	56	58	58	165	167	170	81	73	56
16	59	63	44	56	58	58	157	169	161	80	71	58
17	59	61	46	56	58	57	141	168	154	76	71	58
18	59	62	49	56	58	57	144	166	138	75	70	57
19	59	63	52	56	58	57	128	165	125	75	68	58
20	60	55	55	56	58	57	115	169	123	74	66	59
21	60	62	56	56	58	57	105	180	124	77	65	59
22	58	66	58	56	58	60	101	183	121	78	64	59
23	58	50	56	56	58	63	93	190	119	75	64	59
24	57	47	50	56	58	64	97	189	118	76	66	59
25	58	59	47	56	58	66	103	189	117	74	74	59
26	58	64	50	57	59	68	112	182	115	78	74	59
27	59	63	51	56	59	68	121	185	115	78	72	59
28	59	62	46	56	59	68	136	195	114	77	69	60
29	59	63	44	57	59	68	172	194	113	75	68	59
30	59	61	46	57	---	69	193	208	111	73	67	60
31	58	---	50	57	---	72	---	205	---	73	67	---
TOTAL	1938	1777	1566	1715	1679	1890	3131	5773	4731	2601	2159	1797
MEAN	62.5	59.2	50.5	55.3	57.9	61.0	104	186	158	83.9	69.6	59.9
MAX	71	66	58	57	59	72	193	213	211	107	78	67
MIN	57	47	43	43	57	57	60	165	111	73	64	56
AC-FT	3840	3520	3110	3400	3330	3750	6210	11450	9380	5160	4280	3560

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1992, BY WATER YEAR (WY)

	MEAN	53.9	46.7	42.3	42.6	43.5	47.6	82.5	198	216	105	70.9	60.3
MAX	71.0	59.2	51.0	55.3	57.9	72.0	144	368	520	226	91.8	86.9	
(WY)	1986	1992	1987	1992	1992	1989	1985	1985	1979	1979	1982	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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1978 - 1992

ANNUAL TOTAL	31768	30757	
ANNUAL MEAN	87.0	84.0	84.4
HIGHEST ANNUAL MEAN			129
LOWEST ANNUAL MEAN			41.9
HIGHEST DAILY MEAN	567	May 22	213
LOWEST DAILY MEAN	33	Mar 27	43
ANNUAL SEVEN-DAY MINIMUM	35	Mar 23	47
INSTANTANEOUS PEAK FLOW			235
INSTANTANEOUS PEAK STAGE			3.36
INSTANTANEOUS LOW FLOW			41
ANNUAL RUNOFF (AC-FT)	63010	61010	61140
10 PERCENT EXCEEDS	158	176	166
50 PERCENT EXCEEDS	66	63	54
90 PERCENT EXCEEDS	40	56	37

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 500 ft upstream from first diversion, 1.6 mi east of Valdez, 3.8 mi downstream from South Fork, and at mile 9.2.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	16	11	12	e13	13	18	139	133	74	35	30
2	25	16	12	e12	e13	13	17	137	125	72	34	30
3	24	15	e12	e12	e13	14	17	138	123	69	33	30
4	24	15	e12	e12	e13	12	18	132	124	68	33	30
5	24	15	11	11	e13	14	19	124	129	64	33	29
6	24	15	11	11	e13	15	19	118	136	61	34	28
7	23	15	e11	11	e12	15	21	118	137	60	33	28
8	23	14	e11	e10	e12	15	30	123	133	58	32	27
9	22	14	11	e11	e12	15	44	127	128	57	31	27
10	22	15	e11	e10	12	14	54	128	125	54	34	26
11	22	15	12	e10	e12	14	61	120	124	54	34	25
12	22	14	12	10	e12	15	62	111	123	52	33	25
13	22	13	12	e12	e12	16	78	113	124	52	32	24
14	22	15	e12	e13	e12	18	103	118	123	49	35	24
15	22	15	e12	e14	12	20	102	118	119	47	31	25
16	22	14	e13	e16	e12	20	95	119	115	45	32	25
17	21	12	12	e17	12	20	86	119	110	44	32	25
18	21	13	13	e15	12	19	83	117	108	43	30	24
19	20	12	13	e14	e11	18	75	120	104	43	30	25
20	20	11	12	e13	e11	16	64	134	102	42	29	25
21	20	11	12	e13	12	16	56	151	99	43	29	25
22	19	12	e12	e13	12	16	52	153	96	39	29	23
23	19	e12	e12	e13	12	15	48	149	93	39	31	23
24	19	e12	e12	e12	12	15	52	143	91	39	41	22
25	18	e11	e12	e13	12	14	61	138	89	38	39	22
26	18	11	12	e14	12	15	72	134	88	40	35	22
27	18	12	e12	e14	12	16	85	133	86	38	33	22
28	18	12	e12	e14	12	16	103	136	83	37	31	21
29	16	12	e12	e13	13	16	123	131	81	36	30	21
30	17	12	e12	e13	---	16	137	136	78	35	30	21
31	16	---	12	e13	---	18	---	136	---	35	30	---
TOTAL	649	401	368	391	353	489	1855	4013	3329	1527	1008	754
MEAN	20.9	13.4	11.9	12.6	12.2	15.8	61.8	129	111	49.3	32.5	25.1
MAX	26	16	13	17	13	20	137	153	137	74	41	30
MIN	16	11	11	10	11	12	17	111	78	35	29	21
AC-FT	1290	795	730	776	700	970	3680	7960	6600	3030	2000	1500
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1992, BY WATER YEAR (WY)

	MEAN	18.5	14.9	12.1	10.8	10.7	13.8	34.4	95.7	111	47.2	28.6	21.9
MAX	43.5	35.8	23.1	20.1	16.6	36.4	92.4	246	299	144	60.3	49.4	
(WY)	1942	1942	1942	1942	1942	1989	1937	1941	1979	1979	1957	1982	
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 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1935 - 1992

	ANNUAL TOTAL	15182	15137	
ANNUAL MEAN	41.6	41.4	35.0	
HIGHEST ANNUAL MEAN			69.9	1942
LOWEST ANNUAL MEAN			15.6	1971
HIGHEST DAILY MEAN	326	May 22	416	May 13 1941
LOWEST DAILY MEAN	11	Nov 20	3.0	Jan 21 1935
ANNUAL SEVEN-DAY MINIMUM	11	Dec 4	4.2	Jan 18 1935
INSTANTANEOUS PEAK FLOW			541	May 13 1941
INSTANTANEOUS PEAK STAGE			3.45	Jan 5 1970
INSTANTANEOUS LOW FLOW			8.2	Jan 27 1942
ANNUAL RUNOFF (AC-FT)	30110	30020	25390	
10 PERCENT EXCEEDS	112	121	85	
50 PERCENT EXCEEDS	24	22	18	
90 PERCENT EXCEEDS	12	12	9.8	

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 1991 TO SEPTEMBER 1992

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 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)
NOV 13...	1345	13	130	7.4	10.0	3.0	572	--	<10	69	42
JAN 05...	1115	11	155	6.9	0.5	0.0	572	11.5	--	--	--
09...	1030	11	120	7.2	-4.0	0.0	575	15.0	<10	--	--
MAR 25...	0900	14	150	7.6	4.5	2.0	651	13.0	<10	71	0
MAY 27...	0930	130	110	7.6	9.0	8.0	565	9.0	<10	47	0
JUL 29...	0830	36	140	7.3	12.0	7.5	575	9.0	<10	61	0
SEP 01...	0850	31	140	6.6	7.0	7.0	574	9.2	<10	--	--

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)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
NOV 13...	23	2.7	3.7	0.2	0.80	32	0	26	28	3.6
JAN 05...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
MAR 25...	24	2.6	5.6	0.3	0.80	112	0	92	15	8.9
MAY 27...	16	1.7	2.0	0.1	0.60	117	0	96	9.3	1.6
JUL 29...	21	2.0	2.6	0.1	0.80	134	0	110	12	3.1
SEP 01...	--	--	--	--	--	--	--	--	--	--

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 TOTAL (MG/L AS N) (00620)	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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
NOV 13...	0.10	7.2	86	0.170	0.010	<0.010	0.180	0.210	0.020	0.010
JAN 05...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	<0.010	<0.010	0.410	0.560	<0.010	0.040
MAR 25...	0.20	7.1	121	--	<0.010	<0.010	0.440	0.460	0.020	0.070
MAY 27...	0.10	6.7	96	--	<0.010	<0.010	0.170	0.170	0.020	<0.010
JUL 29...	0.10	6.2	115	--	<0.010	<0.010	0.180	0.190	0.010	0.020
SEP 01...	--	--	--	--	<0.010	<0.010	0.190	0.220	0.030	0.020

RIO GRANDE BASIN

08267500 RIO HONDO NEAR VALDEZ, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS 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, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 13...	<0.20	<0.010	<0.010	<0.010	1.0	10	58	5	0.18	33
JAN 05...	--	--	--	--	--	--	--	--	--	--
MAR 09...	<0.20	<0.010	<0.010	0.040	0.9	--	--	4	0.12	49
MAY 25...	<0.20	<0.010	<0.010	<0.010	2.6	<10	12	3	0.11	63
JUL 27...	<0.20	0.010	<0.010	<0.010	1.8	<10	24	7	2.5	60
SEP 29...	<0.20	<0.010	<0.010	<0.010	0.7	<10	<3	4	0.39	62
SEP 01...	<0.20	0.010	<0.010	0.130	1.1	--	--	2	0.17	75

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 except for estimated daily discharges, which are poor. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	354	214	493	453	410	526	1340	1590	955	483	333	383
2	341	220	300	416	409	530	1350	1560	961	448	300	357
3	335	259	351	416	411	535	1360	1400	911	421	282	339
4	350	338	342	457	414	562	1350	1290	860	408	284	325
5	332	392	361	455	416	549	1360	1130	872	424	310	315
6	313	401	402	449	440	542	1380	947	875	402	319	305
7	302	413	392	440	440	548	1380	882	900	367	311	298
8	306	440	403	436	449	567	1350	852	921	347	304	297
9	305	560	411	426	465	587	1370	775	989	340	302	295
10	297	583	411	423	468	608	1420	838	1120	335	303	286
11	290	556	443	435	e470	635	1490	817	1240	335	371	277
12	285	548	450	463	471	641	1580	776	1190	331	368	262
13	287	557	438	454	477	639	1690	684	1120	328	356	249
14	286	575	425	444	485	650	1780	621	1180	325	337	240
15	279	525	406	428	480	668	e1950	578	1040	319	323	240
16	272	499	400	429	490	704	e2300	579	945	314	304	246
17	264	479	398	425	484	819	e2200	605	864	324	299	242
18	254	495	413	427	483	867	e2000	563	787	320	305	234
19	252	523	453	413	478	879	e1800	560	720	314	306	235
20	248	516	472	392	481	889	e1600	570	694	298	295	238
21	262	509	473	386	486	915	1550	587	713	305	276	248
22	256	497	490	390	485	968	1290	610	759	294	265	260
23	249	402	496	386	e490	1170	1160	656	819	286	256	297
24	243	287	484	388	e495	1280	1140	729	797	279	263	422
25	248	350	479	383	e495	1350	1120	735	718	300	287	350
26	249	417	493	386	e495	1360	1150	768	667	353	304	305
27	252	459	477	387	508	1330	1260	760	633	362	894	304
28	266	455	448	402	515	1420	1380	820	593	412	988	294
29	263	547	446	402	517	1410	1350	822	544	476	708	292
30	260	516	446	404	---	1340	1430	952	507	417	526	283
31	264	---	457	412	---	1350	---	968	---	362	437	---
TOTAL	8764	13532	13353	13007	13607	26838	44880	26024	25894	11029	11516	8718
MEAN	283	451	431	420	469	866	1496	839	863	356	371	291
MAX	354	583	496	463	517	1420	2300	1590	1240	483	988	422
MIN	243	214	300	383	409	526	1120	560	507	279	256	234
AC-FT	17380	26840	26490	25800	26990	53230	89020	51620	51360	21880	22840	17290
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1992, BY WATER YEAR (WY)

	MEAN	369	536	430	421	482	659	791	1307	1542	703	400	322
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1963 - 1992

ANNUAL TOTAL	246784	217162	
ANNUAL MEAN	676	593	
HIGHEST ANNUAL MEAN			1522
LOWEST ANNUAL MEAN			233
HIGHEST DAILY MEAN	3600	May 23	2300
LOWEST DAILY MEAN	214	Nov 1	214
ANNUAL SEVEN-DAY MINIMUM	248	Oct 27	239
INSTANTANEOUS PEAK FLOW			2400
INSTANTANEOUS PEAK STAGE			
INSTANTANEOUS LOW FLOW			201
ANNUAL RUNOFF (AC-FT)	489500	430700	488800
10 PERCENT EXCEEDS	1350	1280	1270
50 PERCENT EXCEEDS	500	451	440
90 PERCENT EXCEEDS	301	279	210

RIO GRANDE BASIN

08269000 RIO PUEBLO DE TAOS NEAR TAOS, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1987 to January 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	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)
NOV 14...	1245	19	175	8.0	12.0	4.5	573	10.2	100	--	33
JAN 09...	1245	11	170	7.8	9.5	0.0	582	12.1	120	0	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)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3 (00452)	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)
NOV 14...	5.4	2.8	0.1	0.70	--	--	--	94	17	1.4	<0.10
JAN 09...	6.1	3.2	0.1	0.70	146	0	120	--	22	1.8	0.20
DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, 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)	
NOV 14...	--	117	<1	1	20	<1	<1.0	2	<1	--	
JAN 09...	7.4	149	<1	<1	<10	<1	<1.0	<1	1	2	
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 (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)	
NOV 14...	5	21	3	1	<0.10	<0.1	<1	<1	20	15	
JAN 09...	2	<3	<1	<1	<0.10	<0.1	<1	<1	20	<3	

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.

WATER-DISCHARGE RECORDS

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	11	8.8	7.5	8.8	10	15	75	71	51	21	18
2	18	12	8.5	e7.3	9.1	10	14	74	69	49	21	18
3	18	12	e8.3	e7.3	9.1	11	14	77	66	47	21	17
4	18	11	e8.1	7.4	8.8	11	16	73	70	48	20	17
5	18	11	e8.0	7.3	8.7	14	16	66	79	46	21	17
6	17	11	8.6	7.4	8.5	11	18	63	92	43	21	16
7	17	11	8.7	7.0	9.1	11	22	63	97	41	21	16
8	17	11	8.7	7.0	8.7	11	27	63	92	39	19	15
9	17	10	8.6	e7.2	8.6	11	32	63	86	39	19	15
10	17	11	8.7	e7.2	8.4	10	37	62	81	36	20	15
11	17	11	8.7	e7.3	8.4	10	40	55	79	34	19	15
12	17	10	8.6	e7.4	8.3	11	39	53	80	33	20	14
13	17	9.9	8.4	7.3	8.2	12	48	57	83	32	20	14
14	17	11	e8.0	7.4	8.1	14	58	64	84	30	21	14
15	17	10	e8.0	7.3	8.1	16	53	67	83	29	20	14
16	17	9.6	e8.0	7.8	8.1	16	49	69	80	28	21	14
17	16	8.8	e8.0	8.3	8.1	17	45	70	78	27	20	14
18	16	9.3	8.7	7.7	e8.0	16	44	69	74	26	19	13
19	15	8.9	8.7	6.4	e8.0	14	40	70	74	27	19	14
20	15	9.3	8.4	6.1	e8.0	13	34	73	73	27	18	14
21	15	10	8.4	7.6	8.1	13	31	84	73	27	18	14
22	15	9.2	8.5	6.9	8.0	13	30	79	72	25	18	13
23	14	e8.9	8.2	5.7	8.2	12	30	75	71	25	18	13
24	14	e8.8	8.4	7.5	8.4	12	31	73	70	25	23	13
25	14	e8.4	8.1	8.0	8.5	12	38	69	67	25	23	13
26	13	e8.8	8.0	8.7	8.4	13	45	68	67	26	22	12
27	13	e8.8	8.3	8.6	8.4	14	51	71	62	25	20	12
28	13	e8.9	e7.7	8.2	8.4	14	59	77	58	24	20	12
29	12	9.1	e7.5	8.7	9.1	14	64	77	55	23	19	12
30	13	9.5	e7.5	8.5	---	14	75	76	53	22	19	12
31	11	---	e7.5	8.5	---	15	---	75	---	22	19	---
TOTAL	487	299.2	256.6	232.5	244.6	395	1115	2150	2239	1001	620	430
MEAN	15.7	9.97	8.28	7.50	8.43	12.7	37.2	69.4	74.6	32.3	20.0	14.3
MAX	19	12	8.8	8.7	9.1	17	75	84	97	51	23	18
MIN	11	8.4	7.5	5.7	8.0	10	14	53	53	22	18	12
AC-FT	966	593	509	461	485	783	2210	4260	4440	1990	1230	853
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1992, BY WATER YEAR (WY)

	MEAN	11.7	9.10	7.27	6.05	5.98	8.86	22.6	59.0	70.0	29.5	18.3	13.6
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 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1913 - 1992		
ANNUAL TOTAL	8819.2			9469.9					
ANNUAL MEAN	24.2			25.9			22.2		
HIGHEST ANNUAL MEAN							46.7		
LOWEST ANNUAL MEAN							9.91		
HIGHEST DAILY MEAN	203	May 22		97	Jun 7		246	Jun 4 1942	
LOWEST DAILY MEAN	6.0	Jan 1		5.7	Jan 23		2.0	Jan 28 1981	
ANNUAL SEVEN-DAY MINIMUM	6.2	Jan 1		6.8	Jan 18		2.7	Jan 22 1981	
INSTANTANEOUS PEAK FLOW				101	Jun 7		310	Jun 8 1979	
INSTANTANEOUS PEAK STAGE				1.68	Jun 7		3.12	May 13 1941	
INSTANTANEOUS LOW FLOW				3.8	Jan 20		1.4	Nov 2 1951	
ANNUAL RUNOFF (AC-FT)	17490			18780			16050		
10 PERCENT EXCEEDS	57			70			52		
50 PERCENT EXCEEDS	17			15			11		
90 PERCENT EXCEEDS	7.9			8.0			5.4		

RIO GRANDE BASIN

08271000 RIO LUCERO NEAR ARROYO SECO, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1987 to March 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	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)
NOV 14...	1030	11	100	7.6	7.0	1.0	632	12.1	54	12	19
JAN 28...	1245	12	110	7.5	7.0	0.0	568	13.0	57	8	20
MAR 25...	1045	11	100	7.4	3.0	3.0	642	12.8	44	12	15
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)	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)	
NOV 14...	1.5	1.4	0.1	0.60	51	0	42	7.3	0.70	<0.10	
JAN 28...	1.6	1.7	0.1	0.70	59	0	48	6.0	1.1	0.20	
MAR 25...	1.5	2.1	0.1	0.60	39	0	32	6.6	0.40	0.10	
DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, 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)	
NOV 14...	5.9	62	<1	1	<10	<1	<1.0	2	<1	--	
JAN 28...	6.7	67	<1	<1	<10	<1	<1.0	<1	<1	1	
MAR 25...	8.2	54	<1	<1	<10	<1	<1.0	<1	<1	--	
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, 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)	
NOV 14...	1	24	3	2	<0.10	<0.1	<1	<1	20	9	
JAN 28...	2	26	<1	<1	<0.10	<0.1	<1	<1	60	7	
MAR 25...	1	140	2	<1	<0.10	<0.1	<1	<1	30	11	

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, 4.3 mi upstream from Rio Chiquito, and at mile 6.9.

DRAINAGE AREA.--83 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	10	7.2	e8.1	e6.8	7.9	33	127	92	28	18	9.6
2	13	12	6.8	e7.2	e6.3	8.4	28	136	88	27	15	9.1
3	13	10	5.8	e7.9	e6.2	9.9	28	143	86	26	16	8.7
4	13	9.9	7.2	e10	e6.2	7.8	31	140	81	25	14	8.3
5	13	9.6	7.8	e10	e6.2	5.2	32	134	82	24	15	7.9
6	12	9.0	7.4	e9.0	e6.4	7.6	35	124	85	22	15	7.7
7	12	9.1	7.7	e8.2	e6.6	12	41	118	86	20	14	7.4
8	12	8.6	7.6	e7.7	e6.4	13	46	112	89	19	12	7.4
9	12	9.1	7.6	e7.3	e6.2	12	47	108	85	23	12	7.3
10	12	9.8	8.4	e7.7	6.0	11	55	113	75	20	12	7.1
11	12	12	9.4	e8.2	5.6	11	59	105	70	18	13	7.0
12	11	11	11	e8.5	5.7	11	55	98	67	17	14	6.8
13	11	9.7	11	e7.9	6.0	13	63	100	66	17	13	6.6
14	11	13	8.1	e7.5	6.3	15	89	109	65	16	15	6.8
15	11	12	9.1	e7.2	6.0	17	88	114	62	15	14	8.3
16	11	12	11	7.5	6.1	18	77	113	57	15	12	8.5
17	12	11	11	7.8	5.8	18	72	111	54	20	12	7.8
18	11	11	12	e7.6	5.3	17	75	110	50	17	11	7.3
19	11	11	11	e6.9	5.7	15	72	108	47	15	11	8.1
20	12	7.3	9.5	e7.3	6.6	14	65	113	44	14	10	8.5
21	11	9.3	11	e7.0	6.9	16	59	115	43	15	9.7	7.9
22	12	11	10	e6.8	6.4	17	57	114	40	14	9.8	7.4
23	11	5.9	e9.4	e6.8	6.6	17	55	114	39	16	9.7	6.8
24	12	4.4	e8.5	e6.6	5.7	17	59	117	38	31	13	6.6
25	12	7.7	e9.1	e6.5	6.0	16	65	109	37	23	16	6.4
26	12	8.1	e10	e6.4	6.2	18	70	98	37	32	20	6.3
27	12	8.4	e8.9	e6.4	6.4	21	79	93	36	24	15	6.3
28	12	8.4	e7.5	e6.4	6.7	24	92	92	34	21	12	6.2
29	13	8.0	e6.8	e6.5	7.0	25	105	92	32	17	11	6.1
30	12	7.5	e7.3	e6.6	---	29	117	97	30	16	9.6	6.1
31	12	---	e7.7	e6.8	---	36	---	92	---	15	11	---
TOTAL	370	285.8	272.8	232.3	180.3	479.8	1849	3469	1797	622	404.8	222.3
MEAN	11.9	9.53	8.80	7.49	6.22	15.5	61.6	112	59.9	20.1	13.1	7.41
MAX	14	13	12	10	7.0	36	117	143	92	32	20	9.6
MIN	11	4.4	5.8	6.4	5.3	5.2	28	92	30	14	9.6	6.1
AC-FT	734	567	541	461	358	952	3670	6880	3560	1230	803	441
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1992, BY WATER YEAR (WY)

	7.33	6.44	5.66	5.12	5.49	8.66	31.7	88.7	49.0	14.3	12.6	8.87
MEAN	7.33	6.44	5.66	5.12	5.49	8.66	31.7	88.7	49.0	14.3	12.6	8.87
MAX	14.2	11.8	10.4	9.19	9.31	19.1	91.9	237	170	41.9	35.7	24.9
(WY)	1958	1987	1958	1958	1989	1989	1962	1973	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1953 - 1992
ANNUAL TOTAL	10917.9	10185.1	
ANNUAL MEAN	29.9	27.8	20.4
HIGHEST ANNUAL MEAN			42.4
LOWEST ANNUAL MEAN			5.96
HIGHEST DAILY MEAN	590	May 22	590
LOWEST DAILY MEAN	4.0	Jan 1	4.60
ANNUAL SEVEN-DAY MINIMUM	4.2	Jan 24	1.2
INSTANTANEOUS PEAK FLOW			644
INSTANTANEOUS PEAK STAGE			2.09
INSTANTANEOUS LOW FLOW			3.1
ANNUAL RUNOFF (AC-FT)	21660	20200	14770
10 PERCENT EXCEEDS	59	89	48
50 PERCENT EXCEEDS	14	12	7.9
90 PERCENT EXCEEDS	5.0	6.5	4.0

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 fair 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	42	52	52	e43	66	122	433	273	40	18	21
2	49	47	51	43	49	65	112	392	246	34	16	22
3	48	41	42	55	52	67	106	371	227	32	16	21
4	46	41	48	56	50	74	114	420	214	32	17	19
5	47	45	47	54	54	93	120	402	206	32	17	20
6	47	47	48	53	52	100	125	369	233	28	17	19
7	46	49	48	53	49	96	148	330	231	25	e22	19
8	43	49	48	53	54	88	178	316	243	23	e21	18
9	40	49	48	46	58	79	205	298	250	24	e21	17
10	39	51	47	52	57	75	230	296	218	24	20	16
11	39	84	48	e41	e50	71	260	251	190	23	21	17
12	39	62	51	e39	e48	67	259	341	e175	23	20	16
13	37	52	48	e37	e45	70	341	248	e163	21	20	16
14	38	80	40	e48	e40	73	519	211	e153	20	25	17
15	38	86	40	e48	e37	75	524	216	142	19	24	17
16	40	72	53	e44	e35	78	443	209	129	19	23	18
17	38	72	64	e41	e37	80	478	188	110	18	24	17
18	39	67	55	e42	e39	82	444	182	101	18	24	16
19	38	64	56	e45	e41	76	402	178	91	18	24	16
20	40	57	57	e44	e44	72	342	193	86	17	21	16
21	39	57	55	e42	e49	75	290	224	85	20	20	18
22	38	63	56	e40	e53	80	280	246	80	17	19	18
23	37	52	54	e40	e54	78	252	220	75	17	20	17
24	38	49	48	e41	e54	75	245	234	67	20	25	17
25	38	55	51	e42	57	75	261	227	68	22	28	17
26	37	56	55	e44	59	80	275	210	65	25	26	17
27	37	54	47	e46	61	86	299	220	59	40	24	17
28	37	57	44	e47	64	93	346	253	57	42	22	16
29	40	57	55	e44	66	106	367	243	51	19	20	15
30	40	56	53	e40	---	115	414	304	44	17	21	15
31	40	---	52	e41	---	121	---	289	---	17	21	---
TOTAL	1263	1713	1561	1413	1451	2531	8501	8514	4332	746	657	525
MEAN	40.7	57.1	50.4	45.6	50.0	81.6	283	275	144	24.1	21.2	17.5
MAX	51	86	64	56	66	121	524	433	273	42	28	22
MIN	37	41	40	37	35	65	106	178	44	17	16	15
AC-FT	2510	3400	3100	2800	2880	5020	16860	16890	8590	1480	1300	1040
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1992, BY WATER YEAR (WY)

	MEAN	26.0	31.5	32.9	31.3	36.6	45.6	110	235	128	28.1	25.1	22.4
MAX	74.9	71.9	56.8	47.3	60.3	91.0	301	844	708	113	97.9	63.5	
(WY)	1958	1958	1987	1985	1987	1985	1985	1984	1979	1979	1957	1957	
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1957 - 1992

ANNUAL TOTAL	34502	33207	
ANNUAL MEAN	94.5	90.7	62.0
HIGHEST ANNUAL MEAN			168
LOWEST ANNUAL MEAN			14.5
HIGHEST DAILY MEAN	1490	May 22	1590
LOWEST DAILY MEAN	17	Jul 18	2.6
ANNUAL SEVEN-DAY MINIMUM	19	Jul 14	3.0
INSTANTANEOUS PEAK FLOW			2380
INSTANTANEOUS PEAK STAGE		7.52	8.93
INSTANTANEOUS LOW FLOW		14	1.9
ANNUAL RUNOFF (AC-FT)	68430	65870	44910
10 PERCENT EXCEEDS	182	249	122
50 PERCENT EXCEEDS	51	49	31
90 PERCENT EXCEEDS	34	18	9.5

RIO GRANDE BASIN

08276300 RIO PUEBLO DE TAOS BELOW LOS CORDOVAS, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD 1986 to current year.--Water years 1981, 1986 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE AIR	TEMPER-ATURE WATER	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL)	HARD-NESS TOTAL (MG/L AS CACO3)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3	CALCIUM DIS-SOLVED (MG/L AS CA)
		(00061)	(US/CM) (00095)	(00400)	(DEG C) (00020)	(DEG C) (00010)	(00025)	(MG/L) (00300)	(MG/L) (00340)	(00900)	(MG/L) (00904)	(00915)
NOV 25...	1230	50	445	8.2	7.5	4.5	596	12.3	<10	220	72	67
JAN 28...	1045	47	370	7.9	-5.0	0.0	601	16.5	11	--	--	--
MAR 25...	1345	74	360	8.3	13.0	10.0	597	11.2	14	180	53	55
MAY 27...	1215	196	240	8.2	12.5	10.0	588	8.8	13	120	31	39
JUL 29...	1115	23	500	8.3	24.0	18.0	602	8.4	<10	260	0	76
SEP 01...	1035	21	500	8.3	18.0	15.0	600	9.0	<10	--	--	--
DATE		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3)	ALKA-LINITY WAT DIS TOT IT FIELD (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)	
		(00925)	(00930)	(00931)	(00935)	(00453)	(00452)	(39086)	(00945)	(00940)	(00950)	
NOV 25...	13	20	0.6	1.3	182	0	149	56	9.5	0.50		
JAN 28...	--	--	--	--	--	--	--	--	--	--		
MAR 25...	11	15	0.5	1.2	148	5	129	43	11	0.40		
MAY 27...	6.7	7.4	0.3	0.90	115	0	94	22	3.7	0.30		
JUL 29...	16	24	0.7	2.1	321	0	263	58	9.9	0.50		
SEP 01...	--	--	--	--	--	--	--	--	--	--		
DATE		SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
		(00955)	(70301)	(00620)	(00618)	(00615)	(00613)	(00630)	(00631)	(00610)	(00608)	(00605)
NOV 25...	14		273	0.440	0.430	0.020	0.030	0.460	0.460	0.020	0.020	--
JAN 28...	--	--	--	0.340	0.490	0.030	0.030	0.370	0.520	0.210	0.240	0.29
MAR 25...	11		227	0.130	0.160	0.020	0.020	0.150	0.180	0.170	0.180	0.23
MAY 27...	9.9		147	0.047	0.047	0.020	0.020	0.067	0.067	0.080	0.070	--
JUL 29...	17		363	0.048	0.080	0.030	0.040	0.078	0.120	0.510	0.540	0.39
SEP 01...	--	--	--	0.057	0.066	0.020	0.020	0.077	0.086	0.120	0.110	0.18

RIO GRANDE BASIN

08276300 RIO PUEBLO DE TAOS BELOW LOS CORDOVAS, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	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)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	SEDI- MENT, SUS- PENDEDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 25...	<0.20	--	0.090	0.080	0.080	1.9	40	14	8	1.1	80
JAN 28...	0.50	0.87	0.100	0.090	0.100	2.1	--	--	30	3.8	64
MAR 25...	0.40	0.55	0.070	0.070	0.060	4.3	30	16	21	4.2	85
MAY 27...	<0.20	--	0.040	0.040	0.030	3.4	20	32	46	24	51
JUL 29...	0.90	0.98	0.130	0.120	0.110	3.5	60	7	30	1.9	72
SEP 01...	0.30	0.38	0.050	0.050	0.040	2.9	--	--	28	1.6	38

08276500 RIO GRANDE BELOW TAOS JUNCTION BRIDGE, NEAR TAOS, NM

(Surveillance network station)

LOCATION.--Lat 36°19'12", long 105°45'14", in NW¼NE¼ sec.15, T.24 N., R.11 E., Taos County, Hydrologic Unit 13020101, on left bank 1.7 mi downstream from bridge on State Highway 567, 2.0 mi downstream from Rio Pueblo de Taos, 11.8 mi southwest of Taos, and at mile 1,657.7.

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 except for estimated daily discharges, which are fair. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	384	288	569	524	483	615	1460	1980	1240	516	357	406
2	371	290	424	489	492	615	1440	1970	1220	477	336	374
3	362	314	407	e480	493	618	1450	1780	1150	442	313	351
4	369	349	418	e500	490	643	1450	1660	1080	430	318	343
5	363	434	442	522	494	649	1450	1490	1070	440	331	338
6	346	446	486	519	492	652	1470	1280	1090	433	344	328
7	338	458	479	515	489	661	1500	1160	1110	395	341	327
8	333	491	489	504	511	659	1500	1130	1140	374	333	322
9	336	558	496	488	512	666	1540	1030	1210	365	330	321
10	328	619	494	483	520	680	1610	1080	1300	355	327	314
11	323	631	507	494	538	708	1710	1060	1410	362	335	307
12	319	612	528	526	560	710	1800	993	1360	362	402	296
13	314	598	525	515	562	710	1990	901	1290	355	365	284
14	323	645	496	503	603	723	2270	851	1310	347	344	277
15	311	622	480	489	579	741	2540	821	1220	346	328	275
16	309	582	476	497	570	769	2670	801	1080	340	335	283
17	301	563	483	e480	551	857	2460	825	1000	341	331	278
18	297	569	492	e490	546	929	2350	791	904	351	332	273
19	292	589	518	e485	537	936	2190	766	832	344	336	272
20	293	585	536	e475	550	938	2010	800	799	339	324	271
21	300	575	539	e475	576	957	1760	846	804	329	312	281
22	304	569	547	e470	590	1020	1520	892	850	337	297	292
23	297	510	559	e480	595	1180	1360	890	887	325	291	296
24	295	383	540	e490	578	1330	1330	976	883	320	296	417
25	296	424	533	e480	573	1420	1340	980	811	316	325	376
26	301	490	553	e470	571	1440	1360	992	743	395	332	331
27	301	535	532	e470	579	1410	1490	986	687	386	734	328
28	313	523	509	e480	591	1490	1680	1070	651	393	995	321
29	317	595	506	479	600	1530	1710	1060	592	421	750	318
30	316	592	510	481	---	1460	1790	1230	543	411	563	311
31	322	---	524	480	---	1460	---	1290	---	388	461	---
TOTAL	9974	15439	15597	15233	15825	29176	52200	34381	30266	11735	12118	9511
MEAN	322	515	503	491	546	941	1740	1109	1009	379	391	317
MAX	384	645	569	526	603	1530	2670	1980	1410	516	995	417
MIN	292	288	407	470	483	615	1330	766	543	316	291	271
AC-FT	19780	30620	30940	30210	31390	57870	103500	68190	60030	23280	24040	18870
e	Estimated											

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 1992, BY WATER YEAR (WY)

	MEAN	415	533	494	474	541	660	879	1788	1787	716	411	373
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	1957	1977	1977	1959	1956	1956	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1926 - 1992
ANNUAL TOTAL	302444	251455	
ANNUAL MEAN	829	687	756
HIGHEST ANNUAL MEAN			1840
LOWEST ANNUAL MEAN			271
HIGHEST DAILY MEAN	4390	May 22	2670
LOWEST DAILY MEAN	288	Nov 1	271
ANNUAL SEVEN-DAY MINIMUM	297	Oct 19	276
INSTANTANEOUS PEAK FLOW			2730
INSTANTANEOUS PEAK STAGE			6.03
INSTANTANEOUS LOW FLOW			265
ANNUAL RUNOFF (AC-FT)	599900	498800	547600
10 PERCENT EXCEEDS	1750	1430	1460
50 PERCENT EXCEEDS	595	515	470
90 PERCENT EXCEEDS	363	314	241

RIO GRANDE BASIN

08276500 RIO GRANDE BELOW TAOS JUNCTION BRIDGE, NEAR TAOS, NM -- Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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 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)
NOV 26...	1045	460	372	8.2	7.5	5.0	3.9	612	11.1	<10	36	K10
FEB 25...	1200	570	270	8.0	5.0	4.0	--	613	12.0	<10	42	26
MAY 28...	1015	1070	290	8.2	12.5	12.0	7.3	605	9.2	15	K110	120
SEP 02...	0930	375	290	8.3	12.5	16.0	5.6	613	8.2	<10	45	23
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 26...		120	21	37	7.4	26	1	3.6	124	0	102	
FEB 25...		100	55	30	6.1	18	0.8	2.7	55	0	45	
MAY 28...		110	26	33	6.5	20	0.8	3.0	101	0	83	
SEP 02...		110	19	33	6.7	20	0.8	3.4	101	5	91	
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 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, DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
NOV 26...		54	8.5	0.60	27	227	<0.010	<0.010	0.280	0.400	<0.010	0.010
FEB 25...		35	7.7	0.30	29	157	<0.010	<0.010	0.290	0.300	0.030	0.030
MAY 28...		48	7.1	0.50	18	187	<0.010	<0.010	0.140	0.140	0.030	0.020
SEP 02...		45	6.9	<0.10	24	194	<0.010	<0.010	0.160	0.140	0.030	0.010
DATE		NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS 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)	BORON, DIS-SOLVED (UG/L AS B) (01020)
NOV 26...		--	<0.20	--	0.060	0.030	0.020	2.6	<0.010	<1	2	50
FEB 25...		0.17	0.20	0.49	0.060	0.020	0.030	2.1	--	--	--	20
MAY 28...		0.17	0.20	0.34	0.040	0.030	0.020	4.5	<0.010	--	--	40
SEP 02...		--	<0.20	--	0.030	0.030	0.010	2.9	<0.010	2	2	40

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 Osha Canyon and 6.0 mi east of Penasco.

DRAINAGE AREA.--101 mi².

PERIOD OF RECORD.--December 1991 to September 1992.

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 taken during year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	e16	e15	e14	18	51	391	251	55	25	12
2	---	---	e16	e15	e14	18	48	390	228	52	23	9.8
3	---	---	e16	e15	e14	18	50	375	214	51	23	9.0
4	---	---	e16	e15	e14	22	61	350	214	50	22	9.9
5	---	---	e16	e15	e14	15	68	315	220	46	23	10
6	---	---	e16	e15	e14	16	79	286	218	38	22	10
7	---	---	e16	e14	e14	24	108	276	206	35	21	10
8	---	---	e16	e14	e14	24	139	274	201	33	20	10
9	---	---	e16	e14	e14	21	173	276	189	39	20	12
10	---	---	e16	e15	e14	21	220	283	171	35	20	15
11	---	---	e16	e15	e15	24	243	262	163	35	20	15
12	---	---	e16	e15	e15	33	248	252	156	34	22	15
13	---	---	e16	e15	e16	23	302	263	152	33	17	15
14	---	---	e16	e15	e17	27	356	275	143	31	14	15
15	---	---	e16	e15	e18	31	322	274	133	28	12	25
16	---	---	e16	e14	e17	32	283	258	122	27	10	20
17	---	---	e16	e14	e14	36	267	248	112	32	9.4	18
18	---	---	e15	e14	e19	34	279	235	100	30	8.5	17
19	---	---	e15	e14	e20	32	247	228	97	29	7.9	21
20	---	---	e15	e14	e22	34	204	239	96	29	6.8	20
21	---	---	e14	e14	17	33	181	237	94	30	7.3	19
22	---	---	e14	e14	23	36	170	224	88	28	7.0	18
23	---	---	e14	e14	16	36	165	267	86	35	7.3	17
24	---	---	e14	e15	18	36	179	268	83	58	20	16
25	---	---	e14	e15	20	37	208	269	82	52	22	15
26	---	---	e14	e15	20	41	231	268	76	53	31	15
27	---	---	e14	e15	22	47	271	267	71	35	18	14
28	---	---	e14	e15	18	51	323	267	66	30	14	14
29	---	---	e14	e15	20	49	369	259	61	28	12	14
30	---	---	e14	e14	---	46	386	255	57	26	11	14
31	---	---	e15	e14	---	50	---	246	---	24	12	---
TOTAL	---	---	472	452	487	965	6231	8577	4150	1141	508.2	444.7
MEAN	---	---	15.2	14.6	16.8	31.1	208	277	138	36.8	16.4	14.8
MAX	---	---	16	15	23	51	386	391	251	58	31	25
MIN	---	---	14	14	14	15	48	224	57	24	6.8	9.0
AC-FT	---	---	936	897	966	1910	12360	17010	8230	2260	1010	882

e Estimated

SUMMARY STATISTICS

FOR 1992 WATER YEAR

HIGHEST DAILY MEAN	391	May 1
LOWEST DAILY MEAN	6.8	Aug 20
ANNUAL SEVEN-DAY MINIMUM	7.7	Aug 17
INSTANTANEOUS PEAK FLOW	427	Apr 30
INSTANTANEOUS PEAK STAGE	5.70	Apr 30
INSTANTANEOUS LOW FLOW	5.9	Aug 20
10 PERCENT EXCEEDS	260	
50 PERCENT EXCEEDS	22	
90 PERCENT EXCEEDS	14	

RIO GRANDE BASIN

08278500 RIO SANTA BARBARA NEAR 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 September 1992. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	e16	e15	e10	e10	10	14	163	155	77	37	27
2	---	e16	e14	e10	e10	9.2	14	166	151	72	36	25
3	---	e17	e14	e9.0	9.8	9.3	15	178	153	68	37	24
4	---	e17	e15	e8.6	9.4	18	19	179	165	65	38	23
5	---	17	e17	e8.8	9.1	30	21	167	191	61	37	22
6	---	17	e17	e9.0	9.7	27	24	152	211	58	37	22
7	---	18	e18	e9.4	14	58	31	149	182	55	34	21
8	---	17	e18	e9.8	11	53	41	144	176	54	33	20
9	---	17	e18	e10	9.1	25	52	144	167	58	32	19
10	---	18	e18	e10	8.7	15	65	146	155	63	33	18
11	---	19	e17	e9.4	e8.0	12	69	135	153	57	32	18
12	---	16	e16	e9.0	e8.0	12	71	135	155	53	32	18
13	---	16	e15	e9.0	e7.8	12	91	141	160	54	30	17
14	---	19	e13	e8.2	e7.8	11	112	152	157	48	30	19
15	---	17	e12	e8.2	e8.0	12	111	158	150	46	29	29
16	---	16	e13	e8.2	e7.8	13	100	163	142	43	28	22
17	---	15	15	e8.8	e6.8	14	96	168	133	44	27	20
18	---	16	13	e8.8	e7.0	13	98	165	124	41	26	19
19	---	16	13	e8.8	e7.6	14	86	169	120	40	25	25
20	---	17	12	e9.0	e8.0	21	75	192	118	41	24	23
21	---	17	12	e9.0	e8.0	13	70	205	118	40	24	23
22	---	18	11	e9.0	e8.4	13	71	200	115	36	24	20
23	---	19	e11	e9.0	8.7	13	72	202	112	45	25	19
24	---	19	e10	e9.0	9.6	13	83	188	107	51	43	18
25	---	19	e11	e9.0	11	13	97	184	104	50	35	18
26	---	19	e11	e9.2	11	14	113	171	99	49	33	18
27	---	18	e11	e9.4	10	15	117	168	94	43	29	17
28	---	16	e11	e9.4	10	16	128	165	89	40	27	16
29	---	e16	e11	e9.8	9.9	15	146	158	84	40	26	16
30	---	e16	e11	e10	---	14	156	156	80	39	25	16
31	---	---	e10	e10	---	14	---	154	---	38	27	---
TOTAL	---	514	423	284.8	264.2	541.5	2258	5117	4120	1569	955	612
MEAN	---	17.1	13.6	9.19	9.11	17.5	75.3	165	137	50.6	30.8	20.4
MAX	---	19	18	10	14	58	156	205	211	77	43	29
MIN	---	15	10	8.2	6.8	9.2	14	135	80	36	24	16
AC-FT	---	1020	839	565	524	1070	4480	10150	8170	3110	1890	1210

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1992, BY WATER YEAR (WY)

	MEAN	11.6	10.1	7.73	6.59	6.44	10.1	41.7	92.5	95.4	32.8	43.7	23.8
MAX	17.0	17.1	13.6	9.24	9.11	17.5	75.3	165	175	62.1	129	66.5	
(WY)	1953	1992	1992	1953	1992	1992	1992	1992	1957	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 1992 WATER YEAR

WATER YEARS 1953 - 1992

ANNUAL MEAN		29.0	
HIGHEST ANNUAL MEAN		50.5	1957
LOWEST ANNUAL MEAN		12.0	1956
HIGHEST DAILY MEAN	211	267	May 28 1953
LOWEST DAILY MEAN	6.8	3.0	Jan 31 1957
ANNUAL SEVEN-DAY MINIMUM	7.5	3.1	Jan 30 1957
INSTANTANEOUS PEAK FLOW	255	377	Aug 23 1957
INSTANTANEOUS PEAK STAGE	5.41	5.41	Jun 6 1992
INSTANTANEOUS LOW FLOW	6.0	6.0	Feb 7 1992
ANNUAL RUNOFF (AC-FT)		21036	
10 PERCENT EXCEEDS	154	90	
50 PERCENT EXCEEDS	20	13	
90 PERCENT EXCEEDS	9.1	5.0	

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 13020101, on right bank 750 ft upstream from State Highway 68, 0.5 mi upstream from mouth, 0.5 mi east of Embudo 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). See also 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	50	51	e46	41	52	182	613	474	108	45	43
2	73	58	52	36	45	54	163	629	441	94	44	43
3	69	56	42	40	45	56	155	614	410	86	40	40
4	66	56	49	59	42	58	170	612	410	82	38	35
5	62	60	63	50	42	44	181	560	439	81	39	30
6	59	60	65	52	39	48	187	505	461	72	40	27
7	55	59	60	50	36	66	226	483	454	65	42	26
8	56	58	63	45	44	78	255	476	457	61	41	24
9	54	56	59	38	42	71	287	481	447	62	37	24
10	54	58	60	43	40	69	335	514	410	60	39	20
11	52	73	64	e38	41	69	395	466	382	62	61	19
12	49	67	64	e38	40	69	382	434	358	70	60	19
13	46	60	54	e39	41	77	474	440	344	74	55	19
14	46	70	41	e38	43	88	621	449	327	68	50	20
15	46	74	46	38	41	97	631	463	296	62	51	23
16	49	71	52	37	41	100	537	446	262	59	45	24
17	49	66	54	42	38	107	477	434	238	60	51	22
18	47	63	59	43	36	105	485	416	214	61	53	19
19	44	61	64	39	38	95	455	409	201	58	47	21
20	43	55	60	41	43	89	395	439	197	54	41	25
21	45	65	57	43	45	94	345	478	206	54	32	25
22	46	70	57	41	45	101	314	478	193	49	30	25
23	45	49	49	40	47	99	293	492	181	46	33	23
24	47	45	45	40	40	100	300	517	174	83	47	21
25	47	68	49	41	42	98	335	505	171	66	63	21
26	47	69	57	42	45	107	374	488	165	102	67	20
27	47	68	44	42	43	119	419	475	157	79	57	20
28	50	66	38	41	47	133	475	477	146	64	49	21
29	50	61	45	41	50	139	534	459	136	59	44	22
30	52	51	48	42	---	144	591	479	121	55	42	22
31	51	---	54	41	---	164	---	455	---	46	46	---
TOTAL	1623	1843	1665	1306	1222	2790	10973	15186	8872	2102	1429	743
MEAN	52.4	61.4	53.7	42.1	42.1	90.0	366	490	296	67.8	46.1	24.8
MAX	77	74	65	59	50	164	631	629	474	108	67	43
MIN	43	45	38	36	36	44	155	409	121	46	30	19
AC-FT	3220	3660	3300	2590	2420	5530	21760	30120	17600	4170	2830	1470

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1992, BY WATER YEAR (WY)

	38.1	35.2	31.0	28.4	30.1	45.0	146	306	194	50.2	49.1	41.2
MEAN	116	95.5	54.3	42.2	72.7	129	505	1231	813	204	222	190
MAX	1942	1942	1942	1985	1932	1989	1942	1941	1941	1937	1991	1929
(WY)	3.09	4.18	9.75	12.0	15.0	15.5	13.3	8.94	5.49	.86	2.71	2.79
MIN	1951	1951	1951	1951	1951	1951	1972	1972	1950	1951	1950	1950
(WY)												

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1924 - 1992

ANNUAL TOTAL	51099	49754	
ANNUAL MEAN	140	136	83.1
HIGHEST ANNUAL MEAN			235
LOWEST ANNUAL MEAN			12.8
HIGHEST DAILY MEAN	2300	631	2590
LOWEST DAILY MEAN	32	19	.20
ANNUAL SEVEN-DAY MINIMUM	34	21	.60
INSTANTANEOUS PEAK FLOW		706	4200
INSTANTANEOUS PEAK STAGE		4.09	7.60
INSTANTANEOUS LOW FLOW		18	.06
ANNUAL RUNOFF (AC-FT)	101400	98690	60230
10 PERCENT EXCEEDS	291	454	208
50 PERCENT EXCEEDS	68	58	34
90 PERCENT EXCEEDS	36	38	13

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

[illegible]

RIO GRANDE BASIN

08279500 RIO GRANDE AT EMBUDO, NM

LOCATION.--Lat 36°12'20", long 105°57'49", in SW¼SW¼ sec.23, T.23 N., R.9 E., Rio Arriba County, Hydrologic Unit 13020101, on right bank 0.2 mi downstream from bridge at Embudo, 2.8 mi downstream from Embudo Creek, and at mile 1,643.1.

DRAINAGE AREA.--10,400 mi², approximately, including 2,940 mi² in closed basin in San Luis Valley, CO.

PERIOD OF RECORD.--January 1889 to current year. Monthly discharge only for some periods, published in WSP 1312. Figures of daily discharge for Oct. 4 to Nov. 30, 1896, published in WSP 358, are unreliable and should not be used.

REVISED RECORDS.--WSP 358: 1900-1902. WSP 828: Drainage area. WSP 878: 1915-16. WSP 1512: 1892-99, 1904, 1916, 1931-32, 1939, 1944-45, 1950. WSP 1712: 1903(M). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 5,789.14 ft above National Geodetic Vertical Datum of 1929. Jan. 1 to Feb. 28, 1889, nonrecording gage 1.2 mi upstream at different datum. March 1889 to December 1903, nonrecording gage 1,300 ft upstream at different datum. September 1912 to June 1914, water-stage recorder on downstream end of bridge pier at site 200 ft upstream at present datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions upstream from station for irrigation of about 620,000 acres in Colorado and 40,000 acres in New Mexico. Several observations of water temperature were made during the year. National Weather Service gage-height telemeter and U.S. Army Corps of Engineers satellite telemeter at station.

AVERAGE DISCHARGE.--41 years (water years 1890-1930), 1,238 ft³/s, 896,900 acre-ft/yr.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	453	375	620	581	558	690	1690	2620	1740	680	418	475
2	445	363	538	543	571	687	1640	2690	1670	626	386	434
3	429	382	445	537	571	692	1640	2470	1580	583	349	413
4	430	422	490	589	567	731	1660	2370	1490	561	346	387
5	434	507	507	582	567	706	1680	2140	1500	563	356	375
6	412	523	534	586	568	719	1710	1850	1560	547	388	359
7	400	531	543	584	561	747	1780	1670	1550	490	384	354
8	395	553	550	570	583	758	1820	1620	1600	461	374	346
9	400	595	552	557	586	757	1880	1530	1650	456	366	347
10	393	702	552	559	590	765	2000	1610	1680	439	361	336
11	390	719	567	572	596	789	2160	1540	1790	448	408	329
12	384	714	587	596	609	793	2230	1430	1730	453	480	321
13	373	673	576	587	627	809	2470	1350	1650	451	427	305
14	385	725	538	575	636	822	2900	1290	1620	440	429	298
15	377	728	530	562	654	855	3190	1280	1540	429	406	299
16	377	677	528	550	634	894	3250	1230	1360	408	389	306
17	373	637	550	575	616	978	3010	1250	1260	412	397	306
18	364	628	549	579	607	1070	2890	1200	1140	418	388	295
19	355	642	569	561	599	1060	2680	1150	1060	406	385	295
20	352	644	585	547	612	1050	2430	1220	1020	391	368	301
21	358	630	589	563	630	1080	2130	1330	1020	387	345	310
22	371	633	590	547	651	1150	1860	1380	1050	385	324	323
23	365	578	599	540	677	1260	1660	1380	1070	368	324	324
24	363	470	586	541	646	1420	1610	1500	1080	407	341	425
25	359	480	578	543	637	1510	1670	1500	1010	391	395	435
26	368	538	597	546	633	1520	1740	1490	953	536	410	369
27	370	590	583	541	636	1520	1920	1460	888	478	657	356
28	382	585	557	540	658	1610	2170	1560	842	471	1040	353
29	393	643	560	542	666	1690	2300	1540	775	528	831	348
30	397	646	571	555	---	1630	2420	1690	710	531	639	340
31	400	---	581	555	---	1660	---	1780	---	448	545	---
TOTAL	12047	17533	17301	17405	17746	32422	64190	50120	39588	14592	13656	10464
MEAN	389	584	558	561	612	1046	2140	1617	1320	471	441	349
MAX	453	728	620	596	677	1690	3250	2690	1790	680	1040	475
MIN	352	363	445	537	558	687	1610	1150	710	368	324	295
AC-FT	23900	34780	34320	34520	35200	64310	127300	99410	78520	28940	27090	20760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1992, BY WATER YEAR (WY)

	421	557	520	501	568	701	1024	2061	1970	757	444	371
MEAN	421	557	520	501	568	701	1024	2061	1970	757	444	371
MAX	1795	1611	1052	799	888	1290	3544	7228	6837	3054	1699	1132
(WY)	1942	1942	1942	1942	1987	1989	1942	1941	1941	1941	1957	1982
MIN	182	243	269	300	323	286	274	249	199	188	186	171
(WY)	1957	1957	1957	1957	1957	1957	1981	1972	1977	1963	1956	1956

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1931 - 1992
ANNUAL TOTAL	337662	307064	
ANNUAL MEAN	925	839	825
HIGHEST ANNUAL MEAN			2077
LOWEST ANNUAL MEAN			308
HIGHEST DAILY MEAN	5500	May 22	11700
LOWEST DAILY MEAN	352	Oct 20	165
ANNUAL SEVEN-DAY MINIMUM	360	Oct 19	166
INSTANTANEOUS PEAK FLOW			16200
INSTANTANEOUS PEAK STAGE		6.90	15.90
INSTANTANEOUS LOW FLOW			285
ANNUAL RUNOFF (AC-FT)	669800	609100	597600
10 PERCENT EXCEEDS	1880	1680	1600
50 PERCENT EXCEEDS	681	582	503
90 PERCENT EXCEEDS	435	364	260

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.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	64	e56	e78	e90	109	550	3180	1400	122	75	140
2	55	82	e56	e82	e88	119	455	3160	1130	112	72	132
3	53	63	e54	e87	e89	128	467	3060	999	104	71	113
4	52	87	e54	e86	e91	118	548	2940	929	98	66	97
5	52	76	e54	e76	e92	111	539	2770	936	91	62	89
6	52	86	e54	e75	e90	122	560	2750	991	79	73	85
7	53	e79	e56	e74	e89	134	742	2570	892	72	111	80
8	54	e80	e58	e73	e88	153	847	2720	887	70	115	74
9	51	e82	e59	e74	e87	137	982	2420	931	71	89	70
10	49	e81	e60	e72	e87	132	1090	2970	839	68	78	70
11	46	e90	e60	e69	e86	130	1230	2150	730	90	94	63
12	43	e80	e60	e66	e85	134	1360	2100	694	106	76	55
13	44	e75	e60	e66	e83	147	1550	2310	651	143	71	54
14	44	e73	e60	e68	e82	170	2030	2360	593	118	69	51
15	44	e75	e61	e74	e80	196	2130	2270	508	95	97	53
16	43	e76	e62	e80	e79	208	1720	2110	385	82	86	62
17	43	e73	e63	e85	e77	208	1550	2000	347	67	72	65
18	44	e70	e62	e80	e74	209	1600	1940	304	60	66	59
19	45	e70	e62	e78	e61	177	1280	1860	292	55	63	64
20	45	e74	e64	e78	e53	174	976	2230	301	60	63	88
21	45	e78	e64	e82	e56	195	888	2270	297	64	74	82
22	47	e71	e67	e88	e60	217	994	1900	281	59	72	70
23	48	e66	e70	e92	e64	206	972	1710	238	55	136	63
24	49	e60	e76	e93	e66	215	1260	1790	216	65	415	60
25	51	e55	e78	e95	e68	243	1660	1540	219	90	537	55
26	51	e56	e79	e94	e69	287	1890	1660	213	116	391	50
27	48	e56	e80	e95	e74	316	2090	1620	194	131	252	45
28	54	e55	e80	e93	92	362	2540	1590	179	113	187	44
29	55	e55	e78	e90	99	353	2820	1360	168	94	154	43
30	67	e56	e77	e92	---	384	3040	1880	146	80	137	43
31	67	---	e76	e91	---	507	---	1620	---	73	129	---
TOTAL	1551	2144	2000	2526	2299	6301	40360	68810	16890	2703	4053	2119
MEAN	50.0	71.5	64.5	81.5	79.3	203	1345	2220	563	87.2	131	70.6
MAX	67	90	80	95	99	507	3040	3180	1400	143	537	140
MIN	43	55	54	66	53	109	455	1360	146	55	62	43
AC-FT e Estimated	3080	4250	3970	5010	4560	12500	80050	136500	33500	5360	8040	4200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1992, BY WATER YEAR (WY)

MEAN	95.5	85.2	60.4	56.2	71.8	170	852	1777	717	128	98.7	79.1
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1956 - 1992

ANNUAL TOTAL	158691		151756				
ANNUAL MEAN	435		415		350		
HIGHEST ANNUAL MEAN					723		1985
LOWEST ANNUAL MEAN					63.0		1977
HIGHEST DAILY MEAN	3890	May 11	3180	May 1	7720	May 10	1985
LOWEST DAILY MEAN	43	Oct 12	43	Oct 12	4.4	Sep 19	1956
ANNUAL SEVEN-DAY MINIMUM	44	Oct 12	44	Oct 12	5.6	Sep 18	1956
INSTANTANEOUS PEAK FLOW			3780	May 2	11200	May 28	1979
INSTANTANEOUS PEAK STAGE			5.19	May 2	6.46	May 14	1984
INSTANTANEOUS LOW FLOW			28	Dec 4	4.0	Sep 19	1956
ANNUAL RUNOFF (AC-FT)	314800		301000		253900		
10 PERCENT EXCEEDS	1470		1620		1020		
50 PERCENT EXCEEDS	90		86		80		
90 PERCENT EXCEEDS	55		54		30		

RIO GRANDE BASIN

08284100 RIO CHAMA NEAR LA PUENTE, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974, 1986 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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 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)
NOV 06...	1200	75	124	6.6	8.0	2.5	582	11.3	10	69	13
JAN 29...	1430	90	150	7.7	6.0	0.0	578	12.4	<10	--	--
MAR 24...	1130	198	300	8.0	9.5	4.0	585	12.0	22	140	54
JUN 12...	1200	721	104	7.8	22.0	17.5	586	8.4	<10	49	0
JUL 28...	1100	110	232	8.1	21.5	19.0	--	8.8	14	93	0
SEP 03...	1115	105	130	7.5	24.5	14.0	585	7.9	<10	--	--

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)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
NOV 06...	20	4.6	7.2	0.4	1.3	68	0	56	14	2.6
JAN 29...	--	--	--	--	--	--	--	--	--	--
MAR 24...	40	9.4	14	0.5	2.0	103	0	84	66	4.7
JUN 12...	15	2.8	4.0	0.2	1.2	68	0	56	8.6	0.40
JUL 28...	28	5.7	7.5	0.3	1.7	117	0	96	20	0.30
SEP 03...	--	--	--	--	--	--	--	--	--	--

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)	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, DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)
NOV 06...	0.20	17	100	--	<0.010	<0.010	<0.050	<0.050	<0.010	<0.010	--
JAN 29...	--	--	--	0.049	<0.010	0.020	<0.050	0.069	0.040	0.080	--
MAR 24...	0.20	16	203	--	0.010	<0.010	<0.050	<0.050	<0.010	0.020	--
JUN 12...	<0.10	18	84	--	<0.010	<0.010	<0.050	<0.050	0.020	0.020	--
JUL 28...	<0.10	19	140	--	<0.010	<0.010	<0.050	<0.050	0.040	0.030	0.36
SEP 03...	--	--	--	--	<0.010	<0.010	<0.050	<0.050	0.020	0.030	--

RIO GRANDE BASIN

08284100 RIO CHAMA NEAR LA PUENTE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	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)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 06...	<0.20	0.030	0.020	<0.010	2.0	<10	9	2	0.40	73
JAN 29...	<0.20	0.030	0.020	0.040	1.9	--	--	4	0.97	64
MAR 24...	0.20	0.030	<0.010	0.020	5.6	20	100	16	8.6	90
JUN 12...	<0.20	0.020	0.040	0.020	3.6	<10	52	6	12	91
JUL 28...	0.40	0.050	0.030	0.030	4.9	20	50	28	8.3	80
SEP 03...	<0.20	0.020	0.030	0.020	1.0	--	--	3	0.85	100

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 1970 to current 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.--22 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, 985 ft³/s, May 20; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	104	918	353	63	23	23
2	.00	.00	.00	.00	.00	.00	93	902	231	62	22	21
3	.00	.00	.00	.00	.00	.00	117	876	311	75	17	16
4	.00	.00	.00	.00	.00	.00	174	773	318	75	10	5.5
5	.00	.00	.00	.00	.00	.00	172	714	466	75	5.5	1.0
6	.00	.00	.00	.00	.00	.00	174	730	488	75	14	1.0
7	.00	.00	.00	.00	.00	.00	248	737	361	75	10	1.0
8	10	.00	.00	.00	.00	.00	321	736	219	70	28	1.0
9	.00	.00	.00	.00	.00	.00	397	721	128	51	13	1.0
10	.00	.00	.00	.00	.00	.00	472	765	51	52	10	1.0
11	.00	.00	.00	.00	.00	.00	529	571	52	59	17	.50
12	.00	.00	.00	.00	.00	.00	593	540	49	42	7.0	.50
13	.00	.00	.00	.00	.00	.00	650	623	50	27	42	.50
14	.00	.00	.00	.00	.00	.00	848	702	50	27	7.0	.50
15	.00	.00	.00	.00	.00	.00	752	714	50	27	11	.50
16	.00	.00	.00	.00	.00	.00	596	711	59	31	13	.00
17	.00	.00	.00	.00	.00	.00	529	740	73	37	12	.00
18	.00	.00	.00	.00	.00	8.6	532	774	74	37	1.0	.00
19	.00	.00	.00	.00	.00	13	424	833	73	35	.00	.00
20	.00	.00	.00	.00	.00	14	347	985	73	31	.50	.00
21	.00	.00	.00	.00	.00	18	328	960	72	29	.00	.00
22	.00	.00	.00	.00	.00	18	358	858	73	21	.00	.00
23	.00	.00	.00	.00	.00	16	327	736	73	12	.00	.00
24	.00	.00	.00	.00	.00	19	421	795	73	26	18	.00
25	.00	.00	.00	.00	.00	23	551	735	105	40	76	.00
26	.00	.00	.00	.00	.00	28	610	715	176	63	72	.00
27	.00	.00	.00	.00	.00	36	691	699	177	66	64	.00
28	.00	.00	.00	.00	.00	38	823	650	174	59	59	.00
29	.00	.00	.00	.00	.00	39	929	520	157	45	46	.00
30	.00	.00	.00	.00	---	56	946	443	97	33	34	.00
31	.00	---	.00	.00	---	87	---	361	---	27	29	---
TOTAL	10.00	0.00	0.00	0.00	0.00	413.60	14056	22537	4706	1447	661.00	74.00
MEAN	.32	.000	.000	.000	.000	13.3	469	727	157	46.7	21.3	2.47
MAX	10	.00	.00	.00	.00	87	946	985	488	75	76	23
MIN	.00	.00	.00	.00	.00	.00	93	361	49	12	.00	.00
AC-FT	20	.00	.00	.00	.00	820	27880	44700	9330	2870	1310	147

CAL YR 1991 TOTAL 57166.60 MEAN 157 MAX 1000 MIN .00 AC-FT 113400
WTR YR 1992 TOTAL 43904.60 MEAN 120 MAX 985 MIN .00 AC-FT 87080

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. 22 years (water years 1971-92), 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, 920 ft³/s, May 21; no flow Dec. 29, 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	1.5	.50	.50	1.0	19	445	881	401	63	25	26
2	.50	1.5	.50	.50	1.0	24	329	863	262	61	24	21
3	.50	1.0	.50	.50	1.0	33	310	844	339	80	23	16
4	1.0	1.0	.50	.50	1.0	34	367	754	319	80	11	8.1
5	.50	1.5	.50	.50	1.0	35	339	691	446	80	10	4.5
6	.50	1.5	.50	.50	1.0	36	306	694	498	76	8.6	1.5
7	.50	1.5	.50	.50	1.0	63	380	706	398	73	6.6	.50
8	5.0	1.5	.50	.50	1.0	59	422	711	257	74	32	.50
9	4.5	1.5	.50	.50	1.0	48	476	684	201	49	18	.50
10	1.5	1.5	.50	.50	1.0	41	536	779	60	53	15	.50
11	1.0	2.0	.50	.50	1.0	40	588	566	56	64	17	.50
12	.50	2.0	1.0	.50	1.0	39	631	513	52	49	12	.50
13	.50	1.5	1.0	.50	1.0	46	691	588	51	30	38	1.0
14	.50	1.5	1.0	.50	1.5	69	888	663	50	23	18	1.5
15	1.0	2.0	1.0	.50	1.5	85	821	672	49	21	11	2.0
16	1.0	2.0	.50	.50	1.5	86	642	672	53	21	13	2.0
17	1.0	2.0	.50	.50	1.5	86	552	704	72	35	12	3.0
18	.50	2.0	.50	.50	1.0	75	554	726	71	37	8.1	2.5
19	.50	2.0	.50	.50	1.0	74	444	785	70	35	4.5	2.5
20	.50	2.0	.50	.50	1.0	73	360	722	70	31	3.5	3.0
21	1.0	1.5	.50	.50	1.0	103	325	920	70	26	4.0	4.0
22	1.0	1.5	.50	.50	1.0	116	363	851	70	22	4.0	3.5
23	1.0	.50	.50	.50	1.5	124	324	716	71	11	5.5	3.0
24	1.0	.50	.50	.50	1.5	169	396	767	71	13	18	2.5
25	1.0	.50	.50	.50	2.0	204	519	722	85	15	105	2.5
26	1.0	.50	.50	.50	2.0	213	582	772	194	70	89	2.0
27	1.0	.50	.50	.50	2.0	255	645	688	191	72	76	1.5
28	1.0	.50	.50	.50	7.6	340	778	662	189	66	69	1.5
29	1.5	.50	.00	.50	18	302	889	518	182	53	58	1.5
30	2.0	.50	.00	.50	---	365	909	479	97	39	43	1.5
31	2.5	---	.50	.50	---	485	---	381	---	27	36	---
TOTAL	36.00	40.00	16.50	15.50	58.6	3741	15811	21694	4995	1449	817.8	121.10
MEAN	1.16	1.33	.53	.50	2.02	121	527	700	166	46.7	26.4	4.04
MAX	5.0	2.0	1.0	.50	18	485	909	920	498	80	105	26
MIN	.50	.50	.00	.50	1.0	19	306	381	49	11	3.5	.50
AC-FT	71	79	33	31	116	7420	31360	43030	9910	2870	1620	240

CAL YR 1991 TOTAL 62025.70 MEAN 170 MAX 992 MIN .00 AC-FT 123000
WTR YR 1992 TOTAL 48795.50 MEAN 133 MAX 920 MIN .00 AC-FT 96790

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.

DRAINAGE AREA.--45 mi², approximately.

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, 11 ft³/s, Apr. 8, no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	---	---	---	---	---	7.6	.42	---	.00	.00	.00
2	.00	---	---	---	---	---	7.6	.39	---	.00	.00	.00
3	.00	---	---	---	---	---	7.5	.33	---	.00	.00	.00
4	.00	---	---	---	---	---	7.3	.36	---	.00	.00	.00
5	.00	---	---	---	---	---	7.1	.33	---	.00	.00	.00
6	.00	---	---	---	---	---	7.1	.28	---	.00	.00	.00
7	.00	---	---	---	---	---	8.8	.28	---	.00	.00	.00
8	.00	---	---	---	---	---	11	.36	---	.00	.00	.00
9	.00	---	---	---	---	---	10	.48	---	.00	.00	.00
10	.00	---	---	---	---	---	8.1	1.4	---	.00	.00	.00
11	.00	---	---	---	---	---	6.9	1.5	---	.00	.00	.00
12	.00	---	---	---	---	---	6.0	.76	---	.00	.00	.00
13	.00	---	---	---	---	---	5.1	.45	---	.00	.00	.00
14	.00	---	---	---	---	---	5.2	.33	---	.00	.00	.00
15	.00	---	---	---	---	---	5.3	.26	---	.00	.00	.00
16	.00	---	---	---	---	---	5.3	.20	---	.00	.00	.00
17	.00	---	---	---	---	---	4.2	.12	---	.00	.00	.00
18	.00	---	---	---	---	---	3.3	.09	---	.00	.00	.00
19	.00	---	---	---	---	---	2.6	.07	---	.00	.00	.00
20	.00	---	---	---	---	---	2.4	.16	---	.00	.00	.00
21	.00	---	---	---	---	---	2.0	.51	---	.00	.00	.00
22	.00	---	---	---	---	---	1.8	.42	---	.00	.00	.00
23	.00	---	---	---	---	---	1.6	.36	---	.00	.00	.00
24	.00	---	---	---	---	---	1.4	.76	---	.00	.37	.00
25	.00	---	---	---	---	---	1.2	1.6	---	.00	.24	.00
26	.00	---	---	---	---	---	1.2	8.7	---	.00	.42	.00
27	.00	---	---	---	---	---	1.0	2.6	---	.00	.20	.00
28	.00	---	---	---	---	---	.92	1.4	---	.00	.10	.00
29	.00	---	---	---	---	---	.92	1.4	---	.00	.05	.00
30	.00	---	---	---	---	---	.92	8.3	---	.00	.03	.00
31	.00	---	---	---	---	---	---	7.5	---	.00	.01	---
TOTAL	0.00	---	---	---	---	---	141.36	42.12	---	0.00	1.42	0.00
MEAN	.000	---	---	---	---	---	4.71	1.36	---	.000	.046	.000
MAX	.00	---	---	---	---	---	11	8.7	---	.00	.42	.00
MIN	.00	---	---	---	---	---	.92	.07	---	.00	.00	.00
AC-FT	.00	---	---	---	---	---	280	84	---	.00	2.8	.00

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, 401,570 acre-ft, July 12, elevation, 7,186.13 ft; minimum, 339,630 acre-ft, Apr. 19, elevation, 7,175.15 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 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	399980	398210	396860	394280	393760	394340	384180	351940	396390	400570	400040	398620
2	399920	398150	396620	394280	393760	394400	382290	353640	396860	400450	400040	398390
3	399800	398090	396450	394220	393810	394630	380110	355450	397450	400570	399920	398150
4	399680	398030	396330	394280	393810	395100	378160	356880	398030	400680	399860	396510
5	399510	397980	396210	394280	393760	395340	376060	358380	398860	400740	399860	394400
6	399450	397920	396040	394460	393700	395510	373900	359760	399740	400800	399920	391950
7	399330	397920	395860	394460	393700	395630	371350	361430	400210	400860	399920	389560
8	399210	397920	395690	394340	393700	395740	368590	362930	400450	400980	399980	387530
9	399210	397920	395450	394340	393700	395800	365440	364610	400860	400980	399980	387360
10	399210	397980	395280	394280	393700	395800	362540	366230	400920	401160	399920	387300
11	399150	398150	395570	394280	393700	395800	359710	367240	401160	401330	399920	387190
12	399090	398090	395570	394220	393700	395740	357000	368310	401040	401570	399860	387070
13	398980	398090	395280	394220	393930	395630	354130	369540	400740	401390	399920	387010
14	398920	398270	395100	394220	393930	395630	351550	370840	400450	401330	399920	387010
15	398860	398560	394980	394160	393990	395630	348710	372140	399980	401160	399920	386780
16	398800	398920	394870	394160	394050	395570	345670	373440	399500	400980	399860	385740
17	398680	398920	394810	394160	394050	395570	342380	374970	399090	400570	399800	384700
18	398620	398980	394750	394110	394050	395510	340010	376400	399210	400450	399740	383900
19	398560	398980	394630	394110	394050	394980	339630	378050	399270	400450	399680	383840
20	398500	398920	394520	394110	394050	394340	340220	380280	399330	400570	399560	383780
21	398390	398860	394520	394110	393990	393700	340550	382110	399390	400510	399560	383780
22	398390	398560	394460	394050	394050	393170	341080	383670	399500	400510	399680	383780
23	398330	398210	394460	393990	394110	392700	341190	385050	399620	400450	399620	383670
24	398210	398090	394400	393930	394110	392180	341570	386550	399620	400450	400090	383490
25	398150	397920	394400	393930	394110	391420	342430	388340	399740	400680	400450	383090
26	398090	397740	394340	393930	394160	390430	343560	389500	399920	400800	400210	383030
27	398090	397560	394280	393930	394160	389330	344810	390840	400090	401100	400040	382920
28	397980	397450	394280	393870	394160	388340	346380	392180	400390	401040	399860	382920
29	397920	397270	394280	393870	394280	389480	348060	393520	400620	400740	399620	382800
30	398330	397090	394280	393810	---	386550	350080	394750	400680	400620	399390	382750
31	398330	---	394340	393820	---	385630	---	395800	---	400150	398920	---
MAX	399980	398980	396860	394460	394280	395800	384180	395800	401160	401570	400450	398620
MIN	397920	397090	394280	393810	393700	385630	339630	351940	396390	400150	398920	382750
(†)	7185.59	7185.38	7184.91	7184.82	7184.90	7183.41	7177.08	7185.16	7185.99	7185.90	7185.69	7182.91
(††)	-1650	-1230	-2760	-520	460	-8650	-35550	45720	4880	-530	-1230	-16170

CAL YR 1991 MAX 401570 MIN 313840 (††) +13940
WTR YR 1992 MAX 401570 MIN 339630 (††) -27230

(†) 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.--21 years, 120 ft³/s, 86,940 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, 2,280 ft³/s, Apr. 14; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	71	.00	.00	.00	1280	.00	.00	.00	.00	155
2	.00	.00	71	.00	.00	.00	1360	.00	.00	.00	.00	155
3	.00	.00	70	.00	.00	.00	1410	.00	.00	.00	.00	155
4	.00	.00	70	.00	.00	.00	1400	.00	.00	.00	.00	705
5	.00	.00	70	.00	.00	.00	1400	.00	44	.00	.00	1210
6	.00	.00	71	.00	.00	24	1540	.00	80	.00	.00	1210
7	.00	.00	71	.00	.00	41	1640	.00	80	.00	.00	1210
8	.00	.00	71	.00	.00	41	1900	.00	43	.00	.00	640
9	.00	.00	71	.00	.00	41	2080	.00	.00	.00	.00	.00
10	.00	.00	71	.00	.00	59	2080	.00	.00	.00	.00	.00
11	.00	.00	71	.00	.00	96	2070	.00	89	.00	.00	.00
12	.00	.00	71	.00	.00	109	2070	.00	153	.00	.00	.00
13	.00	.00	71	.00	.00	108	2190	.00	153	.00	.00	.00
14	.00	.00	71	.00	.00	108	2280	.00	153	70	.00	.00
15	.00	.00	71	.00	.00	108	2270	.00	153	122	.00	240
16	.00	.00	71	.00	.00	108	2260	.00	153	121	.00	432
17	.00	.00	70	.00	.00	108	2260	.00	70	51	.00	433
18	.00	.00	101	.00	.00	108	1730	.00	.00	.00	.00	282
19	.00	.00	137	.00	.00	316	593	.00	.00	.00	.00	.00
20	.00	.00	52	.00	.00	446	78	.00	.00	.00	.00	.00
21	.00	26	.00	.00	.00	439	78	29	.00	.00	.00	.00
22	.00	70	.00	.00	.00	439	78	53	.00	.00	.00	45
23	.00	70	.00	.00	.00	431	243	53	.00	.00	.00	74
24	.00	70	.00	.00	.00	418	191	53	.00	.00	.00	74
25	.00	70	.00	.00	.00	574	42	53	.00	.00	92	34
26	.00	71	.00	.00	.00	743	42	26	.00	.00	158	.00
27	.00	70	.00	.00	.00	848	42	.00	.00	69	157	.00
28	.00	70	.00	.00	.00	851	19	.00	.00	141	156	.00
29	.00	71	.00	.00	.00	851	.00	.00	.00	150	156	.00
30	.00	71	.00	.00	.00	936	.00	.00	.00	151	155	.00
31	.00	---	.00	.00	---	1150	---	.00	---	71	155	---
TOTAL	0.00	659.00	1493.00	0.00	0.00	9498.00	34626.00	267.00	1171.00	946.00	1029.00	7054.00
MEAN	.000	22.0	48.2	.000	.000	306	1154	8.61	39.0	30.5	33.2	235
MAX	.00	71	137	.00	.00	1150	2280	53	153	151	158	1210
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	1310	2960	.00	.00	18840	68680	530	2320	1880	2040	14000

CAL YR 1991 TOTAL 55123.20 MEAN 151 MAX 1640 MIN .00 AC-FT 109300
WTR YR 1992 TOTAL 56746.00 MEAN 155 MAX 2280 MIN .00 AC-FT 112600

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, 180,360 acre-ft, May 20, elevation, 6,900.16 ft minimum, 98,240 acre-ft, many days in March.

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

(Based on survey by U.S. Bureau of Reclamation in 1984)

6,860	80,510	6,885	135,900
6,865	89,870	6,895	164,400
6,875	111,000	6,900	179,800

RESERVOIR STORAGE (ACRE-Feet), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140240	130050	126160	116910	106370	98830	116930	170040	178870	177390	139480	109360
2	140000	129970	125960	116500	106060	98640	119540	168930	178710	176470	138640	108880
3	139750	129840	125500	116100	105750	98540	122100	167980	178710	175530	137570	108380
4	139450	129710	125120	115790	105420	98410	124750	167250	178810	174560	136310	108680
5	136390	129560	124700	115430	105110	98350	127330	167120	178930	173600	134930	109900
6	132780	129450	124390	115150	104780	98260	129890	167830	179280	172570	133640	111140
7	132720	129350	124020	114770	104480	98240	132800	168750	179280	171400	132620	112960
8	132670	129250	123640	114390	104210	98240	136210	170040	179470	170070	131520	114230
9	132720	129200	123290	114020	103950	98260	139560	171120	179470	168810	130460	114180
10	132700	129140	122970	113640	103630	98240	142950	172420	179250	167520	129270	114180
11	132650	129120	122770	113290	103370	98290	146490	172420	179090	166270	128040	113520
12	132620	129120	122770	113030	103150	98240	150260	173190	179030	165060	127000	112010
13	132570	128990	122590	112820	102980	98240	154470	174750	178870	163690	126030	110560
14	132490	128840	122370	112410	102690	98240	159620	176630	178580	162610	124620	109700
15	132440	128840	122150	112060	102460	98240	164900	178620	178330	161410	122920	109130
16	132410	128840	122000	111710	102200	98240	169610	179440	178140	160330	121870	109020
17	132100	128840	121680	111390	101900	98240	174000	179250	178110	158820	120350	108860
18	132070	128730	121550	111000	101600	99730	177480	179440	178110	156780	119270	108250
19	132040	128550	121550	110650	101280	100130	178330	179660	178240	155080	118280	106840
20	131970	128380	121360	110310	100980	100600	177420	180360	178430	153570	117100	106170
21	131860	128200	120960	110040	100750	101210	175750	180100	178650	152010	115720	106150
22	131580	128040	120640	109670	100530	101830	174100	179470	178810	150400	113990	106170
23	131450	127790	120250	109360	100340	102460	172670	179560	178900	148690	112620	106220
24	131260	127560	119880	109020	100210	103020	171610	180010	178960	147050	112290	106280
25	131110	127350	119470	108680	99820	103930	170870	179750	179030	145230	112730	106300
26	130900	127120	119080	108380	99580	105220	170500	179440	179060	143750	112660	106220
27	130670	126900	118710	108020	99370	106660	170350	179470	179060	142950	112200	106150
28	130510	126670	118350	107690	99180	108200	170650	179560	179060	142370	111640	105990
29	130360	126560	117960	107330	99020	109790	170960	179530	178740	141610	111040	105910
30	130360	126360	117600	106990	---	111550	170870	179690	178110	141030	110380	105840
31	130250	---	117270	106680	---	114130	---	179180	---	140290	109790	---
MAX	140240	130050	126160	116910	106370	114130	178330	180360	179470	177390	139480	114230
MIN	130250	126360	117270	106680	99020	98240	116930	167120	178110	140290	109790	105840
(†)	6882.85	6881.33	6877.65	6873.07	6869.52	6876.33	6897.13	6899.79	6899.45	6886.64	6874.45	6872.69
(††)	-10230	-3890	-9090	-10590	-7660	15110	56740	8310	-1070	-37820	-30500	-3950

CAL YR 1991 MAX 174530 MIN 100150 (††) +12770
WTR YR 1992 MAX 180360 MIN 98240 (††) -34640

(†) 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, 2.8 mi upstream from Rio Nutrias, 13 mi southwest of Tierra Amarilla, and at mile 76.2.

DRAINAGE AREA.--877 mi², of which about 100 mi² is probably noncontributing.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143	124	222	248	240	248	425	2940	1350	458	485	498
2	148	124	263	253	244	248	486	3110	1070	604	486	498
3	149	124	304	253	244	248	575	2920	858	607	605	498
4	149	122	304	253	244	248	586	2720	776	551	709	573
5	1440	121	328	253	244	248	587	2270	777	556	751	628
6	1640	124	299	257	244	242	716	1870	778	551	772	634
7	62	124	299	257	240	239	802	1640	776	650	712	374
8	63	124	299	253	227	244	912	1520	775	708	642	93
9	63	124	299	253	228	244	1140	1470	845	707	650	92
10	61	124	299	248	228	236	1270	1750	841	725	682	92
11	60	124	258	238	239	236	1280	1760	794	735	718	361
12	58	143	230	219	237	236	1290	1340	793	732	596	797
13	58	159	232	223	240	236	1290	1080	793	739	579	712
14	58	163	229	231	240	236	1290	941	796	758	743	608
15	53	166	228	232	242	236	1290	843	712	760	892	605
16	48	176	237	232	240	236	1280	1250	573	763	780	603
17	148	162	246	233	240	236	1280	1770	444	842	646	603
18	48	163	244	236	242	236	1280	1500	327	960	650	687
19	48	164	244	236	240	295	1270	1440	257	886	663	803
20	49	167	244	236	244	355	1400	1540	228	802	646	466
21	72	180	244	236	246	349	1700	1950	228	808	768	97
22	108	213	244	236	248	348	1760	1910	229	817	947	97
23	121	232	244	238	248	351	1770	1410	232	818	806	97
24	124	232	244	240	245	351	1760	1300	232	882	647	97
25	128	232	244	240	244	351	1760	1530	232	979	543	95
26	124	231	244	240	244	395	1770	1570	233	814	546	90
27	124	232	244	240	244	439	1760	1320	236	639	639	90
28	124	232	244	240	244	439	1870	1280	236	594	627	90
29	124	232	244	240	248	440	2140	1230	367	500	635	90
30	123	236	244	240	---	428	2530	1500	476	493	635	97
31	123	---	244	240	---	432	---	1630	---	487	561	---
TOTAL	5841	5074	7992	7474	6998	9306	39269	52304	17264	21925	20761	11165
MEAN	188	169	258	241	241	300	1309	1687	575	707	670	372
MAX	1640	236	328	257	248	440	2530	3110	1350	979	947	803
MIN	48	121	222	219	227	236	425	843	228	458	485	90
AC-FT	11590	10060	15850	14820	13880	18460	77890	103700	34240	43490	41180	22150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1992, BY WATER YEAR (WY)

	190	180	319	147	161	287	877	1669	841	359	297	287
MEAN	190	180	319	147	161	287	877	1669	841	359	297	287
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1971 - 1992

ANNUAL TOTAL	196693	205373		
ANNUAL MEAN	539	561		
HIGHEST ANNUAL MEAN			469	
LOWEST ANNUAL MEAN			754	1985
HIGHEST DAILY MEAN	3800	May 12	194	1972
LOWEST DAILY MEAN	32	Sep 26	5790	May 21 1973
ANNUAL SEVEN-DAY MINIMUM	39	Sep 23	11	Oct 1 1972
ANNUAL RUNOFF (AC-FT)	390100		16	Oct 14 1974
10 PERCENT EXCEEDS	1450		339900	
50 PERCENT EXCEEDS	232		1110	
90 PERCENT EXCEEDS	86		211	
			124	38

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	123	247	255	234	290	586	3160	1550	392	481	479
2	139	128	219	252	240	272	539	3470	1190	429	474	477
3	148	130	305	249	247	266	652	3320	967	595	470	474
4	146	126	308	262	250	295	656	3090	810	540	629	490
5	875	125	311	252	251	283	653	2670	798	540	679	565
6	2120	126	331	257	250	284	721	2060	797	542	744	568
7	447	129	309	255	251	253	906	1830	791	580	750	541
8	74	127	311	255	236	253	982	1650	782	674	599	134
9	66	126	311	253	237	246	1210	1600	819	676	592	100
10	63	130	312	249	265	233	1390	1860	902	686	603	97
11	61	158	313	247	279	228	1410	2020	810	718	667	95
12	60	158	244	218	255	226	1420	1610	802	726	679	688
13	60	166	235	212	277	226	1430	1160	792	738	540	717
14	59	179	233	227	264	232	1450	1090	787	757	621	557
15	58	197	235	226	258	242	1460	908	751	756	867	574
16	56	243	235	227	250	242	1410	1140	595	759	831	556
17	61	222	250	231	232	241	1380	1760	467	775	583	554
18	146	212	252	232	230	241	1380	1770	330	992	578	566
19	55	188	256	229	230	236	1370	1380	250	969	575	752
20	53	185	255	223	233	330	1400	1680	196	822	557	704
21	52	182	255	234	267	334	1780	1840	189	819	583	142
22	76	211	255	230	395	343	1890	2220	185	824	954	104
23	113	237	255	230	422	342	1900	1600	184	831	904	99
24	121	242	253	232	342	341	1910	1380	183	857	877	97
25	121	244	255	231	287	342	1920	1530	183	1200	667	96
26	122	247	255	231	252	350	1930	1690	181	986	484	91
27	121	250	255	232	257	427	1940	1480	180	614	576	87
28	123	250	255	231	283	442	2020	1300	181	606	574	87
29	124	250	255	231	291	461	2240	1360	189	509	568	87
30	124	249	254	232	---	474	2680	1480	387	491	568	90
31	128	---	255	233	---	535	---	1790	---	504	550	---
TOTAL	6081	5540	8274	7358	7765	9510	42615	56898	17228	21907	19824	10668
MEAN	196	185	267	237	268	307	1420	1835	574	707	639	356
MAX	2120	250	331	262	422	535	2680	3470	1550	1200	954	752
MIN	52	123	219	212	230	226	539	908	180	392	470	87
AC-FT	12060	10990	16410	14590	15400	18860	84530	112900	34170	43450	39320	21160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1992, BY WATER YEAR (WY)

	MEAN	201	186	327	153	180	325	932	1772	885	370	311	291
MAX	625	676	1273	431	495	1050	1985	3741	2409	707	639	724	
(WY)	1987	1987	1976	1987	1987	1985	1985	1984	1983	1992	1992	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1971 - 1992
ANNUAL TOTAL	204137	213668	
ANNUAL MEAN	559	584	496
HIGHEST ANNUAL MEAN			823
LOWEST ANNUAL MEAN			204
HIGHEST DAILY MEAN	4160	May 12	3470
LOWEST DAILY MEAN	40	Sep 30	52
ANNUAL SEVEN-DAY MINIMUM	46	Sep 24	59
INSTANTANEOUS PEAK FLOW			3550
INSTANTANEOUS PEAK STAGE			6.54
INSTANTANEOUS LOW FLOW			40
ANNUAL RUNOFF (AC-FT)	404900	423800	359200
10 PERCENT EXCEEDS	1470	1450	1160
50 PERCENT EXCEEDS	250	308	220
90 PERCENT EXCEEDS	102	125	52

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 operations building at Abiquiu Dam on Rio Chama, 6.6 mi northwest of Abiquiu, and at mile 32.1.

DRAINAGE AREA.--2,146 mi², of which about 100 mi² is probably noncontributing.

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, 202,270 acre-ft, May 31, elevation, 6,223.12 ft; minimum, 135,150 acre-ft, Sept. 30, elevation, 6,205.81 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 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184490	178220	163120	156050	159800	161210	148190	182030	201300	160370	158740	160940
2	184050	177550	163000	156240	159800	161290	149000	185590	200710	159570	158390	160710
3	183640	176870	162470	156460	159880	161480	149550	188860	199460	159910	158050	160520
4	183440	176200	162090	156690	159840	161670	150030	191650	198500	159650	157860	160260
5	184130	175640	161860	156920	159880	161740	150400	194130	196910	159000	157860	160110
6	186970	174930	161250	157290	159800	161780	150810	195380	195380	158620	158430	159910
7	188160	174460	160940	157490	159800	161780	151890	196170	193880	158550	158620	159730
8	187910	173750	160710	157640	159800	161900	153150	196620	192810	158590	158550	158510
9	187260	173240	160490	157750	159800	161820	154730	197160	191160	158550	158470	156990
10	186280	172760	160220	157860	159880	161780	155780	198080	189760	158430	158390	155290
11	185390	172250	160140	157980	159950	161710	156990	198460	188240	158280	158470	153600
12	184530	171590	159730	158090	159950	161630	158280	199080	186770	157940	158660	153190
13	183720	174620	159270	158210	160110	161550	159840	198370	185300	157750	158700	152820
14	183000	174140	158810	158320	160110	161360	161480	197790	183680	157790	158850	152150
15	182270	173630	158260	158430	160110	161210	162700	196290	181870	157750	159270	151590
16	181670	173160	158090	158550	160330	161210	163690	195380	179780	157520	159650	150960
17	181150	172680	157560	158660	160180	161060	164460	195870	177430	157520	159840	150330
18	180700	171900	157030	158770	160180	160870	165300	198040	174890	157830	159840	149660
19	180340	171160	156580	158890	160070	160220	165960	198250	172290	158280	159800	149400
20	180020	170650	156120	159000	160030	159190	166190	198580	170300	158360	159800	149220
21	179540	169710	155600	159120	160030	157830	167380	199580	168240	158660	159800	147820
22	178940	169010	155070	159230	160330	156500	168620	200800	166260	159000	160220	146350
23	178740	168270	154620	159310	160710	155100	169870	201260	164460	159230	160790	144850
24	178580	167540	154430	159340	160910	153380	170920	201220	162770	159420	161320	143360
25	178500	166920	154620	159420	161020	151360	172100	201550	161320	160370	161400	141840
26	178460	166300	154800	159500	161020	149550	173310	202010	160710	161130	161170	140330
27	178420	165570	154990	159800	161020	147860	174380	201890	160680	161020	161210	138820
28	178420	165000	155260	159840	161020	146170	175400	200800	160710	160560	161170	137390
29	178340	164340	155440	159880	161100	145620	177030	200460	160490	159990	161170	136280
30	178460	163690	155670	159880	---	145950	179220	200800	160370	159460	161170	135150
31	178580	---	155930	159800	---	147120	---	202270	---	159190	161100	---
MAX	188160	178220	163120	159880	161100	161900	179220	202270	201300	161130	161400	160940
MIN	178340	163690	154430	156050	159800	145620	148190	182030	160370	157520	157860	135150
(†)	6217.35	6213.54	6211.50	6212.52	6212.86	6209.13	6217.51	6223.12	6212.67	6212.36	6212.86	6205.81
(††)	-6720	-14890	-7760	+3870	+1300	-13980	+32100	+23050	-41900	-1180	+1910	-25950
CAL YR 1991	MAX 256860	MIN 154430	(††)	-560								
WTR YR 1992	MAX 202270	MIN 135150	(††)	-50150								

(†) 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 SE/SE/4 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	480	255	555	175	e275	279	199	1900	1800	471	630	584
2	338	424	555	175	e285	279	193	1940	1810	578	630	590
3	292	424	555	174	e290	276	387	1920	1810	737	687	590
4	275	424	506	176	e285	277	631	1910	1810	809	723	641
5	254	424	450	179	e285	275	631	1870	1780	932	719	650
6	253	424	450	178	285	275	634	1840	1780	798	630	662
7	224	424	450	172	287	273	637	1800	1780	662	505	717
8	207	424	452	169	287	270	637	1800	1770	756	664	831
9	386	424	455	177	287	270	724	1800	1770	786	665	927
10	535	424	455	172	285	270	1070	1810	1780	898	663	925
11	493	424	455	178	283	269	1280	1820	1780	987	664	923
12	460	424	469	182	283	268	1280	1750	1790	904	644	922
13	441	424	500	183	280	293	1290	1750	1800	824	610	920
14	375	424	501	182	283	318	1410	1740	1800	823	611	918
15	375	468	504	182	283	318	1480	1740	1800	819	615	918
16	348	519	504	182	283	318	1480	1760	1810	817	615	917
17	296	551	504	183	283	318	1480	1760	1810	814	617	917
18	252	544	504	185	283	345	1410	1750	1810	810	610	848
19	211	541	504	185	280	589	1430	1750	1600	804	608	833
20	208	538	504	182	279	918	1450	1750	1330	803	605	837
21	263	554	504	182	277	1070	1470	1750	1250	801	642	837
22	335	549	571	186	279	1070	1590	1760	1240	797	675	835
23	228	555	500	206	282	1070	1710	1770	1170	795	675	832
24	186	555	336	235	283	1230	1690	1770	1030	789	675	829
25	164	550	174	230	285	1430	1700	1750	1010	790	669	816
26	121	552	175	233	283	1380	1690	1760	535	781	640	657
27	105	555	173	234	274	1380	1740	1800	176	774	578	655
28	87	555	175	234	279	1380	1780	1820	174	769	576	618
29	75	550	175	259	279	1130	1800	1810	296	767	579	623
30	75	550	175	278	---	205	1850	1800	465	763	578	623
31	75	---	175	277	---	204	---	1800	---	690	584	---
TOTAL	8417	14453	12965	6125	8192	18247	36753	55750	42566	24348	19586	23395
MEAN	272	482	418	198	282	589	1225	1798	1419	785	632	780
MAX	535	555	571	278	290	1430	1850	1940	1810	987	723	927
MIN	75	255	173	169	274	204	193	1740	174	471	505	584
AC-FT	16700	28670	25720	12150	16250	36190	72900	110600	84430	48290	38850	46400
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1992, BY WATER YEAR (WY)

	MEAN	253	315	332	186	254	437	884	1156	1015	628	437	392
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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1971 - 1992	
ANNUAL TOTAL	224078		270797			
ANNUAL MEAN	614		740		525	
HIGHEST ANNUAL MEAN					872	
LOWEST ANNUAL MEAN					213	
HIGHEST DAILY MEAN	1970		May 16		2660	
LOWEST DAILY MEAN	55		Mar 9		10	
ANNUAL SEVEN-DAY MINIMUM	67		Mar 7		21	
ANNUAL RUNOFF (AC-FT)	444500		537100		380100	
10 PERCENT EXCEEDS	1650		1770		1560	
50 PERCENT EXCEEDS	441		577		273	
90 PERCENT EXCEEDS	97		185		49	

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 Vallecitos and Rio Tusas, 3.1 mi north of Ojo Caliente, and at mile 19.9.

DRAINAGE AREA.--419 mi².

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 from bridge on State Highway 554, 2.4 mi south of La Madera, 2.6 mi 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. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	19	26	26	24	36	255	539	154	11	8.0	14
2	17	24	23	22	25	39	268	461	117	9.0	7.6	13
3	17	19	20	22	26	42	290	383	93	11	7.8	12
4	17	19	24	27	24	46	275	341	82	9.6	7.1	11
5	18	22	27	26	24	43	244	264	72	9.9	8.0	11
6	19	24	27	28	23	46	216	228	69	9.1	8.6	10
7	18	24	25	27	22	50	255	215	64	8.9	9.4	9.3
8	16	24	26	24	25	60	301	277	60	9.0	10	7.5
9	16	24	24	24	24	51	349	268	69	8.7	10	7.8
10	16	24	24	24	24	45	403	389	77	8.5	18	7.6
11	16	32	30	25	26	47	456	257	64	8.4	18	7.2
12	16	33	31	26	25	46	547	198	54	8.0	15	7.2
13	15	25	26	25	26	51	650	195	45	7.7	12	7.3
14	16	28	23	23	26	59	773	176	38	7.5	13	7.4
15	16	35	23	22	25	71	754	152	31	7.4	14	7.4
16	16	42	26	23	24	79	613	128	24	7.3	12	7.5
17	16	35	27	24	24	84	590	114	23	7.3	12	7.0
18	16	35	27	23	22	83	630	106	23	7.5	15	7.0
19	16	33	27	23	23	70	487	103	21	7.5	15	7.3
20	17	26	28	22	25	64	355	115	30	7.4	15	7.0
21	17	28	27	23	28	70	320	112	22	7.4	14	7.1
22	17	31	29	22	27	75	349	123	18	8.5	13	7.8
23	17	21	25	22	30	71	354	115	18	7.1	15	8.3
24	17	22	25	22	28	73	410	170	17	7.0	24	8.6
25	18	29	26	22	28	77	493	122	17	7.0	52	7.8
26	18	28	28	23	28	86	527	103	16	7.3	32	7.6
27	18	27	23	22	27	99	525	98	14	7.3	25	7.9
28	19	28	24	23	30	117	586	105	13	7.2	20	7.7
29	20	29	25	23	32	117	612	95	13	7.4	17	7.4
30	20	25	26	24	---	128	584	207	12	8.3	15	7.7
31	20	---	28	24	---	197	---	170	---	8.1	14	---
TOTAL	533	815	800	736	745	2222	13471	6329	1370	253.3	476.5	253.4
MEAN	17.2	27.2	25.8	23.7	25.7	71.7	449	204	45.7	8.17	15.4	8.45
MAX	20	42	31	28	32	197	773	539	154	11	52	14
MIN	15	19	20	22	22	36	216	95	12	7.0	7.1	7.0
AC-FT	1060	1620	1590	1460	1480	4410	26720	12550	2720	502	945	503

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 1992, BY WATER YEAR (WY)

MEAN	14.8	17.5	17.6	18.3	22.7	54.1	286	313	49.2	9.93	14.2	10.7
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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1933 - 1992	
ANNUAL TOTAL	30164.4		28004.2			
ANNUAL MEAN	82.6		76.5		69.2	
HIGHEST ANNUAL MEAN					205	
LOWEST ANNUAL MEAN					13.4	
HIGHEST DAILY MEAN	808		773		2180	
LOWEST DAILY MEAN	8.2		7.0		.60	
ANNUAL SEVEN-DAY MINIMUM	8.6		7.2		1.1	
INSTANTANEOUS PEAK FLOW			907		3140	
INSTANTANEOUS PEAK STAGE			5.51		7.25	
INSTANTANEOUS LOW FLOW			5.6		.20	
ANNUAL RUNOFF (AC-FT)	59830		55550		50100	
10 PERCENT EXCEEDS	265		255		162	
50 PERCENT EXCEEDS	27		24		17	
90 PERCENT EXCEEDS	16		7.8		5.3	

08290000 RIO CHAMA NEAR CHAMITA, NM

LOCATION.--Lat 36°04'26", long 106°06'40", in NE¼NE¼ sec.8, T.21 N., R.8 E., Rio Arriba County, Hydrologic Unit 13020102, in San Juan Pueblo Grant, near left downstream corner of bridge on U.S. Highway 285, 0.5 mi west of Chamita, 2.5 mi northwest of San Juan Pueblo, and at mile 2.8.

DRAINAGE AREA.--3,144 mi², of which about 100 mi² is probably noncontributing.

PERIOD OF RECORD.--October 1912 to current year. Monthly discharge only for some periods, published in WSP 1312. Published as "Chama River near Chamita" prior to 1928, and "Chama River at Chamita" 1929-30.

REVISED RECORDS.--WSP 1512: 1913-15, 1934, 1936. WSP 1632: 1929(M). WSP 1732: 1931(M). WSP 1923: Drainage area.

GAGE.--Water-stage recorder. Concrete control since Jan. 1, 1964. Datum of gage is 5,653.61 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 4, 1933, at railroad bridge 2.3 mi downstream at different datums. Oct. 4, 1933 to Mar. 1, 1942, at site 50 ft downstream at datum 0.22 ft higher. Mar. 2, 1942 to Dec. 31, 1963, at site 200 ft downstream, present datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 27,600 acres. Chamita ditch (station 08289500), on left bank, and Hernandez ditch (station 08289800), on right bank, bypass gage for irrigation of several hundred acres downstream from station. Flow regulated by El Vado Reservoir (station 08285000) 74.9 mi upstream since January 1935 and Abiquiu Reservoir (station 08286900), 29.3 mi upstream since February 1963. Since May 1971 flow affected by release of transmountain water from Heron Reservoir (station 08284510) 83.0 mi upstream. National Weather Service gage-height telemeter and U.S. Army Corps of Engineers telemeter at station. No flow at times some years.

AVERAGE DISCHARGE.--58 years (water years 1913-70), 541 ft³/s, 392,000 acre-ft/yr, prior to release of transmountain water.

EXTREMES OUTSIDE PERIOD OF RECORD.--The floods of Sept. 29, 1904, and Oct. 4 or 5, 1911, probably exceeded 15,000 ft³/s. Another major flood occurred in 1884, from newspaper accounts.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	428	140	544	e200	262	290	525	2420	1940	259	588	527
2	392	402	523	e200	265	295	511	2350	1900	279	573	519
3	260	428	479	e200	286	300	594	2250	1830	506	558	512
4	250	460	537	e202	279	301	1020	2230	1790	533	676	529
5	230	472	480	206	287	297	985	2090	1770	764	694	576
6	223	462	450	202	284	291	957	1890	1730	756	831	570
7	198	439	442	200	282	294	993	1850	1720	431	392	574
8	167	446	452	e200	295	302	1070	1950	1690	514	609	599
9	218	455	458	e200	289	296	1150	1990	1690	603	635	682
10	498	460	457	e200	287	293	1470	2170	1710	642	644	829
11	497	482	456	e200	289	297	1980	1980	1690	825	651	834
12	454	468	449	e200	289	305	2060	1790	1670	801	683	831
13	454	450	472	e204	288	308	2230	1780	1670	681	643	841
14	357	451	461	e205	285	342	2440	1760	1640	686	572	856
15	345	469	455	e208	289	340	2610	1730	1630	681	561	875
16	348	597	461	e210	289	357	2380	1700	1610	686	559	844
17	304	557	468	e210	285	381	2320	1680	1600	696	559	840
18	274	522	469	e210	286	406	2340	1650	1590	697	607	831
19	222	538	465	e207	291	432	2130	1640	1510	699	573	818
20	211	564	488	e207	292	671	1950	1640	1240	720	559	765
21	211	580	480	e207	284	854	1910	1660	1110	750	567	746
22	323	571	521	211	281	870	1980	1730	1080	734	618	745
23	271	562	481	206	286	860	2160	1720	1050	754	636	749
24	179	533	454	240	280	928	2190	1760	896	767	749	754
25	158	549	e205	235	292	1230	2300	1740	883	880	692	754
26	142	544	e205	231	283	1270	2340	1720	440	774	690	737
27	122	559	e205	224	291	1300	2310	1750	e185	668	581	740
28	120	552	e207	230	291	1320	2450	1780	e175	769	552	724
29	88	549	e205	227	291	1340	2480	1770	e200	784	544	600
30	102	556	e205	264	---	540	2420	1930	226	705	518	596
31	115	---	e199	250	---	482	---	1970	---	704	529	---
TOTAL	8161	14817	12833	6596	8278	17792	54255	58070	39865	20748	18843	21397
MEAN	263	494	414	213	285	574	1808	1873	1329	669	608	713
MAX	498	597	544	264	295	1340	2610	2420	1940	880	831	875
MIN	88	140	199	200	262	290	511	1640	175	259	392	512
AC-FT	16190	29390	25450	13080	16420	35290	107600	115200	79070	41150	37380	42440
e	Estimated											

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1992, BY WATER YEAR (WY)

	MEAN	260	336	360	221	288	478	1128	1479	994	586	415	376
MAX	1273	1224	1291	876	1677	1705	2534	2741	2346	1477	1020	1164	
(WY)	1988	1980	1976	1986	1987	1987	1985	1983	1984	1983	1973	1987	
MIN	37.3	60.6	77.3	63.5	66.6	85.1	120	204	117	170	95.5	83.1	
(WY)	1979	1990	1975	1975	1978	1977	1977	1972	1976	1972	1979	1974	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR				FOR 1992 WATER YEAR				WATER YEARS 1971 - 1992			
ANNUAL TOTAL	248840				281655							
ANNUAL MEAN	682				770				577			
HIGHEST ANNUAL MEAN									923			
LOWEST ANNUAL MEAN									234			
HIGHEST DAILY MEAN	2560				2610				3570			
LOWEST DAILY MEAN	88				88				1.2			
ANNUAL SEVEN-DAY MINIMUM	98				118				1.7			
INSTANTANEOUS PEAK FLOW					2850				15000			
INSTANTANEOUS PEAK STAGE					6.27				10.45			
INSTANTANEOUS LOW FLOW					63				Oct 29			
ANNUAL RUNOFF (AC-FT)	493600				558700				418300			
10 PERCENT EXCEEDS	1680				1800				1670			
50 PERCENT EXCEEDS	454				546				286			
90 PERCENT EXCEEDS	138				207				71			

RIO GRANDE BASIN

08290000 RIO CHAMA NEAR CHAMITA, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREP-TOCOCCHI, 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)
NOV 19...	1000	550	362	8.1	5.5	5.0	620	11.6	--	--	150	47
MAR 30...	1245	475	327	8.2	15.0	11.5	618	8.7	K62	130	--	--
JUN 24...	1030	962	301	7.5	24.0	14.0	621	8.8	170	480	120	34
SEP 01...	1400	554	318	8.2	23.5	19.5	617	7.7	K46	110	130	47
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)	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)	
NOV 19...	46	8.3	21	0.7	2.2	124	0	102	90	5.4	0.20	
MAR 30...	--	--	--	--	--	116	0	95	--	--	--	
JUN 24...	35	7.0	13	0.5	1.9	100	0	82	60	3.0	<0.10	
SEP 01...	41	7.0	14	0.5	1.9	103	0	84	67	5.2	0.20	
DATE	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, DIS-SOLVED (UG/L AS Cu) (01040)	IRON, DIS-SOLVED (UG/L AS Fe) (01046)	
NOV 19...	14	248	2	2	30	<1	<1.0	3	<1	3	19	
MAR 30...	--	--	--	--	--	--	--	--	--	--	--	
JUN 24...	13	182	--	--	20	--	--	--	--	--	37	
SEP 01...	14	201	--	--	10	--	--	--	--	--	29	
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, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	
NOV 19...	12	<1	<0.10	<0.1	<1	<1	70	4	1810	2680	5	
MAR 30...	--	--	--	--	--	--	--	--	649	832	43	
JUN 24...	--	--	--	--	--	--	--	--	78	203	65	
SEP 01...	--	--	--	--	--	--	--	--	201	301	37	

08290000 RIO CHAMA NEAR CHAMITA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	CHLOR-DYRIFOS 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 19...	1000	--	--	--	<0.1	--	<0.10	<0.010	<0.010	<0.1	<0.010
MAR 30...	1245	--	--	--	--	--	--	--	--	--	--
JUN 24...	1030	--	--	--	--	--	--	--	--	--	--
SEP 01...	1400	<0.01	<0.01	<0.01	<0.1	<0.01	<0.10	<0.010	<0.010	<0.1	<0.010

DATE	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDRIN ENDO- SULFAN TOTAL (UG/L) (39388)	WATER UNFLTRD REC (UG/L) (39390)	ETHION, TOTAL (UG/L) (39398)	TOX- APHENE, TOTAL (UG/L) (39400)	HEPTA- HEPTA- CHLOR, TOTAL (UG/L) (39410)	METH- CHLOR EPOXIDE TOTAL (UG/L) (39420)	OXY- CHLOR, TOTAL (UG/L) (39480)	PCB, TOTAL (UG/L) (39516)
NOV 19...	<0.010	<0.010	<0.010	<0.010	<0.010	--	<1	<0.010	<0.010	<0.01	<0.1
MAR 30...	--	--	--	--	--	--	--	--	--	--	--
JUN 24...	--	--	--	--	--	--	--	--	--	--	--
SEP 01...	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<1	<0.010	<0.010	<0.01	<0.1

[illegible]

RIO GRANDE BASIN

08291000 SANTA CRUZ RIVER AT CUNDIYO, NM

LOCATION.--Lat 35°57'53", long 105°54'14", in SE¼NW¼ 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, 1.8 mi upstream from Santa Cruz Dam, and at mile 11.9.

DRAINAGE AREA.--86 mi², 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	21	16	e10	e11	20	54	177	165	53	17	15
2	33	21	e12	e9.0	e11	23	54	175	156	49	17	12
3	32	17	e11	e8.2	e11	25	59	178	152	47	15	11
4	31	20	e10	e8.8	e11	25	61	186	155	46	21	11
5	30	21	e11	e9.7	e12	22	56	177	162	43	16	11
6	29	20	e12	e10	e12	24	56	164	166	40	17	9.4
7	28	20	e13	e10	e12	36	61	156	177	38	17	8.6
8	27	19	e14	e10	e12	46	74	152	175	42	15	8.9
9	27	19	e15	e9.5	e13	35	84	153	166	43	13	9.5
10	26	20	e15	e8.2	e13	32	121	170	157	39	15	9.5
11	25	23	e14	e8.2	e13	31	137	157	150	39	17	9.6
12	24	20	e13	e9.8	e13	30	143	153	145	41	20	9.2
13	24	18	e13	e12	e12	31	191	152	137	42	19	8.7
14	24	22	e12	e10	e12	37	199	153	132	35	18	8.3
15	23	22	e11	e9.0	e11	47	187	158	127	31	15	15
16	23	20	e11	e8.0	e11	52	150	160	122	29	14	12
17	22	21	e11	e8.0	e11	51	129	166	113	30	14	11
18	22	21	e12	e8.0	12	48	131	168	102	27	13	11
19	21	20	e13	e7.9	17	40	100	168	101	26	12	17
20	20	16	e13	e8.0	16	35	81	192	100	23	11	15
21	21	21	e13	e8.1	13	34	71	194	98	25	12	13
22	21	21	e13	e8.2	13	36	64	196	91	24	13	11
23	21	14	e13	e8.3	14	35	63	194	86	24	14	11
24	21	18	e13	e8.5	14	33	70	194	80	33	29	10
25	20	19	e13	e9.3	15	33	85	190	79	26	28	11
26	20	21	e12	e9.7	14	35	109	176	71	29	21	9.7
27	19	20	e12	e10	16	41	127	170	66	23	17	9.9
28	20	20	e12	e10	16	45	149	162	65	20	14	8.7
29	17	19	e12	e10	17	43	176	161	60	20	13	9.6
30	20	18	e12	e11	---	43	179	173	57	18	12	9.7
31	18	---	e11	e11	---	50	---	163	---	17	13	---
TOTAL	743	592	388	286.4	378	1118	3221	5288	3613	1022	502	326.3
MEAN	24.0	19.7	12.5	9.24	13.0	36.1	107	171	120	33.0	16.2	10.9
MAX	34	23	16	12	17	52	199	196	177	53	29	17
MIN	17	14	10	7.9	11	20	54	152	57	17	11	8.3
AC-FT	1470	1170	770	568	750	2220	6390	10490	7170	2030	996	647
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 1992, BY WATER YEAR (WY)

	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944
MEAN	15.7	12.1	10.3	9.32	9.87	19.1	51.9	97.2	74.5	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1933 - 1992
ANNUAL TOTAL	18964.6	17477.7	
ANNUAL MEAN	52.0	47.8	31.2
HIGHEST ANNUAL MEAN			75.2
LOWEST ANNUAL MEAN			8.93
HIGHEST DAILY MEAN	606	May 22	623
LOWEST DAILY MEAN	9.6	Jan 22	1.1
ANNUAL SEVEN-DAY MINIMUM	9.9	Jan 18	2.2
INSTANTANEOUS PEAK FLOW			2420
INSTANTANEOUS PEAK STAGE			7.80
INSTANTANEOUS LOW FLOW			.19
ANNUAL RUNOFF (AC-FT)	37620	34670	22600
10 PERCENT EXCEEDS	107	157	76
50 PERCENT EXCEEDS	28	21	14
90 PERCENT EXCEEDS	11	10	7.5

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 November 1991 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	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)	
NOV 18...	1415	1400	360	8.0	8.5	7.0	610	10.8	140	25	43	
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)	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)	
NOV 18...	7.9	23	0.8	2.8	140	0	115	67	7.1	0.40		
DATE		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, DIS-SOLVED (UG/L AS Cu) (01040)	IRON, DIS-SOLVED (UG/L AS Fe) (01046)
NOV 18...	18	238	<1	2	40	<1	<1.0	1	<1	1	9	
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, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 18...	2	<1	<0.10	<0.10	<0.1	<1	<1	30	3	111	420	5
DATE	TIME	PER-THANE TOTAL (UG/L) (39034)	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)	DDT, TOTAL (UG/L) (39370)			
NOV 18...	1415	<0.1	<0.10	<0.010	<0.010	<0.1	<0.010	<0.010	<0.010			
DATE		DI-ELDRIN TOTAL (UG/L) (39380)	ENDO-SULFAN TOTAL (UG/L) (39388)	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)	METH-OXY-CHLOR, TOTAL (UG/L) (39480)	PCB, TOTAL (UG/L) (39516)	MIREX, TOTAL (UG/L) (39755)		
NOV 18...	<0.010	<0.010	<0.010	<1	<0.010	<0.010	<0.010	<0.01	<0.1	<0.01		

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.

DRAINAGE AREA.--34.5 mi².

PERIOD OF RECORD.--February 1936 to September 1941, August 1949 to October 1950, October 1950 to September 1961 (annual maximum only), April 1984 to current year.

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 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	4.6	4.3	e3.2	e3.2	4.2	6.6	8.5	3.8	2.3	2.7	2.0
2	4.7	4.0	e3.0	e3.1	e3.3	4.3	5.4	10	3.9	2.3	2.3	1.9
3	2.9	3.6	e2.6	e2.8	e3.3	4.8	4.3	11	3.9	2.4	2.3	1.9
4	2.0	4.5	e2.6	e2.9	e3.3	4.8	2.4	12	3.9	2.3	2.8	1.8
5	2.0	3.9	e2.6	e3.2	e3.3	4.5	2.4	11	3.9	2.3	3.7	1.8
6	2.0	3.8	e2.7	e3.4	e3.3	4.2	2.3	9.5	3.9	2.1	3.1	1.8
7	2.0	3.2	e2.7	e3.3	e3.3	4.5	2.3	9.0	3.9	2.1	3.0	1.6
8	1.9	2.3	e2.9	e3.4	e3.3	4.6	2.3	9.5	4.0	2.1	2.7	1.9
9	1.9	2.1	e2.9	e3.5	e3.3	4.4	2.3	9.1	4.1	2.4	2.6	1.9
10	1.8	2.0	e3.0	e3.6	e3.4	4.3	2.6	9.7	4.0	2.3	2.6	1.9
11	1.8	2.4	e3.3	e3.9	e3.4	4.3	3.0	8.8	4.0	2.3	3.8	2.0
12	1.7	2.4	e3.3	e4.0	e3.4	4.2	4.1	8.4	3.6	2.3	2.6	1.9
13	1.2	2.2	e3.4	e3.5	3.5	4.2	3.9	8.1	3.4	2.3	1.9	1.9
14	1.2	2.4	e3.4	e3.0	3.7	4.4	3.5	7.7	3.3	2.2	1.9	2.0
15	1.2	3.2	e3.1	e2.6	3.5	4.5	3.7	6.5	3.2	2.1	2.0	2.3
16	1.4	3.8	e2.7	e2.6	3.6	4.5	3.6	5.3	3.1	2.2	1.9	2.6
17	1.2	3.1	e2.8	e2.6	3.7	4.5	3.5	5.3	3.1	2.4	1.7	2.1
18	1.5	4.1	e3.0	e2.6	3.5	2.3	5.2	5.8	3.3	2.4	1.4	2.1
19	1.4	5.0	e2.9	e2.6	4.1	2.8	6.3	4.2	3.0	2.3	1.4	2.3
20	1.4	4.4	e2.8	e2.6	4.6	4.4	6.8	4.2	2.9	2.3	1.5	2.2
21	1.4	5.0	e2.8	e2.7	4.0	4.5	7.0	4.1	3.4	2.3	1.4	2.1
22	1.4	4.8	e2.8	e2.8	3.8	4.4	7.3	6.4	2.8	2.2	1.4	2.0
23	1.4	4.5	e3.1	e2.9	3.9	4.3	7.5	6.8	2.6	2.5	1.6	2.0
24	1.4	2.8	e3.3	e3.0	3.7	4.2	7.7	5.6	2.7	3.9	5.6	2.0
25	1.2	3.9	e3.5	e3.1	3.8	4.3	7.9	4.3	2.9	2.5	2.7	1.9
26	1.2	4.6	e3.6	e3.2	3.7	4.4	5.9	3.9	3.0	2.5	2.7	1.9
27	1.2	4.2	e3.7	e3.2	4.0	4.4	5.2	4.1	2.8	2.5	2.0	1.9
28	2.8	4.3	e3.7	e3.2	4.1	4.5	5.3	3.9	2.7	2.4	1.9	1.9
29	3.6	4.3	e3.7	e3.2	4.0	4.7	5.6	3.9	2.7	2.4	1.8	1.9
30	3.8	4.4	e3.6	e3.2	---	5.0	5.4	5.2	2.5	2.3	1.8	1.9
31	3.9	---	e3.4	e3.2	---	6.4	---	3.9	---	2.4	1.8	---
TOTAL	64.1	109.8	97.2	96.1	105.0	135.8	141.3	215.7	100.3	73.3	72.6	59.4
MEAN	2.07	3.66	3.14	3.10	3.62	4.38	4.71	6.96	3.34	2.36	2.34	1.98
MAX	5.6	5.0	4.3	4.0	4.6	6.4	7.9	12	4.1	3.9	5.6	2.6
MIN	1.2	2.0	2.6	2.6	3.2	2.3	2.3	3.9	2.5	2.1	1.4	1.6
AC-FT	127	218	193	191	208	269	280	428	199	145	144	118

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1992, BY WATER YEAR (WY)

MEAN	3.50	3.68	3.51	3.36	3.80	4.35	5.91	7.93	4.44	3.76	3.63	3.83
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	2.89	1.85	3.25	2.98	1.58	2.36	1.74	1.98
(WY)	1991	1990	1991	1991	1991	1990	1989	1989	1990	1992	1984	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1937 - 1992

ANNUAL TOTAL	1441.9	1270.6	
ANNUAL MEAN	3.95	3.47	4.36
HIGHEST ANNUAL MEAN			7.74
LOWEST ANNUAL MEAN			2.91
HIGHEST DAILY MEAN	17 Jul 18	12 May 4	42 Sep 22 1941
LOWEST DAILY MEAN	1.2 Jan 6	1.2 Oct 13	.00 Aug 8 1984
ANNUAL SEVEN-DAY MINIMUM	1.3 Jan 5	1.3 Oct 13	.11 Nov 9 1989
INSTANTANEOUS PEAK FLOW		29 Aug 11	970 Sep 22 1941
INSTANTANEOUS PEAK STAGE		2.24 Aug 11	5.65 Sep 22 1941
INSTANTANEOUS LOW FLOW		.58 Mar 18	.00 Aug 13 1984
ANNUAL RUNOFF (AC-FT)	2860	2520	3160
10 PERCENT EXCEEDS	6.4	5.3	6.0
50 PERCENT EXCEEDS	3.7	3.2	3.7
90 PERCENT EXCEEDS	1.8	1.9	2.2

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, many days; minimum, 1,300 acre-ft, Sept. 20, elevation 6,812.38 ft.

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

(Based on survey by 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 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2030	1960	1910	1920	1900	1870	1960	2030	2030	2030	1930	1380
2	2020	1960	1900	1920	1900	1880	1950	2030	2030	2030	1930	1390
3	2020	1960	1890	1920	1900	1880	1950	2040	2030	2030	1930	1410
4	2020	1960	1880	1920	1900	1880	1940	2040	2030	2030	1930	1420
5	2020	1960	1880	1920	1890	1890	1940	2030	2030	2030	1930	1420
6	2020	1960	1880	1920	1890	1890	1940	2040	2030	2030	1920	1420
7	2020	1960	1880	1920	1890	1890	1940	2030	2030	2030	1900	1430
8	2020	1960	1870	1920	1890	1900	1950	2030	2030	2030	1890	1440
9	2020	1960	1860	1920	1890	1900	1960	2030	2030	2030	1860	1450
10	2020	1950	1870	1920	1890	1910	1980	2030	2040	2020	1830	1460
11	2020	1960	1870	1920	1890	1920	2000	2030	2040	2020	1810	1470
12	2020	1960	1880	1920	1890	1920	2010	2030	2040	2030	1780	1470
13	2020	1960	1880	1920	1880	1930	2020	2030	2040	2030	1750	1460
14	2020	1960	1880	1920	1880	1930	2020	2030	2040	2020	1720	1440
15	2020	1960	1880	1920	1880	1940	2020	2030	2030	2020	1700	1420
16	2020	1960	1890	1920	1880	1960	2030	2030	2030	2020	1670	1390
17	2020	1960	1890	1920	1880	1960	2030	2030	2030	2000	1650	1360
18	2020	1960	1890	1920	1870	1960	2030	2040	2030	1980	1620	1330
19	2020	1950	1900	1920	1870	1970	2030	2040	2030	1960	1600	1310
20	2020	1950	1900	1920	1870	1970	2030	2040	2040	1910	1580	1300
21	2020	1950	1900	1910	1870	1970	2030	2040	2030	1870	1550	1310
22	2020	1940	1910	1910	1870	1970	2030	2040	2030	1840	1540	1330
23	2010	1940	1910	1910	1870	1970	2030	2040	2030	1810	1520	1300
24	2010	1930	1910	1910	1870	1970	2030	2040	2030	1820	1500	1350
25	2000	1930	1920	1910	1870	1960	2030	2040	2030	1830	1480	1360
26	2000	1920	1920	1910	1870	1960	2030	2040	2030	1850	1460	1370
27	1990	1920	1920	1900	1870	1960	2030	2040	2030	1870	1440	1380
28	1990	1920	1920	1900	1870	1960	2030	2030	2030	1890	1420	1400
29	1980	1910	1920	1900	1870	1960	2030	2040	2030	1910	1400	1410
30	1970	1910	1920	1900	---	1960	2030	2040	2030	1920	1370	1410
31	1970	---	1920	1900	---	1960	---	2040	---	1920	1360	---
MAX	2030	1960	1920	1920	1900	1970	2030	2040	2040	2030	1930	1470
MIN	1970	1910	1860	1900	1870	1870	1940	2030	2030	1810	1360	1300
(†)	6825.63	6824.62	6824.76	6824.46	6823.96	6825.50	6826.79	6826.81	6826.73	6824.90	6813.67	6814.82
(††)	-60	-60	+10	-20	-30	90	70	10	-10	-110	-560	50

CAL YR 1991 MAX 2050 MIN 1620 (††) + 70
WTR YR 1992 MAX 2040 MIN 1300 (††) -620

(†) 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 NE¼SW¼ 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, 2.6 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.--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, 93 ft³/s, May 24; minimum daily, 0.80 ft³/s, Sept. 8-10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	8.1	8.1	5.3	5.3	4.1	13	63	69	40	9.5	1.0
2	14	8.1	8.1	5.3	5.3	4.1	14	63	74	38	9.5	1.0
3	13	8.1	8.1	5.3	5.3	4.1	14	67	69	35	9.5	1.0
4	12	7.5	8.1	5.3	5.3	4.1	14	72	71	35	9.5	1.9
5	12	7.1	8.1	5.3	5.3	4.1	14	71	77	32	9.5	4.6
6	12	7.1	8.1	5.3	5.3	4.1	14	74	74	29	8.3	4.6
7	12	7.1	8.1	5.3	5.3	4.1	14	71	83	28	19	2.0
8	11	7.1	8.1	5.3	5.3	4.2	14	77	79	27	19	.8
9	10	7.1	3.1	5.3	5.3	4.3	14	71	74	29	20	.8
10	11	7.1	4.0	5.3	5.3	4.3	16	67	74	33	23	.8
11	10	7.1	4.0	5.3	5.3	4.3	20	67	72	33	23	2.5
12	8.7	8.8	4.6	5.3	5.3	4.3	20	74	74	29	23	6.7
13	8.2	9.5	4.6	5.3	5.3	4.3	35	71	72	32	23	6.7
14	10	9.5	4.6	5.3	5.3	4.2	47	67	72	24	21	17
15	9.1	9.5	4.6	5.3	5.3	4.2	47	67	70	21	20	21
16	8.2	9.5	4.6	5.3	5.3	5.9	13	71	69	17	20	21
17	8.7	9.5	4.6	5.3	5.3	7.0	50	70	65	25	20	21
18	7.8	8.5	4.6	5.3	5.3	8.4	48	79	63	30	20	21
19	7.3	8.1	4.6	5.3	5.3	8.3	42	79	63	30	20	21
20	8.7	8.1	4.6	5.3	5.3	8.4	39	83	63	30	20	12
21	8.2	8.1	4.6	5.3	5.3	8.4	39	85	65	30	20	.90
22	12	8.1	4.6	5.3	5.3	8.4	32	83	63	30	20	.90
23	10	8.1	4.6	5.3	5.0	10	32	83	63	23	20	.90
24	9.7	8.1	4.6	5.3	4.1	11	31	93	60	11	20	.90
25	9.3	8.1	4.8	5.3	4.1	11	35	91	63	5.0	20	.90
26	8.8	8.1	5.3	5.3	4.1	11	38	83	56	5.0	20	.90
27	8.4	8.1	5.3	5.3	4.1	11	48	85	51	3.3	20	.90
28	8.0	8.1	5.3	5.2	4.1	11	54	74	48	2.5	20	.90
29	7.8	8.1	5.3	5.2	4.1	11	58	65	45	4.0	20	.90
30	10	8.1	5.3	5.2	---	11	61	77	44	4.6	20	.90
31	7.0	---	5.3	5.2	---	11	---	74	---	8.1	15	---
TOTAL	307.9	243.5	172.3	163.9	146.2	215.6	930	2317	1985	723.5	561.8	177.40
MEAN	9.93	8.12	5.56	5.29	5.04	6.95	31.0	74.7	66.2	23.3	18.1	5.91
MAX	15	9.5	8.1	5.3	5.3	11	61	93	83	40	23	21
MIN	7.0	7.1	3.1	5.2	4.1	4.1	13	63	44	2.5	8.3	.80
AC-FT	611	483	342	325	290	428	1840	4600	3940	1440	1110	352

CAL YR 1991 TOTAL 6283.56 MEAN 17.2 MAX 72 MIN .58 AC-FT 12460
WTR YR 1992 TOTAL 7944.10 MEAN 21.7 MAX 93 MIN .80 AC-FT 15760

RIO GRANDE BASIN

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, NM

(National stream-quality accounting network, surveillance network, and radiochemical network station)

LOCATION.--Lat 35°52'29", long 106°08'30", in SW¼SW¼ sec.18, T.19 N., R.8 E., Santa Fe County, Hydrologic Unit 13020101, on San Ildefonso Pueblo Grant, near right bank on downstream end of pier of former railway bridge, 400 ft downstream from bridge on State Highway 502, 1.8 mi southwest of San Ildefonso Pueblo, 2.5 mi downstream from Pojoaque River, 6.8 mi west of Pojoaque, and at mile 1.614.2.

DRAINAGE AREA.--14,300 mi², approximately, including 2,940 mi² in closed basin in San Luis Valley, CO.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1895 to December 1905, June 1909 to current year. Monthly discharge only for some periods, published in WSP 1312. In early reports this record was published as "at Water Tank," as "at Rio Grande," and as "near Buckman."

REVISED RECORDS.--WSP 828: Drainage area. WSP 1512: 1895-99, 1904-6, 1911-12, 1914, 1931(M), 1935. WSP 1712: 1904(M). WDR-NM-90: 1989.

GAGE.--Water-stage recorder. Datum of gage is 5,488.48 ft above National Geodetic Vertical Datum of 1929. See WSP 1312, 1732, or 1923 for history of changes prior to June 1, 1910.

REMARKS.--Water-discharge records good. Considerable regulation by Heron Reservoir (station 08284510), El Vado Reservoir (station 08285000) and Abiquiu Reservoir (station 08286900) on Rio Chama, which can contribute a major portion of the total flow. Flow affected by release of transmountain water from Heron Reservoir since May 1971. Diversions upstream from station for irrigation of about 620,000 acres in Colorado and 75,000 acres in New Mexico. Gage height telemeter and U.S. Army Corps of Engineers satellite telemeter at station.

AVERAGE DISCHARGE.--71 years, (water years 1895-1914, 1916, 1920-1970), 1,530 ft³/s, 1,108,000 acre-ft/yr. Prior to release of transmountain water.

EXTREMES OUTSIDE PERIOD OF RECORD.--The 1920 flood is greatest since at least 1884 and probably since 1741; information from W. H. Yeo's file on floods.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040	483	1370	906	934	1130	2070	4980	3910	1030	1110	1060
2	938	743	1330	847	970	1110	2050	5020	3810	989	971	963
3	759	835	1110	742	988	1110	2090	4780	3700	1120	889	903
4	727	869	1160	878	971	1180	2620	4740	3600	1200	1000	865
5	727	940	1080	922	974	1130	2710	4380	3570	1410	1030	921
6	690	992	1100	923	965	1120	2770	3920	3580	1420	1150	895
7	662	1010	1130	927	951	1160	2900	3690	3600	1060	957	891
8	624	1030	1130	877	975	1190	3060	3690	3630	1040	991	885
9	617	1050	1130	856	995	1180	3200	3760	3650	1150	974	993
10	932	1170	1130	835	994	1160	3550	4050	3670	1170	915	1170
11	988	1240	1190	833	1010	1170	4170	3860	3710	1450	950	1280
12	910	1340	1270	906	1030	1170	4660	3490	3720	1480	1240	1290
13	900	1210	1270	900	1070	1170	5340	3450	3600	1330	1120	1230
14	798	1290	1220	867	1080	1240	5610	3360	3480	1270	1030	1230
15	784	1410	1170	842	1110	1290	5840	3220	3440	1210	999	1300
16	776	1760	1170	796	1080	1340	5750	3160	3160	1190	953	1310
17	710	1530	1200	831	1050	1440	5450	3150	3020	1210	937	1290
18	648	1410	1230	879	1020	1580	5330	3080	2830	1200	995	1280
19	578	1410	1260	854	1000	1630	4930	2970	2720	1170	957	1320
20	545	1400	1280	803	1020	2000	4370	3030	2480	1130	920	1280
21	570	1390	1260	825	1060	2370	3950	3230	2370	1200	872	1250
22	695	1400	1330	823	1100	2470	3710	3440	2310	1190	883	1250
23	726	1370	1290	807	1130	2540	3660	3470	2280	1250	878	1270
24	583	1210	1220	856	1110	2720	3620	3650	2330	1300	1100	1310
25	556	1150	916	877	1070	3150	3760	3700	2430	1280	1160	1420
26	524	1250	884	875	1070	3070	3930	3650	2190	1400	1220	1340
27	489	1330	872	874	1050	3050	4090	3620	1240	1350	1080	1270
28	485	1370	819	860	1070	3080	4430	3680	1010	1280	1840	1260
29	479	1380	791	859	1100	3230	4680	3630	933	1320	1730	1070
30	483	1470	822	906	---	2220	4750	3880	1010	1390	1360	1020
31	509	---	857	948	---	1890	---	4020	---	1260	1160	---
TOTAL	21452	36442	34991	26734	29947	55290	119050	115750	86983	38449	33371	34816
MEAN	692	1215	1129	862	1033	1784	3968	3734	2899	1240	1076	1161
MAX	1040	1760	1370	948	1130	3230	5840	5020	3910	1480	1840	1420
MIN	479	483	791	742	934	1110	2050	2970	933	989	872	865
AC-FT	42550	72280	69400	53030	59400	109700	236100	229600	172500	76260	66190	69060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1992, 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
MEAN	757	1024	969	796	924	1395	2393	3676	3250	1550	938	816										
MAX	1554	2034	1959	1757	2641	3127	6412	8390	7914	3579	1612	1547										
(WY)	1988	1987	1976	1986	1987	1987	1985	1985	1979	1979	1973	1982										
MIN	361	401	450	436	499	612	489	433	470	394	391	263										
(WY)	1975	1978	1975	1977	1978	1977	1977	1972	1972	1972	1972	1974										

SUMMARY STATISTICS				FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1971 - 1992	
ANNUAL TOTAL				656770		633275			
ANNUAL MEAN				1799		1730		1542	
HIGHEST ANNUAL MEAN								2764	1987
LOWEST ANNUAL MEAN								602	1977
HIGHEST DAILY MEAN				8400	May 22	5840	Apr 15	12000	May 11 1985
LOWEST DAILY MEAN				479	Oct 29	479	Oct 29	195	Aug 4 1977
ANNUAL SEVEN-DAY MINIMUM				493	Oct 26	493	Oct 26	229	Sep 11 1971
INSTANTANEOUS PEAK FLOW						6690	Apr 14	24400	May 23 1920
INSTANTANEOUS PEAK STAGE						7.65	Apr 14	14.50	Sep 29 1904
INSTANTANEOUS LOW FLOW						439	Nov 1		
ANNUAL RUNOFF (AC-FT)				1303000		1256000		1117000	
10 PERCENT EXCEEDS				3930		3690		3650	
50 PERCENT EXCEEDS				1230		1190		957	
90 PERCENT EXCEEDS				784		829		455	

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 RECORD.--

SPECIFIC CONDUCTANCE: October 1946 to current year.

WATER TEMPERATURE: October 1948 to current year.

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, 424 microsiemens, Apr. 6; minimum daily, 245 microsiemens, May 4.

WATER TEMPERATURE: Maximum daily, 26.0°C, June 18; minimum daily, 0.0°C, Dec. 3, Jan. 3, 11, 15-17.

SEDIMENT CONCENTRATION: Maximum daily mean, 8,450 mg/L, Aug. 7; minimum daily mean, 94 mg/L, July 1.

SEDIMENT LOAD: Maximum daily, 54,600 tons, Apr. 15; minimum daily, 262 tons, July 1.

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 samples collected by the field observer.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	COLI-FORM, FECAL, UM-MF (COLS./100 ML) (31625)	STREP-TOCOCCI, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)
NOV 19...	1215	1400	367	8.1	7.5	6.5	25	623	10.6	--	--	140
JAN 30...	1500	967	318	--	11.0	5.0	22	627	11.0	K1	K12	130
JUN 04...	1315	3580	318	7.9	17.0	16.0	25	620	8.3	24	75	120
AUG 03...	1130	895	330	8.1	31.5	21.5	33	628	7.8	220	480	120
SEP 01...	1045	1090	314	8.0	21.5	18.0	45	621	8.4	100	220	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 CO3) (00453)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl) (00940)	
NOV 19...	29	44	7.8	22	0.8	2.8	138	0	113	68	6.6	
JAN 30...	28	41	7.2	22	0.8	2.6	127	0	104	63	8.1	
JUN 04...	39	38	6.9	16	0.6	2.4	103	0	84	60	6.0	
AUG 03...	19	38	6.8	16	0.6	2.3	127	0	104	57	5.6	
SEP 01...	24	38	6.3	15	0.6	2.6	118	0	97	53	5.3	
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 TOTAL (MG/L AS N) (00620)	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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
NOV 19...	0.40	19	236	239	0.080	--	0.020	<0.010	0.100	0.098	0.020	0.010
JAN 30...	0.40	23	216	231	0.230	0.250	0.010	0.010	0.240	0.260	0.030	0.030
JUN 04...	0.30	14	201	195	0.075	--	0.020	<0.010	0.095	<0.050	0.050	0.050
AUG 03...	0.30	17	214	206	--	--	0.040	0.010	<0.050	<0.050	0.070	0.060
SEP 01...	0.30	18	199	197	--	--	<0.010	<0.010	<0.050	<0.050	<0.010	0.020

RIO GRANDE BASIN

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	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)	CYANIDE TOTAL (MG/L AS CN) (00720)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	
	NOV 19...	0.28	0.30	0.40	0.160	<0.010	0.020	0.020	<0.010	40	16	3
JAN 30...	0.17	0.20	0.44	0.040	0.040	0.030	0.040	--	40	20	--	
JUN 04...	0.25	0.30	0.40	0.040	0.020	0.030	0.010	<0.010	30	30	4	
AUG 03...	0.23	0.30	--	0.080	0.020	0.060	0.020	<0.010	20	23	6	
SEP 01...	--	0.40	--	0.120	<0.010	0.010	0.010	<0.010	30	39	8	
DATE	TIME	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)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	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)	
NOV 19...	1215	20	67	<3	19	<3	<1	<1	<1.0	360	<6	
JUN 04...	1315	50	49	<3	13	<10	<1	<1	<1.0	280	<6	
AUG 03...	1130	40	60	<3	13	3	2	<1	<1.0	310	<6	
SEP 01...	1045	120	60	<3	14	4	1	<1	<1.0	300	<6	
DATE		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 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)
NOV 19...		<2.0	1.0	20	200	2	<1	1	<5	8	380	10
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)	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)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	ALPHA SED SUSP DRY WGH AS TH-230 (PCI/L) (04127)	ALPHA, 2 SIGMA SED SUS TOT DRY AS TH-230 (PCI/L) (76004)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)
NOV 19...		53	<0.01	<10	4.3	2.1	--	3.3	9.2	--	4.9	3.8
JUN 04...		--	--	--	2.9	1.7	2.2	1.3	3.5	3.2	2.1	3.4

RIO GRANDE BASIN

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED AS SR/ YT-90) (80050)	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L (75988)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) (80060)	BETA, 2 SIGMA SED, SUSP, TOT DRY SR90Y90 (PCI/L) (76005)	RA-226 2 SIGMA WATER, DISS, METHOD (PCI/L) (76001)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM NATURAL DIS- SOLVED AS U) (22703)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)
NOV 19...	1.1	2.8	0.70	9.0	8.4	2.1	0.020	0.07	2.5	<1.0
JUN 04...	1.1	2.5	0.73	3.7	3.5	0.94	0.010	0.05	1.3	<1.0
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, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)			
NOV 19...	1215	1400	367	6.5	1620	6130	5			
JAN 30...	1500	967	318	5.0	70	183	24			
JUN 04...	1315	3580	318	16.0	291	2810	21			
AUG 03...	1130	895	330	21.5	1390	3370	7			
25...	0620	1200	--	15.5	1110	3600	--			
SEP 01...	1045	1090	314	18.0	227	668	40			
DATE	% FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	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)			
25...	60	67	80	90	92	95	100			

RIO GRANDE BASIN

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, NM -- Continued

WATER-QUALITY RECORDS

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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	963	2730	287	374	2460	9050	799	1950	989	2490	1090	3320
2	907	2300	702	1490	1770	6360	783	1790	999	2620	1110	3320
3	667	1370	1020	2310	1330	3990	770	1540	1120	3000	997	2990
4	585	1150	897	2100	1790	5650	725	1720	1320	3450	2840	9140
5	633	1240	990	2530	1490	4370	767	1910	1070	2810	2450	7520
6	643	1200	1210	3250	1590	4720	836	2080	983	2560	1240	3750
7	569	1020	1110	3010	1560	4760	779	1950	989	2540	959	3000
8	384	647	1080	3000	1860	5660	713	1690	943	2480	1180	3780
9	338	564	1340	3800	1660	5060	903	2090	940	2520	1300	4130
10	1060	2720	1510	4760	1280	3900	914	2050	955	2560	1210	3790
11	1100	2940	1580	5280	1570	5100	722	1620	1030	2810	1100	3480
12	1220	3000	2300	8220	1610	5520	845	2090	1060	2920	1070	3380
13	850	2070	1530	5040	1540	5300	979	2380	1390	4010	1010	3180
14	816	1760	2090	7350	1520	5010	830	1940	1240	3630	1020	3410
15	790	1670	2650	10100	1300	4100	858	1950	1100	3310	1170	4060
16	671	1410	2440	11600	1290	4050	930	2000	1000	2930	1380	5010
17	464	891	1700	7060	1410	4560	897	2010	915	2600	1420	5510
18	635	1100	1750	6700	1450	4840	1190	2850	1120	3080	1520	6510
19	1270	2000	1710	6530	1350	4600	1270	2930	1190	3240	1500	6600
20	434	636	1490	5650	1380	4770	1160	2500	1030	2830	1980	10800
21	323	498	1680	6330	1290	4390	769	1710	1030	2940	3370	21600
22	563	1080	1590	6020	1130	4070	800	1780	1160	3450	3710	24800
23	579	1140	1860	6840	1320	4600	819	1780	1370	4170	3300	22600
24	740	1160	1490	4880	1450	4810	867	2030	1430	4280	2900	21300
25	387	582	1580	4920	976	2430	1140	2700	1190	3440	3200	27300
26	203	288	1720	5810	833	1990	987	2330	896	2580	2820	23400
27	333	438	1780	6370	699	1650	915	2160	1030	2930	2530	20900
28	347	454	1570	5810	638	1410	971	2250	1140	3300	2420	20100
29	664	852	1690	6300	708	1520	892	2070	1100	3250	2310	20100
30	867	1130	2020	7990	758	1690	1240	3040	---	---	2170	13000
31	367	503	---	---	756	1750	1110	2830	---	---	2100	10700
TOTAL	---	40543	---	161424	---	131680	---	65720	---	88730	---	322480

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	2160	12100	2180	29400	947	9990	94	262	259	780	226	646
2	1990	11000	2220	30000	864	8890	142	379	209	549	161	419
3	2260	12800	2160	27900	1130	11200	774	2420	164	393	184	449
4	2620	18600	2020	25800	1330	12900	959	3100	1950	5240	135	315
5	2300	16900	2250	26600	711	6860	1490	5720	216	596	130	323
6	2180	16300	1940	20500	613	5930	1460	5600	903	4290	128	309
7	2320	18200	2220	22100	775	7530	312	951	8450	24700	126	303
8	2220	18300	2380	23700	1000	9800	151	424	3060	8290	144	344
9	2390	20700	2190	22300	890	8770	187	582	1300	3440	140	375
10	3450	33300	1920	21000	867	8580	213	673	212	523	237	749
11	3860	43500	1710	17800	620	6210	371	1460	159	409	220	760
12	3640	45700	1620	15200	523	5240	316	1260	1810	6150	200	697
13	3270	47100	1450	13500	456	4430	232	832	362	1100	190	636
14	3530	53500	1260	11400	463	4360	194	663	199	555	183	608
15	3460	54600	1590	13900	514	4760	184	598	1550	4180	231	811
16	2990	46500	1580	13500	598	5090	170	548	269	692	347	1230
17	2770	40800	1430	12100	503	4100	189	615	129	325	297	1030
18	2610	37600	1210	10100	553	4220	201	653	165	442	247	854
19	2390	31700	1030	8300	656	4820	191	607	289	748	220	784
20	2140	25300	1240	10200	1340	9540	164	501	139	345	200	691
21	2270	24200	1360	11900	5000	32000	265	877	149	350	189	638
22	2030	20400	1530	14300	4180	26100	357	1150	191	456	182	614
23	1970	19500	1380	12900	2050	12700	383	1430	208	495	212	729
24	1670	16300	1120	11000	512	3210	734	2580	782	2600	234	830
25	1460	14800	964	9620	381	2510	446	1550	2140	6680	274	1050
26	1460	15500	966	9510	385	2280	499	1890	1850	6110	233	842
27	1590	17600	895	8740	477	1570	427	1560	1140	3320	198	680
28	1640	19600	971	9650	372	1020	358	1240	863	4290	169	576
29	1840	23300	657	6440	155	394	299	1070	607	2850	140	402
30	1990	25600	699	7350	110	301	382	1430	381	1420	119	329
31	---	---	906	9820	---	---	240	818	251	788	---	---
TOTAL	---	801300	---	486530	---	225305	---	43443	---	93106	---	19023

TOTAL LOAD FOR YEAR: 2479284 TONS.

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, 5.8 mi east of Santa Fe, and at mile 37.1.

DRAINAGE AREA.--17.4 mi².

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, gage height, 99.91 ft; minimum, 1,770 acre-ft, Sept.30, gage height, 83.81.

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 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2830	2800	2810	2830	2820	2830	2840	2860	2850	2830	2230	1940
2	2830	2790	2810	2830	2830	2830	2840	2860	2850	2830	2230	1930
3	2830	2790	2810	2830	2830	2830	2840	2860	2840	2830	2230	1920
4	2830	2790	2810	2830	2830	2830	2840	2860	2840	2830	2220	1920
5	2830	2790	2810	2830	2830	2830	2840	2850	2850	2830	2220	1910
6	2830	2790	2810	2830	2830	2830	2840	2850	2850	2830	2220	1910
7	2830	2780	2810	2830	2830	2840	2840	2850	2850	2810	2220	1900
8	2830	2780	2810	2830	2830	2840	2850	2850	2850	2730	2220	1890
9	2820	2780	2800	2830	2830	2840	2850	2850	2850	2750	2210	1890
10	2820	2780	2800	2830	2830	2840	2850	2840	2840	2720	2210	1880
11	2820	2780	2810	2830	2830	2830	2850	2840	2840	2690	2220	1870
12	2820	2780	2820	2830	2830	2830	2860	2850	2850	2660	2220	1870
13	2820	2780	2820	2830	2830	2830	2860	2850	2840	2630	2220	1860
14	2820	2790	2820	2830	2830	2840	2860	2850	2840	2600	2230	1850
15	2820	2790	2820	2830	2830	2840	2860	2850	2840	2570	2230	1860
16	2820	2800	2820	2830	2830	2840	2850	2850	2840	2530	2230	1850
17	2820	2800	2820	2830	2830	2840	2850	2850	2840	2500	2230	1850
18	2820	2800	2830	2830	2820	2840	2850	2850	2840	2470	2220	1840
19	2810	2800	2830	2830	2820	2840	2840	2850	2840	2430	2190	1850
20	2810	2800	2830	2830	2830	2840	2840	2850	2840	2400	2160	1840
21	2810	2800	2830	2830	2820	2840	2840	2850	2840	2370	2150	1840
22	2810	2810	2830	2830	2820	2830	2840	2850	2840	2350	2130	1830
23	2810	2810	2830	2830	2820	2840	2840	2850	2840	2330	2100	1830
24	2810	2810	2830	2830	2820	2830	2840	2850	2830	2310	2090	1820
25	2810	2810	2830	2830	2830	2830	2840	2850	2830	2300	2080	1810
26	2810	2810	2830	2820	2830	2840	2850	2850	2830	2280	2060	1810
27	2800	2810	2830	2820	2830	2840	2790	2850	2830	2260	2040	1800
28	2800	2810	2830	2820	2830	2840	2850	2850	2830	2240	2020	1800
29	2800	2810	2830	2820	2830	2840	2800	2850	2830	2230	2000	1790
30	2800	2810	2830	2810	---	2840	2860	2850	2830	2230	1980	1770
31	2800	---	2830	2820	---	2840	---	2850	---	2230	1960	---
MAX	2830	2810	2830	2830	2830	2840	2860	2860	2850	2830	2230	1940
MIN	2800	2780	2800	2810	2820	2830	2790	2840	2830	2230	1960	1770
(†)	99.07	99.38	99.50	99.36	99.49	99.70	99.89	99.78	99.52	90.95	86.79	83.81
(††)	-30	+10	+20	-10	+10	+10	+20	-10	-20	-600	-270	-190

CAL YR 1991 MAX 2860 MIN 1200 (††) +1220
WTR YR 1992 MAX 2860 MIN 1770 (††) -1060

(†) 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 NE¼SE¼ 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 poor. 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 the 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e6.2	e3.0	e3.1	e2.9	3.6	5.1	20	56	34	7.7	3.3	12
2	e5.8	e3.0	e3.0	e2.9	3.7	6.3	18	55	32	7.1	3.3	7.6
3	e5.4	e3.0	e3.0	e2.9	3.7	7.5	17	55	31	6.9	3.3	4.9
4	e5.0	e3.0	e3.0	e2.9	4.0	11	18	56	30	6.6	3.3	4.9
5	e4.6	e2.9	e3.0	e3.0	4.6	9.5	18	51	31	6.4	3.3	4.9
6	e4.2	e2.9	e3.0	e3.0	4.6	9.1	21	46	35	5.9	3.4	4.9
7	e3.8	e2.9	e3.0	e3.0	4.4	11	24	42	39	10	3.3	4.9
8	e3.4	e2.9	e3.0	e3.0	4.8	15	29	40	36	18	3.3	4.9
9	e3.2	e2.9	e3.0	e3.0	4.6	15	36	37	31	18	3.3	4.9
10	e3.2	e2.9	e3.0	e3.0	4.3	14	45	37	28	18	3.3	4.9
11	e3.2	e2.9	e3.0	e3.0	4.1	13	57	33	28	17	3.3	4.9
12	e3.2	e2.9	e2.9	e3.0	3.7	13	62	31	28	18	3.4	4.9
13	e3.1	e2.9	e2.9	e3.0	3.7	13	72	31	28	18	3.4	4.8
14	e3.1	e3.0	e2.9	e3.0	4.0	15	99	33	26	17	3.4	4.6
15	e3.1	e3.2	e2.9	e3.1	3.6	18	91	36	23	17	3.3	4.8
16	e3.1	e3.4	e2.9	e3.1	4.0	19	64	37	21	17	3.3	4.6
17	e3.1	e3.4	e2.9	e3.1	3.7	19	47	38	19	17	3.5	4.6
18	e3.1	e3.2	e2.9	e3.2	3.6	19	44	39	17	17	9.0	4.6
19	e3.0	e3.2	e2.9	e3.2	3.6	18	40	38	16	17	12	4.7
20	e3.0	e3.2	e2.9	e3.2	3.6	16	31	48	18	17	12	4.6
21	e3.0	e3.2	e2.8	e3.2	3.6	15	25	49	18	17	12	4.6
22	e3.0	e3.2	e2.8	e3.2	3.6	14	24	51	16	13	12	4.6
23	e3.0	e3.2	e2.8	e3.2	3.7	14	22	53	14	11	12	4.6
24	e3.0	e3.2	e2.8	e3.4	3.8	13	23	45	13	11	12	4.6
25	e3.2	e3.2	e2.8	e3.4	4.0	13	24	41	12	11	12	4.6
26	e3.2	e3.2	e2.8	e3.4	4.2	14	28	39	12	11	12	4.6
27	e3.1	e3.2	e2.8	e3.4	4.3	16	34	37	11	11	12	4.6
28	e3.0	e3.2	e2.8	e3.5	4.4	19	43	35	10	11	12	4.6
29	e3.0	e3.1	e2.8	e3.5	4.6	20	50	33	9.7	8.2	12	4.6
30	e3.0	e3.1	e2.8	e3.5	---	19	55	38	8.8	3.3	12	4.6
31	e3.0	---	e2.9	3.5	---	19	---	36	---	3.3	12	---
TOTAL	109.3	92.5	90.1	97.7	116.1	442.5	1181	1296	675.5	387.4	221.7	151.9
MEAN	3.53	3.08	2.91	3.15	4.00	14.3	39.4	41.8	22.5	12.5	7.15	5.06
MAX	6.2	3.4	3.1	3.5	4.8	20	99	56	39	18	12	12
MIN	3.0	2.9	2.8	2.9	3.6	5.1	17	31	8.8	3.3	3.3	4.6
AC-FT	217	183	179	194	230	878	2340	2570	1340	768	440	301

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1913	4.58	22.6	1942	.58	1957
1914	3.05	13.5	1942	.26	1972
1915	2.64	7.19	1959	.28	1944
1916	2.46	6.87	1970	.50	1990
1917	2.69	14.2	1916	.37	1927
1918	4.74	30.0	1916	.34	1972
1919	12.7	68.5	1915	.23	1981
1920	23.0	92.9	1941	.53	1955
1921	17.0	75.2	1921	.70	1955
1922	9.33	56.2	1919	1.06	1981
1923	8.51	74.0	1921	.81	1951
1924	6.68	36.0	1929	.90	1959

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1913 - 1992
ANNUAL TOTAL	4018.9	4861.7	
ANNUAL MEAN	11.0	13.3	8.12
HIGHEST ANNUAL MEAN			26.2
LOWEST ANNUAL MEAN			1.88
HIGHEST DAILY MEAN	75	99	378
LOWEST DAILY MEAN	2.8	2.8	.10
ANNUAL SEVEN-DAY MINIMUM	2.8	2.8	.17
INSTANTANEOUS PEAK FLOW		112	1500
INSTANTANEOUS PEAK STAGE		3.06	5.17
INSTANTANEOUS LOW FLOW			.05
ANNUAL RUNOFF (AC-FT)	7970	9640	5880
10 PERCENT EXCEEDS	26	37	18
50 PERCENT EXCEEDS	5.2	4.8	4.2
90 PERCENT EXCEEDS	3.0	3.0	1.0

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 13020201, 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, 693 acre-ft, many days; maximum gage height, 167.28 ft Apr. 4, 5, 6, 19; minimum, 282 acre-ft, Sept. 30, gage height, 150.18.

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 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	688	e617	e685	e688	e678	688	688	692	692	e570	e600	423
2	688	e620	e685	e688	e678	688	690	693	e692	e560	e590	428
3	686	e620	e685	e688	680	688	692	693	e692	e550	579	424
4	684	622	e685	e688	e680	688	693	692	e692	e540	e549	421
5	683	e622	e685	e688	e680	687	693	692	e692	e530	e529	415
6	685	e625	e685	688	e682	687	693	692	e692	e520	526	412
7	684	e628	e685	e688	e682	688	693	693	e692	e515	499	405
8	680	e634	e685	e688	e684	688	693	693	692	e510	484	394
9	680	e640	685	e688	e684	688	692	693	e692	e510	466	385
10	682	e643	e685	e688	e686	688	692	692	e692	504	458	372
11	679	e646	e688	e688	688	688	692	692	692	e520	429	359
12	674	e652	e688	e688	688	688	692	692	e692	e535	419	347
13	675	e655	e688	688	687	688	693	692	e692	555	399	339
14	676	e661	e688	e688	688	687	693	692	e692	e560	382	330
15	676	e667	e688	e688	688	687	693	692	692	e570	368	329
16	673	e673	688	e688	688	687	693	693	e680	e575	357	320
17	667	e679	e685	e688	689	688	693	692	e670	e580	342	317
18	e664	682	e685	e688	687	688	693	692	e650	e590	333	315
19	e664	e682	e685	e688	688	688	693	693	e640	e605	336	311
20	e661	e682	e685	688	688	687	693	692	e625	622	338	314
21	661	e682	e679	e685	687	687	693	693	e610	e630	341	314
22	e655	e682	e679	e685	687	688	692	693	601	e635	342	317
23	e649	e682	679	e685	688	688	692	693	e590	e640	347	317
24	e643	e682	e679	682	688	687	692	693	e590	e645	357	313
25	e637	e682	e685	e682	688	687	692	693	e586	e650	366	308
26	e631	e682	e685	e679	687	687	692	692	e590	e655	374	304
27	e625	e682	e685	679	688	687	692	693	e590	661	382	299
28	620	e682	e685	e679	688	687	692	693	e590	e650	388	292
29	e614	e682	e685	e679	687	687	692	693	590	e640	392	289
30	e614	e685	688	678	---	687	692	692	e580	e630	398	282
31	e617	---	e688	e678	---	688	---	693	---	e615	409	---
MAX	688	685	688	688	689	688	693	693	692	661	600	428
MIN	614	617	679	678	678	687	688	692	580	504	333	282
(+)	---	---	---	166.74	167.06	167.08	167.22	167.25	---	---	156.46	150.18
(++)	-71	+68	+3	-10	+9	+1	+4	+1	-113	+35	-206	-127

CAL YR 1991 MAX 698 MIN 172 (++) +358
WTR YR 1992 MAX 693 MIN 282 (++) -406

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

e Estimated

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.--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 1991 TO SEPTEMBER 1992

Date	Discharge	Date	Discharge	Date	Discharge
Oct. 3	1.02	Feb. 7	0	June 15	.22
Nov. 7	0	Mar. 10	0	Aug. 7	1.3
Dec. 4	0	Apr. 24	0	Sept. 10	.99
Jan. 2	0	May 8	.74		

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	12	15	13	15	20	34	e76	e20	3.4	e7.1	8.3
2	6.9	12	15	13	20	18	37	e65	e18	3.7	e6.6	7.8
3	6.4	12	15	12	24	18	37	e57	e18	6.9	e7.0	6.2
4	6.3	12	14	12	18	24	35	e52	e17	6.2	e7.1	7.6
5	6.2	13	16	11	17	24	32	e48	e16	6.3	e7.9	6.6
6	6.6	13	16	13	16	23	32	e46	e15	6.0	e7.2	7.5
7	6.7	14	15	14	15	25	35	e42	e14	5.1	7.0	6.9
8	6.3	8.5	14	12	13	26	39	e54	e14	6.9	7.8	6.1
9	6.0	12	14	11	12	30	40	e320	e13	4.7	7.9	7.6
10	6.4	11	13	11	13	29	41	e240	e12	6.1	7.5	5.9
11	7.4	13	15	12	14	28	46	e110	e12	8.0	6.6	7.4
12	8.2	12	18	12	14	28	50	e48	e11	9.5	14	6.7
13	7.8	12	14	11	15	27	59	e31	e10	7.5	6.5	7.1
14	8.0	16	14	11	16	26	104	e30	e10	6.6	7.3	8.0
15	8.3	21	13	e10	15	29	919	e29	e9.6	7.0	9.3	7.1
16	8.4	25	13	e9.0	14	31	951	e28	12	6.4	8.2	6.6
17	8.2	14	13	e9.4	14	32	1000	e27	9.5	5.0	10	7.0
18	8.7	13	15	e9.9	17	33	839	e27	7.6	6.5	10	7.1
19	9.2	12	26	e10	18	32	673	e26	12	5.8	8.3	12
20	9.1	12	21	e10	18	31	802	e26	34	6.2	7.7	8.5
21	8.6	13	17	e10	19	32	893	e25	30	5.9	6.6	7.9
22	8.5	12	16	e10	18	30	934	e25	18	5.2	7.9	7.8
23	9.4	12	15	e10	17	31	550	e24	8.0	4.3	7.4	7.2
24	9.4	12	15	e11	18	30	21	e24	6.0	7.5	12	7.6
25	9.5	13	13	e11	17	28	27	e23	5.4	6.4	8.3	7.1
26	11	13	14	e11	18	28	45	e23	5.0	8.2	8.5	8.4
27	11	12	14	e10	18	29	54	e22	4.7	e5.5	8.1	7.7
28	11	13	14	e10	19	36	269	e21	5.8	e7.2	7.8	8.2
29	12	13	14	e11	18	35	e460	e20	6.9	e6.5	6.7	7.6
30	12	14	14	e12	---	37	e120	e19	5.1	e7.0	7.5	4.6
31	12	---	15	13	---	36	---	e19	---	e8.0	8.2	---
TOTAL	263.6	396.5	470	345.3	480	886	9178	1627	379.6	195.5	250.0	222.1
MEAN	8.50	13.2	15.2	11.1	16.6	28.6	306	52.5	12.7	6.31	8.06	7.40
MAX	12	25	26	14	24	37	1000	320	34	9.5	14	12
MIN	6.0	8.5	13	9.0	12	18	21	19	4.7	3.4	6.5	4.6
AC-FT	523	786	932	685	952	1760	18200	3230	753	388	496	441
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1992, 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
MEAN	7.39	8.60	9.58	9.69	9.95	10.2	22.6	17.4	13.0	8.32	7.36	7.54											
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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1970 - 1992
ANNUAL TOTAL	5033.7	14693.6	
ANNUAL MEAN	13.8	40.1	11.2
HIGHEST ANNUAL MEAN			40.1
LOWEST ANNUAL MEAN			6.09
HIGHEST DAILY MEAN	156	1000	1000
LOWEST DAILY MEAN	3.3	3.4	.00
ANNUAL SEVEN-DAY MINIMUM	3.7	4.9	.01
INSTANTANEOUS PEAK FLOW		2140	a11400
INSTANTANEOUS PEAK STAGE		5.13	9.58
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (AC-FT)	9980	29140	8090
10 PERCENT EXCEEDS	24	36	15
50 PERCENT EXCEEDS	9.5	13	7.8
90 PERCENT EXCEEDS	5.4	6.6	2.6

a-From rating curve extended above 160 ft³/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 1991 TO SEPTEMBER 1992

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 DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	HARDNESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)
NOV 21...	1102	9.2	572	--	--	7.0	--	--	--	--	--
JAN 02...	1510	10	620	8.2	16.0	4.0	630	10.3	--	--	--
MAR 10...	1430	29	355	8.0	13.0	12.0	635	12.0	47	110	36
JUN 15...	1245	9.6	415	8.0	22.5	24.0	621	6.2	--	110	34
AUG 18...	1130	7.1	590	8.0	25.0	24.0	630	5.6	39	120	37
SEP 10...	1400	3.7	640	7.6	27.5	17.0	625	8.6	--	--	--
16...	1100	5.4	700	8.0	23.0	22.0	625	6.0	--	120	38

DATE	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)	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)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)
NOV 21...	--	--	--	--	--	--	--	--	--	--
JAN 02...	--	--	--	--	--	--	--	--	--	--
MAR 10...	5.9	31	1	4.5	131	30	20	0.50	18	231
JUN 15...	5.2	48	2	6.0	128	33	28	0.60	19	251
AUG 18...	6.0	77	3	10	151	37	50	0.90	23	378
SEP 10...	--	--	--	--	--	--	--	--	--	--
16...	5.6	89	4	10	193	35	48	0.80	27	369

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
MAR 10...	0.800	0.790	0.070	0.070	0.870	0.860	0.220	0.230	1.4	1.6
AUG 18...	4.60	4.60	3.20	3.20	7.80	7.80	3.30	3.40	3.1	6.4

DATE	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS, 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)	SEDIMENT, DISCHARGE, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 21...	--	--	--	--	--	--	--	99	2.5	25
MAR 10...	2.5	1.00	0.660	0.670	15	70	310	553	43	61
JUN 15...	--	--	--	--	--	120	39	106	2.8	73
AUG 18...	14	3.00	2.50	2.50	14	200	51	743	14	7
SEP 16...	--	--	--	--	--	250	21	--	--	--

RIO GRANDE BASIN

08317300 COCHITI LAKE NEAR COCHITI PUEBLO, NM

LOCATION.--Lat 35°37'01", long 106°18'58", in NW¼SW¼ sec.16, T.16 N., R.6 E., Sandoval County, Hydrologic Unit 13020201, in Pueblo de Cochiti Grant, in control tower at Cochiti Dam, 1.7 mi northeast of Cochiti Pueblo, and at mile 1,588.1.

DRAINAGE AREA.--14,900 mi² approximately, including 2,940 mi², in closed basin in San Luis Valley, CO.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1973 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). Prior to Apr. 15, 1975, at site 1.3 mi upstream at same datum.

REMARKS.--Lake is formed by an earthfill dam on Rio Grande and Santa Fe River. Storage began on Nov. 12, 1973. Capacity, based on capacity table effective Jan. 1, 1988, 502,330 acre-ft between elevations 5,247.0 ft and 5,450.0 ft, crest of service spillway. Dead storage 560 acre-ft below elevation 5,255.0 ft, invert of outlet structure. Lake was created primarily for flood and sediment control. A 50,000-acre-ft permanent pool is authorized for recreational purposes. 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, 301,000 acre-ft, July 3, 1986, elevation, 5,417.32 ft; no storage prior to Nov. 12, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 93,550 acre-ft, Apr. 19, elevation, 5,358.50 ft; minimum, 45,450 acre-ft, Jan. 3, elevation, 5,328.07 ft.

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

(Based on survey by Corps of Engineers in 1988)

5,325	42,250	5,375	135,480
5,335	53,620	5,385	166,390
5,345	68,010	5,395	201,410
5,355	86,140	5,405	241,230
5,365	108,740	5,415	286,210

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49870	49230	49090	45880	45930	59850	82540	74650	49660	49520	49390	49170
2	50240	49150	48990	45770	46010	59850	82830	74430	48760	49180	49360	49220
3	50200	49180	48790	45450	45910	59820	82580	73810	47640	48930	49220	49170
4	50060	49230	49050	46120	45860	59820	82580	73460	47050	48880	49390	49060
5	50000	49290	49250	46280	45990	59820	82790	72790	47340	49180	49640	49050
6	49900	49150	49340	46070	45940	59790	82620	71190	47650	49520	49830	49130
7	49760	49030	49270	46030	45850	59790	82240	69190	47540	49420	49930	49100
8	49550	49060	49070	46040	45870	59850	81890	67130	47400	49040	49570	49050
9	49240	49170	49010	45990	45970	59980	81170	65150	47320	48900	49500	49060
10	49200	49360	49060	45950	45950	60080	80440	63180	47240	48820	49370	49110
11	49390	49360	49120	45930	45840	60020	80790	60270	47240	49010	49490	49180
12	49480	48990	48970	45950	45770	59690	81470	57340	47270	49370	49730	49300
13	49450	48740	48940	45880	45800	59390	82830	55820	47180	49610	49470	49320
14	49310	48920	48900	45860	46590	59190	85020	54830	47060	49690	49350	49320
15	49150	48970	48890	45890	48150	59070	88030	53770	47170	49720	49500	49400
16	49250	49090	48990	45860	49570	59090	90830	52560	47230	49690	49440	49500
17	49450	48920	49120	46040	50900	59160	92610	51900	47300	49690	49410	49440
18	49510	48840	49210	46100	52190	59460	93410	51530	47180	49710	49390	49350
19	49430	49070	48980	46030	53490	59750	93550	50910	47290	49660	49390	49390
20	49270	49030	48970	45750	54790	60570	92960	50540	47070	49500	49410	49270
21	49100	48850	49280	45910	56110	61990	91680	50570	47340	49410	49330	49230
22	49060	48920	49600	46210	57400	63550	89850	50730	47280	49500	49300	49210
23	49370	49080	49510	46080	58720	65130	87900	50870	47130	49500	49310	49220
24	49480	49030	49140	45990	60150	66860	85550	50880	47440	49780	49440	49260
25	49450	48940	48360	46150	60490	69300	82890	50590	48610	49640	49690	49440
26	49370	49020	48250	46060	60110	71990	80630	50270	50100	49620	49740	49450
27	49310	49160	48610	45930	59850	74270	78560	50250	50310	49570	49460	49350
28	49310	49310	48750	45910	59960	76860	76920	50080	49580	49440	49440	49310
29	49340	49100	49030	45900	59900	79660	75900	49650	49450	49470	49460	49470
30	49240	49120	49270	45950	---	81270	75030	49670	49620	49620	48810	49440
31	49170	---	49270	45950	---	81970	---	50110	---	49470	48840	---
MAX	50240	49360	49600	46280	60490	81970	93550	74650	50310	49780	49930	49500
MIN	49060	48740	48250	45450	45770	59070	75030	49650	47050	48820	48810	49050
(†)	5331.45	5331.40	5331.53	5328.54	5339.67	5352.85	5349.16	5332.24	5331.83	5331.71	5331.16	5331.58
(††)	-170	-50	+150	-3320	+13950	+22070	-6940	-24920	-490	-150	-630	+600

CAL YR 1991 MAX 111470 MIN 48250
WTR YR 1992 MAX 93550 MIN 45450

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

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 from the bottom of the lake.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SAM- PLING DEPTH (FEET) (000003)	RESER- VOIR DEPTH (FEET) (72025)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (000400)	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 DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
AUG											
25...	1053	1.00	82.0	351	8.2	--	22.5	631	6.5	--	--
25...	1054	5.00	82.0	--	--	--	21.5	631	6.6	--	--
25...	1055	10.0	82.0	--	--	--	21.5	631	6.4	--	--
25...	1056	15.0	82.0	--	--	--	21.5	631	6.4	--	--
25...	1057	20.0	82.0	--	--	--	21.5	631	6.4	--	--
25...	1058	25.0	82.0	--	--	--	21.0	631	6.4	--	--
25...	1059	30.0	82.0	--	--	--	21.0	631	6.3	--	--
25...	1100	35.0	82.0	--	--	--	21.0	631	6.2	--	--
25...	1101	40.0	82.0	350	8.1	--	21.0	631	6.1	--	--
25...	1102	45.0	82.0	--	--	--	21.0	631	3.9	--	--
25...	1103	50.0	82.0	--	--	--	20.5	631	3.3	--	--
25...	1104	55.0	82.0	--	--	--	20.0	631	2.8	--	--
25...	1105	60.0	82.0	--	--	--	20.0	631	2.0	--	--
25...	1106	65.0	82.0	--	--	--	20.0	631	1.5	--	--
25...	1107	70.0	82.0	--	--	--	20.0	631	1.1	--	--
25...	1108	75.0	82.0	351	7.5	26.5	19.5	631	0.4	20	<1

DATE	STREP- TOCOC 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)
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AUG	25...	<1	130	21	40	7.3	18	0.7	2.6	133	0	109
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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 TOTAL (MG/L AS N) (00620)	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)
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AUG	25...	58	5.6	0.40	18	216	0.150	0.020	<0.010	0.170	0.170
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DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	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)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
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AUG	25...	0.030	0.020	0.17	0.20	0.37	0.050	0.060	0.030	3.7	2	2
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RIO GRANDE BASIN

08317300 COCHITI LAKE NEAR COCHITI PUEBLO, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)
AUG 25...	40	<1	1.0	1	<1	29	<1	150	10	<1	<0.10
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)
AUG 25...	<0.1	<1	<1	2200	<3	34	130	1200	2000	5	1
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)	% FINER THAN .062 MM (70331)	
AUG 25...	10	20	20	130000	20	8900	0.02	640	22	100	

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. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	680	494	1330	906	824	993	1860	5360	4260	832	931	713
2	705	669	1320	901	826	937	1990	5360	4440	896	828	763
3	713	803	1220	747	926	960	2300	5360	4380	906	794	761
4	656	845	1040	628	891	980	2470	5210	3980	883	704	759
5	618	868	1010	852	829	974	2480	5110	3390	820	698	707
6	595	1060	1080	985	925	974	2830	5060	3410	830	756	686
7	580	1070	1150	901	936	980	2970	4990	3620	843	881	717
8	571	1010	1190	836	890	990	3140	4880	3630	829	869	716
9	587	1020	1140	829	885	953	3490	4860	3600	827	863	734
10	643	1050	1100	805	935	937	3780	5180	3570	817	812	803
11	704	1230	1210	788	963	1040	3890	5580	3560	811	713	877
12	704	1440	1310	823	958	1180	3900	5150	3500	810	802	881
13	702	1300	1250	856	948	1190	3920	4290	3440	810	954	879
14	692	1130	1240	806	596	1150	4120	3900	3310	812	866	875
15	640	1320	1170	726	262	1200	4320	3810	3160	810	729	880
16	523	1480	1100	642	260	1210	4350	3800	2930	821	806	897
17	467	1500	1110	676	261	1240	4640	3510	2810	818	757	946
18	465	1360	1200	754	259	1250	4920	3380	2710	819	800	924
19	465	1230	1350	836	269	1330	4920	3370	2480	857	766	964
20	465	1340	1240	827	279	1340	4940	3360	2300	876	743	997
21	465	1380	1110	671	284	1350	4930	3350	2090	856	751	924
22	465	1280	1110	645	286	1360	4900	3430	2080	840	726	891
23	438	1230	1320	778	286	1340	4890	3600	2070	861	701	888
24	422	1230	1380	793	291	1440	5020	3770	1840	911	729	891
25	422	1170	1340	788	779	1350	5240	3910	1200	903	796	905
26	429	1160	940	847	1120	1570	5180	3810	875	1050	899	934
27	374	1200	757	820	1090	1580	5270	3670	1030	1040	969	931
28	343	1230	797	752	896	1600	5400	3780	1150	1020	1130	882
29	335	1360	701	750	990	1620	5370	3950	784	950	1310	768
30	359	1320	780	759	---	1480	5360	3950	642	904	1400	695
31	445	---	906	825	---	1480	---	3950	---	1040	928	---
TOTAL	16672	34779	34901	24552	19944	37978	122790	132690	82241	27102	26411	25188
MEAN	538	1159	1126	792	688	1225	4093	4280	2741	874	852	840
MAX	713	1500	1380	985	1120	1620	5400	5580	4440	1050	1400	997
MIN	335	494	701	628	259	937	1860	3350	642	810	698	686
AC-FT	33070	68980	69230	48700	39560	75330	243600	263200	163100	53760	52390	49960
(†)	7370	268	0	0	0	5900	7250	7500	7150	7610	7330	6820
(††)	4140	0	0	0	0	3280	4340	4460	3920	4390	4400	4310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1992, BY WATER YEAR (WY)

	MEAN	524	902	935	830	995	1253	2092	3124	2886	1712	867	635
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1971 - 1992

ANNUAL TOTAL	591858	585248	
ANNUAL MEAN	1622	1599	1397
HIGHEST ANNUAL MEAN			2355
LOWEST ANNUAL MEAN			452
HIGHEST DAILY MEAN	5120	5580	8290
LOWEST DAILY MEAN	287	259	39
ANNUAL SEVEN-DAY MINIMUM	383	268	39
INSTANTANEOUS PEAK FLOW			b10300
INSTANTANEOUS PEAK STAGE			a7.90
INSTANTANEOUS LOW FLOW			c.51
ANNUAL RUNOFF (AC-FT)	1174000	1161000	1012000
10 PERCENT EXCEEDS	3660	3950	3620
50 PERCENT EXCEEDS	1150	953	830
90 PERCENT EXCEEDS	627	642	329

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 11.8.

DRAINAGE AREA.--596 mi².

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

08317950 GALISTEO CREEK BELOW GALISTEO DAM, NM

LOCATION.--Lat 35°27'53", long 106°12'49", in NE¼ 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	1.3	e.80	e.80	2.9	2.2	8.2	2.0	.50	.00	35	4.2
2	1.2	.16	e.90	e.70	3.3	2.3	8.1	1.9	1.3	.00	4.6	.17
3	.49	.69	e.90	e.50	3.5	4.1	7.1	2.1	.56	.00	.58	.01
4	.28	.85	e.75	e1.0	3.4	4.3	6.3	2.7	.35	.00	.23	.00
5	.17	.98	e.70	e.90	2.8	2.9	5.0	1.8	.10	.00	.00	.00
6	.19	.58	e.70	e1.0	2.5	2.8	4.7	1.1	.13	.00	1.4	.00
7	.23	.39	e.60	e.80	2.8	3.2	4.8	1.0	2.0	.00	.98	.00
8	.23	.33	e.60	e.80	3.5	5.0	6.5	.91	e11	.00	.00	.00
9	.22	.47	e.50	e.80	3.5	7.6	8.2	1.0	e6.0	.00	.00	.00
10	.24	.41	e.50	e.80	3.1	7.9	8.6	1.3	1.6	.00	.00	.00
11	.23	.00	e.50	e.70	3.3	6.6	11	.68	.09	17	.00	.00
12	.27	.57	e.60	e.90	2.8	6.2	12	.45	.00	.16	9.6	.00
13	.27	.69	e.60	e.90	2.7	5.6	16	.04	.00	.00	10	.00
14	.27	.93	e.50	e.70	3.3	5.2	16	.00	.00	.00	62	.00
15	.26	.07	e.50	e.50	2.3	5.6	15	.00	.00	.00	3.9	.40
16	.24	.78	e.40	e.50	2.4	6.1	13	.00	.00	.00	.59	2.4
17	.26	1.1	e.50	e.70	1.9	6.3	e5.0	.00	.00	.00	.47	.00
18	.18	.17	e.70	e1.5	2.0	6.1	e5.0	.00	.00	.00	.31	.00
19	.18	.23	e.80	e1.2	2.0	6.1	e5.0	.00	.00	.00	.53	1.0
20	.21	.84	e.50	e1.5	2.3	5.9	e4.0	.22	15	.00	.00	2.2
21	.29	1.0	e.60	e1.3	2.6	5.6	e4.0	2.3	220	17	.04	2.4
22	.26	.61	e.50	e1.1	2.1	5.1	e4.0	1.8	13	30	.61	.00
23	.36	.70	e.70	e1.3	2.4	4.8	e3.0	4.1	3.0	40	.21	.00
24	.43	.87	e.80	e5.0	2.6	4.1	e3.0	3.6	.86	37	.66	.00
25	.44	.85	e.80	e4.0	2.1	3.8	e3.0	4.2	.55	14	.47	.00
26	.36	.80	e.50	4.3	2.1	3.8	e2.0	4.1	.00	61	.00	.00
27	.44	.80	e.70	4.4	1.9	4.0	e2.0	2.8	.00	12	.00	.00
28	.29	.65	e.70	3.7	2.0	4.5	e2.0	1.4	.00	5.3	.00	.00
29	.42	1.1	e.40	3.4	2.0	5.8	.80	.75	.00	1.5	.00	.00
30	.00	e1.0	e.60	3.2	---	7.0	3.0	4.0	.00	.00	.00	.00
31	.00	---	e.80	2.9	---	8.9	---	1.9	---	66	9.2	---
TOTAL	11.01	19.92	19.65	51.80	76.1	159.4	196.30	48.15	276.04	300.96	141.38	12.78
MEAN	.36	.66	.63	1.67	2.62	5.14	6.54	1.55	9.20	9.71	4.56	.43
MAX	2.1	1.3	.90	5.0	3.5	8.9	16	4.2	220	66	62	4.2
MIN	.00	.00	.40	.50	1.9	2.2	.80	.00	.00	.00	.00	.00
AC-FT	22	40	39	103	151	316	389	96	548	597	280	25

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1992, BY WATER YEAR (WY)

	MEAN	5.21	1.30	1.55	1.38	1.86	2.19	3.06	2.93	5.73	22.8	15.9	11.0
MAX	28.9	7.20	6.55	5.62	7.02	10.2	23.8	31.7	29.5	110	55.7	52.4	
(WY)	1982	1987	1987	1987	1979	1985	1973	1985	1979	1971	1991	1972	
MIN	.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 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1970 - 1992

ANNUAL TOTAL	3436.08	1313.49	6.13	
ANNUAL MEAN	9.41	3.59	12.8	1972
HIGHEST ANNUAL MEAN			1.28	1980
LOWEST ANNUAL MEAN				
HIGHEST DAILY MEAN	513	Aug 7	1170	Jul 27 1971
LOWEST DAILY MEAN	.00	Jan 1	.00	May 15 1970
ANNUAL SEVEN-DAY MINIMUM	.00	Apr 6	.00	May 30 1970
INSTANTANEOUS PEAK FLOW			a2000	Jul 27 1971
INSTANTANEOUS PEAK STAGE			b7.00	Jul 27 1971
ANNUAL RUNOFF (AC-FT)	6820	2610	4440	
10 PERCENT EXCEEDS	14	6.3	7.0	
50 PERCENT EXCEEDS	.58	.80	.48	
90 PERCENT EXCEEDS	.00	.00	.00	

a-From rating curve extended above 1,400 ft³/s.

b-Maximum gage height, 7.33 ft, July 20, 1971.

RIO GRANDE BASIN
08319000 RIO GRANDE AT SAN FELIPE, NM
(Surveillance network station)

LOCATION.--Lat 35°26'39", long 106°26'23", in SW¼ sec. 17, T. 14 N., R. 5 E., Sandoval County, Hydrologic Unit 13020201, in San Felipe Grant, on right bank 200 ft downstream from Tonque Arroyo, 1,700 ft upstream from steel highway bridge, 0.8 mi upstream from San Felipe Pueblo, 11 mi northeast of Bernalillo, and at mile 1,572.7.
DRAINAGE AREA.--16,100 mi², approximately, including 2,940 mi² in closed basin in San Luis Valley, CO.

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.--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 1991 TO SEPTEMBER 1992

DAY	DAILY MEAN VALUES										
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	SEP
1	729	552	1380	932	987	1020	1860	5680	4160	791	1420
2	789	525	1400	934	950	1010	2030	5540	4510	894	1010
3	793	586	1370	869	983	1030	2190	5460	4470	926	1000
4	792	792	1220	686	998	1070	2490	5360	4170	967	843
5	729	826	1120	839	896	1080	2550	5150	3500	864	847
6	715	978	1180	1030	933	1060	2700	5130	3330	1090	877
7	706	1050	1250	988	982	1050	2950	5000	3690	1330	1060
8	706	988	1290	898	927	1050	3060	4960	3770	1310	1190
9	711	1000	1260	900	917	1030	3430	4860	3800	1300	1100
10	749	1010	1200	892	941	1050	4030	4950	3830	1290	1180
11	829	1110	1240	872	989	1090	4340	5430	3850	1270	974
12	834	1280	1360	893	1000	1270	4340	5130	3850	1290	824
13	837	1310	1310	945	983	1290	4310	4230	3770	1280	1020
14	835	1160	1300	928	834	1310	4420	3730	3740	1260	1070
15	800	1220	1260	842	339	1310	4720	3610	3560	1270	807
16	704	1410	1180	761	320	1340	4790	3570	3320	1260	867
17	612	1450	1150	694	309	1350	4980	3360	3110	1270	886
18	610	1400	1220	800	305	1360	5500	3110	3030	1280	845
19	603	1280	1320	928	303	1430	5480	3120	2840	1320	812
20	593	1400	1320	948	303	1460	5480	3100	2580	1370	718
21	592	1420	1150	856	312	1470	5440	3110	2630	1360	753
22	602	1310	1160	735	310	1490	5380	3170	2230	1340	745
23	593	1280	1250	865	311	1510	5310	3350	2330	1340	730
24	573	1290	1370	937	314	1620	5330	3550	2120	1220	754
25	572	1260	1320	896	542	1640	5670	3810	1490	1270	809
26	561	1240	1110	963	1100	1670	5590	3780	870	1460	881
27	531	1290	795	981	1100	1670	5700	3580	1000	1480	946
28	467	1310	844	905	948	1700	5820	3610	1200	1400	1050
29	470	1450	815	910	1010	1710	5820	3900	968	1300	1180
30	472	1380	756	918	---	1740	5700	3930	580	1180	1300
31	469	---	937	947	---	1750	---	3940	---	1360	1130
TOTAL	20578	34557	36837	27492	21146	41630	131410	130210	88298	38342	29628
MEAN	664	1152	1188	887	729	1343	4380	4200	2943	1237	956
MAX	837	1450	1400	1030	1100	1750	5820	5680	4510	1480	1420
MIN	467	525	756	686	303	1010	1860	3100	580	791	718
AC-FT	40820	68540	73070	54530	41940	82570	260700	258300	175100	76050	58770
(†)	1520	0	0	0	0	1460	1770	1680	1780	1670	1640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1992, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	639	948	1030	904	1079	1387	2329	3338	3153	1950	1054	796							
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 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1974 - 1992

ANNUAL TOTAL	621372	627955	
ANNUAL MEAN	1702	1716	a1551
HIGHEST ANNUAL MEAN			2493
LOWEST ANNUAL MEAN			547
HIGHEST DAILY MEAN	4530	Jun 18	8100
LOWEST DAILY MEAN	353	Jan 14	67
ANNUAL SEVEN-DAY MINIMUM	498	Oct 27	135
INSTANTANEOUS PEAK FLOW			b27300
INSTANTANEOUS PEAK STAGE			6.79
INSTANTANEOUS LOW FLOW			May 11
ANNUAL RUNOFF (AC-FT)	1232000	1246000	c11.13
10 PERCENT EXCEEDS	3650	4160	32
50 PERCENT EXCEEDS	1260	1110	970
90 PERCENT EXCEEDS	729	714	427

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-Site and datum then in use.

c-From rating curve extended above 15,000 ft³/s.

(†) 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 1991 TO SEPTEMBER 1992

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 DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREP-TOCOCCI, KF AGAR (COLS. PER 100 ML) (31673)	
JAN 14...	1216	950	377	8.3	3.5	2.0	629	13.2	<10	K4	38	
JUN 26...	1000	845	360	7.9	27.0	17.0	633	7.2	14	20	110	
AUG 20...	0830	688	350	7.8	22.0	19.0	638	7.8	14	K93	150	
SEP 17...	1100	996	338	8.3	25.0	20.0	635	8.1	<10	K64	K96	
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)	
JAN 14...	140	22	45	7.8	22	0.8	2.8	149	0	122		
JUN 26...	140	32	42	7.7	22	0.8	3.2	128	0	105		
AUG 20...	130	18	41	7.3	20	0.8	2.7	139	0	114		
SEP 17...	130	21	39	7.0	19	0.7	2.7	128	0	105		
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 TOTAL (MG/L AS N) (00620)	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)
JAN 14...	60	8.5	0.40	22	242	0.150	0.010	<0.010	0.160	0.130	0.010	
JUN 26...	72	6.1	0.40	17	234	--	0.020	<0.010	<0.050	0.057	0.050	
AUG 20...	62	6.5	0.30	18	226	--	0.030	<0.010	<0.050	<0.050	0.050	
SEP 17...	56	5.3	0.30	18	210	--	--	--	--	--	--	
DATE		NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	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)	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)
JAN 14...	<0.010	--	<0.20	0.040	0.020	<0.010	2.7	2	<1	40	<1	
JUN 26...	0.060	0.45	0.50	0.080	0.060	0.030	3.8	--	--	40	--	
AUG 20...	0.040	0.45	0.50	0.080	0.050	0.020	2.2	2	2	40	<1	
SEP 17...	--	--	--	--	--	--	3.7	--	--	40	--	

08319000 RIO GRANDE AT SAN FELIPE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)
JAN 14...	<1.0	<1	<1	10	2	5	1	<1	<0.10	<0.1	<1
JUN 26...	--	--	--	--	--	7	--	--	--	--	--
AUG 20...	<1.0	2	<1	2	2	6	2	<1	<0.10	0.3	<1
SEP 17...	--	--	--	--	--	5	--	--	--	--	--

[illegible]

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)
JAN 14...	<5	4	3900	<10	160	<0.01	20	43	110	12
JUN 26...	--	--	--	--	--	--	--	49	112	77
AUG 20...	--	--	--	--	--	--	--	219	407	27
SEP 17...	--	--	--	--	--	--	--	24	65	78

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	16	25	29	29	59	194	398	144	23	16	19
2	19	17	25	29	30	68	171	390	124	22	15	18
3	18	13	26	28	31	76	183	385	110	22	15	17
4	18	13	25	28	31	72	222	370	105	20	14	16
5	17	18	26	28	31	62	230	325	107	21	13	15
6	17	17	25	29	30	63	235	295	98	20	14	15
7	17	19	25	27	29	75	322	280	87	20	21	14
8	16	18	26	27	32	84	391	285	79	19	19	14
9	16	18	25	28	32	79	470	305	79	20	15	14
10	16	18	25	27	31	72	539	335	69	20	15	14
11	16	23	28	28	32	70	603	270	62	21	20	14
12	16	24	31	27	32	73	640	265	57	22	24	13
13	16	19	29	27	33	81	824	245	53	24	21	13
14	15	24	29	28	34	94	950	248	46	23	17	13
15	15	44	30	27	30	108	759	230	42	20	16	15
16	15	36	32	27	31	117	596	228	39	19	15	16
17	14	30	31	26	30	126	514	220	37	18	14	15
18	14	30	30	27	27	119	509	225	35	17	13	14
19	13	26	31	28	30	109	447	196	34	19	13	16
20	13	25	30	27	32	110	346	224	34	18	13	18
21	13	29	30	27	33	117	295	337	38	19	13	16
22	13	29	31	25	36	115	283	301	34	17	15	16
23	13	18	29	26	39	111	283	300	31	19	17	15
24	14	28	30	25	40	110	315	331	30	30	73	14
25	15	28	30	25	38	112	355	301	29	24	74	14
26	14	25	30	26	38	127	365	270	29	22	36	13
27	13	25	29	25	38	142	390	237	28	22	29	13
28	13	27	31	25	42	152	398	229	26	18	22	13
29	17	25	30	26	50	159	400	179	25	18	19	13
30	17	25	34	27	---	161	405	187	24	18	18	12
31	15	---	31	28	---	192	---	162	---	17	18	---
TOTAL	477	707	889	837	971	3215	12634	8553	1735	632	657	442
MEAN	15.4	23.6	28.7	27.0	33.5	104	421	276	57.8	20.4	21.2	14.7
MAX	19	44	34	29	50	192	950	398	144	30	74	19
MIN	13	13	25	25	27	59	171	162	24	17	13	12
AC-FT	946	1400	1760	1660	1930	6380	25060	16960	3440	1250	1300	877
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1992, BY WATER YEAR (WY)												
MEAN	20.0	20.0	16.9	15.3	18.0	52.8	199	218	58.0	21.4	23.3	20.2
MAX	57.6	56.8	31.8	27.0	33.5	104	421	471	174	31.4	40.6	47.8
(WY)	1987	1987	1987	1992	1992	1992	1992	1985	1983	1983	1988	1988
MIN	10.5	8.11	7.54	7.79	7.66	22.0	77.4	25.9	12.9	10.0	13.6	8.81
(WY)	1988	1990	1990	1990	1990	1990	1990	1989	1989	1989	1990	1989

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1982 - 1992
ANNUAL TOTAL	19188	31749	
ANNUAL MEAN	52.6	86.7	57.0
HIGHEST ANNUAL MEAN			101
LOWEST ANNUAL MEAN			23.5
HIGHEST DAILY MEAN	514	May 21	950
LOWEST DAILY MEAN	11	Jul 11	12
ANNUAL SEVEN-DAY MINIMUM	11	Jul 9	13
INSTANTANEOUS PEAK FLOW			1450
INSTANTANEOUS PEAK STAGE			7.60
INSTANTANEOUS LOW FLOW			Apr 14
ANNUAL RUNOFF (AC-FT)	38060	62970	41320
10 PERCENT EXCEEDS	149	284	144
50 PERCENT EXCEEDS	25	28	21
90 PERCENT EXCEEDS	14	14	10

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.

DRAINAGE AREA.--470 mi².

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 except for estimated daily discharges, which are poor. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	34	47	51	48	82	362	511	221	37	35	39
2	48	48	42	39	50	90	329	518	198	34	31	37
3	45	37	42	43	50	99	330	503	179	34	30	34
4	42	34	50	60	52	98	442	480	163	34	31	30
5	39	46	55	55	53	91	518	445	163	30	30	30
6	38	48	58	59	51	88	544	392	153	31	31	29
7	37	50	54	55	49	99	781	378	136	31	41	27
8	37	49	58	48	57	109	894	362	131	27	38	26
9	35	44	53	40	57	107	896	384	132	29	29	25
10	36	42	51	48	56	99	912	512	121	29	28	23
11	34	47	64	54	57	100	1030	417	111	31	41	23
12	35	56	65	57	56	104	948	355	104	34	50	23
13	34	50	52	56	56	113	972	354	91	36	49	22
14	34	55	46	44	62	126	1050	344	83	37	40	26
15	34	97	52	46	49	146	958	329	76	33	40	27
16	35	98	55	46	56	157	809	303	68	31	35	26
17	37	76	56	54	52	181	735	280	64	27	34	23
18	30	77	63	49	43	177	677	270	60	27	32	25
19	30	63	60	49	47	163	601	258	59	30	28	33
20	30	54	58	48	53	165	500	269	57	28	26	35
21	29	69	59	54	58	177	457	335	61	27	30	32
22	30	72	60	50	58	177	430	327	56	28	31	32
23	31	49	55	46	65	173	411	348	52	29	37	29
24	34	53	55	49	62	184	423	400	48	55	83	29
25	35	64	53	49	59	195	444	362	47	47	156	26
26	34	58	59	49	66	230	458	327	49	42	77	26
27	33	58	54	48	63	272	469	295	45	41	62	27
28	33	62	46	48	67	282	494	281	42	35	47	27
29	38	60	56	47	74	314	504	238	43	42	39	26
30	39	53	49	48	---	313	519	261	44	38	36	27
31	36	---	58	49	---	343	---	272	---	35	37	---
TOTAL	1111	1703	1685	1538	1626	5054	18897	11110	2857	1049	1334	844
MEAN	35.8	56.8	54.4	49.6	56.1	163	630	358	95.2	33.8	43.0	28.1
MAX	49	98	65	60	74	343	1050	518	221	55	156	39
MIN	29	34	42	39	43	82	329	238	42	27	26	22
AC-FT	2200	3380	3340	3050	3230	10020	37480	22040	5670	2080	2650	1670

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1992, BY WATER YEAR (WY)

	MEAN	36.5	38.2	28.8	27.9	35.1	82.4	276	241	65.8	33.0	46.8	35.0
MAX	109	128	58.2	49.6	72.3	221	961	1118	274	78.5	121	95.8	95.8
(WY)	1987	1987	1987	1992	1986	1985	1958	1973	1979	1986	1957	1991	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	11.1
(WY)	1957	1957	1957	1977	1955	1981	1955	1967	1955	1972	1956	1956	1956

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1954 - 1992
ANNUAL TOTAL	35293	48808	
ANNUAL MEAN	96.7	133	79.0
HIGHEST ANNUAL MEAN			189
LOWEST ANNUAL MEAN			29.3
HIGHEST DAILY MEAN	743	Apr 7	3160
LOWEST DAILY MEAN	24	Jan 11	2.1
ANNUAL SEVEN-DAY MINIMUM	27	Jan 6	6.0
INSTANTANEOUS PEAK FLOW		1250	a5900
INSTANTANEOUS PEAK STAGE		6.73	b10.10
INSTANTANEOUS LOW FLOW			1.2
ANNUAL RUNOFF (AC-FT)	70000	96810	57200
10 PERCENT EXCEEDS	237	386	170
50 PERCENT EXCEEDS	58	53	34
90 PERCENT EXCEEDS	30	30	18

a-From rating curve extended above 2,200 ft³/s on basis of contracted-opening measurement of peak flow.

b-Present datum.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (000061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (000095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (000400)	TEMPER- ATURE AIR (DEG C) (000020)	TEMPER- ATURE WATER (DEG C) (000010)	BARO- METRIC PRES- SURE (MM OF HG) (000025)	OXYGEN, DIS- SOLVED (MG/L) (000300)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (000340)	HARD- NESS TOTAL (MG/L AS CACO3) (000900)	CALCIUM DIS- SOLVED (MG/L AS CA) (000915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (000925)	
JAN	10...	1515	45	460	8.1	9.0	4.0	620	10.3	--	--	--	
MAR	18...	1300	179	275	7.7	13.5	6.0	615	13.0	31	95	32	3.7
JUN	16...	1200	69	380	8.1	26.0	16.0	617	8.4	--	140	46	4.9
AUG	18...	1300	31	480	8.4	28.0	24.5	625	8.6	<10	140	46	5.4
SEP	11...	1145	24	700	8.4	27.5	25.5	625	5.5	--	--	--	--
	15...	1330	28	550	8.8	27.0	21.0	620	5.8	--	140	46	5.2

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)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00615)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
JAN 10...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 18...	15	0.7	3.3	103	13	16	0.40	27	173	0.030	<0.010	<0.050
JUN 16...	29	1	4.9	154	9.2	34	0.60	28	249	--	--	--
AUG 18...	49	2	8.2	163	10	61	0.80	35	314	0.020	0.010	<0.050
SEP 11...	--	--	--	--	--	--	--	--	--	--	--	--
15...	52	2	8.4	178	9.5	64	0.90	39	332	--	--	--

[illegible]

[illegible]

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, 45,540 acre-ft, Apr. 23, elevation, 5,208.41 ft; minimum contents, 23,650 acre-ft, Sept. 30, elevation, 5,193.87 ft.

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

Oct. 1 to Dec. 31

Jan. 1 to Sept. 30

(Based on survey by COE in 1985)

(Based on survey by COE in 1992)

5,190	20,840	5,195	27,060	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 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26400	26020	26170	24280	24370	25180	29920	44550	28190	26380	25770	24490
2	26330	26000	26120	24290	24330	25190	30410	43640	27800	26360	25750	24490
3	26310	26030	26120	24290	24290	25290	30850	42760	27650	26320	25640	24450
4	26280	26020	26150	24410	24290	25390	31380	41580	27720	26280	25390	24430
5	26280	26020	26170	24490	24240	25410	32050	40110	27760	26230	25170	24380
6	26280	26060	26290	24610	24240	25440	32720	38570	27730	26220	25140	24340
7	26280	26070	26330	24710	24240	25450	33510	37070	27690	26210	25180	24300
8	26290	26080	26400	24730	24240	25560	34570	35530	27690	26170	25180	24280
9	26290	26100	26370	24580	24240	25600	35670	34040	27720	26130	25170	24220
10	26280	26140	26240	24430	24240	25680	36820	32630	27840	26090	25170	24160
11	26290	26200	26120	24420	24240	25690	38010	31530	27920	26090	25010	24120
12	26320	26210	26440	24460	24240	25650	39210	30220	27920	26040	25190	24080
13	26320	26170	26210	24460	24290	25640	40390	29500	27840	25990	25090	24040
14	26320	26100	26160	24340	24340	25640	41580	29140	27700	25950	25020	23970
15	26330	26620	26080	24120	24410	25650	42670	28800	27620	25890	25060	24000
16	26360	27550	26040	24010	24450	25670	43490	28720	27610	25810	25060	23960
17	26360	27720	26100	24040	24470	25880	44160	28550	27570	25790	24910	23920
18	26340	27570	26270	24140	24530	25990	44670	28370	27500	25750	24790	23910
19	26320	27170	26320	24220	24570	26110	45060	28190	27430	25750	24740	23910
20	26330	26660	26330	24280	24610	26230	45320	28080	27340	25660	24700	23940
21	26330	26340	26400	24410	24670	26380	45390	28020	27300	25660	24650	23950
22	26360	26420	26400	24410	24740	26550	45480	28100	27260	25610	24650	23920
23	26360	26490	26370	24330	24820	26670	45540	28310	27190	25620	24690	23870
24	26320	26520	26270	24340	24950	26800	45410	28660	27210	25660	24740	23870
25	26250	26490	26170	24370	25050	26960	45250	28980	27190	25730	24990	23820
26	26200	26370	26100	24380	25140	27220	45160	29110	27100	25750	25050	23810
27	26140	26280	26100	24380	25210	27540	45080	28840	26960	25750	24860	23770
28	26070	26290	26070	24390	25250	27970	45020	28300	26780	25700	24770	23700
29	25990	26290	26060	24420	25220	28420	44970	27910	26660	25640	24770	23660
30	25900	26210	26060	24420	---	28930	45000	28060	26550	25540	24740	23650
31	25940	---	26140	24390	---	29400	---	28680	---	25540	24590	---
MAX	26400	27720	26440	24730	25250	29400	45540	44550	28190	26380	25770	24490
MIN	25900	26000	26040	24010	24240	25180	29920	27910	26550	25540	24590	23650
(†)	5194.15	5194.36	5194.30	5194.44	5195.06	5198.10	5208.11	5197.58	5196.04	5195.30	5194.59	5193.87
(††)	-550	+270	-70	*-1750	+830	+4180	+15600	-16320	-2130	-1010	-950	-940
CAL YR 1991	MAX 39530	MIN 16220	(†)	+9330								
WTR YR 1992	MAX 45540	MIN 23650	(†)	-2840								

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

(††) CHANGE IN CONTENTS, IN ACRE-FEET.

* COMPUTED ON BASIS OF REVISED CAPACITY TABLE PUT INTO USE JAN. 1, 1992.

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.

DRAINAGE AREA.--1,038 mi².

PERIOD OF RECORD.--March 1936 to January 1938, March 1943 to current year. Published as "Jemez Creek" prior to 1948, and as "near Bernalillo" prior to 1954.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	17	62	24	64	73	110	663	342	32	20	73
2	43	17	61	24	63	73	122	866	389	13	19	8.2
3	20	17	39	24	64	72	123	857	270	.96	50	7.6
4	1.3	17	26	24	63	72	124	1080	149	.90	116	7.2
5	1.3	17	26	24	53	71	124	1300	156	.79	113	7.1
6	1.4	17	26	24	48	71	124	1300	188	.76	11	6.8
7	1.3	17	26	24	52	71	124	1310	168	.58	.21	6.5
8	1.2	17	26	49	52	70	175	1340	162	.02	.19	5.6
9	9.1	18	75	112	54	69	202	1320	100	.00	.06	3.6
10	22	19	116	108	54	74	202	1320	53	.00	6.3	4.8
11	9.9	19	116	68	54	99	203	1330	52	.00	58	4.9
12	1.3	28	162	67	54	123	205	1170	85	.00	83	4.7
13	1.3	65	162	67	54	123	205	764	113	.00	82	4.2
14	1.3	85	84	88	42	124	273	552	111	.00	36	4.4
15	1.2	84	84	124	16	124	306	406	78	.00	4.9	3.9
16	1.3	85	59	81	16	124	308	306	45	.00	4.9	3.5
17	1.4	84	25	21	16	123	310	305	41	.00	52	3.1
18	1.3	167	25	20	16	123	311	306	41	.00	47	3.4
19	1.2	263	68	19	17	123	312	306	40	.00	13	3.5
20	1.2	297	78	19	17	123	313	310	39	.00	4.7	3.6
21	1.2	199	66	19	17	122	315	313	39	.00	.49	3.5
22	1.2	24	66	52	17	122	313	290	40	.00	.50	3.3
23	16	24	84	94	17	122	310	255	42	.00	.50	3.3
24	40	24	101	66	17	122	360	258	42	.05	.50	4.3
25	39	65	101	44	17	122	388	262	41	.00	3.1	3.3
26	39	124	82	43	17	122	388	314	57	.00	57	3.2
27	39	101	66	43	16	122	386	431	86	6.7	126	3.3
28	38	64	65	43	50	122	387	579	86	19	77	3.7
29	38	63	64	43	72	122	393	477	51	27	7.4	3.8
30	32	63	56	54	---	122	395	224	32	25	7.1	3.6
31	18	---	34	64	---	122	---	229	---	32	84	---
TOTAL	476.4	2101	2131	1576	1109	3267	7811	20743	3138	158.76	1084.85	204.9
MEAN	15.4	70.0	68.7	50.8	38.2	105	260	669	105	5.12	35.0	6.83
MAX	53	297	162	124	72	124	395	1340	389	32	126	73
MIN	1.2	17	25	19	16	69	110	224	32	.00	.06	3.1
AC-FT	945	4170	4230	3130	2200	6480	15490	41140	6220	315	2150	406

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1992, BY WATER YEAR (WY)

	MEAN	23.7	25.7	20.3	22.4	27.8	52.7	176	185	69.5	19.3	45.2	19.8
MAX	178	179	68.7	50.8	56.7	172	577	968	988	137	247	157	
(WY)	1958	1958	1992	1992	1963	1989	1945	1973	1958	1958	1991	1988	
MIN	.000	2.47	2.15	3.13	12.2	13.7	5.63	.000	.000	.000	.13	.000	
(WY)	1956	1989	1977	1951	1967	1981	1951	1972	1946	1947	1950	1945	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1943 - 1992

ANNUAL TOTAL	28050.77	43800.91	
ANNUAL MEAN	76.9	120	57.9
HIGHEST ANNUAL MEAN			178
LOWEST ANNUAL MEAN			10.6
HIGHEST DAILY MEAN	1320	Aug 21	3640
LOWEST DAILY MEAN	.22	Jul 21	.00
ANNUAL SEVEN-DAY MINIMUM	.28	May 27	.00
INSTANTANEOUS PEAK FLOW			b16300
INSTANTANEOUS PEAK STAGE			a5.62
ANNUAL RUNOFF (AC-FT)	55640	86880	41930
10 PERCENT EXCEEDS	167	310	130
50 PERCENT EXCEEDS	22	52	17
90 PERCENT EXCEEDS	.38	1.2	.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 Barelbas Stormwater Pumping Station outfall, 600 ft downstream from Tucker Road bridge, and 1,500 ft northeast of intersection of Lomas and University Blvds. in Albuquerque.

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.--Records good except for estimated daily discharges, which are fair. Recording rain gage at station.

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, 570 ft³/s, at 2000 hours Aug. 6, gage height, 2.70 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	2.9	.00	1.9	.00
2	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
3	.00	.31	---	---	---	---	.00	.00	.00	.00	.00	.00
4	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
5	.00	.00	---	---	---	---	.86	.00	.00	.00	.00	.00
6	.00	.00	---	---	---	---	.00	5.3	1.9	.38	31	.00
7	.00	.00	---	---	---	---	.00	12	.40	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	1.6	.30	.00	.00
9	.00	.00	---	---	---	---	.00	1.3	.00	7.9	.00	.00
10	.00	.00	---	---	---	---	.00	1.4	.00	5.5	.00	.00
11	.00	.88	---	---	---	---	.00	.91	.00	.91	7.4	.00
12	.00	.00	---	---	---	---	.00	.68	.00	.87	3.8	.00
13	.00	---	---	---	---	.00	.00	.00	.00	.00	e.00	.00
14	.00	---	---	---	---	.00	.89	.00	.00	.00	e.00	.00
15	.00	---	---	---	---	.00	.00	.00	.00	.00	e.00	5.8
16	.00	---	---	---	---	.00	.00	.00	.00	.00	e.00	.00
17	.00	---	---	---	---	.00	.00	2.7	.00	.00	e.00	.00
18	.00	---	---	---	---	.00	.00	.00	.00	.00	e.00	.00
19	.00	---	---	---	---	.00	.00	.00	.00	.00	e.00	2.9
20	.00	---	---	---	---	.00	.00	2.9	.00	.00	e2.0	.00
21	.00	---	---	---	---	.00	.00	.41	.00	.00	e.00	.00
22	.00	---	---	---	---	.00	.00	5.7	.00	.00	e.00	.00
23	.00	---	---	---	---	.00	.00	3.3	.00	4.2	e1.0	.00
24	.00	---	---	---	---	.00	.00	.00	.00	1.4	e5.0	.00
25	.00	---	---	---	---	.00	.00	1.9	.00	.00	.00	.00
26	.00	---	---	---	---	.00	.00	.00	2.5	.48	.00	.00
27	.00	---	---	---	---	.00	.00	.00	2.1	.00	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
29	.00	---	---	---	---	.00	.00	3.9	.00	.00	.00	.00
30	.77	---	---	---	---	.00	.00	.00	.07	.00	.00	.00
31	.95	---	---	---	---	.00	---	.00	---	1.5	.00	---
TOTAL	1.72	---	---	---	---	---	1.75	42.40	11.47	23.44	52.10	8.70
MEAN	.055	---	---	---	---	---	.058	1.37	.38	.76	1.68	.29
MAX	.95	---	---	---	---	---	.89	12	2.9	7.9	31	5.8
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	3.4	---	---	---	---	---	3.5	.84	.23	.46	103	17
(†)							0.33	1.48	0.68	0.77	2.33	0.72

(†) Total rainfall accumulation in inches.

e Estimated

RIO GRANDE BASIN

08329700 CAMPUS WASH AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1991 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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 DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)*	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)*	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	
OCT 03...	1001	0.10	521	9.1	21.0	22.0	632	8.1	26	16	--	
FEB 05...	1202	0.05	611	10.1	12.0	17.0	630	13.5	18	3.0	--	
JUL 23...	0930	0.25	891	9.1	23.0	23.5	--	--	31	3.0	5000	
DATE	TIME	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- RINE, TOTAL RESI- DUAL (MG/L) (50060)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT 03...	--	160	49	8.0	38	1	6.1	91	75	0.08	40	
FEB 05...	--	170	55	7.9	45	2	6.4	114	96	--	52	
JUL 23...	K730	310	98	16	70	2	10	183	190	<0.02	76	
DATE	TIME	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS STO2) (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- PENDE (MG/L) (00530)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	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)	
OCT 03...	0.60	54	344	327	--	1.08	0.320	0.020	0.010	1.10		
FEB 05...	--	--	403	331	1	--	--	0.010	--	<0.050		
JUL 23...	--	--	666	570	62	0.680	--	0.030	--	0.710		
DATE	TIME	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	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)	
OCT 03...	0.330	3.60	0.030	1.7	5.3	6.4	2.00	0.180	1.60	0.040		
FEB 05...	--	0.010	--	0.39	0.40	--	0.550	0.420	--	--		
JUL 23...	--	0.020	--	0.78	0.80	1.5	0.970	0.840	--	--		

* Analyses performed by City of Albuquerque Water Quality Laboratory

RIO GRANDE BASIN

08329700 CAMPUS WASH AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	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)	ANTI- MONY, TOTAL (UG/L AS SB) (01097)	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)		
OCT 03...	4.8	<0.010	<1	<1	<1	4	<10	<1	2	5		
FEB 05...	4.7	<0.010	<1	<1	--	10	<10	<1	2	11		
JUL 23...	9.1	<0.010	<1	<1	--	12	<10	<1	1	7		
DATE	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- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)		
OCT 03...	2	<0.10	<1	3	<1	--	10	13	--	--		
FEB 05...	3	<0.10	<1	3	<1	<200	10	11	0.00	77		
JUL 23...	2	<0.10	<1	4	<1	<10	20	29	0.02	--		
DATE	TIME	DI- BROMO- METHANE 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)	ACE- NAPHTH- YLENE TOTAL (UG/L) (34200)
OCT 03...	1001	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	0.2	<0.2	<5.0
FEB 05...	1202	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<5.0
JUL 23...	0930	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	<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)
OCT 03...	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.01	<5.0	<5.0	<5.0	<5.0
FEB 05...	<5.0	<20	<20	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0	<5.0
JUL 23...	<5.0	<20	<20	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0	<5.0

RIO GRANDE BASIN

08329700 CAMPUS WASH AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)
OCT 03...	<0.20	<0.2	<10.0	<5.0	<5.0	--	--	--	--	<0.2	<5.0	<5.0
FEB 05...	<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 23...	<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)
OCT 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
FEB 05...	<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 23...	<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 (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)
OCT 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
FEB 05...	<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 23...	<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- 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)	1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34561)	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)
OCT 03...	<0.2	<0.2	<5.0	<10.0	<0.20	<5.0	<5.0	<0.2	<5.0	<5.0	<5.0	<10.0
FEB 05...	<0.2	<0.2	<5.0	<10.0	--	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<10.0
JUL 23...	<0.2	<0.2	<5.0	<10.0	--	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<10.0

RIO GRANDE BASIN

08329700 CAMPUS WASH AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	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)	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)
OCT 03...	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	<0.2
FEB 05...	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	<0.2
JUL 23...	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	<0.2

DATE	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)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	PENTA- CHLORO- PHENOL TOTAL (UG/L) (39032)	PER- THANE TOTAL (UG/L) (39034)	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)
OCT 03...	<0.1	<5.0	<5.0	<0.2	<0.2	0.07	<30.0	<0.1	--	--	<5.0	<5.0
FEB 05...	<0.1	<5.0	<5.0	<0.2	<0.2	--	<30.0	--	<0.10	<0.10	77.0	<5.0
JUL 23...	<0.1	<5.0	<5.0	<0.2	<0.2	--	<30.0	--	<0.10	<0.10	<5.0	<5.0

DATE	BENZI- DINE TOTAL (UG/L) (39120)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L) (39250)	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)	BETA BENZENE HEXA- CHLOR- IDE TOTAL (UG/L) (39338)	LINDANE TOTAL (UG/L) (39340)
OCT 03...	<40.0	<0.2	<0.2	<0.10	--	--	--	<0.010	<0.01	<0.01	<0.010
FEB 05...	<40.0	<0.2	<0.2	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030
JUL 23...	<40.0	<0.2	<0.2	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030

DATE	CHLOR- DANE, TOTAL (UG/L) (39350)	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)	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)
OCT 03...	<0.1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<1	<0.010	<0.010	<0.01
FEB 05...	<0.1	--	--	--	<0.020	--	<0.060	<2	<0.030	<0.80	--
JUL 23...	<0.1	--	--	--	<0.020	--	<0.060	<2	<0.030	<0.80	--

RIO GRANDE BASIN

08329700 CAMPUS WASH AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	AROCLO 1221 PCB TOTAL (UG/L) (39488)	AROCLO 1232 PCB TOTAL (UG/L) (39492)	AROCLO 1242 PCB TOTAL (UG/L) (39496)	AROCLO 1248 PCB TOTAL (UG/L) (39500)	AROCLO 1254 PCB TOTAL (UG/L) (39504)	AROCLO 1260 PCB TOTAL (UG/L) (39508)	PCB, TOTAL (UG/L) (39516)	HEXA- CHLORO- BENZENE TOTAL (UG/L) (39700)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L) (39702)	MIREX, TOTAL (UG/L) (39755)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L) (77093)
OCT 03...	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	<5.0	<0.01	--
FEB 05...	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	--	<5.0	<5.0	--	<0.2
JUL 23...	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	--	<5.0	<5.0	--	<0.2
DATE	STYRENE TOTAL (UG/L) (77128)	1,1-DI CHLORO- PRO- PENE, WAT, WH TOTAL (UG/L) (77168)	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)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)
OCT 03...	<0.2	--	--	--	--	--	--	--	--	--	--
FEB 05...	<0.2	<0.2	<0.2	<0.2	--	--	--	--	<0.2	<0.20	--
JUL 23...	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
DATE	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)	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)
OCT 03...	--	--	--	--	--	--	<0.2	<0.20	--	--	<5.0
FEB 05...	--	--	--	<0.2	<0.2	--	<0.2	<0.20	<0.2	<1.0	<5.0
JUL 23...	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.20	<0.2	<1.0	<5.0

RIO GRANDE BASIN

08329872 PINO ARROYO AT VENTURA AT ALBUQUERQUE, NM.

LOCATION.--Lat 35°08'40", long 106°32'50", Bernalillo County, Hydrologic Unit 132020203, in Elena Gallegos Grant, on the grounds of the Tanoan Country Club, on right bank, and 30 ft upstream from Ventura Blvd in Albuquerque.

DRAINAGE AREA.--

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, 126 ft³/s, at 0205 hours July 23, 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.06	---	---	---	---	.02	.05	.17	.07	.07	---
2	.05	.05	---	---	---	---	.02	.13	.06	.05	2.1	---
3	.04	.05	---	---	---	---	.02	.05	.07	.11	.13	---
4	.04	.04	---	---	---	---	.01	.04	.04	.14	.10	---
5	.03	.04	---	---	---	---	.01	.01	.04	.17	.08	---
6	.09	.04	---	---	---	---	.01	.03	.85	.15	.27	---
7	.06	.04	---	---	---	---	.02	.03	.45	.09	1.9	---
8	.11	.04	---	---	---	---	.01	.07	.37	.45	---	---
9	.16	.04	---	---	---	---	.01	.31	.07	.17	---	---
10	.12	.03	---	---	---	---	.01	.06	.05	.07	---	.04
11	.13	.12	---	---	---	---	.02	.04	.08	.06	---	.08
12	.15	.04	---	---	---	---	.03	.07	.04	.07	---	.07
13	.14	---	---	---	---	---	.07	.11	.05	.04	---	.06
14	.10	---	---	---	---	---	.03	.15	.04	.03	---	.07
15	.12	---	---	---	---	---	.02	.11	.06	.05	---	1.6
16	.12	---	---	---	---	---	.02	.05	.08	.04	---	.15
17	.13	---	---	---	---	---	.01	.04	.05	.06	---	.06
18	.11	---	---	---	---	---	.01	.06	.02	.05	---	.07
19	.11	---	---	---	---	---	.01	.50	.06	.05	---	.87
20	.10	---	---	---	---	---	.01	.40	.07	.04	---	.06
21	.10	---	---	---	---	---	.01	.69	.08	.12	---	.05
22	.09	---	---	---	---	---	.02	.29	.08	.09	---	.09
23	.08	---	---	---	---	.01	.06	.07	.11	6.5	---	.06
24	.08	---	---	---	---	.04	.03	.12	.08	.09	---	.07
25	.09	---	---	---	---	.03	.03	.13	.09	.12	---	.08
26	.09	---	---	---	---	.02	.03	.08	.05	.10	---	.18
27	.09	---	---	---	---	.05	.01	.05	.05	.20	---	.05
28	.09	---	---	---	---	.06	.05	.08	.07	.11	---	.06
29	.08	---	---	---	---	.06	.06	1.4	.04	.65	---	.07
30	.15	---	---	---	---	.02	.06	.48	.04	.10	---	.10
31	.07	---	---	---	---	.01	---	.06	---	.07	---	---
TOTAL	2.97	---	---	---	---	---	0.73	5.76	3.41	10.11	---	---
MEAN	.096	---	---	---	---	---	.024	.19	.11	.33	---	---
MAX	.16	---	---	---	---	---	.07	1.4	.85	6.5	---	---
MIN	.03	---	---	---	---	---	.01	.02	.02	.03	---	---
AC-FT	5.9	---	---	---	---	---	1.4	11	6.8	20	---	---

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, at drainage outlet of east parking lot of Hoffmantown Baptist Church, at northern boundary of Albuquerque Academy and 0.1 mi downstream from Ventura Blvd. in Albuquerque.

DRAINAGE AREA.--

PERIOD OF RECORD.--August 1990 to current year (no winter records).

GAGE.--Water-stage recorder and Palmer-Bowlus 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, 9.4 ft³/s, at 1820 hours Aug. 15, 1991, gage height, 1.31 ft; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.4 ft³/s, at 1855 hours June 6, gage height, 1.16 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
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	.08	.00	.13	.00
7	.00	.00	---	---	---	---	.00	.00	.01	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	.03	.00	.00	.00
9	.00	.00	---	---	---	---	.00	.01	.00	.02	.00	.00
10	.00	.00	---	---	---	---	.00	.03	.00	.02	.00	.00
11	.00	.01	---	---	---	---	.00	.00	.00	.00	.13	.00
12	.00	---	---	---	---	---	.00	.00	.00	.01	.00	.00
13	.00	---	---	---	---	---	.01	.00	.00	.00	.00	.00
14	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
15	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.11
16	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
17	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
19	.00	---	---	---	---	---	.00	.03	.00	.00	.00	.06
20	.00	---	---	---	---	---	.00	.03	.00	.00	.01	.00
21	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
22	.00	---	---	---	---	---	.00	.06	.00	.00	.00	.00
23	.00	---	---	---	---	---	.00	.00	.00	.10	.04	.00
24	.00	---	---	---	---	.00	.00	.01	.00	.02	.00	.00
25	.00	---	---	---	---	.00	.00	.01	.00	.00	.00	.00
26	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
27	.00	---	---	---	---	.01	.00	.00	.00	.00	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
29	.00	---	---	---	---	.01	.00	.10	.00	.00	.00	.00
30	.00	---	---	---	---	.00	.00	.02	.00	.00	.00	.00
31	.01	---	---	---	---	.00	---	.00	---	.04	.01	---
TOTAL	0.01	---	---	---	---	---	0.01	0.30	0.12	0.21	0.32	0.17
MEAN	.000	---	---	---	---	---	.000	.010	.004	.007	.010	.006
MAX	.01	---	---	---	---	---	.01	.10	.08	.10	.13	.11
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.02	---	---	---	---	---	.02	.6	.2	.4	.6	.3

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, 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 Blvd. in Albuquerque.

DRAINAGE AREA.--

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, 18 ft³/s, July 21, 1991, gage height, 0.58 ft, from rating curve extended above 7.0 ft³/s on basis of theoreteral rating for open box culvert; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14 ft³/s, at 0935 hours July 23, gage height, 0.46 ft, from rating curve extended above 7.0 ft³/s on basis of theoreteral rating for open box culvert; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
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	.02	.00
6	.00	.00	---	---	---	---	.00	.00	.03	.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	.01	.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
14	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
15	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
16	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
17	.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	.00	.00	.00
22	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
23	.00	---	---	---	---	.00	.00	.00	.00	.07	.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	.08	.00	.00	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	---	---	---	---	---	0.00	0.08	0.03	0.07	0.03	0.00
MEAN	.000	---	---	---	---	---	.000	.003	.001	.002	.001	.000
MAX	.00	---	---	---	---	---	.00	.08	.03	.07	.02	.00
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	.2	.06	.1	.06	.00
(†)	0.0						0.11	1.45	0.60	1.34	2.17	0.91

(†) 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.

DRAINAGE AREA.--

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, 11 ft³/s, July 21, 1991, gage height, 1.44 ft; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10 ft³/s, at 1850 hours May 29, gage height, 1.40 ft; no flow most of the time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
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	.06	.00
6	.00	.00	---	---	---	---	.00	.00	.11	.00	.00	e.00
7	.00	.00	---	---	---	---	.00	.00	.03	.00	.00	e.00
8	.00	.00	---	---	---	---	.00	.00	.04	.00	.00	e.00
9	.00	.00	---	---	---	---	.00	.00	.00	.01	.00	e.00
10	.00	.00	---	---	---	---	.00	.08	.00	.00	.10	e.00
11	.00	.00	---	---	---	---	.00	.04	.00	.00	.05	.00
12	.00	.00	---	---	---	---	.00	.02	.00	.00	.00	.00
13	.00	---	---	---	---	---	.01	.00	.00	.00	.00	.00
14	.00	---	---	---	---	---	.08	.00	.00	.00	.00	.00
15	.00	---	---	---	---	---	.06	.00	.00	.00	.00	.07
16	.00	---	---	---	---	---	.04	.00	.00	.00	.00	.00
17	.00	---	---	---	---	---	.02	.00	.00	.00	.00	.00
18	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
19	.00	---	---	---	---	---	.00	.02	.00	.00	.00	.03
20	.00	---	---	---	---	---	.00	.09	.00	.00	.00	.00
21	.00	---	---	---	---	---	.00	.06	.00	.00	.00	.00
22	.00	---	---	---	---	---	.00	.11	.00	.00	.01	.00
23	.00	---	---	---	---	---	.00	.04	.00	.07	.01	.00
24	.00	---	---	---	---	.00	.00	.02	.00	.01	.00	.00
25	.00	---	---	---	---	.00	.00	.01	.00	.00	.00	.00
26	.00	---	---	---	---	.00	.00	.05	.00	.00	.00	.00
27	.00	---	---	---	---	.00	.00	.02	.00	.00	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
29	.00	---	---	---	---	.00	.00	.20	.00	.00	.00	.00
30	.00	---	---	---	---	.00	.00	.03	.00	.00	.01	.00
31	.00	---	---	---	---	.00	---	.00	---	.03	.00	---
TOTAL	0.00	---	---	---	---	---	0.21	0.79	0.18	0.12	0.24	0.10
MEAN	.000	---	---	---	---	---	.007	.025	.006	.004	.008	.003
MAX	.00	---	---	---	---	---	.08	.20	.11	.07	.10	.07
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.4	1.6	.4	.2	.5	.2

e Estimated

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.--

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, 15 ft³/s, at 1850 hours May 29, gage height, 1.47 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
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	.01	.00	.18	.00
6	.00	.00	---	---	---	---	.00	.00	.09	.00	.00	.00
7	.00	.00	---	---	---	---	.00	.00	.02	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	.05	.00	.00	.00
9	.00	.00	---	---	---	---	.00	.00	.00	.03	.00	.00
10	.00	.00	---	---	---	---	.00	.04	.00	.02	.30	.00
11	.00	.00	---	---	---	---	.00	.00	.00	.00	.05	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
13	.00	---	---	---	---	---	.01	.00	.00	.00	.00	.00
14	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
15	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.24
16	.00	---	---	---	---	---	.00	.00	.00	.00	.00	e.00
17	.00	---	---	---	---	---	.00	.00	.00	.00	.00	e.00
18	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	e.00
19	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.18
20	.00	---	---	---	---	.00	.00	.03	.00	.00	.00	e.00
21	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	e.00
22	.00	---	---	---	---	.00	.00	.11	.00	.00	.17	e.00
23	.00	---	---	---	---	.00	.00	.00	.00	.09	.00	e.00
24	.00	---	---	---	---	.00	.00	.01	.00	.03	.00	e.00
25	.00	---	---	---	---	.00	.00	.02	.00	.00	.00	e.00
26	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	e.00
27	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	e.00
28	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	e.00
29	.00	---	---	---	---	.00	.00	.22	.00	.00	.00	e.00
30	.00	---	---	---	---	.00	.00	.01	.00	.00	.05	e.00
31	.00	---	---	---	---	.00	---	.00	---	.05	.00	---
TOTAL	0.00	---	---	---	---	---	0.01	0.44	0.17	0.22	0.75	0.42
MEAN	.000	---	---	---	---	---	.000	.014	.006	.007	.024	.014
MAX	.00	---	---	---	---	---	.01	.22	.09	.09	.30	.24
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.02	.9	.3	.4	1.5	.8

e Estimated

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 13020203, on right bank of concrete-lined drainage channel, 300 ft downstream (north) of bridge on Candelaria Blvd. NE, and 3,000 ft downstream from confluence of Campus Wash and Embudo Arroyo in Albuquerque.

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.

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, 1,350 ft³/s, at 1530 hours Aug. 6, gage height, 4.95 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	e.00	4.4	14	.00	4.8	.00
2	1.0	.00	---	---	---	---	.00	3.0	.00	.00	.00	.00
3	.00	.00	---	---	---	---	e.00	4.3	.00	.00	.00	.00
4	.00	1.7	---	---	---	---	e.00	.00	.00	.00	.00	.00
5	.00	.00	---	---	---	---	5.4	.00	.00	.00	.00	.00
6	.00	.00	---	---	---	---	e.00	24	36	.00	141	.00
7	.00	.00	---	---	---	---	e.00	e40	8.9	1.7	.00	.00
8	.00	.00	---	---	---	---	.00	e.00	18	.00	.00	.00
9	.00	.00	---	---	---	---	.00	e12	.00	30	.00	.00
10	.00	.00	---	---	---	---	.00	e5.0	.00	29	.00	.00
11	.00	14	---	---	---	---	.00	e.00	.00	.00	93	.00
12	.00	.00	---	---	---	---	.00	.00	.00	4.3	49	.00
13	.00	---	---	---	---	---	11	.00	.00	.00	.00	.00
14	.00	---	---	---	---	---	15	.00	.00	.00	.00	3.1
15	.00	---	---	---	---	---	.00	.00	.00	.00	.00	103
16	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
17	2.5	---	---	---	---	---	.00	15	.00	.00	.00	.00
18	2.8	---	---	---	---	---	.00	5.2	.00	.00	.00	.00
19	.00	---	---	---	---	---	1.9	23	.00	.00	.00	93
20	.00	---	---	---	---	---	9.9	30	.00	.00	.00	.00
21	.00	---	---	---	---	---	2.0	4.9	.00	.00	36	.00
22	.00	---	---	---	---	---	.00	59	.00	.00	.00	.00
23	.00	---	---	---	---	---	.00	11	.00	57	.00	.00
24	.00	---	---	---	---	---	.00	.00	.00	19	53	.00
25	.00	---	---	---	---	---	1.3	13	.00	.85	.00	.00
26	.00	---	---	---	---	---	.00	2.1	.00	3.5	.00	.00
27	.00	---	---	---	---	9.9	1.7	.00	.00	.00	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
29	.00	---	---	---	---	1.3	.00	57	.00	.00	.00	.00
30	2.4	---	---	---	---	3.6	6.9	3.5	.00	.00	.00	.00
31	4.1	---	---	---	---	8.6	---	.00	---	44	.00	---
TOTAL	12.80	---	---	---	---	---	55.10	316.40	76.90	189.35	376.80	199.10
MEAN	.41	---	---	---	---	---	1.84	10.2	2.56	6.11	12.2	6.64
MAX	4.1	---	---	---	---	---	15	59	36	57	141	103
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	25	---	---	---	---	---	109	628	153	376	747	395

e Estimated

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, 300 ft above Louisiana Boulevard on left bank, 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 September 1983, June to September 1992 (no winter records).

GAGE.--Water-stage recorder and concrete lined channel. Elevation of gage is 5,298 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.--Water-discharge records good. Recording rain gage at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 478 ft³/s, Aug. 14, 1980, and Aug. 1, 1982, gage height, 1.84 ft, from step-backwater analysis of concrete lined stream channel; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 366 ft³/s, at 1535 hours, July 23, gage height, 3.48 ft; no flow most of time; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	.00	.00	.00
2	---	---	---	---	---	---	---	---	---	.00	.00	.00
3	---	---	---	---	---	---	---	---	---	.00	.00	.00
4	---	---	---	---	---	---	---	---	---	.00	.00	.00
5	---	---	---	---	---	---	---	---	---	.00	.00	.00
6	---	---	---	---	---	---	---	---	---	.00	4.9	.00
7	---	---	---	---	---	---	---	---	---	.00	.00	.00
8	---	---	---	---	---	---	---	---	---	.00	.00	.00
9	---	---	---	---	---	---	---	---	---	2.4	.00	.00
10	---	---	---	---	---	---	---	---	---	2.0	.00	.00
11	---	---	---	---	---	---	---	---	---	.51	.00	.00
12	---	---	---	---	---	---	---	---	.00	.58	.00	.00
13	---	---	---	---	---	---	---	---	.00	.00	.00	.00
14	---	---	---	---	---	---	---	---	.00	.00	.00	.00
15	---	---	---	---	---	---	---	---	.51	.00	.00	6.5
16	---	---	---	---	---	---	---	---	.00	.00	.00	.00
17	---	---	---	---	---	---	---	---	.00	.00	.00	.00
18	---	---	---	---	---	---	---	---	.00	.00	.00	.00
19	---	---	---	---	---	---	---	---	.00	.00	.00	5.2
20	---	---	---	---	---	---	---	---	.00	.00	.00	.00
21	---	---	---	---	---	---	---	---	.00	.00	.00	.00
22	---	---	---	---	---	---	---	---	.00	.00	.00	.00
23	---	---	---	---	---	---	---	---	.00	14	.00	.00
24	---	---	---	---	---	---	---	---	.00	2.6	.00	.00
25	---	---	---	---	---	---	---	---	.00	.00	.00	.00
26	---	---	---	---	---	---	---	---	.00	.00	.00	.00
27	---	---	---	---	---	---	---	---	.00	.00	.00	.00
28	---	---	---	---	---	---	---	---	.00	.00	.00	.00
29	---	---	---	---	---	---	---	---	.00	.00	.00	.00
30	---	---	---	---	---	---	---	---	.00	.00	.00	.00
31	---	---	---	---	---	---	---	---	---	3.1	.00	---
TOTAL	---	---	---	---	---	---	---	---	---	25.19	4.90	11.70
MEAN	---	---	---	---	---	---	---	---	---	.81	.16	.39
MAX	---	---	---	---	---	---	---	---	---	14	4.9	6.5
MIN	---	---	---	---	---	---	---	---	---	.00	.00	.00
AC-FT	---	---	---	---	---	---	---	---	---	.50	9.7	.23
(†)	0.39	---	---	---	---	---	0.15	2.80	1.00	1.99	2.59	0.91

(†) 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 13020203, 200 ft above Louisiana Boulevard on right bank, 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 September 1983, June to September 1992 (no winter records).

GAGE.--Water-stage recorder and concrete lined channel. Elevation of gage is 5,286 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to 1983 at site 200 ft downstream to Louisiana Boulevard bridge, at different datum.

REMARKS.--Water-discharge records good. 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, 2.5 ft³/s, at 1550 hours, July 23, gage height, 1.24 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	.00	.00	.00
2	---	---	---	---	---	---	---	---	---	.00	.00	.00
3	---	---	---	---	---	---	---	---	---	.00	.00	.00
4	---	---	---	---	---	---	---	---	---	.00	.00	.00
5	---	---	---	---	---	---	---	---	---	.00	.00	.00
6	---	---	---	---	---	---	---	---	---	.00	.04	.00
7	---	---	---	---	---	---	---	---	---	.00	.00	.00
8	---	---	---	---	---	---	---	---	---	.00	.00	.00
9	---	---	---	---	---	---	---	---	---	.00	.00	.00
10	---	---	---	---	---	---	---	---	---	.00	.00	.00
11	---	---	---	---	---	---	---	---	---	.00	.07	.00
12	---	---	---	---	---	---	---	---	.00	.00	.02	.00
13	---	---	---	---	---	---	---	---	.00	.00	.00	.00
14	---	---	---	---	---	---	---	---	.00	.00	.00	.00
15	---	---	---	---	---	---	---	---	.00	.00	.00	.04
16	---	---	---	---	---	---	---	---	.00	.00	.00	.00
17	---	---	---	---	---	---	---	---	.00	.00	.00	.00
18	---	---	---	---	---	---	---	---	.00	.00	.00	.00
19	---	---	---	---	---	---	---	---	.00	.00	.00	.01
20	---	---	---	---	---	---	---	---	.00	.00	.01	.00
21	---	---	---	---	---	---	---	---	.00	.00	.00	.00
22	---	---	---	---	---	---	---	---	.00	.00	.00	.00
23	---	---	---	---	---	---	---	---	.00	.05	.00	.00
24	---	---	---	---	---	---	---	---	.00	.00	.01	.00
25	---	---	---	---	---	---	---	---	.00	.00	.00	.00
26	---	---	---	---	---	---	---	---	.00	.00	.00	.00
27	---	---	---	---	---	---	---	---	.00	.00	.00	.00
28	---	---	---	---	---	---	---	---	.00	.00	.00	.00
29	---	---	---	---	---	---	---	---	.00	.00	.00	.00
30	---	---	---	---	---	---	---	---	.00	.00	.00	.00
31	---	---	---	---	---	---	---	---	---	.01	.01	---
TOTAL	---	---	---	---	---	---	---	---	---	0.06	0.16	0.05
MEAN	---	---	---	---	---	---	---	---	---	.002	.005	.002
MAX	---	---	---	---	---	---	---	---	---	.05	.07	.04
MIN	---	---	---	---	---	---	---	---	---	.00	.00	.00
AC-FT	---	---	---	---	---	---	---	---	---	.1	.3	.1
(†)	0.19						0.40	2.59	1.33	1.95	2.02	0.90

(†) Total rainfall accumulation in inches.

RIO GRANDE BASIN

08329840 HAHN ARROYO AT ALBUQUERQUE, NM

LOCATION.--Lat 35°07'31", Long 106°35'10", in SE¼NE¼ sec.2, T.10 N., R.3 E., Bernalillo County, Hydrologic Unit 13020203, on downstream side of San Mateo Boulevard Bridge, 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 concrete-lined channel. Elevation of gage is 5,190 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. 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, 372 ft³/s, at 1835 hours May 29, gage height, 1.80 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 1991 TO SEPTEMBER 1992
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	.00	.00	.00	.00	.00
6	.00	---	---	---	---	---	.00	.00	3.7	.00	2.0	.00
7	.00	---	---	---	---	---	.00	2.8	.00	.00	.00	.00
8	.00	---	---	---	---	---	.00	.00	2.9	.00	.00	.00
9	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
10	.00	---	---	---	---	---	.00	.00	.00	1.2	.00	.00
11	.00	---	---	---	---	---	.00	.00	.00	.00	.00	2.9
12	.00	---	---	---	---	---	.00	.00	.00	.00	3.1	.00
13	.00	---	---	---	---	---	.61	.00	.00	.00	.00	.00
14	.00	---	---	---	---	---	.28	.00	.00	.00	.00	2.1
15	.00	---	---	---	---	---	.00	.00	.00	.00	.00	12
16	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
17	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	---	.00	.00	.00	.00	.70	.00
19	.00	---	---	---	---	---	.00	.00	.00	.00	.00	8.1
20	.00	---	---	---	---	.00	.00	1.3	.00	.00	2.7	.00
21	.00	---	---	---	---	.00	.00	.00	.00	.00	2.4	.00
22	.00	---	---	---	---	.00	.00	4.8	.00	.00	.00	.00
23	.00	---	---	---	---	.00	.00	.00	.00	3.7	.00	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.00	5.4	.00
25	.00	---	---	---	---	.00	.00	.12	.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	10	.00	.00	.00	.00
30	.07	---	---	---	---	.00	.00	.85	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.00	2.5	---
TOTAL	0.07	---	---	---	---	---	0.89	19.87	6.60	4.90	18.80	25.10
MEAN	.002	---	---	---	---	---	.030	.64	.22	.16	.61	.84
MAX	.07	---	---	---	---	---	.61	10	3.7	3.7	5.4	12
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.1	---	---	---	---	---	1.8	39	13	9.7	37	50
(†)	0.06	---	---	---	---	---	0.40	2.00	0.76	1.64	2.27	0.93

(†) 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 Louisiana Boulevard NE in Albuquerque.

DRAINAGE AREA.--0.052 mi².

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 good. 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, 7.2 ft³/s, at 1435 hours July 25, gage height, 1.59 ft, from rating curve extended above 5.0 ft³/s on basis of slope-area measurement at gage height 2.08; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.5 ft³/s, at 1840 hours May 29, gage height, 1.80 ft. No flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
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	.00	.00	.00	.00	.00
6	.00	---	---	---	---	---	.00	.00	.03	.00	.06	.00
7	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
8	.00	---	---	---	---	---	.00	.00	.07	.00	.00	.00
9	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
10	.00	---	---	---	---	---	.00	.01	.00	.03	.00	.00
11	.00	---	---	---	---	---	.00	.00	.00	.00	.23	.00
12	.00	---	---	---	---	---	.00	.00	.00	.00	.08	.00
13	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
14	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
15	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.11
16	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
17	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
19	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.05
20	.00	---	---	---	---	---	.00	.01	.00	.00	.00	.00
21	.00	---	---	---	---	---	.00	.01	.00	.00	.00	.00
22	.00	---	---	---	---	---	.00	.05	.00	.00	.00	.00
23	.00	---	---	---	---	---	.00	.00	.00	.02	.00	.00
24	.00	---	---	---	---	---	.00	.00	.00	.00	.04	.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	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
29	.00	---	---	---	---	.00	.00	.24	.00	.00	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.00	.03	---
TOTAL	0.00	---	---	---	---	---	0.00	0.32	0.10	0.05	0.44	0.16
MEAN	.000	---	---	---	---	---	.000	.010	.003	.002	.014	.005
MAX	.00	---	---	---	---	---	.00	.24	.07	.03	.23	.11
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	.6	.2	.1	.9	.3

RIO GRANDE BASIN

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, at intersection of Burlison Drive and Leander Avenue, 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. 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, 18 ft³/s, at 0130 hours May 22, gage height, 2.67 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	---	---	---	---	---	.00	.00	.03	.00	.00	.00
2	.00	---	---	---	---	---	.00	.00	.01	.00	.00	.00
3	.00	---	---	---	---	---	.00	.00	.01	.00	.00	.00
4	.00	---	---	---	---	---	.00	.00	.01	.00	.00	.01
5	.00	---	---	---	---	---	.00	.00	.00	.00	.28	.00
6	.00	---	---	---	---	---	.00	.00	.10	.00	.01	.00
7	.00	---	---	---	---	---	.00	.00	.05	.00	.00	.00
8	.00	---	---	---	---	---	.00	.00	.09	.00	.00	.00
9	.00	---	---	---	---	---	.00	.03	.01	.02	.00	.00
10	.00	---	---	---	---	---	.00	.06	.00	.02	.51	.00
11	.00	---	---	---	---	---	.00	.00	.00	.00	.19	.00
12	.00	---	---	---	---	---	.00	.00	.00	.02	.00	.00
13	.00	---	---	---	---	---	.02	.00	.00	.00	.00	.00
14	.00	---	---	---	---	---	.01	.00	.00	.00	.00	.00
15	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.37
16	.00	---	---	---	---	---	.00	.00	.00	.00	.01	.00
17	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	---	.00	.00	.00	.00	.01	.00
19	.00	---	---	---	---	---	.00	.00	.00	.00	.01	.18
20	.00	---	---	---	---	---	.00	.05	.00	.00	.00	.01
21	.00	---	---	---	---	---	.00	.02	.00	.00	.00	.00
22	.00	---	---	---	---	---	.00	.29	.00	.00	.02	.00
23	.00	---	---	---	---	---	.00	.01	e.00	.12	.16	.00
24	.00	---	---	---	---	---	.00	.00	e.00	.04	.00	.00
25	.00	---	---	---	---	---	.00	.03	.00	.00	.00	.00
26	.00	---	---	---	---	---	.00	.01	.00	.00	.00	.00
27	.00	---	---	---	---	.03	.00	.00	.00	.00	.00	.00
28	.00	---	---	---	---	.01	.00	.00	.00	.00	.00	.00
29	.00	---	---	---	---	.03	.00	.23	.00	.00	.00	.00
30	.05	---	---	---	---	.01	.00	.04	.00	.00	.00	.00
31	.01	---	---	---	---	.00	---	.00	---	.13	.09	---
TOTAL	0.06	---	---	---	---	---	0.03	0.77	0.31	0.35	1.29	0.57
MEAN	.002	---	---	---	---	---	.001	.025	.010	.011	.042	.019
MAX	.05	---	---	---	---	---	.02	.29	.10	.13	.51	.37
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.1	---	---	---	---	---	.06	1.5	.6	.7	2.6	1.1

e Estimated

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 left bank 0.5 mi upstream from Edith Blvd., 1.1 mi upstream from mouth, and 1.2 mi northeast of Alameda.

PERIOD OF RECORD.--July 1968 to current year (no winter records in water years 1969-89).

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 good. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	e5.0	e20	.00	60	4.7
2	e.70	.00	.00	.00	.00	.00	.00	e3.2	.00	.00	.00	.00
3	e.10	.00	.00	.00	.00	e5.0	.00	e4.1	.00	.00	.00	.00
4	.00	e1.0	.00	.00	.00	e10	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	e5.6	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	e30	49	.00	211	.00
7	.00	.00	.00	.00	.00	.00	.00	78	15	3.3	47	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	e25	3.8	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	e10	.00	47	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	e3.0	e.10	116	.00	.00
11	.00	e18	151	.00	.00	.00	.00	.00	e.10	28	512	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	18	354	.00
13	.00	.00	.00	e10	.00	.00	e12	.00	.00	12	.00	.00
14	.00	e50	.00	e15	.00	.00	e16	.00	.00	.00	.00	9.1
15	.00	300	.00	e5.0	.00	.00	.00	.00	.00	.00	.00	209
16	.00	111	.00	.00	.00	.00	.00	.00	.00	.00	3.8	.00
17	e2.4	.00	.00	.00	.00	.00	.00	12	.00	.00	2.1	.00
18	e2.6	.00	.00	.00	.00	.00	.00	19	.00	.00	.00	.00
19	.00	.00	e15	.00	.00	.00	e1.5	34	.00	.00	.00	130
20	.00	.00	.00	.00	.00	.00	e10	55	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	e1.5	18	.00	.00	81	.00
22	.00	.00	.00	.00	.00	.00	.00	118	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	36	.00	266	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	104	162	.00
25	.00	.00	.00	.00	.00	.00	e1.1	27	.00	78	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	19	e.20	47	.00	.00
27	.00	.00	.00	.00	.00	e10	e1.5	.43	e.10	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.2	.00
29	.00	.00	.00	.00	.00	e1.1	.00	180	.00	.00	.00	.00
30	e3.0	.00	.00	.00	.00	e3.5	e7.1	55	.00	.00	.00	.00
31	e5.0	---	.00	.00	---	e8.7	---	.00	---	53	5.2	---
TOTAL	13.80	480.00	166.00	30.00	0.00	38.30	56.30	706.73	109.50	776.10	1440.30	352.80
MEAN	.45	16.0	5.35	.97	.000	1.24	1.88	22.8	3.65	25.0	46.5	11.8
MAX	5.0	300	151	15	.00	10	16	180	49	266	512	209
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	27	952	329	60	.00	76	112	1400	217	1540	2860	700

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1992, BY WATER YEAR (WY)

	MEAN	10.4	4.52	1.19	.29	.44	3.62	6.17	7.54	7.08	20.8	22.7	12.7
MAX	38.1	17.3	5.35	1.61	2.07	14.0	28.4	22.8	36.1	75.0	51.9	40.1	
(WY)	1985	1988	1992	1973	1973	1973	1988	1992	1988	1991	1991	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1968 - 1992
ANNUAL TOTAL	6755.50	4169.83	
ANNUAL MEAN	18.5	11.4	8.35
HIGHEST ANNUAL MEAN			17.6
LOWEST ANNUAL MEAN			3.12
HIGHEST DAILY MEAN	570	512	1060
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		4870	a11000
INSTANTANEOUS PEAK STAGE		6.19	10.4
ANNUAL RUNOFF (AC-FT)	13400	8270	6050
10 PERCENT EXCEEDS	44	18	20
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

a-From rating curve extended above 2,900 ft³/s.

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1982-83, 1991.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)*	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)*	
OCT	03...	1433	--	--	0.57	444	9.5	28.5	29.0	632	--	33	<1.0
NOV	14...	1709	--	--	150	256	8.4	14.0	12.0	627	--	--	--
	14...	1802	--	--	208	188	8.0	13.0	12.5	627	7.0	--	--
	15...	1643	--	--	1950	102	8.3	9.0	9.5	631	9.4	--	--
	15...	1904	--	--	2700	66	8.8	8.5	7.5	633	--	83	--
DEC	11...	1505	--	--	1240	100	--	--	6.5	--	--	--	--
FEB	05...	1448	--	--	0.96	487	9.7	12.0	17.0	630	10.6	20	1.0
MAY	20...	1410	--	--	168	536	11.4	21.0	23.5	--	--	170	--
	22...	0230	--	--	1280	--	--	--	--	--	--	140	--
MAY	22-22	0230	0600	586	--	--	--	--	--	--	--	--	--
	29...	2000	--	--	2320	--	8.5	--	--	--	--	160	--
MAY	29-29	2015	2245	887	--	--	--	--	--	--	--	--	--
JUL	23...	1400	--	--	0.93	563	9.6	31.0	35.0	--	5.0	74	12
JUL	23-23	1630	1930	1410	--	--	--	--	--	--	--	--	--
	23...	1635	--	--	2360	74	8.7	--	20.5	--	--	330	32
	31...	2200	--	--	590	138	7.8	--	21.0	--	--	--	--
JUL	31-												
AUG	01	2200	0100	406	--	--	--	--	--	--	--	200	46
	06...	1715	--	--	2400	70	7.8	--	25.0	--	--	--	--
AUG	06-06	1715	2015	1260	--	--	--	--	--	--	--	220	--
SEP	15-15	0211	0232	811	--	148	7.1	--	21.0	--	--	--	--
SEP	15-15	0230	0700	661	--	--	--	--	--	--	--	240	45
SEP	19-19	0946	1012	458	--	120	7.1	--	20.0	--	--	--	--
SEP	19-19	1024	1320	320	--	--	--	--	--	--	--	180	38

* Analyses performed by City of Albuquerque Water Quality Laboratory

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)*	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	STREP-TOCOCCI 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)
OCT 03...	--	--	--	--	130	44	3.9	40	2	5.4	115	59
NOV 14...	--	--	--	--	82	28	2.9	20	1	6.9	108	20
14...	--	--	--	--	79	28	2.3	12	0.6	6.5	158	11
15...	--	--	--	--	45	16	1.3	5.6	0.4	4.4	105	5.8
15...	--	--	--	--	23	8.3	0.67	2.4	0.2	3.1	25	4.1
DEC 11...	--	--	--	--	35	13	0.72	5.3	0.4	2.0	60	3.7
FEB 05...	--	--	--	--	140	47	4.3	41	2	5.2	136	52
MAY 20...	--	--	--	--	190	75	0.06	11	0.3	4.4	105	23
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 22-22	--	--	--	--	33	12	0.70	3.2	0.2	1.7	89	6.1
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 29-29	--	--	--	--	27	9.5	0.74	2.7	0.2	2.0	61	5.2
JUL 23...	--	K880	K67	--	160	57	3.5	56	2	7.8	123	93
JUL 23-23	--	--	--	--	32	11	1.0	3.4	0.3	3.1	87	6.1
23...	>60000	--	--	9000	--	--	--	--	--	--	--	--
31...	22000	--	--	140000	--	--	--	--	--	--	--	--
JUL 31-	--	--	--	--	--	--	--	--	--	--	--	--
AUG 01	--	--	--	--	50	18	1.3	7.3	0.4	3.5	70	12
06...	>60000	--	--	900000	--	--	--	--	--	--	--	--
AUG 06-06	--	--	--	--	27	9.4	0.75	3.1	0.3	2.3	91	5.1
SEP 15-15	--	--	--	160000	--	--	--	--	--	--	--	--
SEP 15-15	--	--	--	--	37	13	0.98	4.5	0.3	2.7	49	7.3
SEP 19-19	>80000	--	--	240000	--	--	--	--	--	--	--	--
SEP 19-19	--	--	--	--	37	13	1.0	4.4	0.3	2.3	64	7.0

* Analyses performed by City of Albuquerque Water Quality Laboratory

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	CHLO- RINE, TOTAL RESI- DUAL (MG/L) (50060)	CHLO- RIDE, DIS- SOLVED (MG/L) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L) (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)	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)
OCT 03...	--	31	0.90	38	290	291	--	--	--	<0.010	<0.010	<0.050
NOV 14...	<0.01	16	0.40	14	194	173	--	0.070	--	0.060	--	0.130
14...	<0.01	9.7	0.30	8.7	173	173	--	0.170	--	0.120	--	0.290
15...	<0.01	6.0	0.20	3.2	80	105	--	0.250	--	0.090	--	0.340
15...	<0.01	2.6	<0.10	1.8	16	39	--	0.140	0.140	0.050	0.030	0.190
DEC 11...	--	6.2	0.20	3.0	63	70	--	--	--	--	--	--
FEB 05...	--	42	--	--	300	273	1	--	--	<0.010	--	<0.050
MAY 20...	<0.01	9.5	--	--	273	186	449	0.290	--	0.050	--	0.340
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 22-22	0.07	2.3	--	--	112	79	131	0.340	--	0.030	--	0.370
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 29-29	<0.01	2.4	--	--	74	59	388	0.510	--	0.050	--	0.560
JUL 23...	<0.01	46	--	--	402	337	18	--	--	<0.010	--	<0.050
JUL 23-23	<0.01	3.6	--	--	72	80	1810	0.610	--	0.030	--	0.640
23...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 31- AUG 01	<0.01	5.8	--	--	127	90	136	0.800	--	0.070	--	0.870
06...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 06-06	<0.01	3.0	--	--	66	78	362	0.410	--	0.030	--	0.440
SEP 15-15	--	--	--	--	--	--	--	--	--	--	--	--
SEP 15-15	--	4.7	--	--	65	63	86	0.330	--	0.050	--	0.380
SEP 19-19	--	--	--	--	--	--	--	--	--	--	--	--
SEP 19-19	--	3.9	--	--	79	70	141	0.390	--	0.050	--	0.440

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	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)
OCT 03...	<0.050	0.040	0.020	1.1	1.1	--	0.090	<0.010	0.020	<0.010	11
NOV 14...	--	0.100	--	1.4	1.5	1.6	0.380	--	0.090	--	40
14...	--	0.050	--	4.8	4.8	5.1	1.40	--	0.270	--	40
15...	--	0.220	--	1.7	1.9	2.2	0.560	--	0.240	--	48
15...	0.170	0.120	0.150	0.68	0.80	0.99	0.360	0.190	0.190	0.140	21
DEC 11...	--	--	--	--	--	--	--	--	--	--	--
FEB 05...	--	0.010	--	0.39	0.40	--	0.290	0.050	--	--	6.3
MAY 20...	--	0.130	--	3.0	3.1	3.4	0.990	0.100	--	--	46
22...	--	--	--	--	--	--	--	--	--	--	--
MAY 22-22	--	0.070	--	1.7	1.8	2.2	0.570	0.120	--	--	33
29...	--	--	--	--	--	--	--	--	--	--	--
MAY 29-29	--	0.200	--	1.0	1.2	1.8	0.350	0.170	--	--	48
JUL 23...	--	0.050	--	1.7	1.8	--	0.140	0.040	--	--	24
JUL 23-23	--	0.230	--	0.87	1.1	1.7	0.490	0.230	--	--	54
23...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
JUL 31-	--	--	--	--	--	--	--	--	--	--	--
AUG 01	--	0.500	--	1.7	2.2	3.1	0.440	0.270	--	--	44
06...	--	--	--	--	--	--	--	--	--	--	--
AUG 06-06	--	0.180	--	0.72	0.90	1.3	0.260	0.190	--	--	--
SEP 15-15	--	--	--	--	--	--	--	--	--	--	--
SEP 15-15	--	0.430	--	1.5	1.9	2.3	0.450	0.280	--	--	36
SEP 19-19	--	--	--	--	--	--	--	--	--	--	--
SEP 19-19	--	0.230	--	1.1	1.3	1.7	0.360	0.190	--	--	28

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV- GRAVI- METRIC (MG/L) (00556)	ANTI- MONY, TOTAL (UG/L AS SB) (01097)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	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)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
OCT 03...	<0.010	1	<1	<1	6	--	<10	<1	2	8	--
NOV 14...	--	--	--	--	3	200	--	<1	4	--	4400
14...	--	--	--	--	3	500	--	2	24	--	18000
15...	<0.010	--	--	--	2	300	--	2	19	--	16000
15...	--	--	<1	1	2	--	<10	1	13	--	--
DEC 11...	<0.010	--	--	--	1	100	--	1	10	--	5900
FEB 05...	<0.010	2	<1	--	8	--	<10	<1	1	11	--
MAY 20...	0.010	7	5	--	7	--	<10	1	24	19	--
22...	<0.010	3	4	--	--	--	--	--	--	--	--
MAY 22-22	--	--	--	--	2	--	<10	<1	4	8	--
29...	<0.010	5	2	--	--	--	--	--	--	--	--
MAY 29-29	--	--	--	--	3	--	<10	1	8	16	--
JUL 23...	<0.010	1	<1	--	12	--	<10	<1	<1	7	--
JUL 23-23	--	--	--	--	6	--	<10	1	16	37	--
23...	<0.010	7	2	--	--	--	--	--	--	--	--
31...	<0.010	8	3	--	--	--	--	--	--	--	--
JUL 31- AUG 01	--	--	--	--	3	--	<10	<1	5	14	--
AUG 06...	<0.010	7	2	--	--	--	--	--	--	--	--
AUG 06-06	--	--	--	--	4	--	<10	1	7	15	--
SEP 15-15	<0.010	8	<1	--	--	--	--	--	--	--	--
SEP 15-15	--	--	--	--	4	--	<10	<1	3	10	--
SEP 19-19	<0.010	8	<1	--	--	--	--	--	--	--	--
SEP 19-19	--	--	--	--	3	--	<10	<1	4	24	--

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	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, 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 03...	4	--	<0.10	<1	<1	1	--	20	18	0.03	--
NOV 14...	--	210	<0.10	--	--	--	--	100	--	--	--
14...	--	700	0.10	--	--	--	--	460	768	431	72
15...	--	570	0.10	--	--	--	--	290	--	--	--
15...	--	--	--	15	<1	2	--	160	--	--	--
DEC 11...	68	240	0.20	--	--	--	--	160	--	--	--
FEB 05...	2	--	<0.10	2	<2	<1	<200	20	13	0.03	87
MAY 20...	72	--	<0.10	17	<2	<1	--	210	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
MAY 22-22	23	--	<0.10	4	<2	<1	<10	80	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
MAY 29-29	55	--	<0.10	10	<2	<1	<10	160	--	--	--
JUL 23...	1	--	0.20	1	1	<1	<5	10	22	0.05	--
JUL 23-23	96	--	0.20	22	<1	<1	<5	210	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
JUL 31- AUG 01	34	--	<0.10	4	<1	<1	<5	150	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
AUG 06-06	65	--	<0.10	9	<1	<1	<5	180	--	--	--
SEP 15-15	--	--	--	--	--	--	--	--	--	--	--
SEP 15-15	16	--	0.20	4	<2	<1	<5	100	--	--	--
SEP 19-19	--	--	--	--	--	--	--	--	--	--	--
SEP 19-19	31	--	0.10	5	<2	<1	<10	140	--	--	--

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

[illegible]

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)
OCT 03...	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.01	<5.0	<5.0	<5.0
NOV 14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.01	<5.0	<5.0	<5.0
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 05...	<5.0	<5.0	<20	<20	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
MAY 20...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 22-22	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 29-29	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
JUL 23...	<5.0	<5.0	<20	<20	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
JUL 23-23	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
23...	--	--	<20	<20	--	--	--	--	--	--	--	--
31...	--	--	<20	<20	--	--	--	--	--	--	--	--
JUL 31-												
AUG 01	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
06...	--	--	<20	<20	--	--	--	--	--	--	--	--
AUG 06-06	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
SEP 15-15	--	--	<20	<20	--	--	--	--	--	--	--	--
SEP 15-15	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
SEP 19-19	--	--	<20	<20	--	--	--	--	--	--	--	--
SEP 19-19	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	FLUOR- ANTHENE TOTAL (UG/L) (34376)
OCT 03...	<5.0	<0.20	<0.2	<10.0	<5.0	<5.0	--	--	--	--	<0.2	<5.0
NOV 14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	<5.0	<0.20	<0.2	<10.0	<5.0	<5.0	--	--	--	--	<0.2	<5.0
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 05...	<5.0	<0.20	<0.2	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	<0.2	<5.0
MAY 20...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 22-22	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 29-29	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
JUL 23...	<5.0	<0.20	<0.2	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	<0.2	<5.0
JUL 23-23	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
23...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
31...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
JUL 31-												
AUG 01	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
06...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
AUG 06-06	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
SEP 15-15	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
SEP 15-15	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
SEP 19-19	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
SEP 19-19	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	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)	N-NITRO -SODI- METHY- LAMINE TOTAL (UG/L) (34438)	NITRO- BENZENE TOTAL (UG/L) (34447)
OCT 03...	<5.0	<5.0	<5.0	<10.0	<5.0	<0.2	<0.2	<0.2	<5.0	<5.0	<5.0	<5.0
NOV 14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	<5.0	<5.0	<5.0	<10.0	<5.0	<0.2	<0.2	<0.2	<5.0	<5.0	<5.0	<5.0
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 05...	<5.0	<5.0	<5.0	<10.0	<5.0	<0.2	<0.2	<0.2	<5.0	<5.0	<5.0	<5.0
MAY 20...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 22-22	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 29-29	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
JUL 23...	<5.0	<5.0	<5.0	<10.0	<5.0	<0.2	<0.2	<0.2	<5.0	<5.0	<5.0	<5.0
JUL 23-23	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
23...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
31...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
JUL 31-	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
AUG 01	--	--	--	--	--	<0.2	<0.2	0.4	--	--	--	--
AUG 06...	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
AUG 06-06	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
SEP 15-15	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
SEP 15-15	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
SEP 19-19	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
SEP 19-19	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	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)	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)
OCT 03...	<30.0	<5.0	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<10.0	<10.0
NOV 14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	<30.0	<5.0	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<10.0	<10.0
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 05...	<30.0	<5.0	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<10.0	<10.0
MAY 20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 22...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 22-22	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
MAY 29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 29-29	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
JUL 23...	<30.0	<5.0	<5.0	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<10.0	<10.0
JUL 23-23	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
JUL 23...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
JUL 31...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
JUL 31-												
AUG 01	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
AUG 06...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
AUG 06-06	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
SEP 15-15	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
SEP 15-15	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
SEP 19-19	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
SEP 19-19	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	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)	1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34561)	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)
OCT 03...	<5.0	<0.2	<0.2	<5.0	<10.0	<0.20	<5.0	<5.0	<0.2	<5.0	<5.0	<5.0
NOV 14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	<5.0	<0.2	<0.2	<5.0	<10.0	<0.20	<5.0	<5.0	<0.2	<5.0	<5.0	<5.0
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 05...	<5.0	<0.2	<0.2	<5.0	<10.0	--	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0
MAY 20...	--	--	--	--	--	--	--	--	--	--	--	--
22...	<5.0	--	--	<5.0	--	--	<5.0	<5.0	--	--	--	--
MAY 22-22	--	--	--	--	<10.0	--	--	--	--	<5.0	<5.0	<5.0
29...	<5.0	--	--	<5.0	--	--	<5.0	<5.0	--	--	--	--
MAY 29-29	--	--	--	--	<10.0	--	--	--	--	<5.0	<5.0	<5.0
JUL 23...	<5.0	<0.2	<0.2	<5.0	<10.0	--	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0
JUL 23-23	--	--	--	--	<10.0	--	--	--	--	<5.0	<5.0	<5.0
23...	<5.0	<0.2	<0.2	<5.0	--	--	<5.0	<5.0	<1.0	--	--	--
31...	<0.20	<0.2	<0.2	<0.20	--	--	<0.20	<0.20	<1.0	--	--	--
JUL 31-	--	--	--	--	<10.0	--	--	--	--	<5.0	<5.0	<5.0
AUG 01	--	--	--	--	--	--	--	--	--	<5.0	<5.0	<5.0
AUG 06...	<5.0	<0.2	<0.2	<5.0	--	--	<5.0	<5.0	<1.0	--	--	--
AUG 06-06	--	--	--	--	<10.0	--	--	--	--	<5.0	<5.0	<5.0
SEP 15-15	<5.0	<0.2	<0.2	<5.0	--	--	<5.0	<5.0	<1.0	--	--	--
SEP 15-15	--	--	--	--	<10.0	--	--	--	--	<5.0	<5.0	<5.0
SEP 19-19	<5.0	<0.2	<0.2	<5.0	--	--	<5.0	<5.0	<1.0	--	--	--
SEP 19-19	--	--	--	--	<10.0	--	--	--	--	<5.0	<5.0	<5.0

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	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)	4- NITRO- PHENOL TOTAL (UG/L) (34646)	4,6- DINITRO- -ORTHO- CRESOL TOTAL (UG/L) (34657)
OCT 03...	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0
NOV 14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 05...	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0
MAY 20...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 22-22	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 29-29	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0
JUL 23...	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0
JUL 23-23	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0
23...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 31-												
AUG 01	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0
06...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 06-06	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0
SEP 15-15	--	--	--	--	--	--	--	--	--	--	--	--
SEP 15-15	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0
SEP 19-19	--	--	--	--	--	--	--	--	--	--	--	--
SEP 19-19	<10.0	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)	AROCOR 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)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	PENTA- CHLORO- PHENOL TOTAL (UG/L) (39032)	PER- THANE TOTAL (UG/L) (39034)	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)
OCT 03...	<0.2	<0.1	<5.0	<5.0	<0.2	<0.2	0.14	<30.0	<0.1	--	--	<5.0
NOV 14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	0.33	--	--	--	--	--
15...	<0.2	<0.1	<5.0	<5.0	<0.2	<0.2	0.11	<30.0	<0.1	--	--	13.0
DEC 11...	--	--	--	--	--	--	0.11	--	--	--	--	--
FEB 05...	<0.2	<0.1	<5.0	<5.0	<0.2	<0.2	--	<30.0	--	<0.10	<0.10	<5.0
MAY 20...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	<5.0	--	--	--	--	--	--	--	--
MAY 22-22	--	<0.1	<5.0	--	--	--	--	<30.0	--	<0.10	<0.10	11.0
29...	--	--	--	<5.0	--	--	--	--	--	--	--	--
MAY 29-29	--	<0.1	<5.0	--	--	--	--	<30.0	--	<0.10	<0.10	7.0
JUL 23...	<0.2	<0.1	<5.0	<5.0	<0.2	<0.2	--	<30.0	--	<0.10	<0.10	<5.0
JUL 23-23	--	<0.1	<5.0	--	--	--	--	<30.0	--	<0.10	<0.10	10.0
23...	<0.2	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--
31...	<0.2	--	--	<0.2	<0.2	<0.2	--	--	--	--	--	--
JUL 31- AUG 01	--	<0.1	<5.0	--	--	--	--	<30.0	--	<0.10	<0.10	9.0
06...	<0.2	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--
AUG 06-06	--	<0.1	<5.0	--	--	--	--	<30.0	--	<0.10	<0.10	8.0
SEP 15-15	<0.2	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--
SEP 15-15	--	<0.1	<5.0	--	--	--	--	<30.0	--	<0.10	<0.10	<5.0
SEP 19-19	<0.2	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--
SEP 19-19	--	<0.1	<5.0	--	--	--	--	<30.0	--	<0.10	<0.10	9.0

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	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)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L) (39250)	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)	BETA BENZENE HEXA- CHLOR- IDE TOTAL (UG/L) (39338)	LINDANE TOTAL (UG/L) (39340)
OCT 03...	<5.0	<40.0	<0.2	<0.2	<0.10	--	--	--	<0.010	<0.01	<0.01	<0.010
NOV 14...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
15...	<5.0	<40.0	<0.2	<0.2	<0.10	--	--	--	<0.010	<0.01	<0.01	<0.010
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 05...	<5.0	<40.0	<0.2	<0.2	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030
MAY 20...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 22-22	<5.0	<40.0	--	--	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 29-29	<5.0	<40.0	--	--	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030
JUL 23...	<5.0	<40.0	<0.2	<0.2	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030
JUL 23-23	<5.0	<40.0	--	--	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030
23...	--	--	<0.2	<0.2	--	--	--	--	--	--	--	--
31...	--	--	<0.2	<0.2	--	--	--	--	--	--	--	--
JUL 31-												
AUG 01	<5.0	<40.0	--	--	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030
06...	--	--	<0.2	<0.2	--	--	--	--	--	--	--	--
AUG 06-06	<5.0	<40.0	--	--	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030
SEP 15-15	--	--	<0.2	<0.2	--	--	--	--	--	--	--	--
SEP 15-15	<5.0	<40.0	--	--	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030
SEP 19-19	--	--	<0.2	<0.2	--	--	--	--	--	--	--	--
SEP 19-19	<5.0	<40.0	--	--	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	CHLOR- DANE, TOTAL (UG/L) (39350)	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)	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)
OCT 03...	<0.1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<1	<0.010	<0.010	<0.01
NOV 14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	<0.1	<0.010	<0.010	<0.010	0.010	<0.010	<0.010	<1	<0.010	<0.010	<0.01
DEC 11...	--	--	--	--	--	--	--	--	--	--	--
FEB 05...	<0.1	--	--	--	<0.020	--	<0.060	<2	<0.030	<0.80	--
MAY 20...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
MAY 22-22	<0.1	--	--	--	<0.020	--	<0.060	<2	<0.030	<0.80	--
29...	--	--	--	--	--	--	--	--	--	--	--
MAY 29-29	<0.1	--	--	--	<0.020	--	<0.060	<2	<0.030	<0.80	--
JUL 23...	0.1	--	--	--	<0.020	--	<0.060	<2	<0.030	<0.80	--
JUL 23-23	0.3	--	--	--	<0.020	--	<0.060	<2	<0.030	<0.80	--
23...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
JUL 31-											
AUG 01	<0.1	--	--	--	<0.020	--	<0.060	<2	<0.030	<0.80	--
06...	--	--	--	--	--	--	--	--	--	--	--
AUG 06-06	0.1	--	--	--	<0.020	--	<0.060	<2	<0.030	<0.80	--
SEP 15-15	--	--	--	--	--	--	--	--	--	--	--
SEP 15-15	<0.1	--	--	--	<0.020	--	<0.060	<2	<0.030	<0.80	--
SEP 19-19	--	--	--	--	--	--	--	--	--	--	--
SEP 19-19	<0.1	--	--	--	<0.020	--	<0.060	<2	<0.030	<0.80	--

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	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)	PCB, TOTAL (UG/L) (39516)	HEXA- CHLORO- BENZENE TOTAL (UG/L) (39700)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L) (39702)	MIREX, TOTAL (UG/L) (39755)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L) (77093)
OCT 03...	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	<5.0	<0.01	--
NOV 14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	<5.0	<0.01	--
DEC 11...	--	--	--	--	--	--	--	--	--	--	--
FEB 05...	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	--	<5.0	<5.0	--	<0.2
MAY 20...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	<5.0	--	--
MAY 22-22	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	--	<5.0	--	--	--
29...	--	--	--	--	--	--	--	--	<5.0	--	--
MAY 29-29	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	--	<5.0	--	--	--
JUL 23...	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	--	<5.0	<5.0	--	<0.2
JUL 23-23	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	--	<5.0	--	--	--
23...	--	--	--	--	--	--	--	--	<5.0	--	<0.2
31...	--	--	--	--	--	--	--	--	<0.2	--	<0.2
JUL 31- AUG 01	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	--	<5.0	--	--	--
06...	--	--	--	--	--	--	--	--	<5.0	--	<0.2
AUG 06-06	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	--	<5.0	--	--	--
SEP 15-15	--	--	--	--	--	--	--	--	<5.0	--	<0.2
SEP 15-15	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	--	<5.0	--	--	--
SEP 19-19	--	--	--	--	--	--	--	--	<5.0	--	<0.2
SEP 19-19	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	--	<5.0	--	--	--

RIO GRANDE BASIN

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

[illegible]

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

[illegible]

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.--0.06 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 poor. 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, 19 ft³/s, at 1320 hours Sept. 19, gage height, 1.16 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
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
5	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
6	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
7	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
8	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
9	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
10	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
11	.00	---	---	---	---	---	.00	.00	.00	.00	.19	.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
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	.13
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	0.19	0.13
MEAN	.000	---	---	---	---	---	.000	.000	.000	.000	.006	.004
MAX	.00	---	---	---	---	---	.00	.00	.00	.00	.19	.13
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	.00	.00	.00	.4	.3
(†)	0.56						0.08	1.82	0.41	2.67	2.83	1.47

(†) 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 1,532.0.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	595	483	2050	970	1040	1420	1630	4600	4020	240	796	562
2	440	653	1770	918	944	1410	1900	5150	5090	366	579	369
3	406	905	1710	905	1050	1380	1940	5270	5030	381	455	369
4	346	1080	1360	778	1260	1500	2520	5370	4720	385	557	362
5	297	1150	1120	738	880	1370	2600	5510	3650	384	352	354
6	281	1210	1180	1220	1010	1310	2630	5570	3060	349	434	311
7	257	1390	1240	1170	1150	1170	3030	5650	3570	356	350	293
8	243	1280	1390	905	1150	1190	2990	5710	3750	350	473	289
9	247	1200	1420	944	1150	1140	3320	5710	3740	363	368	295
10	273	1170	1580	944	1210	1130	3780	5890	3650	409	387	326
11	393	1270	1600	833	1310	1150	3890	6920	3700	393	507	427
12	405	1550	2030	841	1340	1420	3860	6850	3810	359	1450	539
13	378	1930	2440	905	1390	1550	3880	5120	3930	402	619	543
14	384	1550	1710	905	1440	1530	4220	3810	4110	374	849	560
15	432	1970	1650	784	684	1510	4520	3400	3860	354	540	796
16	377	2560	1750	716	381	1470	4420	3180	3550	374	420	612
17	258	2080	1240	545	293	1450	4310	3090	3100	372	447	650
18	184	2180	1320	518	293	1470	4860	2670	3120	379	453	705
19	177	1890	1620	750	305	1480	4780	2650	2910	363	432	797
20	173	1970	1950	819	275	1610	4710	2760	2620	374	382	776
21	e230	2300	1510	786	257	1680	4680	2730	2670	365	411	729
22	e300	1510	1470	463	257	1750	4630	2860	2200	372	366	684
23	e330	1420	1600	642	252	1810	4510	2880	2280	596	307	702
24	e320	1470	2070	944	252	1660	4400	3080	2020	725	445	722
25	e295	1360	1930	796	257	1530	4840	3370	1680	596	454	731
26	e275	1370	1920	855	1160	1470	4700	3530	860	674	437	755
27	e255	1410	981	957	1520	1430	4510	3330	602	693	584	775
28	e265	1430	1020	855	1530	1630	4610	3500	779	728	749	789
29	e275	1510	1010	796	1260	1570	4530	4300	834	753	962	696
30	e260	1680	807	807	---	1600	4390	3920	396	547	1060	551
31	e245	---	973	831	---	1640	---	3850	---	681	1070	---
TOTAL	9596	44931	47421	25840	25300	45430	115590	132230	89311	14057	17695	17069
MEAN	310	1498	1530	834	872	1465	3853	4265	2977	453	571	569
MAX	595	2560	2440	1220	1530	1810	4860	6920	5090	753	1450	797
MIN	173	483	807	463	252	1130	1630	2650	396	240	307	289
AC-FT	19030	89120	94060	51250	50180	90110	229300	262300	177100	27880	35100	33860
e	Estimated											

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	MEAN	365	865	1045	742	801	1245	2702	2689	2105	779	940	638
MAX	468	1498	1530	834	883	1792	3853	4265	4542	1321	2272	1202	
(WY)	1991	1992	1992	1992	1991	1989	1992	1992	1991	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 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1989 - 1992		
ANNUAL TOTAL	669014			584470					
ANNUAL MEAN	1833			1597			1320		
HIGHEST ANNUAL MEAN							1735		
LOWEST ANNUAL MEAN							627		
HIGHEST DAILY MEAN	6620			Jun 19			6920		
LOWEST DAILY MEAN	97			Jul 9			22		
ANNUAL SEVEN-DAY MINIMUM	187			Jul 8			29		
INSTANTANEOUS PEAK FLOW							8670		
INSTANTANEOUS LOW FLOW							14		
ANNUAL RUNOFF (AC-FT)	1327000			1159000			956200		
10 PERCENT EXCEEDS	3910			3960			3580		
50 PERCENT EXCEEDS	1280			1130			772		
90 PERCENT EXCEEDS	365			329			275		

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 0.6 mi south of intersection of 81st Street and Atrisco Drive at Albuquerque.

DRAINAGE AREA.--1.50 mi².

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.--Maximum discharge 5.7 ft³/s, at 1755 hours Aug. 11, gage height, 2.26 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	---	---	---	---	---	.00	---	.00	.00	.00	.00
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	.00	.12	.00
12	---	---	---	---	---	---	.00	---	.00	.00	.00	.00
13	---	---	---	---	---	---	.00	---	.00	.00	.00	.00
14	---	---	---	---	---	---	.00	---	.00	.00	.00	.00
15	---	---	---	---	---	---	.00	---	.00	.00	.00	.00
16	---	---	---	---	---	---	.00	---	.00	.00	.00	.00
17	---	---	---	---	---	---	.00	---	.00	.00	.00	.00
18	---	---	---	---	---	---	.00	---	.00	.00	.00	.00
19	---	---	---	---	---	---	.00	---	.00	.00	.00	.00
20	---	---	---	---	---	---	.00	---	.00	.00	.00	.00
21	---	---	---	---	---	---	.00	---	.00	.00	.00	.00
22	---	---	---	---	---	---	.00	---	.00	.00	.00	.00
23	---	---	---	---	---	---	.00	---	.00	.00	.00	.00
24	---	---	---	---	---	---	.00	---	.00	.00	.00	.00
25	---	---	---	---	---	---	---	---	.00	.00	.00	.00
26	---	---	---	---	---	---	---	---	.00	.00	.00	.00
27	---	---	---	---	---	.00	---	---	.00	.00	.00	.00
28	---	---	---	---	---	.00	---	---	.00	.00	.00	.00
29	---	---	---	---	---	.00	---	---	.00	.00	.00	.00
30	---	---	---	---	---	.00	---	---	.00	.00	.00	.00
31	---	---	---	---	---	.00	---	---	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	---	0.00	0.00	0.12	0.00
MEAN	---	---	---	---	---	---	---	---	.000	.000	.004	.000
MAX	---	---	---	---	---	---	---	---	.00	.00	.12	.00
MIN	---	---	---	---	---	---	---	---	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	---	---	.00	.00	.2	.00
(†)	0.44						0.70	1.46	0.23	1.33	0.71	0.67

(†) 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 SE/4SW/4 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 most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25 ft³/s, Aug. 7, at 1635 hours gage height, 2.60 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	.01	.00	.00	.00
2	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
3	.00	.00	---	---	---	---	.00	.05	.00	.00	.00	.00
4	.00	.01	---	---	---	---	.00	.00	.00	.00	.00	.00
5	.00	.00	---	---	---	---	.01	.00	.00	.00	.00	.00
6	.00	.00	---	---	---	---	.00	.27	.00	.00	.02	.02
7	.00	.00	---	---	---	---	.00	.00	.01	.00	.41	.00
8	.00	.00	---	---	---	---	.00	.00	.02	.00	.00	.00
9	.00	.02	---	---	---	---	.00	.00	.00	.00	.00	.00
10	.00	.00	---	---	---	---	.00	.01	.00	.00	.00	.00
11	.00	.07	---	---	---	---	.00	.00	.00	.00	.24	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.01	.00
13	.00	---	---	---	---	---	.10	.00	.00	.00	.00	.00
14	.00	---	---	---	---	---	.01	.00	.00	.00	.00	.01
15	.00	---	---	---	---	---	.00	.00	.01	.00	.01	.19
16	.00	---	---	---	---	---	.01	.00	.00	.00	.01	.00
17	.00	---	---	---	---	---	.00	.00	.00	.00	.02	.00
18	.00	---	---	---	---	---	.00	.00	.00	.00	.03	.00
19	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.08
20	.00	---	---	---	---	---	.00	.03	.00	.00	.01	.00
21	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
22	.00	---	---	---	---	---	.00	.11	.00	.00	.03	.00
23	.00	---	---	---	---	---	.00	.05	.00	.01	.00	.00
24	.00	---	---	---	---	---	.00	.00	.00	.19	.09	.00
25	.00	---	---	---	---	---	.00	.04	.00	.00	.00	.00
26	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
27	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
28	.00	---	---	---	---	.01	.00	.00	.00	.00	.00	.00
29	.00	---	---	---	---	.01	.00	.33	.00	.00	.00	.00
30	.00	---	---	---	---	.00	.00	.02	.00	.01	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.01	.00	---
TOTAL	0.00	---	---	---	---	---	0.13	0.91	0.05	0.22	0.88	0.30
MEAN	.000	---	---	---	---	---	.004	.029	.002	.007	.028	.010
MAX	.00	---	---	---	---	---	.10	.33	.02	.19	.41	.19
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.3	1.8	.1	.4	1.7	.6
(†)	0.00	---	---	---	---	---	0.40	2.30	0.25	1.91	2.14	0.28

(†) 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 of natural channel, 0.25 mi northwest of City of Albuquerque water storage tank, on dirt road extension of Ouray Road, and 2.3 mi west of North Coors Road in Albuquerque.

DRAINAGE AREA.--0.34 mi².

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, 161 ft³/s, Aug. 1, 1989, gage height, 3.77 ft, from step-backwater analysis of channel; maximum gage height, 3.82 ft, July 21, 1991; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.3 ft³/s, at 1910 hours May 29, gage height, 2.36 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
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
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
17	.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	.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	.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	.01	.00	.00	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	---	---	---	---	---	0.00	0.01	0.00	0.00	0.00	0.00
MEAN	.000	---	---	---	---	---	.000	.000	.000	.000	.000	.000
MAX	.00	---	---	---	---	---	.00	.01	.00	.00	.00	.00
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	.02	.00	.00	.00	.00
(†)	0.73						0.63	1.33	0.05			

(†) Total rainfall accumulation in inches.

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. 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, Armijo, and Atrisco canals provided by Middle Rio Grande Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	579	470	1450	926	1000	1060	1790	4940	3910	319	1030	709
2	508	588	1420	905	992	1040	2020	5260	4670	436	896	436
3	515	665	1430	904	994	1030	2010	5170	4480	458	679	406
4	494	794	1270	742	1070	1130	2420	5120	4150	460	709	413
5	465	866	1060	681	981	1020	2340	5110	3410	516	557	420
6	426	914	1060	957	897	1000	2170	5040	2950	470	514	402
7	420	1060	1120	1110	986	963	2640	5140	3380	478	674	370
8	418	1050	1210	962	1000	1010	2720	5170	3520	528	647	367
9	404	1060	1240	971	976	983	3110	5230	3530	536	623	351
10	395	1100	1280	1020	966	923	3530	5290	3440	597	607	362
11	442	1200	1480	947	1020	941	3640	5750	3450	687	591	420
12	485	1390	1500	967	1020	1080	3610	5900	3370	580	1590	553
13	487	1630	1530	1030	1020	1200	3760	4950	3390	631	823	549
14	473	1400	1360	1020	1030	1200	4080	4060	3450	540	970	560
15	482	1560	1310	988	659	1190	4450	3640	3260	551	811	744
16	474	2210	1250	921	348	1150	4480	3580	3030	557	615	628
17	403	1670	1120	773	328	1190	4370	3460	2610	470	659	653
18	326	1740	1140	753	329	1400	4870	3240	2600	467	606	692
19	311	1660	1370	915	328	1240	4920	3270	2510	505	594	820
20	303	1660	1660	1000	326	1140	4990	3240	2280	566	569	885
21	320	1860	1330	996	332	1140	4970	3280	2240	559	561	780
22	359	1530	1240	786	328	1150	4990	3420	2000	517	509	680
23	367	1320	1240	824	334	1130	4850	3620	1950	575	486	657
24	372	1300	1610	1010	329	1270	4840	3650	1820	997	680	653
25	353	1330	1580	950	319	1440	5090	3960	1540	890	626	642
26	318	1360	1540	940	718	1460	5020	3950	973	862	641	661
27	310	1380	971	1010	1120	1480	5070	3760	655	887	768	677
28	296	1380	832	973	1120	1560	5720	3690	746	882	824	687
29	311	1390	872	905	963	1660	5360	4130	856	824	927	624
30	305	1530	763	902	---	1730	4930	3890	540	706	1030	533
31	292	---	873	912	---	1770	---	3800	---	768	1020	---
TOTAL	12413	39067	39111	28700	21833	37680	118760	133710	80710	18819	22836	17334
MEAN	400	1302	1262	926	753	1215	3959	4313	2690	607	737	578
MAX	579	2210	1660	1110	1120	1770	5720	5900	4670	997	1590	885
MIN	292	470	763	681	319	923	1790	3240	540	319	486	351
AC-FT	24620	77490	77580	56930	43310	74740	235600	265200	160100	37330	45300	34380
(+)	16410	1260	976	815	859	7400	16870	17750	15690	16180	14300	14740

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1992, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	395	960	1072	944	1091	1307	2206	3239	2821	1604	798	559							
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 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1974 - 1992

ANNUAL TOTAL	585615	570973	
ANNUAL MEAN	1604	1560	a1416
HIGHEST ANNUAL MEAN			2486
LOWEST ANNUAL MEAN			356
HIGHEST DAILY MEAN	4800	Aug 7	5900
LOWEST DAILY MEAN	292	Oct 31	292
ANNUAL SEVEN-DAY MINIMUM	312	Oct 25	312
INSTANTANEOUS PEAK FLOW			6250
INSTANTANEOUS PEAK STAGE			6.38
ANNUAL RUNOFF (AC-FT)	1162000	1133000	1026000
10 PERCENT EXCEEDS	3380	3950	3610
50 PERCENT EXCEEDS	1240	998	821
90 PERCENT EXCEEDS	459	419	219

a-Average discharge for 32 years (water year 1942-73), 1,068 ft³/s, 773,800 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 current year.

PERIOD OF DAILY RECORD.--

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, 508 microsiemens, Nov. 20; minimum daily, 310 microsiemens, June 1.

WATER TEMPERATURE: Maximum daily, 29.5°C, July 6-8; minimum daily, 2.0°C, Jan. 3, 4.

SEDIMENT CONCENTRATION: Maximum daily mean, 3,660 mg/L, Dec. 1; minimum daily mean, 42 mg/L, Sept. 26.

SEDIMENT LOAD: Maximum daily, 26,400 tons, Apr. 29; minimum daily, 48 tons, Sept. 7, 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
APR									
16...	1014	4400	420	7.6	20.5	13.0	638	9.4	K45
16...	1315	4400	431	8.0	22.0	13.5	636	8.6	--

DATE	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS ORTHO DIS- SOLVED (MG/L AS P) (00671)
APR									
16...	0.040	0.050	<0.010	0.090	0.150	0.030	0.040	0.100	0.030
16...	0.039	0.060	<0.010	0.099	0.092	0.060	0.010	0.110	0.030

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, 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									
31...	1030	276	--	--	--	4.0	207	154	249
DEC									
04...	1315	1250	--	--	--	6.0	301	1020	1540
30...	1500	707	--	--	--	7.0	69	132	214
JAN									
31...	1145	911	292	1.6	1.95	5.0	156	384	600
FEB									
19...	1330	330	120	2.4	1.15	6.0	68	61	102
MAR									
04...	1530	1050	--	--	--	10.0	335	950	1440
MAY									
04...	1030	5230	390	3.6	3.71	--	1420	20100	27400
JUN									
01...	1100	3850	316	3.1	3.91	--	868	9020	12700
18...	1130	2610	310	2.9	2.93	19.5	550	3880	5610
29...	1330	853	282	1.8	1.64	24.0	852	1960	2900
JUL									
31...	1150	801	284	1.4	2.03	23.5	1300	2810	4110
AUG									
31...	1230	1070	286	1.8	2.10	21.5	343	991	1500

RIO GRANDE BASIN

08330000 RIO GRANDE AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	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)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
OCT 31...	--	0	23	30	76	100	--	16
DEC 04...	--	0	34	60	81	99	100	34
30...	--	--	55	76	96	100	--	0
JAN 31...	--	0	41	70	95	100	--	2
FEB 19...	--	--	41	81	100	--	--	0
MAR 04...	--	0	36	73	86	100	--	3
MAY 04...	--	--	13	25	50	95	100	--
JUN 01...	96	--	12	21	48	84	92	0
18...	92	0	11	22	41	78	84	23
29...	100	--	7	8	20	84	93	--
JUL 31...	100	--	12	12	20	79	96	0
AUG 31...	--	--	81	89	95	100	--	0
DATE	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 31...	23	31	52	62	66	73	83	100
DEC 04...	60	83	95	99	100	--	--	--
30...	1	10	68	94	99	100	--	--
JAN 31...	9	22	62	82	89	91	92	100
FEB 19...	1	10	53	86	95	99	100	--
MAR 04...	16	32	64	73	74	74	75	100
JUN 01...	1	15	75	95	96	100	97	100
18...	75	97	100	--	--	100	--	--
29...	0	12	68	91	99	100	--	--
JUL 31...	3	17	44	70	79	83	88	100
AUG 31...	1	13	73	96	99	99	100	--

RIO GRANDE BASIN

08330000 RIO GRANDE AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
ONCE-DAILY

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
332	446	430	448	445	443	360	336	310	411	378	376
402	441	430	425	445	392	359	337	327	398	378	375
405	416	418	426	446	411	379	336	329	390	381	377
380	420	418	423	439	412	380	323	320	381	385	377
375	415	425	437	442	421	380	320	328	391	384	375
385	413	418	440	445	417	376	337	335	389	368	375
385	408	413	412	424	426	382	338	330	391	366	375
379	406	415	411	435	427	405	341	332	392	372	376
380	407	410	419	434	415	413	340	332	388	373	376
378	407	451	419	431	413	401	339	333	378	426	372
379	408	439	479	424	415	406	339	335	378	427	371
394	404	442	442	425	420	398	339	335	389	427	363
395	403	486	438	423	428	399	339	346	388	427	362
385	423	424	440	425	425	411	339	346	389	432	363
381	429	420	442	422	421	405	318	345	387	433	313
384	430	419	418	459	421	369	319	348	388	433	312
383	427	418	474	464	419	371	321	349	384	433	369
409	440	412	440	465	418	368	324	388	385	433	368
409	468	406	437	464	419	371	323	386	384	432	368
405	508	429	417	465	419	373	324	387	384	377	368
406	435	430	416	465	400	370	327	388	383	377	369
399	430	431	413	463	399	340	326	389	377	376	369
394	415	431	414	463	406	339	326	392	373	377	369
405	432	432	433	461	404	340	325	389	374	377	371
407	421	439	434	461	400	339	323	389	382	376	373
437	---	441	434	425	393	343	326	391	373	378	372
443	490	446	434	---	394	341	327	388	383	394	375
442	451	448	435	437	393	350	318	388	378	399	373
442	432	453	643	439	392	351	315	389	372	377	373
452	429	451	436	---	392	348	316	390	377	376	373
452	---	449	436	---	393	---	318	---	372	376	---
400	---	431	439	---	411	372	328	358	384	395	368
452	---	486	643	---	443	413	341	392	411	433	377
332	---	406	411	---	392	339	315	310	372	366	312

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
ONCE-DAILY

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
21.0	15.0	5.0	5.0	6.0	9.0	15.0	17.0	18.0	24.0	27.0	24.0
18.0	16.0	6.0	3.5	6.0	11.0	15.5	17.0	17.5	26.0	27.0	24.5
17.0	15.0	6.0	2.0	7.5	9.0	16.5	17.5	17.5	21.0	28.5	25.0
17.0	17.0	7.0	2.0	6.0	9.0	16.5	17.5	20.5	22.0	24.0	25.0
18.0	14.0	6.5	5.5	9.0	10.0	16.5	18.0	21.0	28.0	29.0	24.5
21.0	16.0	7.0	6.0	8.5	10.0	17.0	18.0	20.0	29.5	26.0	25.0
18.0	15.0	7.0	4.5	7.0	8.5	17.0	18.0	20.0	29.5	24.0	25.0
19.0	17.0	6.5	4.0	9.0	8.5	17.0	18.0	20.0	29.5	24.0	25.0
17.0	14.0	10.0	5.5	8.5	8.5	17.0	18.0	20.0	25.0	25.5	25.0
17.0	16.0	8.5	5.0	9.5	8.5	17.0	18.0	20.0	24.0	25.0	25.5
18.0	13.0	7.0	5.5	9.0	14.0	17.0	17.0	21.0	23.5	25.0	25.0
17.0	14.0	6.0	5.0	10.0	14.5	17.0	17.5	21.0	20.5	24.0	25.0
17.0	11.0	7.0	5.5	7.5	14.5	17.0	18.0	21.0	25.0	24.5	25.0
16.0	9.5	6.5	4.5	9.5	14.0	16.5	18.0	21.5	27.0	25.0	25.0
18.0	9.0	6.0	5.0	8.0	13.5	16.5	19.0	22.0	26.0	26.0	24.0
19.0	9.5	7.0	4.0	6.0	13.5	16.5	20.0	22.0	25.5	27.5	24.0
17.0	10.0	7.0	5.0	6.0	13.0	16.0	18.0	22.0	26.5	27.5	24.5
19.0	10.5	5.0	5.0	6.0	12.0	16.0	22.0	24.0	22.0	28.0	25.0
19.0	7.0	5.0	4.5	7.0	14.0	16.0	22.0	24.0	22.0	28.0	25.0
17.0	5.0	5.5	3.5	7.0	14.5	16.0	19.0	24.0	28.0	27.5	25.0
17.0	6.0	5.0	6.0	11.0	14.5	16.5	20.0	25.0	24.0	27.0	25.0
18.0	5.0	5.0	6.0	11.0	14.5	17.0	17.0	25.0	29.0	27.0	25.5
19.0	5.0	6.5	3.0	11.5	14.5	17.0	14.0	25.5	26.0	26.0	25.5
15.0	6.0	6.0	5.0	12.0	14.5	17.0	12.0	25.0	23.5	26.0	25.5
16.0	4.0	4.0	5.0	12.5	15.0	17.0	17.0	25.0	24.5	26.0	25.5
17.0	---	5.0	5.0	11.5	14.5	17.0	17.0	25.0	26.0	26.0	26.0
20.0	10.5	8.5	5.0	---	14.0	17.0	18.0	25.0	27.0	25.5	25.5
18.0	8.0	9.0	4.5	8.5	14.0	15.5	17.0	25.5	27.0	25.0	25.5
16.0	6.5	4.5	4.5	9.0	14.0	16.0	16.5	25.5	28.0	25.0	25.0
16.0	5.0	5.0	4.0	---	13.5	18.0	16.5	25.5	29.0	25.0	25.0
17.0	---	5.5	4.0	---	13.5	---	18.0	---	28.0	25.0	---
17.7	---	6.3	4.6	---	12.5	16.6	17.8	22.3	25.7	26.0	25.0
21.0	---	10.0	6.0	---	15.0	18.0	22.0	25.5	29.5	29.0	26.0
15.0	---	4.0	2.0	---	8.5	15.0	12.0	17.5	20.5	24.0	24.0

RIO GRANDE BASIN

08330000 RIO GRANDE AT ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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	165	258	238	302	3660	14300	629	1570	516	1390	384	1100
2	113	155	250	397	1500	5750	370	904	124	332	399	1120
3	116	161	351	630	565	2180	319	779	278	746	296	823
4	121	161	372	797	591	2030	238	477	356	1030	325	992
5	123	154	323	755	340	973	128	235	340	901	414	1140
6	89	102	376	928	285	816	325	840	350	848	328	886
7	87	99	490	1400	314	950	223	668	398	1060	126	328
8	84	95	486	1380	664	2170	510	1320	366	988	474	1290
9	86	94	353	1010	520	1740	301	789	596	1570	124	329
10	82	87	344	1020	517	1790	235	647	284	741	415	1030
11	85	101	344	1110	992	3960	568	1450	268	738	473	1200
12	143	187	331	1240	1020	4120	189	493	364	1000	326	951
13	143	188	762	3350	989	4090	381	1060	300	826	319	1030
14	126	161	611	2310	399	1470	1300	3590	280	779	501	1620
15	128	167	828	3490	444	1570	225	600	172	306	466	1500
16	132	169	1850	11100	417	1410	269	669	220	207	274	851
17	116	126	1360	6130	609	1840	226	472	78	69	179	575
18	68	60	874	4110	470	1450	219	445	347	308	772	2920
19	66	55	940	4210	866	3200	432	1070	492	436	611	2050
20	66	54	716	3210	1830	8210	509	1370	1380	1220	350	1080
21	64	55	615	3090	492	1770	213	573	168	151	529	1630
22	93	90	561	2320	584	1960	413	876	196	174	428	1330
23	96	95	426	1520	328	1100	224	498	138	124	423	1290
24	94	94	258	906	336	1460	421	1150	179	159	510	1750
25	91	87	308	1110	624	2660	676	1730	126	109	477	1850
26	66	57	366	1340	857	3560	577	1460	335	649	161	635
27	68	57	406	1510	404	1060	206	562	848	2560	118	472
28	70	56	608	2270	467	1050	440	1160	777	2350	124	522
29	82	69	1020	3810	420	989	593	1450	440	1140	126	565
30	80	66	799	3300	246	507	574	1400	---	---	126	589
31	83	65	---	---	475	1120	1030	2550	---	---	120	573
TOTAL	---	3425	---	70055	---	81255	---	32857	---	22911	---	34021

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	160	773	89	1190	270	2850	66	57	948	2640	51	98
2	185	1010	84	1190	303	3820	108	127	948	2290	49	58
3	178	966	90	1260	401	4850	104	129	392	719	53	58
4	181	1180	305	4220	364	4080	106	132	241	461	49	55
5	155	979	539	7440	282	2600	139	194	269	405	49	56
6	153	896	167	2270	139	1110	229	291	291	404	50	54
7	168	1200	508	7050	88	803	681	879	455	828	48	48
8	177	1300	203	2830	96	912	585	834	189	330	50	50
9	185	1550	129	1820	165	1570	202	292	141	237	51	48
10	191	1820	126	1800	301	2800	172	277	1050	1710	227	222
11	191	1880	120	1860	301	2800	156	289	1540	2450	269	305
12	171	1670	133	2120	389	3540	235	368	2000	8580	193	288
13	180	1830	125	1670	285	2610	120	204	1350	3000	223	331
14	182	2000	158	1730	498	4640	90	131	242	634	221	334
15	170	2040	540	5310	386	3400	132	196	203	445	318	639
16	142	1720	617	5960	340	2780	124	186	216	359	321	544
17	132	1560	440	4110	296	2090	343	435	203	361	88	155
18	136	1790	285	2490	799	5610	150	189	212	347	68	127
19	134	1780	308	2720	1030	7010	86	117	179	287	86	190
20	136	1830	333	2910	967	5950	168	257	61	94	82	196
21	135	1810	355	3140	1120	6760	118	178	51	77	70	147
22	135	1820	326	3010	1190	6420	123	172	52	71	70	129
23	121	1580	329	3220	807	4250	1040	1620	55	72	68	121
24	117	1530	377	3720	99	486	1850	4970	55	101	60	106
25	126	1730	431	4610	67	279	2310	5540	50	85	45	78
26	121	1640	703	7500	63	166	623	1450	49	85	42	75
27	130	1780	561	5700	54	95	1410	3380	55	114	49	90
28	862	13300	463	4610	54	109	729	1740	59	131	49	91
29	1820	26400	547	6100	72	166	286	636	55	138	47	79
30	889	11800	442	4640	70	102	193	368	54	150	49	71
31	---	---	327	3360	---	---	611	1270	54	149	---	---
TOTAL	---	93164	---	111560	---	84658	---	26908	---	27754	---	4843

TOTAL LOAD FOR YEAR: 593411 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, 200 ft upstream of the Rio Bravo Bridge near Albuquerque, and at mile 1.535.1

DRAINAGE AREA.--17,500 mi², approximately, including 2,940 mi² 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.--Water-discharge 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 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	789	1190	1610	2920	4080	3950	754	431
2	---	---	---	---	883	1430	1530	2930	4020	3010	667	431
3	---	---	---	---	873	1330	1380	2920	4020	2880	819	400
4	---	---	---	---	857	1170	1490	2740	4050	2930	1060	401
5	---	---	---	---	849	1070	1660	2540	4360	2970	1450	425
6	---	---	---	---	790	986	1740	2500	4350	2160	2180	880
7	---	---	---	---	711	1050	1700	2490	4030	1090	4080	1020
8	---	---	---	---	678	1130	1710	2490	3720	505	3420	1120
9	---	---	---	---	663	1100	1900	2560	4200	352	2650	892
10	---	---	---	---	669	944	2070	2570	3830	409	1660	1880
11	---	---	---	---	687	792	2230	2630	3320	448	1530	1700
12	---	---	---	---	710	874	2220	2650	3690	418	1530	1590
13	---	---	---	---	732	904	2340	2740	3840	486	1920	1220
14	---	---	---	---	751	805	2420	2930	4280	528	1790	1220
15	---	---	---	---	771	767	2390	3020	4170	561	1560	1270
16	---	---	---	---	815	850	2400	3060	4070	596	1420	1250
17	---	---	---	---	887	1040	2420	3040	4050	565	1960	1050
18	---	---	---	---	968	1140	2600	3190	4410	496	2300	1070
19	---	---	---	458	964	1230	2650	3380	4420	497	1940	1050
20	---	---	---	789	1000	1330	2580	3440	4570	548	1700	967
21	---	---	---	575	923	1440	2580	3950	4140	523	1690	875
22	---	---	---	590	881	1470	2610	3310	4260	1490	1590	755
23	---	---	---	872	1000	1420	2880	3220	4270	1260	e660	788
24	---	---	---	1010	1150	1410	3010	3670	4290	1630	e585	701
25	---	---	---	1020	1150	1320	2990	3620	4340	2090	e462	554
26	---	---	---	1040	1160	1320	2960	3460	3620	2760	e463	590
27	---	---	---	1070	1160	1480	2980	3560	3150	2700	e455	659
28	---	---	---	1070	1190	1520	3010	3640	3050	2510	e400	679
29	---	---	---	960	---	1530	2970	3710	3110	1300	e340	610
30	---	---	---	751	---	1660	2950	4020	4030	953	e383	568
31	---	---	---	734	---	1650	---	4140	---	997	399	---
TOTAL	---	---	---	---	24661	37352	69980	97040	119740	43612	43817	27046
MEAN	---	---	---	---	881	1205	2333	3130	3991	1407	1413	902
MAX	---	---	---	---	1190	1660	3010	4140	4570	3950	4080	1880
MIN	---	---	---	---	663	767	1380	2490	3050	352	340	400
AC-FT	---	---	---	---	48920	74090	138800	192500	237500	86500	86910	53650

e Estimated

RIO GRANDE BASIN

08330150 RIO GRANDE AT RIO BRAVO BRIDGE NEAR ALBUQUERQUE, NM - - Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	544	408	1190	984	888	977	1440	5150	3990	281	874	929
2	456	519	1220	940	863	1010	1630	5540	4560	349	829	586
3	468	594	1240	934	848	1010	1720	5520	4260	441	661	495
4	442	717	1110	845	898	1150	2050	5560	3850	520	648	448
5	412	774	966	720	835	1090	2140	5630	3340	533	573	423
6	385	840	955	865	806	1100	2160	5670	2940	517	504	399
7	391	1000	1030	1010	869	1010	2550	5760	3270	497	630	364
8	370	1030	1080	947	886	1020	2630	5790	3470	543	582	357
9	345	997	1090	945	875	1010	2940	5720	3510	612	582	340
10	312	992	1120	986	899	970	3360	5740	3390	592	542	345
11	341	1030	1280	938	929	984	3540	6130	3410	738	547	410
12	402	1120	1370	930	952	1090	3620	6230	3380	623	1390	568
13	409	1320	1390	957	950	1200	3710	5360	3380	638	761	576
14	401	1250	1260	958	954	1160	3990	4270	3420	550	830	577
15	417	1270	1230	934	715	1160	4250	3900	3270	485	748	785
16	422	2050	1180	881	383	1180	4190	3670	3060	493	538	673
17	349	1440	1100	772	333	1170	4090	3600	2750	467	571	674
18	277	1440	1120	697	321	1190	4450	3300	2690	477	528	717
19	267	1380	1310	784	330	1180	4660	3140	2600	496	508	826
20	257	1330	1530	869	335	1170	4670	3260	2440	548	532	918
21	257	1450	1350	868	341	1200	4600	3380	2320	565	497	824
22	308	1280	1260	719	333	1240	4600	3450	2200	554	475	709
23	290	1180	1260	701	339	1260	4580	3520	2090	553	459	667
24	297	1150	1490	862	347	1310	4660	3710	1990	980	637	665
25	287	1160	1530	821	329	1350	4970	3940	1740	858	651	619
26	285	1200	1510	801	559	1360	5020	4140	1220	829	654	589
27	292	1230	1150	875	934	1370	4980	3960	742	889	782	579
28	285	1220	940	872	945	1400	5150	3980	854	860	883	608
29	279	1190	925	825	896	1390	5150	4380	995	796	1010	584
30	283	1240	864	824	---	1420	5110	4320	661	707	1180	507
31	259	---	909	833	---	1420	---	4000	---	660	1200	---
TOTAL	10789	33801	36959	26897	19892	36551	112610	141720	81792	18651	21806	17761
MEAN	348	1127	1192	868	686	1179	3754	4572	2726	602	703	592
MAX	544	2050	1530	1010	954	1420	5150	6230	4560	980	1390	929
MIN	257	408	864	697	321	970	1440	3140	661	281	459	340
AC-FT	21400	67040	73310	53350	39460	72500	223400	281100	162200	36990	43250	35230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1992, BY WATER YEAR (WY)

MEAN	348	1127	1192	868	686	1192	3043	3851	3359	1004	1058	747
MAX	348	1127	1192	868	686	1205	3754	4572	3991	1407	1413	902
(WY)	1992	1992	1992	1992	1992	1991	1992	1992	1991	1991	1991	1991
MIN	348	1127	1192	868	686	1179	2333	3130	2726	602	703	592
(WY)	1992	1992	1992	1992	1992	1992	1991	1991	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1992 WATER YEAR

WATER YEARS 1991 - 1992

ANNUAL TOTAL	559229	
ANNUAL MEAN	1528	1528
HIGHEST ANNUAL MEAN		1528
LOWEST ANNUAL MEAN		1528
HIGHEST DAILY MEAN	6230	May 12 1992
LOWEST DAILY MEAN	257	Oct 20 1991
ANNUAL SEVEN-DAY MINIMUM	279	Oct 18 1991
INSTANTANEOUS PEAK FLOW	6430	May 11 1992
INSTANTANEOUS PEAK STAGE	6.39	May 11 1992
ANNUAL RUNOFF (AC-FT)	1109000	1107000
10 PERCENT EXCEEDS	3990	3990
50 PERCENT EXCEEDS	948	1090
90 PERCENT EXCEEDS	389	448

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 left 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.

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, 810 ft³/s, at 2040 hours Aug. 11, gage height 3.34 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
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	.32	.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	.66	.00	.52	.00
7	.00	.00	---	---	---	---	.00	.50	.29	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
9	.00	.00	---	---	---	---	.00	.08	.00	.44	.00	.00
10	.00	.00	---	---	---	---	.00	.00	.00	1.2	.00	.00
11	.40	.65	---	---	---	---	.00	.00	.00	.00	23	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
13	.00	.00	---	---	---	---	.09	.00	.00	.00	.00	.00
14	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	7.5
15	.00	---	---	---	---	---	.00	.00	.00	.00	.00	2.4
16	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
17	.01	---	---	---	---	---	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	---	.00	.02	.00	.00	.00	.00
19	.00	---	---	---	---	---	.00	.39	.00	.00	.00	.60
20	.00	---	---	---	---	---	.00	.64	.00	.50	.07	.00
21	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
22	.00	---	---	---	---	---	.00	.63	.00	.00	.00	.00
23	.00	---	---	---	---	---	.00	.00	.00	2.0	.00	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.00	1.7	.00
25	.00	---	---	---	---	.00	.00	.32	.00	.00	.00	.00
26	.00	---	---	---	---	.00	.00	.58	.00	.00	.00	.00
27	.00	---	---	---	---	.47	.00	.00	.00	.03	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
29	.00	---	---	---	---	.00	.00	2.0	.00	.00	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
31	1.3	---	---	---	---	.00	---	.00	---	.36	.00	---
TOTAL	1.71	---	---	---	---	---	0.09	5.48	0.95	4.53	25.29	10.50
MEAN	.055	---	---	---	---	---	.003	.18	.032	.15	.82	.35
MAX	1.3	---	---	---	---	---	.09	2.0	.66	2.0	23	7.5
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	3.4	---	---	---	---	---	.2	11	1.9	9.0	50	21

RIO GRANDE BASIN

08330565 ARROYO DEL COYOTE (UPPER) 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 mi upstream from confluence with Tijeras Arroyo, and 2.5 southeast of Kirtland Air Force Base.

DRAINAGE AREA.--35.0 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, 23 ft³/s, Aug. 6, gage height, 1.23 ft, from floodmarks, from step-backwater analysis of channel; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
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	.15	.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	.42	.00
12	.00	.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
17	.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	.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	.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	0.57	0.00
MEAN	.000	---	---	---	---	---	.000	.000	.000	.000	.018	.000
MAX	.00	---	---	---	---	---	.00	.00	.00	.00	.42	.00
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	.00	.00	.00	1.1	.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 1.5 mi downstream from Pennsylvania Ave., 2,000 ft upstream from confluence with Tijeras Arroyo, 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 except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 262 ft³/s, Sept. 6, 1991, gage height, 5.21 ft, from floodmarks, from step-backwater analysis of channel; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11 ft³/s, at 2100 hours Aug. 11, 1992, gage height, 4.02 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	e.00	.00	e.00	e.00	e.00
2	.00	.00	---	---	---	---	.00	e.00	.00	e.00	e.00	e.00
3	.00	.00	---	---	---	---	.00	e.00	.00	e.00	e.00	e.00
4	.00	.00	---	---	---	---	.00	e.00	.00	e.00	e.00	e.00
5	.00	.00	---	---	---	---	.00	e.00	.00	e.00	e.00	e.00
6	.00	.00	---	---	---	---	.00	e.00	.00	e.00	e2.4	e.00
7	.00	.00	---	---	---	---	.00	e.00	.00	e.00	e.00	e.00
8	.00	.00	---	---	---	---	.00	e.00	.00	e.00	e.00	e.00
9	.00	.00	---	---	---	---	.00	e.00	.00	e.00	e.00	e.00
10	.00	.00	---	---	---	---	.00	e.00	.00	e.00	e.00	e.00
11	.00	.00	---	---	---	---	.00	e.00	.00	e.00	1.1	e.00
12	.00	.00	---	---	---	---	.00	e.00	.00	e.00	.00	.00
13	.00	---	---	---	---	---	.00	e.00	.00	e.00	.00	.00
14	.00	---	---	---	---	---	.00	e.00	.00	e.00	.00	.00
15	.00	---	---	---	---	---	.00	e.00	.00	e.00	.00	.00
16	.00	---	---	---	---	---	.00	e.00	.00	e.00	.00	.00
17	.00	---	---	---	---	---	.00	e.00	.00	.00	.00	.00
18	.00	---	---	---	---	---	.00	e.00	.00	.00	.00	.00
19	.00	---	---	---	---	---	.00	e.00	.00	.00	.00	.00
20	.00	---	---	---	---	---	.00	e.00	.00	.00	.00	.00
21	.00	---	---	---	---	---	.00	e.00	.00	.00	.00	.00
22	.00	---	---	---	---	---	.00	e.00	.00	.00	.00	.00
23	.00	---	---	---	---	---	.00	e.00	.00	.00	.00	.00
24	.00	---	---	---	---	.00	.00	e.00	.00	.00	.00	.00
25	.00	---	---	---	---	.00	e.00	e.00	.00	.00	.00	.00
26	.00	---	---	---	---	.00	e.00	e.00	.00	.00	e.00	.00
27	.00	---	---	---	---	.00	e.00	e.00	.00	.00	e.00	.00
28	.00	---	---	---	---	.00	e.00	e.00	.00	e.00	e.00	.00
29	.00	---	---	---	---	.00	e.00	e.00	.00	e.00	e.00	.00
30	.00	---	---	---	---	.00	e.00	e.00	.00	e.00	e.00	.00
31	.00	---	---	---	---	.00	---	.00	---	e.00	e.00	---
TOTAL	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	3.50	0.00
MEAN	.000	---	---	---	---	---	.000	.000	.000	.000	.11	.000
MAX	.00	---	---	---	---	---	.00	.00	.00	.00	2.4	.00
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	.00	.00	.00	6.9	.00

e Estimated

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 2.3 mi southeast of intersection of Gibson Blvd and Louisiana Blvd and 1.6 mi south of Kirtland Air Force Base.

DRAINAGE AREA.--126 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 good except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 944 ft³/s, Aug. 11, 1992; 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 6.60 ft; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 944 ft³/s, at 2230 hours Aug. 11, gage height, 6.90 ft, from floodmarks, from rating curve extended on basis of slope-area measurements at gage heights 4.18 ft and 6.60 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	.34	.00	.35	.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	1.6	.00
7	.00	.00	---	---	---	---	.00	.00	.22	.00	6.10	.00
8	.00	.00	---	---	---	---	.00	.00	.02	.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	43	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	10	.00
13	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
14	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
15	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.77
16	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
17	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
19	.00	---	---	---	---	---	.00	.00	.00	.00	.00	2.2
20	.00	---	---	---	---	---	.00	.00	.00	.00	4.8	.00
21	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
22	.00	---	---	---	---	---	.00	.50	.00	.00	.00	.00
23	.00	---	---	---	---	.00	.00	.00	.00	.68	.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	5.4	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
29	.00	---	---	---	---	.00	.00	4.2	.00	.00	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.66	.00	---
TOTAL	0.00	---	---	---	---	---	0.00	4.70	0.58	6.74	59.85	2.97
MEAN	.000	---	---	---	---	---	.000	.15	.019	.22	1.93	.099
MAX	.00	---	---	---	---	---	.00	4.2	.34	5.4	43	2.2
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	9.3	1.2	13	119	5.9

e Estimated

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 measurements of peak flow; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 698 ft³/s, at 2230 hours Aug. 11, gage height, 3.00 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
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	8.0	.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	32	.00
12	.00	.00	---	---	---	.00	.00	.00	.00	.00	14	.00
13	.00	.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	.12	.00
22	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
23	.00	---	---	---	---	.00	.00	.00	.00	1.3	.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	17	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
29	.00	---	---	---	---	.00	.00	7.8	.00	.00	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	3.0	.00	---
TOTAL	0.00	---	---	---	---	---	0.00	7.80	0.00	21.30	54.12	0.00
MEAN	.000	---	---	---	---	---	.000	.25	.000	.69	1.75	.000
MAX	.00	---	---	---	---	---	.00	7.8	.00	17	32	.00
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	15	.00	42	107	.00

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.

DRAINAGE AREA.--128 mi².

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, 724 ft³/s, at 2330 hours Aug. 11, gage height, 5.88 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 1991 TO SEPTEMBER 1992
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	4.7	.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	16	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	15	.00
13	.00	.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	5.8	.00
22	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
23	.00	---	---	---	---	.00	.00	.00	.00	5.2	.00	.00
24	.00	---	---	---	---	.00	.00	.00	.00	2.2	.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	23	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
29	.00	---	---	---	---	.00	.00	7.1	.00	.00	.00	.00
30	.00	---	---	---	---	.00	.00	2.3	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	---	---	---	---	---	0.00	9.40	4.70	30.40	36.80	0.00
MEAN	.000	---	---	---	---	---	.000	.30	.16	.98	1.19	.000
MAX	.00	---	---	---	---	---	.00	7.1	4.7	23	16	.00
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	19	9.3	60	73	.00

RIO GRANDE BASIN

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.

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 except for estimated daily discharges, which are poor.

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, 118 ft³/s, at 1930 hours Aug. 6, gage height, 1.57 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	e.00	---	---	---	---	e.00	.00	.92	.36	7.4	.00
2	.00	e.00	---	---	---	---	e.00	5.7	.80	e.00	.45	.00
3	.00	e.00	---	---	---	---	e.00	.85	.23	e.00	.00	.00
4	.00	e.00	---	---	---	---	e.00	.28	.00	e.00	.00	.00
5	.00	e.00	---	---	---	---	e.00	.00	e.00	e.00	.00	.00
6	.00	e.00	---	---	---	---	e.00	.00	e.00	e.00	20	.00
7	.00	e.00	---	---	---	---	e.00	.15	e.00	e.00	6.3	.00
8	.00	e.00	---	---	---	---	e.00	.00	e.00	e.00	1.4	e.00
9	.00	e.00	---	---	---	---	e.00	1.7	e.00	e.00	.29	e.00
10	.00	e.00	---	---	---	---	e.00	.33	e.00	e.00	1.2	.00
11	.00	e.00	---	---	---	---	e.00	.00	e.00	e.00	2.4	.00
12	.00	e.00	---	---	---	---	e.00	e.00	e.00	e.00	24	.00
13	.00	.00	---	---	---	.00	e.00	e.00	e.00	e.00	3.4	.00
14	.00	---	---	---	---	.71	e.00	e.00	e.00	.07	.70	.00
15	.00	---	---	---	---	.49	e.00	e.00	.00	.00	.60	2.9
16	.00	---	---	---	---	.00	e.00	e.00	.00	.13	.06	.50
17	.00	---	---	---	---	.00	e.00	e.50	.00	.00	.00	.07
18	.00	---	---	---	---	.10	e.00	e.10	.00	1.2	.00	.00
19	.00	---	---	---	---	.00	e.00	e.70	.00	.12	.00	3.0
20	.00	---	---	---	---	.00	.00	e.90	.00	.00	.00	1.6
21	.00	---	---	---	---	.00	.34	e.00	.00	.00	.00	.07
22	.00	---	---	---	---	.02	.00	e3.0	.00	.00	.00	.00
23	.00	---	---	---	---	.01	.00	e1.0	.00	.00	2.9	.00
24	.00	---	---	---	---	.00	.00	e.00	.00	2.4	.30	.00
25	.06	---	---	---	---	.00	.00	e.00	.00	3.4	.00	.00
26	.50	---	---	---	---	.18	.00	e.00	.00	1.4	.00	.00
27	.00	---	---	---	---	.00	.00	e.00	.00	.80	.00	.00
28	.00	---	---	---	---	.00	.00	e.00	.00	.08	.00	.00
29	.00	---	---	---	---	.00	.00	e.20	1.5	.00	.00	.00
30	.00	---	---	---	---	.00	.00	2.0	5.5	.00	.00	.00
31	.00	---	---	---	---	.00	---	1.8	---	3.4	.00	---
TOTAL	0.56	---	---	---	---	---	0.34	19.21	8.95	13.36	71.40	8.14
MEAN	.018	---	---	---	---	---	.011	.62	.30	.43	2.30	.27
MAX	.50	---	---	---	---	---	.34	5.7	5.5	3.4	24	3.0
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	1.1	---	---	---	---	---	.7	38	18	26	142	16

e Estimated

RIO GRANDE BASIN

08330775 SOUTH DIVERSION CHANNEL ABOVE TIJERAS ARROYO NEAR ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to September 1992

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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 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, 0.45 UM-MF (COLS./ 100 ML) (31616)*
JUL 24...	2145	--	--	4.9	166	8.4	22.5	--	--	>50000
JUL 24-25	2145	0045	3.5	--	--	--	--	150	11	--
JUL 31...	2300	--	--	28	215	8.0	--	--	--	>60000
JUL 31- AUG 01	2300	0145	26	--	--	--	--	40	18	--
AUG 06-06	1745	2130	62	--	--	--	--	500	64	--
AUG 06...	1820	--	--	34	92	8.2	24.5	--	--	>60000
AUG 11-12	2345	0240	108	--	--	--	--	--	--	--
AUG 11...	2345	--	--	27	120	8.4	19.5	200	19	>60000
AUG 24...	1100	--	--	1.6	--	7.7	--	--	--	>60000
AUG 24-24	1100	1400	8.4	--	--	--	--	84	24	--
SEP 15...	0955	--	--	3.7	259	7.6	22.0	--	--	--
SEP 15-15	0955	1255	7.8	--	--	--	--	150	26	--
SEP 15...	0956	--	--	3.7	259	7.6	22.0	--	--	--
SEP 15-15	0956	1256	7.8	--	--	--	--	--	--	--

DATE	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 REST- DUAL (MG/L) (50060)
JUL 24...	28000	--	--	--	--	--	--	--	--	--
JUL 24-25	--	71	25	2.0	7.0	0.4	8.4	89	21	<0.02
JUL 31...	110000	--	--	--	--	--	--	--	--	--
JUL 31- AUG 01	--	44	15	1.6	6.7	0.4	4.7	100	11	--
AUG 06-06	--	39	13	1.5	5.1	0.4	3.6	100	9.7	--
AUG 06...	170000	--	--	--	--	--	--	--	--	--
AUG 11-12	--	41	14	1.5	4.5	0.3	2.8	98	6.0	--
AUG 11...	130000	--	--	--	--	--	--	--	--	--
AUG 24...	170000	--	--	--	--	--	--	--	--	--
AUG 24-24	--	73	25	2.6	11	0.6	5.7	69	17	--
SEP 15...	160000	--	--	--	--	--	--	--	--	--
SEP 15-15	--	78	27	2.5	9.9	0.5	8.2	72	23	--
SEP 15...	--	--	--	--	--	--	--	--	--	--
SEP 15-15	--	78	27	2.5	9.7	0.5	8.6	67	23	--

* 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

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	CHLORIDE, DIS- SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, 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, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JUL 24...	--	--	--	--	--	--	--	--	--	--
JUL 24-25	7.4	143	124	684	1.16	0.040	1.20	0.040	0.76	0.80
JUL 31...	--	--	--	--	--	--	--	--	--	--
JUL 31- AUG 01	5.5	100	104	616	0.710	0.040	0.750	0.170	0.93	1.1
AUG 06-06	3.9	83	97	1660	0.440	0.030	0.470	0.080	0.32	0.40
AUG 06...	--	--	--	--	--	--	--	--	--	--
AUG 11-12	3.0	76	91	758	0.390	0.030	0.420	0.050	0.55	0.60
AUG 11...	--	--	--	--	--	--	--	--	--	--
AUG 24...	--	--	--	--	--	--	--	--	--	--
AUG 24-24	11	155	114	145	0.280	0.060	0.340	0.050	0.85	0.90
SEP 15...	--	--	--	--	--	--	--	--	--	--
SEP 15-15	12	171	126	55	0.500	0.090	0.590	0.070	1.6	1.7
SEP 15...	--	--	--	--	--	--	--	--	--	--
SEP 15-15	12	170	123	50	0.480	0.090	0.570	0.060	1.6	1.7

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	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)
JUL 24...	--	--	--	--	<0.010	1	2	--	--	--
JUL 24-25	2.0	0.490	0.230	36	--	--	--	5	<10	2
JUL 31...	--	--	--	--	<0.010	5	2	--	--	--
JUL 31- AUG 01	1.8	0.300	0.210	28	--	--	--	4	<10	<1
AUG 06-06	0.87	0.220	0.130	42	--	--	--	9	<10	2
AUG 06...	--	--	--	--	<0.010	5	2	--	--	--
AUG 11-12	1.0	0.180	0.120	22	--	--	--	6	<10	<1
AUG 11...	--	--	--	--	<0.010	5	1	--	--	--
AUG 24...	--	--	--	--	<0.010	2	<1	--	--	--
AUG 24-24	1.2	0.270	0.180	27	--	--	--	5	<10	<1
SEP 15...	--	--	--	--	<0.010	8	<1	--	--	--
SEP 15-15	2.3	0.520	0.310	36	--	--	--	6	<10	<1
SEP 15...	--	--	--	--	<0.010	7	<1	--	--	--
SEP 15-15	2.3	0.500	0.310	32	--	--	--	4	<10	<1

RIO GRANDE BASIN

08330775 SOUTH DIVERSION CHANNEL ABOVE TIJERAS ARROYO NEAR ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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 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)
JUL 24...	--	--	--	--	--	--	--	--	--
JUL 24-25 31...	11	28	90	<0.10	16	<1	<1	<5	150
JUL 31- AUG 01	10	11	52	<0.10	13	<1	<1	<5	130
AUG 06-06 06...	16	36	110	<0.10	32	<1	<1	<5	210
AUG 11-12 11... 24...	10	11	52	<0.10	17	<1	<1	<10	120
AUG 24-24	<1	8	5	<0.10	1	<1	<1	<10	60
SEP 15...	--	--	--	--	--	--	--	--	--
SEP 15-15 15...	2	16	11	<0.10	3	<2	<1	<10	40
SEP 15-15	1	9	11	<0.10	3	<2	<1	<10	40

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)
JUL 24...	2145	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	1	<0.2	<0.2
JUL 24-25 31...	2145 2300	0045 --	--	--	--	--	--	--	--	--	--	--
JUL 31- AUG 01	2300	0145	--	--	--	--	--	--	--	--	--	--
AUG 06-06 06...	1745 1820	2130 --	--	--	--	--	--	--	--	--	--	--
AUG 11-12 11... 24...	2223 2345 1100	0240 -- --	--	--	--	--	--	--	--	--	--	--
AUG 24-24	1100	1400	--	--	--	--	--	--	--	--	--	--
SEP 15...	0955	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	8	0.2	<0.2
SEP 15-15 15... 15-15	0955 0956	1255 --	--	--	--	--	--	--	--	--	--	--
SEP 15-15	0956	1256	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	7	0.2	<0.2

RIO GRANDE BASIN

08330775 SOUTH DIVERSION CHANNEL ABOVE TIJERAS ARROYO NEAR ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)
JUL 24...	--	--	<20	<20	--	--	--	--	--	--	--	--
JUL 24-25	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
JUL 31...	--	--	<20	<20	--	--	--	--	--	--	--	--
JUL 31-AUG 01	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
AUG 06-06	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
AUG 06...	--	--	<20	<20	--	--	--	--	--	--	--	--
AUG 11-12	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
AUG 11...	--	--	<20	<20	--	--	--	--	--	--	--	--
AUG 24...	--	--	<20	<20	--	--	--	--	--	--	--	--
AUG 24-24	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
SEP 15...	--	--	<20	<20	--	--	--	--	--	--	--	--
SEP 15-15	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
SEP 15...	--	--	<20	<20	--	--	--	--	--	--	--	--
SEP 15-15	<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 TOTAL (UG/L) (34361)	ENDRIN ALDE-HYDE TOTAL (UG/L) (34366)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FLUOR-ANTHENE TOTAL (UG/L) (34376)
JUL 24...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
JUL 24-25	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
JUL 31...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
JUL 31-AUG 01	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
AUG 06-06	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
AUG 06...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
AUG 11-12	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
AUG 11...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
AUG 24...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
AUG 24-24	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
SEP 15...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
SEP 15-15	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
SEP 15...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
SEP 15-15	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0

RIO GRANDE BASIN

08330775 SOUTH DIVERSION CHANNEL ABOVE TIJERAS ARROYO NEAR ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	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)	N-NITRO -SODI- METHY- LAMINE TOTAL (UG/L) (34438)	NITRO- BENZENE TOTAL (UG/L) (34447)
JUL 24...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
JUL 24-25	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
JUL 31...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
JUL 31-												
AUG 01	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
AUG 06-06	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
AUG 06...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
AUG 11-12	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
AUG 11...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
AUG 24...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
AUG 24-24	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
SEP 15...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
SEP 15-15	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
SEP 15...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
SEP 15-15	<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)	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- 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 (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)
JUL 24...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
JUL 24-25	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
JUL 31...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
JUL 31-												
AUG 01	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
AUG 06-06	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
AUG 06...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
AUG 11-12	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
AUG 11...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
AUG 24...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
AUG 24-24	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
SEP 15...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
SEP 15-15	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
SEP 15...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
SEP 15-15	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0

RIO GRANDE BASIN

08330775 SOUTH DIVERSION CHANNEL ABOVE TIJERAS ARROYO NEAR ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	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)	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)
JUL 24...	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
JUL 24-25	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0
JUL 31...	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
JUL 31- AUG 01	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0
AUG 06-06	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0
AUG 06...	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
AUG 11-12	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0
AUG 11...	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
AUG 24...	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
AUG 24-24	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0
SEP 15...	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
SEP 15-15	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0
SEP 15...	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
SEP 15-15	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0
DATE	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)	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)
JUL 24...	--	--	--	--	--	--	--	--	--	--	--	<0.2
JUL 24-25	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
JUL 31...	--	--	--	--	--	--	--	--	--	--	--	<0.2
JUL 31- AUG 01	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
AUG 06-06	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
AUG 06...	--	--	--	--	--	--	--	--	--	--	--	<0.2
AUG 11-12	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
AUG 11...	--	--	--	--	--	--	--	--	--	--	--	<0.2
AUG 24...	--	--	--	--	--	--	--	--	--	--	--	<0.2
AUG 24-24	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
SEP 15...	--	--	--	--	--	--	--	--	--	--	--	<0.2
SEP 15-15	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
SEP 15...	--	--	--	--	--	--	--	--	--	--	--	<0.2
SEP 15-15	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--

RIO GRANDE BASIN

08330775 SOUTH DIVERSION CHANNEL ABOVE TIJERAS ARROYO NEAR ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	AROCLO 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)	CHLOR- DANE CIS WATER TOTAL (UG/L) (39062)	CHLOR- DANE TRANS WATER 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)
JUL 24...	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
JUL 24-25	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	5.0	<5.0	<40.0	--
JUL 31...	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
JUL 31- AUG 01	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	<5.0	<5.0	<40.0	--
AUG 06-06	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	<5.0	<5.0	<40.0	--
AUG 06...	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
AUG 11-12	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	<5.0	<5.0	<40.0	--
AUG 11...	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
AUG 24...	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
AUG 24-24	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	<5.0	<5.0	<40.0	--
SEP 15...	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
SEP 15-15	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	<5.0	<5.0	<40.0	--
SEP 15...	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
SEP 15-15	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	<5.0	<5.0	<40.0	--

DATE	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)	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)
JUL 24...	<0.2	--	--	--	--	--	--	--	--	--	--	--
JUL 24-25	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2
JUL 31...	<0.2	--	--	--	--	--	--	--	--	--	--	--
JUL 31- AUG 01	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.04	<0.030	<0.3	<0.020	<0.060	<2
AUG 06-06	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	0.1	<0.020	<0.060	<2
AUG 06...	<0.2	--	--	--	--	--	--	--	--	--	--	--
AUG 11-12	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	0.1	<0.020	<0.060	<2
AUG 11...	<0.2	--	--	--	--	--	--	--	--	--	--	--
AUG 24...	<0.2	--	--	--	--	--	--	--	--	--	--	--
AUG 24-24	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2
SEP 15...	<0.2	--	--	--	--	--	--	--	--	--	--	--
SEP 15-15	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2
SEP 15...	<0.2	--	--	--	--	--	--	--	--	--	--	--
SEP 15-15	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2

08330775 SOUTH DIVERSION CHANNEL ABOVE TIJERAS ARROYO NEAR ALBUQUERQUE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	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)	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)
JUL 24...	--	--	--	--	--	--	--	--	--	<5.0	<0.2
JUL 24-25 31...	<0.030 --	<0.80 --	<1.0 --	<0.1 --	0.5 --	<0.1 --	<0.1 --	<0.1 --	<5.0 --	--	--
JUL 31- AUG 01	<0.030	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	--	--
AUG 06-06 06...	<0.030 --	<0.80 --	<1.0 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --	<5.0 --	--	--
AUG 11-12 11...	<0.030 --	<0.80 --	<1.0 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --	<5.0 --	<5.0	<0.2
24...	--	--	--	--	--	--	--	--	--	<5.0	<0.2
AUG 24-24	<0.030	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	<5.0	<0.2
SEP 15-15 15...	<0.030 --	<0.80 --	<1.0 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --	<0.1 --	<5.0 --	--	--
SEP 15-15	<0.030	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	--	--

[illegible]

WATER-QUALITY RECORDS

[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, 50 feet downstream from bridge on State Highway 147, at Isleta.

DRAINAGE AREA.--18,100 mi² (estimated).

PERIOD OF RECORD.--Water years 1972 to current year.

REMARKS.--Samples are collected on the Peralta main canal or the Belen Highline canal when the river is completely diverted. Water-discharge estimated from upstream gaging records at Rio Bravo Bridge.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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 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)
FEB 13...	1331	e950	441	8.2	9.0	7.0	631	9.3	19	20	24	160
MAY 28...	1415	e3980	325	7.2	31.0	18.5	633	7.6	31	K29	K28	120
JUN 24...	1045	e1990	385	7.1	31.5	20.0	638	7.4	17	120	K19	130
AUG 13...	1245	e761	610	7.9	28.0	23.0	643	5.5	43	K26	K24	230

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-LINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl) (00940)
FEB 13...	18	50	8.1	35	1	3.5	171	0	140	72	19
MAY 28...	33	37	6.3	21	0.8	2.4	104	0	85	54	11
JUN 24...	25	40	7.4	26	1	3.1	129	0	106	71	11
AUG 13...	130	79	8.9	27	0.8	4.2	121	0	99	170	8.2

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 TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRATE 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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
FEB 13...	0.50	23	299	0.420	0.440	0.030	0.020	0.450	0.460	0.520	0.530
MAY 28...	0.30	15	200	0.190	0.230	0.050	0.020	0.240	0.250	0.170	0.140
JUN 24...	0.30	17	242	0.350	0.380	0.050	0.040	0.400	0.420	0.360	0.380
AUG 13...	0.50	19	380	0.480	0.520	0.140	0.130	0.620	0.650	0.500	0.490

RIO GRANDE BASIN

08331000 RIO GRANDE AT ISLETA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	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)	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)
FEB 13...	0.48	1.0	1.5	0.360	0.260	0.240	3.7	3	4	70	<1
MAY 28...	0.43	0.60	0.84	0.200	0.180	0.120	5.7	--	--	50	--
JUN 24...	0.64	1.0	1.4	0.260	0.180	0.180	5.7	--	--	50	--
AUG 13...	0.50	1.0	1.6	0.230	0.160	0.140	20	6	4	70	<1
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)
FEB 13...	<1.0	<1	<1	5	1	<3	7	<1	<0.10	0.2	<1
MAY 28...	--	--	--	--	--	39	--	--	--	--	--
JUN 24...	--	--	--	--	--	10	--	--	--	--	--
AUG 13...	<1.0	27	<1	45	2	14	52	<1	<0.10	<0.1	<1
DATE	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) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS AS NAT U (UG/L) (75986)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U) (80040)	GROSS BETA, DIS- SOLVED (PCI/L AS U) (03515)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90) (80050)		
FEB 13...	<1	20	3	3.8	2.2	3.4	3.1	1.0	2.3		
MAY 28...	--	--	--	--	--	--	--	--	--		
JUN 24...	--	--	--	--	--	--	--	--	--		
AUG 13...	<1	140	3	--	--	--	--	--	--		
DATE	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L (75988)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) (80060)	BETA, 2 SIGMA SED, SUSP, TOT DRY SR90Y90 (PCI/L) (76005)	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- SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
FEB 13...	0.70	4.6	4.3	1.1	0.07	0.020	2.8	<1.0	692	1770	12
MAY 28...	--	--	--	--	--	--	--	--	2490	26800	66
JUN 24...	--	--	--	--	--	--	--	--	211	1130	86
AUG 13...	--	--	--	--	--	--	--	--	5680	11700	98

RIO GRANDE BASIN

08331000 RIO GRANDE AT ISLETA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	CHLOR-DYRIFOS 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)
AUG 13...	1245	<0.01	<0.01	<0.01	<0.1	<0.01	<0.10	<0.010	<0.010	<0.1	<0.010
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)
AUG 13...	<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 TOTAL (UG/L) (39786)	2, 4-DP TOTAL (UG/L) (82183)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (UG/L) (82614)
MAY 28...	--	--	--	--	<0.01	<0.01	--	<0.01	--	<0.01	--
AUG 13...	<0.01	<0.01	0.04	<0.01	--	--	<0.01	--	<0.01	--	<0.01

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 Puerco.

PERIOD OF RECORD.--June 1936 to September 1937, October 1964 to current year. July 1943 to September 1964, included 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, except for estimated daily discharge, which are fair. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.2	4.5	4.6	5.1	3.8	5.3	9.8	7.7	1.4	1.3	.08
2	2.7	3.3	4.5	4.6	5.2	3.8	5.7	8.7	8.3	.97	1.3	.16
3	2.6	3.2	4.5	e4.6	5.0	4.0	5.4	9.7	8.0	.80	.70	.08
4	2.5	3.4	4.5	e4.6	5.0	4.1	5.4	10	7.9	.75	.39	.00
5	2.5	3.4	4.5	e4.6	4.8	4.1	5.3	10	7.3	.60	.20	.00
6	3.9	3.4	4.5	e4.6	4.2	3.8	5.3	9.7	6.3	.37	.19	.00
7	4.1	3.4	4.5	e4.6	3.4	3.4	5.3	10	5.6	.20	.37	.00
8	5.4	3.5	4.5	e4.6	3.4	3.4	5.0	9.2	6.9	.00	.31	.00
9	4.1	3.7	4.5	e4.6	3.4	3.4	4.9	9.3	6.8	.00	.17	.00
10	3.7	3.7	4.7	e4.6	3.3	3.2	5.1	10	6.8	.00	.00	.00
11	3.5	3.7	5.9	e4.6	3.4	3.3	6.0	7.8	6.4	.56	.00	.00
12	4.2	3.7	5.4	e4.6	3.4	3.1	5.5	7.6	6.0	.27	2.1	.00
13	3.4	3.8	5.2	e4.5	3.5	3.3	6.5	7.6	4.5	.48	.42	.00
14	2.6	4.1	4.9	e4.5	3.8	3.3	8.0	9.6	4.2	.64	.38	.00
15	3.0	4.4	5.0	e4.5	3.8	3.5	6.9	9.8	4.8	.33	.46	.00
16	4.0	4.7	4.9	e4.5	3.8	3.6	6.9	9.0	4.1	.13	.44	.00
17	3.6	4.7	4.9	e4.5	3.5	3.5	7.1	11	3.6	.00	.38	.00
18	4.2	4.6	5.1	e4.5	3.1	3.4	9.1	10	3.5	.00	.17	.00
19	3.7	4.2	5.7	e4.5	3.3	3.4	7.7	9.7	3.3	.00	.09	.00
20	3.8	4.1	5.6	e4.5	3.3	3.7	7.8	14	3.8	.00	.04	.29
21	3.7	4.3	5.2	e4.5	3.1	4.0	11	11	3.0	.00	.49	.20
22	4.5	4.3	5.1	4.6	3.1	4.8	16	9.8	2.7	.00	.10	.22
23	4.4	4.2	4.9	4.6	3.2	4.2	11	9.4	3.1	.00	.30	.20
24	4.4	4.1	4.8	4.5	3.3	4.1	11	9.2	3.0	1.2	.44	.17
25	5.9	4.1	5.0	4.6	3.1	4.2	12	8.8	4.0	1.6	.28	.17
26	6.8	4.1	5.3	4.9	3.1	4.6	11	7.4	2.6	1.2	.10	.10
27	7.2	4.1	6.0	5.0	3.0	4.4	12	6.9	3.2	.69	.10	.18
28	3.4	4.2	5.4	5.0	3.4	6.0	12	7.2	3.0	.59	.01	.09
29	2.8	4.2	4.9	5.3	3.9	5.0	11	7.0	1.6	.82	.00	.18
30	2.9	4.2	4.9	5.3	---	5.2	11	7.7	1.2	.47	.00	.26
31	3.1	---	4.9	5.0	---	5.3	---	7.2	---	.48	.00	---
TOTAL	119.6	118.0	154.2	144.5	106.9	122.9	242.2	284.1	143.2	14.55	11.23	2.38
MEAN	3.86	3.93	4.97	4.66	3.69	3.96	8.07	9.16	4.77	.47	.36	.079
MAX	7.2	4.7	6.0	5.3	5.2	6.0	16	14	8.3	1.6	2.1	.29
MIN	2.5	3.2	4.5	4.5	3.0	3.1	4.9	6.9	1.2	.00	.00	.00
AC-FT	237	234	306	287	212	244	480	564	284	29	22	4.7
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1992, BY WATER YEAR (WY)

	MEAN	98.6	359	322	296	294	244	251	251	214	113	100	75.7
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	3.63	2.97	3.44	3.93	2.92	.64	.000	.000	.013	.000	
(WY)	1964	1978	1982	1982	1982	1977	1977	1977	1972	1964	1977	1964	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1964 - 1992

ANNUAL TOTAL	2071.3	1463.76	
ANNUAL MEAN	5.67	4.00	
HIGHEST ANNUAL MEAN			218
LOWEST ANNUAL MEAN			1017
HIGHEST DAILY MEAN	36	Mar 17	2.25
LOWEST DAILY MEAN	1.6	Jul 20	2050
ANNUAL SEVEN-DAY MINIMUM	2.4	Aug 28	.00
INSTANTANEOUS PEAK FLOW			.00
ANNUAL RUNOFF (AC-FT)	4110	2900	2220
10 PERCENT EXCEEDS	8.9	7.9	157600
50 PERCENT EXCEEDS	4.5	4.1	871
90 PERCENT EXCEEDS	3.1	.09	7.1
			.03

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, 5 mi downstream from heading of conveyance channel, 2 mi east of Bernardo, and at mile 1,487.2.

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. 19 years (water years 1974-92), 1,413 ft³/s, 1,024,000 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, 5,130 ft³/s, May 3; minimum daily, 53 ft³/s Sept. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	446	551	1720	953	1130	1170	1870	4900	4120	465	567	932
2	434	607	1550	1120	1130	1220	1820	4960	4060	198	980	873
3	288	854	1510	1100	1140	1300	1940	5130	4440	118	921	397
4	246	895	1550	1110	1140	1270	1860	5100	4170	91	626	218
5	179	1150	1470	1030	1140	1310	2140	4900	3780	133	456	205
6	161	1150	1300	873	1140	1250	2350	4660	3080	212	406	210
7	159	1190	1270	1040	1160	1260	2260	4400	2780	142	309	203
8	146	1370	1390	1280	1160	1220	2500	3730	3200	54	485	116
9	130	1450	1500	1220	1160	1210	2410	3870	3260	108	296	113
10	147	1360	1560	1150	1170	1180	2750	3820	3360	117	357	71
11	153	1340	1650	1230	1170	1610	3080	3660	3220	208	231	53
12	167	1410	1830	1240	1200	2030	3180	3440	3160	294	494	55
13	166	1600	1770	1230	1230	2070	3350	3550	3120	491	1470	68
14	199	1790	1760	1190	1210	2260	3570	3410	3100	563	1130	87
15	180	1720	1630	1210	1180	2240	3880	3060	3110	514	881	175
16	205	2150	1580	1190	1030	2180	3890	3080	2880	356	883	265
17	225	2480	1510	1160	616	2080	3800	3050	2690	304	564	335
18	245	1890	1460	1070	512	2050	3840	3200	2390	270	403	476
19	154	1860	1470	976	512	1980	4260	2910	2360	168	372	567
20	151	1840	1720	1030	523	1920	3980	3090	2360	179	296	815
21	162	1870	1850	1060	549	1860	3730	3460	2160	161	255	1040
22	131	2020	1530	1070	556	1820	3710	3610	2100	183	202	889
23	137	1770	1400	1070	588	1810	3890	3800	2110	151	182	707
24	187	1550	1450	1030	627	1790	4120	3880	1800	240	290	576
25	145	1510	1710	1070	665	1750	4320	3920	1750	789	371	575
26	177	1510	1740	1070	707	1740	4770	4190	1640	1200	522	460
27	254	1520	1650	1080	790	1710	4830	4190	1100	1070	429	448
28	232	1560	1290	1090	1060	1730	4890	4110	703	937	502	455
29	154	1550	1040	1090	1110	1790	4990	4130	576	782	578	450
30	167	1560	1060	1100	---	1810	4990	4580	577	677	660	458
31	394	---	998	1110	---	1830	---	4240	---	583	815	---
TOTAL	6321	45077	46918	34242	27305	52450	102970	122030	79156	11758	16933	12292
MEAN	204	1503	1513	1105	942	1692	3432	3936	2639	379	546	410
MAX	446	2480	1850	1280	1230	2260	4990	5130	4440	1200	1470	1040
MIN	130	551	998	873	512	1170	1820	2910	576	54	182	53
AC-FT	12540	89410	93060	67920	54160	104000	204200	242000	157000	23320	33590	24380
(†)	29400	95640	98220	73330	59590	112800	217600	257800	173400	39830	50510	41070

CAL YR 1991 TOTAL 542649 MEAN 1487 MAX 4450 MIN 66 AC-FT 1076000 (†) MEAN 1672 AC-FT 1211000
WTR YR 1992 TOTAL 557452 MEAN 1523 MAX 5130 MIN 53 AC-FT 1106000 (†) MEAN 1721 AC-FT 1249000

(†) 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.

RIO GRANDE BASIN

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1956 to current year.

WATER TEMPERATURE: October 1964 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1964 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 for 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 1964-92): 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 1975-92): 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, 636 microsiemens, Sept. 11; minimum daily, 349 microsiemens, May 27.

WATER TEMPERATURE: Maximum daily, 34.0°C, Aug. 10; minimum daily, 4.0°C, Jan. 3.

SEDIMENT CONCENTRATION: Maximum daily mean, 10,100 mg/L, Aug. 14; minimum daily mean, 28 mg/L, July 4.

SEDIMENT LOAD: Maximum daily, 77,900 tons, May 9; minimum daily, 5 tons, Sept. 12.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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 DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	
MAR 03...	1430	1300	500	8.2	12.5	10.0	634	8.8	--	160	
11...	1300	2000	485	8.2	18.0	13.0	640	6.2	19	160	
JUN 11...	1400	3050	360	6.8	29.5	24.0	640	6.4	--	130	
JUL 20...	1250	202	530	7.4	32.0	29.0	642	8.4	18	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)	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)
MAR 03...	50	8.2	40	1	4.7	136	79	23	0.60	24	
11...	50	8.1	39	1	4.2	136	80	24	0.50	25	
JUN 11...	41	7.0	23	0.9	3.1	103	68	9.9	0.40	17	
JUL 20...	56	9.5	43	1	4.9	150	91	24	0.50	19	
DATE		SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	
MAR 03...	311	--	--	--	--	--	--	--	--	--	
11...	319	1.17	1.17	0.030	0.030	1.20	1.20	0.030	<0.010		
JUN 11...	231	--	--	--	--	--	--	--	--	--	
JUL 20...	342	0.610	0.610	0.060	0.050	0.670	0.660	0.040	0.020		

RIO GRANDE BASIN

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	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)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	
MAR 03...	--	--	--	--	--	--	--	100	100	
MAR 11...	0.37	0.40	1.6	0.480	0.460	0.440	5.4	100	10	
JUN 11...	--	--	--	--	--	--	--	50	9	
JUL 20...	0.36	0.40	1.1	0.330	0.300	0.290	4.8	100	5	
DATE	TIME	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)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	
MAR 11...	1300	5	4	<1	<1.0	4	<1	10	2	
DATE	TIME	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)	
MAR 11...	6	<1	<0.10	<0.1	1	<1	20	3		
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- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, DISCH, SUSP. + BED MA- TERIAL (T/DAY) (80156)
OCT 01...	1000	441	--	--	--	573	22.0	383	456	661
NOV 20...	1530	1810	355	2.6	1.99	440	15.0	2380	11600	16400
DEC 05...	1320	1460	353	1.8	2.26	--	5.0	1550	6110	8780
DEC 17...	1200	1470	350	1.7	2.44	--	4.5	600	2380	3510
FEB 12...	1430	1170	349	1.7	1.99	--	7.5	357	1130	1700
FEB 18...	1400	477	--	--	--	--	9.0	216	278	436
MAR 03...	1430	1300	352	1.8	3.16	500	10.0	240	842	1280
MAR 11...	1300	2000	--	--	--	485	13.0	713	3850	--
APR 10...	1430	2820	368	2.8	2.76	--	17.0	1910	14500	20300
JUN 17...	1315	2670	350	3.3	2.35	360	24.0	1890	13600	19100
JUL 20...	1250	202	154	1.0	1.30	530	29.0	137	75	122
AUG 20...	1100	317	184	1.2	1.50	--	25.5	267	229	362
SEP 17...	1100	343	190	1.2	1.48	--	22.0	170	157	251

RIO GRANDE BASIN

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	SED. SUSP. SIEVE FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. SIEVE FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. SIEVE FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. SIEVE FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. SIEVE FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. SIEVE FALL DIAM. % FINER THAN 1.00 MM (70346)
OCT 01...	97	--	--	--	--	--	--	--	--
NOV 20...	--	--	--	--	20	25	54	90	100
DEC 05...	--	--	--	0	16	21	63	99	100
DEC 17...	--	--	--	0	38	44	76	100	--
FEB 12...	--	--	--	0	46	55	88	100	--
FEB 18...	--	--	--	0	34	45	98	100	--
MAR 03...	--	--	--	0	79	88	98	100	--
MAR 11...	--	94	98	0	25	33	72	94	--
APR 10...	--	--	--	0	44	52	85	100	--
JUN 17...	--	--	--	--	7	9	74	100	--
JUL 20...	--	--	--	--	30	31	43	98	100
AUG 20...	96	--	--	--	--	--	--	--	--
SEP 17...	--	--	--	--	82	88	99	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 01...	--	--	--	--	--	--	--	--	--
NOV 20...	--	--	--	--	--	--	--	--	--
DEC 05...	7	13	48	73	76	78	79	81	100
DEC 17...	36	68	97	100	--	--	--	--	--
FEB 12...	13	24	64	92	96	97	98	100	--
FEB 18...	2	8	84	100	--	--	--	--	--
MAR 03...	14	24	72	98	100	--	--	--	--
MAR 11...	2	5	50	91	99	100	100	--	--
APR 10...	81	96	99	100	--	--	--	--	--
JUN 17...	--	0	32	92	99	100	--	--	--
JUL 20...	--	0	21	92	100	--	--	--	--
AUG 20...	0	1	27	85	98	100	--	--	--
SEP 17...	0	2	31	80	97	99	100	--	--

RIO GRANDE BASIN

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, NM -- Continued

WATER-QUALITY RECORDS

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	515	605	---	541	517	484	455	383	356	519	479	452
2	503	618	489	517	519	486	454	379	358	522	460	445
3	528	588	489	508	513	477	455	396	361	572	465	498
4	557	586	487	508	518	477	454	382	366	575	491	566
5	570	558	530	511	519	465	440	391	364	545	533	588
6	576	546	575	528	512	475	422	395	362	540	521	571
7	556	543	503	526	522	483	422	382	366	535	528	557
8	559	529	498	501	520	485	418	384	366	553	474	545
9	560	518	493	501	499	477	421	384	364	411	501	589
10	575	514	483	508	504	475	443	379	374	548	479	612
11	557	511	465	519	506	479	436	376	380	542	483	636
12	568	506	489	532	505	482	446	374	379	520	457	630
13	567	502	472	564	495	479	444	370	385	509	---	629
14	568	477	---	517	495	478	444	370	385	499	---	591
15	572	477	526	513	495	471	438	376	383	516	---	544
16	569	478	---	518	502	466	452	376	391	526	---	542
17	570	402	---	550	533	469	447	362	389	532	500	497
18	559	471	---	553	546	472	444	360	396	541	510	520
19	580	494	---	546	570	468	428	374	397	537	513	479
20	604	507	---	530	581	467	414	372	413	538	537	486
21	601	532	---	514	576	472	414	371	416	544	550	461
22	590	543	---	530	583	473	390	372	420	519	553	480
23	609	545	---	516	585	469	387	370	483	545	---	487
24	601	499	---	546	586	471	387	368	445	533	519	503
25	607	489	---	548	549	468	378	368	438	481	511	499
26	606	494	---	537	555	462	384	364	440	473	475	515
27	593	488	---	523	555	455	382	349	469	481	495	525
28	601	---	---	511	478	460	386	354	505	473	500	528
29	611	---	---	509	468	456	386	358	532	485	500	512
30	608	---	---	520	---	458	392	362	502	483	499	524
31	618	---	---	519	---	454	---	350	---	475	462	---
MEAN	576	---	---	525	528	471	422	373	406	518	---	534
MAX	618	---	---	564	586	486	455	396	532	575	---	636
MIN	503	---	---	501	468	454	378	349	356	411	---	445

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.0	12.0	---	8.0	8.0	15.0	15.0	23.0	23.0	28.0	30.0	27.0
2	26.0	14.0	7.0	7.0	12.0	16.0	13.0	22.0	25.0	28.0	29.0	28.0
3	26.0	16.0	8.0	4.0	10.0	13.0	19.0	21.0	24.0	29.0	31.0	29.0
4	25.0	13.0	8.0	6.0	9.0	13.0	20.0	21.0	26.0	27.0	31.0	27.0
5	24.0	14.0	9.0	7.0	12.0	14.0	18.0	21.0	26.0	32.0	32.0	27.0
6	23.0	16.0	10.0	9.0	10.0	15.0	17.0	20.0	27.0	32.0	25.0	28.0
7	24.0	19.0	11.0	7.0	10.0	19.0	22.0	20.0	25.0	33.0	31.0	28.0
8	25.0	16.0	11.0	8.0	11.0	12.0	22.0	22.0	22.0	34.0	30.0	28.0
9	24.0	17.0	13.0	8.0	12.0	12.0	21.0	20.0	25.0	28.0	33.0	29.0
10	25.0	15.0	10.0	7.0	9.0	15.0	22.0	19.0	25.0	36.0	34.0	29.0
11	25.0	16.0	9.0	6.0	13.0	16.0	19.0	20.0	27.0	26.0	32.0	27.0
12	14.0	15.0	9.0	5.0	14.0	17.0	22.0	24.0	27.0	24.0	27.0	24.0
13	24.0	15.0	10.0	7.0	11.0	---	14.0	25.0	27.0	29.0	---	28.0
14	23.0	15.0	---	6.0	8.0	17.0	21.0	25.0	25.0	29.0	---	27.0
15	23.0	13.0	9.0	5.0	9.0	19.0	21.0	25.0	24.0	28.0	---	26.0
16	22.0	13.0	---	5.0	12.0	18.0	19.0	25.0	23.0	30.0	---	29.0
17	22.0	13.0	---	5.0	12.0	17.0	17.0	26.0	25.0	27.0	30.0	29.0
18	23.0	13.0	---	5.0	8.0	15.0	21.0	26.0	28.0	30.0	29.0	28.0
19	21.0	8.0	---	6.0	12.0	17.0	17.0	25.0	27.0	31.0	32.0	21.0
20	20.0	11.0	---	6.0	---	17.0	16.0	23.0	27.0	30.0	30.0	23.0
21	19.0	11.0	---	8.0	14.0	18.0	20.0	24.0	27.0	---	30.0	25.0
22	20.0	11.0	---	9.0	16.0	17.0	20.0	23.0	29.0	29.0	28.0	25.0
23	20.0	10.0	---	8.0	14.0	17.0	21.0	19.0	27.0	26.0	---	26.0
24	20.0	9.0	---	9.0	15.0	18.0	19.0	19.0	27.0	28.0	22.0	28.0
25	20.0	11.0	---	8.0	13.0	19.0	20.0	20.0	25.0	27.0	28.0	26.0
26	20.0	13.0	---	9.0	14.0	19.0	23.0	23.0	28.0	28.0	26.0	24.0
27	18.0	15.0	---	10.0	14.0	18.0	24.0	23.0	29.0	31.0	28.0	27.0
28	14.0	---	---	11.0	15.0	16.0	24.0	24.0	29.0	31.0	27.0	25.0
29	15.0	---	---	11.0	15.0	14.0	24.0	22.0	30.0	31.0	28.0	24.0
30	7.0	---	---	11.0	---	18.0	26.0	22.0	29.0	31.0	28.0	24.0
31	8.0	---	---	12.0	---	17.0	---	25.0	---	26.0	28.0	---
MEAN	20.8	---	---	7.5	---	---	19.9	22.5	26.3	---	---	26.5
MAX	26.0	---	---	12.0	---	---	26.0	26.0	30.0	---	---	29.0
MIN	7.0	---	---	4.0	---	---	13.0	19.0	22.0	---	---	21.0

RIO GRANDE BASIN

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, NM -- Continued

WATER-QUALITY RECORDS

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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	161	194	173	259	522	2420	424	1090	674	2050	391	1230
2	154	181	243	442	675	2820	2280	6770	449	1370	522	1730
3	132	103	310	716	479	1960	4110	12100	375	1150	577	2030
4	143	95	256	620	613	2560	498	1490	734	2250	599	2060
5	132	64	456	1420	523	2080	193	545	1530	4690	604	2130
6	125	55	396	1220	309	1090	162	381	485	1490	578	1950
7	133	57	379	1220	303	1040	196	552	761	2390	1200	4080
8	111	43	500	1870	340	1280	471	1640	453	1420	528	1740
9	76	27	545	2130	321	1300	412	1360	435	1360	343	1120
10	80	32	429	1570	307	1290	350	1080	330	1040	366	1170
11	95	40	425	1540	358	1600	223	739	327	1030	505	2230
12	100	45	425	1620	493	2450	177	593	392	1270	3300	18000
13	92	41	579	2510	485	2320	169	564	493	1630	509	2840
14	94	51	770	3740	386	1840	153	492	540	1760	501	3060
15	84	41	622	2900	305	1340	132	432	510	1620	468	2830
16	95	53	839	5440	253	1080	159	513	373	1050	434	2550
17	105	64	1750	12100	246	998	171	538	275	460	660	3680
18	77	51	861	4390	237	933	134	388	332	457	1480	8180
19	73	30	935	4690	243	969	134	354	371	512	691	3690
20	97	40	899	4460	330	1530	178	499	447	630	713	3690
21	184	80	956	4830	387	1940	267	764	344	512	3070	15500
22	107	38	3700	20300	349	1450	272	784	303	455	1820	8920
23	87	34	3660	17600	319	1210	175	508	513	812	855	4180
24	102	51	1200	5070	301	1180	146	409	1170	1980	2140	10200
25	63	25	570	2330	407	1910	158	455	337	605	5350	25300
26	87	43	476	1950	480	2250	170	494	259	495	1760	8270
27	101	70	489	2000	461	2060	158	463	296	631	889	4090
28	76	48	512	2160	444	1550	170	502	354	1020	1140	5340
29	66	28	486	2030	433	1210	178	526	613	1850	697	3360
30	72	33	473	1990	435	1240	166	491	---	---	541	2640
31	95	101	---	---	440	1180	158	471	---	---	681	3370
TOTAL	---	1858	---	115117	---	50080	---	37987	---	37989	---	161160

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	934	4730	985	13000	606	6740	141	176	385	589	846	2140
2	969	4760	747	10000	584	6420	126	70	484	1300	561	1410
3	1390	7330	1410	19500	1650	19700	42	14	748	1850	218	245
4	915	4590	1180	16300	916	10300	28	6.0	814	1370	167	98
5	1220	7130	1940	25600	774	7910	34	12	548	681	221	123
6	1470	9300	1780	22400	581	4840	67	38	324	360	135	77
7	1070	6520	2300	27200	483	3620	85	32	337	282	85	47
8	1090	7340	4580	45800	631	5500	48	7.0	348	457	63	20
9	962	6270	7430	77900	595	5230	51	15	215	171	61	18
10	912	6790	4430	45700	569	5160	60	21	172	168	77	15
11	1330	11100	3580	35400	526	4560	89	50	130	82	54	7.0
12	936	8020	2050	19200	905	7730	143	125	529	821	39	5.0
13	760	6880	3660	35300	685	5770	203	269	8240	38700	39	7.0
14	1040	10100	2100	19600	4000	33700	207	316	10100	31300	80	19
15	2460	25800	495	4080	2590	21500	195	271	7700	18300	77	35
16	2890	30400	727	6070	499	3870	265	252	7200	17200	3980	2860
17	1970	20300	3310	27300	894	6470	167	139	5040	7840	752	607
18	1660	17300	901	7810	375	2450	278	200	1260	1370	214	277
19	1530	17600	869	6820	442	2820	430	195	609	612	2350	3910
20	1270	13700	720	6000	690	4390	110	53	407	327	1660	3510
21	884	8890	832	7800	616	3580	84	37	285	196	706	1970
22	1140	11400	752	7330	604	3420	121	59	223	122	420	1030
23	757	7920	796	8180	3020	17000	99	40	188	93	261	499
24	1130	12500	783	8190	3480	16900	76	50	299	249	213	331
25	870	10200	803	8500	1280	6120	1170	2800	644	645	203	315
26	1600	20800	873	9870	509	2250	2470	7940	3200	4060	104	132
27	1710	22300	827	9360	294	896	1660	4870	4950	5740	119	145
28	2200	29100	538	5970	481	891	721	1860	4020	5460	178	219
29	1520	20400	660	7380	363	566	1500	3130	2810	4350	173	210
30	1030	13800	896	11100	176	274	931	1670	441	789	236	291
31	---	---	768	8800	---	---	466	735	485	1070	---	---
TOTAL	---	383270	---	563460	---	220577	---	25452.0	---	146554	---	20572.0

TOTAL LOAD FOR YEAR: 1764076.0 TONS.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	79	35	33	e33	70	78	78	153	129	139	147
2	132	49	36	33	e33	61	59	94	142	130	142	137
3	136	44	35	33	e33	45	60	97	144	129	149	162
4	136	42	34	33	e33	45	59	88	145	137	153	160
5	143	41	34	33	e33	45	70	92	141	138	149	157
6	146	41	34	33	33	45	71	96	142	151	149	160
7	141	40	34	31	33	45	65	96	135	149	145	167
8	140	39	34	32	33	45	63	94	129	141	143	148
9	137	38	31	32	46	45	67	93	120	152	146	155
10	143	38	29	32	47	45	81	91	132	152	132	151
11	135	37	33	33	48	45	97	84	138	159	139	149
12	134	37	33	35	47	44	85	91	134	155	143	136
13	133	37	33	34	47	44	84	72	128	155	136	137
14	136	37	32	34	47	45	91	75	123	153	127	143
15	133	38	32	34	47	45	93	89	124	148	139	163
16	129	38	32	34	47	45	98	86	122	152	157	148
17	137	38	32	33	46	44	101	79	125	156	137	152
18	134	37	32	33	45	44	114	71	131	148	144	147
19	137	47	33	33	45	44	92	79	131	151	147	146
20	135	60	34	33	45	50	88	86	136	144	143	133
21	134	61	35	33	44	65	93	83	138	139	138	136
22	131	62	34	32	44	70	82	80	139	148	140	132
23	131	62	33	e32	44	92	79	83	131	148	151	134
24	133	63	33	e32	44	99	80	80	126	153	159	137
25	133	64	34	e32	44	100	93	79	133	142	152	146
26	133	65	34	e32	44	86	85	89	138	141	138	140
27	130	53	35	e32	44	87	92	160	132	150	150	143
28	133	32	34	e32	58	81	82	158	131	153	157	156
29	144	32	33	e32	70	86	80	162	131	144	154	153
30	150	33	33	e33	---	82	81	148	132	142	158	146
31	125	---	33	e33	---	87	---	166	---	133	156	---
TOTAL	4192	1384	1033	1016	1257	1876	2463	3019	4006	4522	4512	4421
MEAN	135	46.1	33.3	32.8	43.3	60.5	82.1	97.4	134	146	146	147
MAX	150	79	36	35	70	100	114	166	153	159	159	167
MIN	118	32	29	31	33	44	59	71	120	129	127	132
AC-FT	8310	2750	2050	2020	2490	3720	4890	5990	7950	8970	8950	8770
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1992, BY WATER YEAR (WY)

	MEAN	30.6	27.5	26.3	26.5	48.5	56.6	58.5	53.0	55.0	64.8	65.6
MAX	145	87.9	74.2	87.7	74.5	96.9	118	129	134	146	146	147
(WY)	1991	1987	1987	1990	1990	1985	1969	1983	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
(WY)	1957	1957	1955	1957	1957	1954	1955	1954	1954	1956	1954	1956

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1954 - 1992

ANNUAL TOTAL	27471	33701	
ANNUAL MEAN	75.3	92.1	49.4
HIGHEST ANNUAL MEAN			92.1
LOWEST ANNUAL MEAN			4.29
HIGHEST DAILY MEAN	157	167	208
LOWEST DAILY MEAN	29	29	.00
ANNUAL SEVEN-DAY MINIMUM	32	32	.00
INSTANTANEOUS PEAK FLOW			208
ANNUAL RUNOFF (AC-FT)	54490	66850	35800
10 PERCENT EXCEEDS	131	151	107
50 PERCENT EXCEEDS	63	88	37
90 PERCENT EXCEEDS	37	33	5.1

RIO GRANDE BASIN

08334000 RIO PUERCO ABOVE ARROYO CHICO, NEAR GUADALUPE, NM

LOCATION.--Lat 35°38'08", long 107°09'56", in SW¼ sec.21, T.16 N., R.3 W., Sandoval County, Hydrologic Unit 13020204, on right bank 1.6 mi upstream from Arroyo Chico, 5.5 mi northeast of village of Guadalupe, and at mile 106.8.

DRAINAGE AREA.--420 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,950 ft above National Geodetic Vertical Datum of 1929. Prior to July 14, 1966, at datum 1.01 ft higher.

REMARKS.--Water-discharge records poor. Diversions for irrigation of about 3,700 acres upstream from station in past years, but present diversion negligible. Several observations of water temperature were made during the year. Satellite telemeter at station. No flow for many days most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 29, 1943, probably exceeded 5,000 ft³/s based on records for stations upstream and downstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	e.00	3.0	1.3	12	108	52	141	133	e.00	e.00	.99
2	.30	e.00	5.0	1.5	36	71	40	156	109	e.00	e.00	.44
3	.28	e.00	7.6	e1.4	69	56	31	140	83	e.00	e.00	.09
4	.20	e.00	5.0	e1.5	99	93	27	139	80	e.00	e.00	e.00
5	e.10	e.00	5.0	e1.7	40	43	31	152	66	e.00	e.00	e.00
6	e.00	e.00	1.9	e1.6	44	91	30	130	64	e.00	e.00	e.00
7	e.00	e.50	1.1	e1.7	47	43	30	101	60	e.00	80	e.00
8	e.00	1.2	.83	e1.7	36	38	36	98	52	e.00	6.6	e.00
9	e.00	1.2	1.0	1.5	34	40	48	110	50	.97	1.0	e.00
10	e.00	1.3	.95	e1.6	41	30	37	236	48	e.00	.19	e.00
11	e.00	1.7	e1.0	e1.8	57	22	55	168	37	.60	43	e.00
12	e.00	3.1	e49	e2.0	52	21	76	100	36	.47	52	e.00
13	e.00	4.5	e13	e2.0	71	18	97	98	31	e.00	8.4	e.00
14	e.00	4.0	e.94	e2.1	139	20	120	114	30	e.00	.42	e.00
15	e.00	37	e.96	e2.0	56	22	152	107	22	e.00	.08	e.00
16	e.00	71	.62	e2.2	32	26	153	104	21	e.00	e.04	e.00
17	e.00	19	e.64	e2.1	17	29	158	86	20	e.00	e.00	e.00
18	e.00	23	.86	e2.2	8.3	32	145	76	17	e.00	e.00	e.00
19	e.00	13	e.90	e2.4	9.0	28	138	71	16	e.00	e.00	.57
20	e.00	9.6	e.94	e3.3	12	24	112	78	13	e.00	e.00	.09
21	e.00	5.3	e.94	e6.0	24	26	80	95	10	e.00	e.00	e.00
22	e.00	7.6	e.98	e8.0	122	30	60	114	8.0	e.00	.63	e.00
23	e.00	e4.6	e.94	e10	170	30	49	115	8.0	e.00	.98	e.00
24	e.00	e4.5	e.92	e14	153	29	42	111	3.0	e.00	178	e.00
25	e.00	e5.0	e.80	e13	64	28	51	190	3.8	e.00	359	e.00
26	e.00	e5.3	e.94	e14	31	27	62	154	3.0	e.00	21	e.00
27	e.00	4.5	e.90	11	17	31	76	102	2.4	e.00	3.6	e.00
28	e.00	4.5	e.92	10	30	40	89	149	.82	e.00	1.3	e.00
29	e.00	5.6	.99	11	109	41	108	145	e.00	e.00	.46	e.00
30	e.00	4.5	.75	10	---	41	135	157	e.00	e.00	.15	e.00
31	.86	---	e.80	10	---	39	---	166	---	e.00	.07	---
TOTAL	2.09	241.50	110.12	154.6	1631.3	1217	2320	3903	1027.02	2.04	756.92	2.18
MEAN	.067	8.05	3.55	4.99	56.3	39.3	77.3	126	34.2	.066	24.4	.073
MAX	.86	71	49	14	170	108	158	236	133	.97	359	.99
MIN	.00	.00	.62	1.3	8.3	18	27	71	.00	.00	.00	.00
AC-FT	4.1	479	218	307	3240	2410	4600	7740	2040	4.0	1500	4.3

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1992, BY WATER YEAR (WY)

	MEAN	8.28	3.23	1.56	2.12	12.6	16.4	19.6	38.2	14.4	15.2	24.2	11.7
MAX	129	28.2	15.9	23.6	79.2	161	99.3	236	98.4	78.4	101	90.3	
(WY)	1958	1987	1987	1979	1979	1960	1958	1973	1973	1955	1957	1972	
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1953	1953	1953	1953	1953	1953	1964	1964	1953	1959	1962	1952	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1952 - 1992
ANNUAL TOTAL	8697.87	11367.77	
ANNUAL MEAN	23.8	31.1	14.0
HIGHEST ANNUAL MEAN			48.6
LOWEST ANNUAL MEAN			1.11
HIGHEST DAILY MEAN	779	359	2000
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		814	a6940
INSTANTANEOUS PEAK STAGE		4.26	13.53
ANNUAL RUNOFF (AC-FT)	17250	22550	10130
10 PERCENT EXCEEDS	54	108	37
50 PERCENT EXCEEDS	4.5	4.5	.10
90 PERCENT EXCEEDS	.00	.00	.00

a-From rating curve extended above 1,300 ft³/s on basis of slope-area measurements at gage height 7.75 ft and 10.60 ft.

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, 79,100 mg/L, Aug. 25; minimum daily mean, no flow on many days.

SEDIMENT LOADS: Maximum daily, 76,600 tons, Aug. 25; minimum daily, 0 ton on many days.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
APR							
09...	1035	51	899	11.0	29800	4110	55
28...	1240	84	696	17.5	32900	7470	68
MAY							
11...	1200	175	628	--	38800	18300	79
19...	1015	83	755	--	31100	6970	66

RIO GRANDE BASIN

08334000 RIO PUERCO ABOVE ARROYO CHICO, NEAR GUADALUPE, NM -- Continued

WATER-QUALITY RECORDS

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4630	4.4	0	.00	11200	91	8780	31	11900	384	12200	3550
2	4410	3.6	0	.00	11100	150	9650	39	13100	1270	11700	2240
3	3490	2.6	0	.00	12500	256	9120	34	14400	2690	11800	1780
4	3010	1.6	0	.00	10800	145	9790	40	15800	4220	11700	2940
5	2440	.66	0	.00	10600	143	14700	68	13800	1490	10700	1240
6	0	.00	0	.00	10800	55	14000	61	13200	1570	11600	2860
7	0	.00	3800	5.1	11500	34	16800	77	13000	1650	11000	1280
8	0	.00	5280	17	11200	25	15300	70	11200	1090	10900	1110
9	0	.00	5000	16	11500	31	13400	54	10600	972	12900	1390
10	0	.00	5140	18	11800	30	13400	58	11000	1220	21200	1720
11	0	.00	5130	24	11900	32	13700	67	11200	1730	21500	1280
12	0	.00	5980	50	27800	3670	13000	70	11500	1610	20500	1160
13	0	.00	9720	118	28900	1010	9750	53	11000	2100	20400	993
14	0	.00	9460	102	26200	67	8020	45	11600	4370	19400	1050
15	0	.00	24400	2430	25300	66	6390	35	11200	1690	18000	1070
16	0	.00	37600	7200	20100	34	5650	34	10600	913	18200	1280
17	0	.00	31300	1600	17400	30	5910	34	10100	465	20700	1620
18	0	.00	31400	1950	12500	29	5570	33	8780	197	19700	1710
19	0	.00	31200	1090	10800	26	5200	34	7660	186	17800	1350
20	0	.00	29800	772	10300	26	4530	40	6940	225	17700	1140
21	0	.00	25800	369	10400	26	4200	68	7770	503	19200	1350
22	0	.00	27500	564	10700	28	4830	104	11700	3850	20200	1630
23	0	.00	23800	295	10300	26	4140	112	13000	5990	19400	1570
24	0	.00	21000	255	10400	26	4040	153	13100	5400	19200	1500
25	0	.00	16300	220	10400	22	4490	158	11900	2050	20200	1530
26	0	.00	14000	201	10500	27	7800	295	11200	937	18700	1370
27	0	.00	13500	164	10800	26	10400	308	9780	449	20400	1710
28	0	.00	13000	158	10400	26	11300	306	11100	897	22100	2390
29	0	.00	12800	194	10200	27	12400	369	12100	3550	22000	2430
30	0	.00	12900	157	9630	19	11200	304	---	---	20900	2310
31	9060	21	---	---	9580	21	11600	313	---	---	20600	2160
TOTAL	---	33.86	---	17969.10	---	6224	---	3467	---	53668	---	52713

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)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	22900	3220	35600	13600	31700	11400	0	.00	0	.0	33700	90
2	21800	2360	38500	16200	29100	8560	0	.00	0	.0	29900	35
3	20900	1750	37700	14300	26500	5930	0	.00	0	.0	20800	5.1
4	21400	1560	43500	16300	24600	5320	0	.00	0	.0	0	.00
5	20900	1750	43100	17700	23300	4160	0	.00	0	.0	0	.00
6	21000	1700	39200	13700	23000	3980	0	.00	0	.0	0	.00
7	21700	1760	36600	9980	22500	3650	0	.00	47600	10300	0	.00
8	23300	2260	35800	9460	22400	3140	0	.00	35000	624	0	.00
9	29100	3770	36400	10800	22100	2990	6330	17	25700	69	0	.00
10	29900	2990	40200	25600	21100	2740	0	.00	19800	10	0	.00
11	30400	4510	36700	16600	20500	2050	4030	6.5	42000	4880	0	.00
12	30700	6290	34600	9330	19100	1860	3190	4.0	58200	8170	0	.00
13	31900	8350	33300	8820	17900	1500	0	.00	46700	1060	0	.00
14	31800	10300	33800	10400	17200	1390	0	.00	34500	39	0	.00
15	31900	13100	34300	9920	16600	983	0	.00	26200	5.7	0	.00
16	30900	12800	35900	10100	16000	910	0	.00	21100	2.3	0	.00
17	31300	13300	35700	8280	15200	818	0	.00	0	.0	0	.00
18	30700	12000	34400	7060	13700	628	0	.00	0	.0	0	.00
19	30700	11400	32700	6260	12900	555	0	.00	0	.0	27700	43
20	30300	9150	33100	6970	11600	409	0	.00	0	.0	26800	6.5
21	29500	6370	32900	8440	9360	253	0	.00	0	.0	0	.00
22	30500	4940	38600	11900	6720	145	0	.00	7480	13	0	.00
23	30200	4000	37600	11700	5470	118	0	.00	34600	92	0	.00
24	30600	3470	33400	10000	4140	34	0	.00	68000	32700	0	.00
25	31700	4370	38600	19800	5220	54	0	.00	79100	76600	0	.00
26	32400	5420	37500	15600	4140	34	0	.00	47700	2700	0	.00
27	33000	6770	35400	9760	3530	23	0	.00	40100	390	0	.00
28	32400	7790	35600	14300	1140	2.5	0	.00	33600	118	0	.00
29	33600	9810	32900	12900	0	.00	0	.00	27200	34	0	.00
30	35000	12800	32800	13900	0	.00	0	.00	22400	9.1	0	.00
31	---	---	33200	14900	---	---	0	.00	19600	3.7	---	---
TOTAL	---	190060	---	384580	---	63636.50	---	27.50	---	137819.8	---	179.60

TOTAL LOAD FOR YEAR: 910378.36 TONS.

RIO GRANDE BASIN

08341300 BLUEWATER CREEK ABOVE BLUEWATER DAM, NEAR BLUEWATER, NM

LOCATION.--Lat 35°16'04", long 108°06'50", SW¼SW¼, sec. 16, T.12 N., R.12 W., Cibola County, Hydrologic Unit 13020207, on left bank 2.0 mi south of Bluewater Dam, and 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) above National Geodetic Vertical Datum of 1929, July 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,410 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	.63	e1.4	e.68	e.38	17	69	2.1	e2.6	.34	.40	.71
2	.24	.65	e1.3	e.64	e.52	27	58	2.1	e2.4	.31	.55	.62
3	.19	.64	e1.3	e.59	e.53	40	49	2.4	e2.1	.27	.61	.52
4	.20	.71	e1.2	e.54	e.54	41	45	2.3	e2.0	.22	.56	.44
5	.19	.76	e1.2	e.52	e.63	33	41	2.5	e1.9	.21	.45	.38
6	.24	.79	e1.2	e.48	e.71	33	39	3.1	e1.8	.17	.36	.34
7	.25	.79	e1.1	e.48	e1.0	41	37	4.5	e1.7	.18	.42	.26
8	.22	.79	e1.1	e.46	e1.3	47	35	4.2	e1.6	.12	.47	.23
9	.24	.79	e1.1	e.45	e1.7	36	31	4.1	e1.5	.11	.46	.20
10	.23	.86	e1.0	e.44	e1.9	31	28	5.7	e1.5	.17	.43	.18
11	.24	1.2	e1.0	e.43	3.3	34	25	5.2	e1.4	.45	.57	.19
12	.26	1.1	e1.0	e.43	3.7	33	22	2.9	e1.3	.59	1.9	.15
13	.22	1.1	e.90	e.42	4.0	42	20	2.2	e1.1	.59	.81	.14
14	.23	1.1	e.90	e.42	4.1	55	21	1.8	e1.0	.49	.62	.15
15	.24	1.1	e.80	e.43	3.6	66	17	1.6	e.93	.44	.56	.25
16	.24	1.1	e.80	e.43	3.6	64	15	1.3	e.89	.43	.45	.21
17	.23	1.2	e.88	e.44	2.9	65	13	1.1	e.80	.41	.37	.17
18	.22	1.2	1.5	e.46	3.0	54	11	1.2	e.73	.45	.27	.16
19	.22	1.1	1.7	e.46	3.1	40	9.9	1.5	e.68	.53	.23	.31
20	.26	.98	e1.4	e.45	3.0	37	8.5	1.8	e.68	.48	.18	.43
21	.30	.97	e1.2	e.45	3.6	44	7.4	4.2	e.63	.36	.13	.37
22	.35	.89	e1.1	e.48	4.0	46	6.3	5.2	e.60	.36	.14	.32
23	.41	.80	e1.0	e.50	6.2	41	5.2	3.7	e.64	.47	.24	.28
24	.43	.79	e.96	e.46	6.0	40	4.4	4.0	e.65	.71	8.6	.24
25	.43	.77	e.83	e.44	6.2	40	4.0	4.8	.65	1.6	13	.20
26	.45	.79	e.80	e.48	7.0	41	3.6	e7.2	.83	1.8	4.5	.16
27	.50	.79	e.75	e.50	7.1	42	3.4	e5.6	.74	.81	2.4	.12
28	.57	.81	e.62	e.52	8.8	61	3.2	e4.5	.62	.62	1.4	.11
29	.54	.94	e.76	e.56	11	65	2.7	e3.8	.51	.49	1.0	.11
30	.59	e1.4	e.74	e.43	---	60	2.4	e3.4	.42	.40	.88	.11
31	.63	---	e.73	e.40	---	75	---	e3.0	---	.38	.76	---
TOTAL	9.82	27.54	32.27	14.87	103.41	1391	637.0	103.0	34.90	14.96	43.72	8.06
MEAN	.32	.92	1.04	.48	3.57	44.9	21.2	3.32	1.16	.48	1.41	.27
MAX	.63	1.4	1.7	.68	11	75	69	7.2	2.6	1.8	13	.71
MIN	.19	.63	.62	.40	.38	17	2.4	1.1	.42	.11	.13	.11
AC-FT	19	55	64	29	205	2760	1260	204	69	30	87	16
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	.19	.39	.44	.28	2.76	34.1	25.9	2.08	.78	.47	1.01	.22
MAX	.32	.92	1.04	.48	4.20	57.0	56.0	3.32	1.16	.85	1.73	.27
(WY)	1992	1992	1992	1992	1991	1991	1991	1992	1992	1991	1989	1991
MIN	.093	.055	.050	.091	.48	.55	.43	.37	.077	.076	.023	.059
(WY)	1991	1991	1991	1991	1990	1990	1990	1990	1990	1990	1990	1990

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1989 - 1992

ANNUAL TOTAL	3808.36	2420.55	
ANNUAL MEAN	10.4	6.61	5.71
HIGHEST ANNUAL MEAN			10.3
LOWEST ANNUAL MEAN			.24
HIGHEST DAILY MEAN	331	75	331
LOWEST DAILY MEAN	.07	.11	.00
ANNUAL SEVEN-DAY MINIMUM	.08	.15	.00
INSTANTANEOUS PEAK FLOW		97	
INSTANTANEOUS PEAK STAGE		2.47	
ANNUAL RUNOFF (AC-FT)	7550	4800	4130
10 PERCENT EXCEEDS	31	32	9.9
50 PERCENT EXCEEDS	.88	.80	.42
90 PERCENT EXCEEDS	.12	.23	.06

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 mi.

PERIOD OF RECORD.--July 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,415 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for periods of estimated daily discharges, which are poor. No flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	e.00	e.00	e.00	14	66	1.8	2.5	.00	.00	.00
2	.00	.00	e.00	e.00	e.00	19	61	1.7	2.1	.00	.00	.00
3	.00	.00	e.00	e.00	e.00	45	51	1.7	1.8	.00	.00	.00
4	.00	.00	e.00	e.00	e.00	38	46	2.3	1.7	.00	.00	.00
5	.00	.00	e.00	e.00	e.00	25	40	2.4	1.6	.00	.00	.00
6	.00	.00	e.00	e.00	e.00	20	37	2.5	1.3	.00	.00	.00
7	.00	.00	e.00	e.00	e.00	23	37	3.8	1.1	.00	.00	.00
8	.00	.00	e.00	e.00	e.00	29	30	4.7	1.1	.00	.00	.00
9	.00	.00	e.00	e.00	e.00	23	23	3.8	1.1	.00	.00	.00
10	.00	.00	e.00	e.00	e.00	18	19	6.9	1.2	.00	.00	.00
11	.00	.00	e.00	e.00	e.00	19	15	6.2	1.1	.00	.00	.00
12	.00	.04	e.00	e.00	e.00	18	12	3.3	.97	.00	.00	.00
13	.00	.03	e.00	e.00	e.00	21	10	2.5	.79	.00	.00	.00
14	.00	.06	e.00	e.00	e.00	29	11	2.1	.63	.00	.00	.00
15	.00	.09	e.00	e.00	e.00	37	8.7	1.9	.43	.00	.00	.00
16	.00	.14	e.00	e.00	e.00	43	7.8	1.6	.25	.00	.00	.00
17	.00	.10	e.00	e.00	e.00	46	6.5	1.4	.11	.00	.00	.00
18	.00	.10	e.00	e.00	e.00	35	5.6	1.3	.03	.00	.00	.00
19	.00	.07	e.00	e.00	e.00	23	5.0	1.4	.00	.00	.00	.00
20	.00	.05	e.00	e.00	e.00	22	4.3	1.6	.00	.00	.00	.00
21	.00	.06	e.00	e.00	e.00	29	3.9	3.0	.00	.00	.00	.00
22	.00	.06	e.00	e.00	e3.5	30	3.7	4.3	.00	.00	.00	.00
23	.00	.05	e.00	e.00	e4.0	24	3.3	3.1	.00	.01	.00	.00
24	.00	.03	e.00	e.00	5.0	26	3.0	4.2	.00	.50	19	.00
25	.00	e.02	e.00	e.00	4.4	31	2.8	9.0	.00	2.1	6.7	.00
26	.00	e.01	e.00	e.00	3.9	38	2.5	9.4	.00	.38	1.9	.00
27	.00	e.00	e.00	e.00	4.2	41	2.4	6.9	.00	.05	.97	.00
28	.00	e.00	e.00	e.00	6.5	53	2.2	4.4	.00	.00	.53	.00
29	.00	e.00	e.00	e.00	9.7	74	2.1	3.5	.00	.00	.28	.00
30	.00	e.00	e.00	e.00	---	74	1.9	2.9	.00	.00	.05	.00
31	.00	---	e.00	e.00	---	82	---	2.7	---	.00	.00	---
TOTAL	0.00	0.91	0.00	0.00	41.20	1049	523.7	108.3	19.81	3.04	29.43	0.00
MEAN	.000	.030	.000	.000	1.42	33.8	17.5	3.49	.66	.098	.95	.000
MAX	.00	.14	.00	.00	9.7	82	66	9.4	2.5	2.1	19	.00
MIN	.00	.00	.00	.00	.00	14	1.9	1.3	.00	.00	.00	.00
AC-FT	.00	1.8	.00	.00	82	2080	1040	215	39	6.0	58	.00
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	.000	.010	.000	.006	.92	22.6	26.7	1.41	.25	.054	.39	.009
MAX	.000	.030	.000	.017	1.42	34.1	62.8	3.49	.66	.098	.95	.033
(WY)	1990	1992	1990	1991	1992	1991	1992	1992	1992	1992	1992	1990
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.013	.016	.006	.000
(WY)	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990	1991

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1989 - 1992

ANNUAL TOTAL	3013.33	1775.39	
ANNUAL MEAN	8.26	4.85	
HIGHEST ANNUAL MEAN			4.37
LOWEST ANNUAL MEAN			8.25
HIGHEST DAILY MEAN	244	82	.006
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		101	a475
INSTANTANEOUS PEAK STAGE		3.51	4.85
ANNUAL RUNOFF (AC-FT)	5980	3520	3170
10 PERCENT EXCEEDS	18	19	5.0
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

a-From rating curve extended above 1.00 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, 11,620 acre-ft, April 23, 24, and 26, elevation, 7,385.9 ft; minimum, 4,420 acre-ft, Jan. 6 and 8 elevation, 7,368.5 ft.

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	7,369.4	4,760	-----
Oct. 31	7,368.6	4,450	- 310
Nov. 30	7,368.5	4,420	- 30
Dec. 31	7,368.5	4,420	0
CAL YR 1991			+ 180
Jan. 31	7,368.6	4,450	+ 30
Feb. 28	7,369.6	4,840	+ 390
Mar. 31	7,378.2	9,600	+4,760
Apr. 30	7,380.7	11,470	+1,870
May 31	7,378.5	9,820	-1,650
June 30	7,375.5	7,810	-2,010
July 31	7,372.1	5,930	-1,880
Aug. 31	7,370.2	5,080	- 850
Sept. 30	7,369.6	4,840	- 240
WTR YR 1992			+ 80

WATER-QUALITY RECORDS

REMARKS.--Samples for chemical analyses are collected 300 ft upstream from Bluewater Dam near Shore.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

[illegible]

RIO GRANDE BASIN

08341500 BLUEWATER CREEK BELOW BLUEWATER DAM, NM

LOCATION.--Lat 35°18'13", long 108°05'56", in NW¼NW¼ 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.

DRAINAGE AREA.--201 mi².

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	1.0	.80	.64	.69	.64	2.2	7.5	26	41	15	10
2	12	1.0	.77	.61	.71	.68	2.1	10	26	39	17	10
3	7.3	.95	.75	.59	.74	.76	2.2	12	28	39	20	8.1
4	5.2	.90	.78	.64	.71	.69	2.2	23	29	38	23	.66
5	3.4	.88	.78	.62	.72	.64	2.3	33	28	34	25	.48
6	3.2	.90	.80	.66	.74	.67	2.5	38	28	38	25	.47
7	3.1	.87	.80	.65	.72	.67	2.5	35	28	40	24	.45
8	3.0	.84	.78	.65	.78	.75	2.6	30	27	43	22	.46
9	3.4	.84	.78	.63	.73	.72	2.6	28	27	42	21	.46
10	3.6	1.1	.77	.61	.74	.75	2.6	26	31	40	19	.49
11	3.6	1.1	.89	.60	.72	.78	2.6	25	27	39	18	.50
12	3.6	.92	.85	.62	.72	.81	2.6	25	27	32	15	.52
13	3.7	.91	.78	.62	.78	.86	2.6	25	27	28	15	.56
14	3.7	1.0	.75	.63	.71	.90	2.6	28	28	27	14	.59
15	2.9	.99	.75	.63	.69	1.0	2.5	32	32	26	12	.68
16	.96	.98	.73	.62	.72	1.0	2.6	33	35	25	12	.66
17	.90	.93	.71	.58	.70	1.2	2.6	33	34	23	12	.66
18	.89	.90	.74	.56	.66	1.2	2.5	32	36	22	11	.67
19	.87	.86	.78	.54	.68	1.3	2.5	33	38	22	7.9	1.0
20	.90	.78	.75	.55	.70	1.4	2.4	37	36	22	7.6	.84
21	.90	.79	.75	.57	.72	1.5	2.4	34	35	21	7.8	.77
22	.91	.78	.70	.53	.70	1.6	2.4	29	35	21	9.4	.79
23	.90	.73	.67	.52	.72	1.6	2.3	27	39	22	11	.81
24	.92	.75	.67	.54	.68	1.7	2.4	27	43	23	12	.85
25	.94	.82	.69	.60	.67	1.8	2.4	25	43	22	9.8	.82
26	.93	.81	.72	.63	.67	1.8	2.3	19	42	22	8.9	.78
27	.91	.78	.72	.63	.67	1.9	2.2	19	42	21	9.1	.77
28	.98	.72	.72	.66	.67	2.0	2.2	19	41	18	9.3	.75
29	.96	.77	.71	.69	.64	2.0	2.2	23	44	16	9.4	.75
30	1.1	.77	.69	.71	---	2.0	3.0	26	45	16	9.7	.72
31	1.1	---	.72	.69	---	2.3	---	26	---	15	9.9	---
TOTAL	95.77	26.37	23.30	19.02	20.50	37.62	73.1	819.5	1007	877	441.8	46.06
MEAN	3.09	.88	.75	.61	.71	1.21	2.44	26.4	33.6	28.3	14.3	1.54
MAX	19	1.1	.89	.71	.78	2.3	3.0	38	45	43	25	10
MIN	.87	.72	.67	.52	.64	.64	2.1	7.5	26	15	7.6	.45
AC-FT	190	52	46	38	41	75	145	1630	2000	1740	876	91

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)
1989	1.37	3.09	.49	1990
1990	.67	.88	.51	1991
1991	.61	.79	.28	1992
1992	.58	.74	.39	1993
1993	.63	.72	.45	1994
1994	1.07	1.32	.68	1995
1995	2.27	3.74	.62	1996
1996	23.2	42.5	.65	1997
1997	20.3	33.6	.46	1998
1998	22.2	37.8	.48	1999
1999	14.0	40.5	.48	2000
2000	6.76	24.5	.39	2001
2001				2002

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1989 - 1992
ANNUAL TOTAL	5611.16	3487.04	
ANNUAL MEAN	15.4	9.53	8.41
HIGHEST ANNUAL MEAN			15.1
LOWEST ANNUAL MEAN			.61
HIGHEST DAILY MEAN	59 May 25	45 Jun 30	59 May 25 1991
LOWEST DAILY MEAN	.35 Jan 12	.45 Sep 7	.14 Dec 9 1990
ANNUAL SEVEN-DAY MINIMUM	.36 Jan 12	.47 Sep 5	.17 Dec 5 1990
INSTANTANEOUS PEAK FLOW		83 Jul 11	a83 Jul 11 1992
INSTANTANEOUS PEAK STAGE		3.31 Jul 11	3.31 Jul 11 1992
ANNUAL RUNOFF (AC-FT)	11130	6920	6090
10 PERCENT EXCEEDS	42	32	33
50 PERCENT EXCEEDS	3.5	1.3	.74
90 PERCENT EXCEEDS	.42	.64	.41

a-From rating curve extended above 50 ft³/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 at bridge on 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.

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 1991 TO SEPTEMBER 1992
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	e.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
7	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	e.00	e.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
21	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	e.00	e.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22	e.00	e.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	e.00	e.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	e.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.22	0.00	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.004	.000	.007	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.06	.00	.22	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.2	.00	.4	.00	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1992, BY WATER YEAR (WY)

	MEAN	.22	.003	.000	.000	.000	.27	7.03	2.20	.001	.11	.20	.32
MAX	2.51	.061	.000	.000	.000	.000	6.30	87.0	22.5	.017	1.20	1.37	5.49
(WY)	1970	1980	1969	1969	1969	1969	1985	1980	1983	1981	1981	1979	1972
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1969	1969	1969	1969	1969	1969	1969	1969	1969	1968	1968	1969	1968

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1968 - 1992

ANNUAL TOTAL	3.47	0.33	
ANNUAL MEAN	.010	.001	
HIGHEST ANNUAL MEAN			.86
LOWEST ANNUAL MEAN			8.10
HIGHEST DAILY MEAN	2.8	.22	355
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		5.2	a1760
INSTANTANEOUS PEAK STAGE		1.68	5.35
ANNUAL RUNOFF (AC-FT)	6.9	.7	623
10 PERCENT EXCEEDS	.00	.00	.00
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

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 NE¼NE¼ sec.25, T.11 N., R.10 W., Cibola County, Hydrologic Unit 13020207, on upstream side of culvert under Roosevelt Avenue, in Grants, 0.2 mi east of intersection of Roosevelt 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 1991 TO SEPTEMBER 1992
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	4.3	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	2.7	.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	.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	5.2	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.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
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	5.24	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.23	.000	.000	.17	.000
MAX	.00	.00	.00	.00	.00	.00	.00	4.3	.00	.00	5.2	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	14	.00	.00	10	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1962	.15	2.28	1973	.000	1964
1963	.001	.015	1980	.000	1963
1964	.001	.013	1966	.000	1963
1965	.001	.039	1963	.000	1962
1966	.000	.000	1962	.000	1962
1967	.000	.015	1978	.000	1962
1968	.000	.003	1968	.000	1962
1969	.024	.32	1970	.000	1962
1970	.030	.28	1966	.000	1962
1971	.23	1.25	1977	.000	1968
1972	.61	3.49	1963	.000	1978
1973	.32	3.80	1967	.000	1966

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1962 - 1992

ANNUAL TOTAL	4.10	12.24	
ANNUAL MEAN	.011	.033	.12
HIGHEST ANNUAL MEAN			.56
LOWEST ANNUAL MEAN			.001
HIGHEST DAILY MEAN	4.1 Aug 4	5.2 Aug 24	80 Sep 8 1967
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Jan 1 1962
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00 Jan 1 1962
INSTANTANEOUS PEAK FLOW		21 May 3	a1550 Aug 26 1936
INSTANTANEOUS PEAK STAGE		.64 May 3	b5.10 Aug 26 1936
ANNUAL RUNOFF (AC-FT)	8.1	24	85
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.--Records good except for estimated daily discharges, which are fair. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e5.2	5.7	4.1	4.9	5.6	5.6	5.0	3.7	4.1	3.8	3.8	2.8
2	e5.0	6.7	4.1	4.7	5.6	5.8	5.1	3.7	4.0	3.9	4.0	2.9
3	e4.8	5.8	4.5	4.5	5.6	5.9	4.8	3.9	4.0	3.9	4.1	3.0
4	e5.0	5.6	4.7	5.3	5.5	5.8	4.8	4.5	4.2	3.9	4.3	3.2
5	e5.2	5.4	4.9	5.5	5.4	5.4	4.8	5.0	4.1	4.0	4.3	3.3
6	e4.9	5.3	5.2	6.2	5.4	5.4	4.8	4.6	4.1	4.1	4.3	3.4
7	e5.2	5.4	5.3	5.5	5.5	5.5	4.8	6.4	4.2	4.1	4.4	3.5
8	e5.4	5.3	5.1	5.4	5.7	5.4	4.8	6.6	4.6	17	4.4	3.4
9	e5.1	5.2	4.9	5.1	5.9	5.5	4.7	4.8	4.6	4.0	4.4	3.4
10	5.0	5.1	4.7	5.0	6.1	5.6	4.7	4.6	4.7	2.6	4.3	3.6
11	5.1	5.5	5.9	5.6	5.9	5.2	4.8	5.1	4.8	2.7	4.4	3.7
12	5.3	5.1	8.3	5.4	6.0	5.1	5.0	4.2	4.5	3.3	4.1	3.7
13	5.5	5.7	6.9	5.2	6.1	5.0	4.8	3.8	4.5	3.0	4.0	3.8
14	4.9	6.0	4.6	5.3	6.5	5.1	5.3	3.8	4.5	2.9	3.9	3.7
15	5.7	6.8	4.6	5.0	6.6	5.1	5.5	4.1	4.3	3.1	3.7	26
16	5.5	6.2	4.6	4.7	6.3	5.2	5.2	4.0	4.2	3.2	3.5	4.8
17	5.9	6.7	4.8	4.7	5.8	5.1	5.0	3.9	3.9	3.3	3.4	2.6
18	5.7	6.5	5.0	4.8	5.3	5.1	4.9	4.0	3.8	3.4	3.1	2.6
19	5.1	5.4	6.0	4.8	5.4	5.2	4.5	4.1	3.9	3.5	2.9	5.7
20	4.9	5.2	7.1	4.8	5.4	5.2	4.2	4.4	4.0	3.7	3.0	5.6
21	5.0	5.4	6.1	5.2	5.4	5.1	4.4	5.3	4.1	3.8	2.7	4.5
22	5.1	5.3	5.5	5.4	5.4	5.1	4.4	7.4	4.4	3.8	2.8	3.4
23	5.3	4.8	5.1	5.4	5.4	4.9	4.3	5.8	4.3	11	2.8	3.1
24	5.1	5.0	5.0	5.6	5.4	4.9	4.0	5.9	4.4	2.9	8.1	3.0
25	6.0	5.7	5.0	6.2	5.5	4.8	3.9	5.7	4.2	2.9	5.0	3.1
26	5.2	5.4	5.2	6.5	5.5	4.9	4.0	4.6	4.0	3.2	5.9	3.0
27	5.1	5.2	5.1	6.7	5.5	5.0	3.9	4.4	3.8	3.1	2.8	3.0
28	5.0	5.3	5.2	6.4	5.5	5.2	3.9	4.2	3.8	3.2	2.6	2.8
29	6.1	5.1	5.2	6.1	5.5	5.1	3.9	3.9	3.9	3.4	2.5	2.6
30	5.4	4.6	5.1	5.9	---	5.5	3.7	4.2	3.8	3.6	2.6	2.7
31	5.6	---	5.3	5.7	---	5.1	---	4.1	---	3.6	2.7	---
TOTAL	163.3	166.4	163.1	167.5	164.7	162.8	137.9	144.7	125.7	127.9	118.8	125.9
MEAN	5.27	5.55	5.26	5.40	5.68	5.25	4.60	4.67	4.19	4.13	3.83	4.20
MAX	6.1	6.8	8.3	6.7	6.6	5.9	5.5	7.4	4.8	17	8.1	26
MIN	4.8	4.6	4.1	4.5	5.3	4.8	3.7	3.7	3.8	2.6	2.5	2.6
AC-FT	324	330	324	332	327	323	274	287	249	254	236	250
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1992, BY WATER YEAR (WY)

	MEAN	5.73	5.40	5.32	5.69	5.85	5.75	8.59	8.42	5.53	6.86	9.54	6.76
MAX	16.6	9.76	7.82	10.5	11.6	11.4	91.3	128	10.2	24.0	53.2	24.6	24.6
(WY)	1973	1980	1978	1945	1944	1985	1980	1941	1957	1957	1957	1975	1975
MIN	2.43	4.14	3.97	3.84	4.49	3.96	3.61	4.04	3.70	3.63	3.34	3.52	3.52
(WY)	1990	1974	1974	1984	1965	1966	1991	1966	1967	1966	1990	1990	1990

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1937 - 1992

ANNUAL TOTAL	2124.8	1768.7	6.63	
ANNUAL MEAN	5.82	4.83	19.3	1941
HIGHEST ANNUAL MEAN			4.38	1966
LOWEST ANNUAL MEAN				
HIGHEST DAILY MEAN	45	Aug 6	538	Aug 30 1957
LOWEST DAILY MEAN	2.8	May 15	2.2	Oct 17 1989
ANNUAL SEVEN-DAY MINIMUM	3.2	Apr 19	2.3	Oct 12 1989
INSTANTANEOUS PEAK FLOW			a1400	Sep 20 1963
INSTANTANEOUS PEAK STAGE			4.87	Sep 20 1963
INSTANTANEOUS LOW FLOW			1.9	Feb 21 1973
ANNUAL RUNOFF (AC-FT)	4210	3510	4800	
10 PERCENT EXCEEDS	7.5	5.9	7.2	
50 PERCENT EXCEEDS	5.4	4.9	5.1	
90 PERCENT EXCEEDS	3.8	3.3	4.3	

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 1991 TO SEPTEMBER 1992

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 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)
OCT 09...	0904	4.7	1250	7.8	14.5	13.0	619	6.6	17	K37	K92	350
JAN 15...	1400	5.4	1620	8.1	-2.0	11.0	596	7.9	21	K24	K16	--
MAR 18...	0900	5.1	1500	8.2	9.0	10.5	600	9.7	20	K7	K31	430
MAY 21...	1300	5.1	1680	8.6	20.0	19.0	606	7.4	26	K44	140	--
JUL 27...	1100	3.0	1010	8.5	28.0	19.0	610	7.4	16	46	130	340
SEP 22...	1100	3.4	1160	7.9	20.0	16.0	610	8.4	11	64	190	--
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- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
OCT 09...	120	80	37	130	3	6.6	281	0	230	290	110	
JAN 15...	--	--	--	--	--	--	279	0	229	--	--	
MAR 18...	190	90	49	180	4	8.4	293	0	240	370	150	
MAY 21...	--	--	--	--	--	--	282	18	261	--	--	
JUL 27...	140	78	35	110	3	5.1	242	1	200	280	84	
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)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	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 DIS- SOLVED TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED TOTAL (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT 09...	0.40	28	826	1.08	0.980	0.020	0.020	1.10	1.00	0.060	0.050	0.24
JAN 15...	--	--	--	1.06	1.18	0.040	0.020	1.10	1.20	1.90	1.80	0.70
MAR 18...	0.50	23	1020	0.930	0.980	0.020	0.020	0.950	1.00	0.110	0.100	0.19
MAY 21...	--	--	--	0.760	0.760	0.030	0.030	0.790	0.790	0.050	0.040	0.45
JUL 27...	0.80	31	748	0.740	--	0.010	<0.010	0.750	0.730	0.030	0.020	--
SEP 22...	--	--	--	0.810	--	0.010	<0.010	0.820	0.810	0.040	0.030	--

RIO GRANDE BASIN

08343500 RIO SAN JOSE NEAR GRANTS, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	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)	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 09...	0.30	1.4	0.410	0.300	0.280	2.2	4	4	280	<1	<1.0	4
JAN 15...	2.6	3.7	0.750	0.680	0.640	3.9	--	--	--	--	--	--
MAR 18...	0.30	1.2	1.10	1.00	1.00	3.6	--	--	410	--	--	--
MAY 21...	0.50	1.3	1.60	0.180	1.70	4.6	--	--	--	--	--	--
JUL 27...	<0.20	--	0.140	0.120	0.120	2.0	5	5	260	<1	<1.0	<1
SEP 22...	<0.20	--	0.170	0.110	0.150	2.6	--	--	--	--	--	--
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 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)
OCT 09...	<1	3	<1	15	2	<1	<0.10	<0.1	3	4	<10	10
MAR 18...	--	--	--	18	--	--	--	--	--	--	--	--
JUL 27...	<1	8	1	5	4	<1	<0.10	<0.1	4	4	340	<3
DATE	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)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB) (01052)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01053)
OCT 09...	<2.0	33	2000	690	6	1	10	<5	20	240000	20	130
DATE	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)	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 ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	ALPHA SED SUSP DRY WGH AS TH-230 (PCI/L) (04127)	ALPHA, 2 SIGMA SED SUS TOT DRY AS TH-230 (PCI/L) (76004)	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/ YT-90) (80050)
OCT 09...	0.03	40	9.3	6.4	--	6.7	1.4	--	1.1	10	2.7	7.7
JUL 27...	--	--	7.7	4.9	5.6	3.5	1.0	1.2	0.75	6.2	1.9	4.6

RIO GRANDE BASIN

08343500 RIO SAN JOSE NEAR GRANTS, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	BETA, 2 SIGMA WATER, DISS, AS SR90 (PCI/L (75988)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) (80060)	BETA, 2 SIGMA SED, SUSP, TOT DRY SR90Y90 (PCI/L) (76005)	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 (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 09...	2.0	2.5	2.3	0.80	0.06	0.010	3.4	<1.0	38	0.49	89
JAN 15...	--	--	--	--	--	--	--	--	65	0.94	96
MAR 18...	--	--	--	--	--	--	--	--	27	0.37	87
MAY 21...	--	--	--	--	--	--	--	--	32	0.44	80
JUL 27...	1.4	1.6	1.5	0.67	0.07	0.020	3.1	<1.0	27	0.22	98
SEP 22...	--	--	--	--	--	--	--	--	61	0.56	69

DATE	TIME	CHLOR- DYRIFOS 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)
OCT 09...	0904	<0.01	<0.01	<0.01	<0.1	<0.01	<0.10	<0.010	<0.010	<0.1	<0.010
SEP 22...	1100	<0.01	<0.01	<0.01	<0.1	<0.01	<0.10	<0.010	<0.010	<0.1	<0.010

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)
OCT 09...	<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<1	<0.010	<0.010	<0.01	<0.1
SEP 22...	<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 TOTAL (UG/L) (39786)	2, 4-DP TOTAL (UG/L) (82183)	FONOFOS (DY- FONATE) WATER WHOLE TOT.REC (UG/L) (82614)
OCT 09...	<0.01	<0.01	<0.01	<0.01	--	--	<0.01	--	<0.01	--	<0.01
MAR 18...	--	--	--	--	<0.01	<0.01	--	<0.01	--	<0.01	--
SEP 22...	<0.01	<0.01	<0.01	<0.01	--	--	<0.01	--	<0.01	--	<0.01

RIO GRANDE BASIN

08349800 RIO PAGUATE BELOW JACKPILE MINE NEAR LAGUNA, NM

LOCATION.--Lat 35°07'09", long 107°19'58", in SW¼SE¼ sec.2, T.10 N., R.5 W., Cibola County, Hydrologic Unit 13020207, in Pagate Purchase Grant, near right bank on downstream end of bridge abutment of former Atchison, Topeka and Santa Fe Railway Co. bridge, 1.4 mi downstream from Rio Moquino, 4.2 mi upstream from Pagate Reservoir, 5.0 mi southeast of Pagate, and 26 mi east of Grants.

DRAINAGE AREA.--107 mi².

PERIOD OF RECORD.--March 1976 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,820 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Water-discharge records fair except for estimated daily discharges, which are poor. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.62	.72	2.1	1.2	e2.5	1.4	.87	.42	.80	.05	.28	2.2
2	.55	.72	1.1	1.2	e2.6	1.6	.88	.42	.64	.05	.27	1.2
3	.55	.68	1.2	4.0	e2.5	1.8	.88	.81	.68	.06	.22	1.1
4	.49	.70	1.2	1.8	2.7	1.4	.87	.71	.66	.07	.15	1.1
5	.48	.70	1.1	1.8	2.3	1.3	1.1	.64	.48	.07	.15	.94
6	.53	.65	1.4	2.1	2.1	1.2	.92	.68	.50	.05	.19	.87
7	.54	.63	1.9	2.0	2.0	1.2	.93	.76	.54	.03	.35	.80
8	.48	.61	1.8	1.8	2.3	.90	.94	.73	.57	.12	.31	.73
9	.41	.61	1.7	1.5	2.1	.86	.93	.69	.58	.16	.14	.68
10	.35	.68	1.8	2.5	2.0	.83	.93	.61	.53	.23	.07	.52
11	.34	.84	6.3	2.9	2.0	.80	.93	.58	.42	.25	8.0	.69
12	.34	.72	2.6	2.2	1.8	.78	.95	.51	.37	.33	1.8	.71
13	.33	.71	1.5	1.8	2.1	.76	1.0	.46	.34	.28	1.2	.67
14	.32	.91	1.4	e1.5	2.1	.75	1.1	.46	.27	.22	1.1	.65
15	.32	2.2	1.5	e1.4	1.8	.91	1.0	.45	.24	.23	1.1	21
16	.32	3.0	1.7	e1.3	1.9	.77	1.0	.40	.24	.21	17	3.3
17	.29	.84	1.7	e1.3	1.6	.77	.97	.34	e.23	.22	2.9	2.2
18	.28	.72	1.8	e1.2	1.9	.78	.88	.41	e.23	.25	1.3	1.8
19	.30	.62	1.9	e1.3	1.9	.77	.92	.45	e.24	.24	1.2	6.6
20	.35	.61	2.3	e1.4	1.8	.80	.94	.53	e.24	.19	1.0	2.4
21	.35	.69	1.9	e1.4	1.9	.81	.91	17	e.24	.24	1.7	1.7
22	.33	.72	1.5	e1.5	1.8	.83	.77	1.7	e.22	.28	1.2	1.3
23	.34	.87	1.2	e1.6	2.0	.80	.72	1.3	e.22	3.8	2.6	1.1
24	.34	.73	1.2	e2.0	2.1	.79	.66	2.1	.20	20	21	1.1
25	.35	.60	.99	e2.1	1.8	.78	.57	2.0	.25	3.3	4.7	.95
26	.35	.61	1.2	e2.3	1.8	.85	.55	1.2	.28	2.1	3.4	.89
27	.38	.67	.95	e2.4	1.6	.96	.55	.98	.19	.76	2.6	.87
28	.39	.96	1.1	e2.7	1.6	.89	.55	.95	.15	.60	2.2	.85
29	.41	1.4	1.3	e2.4	1.5	.80	.50	.92	.11	.49	2.0	.76
30	.60	1.2	1.4	e2.3	---	.82	.47	.98	.07	.36	1.7	.78
31	.82	---	1.4	e2.3	---	.87	---	.85	---	.32	2.2	---
TOTAL	12.85	26.32	52.14	59.2	58.1	29.58	25.19	41.04	10.73	35.56	84.03	60.46
MEAN	.41	.88	1.68	1.91	2.00	.95	.84	1.32	.36	1.15	2.71	2.02
MAX	.82	3.0	6.3	4.0	2.7	1.8	1.1	.17	.80	.20	.21	.21
MIN	.28	.60	.95	1.2	1.5	.75	.47	.34	.07	.03	.07	.52
AC-FT	25	52	103	117	115	59	50	81	21	71	167	120
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1992, BY WATER YEAR (WY)

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	1.02	1.12	1.62	2.07	1.99	2.65	2.28	1.41	.63	2.31	10.9	2.91					
MAX	5.29	3.49	4.01	4.35	5.49	12.2	10.3	3.64	3.39	13.5	142	18.2					
(WY)	1987	1987	1987	1987	1987	1987	1983	1991	1991	1990	1988	1988					
MIN	.073	.26	.33	.28	.27	.82	.80	.29	.11	.003	.095	.068					
(WY)	1990	1990	1981	1986	1986	1981	1978	1980	1980	1987	1980	1989					

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1976 - 1992

	1991 CALENDAR YEAR	1992 WATER YEAR	WATER YEARS 1976 - 1992
ANNUAL TOTAL	764.29	495.20	
ANNUAL MEAN	2.09	1.35	2.65
HIGHEST ANNUAL MEAN			15.5
LOWEST ANNUAL MEAN			.68
HIGHEST DAILY MEAN	56	c21	3000
LOWEST DAILY MEAN	.14	.03	.00
ANNUAL SEVEN-DAY MINIMUM	.19	.05	.00
INSTANTANEOUS PEAK FLOW		3.39	b14200
INSTANTANEOUS PEAK STAGE			a23.00
ANNUAL RUNOFF (AC-FT)	1520	982	1920
10 PERCENT EXCEEDS	5.3	2.2	3.1
50 PERCENT EXCEEDS	1.2	.87	.93
90 PERCENT EXCEEDS	.36	.24	.10

a-From floodmarks.

b-From rating curve extended above 20 ft³/s, on basis of slope-area measurement at gage height 8.60 ft, and 23.0 ft.

c-Also occurred Sept. 15.

RIO GRANDE BASIN

08349800 RIO PAQUATE BELOW JACKPILE MINE NEAR LAGUNA, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977, 1987 to January 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	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)
OCT 09...	1305	0.44	2850	8.3	24.5	21.0	624	7.7	1300	1000	210	180
JAN 16...	1000	1.2	--	8.0	-5.0	0.0	620	11.4	1100	780	200	150

DATE	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)	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)
OCT 09...	260	3	10	297	14	267	1500	49	0.40	17	2390
JAN 16...	220	3	9.0	415	0	340	1300	31	0.50	21	2140

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)
OCT 09...	<1	<1	170	<1	<1.0	1	<1	4	<1	<10	<1	<1
JAN 16...	1	<1	150	<1	<1.0	2	<1	1	<1	<10	<1	<1

DATE	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)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS AS NAT U (UG/L) (75986)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)
OCT 09...	<0.10	<0.1	4	3	<10	<10	290	73	1.1
JAN 16...	<0.10	<0.1	5	<1	20	<10	150	40	12

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/ YT-90) (80050)	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L (75988)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) (80060)	BETA, 2 SIGMA SED, SUSP, TOT DRY SR90Y90 (PCI/L) (76005)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM 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 09...	86	14	64	10	23	22	3.0	0.83	0.130	190	29
JAN 16...	58	9.6	43	7.1	36	34	4.4	0.69	0.120	130	20

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, on bridge on former U.S. Highway 85, 0.2 mi upstream from Interstate Highway 25, 1.2 mi southwest of Bernardo, 3 mi upstream from mouth, and 18 mi south of Belen.

DRAINAGE AREA.--7,350 mi², approximately, of which at least 1,130 mi² does not contribute directly to surface 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 good 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	14	9.0	14	19	6.4	42	32	.00	49	43
2	.00	.00	12	10	26	23	11	49	30	.00	23	34
3	.00	.00	12	7.5	105	34	9.8	55	24	.00	11	85
4	.00	.00	12	6.3	120	29	15	61	20	.00	7.9	68
5	.00	.00	10	4.5	213	30	12	73	19	.00	11	51
6	.00	.00	7.2	5.3	167	29	9.0	69	12	.00	11	43
7	.00	.00	5.7	8.5	90	27	8.5	63	7.3	.00	11	39
8	.00	.00	7.7	7.7	93	22	7.7	56	3.7	.00	192	37
9	.00	.00	13	6.6	81	26	7.3	47	1.8	.00	224	34
10	.00	.00	14	4.1	64	19	8.3	60	e1.5	.00	63	30
11	.00	.00	41	3.9	79	19	8.5	94	e1.3	.00	45	30
12	.00	.00	44	5.4	84	19	15	137	e1.0	.00	500	29
13	.00	.00	37	5.2	80	15	22	80	e.70	.00	310	27
14	.00	.00	66	e3.5	69	14	33	56	e.60	.00	191	27
15	.00	.00	48	e3.6	65	12	46	48	e.50	.00	82	25
16	.00	2.2	36	e3.4	118	10	58	44	e.40	.00	49	21
17	.00	27	27	e3.0	75	9.1	66	44	e.30	.00	38	16
18	.00	137	17	e2.0	46	8.0	61	42	e.20	.00	32	13
19	.00	73	18	e1.0	34	6.6	55	37	e.10	.00	25	23
20	.00	102	22	e.80	28	5.6	48	34	e.00	.00	29	42
21	.00	65	25	e.60	24	7.5	47	33	e.00	e.01	28	21
22	.00	50	29	e.40	21	8.0	40	80	e.00	e.05	23	93
23	.00	41	26	e.40	17	8.1	34	95	e.00	e.03	20	48
24	.00	36	21	e.30	21	7.5	29	102	e.00	e.04	26	36
25	.00	26	20	e.30	67	6.3	27	89	e.00	2.2	31	29
26	.00	25	18	e3.6	64	5.4	24	78	e.00	109	636	24
27	.00	22	17	8.2	40	5.5	23	79	e.00	209	743	21
28	.00	21	15	10	31	5.9	26	70	e.00	70	137	18
29	.00	19	15	13	23	6.2	33	48	e.00	13	67	16
30	.00	18	13	15	---	5.4	36	46	e.00	6.7	47	15
31	.00	---	11	15	---	5.8	---	46	---	5.5	40	---
TOTAL	0.00	664.20	673.6	168.10	1959	447.9	826.5	1957	156.40	415.53	3701.9	1038
MEAN	.000	22.1	21.7	5.42	67.6	14.4	27.5	63.1	5.21	13.4	119	34.6
MAX	.00	137	66	15	213	34	66	137	32	209	743	93
MIN	.00	.00	5.7	.30	14	5.4	6.4	33	.00	.00	7.9	13
AC-FT	.00	1320	1340	333	3890	888	1640	3880	310	824	7340	2060

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1992, BY WATER YEAR (WY)

	MEAN	54.5	7.67	1.31	1.35	16.4	19.2	15.9	44.1	18.5	67.1	194	90.3
MAX	586	100	26.6	18.5	142	208	179	885	203	362	922	584	
(WY)	1942	1987	1985	1979	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1940 - 1992
ANNUAL TOTAL	22890.30	12008.13	
ANNUAL MEAN	62.7	32.8	44.3
HIGHEST ANNUAL MEAN			171
LOWEST ANNUAL MEAN			5.47
HIGHEST DAILY MEAN	1600	743	5980
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		997	a18800
INSTANTANEOUS PEAK STAGE		6.00	b16.90
ANNUAL RUNOFF (AC-FT)	45400	23820	32090
10 PERCENT EXCEEDS	204	74	68
50 PERCENT EXCEEDS	2.5	15	.00
90 PERCENT EXCEEDS	.00	.00	.00

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.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: October 1947 to current year.

REMARKS.--Samples are collected when flow is observed in this ephemeral flow channel.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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.--

SEDIMENT CONCENTRATION: Maximum daily mean, 190,000 mg/L, Aug. 9; minimum daily mean, no flow on many days.

SEDIMENT LOAD: Maximum daily, 251,000 tons, Aug. 26; minimum daily, 0 ton on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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 OF (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)
MAR 04...	1415	24	2200	7.3	17.0	8.5	632	9.6	610	170	44
JUN 05...	1230	18	1650	7.1	28.0	23.0	636	7.2	420	120	28
AUG 03...	1230	8.2	685	8.0	32.0	25.0	643	6.7	130	39	8.3
12...	1115	345	1010	8.1	23.5	19.5	647	5.8	220	69	12
26...	1515	812	1580	7.6	26.5	21.0	644	6.8	--	--	--

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)	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)
MAR 04...	300	5	6.1	177	830	110	0.80	6.8	1580	200	3300	
JUN 05...	200	4	5.6	121	620	50	0.90	9.0	1110	20	13	
AUG 03...	88	3	5.1	147	170	31	1.1	14	445	150	7	
12...	110	3	6.4	137	330	42	0.70	11	663	140	80	

DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS AS NAT U (UG/L) (75986)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	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/ YT-90) (80050)
MAR 04...	1415	13	9.1	2000	11	3.3	9.1

RIO GRANDE BASIN

08353000 RIO PUERCO NEAR BERNARDO, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	BETA, 2 SIGMA WATER, DISS, AS SR90 (PCI/L (75988)	GROSS BETA, SUSP. TOTAL (PCI/L CS-137) (03516)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) (80060)	BETA, 2 SIGMA SED, SUSP. TOT DRY SR90Y90 (PCI/L) (76005)	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)
MAR 04...	2.7	1400	1200	330	0.32	0.060	14	2.1
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- SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	
JUL 26...	1800	296	2790	27.0	41500	33200	94	

RIO GRANDE BASIN

08353000 RIO PUERCO NEAR BERNARDO, NM -- Continued

WATER-QUALITY RECORDS

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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	0	.00	0	.00	24000	907	867	21	1060	40	26700	1370
2	0	.00	0	.00	22700	737	692	19	17200	1200	26300	1630
3	0	.00	0	.00	10900	352	637	13	80600	22800	36100	3310
4	0	.00	0	.00	793	26	570	9.7	73800	23900	36600	2860
5	0	.00	0	.00	620	17	507	6.2	87400	50200	41700	3380
6	0	.00	0	.00	362	7.0	568	8.1	78600	35400	39000	3050
7	0	.00	0	.00	234	3.6	877	20	55400	13500	41000	2990
8	0	.00	0	.00	254	5.3	913	19	59700	15000	36000	2140
9	0	.00	0	.00	325	11	920	16	54600	11900	42800	3010
10	0	.00	0	.00	328	12	680	7.5	50900	8790	36600	1880
11	0	.00	0	.00	12900	1430	770	8.1	60000	12800	38000	1950
12	0	.00	0	.00	18900	2250	789	12	69100	15700	35800	1840
13	0	.00	0	.00	24100	2410	744	10	69300	15000	29500	1190
14	0	.00	0	.00	38400	6850	721	6.8	63200	11800	15000	566
15	0	.00	0	.00	38700	5010	700	6.8	62900	11000	5320	172
16	0	.00	42700	254	25700	2500	691	6.3	74700	23800	1760	48
17	0	.00	39200	2860	15300	1110	681	5.5	65200	13200	1370	34
18	0	.00	112000	41500	7560	347	577	3.1	39400	4900	1080	23
19	0	.00	59100	11600	1660	81	496	1.3	23200	2130	805	14
20	0	.00	60600	16700	1390	82	433	.94	13400	1010	644	9.7
21	0	.00	39900	7010	1480	100	429	.69	9770	633	869	18
22	0	.00	33500	4520	1410	110	456	.49	7880	447	855	18
23	0	.00	28300	3130	1490	105	476	.51	6800	312	793	17
24	0	.00	24800	2410	1310	74	465	.38	14800	840	697	14
25	0	.00	22600	1580	1190	64	526	.43	64800	11700	598	10
26	0	.00	37200	2510	1100	54	790	7.7	66300	11500	561	8.2
27	0	.00	26000	1540	1050	48	1110	25	52600	5680	495	7.4
28	0	.00	23800	1350	914	37	1170	31	45800	3840	527	8.4
29	0	.00	23600	1210	1010	41	1170	41	34400	2140	592	9.9
30	0	.00	24800	1210	946	33	1110	45	---	---	579	8.4
31	0	.00	---	---	962	29	1080	44	---	---	615	9.6
TOTAL	---	0.00	---	99384.00	---	24842.9	---	396.54	---	331162	---	31595.6

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	603	10	49700	5640	57300	4950	0	.0	67700	8950	42100	4880
2	827	25	55300	7310	56000	4540	0	.0	51500	3200	34200	3140
3	843	22	61200	9090	55200	3580	0	.0	30600	910	58100	13300
4	902	37	61400	10100	55300	2990	0	.0	18300	391	52200	9590
5	812	26	65800	13000	60200	3090	0	.0	27200	808	41100	5660
6	700	17	66300	12400	58000	1880	0	.0	19900	591	35400	4110
7	596	14	65200	11100	42900	846	0	.0	15500	461	32700	3440
8	559	12	65000	9820	31000	309	0	.0	92800	48100	32100	3200
9	614	12	57200	7260	23600	115	0	.0	190000	115000	31200	2860
10	684	15	57100	9250	18700	76	0	.0	108000	18400	28500	2310
11	645	15	81400	20700	13800	49	0	.0	91200	11100	28400	2300
12	12100	490	137000	50800	8990	24	0	.0	113000	152000	26000	2030
13	32400	1920	101000	21800	4560	8.6	0	.0	60100	50300	23100	1680
14	41200	3670	76700	11600	2870	4.6	0	.0	44400	22900	20600	1500
15	48200	5990	69700	9040	2140	2.9	0	.0	43500	9640	18600	1260
16	50100	7850	65100	7730	1570	1.7	0	.0	40000	5300	27600	1560
17	48700	8670	64400	7650	1280	1.0	0	.0	36300	3730	22000	948
18	46400	7650	64300	7290	1240	.67	0	.0	33200	2870	19100	672
19	40700	6050	62900	6290	1110	.30	0	.0	30000	2030	44300	2750
20	38400	4980	61300	5630	0	.00	0	.0	26800	2100	55600	6300
21	41200	5230	60600	5400	0	.00	13800	.4	23100	1740	40900	2320
22	39000	4210	68100	14700	0	.00	40700	5.5	21200	1310	69500	17400
23	36700	3370	65200	16700	0	.00	24000	1.9	19700	1070	47400	6140
24	35100	2750	85800	23600	0	.00	20300	2.2	18900	1320	40100	3900
25	33300	2430	71100	17100	0	.00	47500	282	16900	1420	35900	2810
26	31800	2060	68600	14400	0	.00	68600	20200	146000	251000	32000	2070
27	31100	1930	70600	15100	0	.00	134000	75400	118000	236000	27800	1580
28	34600	2430	73400	13900	0	.00	123000	23300	73900	27400	23200	1130
29	39500	3520	68000	8810	0	.00	82000	2880	54700	9890	17900	774
30	43300	4210	62100	7720	0	.00	73500	1330	43600	5540	15100	610
31	---	---	63600	7900	---	---	68500	1020	39000	4210	---	---
TOTAL	---	79615	---	388830	---	22468.77	---	124422.0	---	999681	---	112224

TOTAL LOAD FOR YEAR: 2214621.81 TONS.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	222	.00	.00	.00	.00	.00	250	251	168	291	209	204
2	214	.00	.00	.00	.00	47	194	250	186	289	221	215
3	203	.00	.00	.00	.00	73	205	252	217	264	202	201
4	230	.00	.00	.00	.00	65	164	251	229	246	196	198
5	227	.00	.00	.00	.00	88	203	240	240	254	211	199
6	244	.00	.00	.00	.00	80	203	237	241	303	225	204
7	243	.00	.00	.00	.00	90	183	237	249	300	217	214
8	228	.00	.00	.00	.00	99	199	231	271	243	208	229
9	247	.00	.00	.00	.00	119	198	228	283	248	208	255
10	254	.00	.00	.00	.00	160	199	232	296	293	192	260
11	253	.00	.00	.00	.00	142	215	227	275	303	191	240
12	254	.00	.00	.00	.00	166	218	212	253	302	190	247
13	238	.00	.00	.00	.00	160	234	224	257	292	189	248
14	258	.00	.00	.00	.00	172	249	222	269	286	189	261
15	235	.00	.00	.00	.00	151	250	217	265	273	189	272
16	242	.00	.00	.00	.00	168	245	231	259	282	190	260
17	254	.00	.00	.00	.00	185	254	231	268	290	196	261
18	253	.00	.00	.00	.00	187	252	238	268	276	205	261
19	261	.00	.00	.00	.00	183	257	231	269	284	230	240
20	229	.00	.00	.00	.00	177	245	252	275	284	260	218
21	243	.00	.00	.00	.00	194	249	238	266	280	255	215
22	233	.00	.00	.00	.00	189	257	211	275	249	249	214
23	233	.00	.00	.00	.00	200	256	168	285	248	249	176
24	255	.00	.00	.00	.00	222	261	147	272	249	220	189
25	242	.00	.00	.00	.00	231	281	133	281	212	205	196
26	239	.00	.00	.00	.00	248	269	135	296	249	201	203
27	235	.00	.00	.00	.00	257	252	146	278	220	199	196
28	257	.00	.00	.00	.00	259	258	144	285	227	198	201
29	212	.00	.00	.00	.00	260	262	154	281	207	198	199
30	139	.00	.00	.00	.00	241	262	148	293	199	200	214
31	31	---	.00	.00	---	245	---	148	---	211	201	---
TOTAL	7108	0.00	0.00	0.00	0.00	5058.00	7024	6466	7850	8154	6493	6690
MEAN	229	.000	.000	.000	.000	163	234	209	262	263	209	223
MAX	261	.00	.00	.00	.00	260	281	252	296	303	260	272
MIN	31	.00	.00	.00	.00	.00	164	133	168	199	189	176
AC-FT	14100	.00	.00	.00	.00	10030	13930	12830	15570	16170	12880	13270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1992, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
MEAN	112	10.3	8.86	8.11	5.98	142	192	189	181	161	139	118
MAX	229	86.0	79.0	56.7	52.4	191	246	262	264	263	209	223
(WY)	1992	1989	1976	1976	1979	1977	1989	1991	1991	1992	1992	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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1964 - 1992

ANNUAL TOTAL	52242.00	54843.00	
ANNUAL MEAN	143	150	106
HIGHEST ANNUAL MEAN			150
LOWEST ANNUAL MEAN			63.7
HIGHEST DAILY MEAN	306	303	306
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
ANNUAL RUNOFF (AC-FT)	103600	108800	76890
10 PERCENT EXCEEDS	271	268	224
50 PERCENT EXCEEDS	188	200	113
90 PERCENT EXCEEDS	.00	.00	.00

RIO GRANDE BASIN

08354800 RIO GRANDE CONVEYANCE CHANNEL AT SAN ACACIA, NM

(Surveillance network station)

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.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1958 to September 1964 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 current year. 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.--Water-discharge records good except for estimated daily discharges, which are poor. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	4.1	.69	.57	e.72	.95	2.4
2	.00	.00	.00	.00	.00	.32	4.1	.61	.57	e.70	.92	2.7
3	.00	.00	.00	.00	.00	1.6	3.9	.57	.57	e.65	.95	3.2
4	.00	.00	.00	.00	.00	2.1	3.9	.54	.59	e.70	.92	3.4
5	.00	.00	.00	.00	.00	3.0	4.2	.51	e.53	e.60	.98	3.5
6	.00	.00	.00	.00	.00	3.1	4.7	.48	e.48	e.72	1.1	3.6
7	.00	.00	.00	.00	.00	3.1	4.9	.48	e.55	e.70	1.2	3.6
8	.00	.00	.00	.00	.00	3.0	4.9	.47	e.63	e.72	1.2	3.4
9	.00	.00	.00	.00	.00	2.8	4.4	.46	e.58	e.76	1.0	3.4
10	.00	.00	.00	.00	.00	3.1	4.3	.45	e.50	e2.4	.88	4.1
11	.00	.00	.00	.00	.00	3.1	4.1	.45	e.48	e2.6	e.80	4.3
12	.00	.00	.00	.00	.00	3.4	3.8	.45	e.55	e2.8	e.66	4.6
13	.00	.00	.00	.00	.00	4.3	3.8	.45	e.50	e3.0	e.00	4.7
14	.00	.00	.00	.00	.00	4.1	3.7	.48	e.55	e3.2	e.00	4.6
15	.00	.00	.00	.00	.00	3.9	3.6	.48	e.60	e3.4	e.00	4.5
16	.00	.00	.00	.00	.00	3.6	3.4	.48	e.62	3.3	e.00	4.2
17	.00	.00	.00	.00	.00	4.0	3.3	.48	e.63	3.5	e.00	4.1
18	.00	.00	.00	.00	.00	4.4	2.8	.48	e.65	1.6	e.00	3.9
19	.00	.00	.00	.00	.00	4.2	2.5	.48	e.70	1.2	e.00	3.6
20	.00	.00	.00	.00	.00	4.1	2.4	.48	e.73	1.4	e.00	3.3
21	.00	.00	.00	.00	.00	4.2	2.1	.48	e.71	1.7	1.7	3.1
22	.00	.00	.00	.00	.00	4.1	1.6	.48	e.70	1.6	1.9	3.1
23	.00	.00	.00	.00	.00	3.9	1.1	.51	e.65	.98	1.9	3.0
24	.00	.00	.00	.00	.00	3.8	.99	.54	e.71	1.2	2.2	3.3
25	.00	.00	.00	.00	.00	4.1	.95	.51	e.70	.95	2.1	3.7
26	.00	.00	.00	.00	.00	4.0	.90	.51	e.65	.76	2.1	3.6
27	.00	.00	.00	.00	.00	4.1	.90	.53	e.65	.78	2.0	3.8
28	.00	.00	.00	.00	.00	4.1	.86	.54	e.60	.75	2.0	3.7
29	.00	.00	.00	.00	.00	4.1	.79	.54	e.65	.84	2.2	3.6
30	.00	.00	.00	.00	---	4.0	.72	.54	e.70	.91	2.3	3.5
31	.00	---	.00	.00	---	4.2	---	.56	---	.92	2.4	---
TOTAL	0.00	0.00	0.00	0.00	0.00	105.82	87.71	15.71	18.30	46.06	34.36	109.5
MEAN	.000	.000	.000	.000	.000	3.41	2.92	.51	.61	1.49	1.11	3.65
MAX	.00	.00	.00	.00	.00	4.4	4.9	.69	.73	3.5	2.4	4.7
MIN	.00	.00	.00	.00	.00	.00	.72	.45	.48	.60	.00	2.4
AC-FT	.00	.00	.00	.00	.00	210	174	31	36	91	68	217

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1992, BY WATER YEAR (WY)

MEAN	143	679	692	562	569	451	418	539	409	220	197	142
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	.076	.000	.000	.000	.000
(WY)	1988	1988	1986	1988	1987	1991	1991	1988	1986	1987	1987	1987

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR				FOR 1992 WATER YEAR				WATER YEARS 1959 - 1992			
ANNUAL TOTAL	786.51				417.46				417			
ANNUAL MEAN	2.15				1.14				1033			
HIGHEST ANNUAL MEAN									.049			
LOWEST ANNUAL MEAN									1973			
HIGHEST DAILY MEAN	240				4.9				1950			
LOWEST DAILY MEAN	.00				.00				.00			
ANNUAL SEVEN-DAY MINIMUM	.00				.00				.00			
ANNUAL RUNOFF (AC-FT)	1560				828				302300			
10 PERCENT EXCEEDS	.01				3.9				1380			
50 PERCENT EXCEEDS	.00				.50				66			
90 PERCENT EXCEEDS	.00				.00				.00			

RIO GRANDE BASIN

08354800 RIO GRANDE CONVEYANCE CHANNEL AT SAN ACACIA, NM -- Continued

WATER-QUALITY RECORDS

LOCATION.--Samples collected 100 ft downstream from streamflow gaging station.

PERIOD OF RECORD.--Water years 1959 to 1985, 1989 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JUL 15...	1030	3.6	535	23.5	157	1.5	43

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, 1987, 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. 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 1974-92), 1,450 ft³/s, 1,051,000 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, 5,720 ft³/s, May 12; minimum daily, 32 ft³/s, Sept. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	424	702	1910	937	1190	1300	1370	4570	3410	316	578	467
2	430	819	1850	1060	1350	1190	1680	4550	3480	180	840	499
3	413	1060	1840	997	1520	1650	1570	4950	3900	60	864	330
4	266	1090	1870	960	1310	1360	1910	5160	3940	37	639	187
5	220	1260	1800	1010	1330	1630	1900	5320	3740	36	438	132
6	245	1550	1750	953	1360	1590	2420	5320	3090	92	330	76
7	211	1860	1790	1040	1150	1610	2450	5560	2740	111	278	116
8	243	2030	1810	1070	1140	1580	2690	5460	2940	41	289	128
9	176	2130	1810	974	1160	1550	2730	5400	3110	43	606	90
10	156	2090	1870	871	1140	1490	3120	5380	3190	57	288	78
11	145	2120	2080	889	1110	1390	3450	5500	3040	92	454	34
12	188	2360	2210	882	1120	1200	3400	5720	2980	210	805	41
13	189	2440	2320	872	1220	1370	3390	5660	2810	367	955	32
14	211	2520	2170	827	1130	1490	3520	4870	2690	456	1010	44
15	214	2440	1950	804	1080	1710	3760	3780	2650	432	666	144
16	185	2420	1720	810	1080	1470	3830	3450	2450	300	711	290
17	212	2670	1540	820	749	1410	3830	3210	2220	270	573	356
18	254	2130	1370	786	672	1320	3860	3290	2030	238	408	461
19	186	2210	1310	785	632	1370	4460	3040	1880	140	419	649
20	161	2340	1520	825	615	1310	4460	2980	1790	109	262	819
21	165	2180	1750	974	609	1210	4070	3230	1670	91	265	802
22	172	2110	1730	922	668	1270	4070	3510	1630	274	280	830
23	168	2380	1570	968	699	1290	4000	3790	1730	99	258	662
24	215	2120	1510	945	753	1240	4050	4190	1450	303	280	494
25	234	1900	1530	1100	721	1130	4010	3690	1400	1270	315	481
26	209	1850	1550	1100	708	1200	4330	3740	1240	1040	446	381
27	286	1900	1440	1000	688	1150	4340	3790	961	1210	512	323
28	201	1850	1300	1080	1200	1130	4270	3760	546	1120	308	364
29	210	1780	981	1130	1450	1300	4390	3570	343	738	257	385
30	258	2070	1010	1090	---	1300	4540	4020	338	644	326	355
31	409	---	1010	1150	---	1360	---	3810	---	614	412	---
TOTAL	7256	58381	51871	29631	29554	42570	101870	134270	69388	10990	15072	10050
MEAN	234	1946	1673	956	1019	1373	3396	4331	2313	355	486	335
MAX	430	2670	2320	1150	1520	1710	4540	5720	3940	1270	1010	830
MIN	145	702	981	785	609	1130	1370	2980	338	36	257	32
AC-FT	14390	115800	102900	58770	58620	84440	202100	266300	137600	21800	29900	19930
(†)	28490	115800	102900	58770	58620	94680	216200	279200	153200	38060	42850	33420

CAL YR 1991 TOTAL 590100 MEAN 1617 MAX 4820 MIN 20 AC-FT 1170000 (†) MEAN 1762 AC-FT 1275000
WTR YR 1992 TOTAL 560903 MEAN 1533 MAX 5720 MIN 32 AC-FT 1113000 (†) MEAN 1680 AC-FT 1223000

(†) COMBINED FLOW, IN ACRE-FEET, AND MEAN, IN CUBIC FEET PER SECOND, OF FLOODWAY, CONVEYANCE CHANNEL, AND SOCORRO MAIN CANAL NORTH.

RIO GRANDE BASIN

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1937-56, 1959 to current year.

PERIOD OF DAILY RECORD.--

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-load measurements were calculated for one day of nearly every month. Total-load values were determined using equation from double-mass relationship plot for 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, 3,700 microsiemens, July 14, 1940; minimum daily, 236 microsiemens, May 17, 1942.

WATER TEMPERATURE: (1947-56, 1959-62, 1964-92): 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, 1,060 microsiemens, July 27; minimum daily, 402 microsiemens, Apr. 24, May 31.

WATER TEMPERATURE: Maximum daily, 30.5°C, Aug. 3; minimum daily, 2.0°C, Jan. 18.

SEDIMENT CONCENTRATION: Maximum daily mean, 53,700 mg/L, Aug. 12; minimum daily mean, 31 mg/L, July 5.

SEDIMENT LOAD: Maximum daily, 140,000 tons, July 25; minimum daily, 3.0 ton on July 5.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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 DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREP-TOCOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR 22...	1245	4130	442	7.2	23.0	16.0	--	10.0	26	K39	280
MAY 28...	1115	2710	410	8.0	23.0	18.5	640	7.8	28	--	--
JUN 25...	1200	1340	464	7.8	33.5	25.0	643	7.0	13	290	420
JUL 15...	1030	427	505	7.4	31.5	23.5	645	7.7	20	2500	K150
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-LINITY WAT DIS TOT IT (MG/L AS CaCO3) (39086)	ALKA-LINITY LAB (MG/L AS CaCO3) (90410)
APR 22...	130	21	40	7.4	34	1	3.9	133	0	109	--
MAY 28...	130	--	41	7.6	30	1	2.7	--	--	--	106
JUN 25...	160	37	51	8.8	35	1	3.7	134	10	126	--
JUL 15...	180	29	55	9.4	44	1	4.5	165	7	147	--
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) (00620)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (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)
APR 22...	82	19	0.40	19	274	--	0.430	<0.010	0.010	0.420	0.440
MAY 28...	73	15	0.40	16	252	--	0.500	<0.010	0.010	0.490	0.510
JUN 25...	89	21	0.40	20	309	0.790	0.820	0.020	0.020	0.810	0.840
JUL 15...	95	26	0.50	19	345	0.490	0.520	0.050	0.030	0.540	0.550

RIO GRANDE BASIN

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	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)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
APR 22...	0.020	0.060	0.98	1.0	1.4	0.550	0.110	0.120	18	80	170
MAY 28...	0.010	0.020	--	<0.20	--	0.120	0.140	0.120	14	50	16
JUN 25...	0.020	0.030	0.28	0.30	1.1	0.230	0.190	0.190	7.0	70	<3
JUL 15...	0.050	0.040	0.15	0.20	0.74	0.290	0.300	0.250	4.9	100	8
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)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 19...	1330	2190	154	2.3	6.12	--	8.0	7370	43600	54800	--
DEC 02...	1400	1730	161	2.1	5.02	--	3.5	12200	57000	70900	--
DEC 16...	1140	1670	152	3.4	3.23	--	4.5	2030	9150	12300	--
JAN 06...	1445	946	105	2.9	3.16	--	6.5	577	1470	2130	--
FEB 21...	1150	575	178	1.4	2.34	--	10.0	3070	4770	6580	--
APR 22...	1245	4130	--	--	--	442	16.0	1830	20400	--	78
MAY 07...	1245	5570	203	6.3	4.39	--	18.0	2490	37400	47300	--
MAY 21...	1430	3220	155	5.1	4.07	--	20.0	1210	10500	14000	--
MAY 28...	1115	2710	--	--	--	410	18.5	568	4160	--	22
JUN 04...	1445	3990	161	5.2	4.78	--	18.0	603	6500	8860	--
JUN 18...	1130	2050	155	4.9	2.69	--	22.0	219	1210	1770	--
JUN 25...	1200	1340	--	--	--	464	25.0	461	1670	--	95
JUL 02...	1130	36	42.0	0.89	0.96	--	20.0	35	3.4	6.4	96
AUG 05...	1510	434	110	1.6	2.54	--	22.0	492	577	870	--
SEP 17...	0930	327	74.0	2.1	2.15	--	21.0	470	415	635	--

RIO GRANDE BASIN

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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 .031 MM (70341)	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										
19...	28	31	36	41	--	50	62	93	100	--
DEC										
02...	--	--	--	--	0	4	5	34	95	100
16...	24	28	32	37	0	47	62	89	99	100
JAN										
06...	--	--	--	--	--	54	77	99	100	--
FEB										
21...	64	75	77	85	--	89	94	100	--	--
APR										
22...	--	--	--	--	--	--	--	--	--	--
MAY										
07...	26	28	32	35	0	62	87	100	--	--
21...	40	46	54	64	0	82	93	100	--	--
28...	--	--	--	--	--	--	--	--	--	--
JUN										
04...	47	54	62	69	0	96	98	100	--	--
18...	--	--	--	--	--	66	83	99	100	--
25...	--	--	--	--	--	--	--	--	--	--
JUL										
02...	--	--	--	--	0	--	--	--	--	--
AUG										
05...	45	62	--	83	--	96	97	99	100	--
SEP										
17...	--	--	--	--	0	69	73	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)
NOV										
19...	--	--	--	--	97	99	100	--	--	--
DEC										
02...	18	44	84	99	100	--	--	--	--	--
16...	25	66	98	99	99	100	--	--	--	--
JAN										
06...	0	1	17	68	87	93	96	98	100	--
FEB										
21...	0	7	89	100	--	--	--	--	--	--
APR										
22...	--	--	--	--	--	--	--	--	--	--
MAY										
07...	35	35	42	52	61	64	66	68	72	73
21...	64	83	99	100	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
JUN										
04...	40	80	99	100	--	--	--	--	--	--
18...	0	6	46	88	97	98	98	98	100	--
25...	--	--	--	--	--	--	--	--	--	--
JUL										
02...	1	6	52	92	99	100	--	--	--	--
AUG										
05...	0	2	37	92	99	100	--	--	--	--
SEP										
17...	2	19	78	98	99	99	99	99	100	--

RIO GRANDE BASIN

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM -- Continued

WATER-QUALITY RECORDS

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
ONCE-DAILY

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
556	716	601	667	724	577	---	435	401	---	538	649
531	714	596	669	853	541	---	423	391	576	492	612
609	671	---	657	884	603	---	424	388	606	490	---
611	665	---	654	824	565	---	411	400	640	---	703
610	666	621	653	851	573	---	412	406	721	562	660
613	690	601	678	754	574	---	421	402	---	550	629
608	724	598	650	742	560	---	406	402	574	---	595
592	730	595	646	740	564	---	409	402	659	---	---
603	751	---	644	736	579	845	403	395	702	937	692
612	755	---	640	738	554	467	404	406	597	690	691
624	759	608	612	753	539	472	404	409	578	---	730
624	753	611	640	753	543	471	448	408	569	671	725
624	677	613	639	822	543	464	426	420	541	607	728
618	663	612	607	832	506	475	412	418	521	924	589
616	631	612	615	833	524	473	404	418	521	625	589
616	624	613	630	831	521	466	406	440	534	564	598
664	689	609	630	833	509	463	405	444	546	547	600
666	691	612	652	906	509	463	410	443	605	568	529
669	696	597	657	914	513	468	412	441	564	568	526
666	698	598	681	944	508	464	419	451	573	574	526
663	609	584	650	951	517	415	422	453	582	659	502
665	589	610	633	951	503	414	422	452	911	624	718
666	591	631	655	950	532	413	424	456	642	584	556
630	595	636	654	952	511	402	480	479	773	594	542
666	597	616	659	1010	492	414	465	477	694	631	544
668	600	611	657	698	496	408	428	470	528	631	559
668	600	610	656	696	486	415	418	495	1060	634	557
671	602	613	642	678	485	424	420	516	765	---	567
657	603	613	679	986	486	423	414	555	579	609	555
660	599	656	715	---	500	422	416	567	531	557	559
652	---	663	719	---	---	---	402	---	562	589	---
632	665	---	653	832	---	---	420	440	---	---	---
671	759	---	719	1010	---	---	480	567	---	---	---
531	589	---	607	678	---	---	402	388	---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
ONCE-DAILY

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
25.0	8.0	9.0	9.0	6.0	15.0	---	25.0	18.0	---	26.5	26.0
23.0	10.0	6.5	5.0	8.0	14.0	---	24.0	23.0	27.5	29.5	25.0
22.0	11.0	---	7.0	8.0	13.0	---	22.0	21.0	25.5	30.5	---
24.0	9.0	---	9.0	8.5	12.5	---	24.0	19.0	27.0	---	26.0
21.0	13.0	9.0	8.0	9.0	14.0	---	25.0	20.0	24.5	28.0	26.5
25.0	13.0	10.0	9.0	8.0	15.0	---	24.0	19.0	---	25.0	24.0
21.0	15.0	11.0	8.0	8.0	14.5	---	24.0	19.0	26.5	---	25.5
23.0	11.0	10.0	9.5	7.0	15.0	---	25.0	20.0	28.0	---	---
22.0	12.0	---	7.0	8.5	11.0	15.0	24.5	22.0	24.0	27.5	25.0
23.5	15.0	---	7.5	13.0	14.0	20.0	24.0	23.0	26.0	28.0	23.5
22.0	12.0	12.0	5.0	11.0	13.0	19.0	26.0	24.0	24.5	---	24.0
16.0	16.0	10.0	4.5	12.0	14.5	20.0	24.0	22.0	24.0	27.0	25.0
21.0	14.0	11.0	6.0	11.0	15.0	18.0	23.5	24.0	22.0	30.0	25.5
23.0	15.0	9.0	4.5	12.0	14.0	18.5	24.0	27.0	26.0	29.0	24.0
21.0	13.0	10.0	4.0	13.0	16.0	18.0	25.0	25.0	27.0	30.0	23.5
20.0	12.0	9.0	4.0	11.0	15.0	20.0	25.0	24.0	27.5	28.0	22.0
21.0	11.0	7.5	3.5	10.0	15.5	18.0	26.0	24.0	24.0	28.0	23.5
20.0	15.0	7.5	2.0	10.5	16.0	17.0	25.0	26.0	24.0	29.0	24.5
19.0	10.0	8.0	3.0	11.0	16.0	17.5	24.0	23.0	29.5	29.0	25.5
17.0	10.0	9.0	4.5	13.0	16.0	16.0	21.0	26.0	27.0	28.0	28.0
19.0	11.0	8.5	8.0	13.5	15.0	18.0	22.0	25.0	27.0	28.0	23.0
17.0	10.0	8.0	4.5	14.0	14.0	19.0	23.0	26.0	28.5	28.0	22.5
17.5	8.0	10.0	5.0	13.0	15.0	21.0	22.0	24.5	26.5	25.0	22.0
17.0	9.0	9.0	5.5	12.0	16.0	20.0	19.0	27.0	24.5	24.5	23.5
18.0	11.0	7.0	3.3	11.5	16.5	22.0	20.0	25.0	22.0	25.0	24.0
17.0	12.0	9.0	8.0	13.0	16.5	23.0	23.0	25.0	27.5	26.0	25.0
15.0	12.5	9.5	8.5	13.5	13.0	24.0	21.0	26.5	26.0	26.0	25.5
11.5	11.0	7.0	9.5	14.0	14.0	25.0	19.0	22.0	28.5	---	25.0
12.0	9.0	9.0	9.0	14.5	15.0	24.5	20.0	30.0	27.5	25.0	24.0
9.0	10.0	10.0	10.0	---	12.0	25.0	22.0	26.0	27.0	25.0	24.0
7.0	---	10.0	9.0	---	---	---	20.0	---	26.5	25.0	---
19.0	11.6	---	6.5	10.9	---	---	23.1	23.5	---	---	---
25.0	16.0	---	10.0	14.5	---	---	26.0	30.0	---	---	---
7.0	8.0	---	2.0	6.0	---	---	19.0	18.0	---	---	---

RIO GRANDE BASIN

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM -- Continued

WATER-QUALITY RECORDS

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	157	180	2730	5160	1530	7890	593	1500	614	1970	431	1510
2	160	186	749	1660	1840	9200	433	1240	4940	18000	414	1330
3	125	139	1550	4420	2240	11100	489	1320	7520	30900	920	4100
4	165	119	4350	12800	1840	9280	274	710	6350	22500	1350	4940
5	112	67	3370	11500	1480	7190	566	1540	6960	25000	1410	6220
6	194	128	1790	7480	821	3880	549	1410	2660	9760	1670	7170
7	149	85	1550	7780	1090	5270	578	1620	1960	6080	1590	6920
8	110	72	1940	10600	707	3460	857	2480	1980	6090	1300	5540
9	88	42	782	4500	829	4050	663	1740	1870	5840	1600	6710
10	72	30	1660	9340	1430	7210	372	875	1880	5790	1190	4790
11	81	32	769	4400	1860	10400	422	1010	1960	5860	745	2800
12	82	42	1530	9770	2110	12600	546	1300	2300	6950	667	2160
13	95	48	960	6320	1410	8840	486	1140	3410	11200	588	2180
14	104	59	877	5970	1280	7520	541	1210	3650	11100	355	1430
15	103	60	1880	12400	1010	5330	934	2030	3620	10600	318	1470
16	79	39	1400	9120	639	2970	1010	2210	3720	10800	334	1330
17	79	45	3740	27000	1300	5380	840	1860	3770	7630	290	1100
18	81	56	5860	33700	1100	4070	737	1560	2520	4580	267	952
19	110	55	4210	25100	673	2380	708	1500	1450	2470	269	995
20	119	52	5510	34800	921	3780	775	1730	454	754	264	934
21	85	38	2170	12800	1150	5450	763	2010	359	590	265	866
22	95	44	2800	15900	769	3590	646	1610	333	601	270	926
23	88	40	942	6050	643	2730	593	1550	382	721	264	920
24	111	64	505	2890	716	2920	471	1200	407	827	239	800
25	105	66	1370	7020	387	1600	423	1260	953	1860	179	546
26	118	67	903	4510	584	2440	359	1070	2270	4330	176	570
27	107	83	983	5040	654	2540	282	761	2580	4800	163	506
28	122	66	629	3140	527	1850	467	1360	2480	8020	169	516
29	2070	1170	2900	13900	514	1360	482	1470	1840	7220	172	604
30	1470	1020	2100	11700	427	1160	223	656	---	---	183	642
31	1850	2040	---	---	431	1180	402	1250	---	---	235	863
TOTAL	---	6234	---	326770	---	158620	---	44182	---	232843	---	72340

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)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	399	1480	1630	20100	1770	16300	157	134	3580	5590	1250	1570
2	580	2630	2220	27200	979	9200	147	71	3720	8430	1020	1370
3	797	3380	1280	17100	1130	11900	96	16	4800	11200	1070	954
4	764	3940	1300	18100	753	8010	49	4.9	3430	5920	3920	1980
5	1090	5610	3160	45400	469	4740	31	3.0	1220	1440	3030	1080
6	768	5020	2780	40000	538	4490	60	15	673	600	1040	213
7	743	4910	2170	32600	601	4450	55	16	643	483	700	219
8	1090	7930	1570	23100	621	4930	36	4.0	2870	2240	643	222
9	929	6850	1750	25500	265	2230	47	5.5	42600	69700	160	39
10	866	7300	1410	20500	193	1660	55	8.5	13800	10700	115	24
11	934	8700	1530	22800	336	2760	66	16	27300	33500	238	22
12	925	8490	2610	40300	331	2660	70	40	53700	117000	180	20
13	935	8560	2840	43400	197	1490	321	318	43100	111000	169	15
14	1240	11800	2000	26300	166	1210	243	299	39700	108000	473	56
15	1580	16000	1210	12300	170	1220	158	184	34000	61100	1040	406
16	1630	16800	1080	10000	116	767	102	83	40900	78600	701	549
17	2120	21900	1120	9740	100	599	90	66	47700	73800	563	541
18	2020	21000	1200	10600	145	795	152	98	14300	15700	1820	2260
19	1690	20300	1420	11600	193	980	121	46	2480	2800	2690	4710
20	1880	22700	1180	9520	752	3630	83	24	5820	4120	2460	5430
21	1120	12300	2170	18900	287	1290	86	21	528	378	1520	3290
22	799	8780	2620	24900	203	893	10400	7730	285	215	5590	12500
23	766	8270	2420	24800	225	1050	4560	1220	3580	2490	3570	6390
24	795	8690	5740	64900	708	2770	19900	16300	1360	1020	959	1280
25	1090	11700	5960	59400	529	2000	40900	140000	411	350	718	932
26	968	11300	2980	30100	1460	4890	19300	54200	866	1040	321	330
27	734	8600	1650	16900	420	1090	30200	98800	1140	1570	206	180
28	742	8550	1530	15500	153	226	26300	79400	1080	897	178	175
29	1080	12700	1940	18700	163	151	10000	20000	5970	4140	195	203
30	1280	15700	1480	16100	169	154	3630	6310	7480	6580	193	185
31	---	---	1070	11000	---	---	1250	2070	1860	2070	---	---
TOTAL	---	311890	---	767360	---	98535	---	427502.9	---	742673	---	47145

TOTAL LOAD FOR YEAR: 3236094.9 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. 34, on right bank 0.4 mi northwest of Atchison, Topeka and Santa Fe Railway Co. bridge over floodway channel, 1.0 mi southwest of former site of San Marcial, 3.5 mi downstream from railroad bridge near Tiffany siding, and 51 mi downstream from heading at San Acacia.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	450	373	340	292	274	245	452	481	410	329	337	278
2	440	304	338	286	277	248	500	464	388	328	311	271
3	408	293	342	287	276	292	511	450	429	331	350	290
4	341	297	313	292	276	313	471	505	484	270	310	322
5	346	314	293	292	276	320	457	479	494	276	255	335
6	354	311	288	292	272	342	454	515	454	300	261	322
7	392	311	285	288	270	316	457	492	406	217	311	344
8	387	317	281	281	268	319	421	515	445	204	324	324
9	368	325	279	286	267	316	421	512	429	199	298	280
10	398	331	277	282	266	303	433	514	443	235	337	244
11	388	335	296	286	262	331	431	527	438	270	226	250
12	380	336	336	289	259	321	417	486	422	290	333	249
13	382	334	314	291	257	323	421	497	418	318	320	233
14	400	327	301	286	253	329	433	497	402	310	238	304
15	379	336	297	283	252	332	464	473	361	316	260	328
16	336	348	293	282	255	342	460	447	344	305	256	408
17	338	342	296	282	256	392	451	465	379	362	277	378
18	314	347	302	281	252	388	433	446	372	398	282	367
19	313	358	314	278	251	396	520	439	336	392	277	389
20	358	345	329	276	244	368	517	429	346	402	246	421
21	377	349	319	279	243	342	440	482	391	326	291	373
22	365	340	323	279	239	333	449	477	324	291	297	376
23	342	344	318	279	238	354	455	513	360	290	304	360
24	353	340	307	278	236	317	462	530	395	348	390	321
25	359	334	312	277	234	347	462	488	395	386	407	331
26	351	336	318	277	235	361	470	394	397	398	367	327
27	317	352	316	278	237	375	513	393	392	415	378	319
28	359	355	307	275	238	405	478	444	378	426	297	337
29	331	349	310	274	240	407	489	407	376	414	279	313
30	317	342	305	272	---	418	466	431	358	375	309	298
31	331	---	300	274	---	414	---	407	---	335	341	---
TOTAL	11274	10025	9549	8754	7403	10609	13808	14599	11966	10056	9469	9692
MEAN	364	334	308	282	255	342	460	471	399	324	305	323
MAX	450	373	342	292	277	418	520	530	494	426	407	421
MIN	313	293	277	272	234	245	417	393	324	199	226	233
AC-FT	22360	19880	18940	17360	14680	21040	27390	28960	23730	19950	18780	19220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1992, BY WATER YEAR (WY)

MEAN	243	570	561	460	452	444	481	571	493	335	279	244
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1965 - 1992

ANNUAL TOTAL	143838	127204	
ANNUAL MEAN	394	348	
HIGHEST ANNUAL MEAN			427
LOWEST ANNUAL MEAN			1137
HIGHEST DAILY MEAN	684	May 22	530
LOWEST DAILY MEAN	215	Feb 20	199
ANNUAL SEVEN-DAY MINIMUM	223	Feb 19	237
ANNUAL RUNOFF (AC-FT)	285300	252300	309600
10 PERCENT EXCEEDS	538	458	1250
50 PERCENT EXCEEDS	377	334	258
90 PERCENT EXCEEDS	256	265	.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 current year.

WATER TEMPERATURE: March 1954 to current year.

SUSPENDED-SEDIMENT DISCHARGE: March 1954 to current year.

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. 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 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, 1,070 microsiemens, Nov. 29; minimum daily, 691 microsiemens, Oct. 31.

WATER TEMPERATURE: Maximum daily, 27.0°C, July 17; minimum daily, 7.0°C, Nov. 3, Dec. 14.

SEDIMENT CONCENTRATION: Maximum daily mean, 6,420 mg/L, July 29; minimum daily mean, 45 mg/L, Dec. 26.

SEDIMENT LOAD: Maximum daily, 7,170 tons, July 29; minimum daily, 39 tons, Dec. 26.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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 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)	
JAN 21...	1401	280	1060	8.3	11.0	11.0	5.0	642	11.2	--	K7	60	
APR 21...	1330	446	995	6.9	23.0	--	100	638	9.0	--	K31	440	
JUN 18...	1215	376	800	7.9	32.0	18.5	34	648	7.8	--	2000	420	
AUG 26...	1220	368	850	8.3	34.0	22.0	100	650	7.1	17	1900	560	
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 LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
JAN 21...	250	46	75	14	120	3	6.2	229	7	200	--	190	
APR 21...	220	86	68	13	110	3	3.4	168	0	--	182	180	
JUN 18...	230	43	70	13	100	3	5.3	227	0	186	--	160	
AUG 26...	230	41	71	13	96	3	6.2	218	7	191	--	160	
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 TOTAL (MG/L AS N) (00620)	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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
JAN 21...	94	0.40	22	642	643	--	<0.010	<0.010	0.095	0.083	0.020	<0.010	
APR 21...	92	0.50	22	612	574	0.200	0.010	<0.010	0.210	0.260	0.030	0.030	
JUN 18...	75	0.40	21	540	558	--	0.030	<0.010	<0.050	0.072	0.030	0.030	
AUG 26...	72	0.50	27	584	566	--	<0.010	<0.010	0.410	0.420	0.020	0.030	

RIO GRANDE BASIN

08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	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)	LITHIUM, DIS- SOLVED (UG/L AS LI) (01130)	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)	
JAN 21...	1401	<10	67	<3	110	7	<1	<1	<1.0	830	<6	
APR 21...	1330	20	73	<3	100	6	<1	<1	<1.0	760	<6	
JUN 18...	1215	10	64	<3	97	<10	<1	<1	<1.0	740	<6	
AUG 26...	1220	1900	87	<3	86	<10	2	<1	<1.0	740	<6	
DATE		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)	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)
JAN 21...	2.0	<0.2	50	220	4	<1	1	<5	2	1200	<10	
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)	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)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	ALPHA SED SUSP DRY WGH AS TH-230 (PCI/L) (04127)	ALPHA, 2 SIGMA SED SUS TOT DRY AS TH-230 (PCI/L) (76004)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)
JAN 21...	980	<0.01	<10	2.2	2.9	--	1.7	0.8	--	0.80	5.0	
JUN 18...	--	--	--	2.6	3.0	1.9	2.2	3.1	2.6	2.2	7.0	
DATE		BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90) (80050)	BETA, 2 SIGMA WATER, DISS, AS SR90 (PCI/L /Y90) (75988)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) (80060)	BETA, 2 SIGMA SED, SUSP, TOT DRY SR90Y90 (PCI/L) (76005)	RA-226 2 SIGMA WATER, DISS, METHOD (PCI/L) (76001)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	
JAN 21...	1.6	3.6	1.1	1.3	1.2	0.60	0.020	0.09	1.6	<1.0		
JUN 18...	1.8	5.3	1.3	3.9	3.6	1.0	0.010	0.06	1.5	<1.0		
DATE		NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	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 DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CYANIDE TOTAL (MG/L AS CN) (00720)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
JAN 21...	0.18	0.20	0.30	0.060	0.050	0.060	0.050	--	<0.010	<3	22	
APR 21...	0.37	0.40	0.61	0.170	0.070	0.090	0.080	--	<0.010	9	10	
JUN 18...	0.27	0.30	--	0.110	0.050	0.100	0.060	--	<0.010	5	4	
AUG 26...	--	<0.20	--	0.150	0.130	0.130	0.120	6.6	--	580	110	

RIO GRANDE BASIN

08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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, SUSP. + BED MA- TERIAL (T/DAY) (80156)
NOV										
18...	1430	348	54.0	3.0	2.13	--	12.0	297	279	519
DEC										
03...	1530	335	53.0	2.9	2.19	--	9.5	271	245	461
20...	1200	332	54.0	2.8	2.17	--	11.0	95	85	176
JAN										
21...	1400	280	52.0	2.5	2.12	--	11.0	66	50	109
MAR										
16...	1520	340	54.0	2.6	2.39	--	14.0	357	328	600
APR										
21...	1300	446	55.0	3.4	2.39	--	8.0	331	399	718
21...	1330	446	--	--	--	995	8.0	459	553	--
MAY										
05...	1700	471	57.0	3.4	2.44	--	18.0	291	370	670
22...	1430	501	56.0	3.7	2.44	--	17.5	608	822	1380
JUN										
18...	1215	376	54.0	3.0	2.32	800	18.5	211	214	1590
30...	1300	367	55.0	3.1	2.17	--	20.0	169	167	326
JUL										
14...	1220	327	60.0	2.7	2.02	--	21.0	221	195	375
AUG										
04...	1325	322	59.0	2.6	2.12	--	21.0	751	653	1120
26...	1220	368	--	--	--	850	22.0	378	376	--
SEP										
02...	1120	277	62.0	2.3	2.00	--	21.0	5120	3830	5580
16...	1615	397	54.0	3.3	2.27	--	22.5	332	356	647

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 .031 MM (70341)	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)
NOV										
18...	--	--	--	--	--	0	27	30	57	100
DEC										
03...	--	--	--	--	--	--	31	36	64	100
20...	--	--	--	--	--	--	88	95	100	--
JAN										
21...	--	--	--	--	--	--	46	56	94	100
MAR										
16...	--	--	--	--	--	0	82	84	97	100
APR										
21...	--	--	--	--	--	0	76	81	98	100
21...	74	--	--	--	--	--	--	--	--	--
MAY										
05...	--	--	--	--	--	--	74	79	96	100
22...	--	--	--	--	--	0	78	82	94	100
JUN										
18...	61	--	--	--	--	0	53	64	85	91
30...	--	--	--	--	--	--	93	99	100	--
JUL										
14...	--	--	--	--	--	--	81	89	99	100
AUG										
04...	--	49	53	65	78	--	95	97	100	--
26...	900	--	--	--	--	--	--	--	--	--
SEP										
02...	--	62	73	81	93	--	98	99	100	--
16...	--	--	--	--	--	--	84	87	96	100

RIO GRANDE BASIN

08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SED. SUSP. DIAM. % FINER THAN 1.00 MM (70346)	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										
18...	--	32	68	94	97	99	100	--	--	--
DEC										
20...	--	0	48	81	92	97	100	--	--	--
JAN										
21...	--	0	1	16	87	99	100	--	--	--
MAR										
16...	--	1	5	16	82	99	100	--	--	--
APR										
21...	--	49	85	96	99	100	--	--	--	--
MAY										
05...	--	0	1	19	96	100	--	--	--	--
22...	--	39	68	79	83	84	87	90	98	100
JUN										
18...	100	33	70	81	87	89	90	92	94	100
JUL										
14...	--	0	1	19	84	98	100	--	--	--
AUG										
04...	--	--	0	14	83	99	100	--	--	--
SEP										
16...	--	0	1	13	95	100	--	--	--	--

RIO GRANDE BASIN

08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, NM -- Continued

WATER-QUALITY RECORDS

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
ONCE-DAILY

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
944	890	969	998	939	973	827	893	937	905	889	896
976	870	981	1000	---	984	823	911	914	868	869	895
983	873	969	1040	964	937	850	898	882	939	865	920
990	873	996	973	---	931	854	839	869	931	870	916
985	725	1010	1020	976	929	847	918	852	866	873	905
964	854	1000	957	---	924	871	875	879	851	862	910
1030	912	998	1000	---	931	855	905	907	843	864	895
922	961	995	1030	930	943	875	875	840	885	883	894
976	972	1000	949	---	924	879	883	831	888	881	929
984	970	999	1030	---	913	876	884	846	954	941	926
1060	958	991	1020	963	904	879	867	845	956	822	902
926	983	989	1020	972	899	902	899	845	952	824	901
984	985	982	1010	935	883	889	893	852	915	948	894
860	976	981	---	943	876	896	889	851	880	964	866
854	983	1000	1020	912	871	906	883	865	879	967	868
853	982	983	1010	929	871	892	903	881	878	928	851
857	977	1010	1010	961	857	902	876	872	828	920	849
858	937	1030	1010	951	897	890	884	890	832	925	809
849	957	1010	995	959	880	864	881	879	830	924	808
852	991	1000	993	944	882	901	881	866	829	858	830
861	996	1020	1030	946	887	926	822	866	905	852	831
852	975	1010	1010	952	872	915	836	922	889	840	830
855	975	1010	1020	966	878	897	797	928	857	841	919
855	984	1010	1020	957	922	901	843	870	856	868	917
886	990	1030	1030	921	852	898	937	866	855	866	893
890	958	1030	1020	975	849	896	989	860	941	964	895
895	968	1010	1020	975	873	884	968	850	946	960	894
892	987	1020	1020	994	855	923	881	830	937	924	872
900	1070	1040	1000	957	858	921	933	849	924	923	872
894	944	1010	1010	---	861	914	874	876	915	883	875
691	---	1010	1010	---	852	---	931	---	889	888	---
909	949	1000	---	---	896	885	889	871	891	893	882
1060	1070	1040	---	---	984	926	989	937	956	967	929
691	725	969	---	---	849	823	797	830	828	822	808

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
ONCE-DAILY

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
14.0	8.0	11.0	12.0	10.0	14.0	15.0	20.5	18.0	22.0	23.0	23.0
16.0	10.0	8.0	11.0	---	14.0	13.0	19.0	21.0	22.0	24.0	24.0
12.0	7.0	8.0	8.5	12.5	14.0	16.0	16.0	19.0	23.0	24.0	24.0
13.0	8.0	10.0	11.0	---	14.0	16.5	18.0	20.0	24.0	24.0	24.0
16.0	12.0	10.0	13.0	13.0	14.0	15.0	19.0	21.0	24.0	24.0	24.0
14.0	10.0	9.0	11.0	---	15.0	18.0	19.0	21.0	26.0	24.0	24.0
12.0	10.0	10.0	8.5	---	16.5	18.0	19.0	19.0	24.0	24.0	24.0
12.0	10.0	8.0	10.0	12.0	12.5	20.0	18.0	20.0	24.0	25.0	24.0
16.0	10.0	11.0	14.0	---	12.0	20.0	20.0	20.0	23.0	24.0	24.0
14.0	11.0	10.0	9.5	---	15.0	20.0	20.0	20.0	25.0	25.0	24.0
14.0	12.0	11.0	10.0	12.0	14.0	20.0	19.0	22.0	23.0	24.0	24.0
12.0	10.0	10.0	10.5	13.0	14.0	20.0	20.0	22.0	23.0	20.0	24.0
14.0	10.0	8.0	10.0	11.0	14.0	18.0	19.0	21.0	24.0	24.0	24.0
14.0	11.0	7.0	---	14.0	15.0	18.0	19.0	21.0	24.0	24.0	23.0
11.0	10.0	8.0	9.0	12.0	16.0	18.0	21.0	19.0	24.0	24.0	22.0
11.0	7.5	11.5	10.0	14.0	16.0	17.0	21.0	21.0	24.0	24.0	24.0
10.0	11.0	13.0	8.5	12.0	14.0	17.0	21.0	20.0	27.0	24.0	25.0
10.0	10.0	11.0	10.0	14.0	14.0	16.0	21.0	24.0	22.0	24.0	24.0
10.0	9.0	14.0	10.0	13.0	15.0	15.5	21.0	23.0	24.0	24.0	23.0
9.0	12.0	12.0	9.0	14.0	15.5	16.0	21.0	21.0	23.0	24.0	24.0
9.5	9.0	8.0	11.0	14.0	14.0	17.0	21.0	21.0	23.0	24.0	24.0
12.0	10.0	12.0	12.0	14.0	16.0	19.0	21.0	19.0	23.0	24.0	24.0
11.0	11.0	12.5	11.5	14.0	17.0	19.0	18.0	22.0	24.0	23.0	24.0
13.0	10.0	12.0	11.0	14.0	15.5	19.0	18.0	21.0	24.0	23.0	24.0
10.0	9.0	10.0	12.0	14.0	14.5	17.0	17.5	21.0	24.0	24.0	24.0
10.0	9.0	13.0	13.5	13.0	17.5	21.0	20.0	21.0	24.0	24.0	24.0
10.0	7.5	12.5	13.0	14.0	14.0	21.0	18.0	19.0	24.0	24.0	24.0
10.0	11.0	11.5	12.0	15.0	16.0	22.0	19.0	23.0	24.0	---	21.0
13.0	12.0	14.0	11.0	15.0	16.0	19.0	17.0	23.0	24.0	---	24.0
10.0	10.0	13.5	12.5	---	16.0	20.5	17.0	22.0	24.0	---	24.0
10.0	---	12.0	12.0	---	15.0	---	17.0	---	24.0	---	---
12.0	9.9	10.7	---	---	14.8	18.0	19.2	20.8	23.8	---	23.8
16.0	12.0	14.0	---	---	17.5	22.0	21.0	24.0	27.0	---	25.0
9.0	7.0	7.0	---	---	12.0	13.0	16.0	18.0	22.0	---	21.0

RIO GRANDE BASIN

08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, NM -- Continued

WATER-QUALITY RECORDS

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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	188	228	114	117	135	124	232	183	114	85	333	220
2	148	175	78	63	138	126	406	313	279	209	856	573
3	197	214	173	137	140	130	650	504	448	334	1060	860
4	260	240	101	81	158	133	161	126	516	384	1170	987
5	217	201	734	624	126	99	1740	1370	853	635	1370	1200
6	257	248	759	638	103	80	1210	952	825	607	1320	1220
7	201	212	200	168	146	112	172	135	627	457	947	809
8	127	133	114	98	88	67	110	83	452	327	1360	1170
9	110	110	90	79	118	89	349	269	380	274	982	836
10	153	165	104	93	116	87	180	137	498	357	958	784
11	227	238	134	121	108	87	135	104	1370	966	1320	1180
12	233	240	152	138	112	101	138	108	3990	2790	1130	981
13	156	160	116	105	146	124	141	111	822	571	725	629
14	133	144	180	159	75	61	187	145	482	329	526	468
15	148	151	304	277	109	88	241	184	1590	1080	817	735
16	103	94	790	741	294	231	153	116	379	261	617	568
17	135	124	827	763	5630	4500	196	149	939	648	572	606
18	150	127	212	199	936	767	64	49	1710	1170	470	491
19	138	117	141	137	447	379	119	89	1600	1080	613	655
20	157	152	116	108	182	162	483	360	669	442	486	481
21	149	152	114	107	70	60	639	481	530	348	360	332
22	125	123	101	93	278	242	319	240	742	479	385	347
23	165	152	128	119	309	266	131	99	651	419	431	413
24	128	122	241	221	125	104	115	86	979	624	315	269
25	92	89	186	168	120	101	88	66	409	259	2000	1860
26	84	80	190	173	45	39	111	83	180	114	613	593
27	79	68	128	120	152	130	853	641	252	161	255	255
28	77	74	105	100	185	153	233	173	860	554	185	203
29	72	65	282	265	139	116	594	439	1190	771	251	277
30	90	77	131	121	203	167	143	105	---	---	309	350
31	154	138	---	---	121	98	1180	873	---	---	337	376
TOTAL	---	4613	---	6333	---	9023	---	8773	---	16735	---	20728

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	391	479	1040	1350	304	338	194	172	670	614	363	272
2	848	1160	1470	1850	241	253	173	153	3540	3020	322	236
3	618	870	353	427	478	576	98	88	1380	1290	1130	908
4	404	519	1090	1490	827	1080	85	62	426	369	1400	1210
5	449	554	2110	2740	448	595	147	112	298	208	611	555
6	658	815	2100	2910	290	356	192	156	545	414	408	356
7	457	565	425	565	320	351	98	57	2440	2100	356	332
8	393	446	593	832	300	361	80	44	1340	1180	330	289
9	425	482	416	574	227	263	252	137	677	571	221	168
10	330	385	297	413	201	240	205	128	4410	4000	167	110
11	336	392	768	1090	167	198	136	99	2110	1310	184	124
12	413	464	2740	3580	172	196	143	112	1480	1330	185	124
13	595	681	4050	5430	178	201	169	145	1040	919	184	116
14	498	576	1460	1970	281	304	193	162	518	326	643	536
15	490	613	1530	1950	164	162	245	209	381	267	822	733
16	638	794	519	628	457	427	196	162	385	266	492	547
17	472	574	524	657	216	222	190	187	374	281	329	336
18	489	573	631	760	300	301	381	411	327	225	283	280
19	700	987	343	406	174	159	374	395	304	201	259	273
20	761	1070	252	292	126	117	369	401	325	217	279	316
21	507	601	792	1040	123	130	278	245	331	260	282	284
22	620	752	463	594	94	82	289	227	589	473	363	370
23	593	729	592	832	90	88	674	529	686	561	219	215
24	494	616	664	952	236	250	621	583	443	460	165	143
25	561	700	1500	1960	325	347	608	629	368	404	140	125
26	1030	1350	807	859	229	244	3370	3630	934	965	125	111
27	916	1270	670	713	227	241	3380	3790	1910	1960	129	112
28	760	981	683	819	404	416	3450	3980	1150	921	133	121
29	363	483	457	504	226	229	6420	7170	944	712	124	105
30	761	959	573	671	171	165	2520	2580	740	614	126	101
31	---	---	391	423	---	---	670	608	665	613	---	---
TOTAL	---	21440	---	39281	---	8892	---	27363	---	27051	---	9508

TOTAL LOAD FOR YEAR: 199740 TONS.

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 good except for estimated daily discharges which are fair. 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.--28 years (water years 1965-92), 754 ft³/s, 546,300 acre-ft/yr. Total flow of river, 97 years (water years 1895-1992), 1,264 ft³/s, 915,800 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, 5,570 ft³/s, May 25; no flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	e17	e1210	e612	e776	1060	1260	4290	4470	153	e560	376
2	83	e295	e1110	e598	e822	936	1540	4260	3810	125	e508	398
3	112	e590	e1010	e676	e923	568	2140	4050	4050	e10	e464	509
4	100	e705	e1070	e611	e1020	1050	2370	e3970	4680	e1.0	e580	230
5	49	e785	e1110	e559	e824	734	2490	e4430	4060	e.50	322	110
6	29	e990	e1220	e609	e877	1000	2320	5090	3400	e.40	173	70
7	19	e1190	e1120	e563	e779	1040	2200	5160	2180	e.30	106	41
8	23	e1480	e1110	e622	e751	1040	2310	5230	2270	e.20	86	14
9	13	e1570	e1230	e674	e812	1030	2420	4930	2620	e.10	83	.00
10	13	e1670	e1330	e609	e783	1030	2540	4760	2700	e.00	555	.00
11	5.9	e1640	e1410	e526	e738	1020	2660	4700	2570	e.00	198	.00
12	2.3	e1660	e1570	e552	e720	1020	2790	5090	2580	e.00	1140	.00
13	.21	e1870	e1790	e540	e793	1010	2920	e5110	2350	e.00	1100	.00
14	.00	e1970	e1860	e494	e746	1010	3050	e5150	2450	e.00	1340	.00
15	.00	e2060	e1910	e467	e728	1000	3190	4430	2350	e.00	779	.00
16	.00	e2000	e1670	e459	e644	995	3340	2950	2030	e.00	544	.00
17	.00	e2060	e1410	e479	e443	991	3490	2500	1710	e.10	575	.00
18	.00	e2100	e1210	e471	e417	987	3640	2490	1680	e.08	360	.00
19	.00	e1640	e992	e453	e388	997	3800	2540	1790	e.06	175	3.2
20	.00	e1700	e1180	e435	e375	881	3970	2330	1800	e.04	129	98
21	.00	e1750	e1390	e522	e357	785	e4100	2530	1630	e.02	93	262
22	.00	e1660	e1360	e602	e380	695	e4050	3140	1730	e.01	59	457
23	.00	e1610	e1240	e572	e402	784	e4020	3920	1860	e.00	28	578
24	.00	e1760	e1130	e593	e416	857	e4000	4620	1430	e.00	28	453
25	.00	e1520	e1150	e624	e413	889	e3950	5570	1330	e.00	37	284
26	.00	e1310	e1190	e644	e394	855	e3890	5150	1200	684	89	239
27	.00	e1150	e1070	e652	e353	842	e3960	4670	749	1120	806	172
28	.00	e1190	e1200	e625	305	850	4050	4520	403	1340	859	20
29	.00	e1150	e994	e666	1020	964	4150	4100	287	967	387	.06
30	e15	e1060	e600	e727	---	1030	4100	4100	212	771	327	.55
31	e15	---	e655	e676	---	1080	---	4880	---	608	328	---
TOTAL	540.41	42152	38501	17912	18399	29030	94710	130660	66381	5780.81	12818	4314.81
MEAN	17.4	1405	1242	578	634	936	3157	4215	2213	186	413	144
MAX	112	2100	1910	727	1020	1080	4150	5570	4680	1340	1340	578
MIN	.00	17	600	435	305	568	1260	2330	212	.00	28	.00
AC-FT	1070	83610	76370	35530	36490	57580	187900	259200	131700	11470	25420	8560
(†)	23430	103490	95310	52890	51170	78620	215290	288160	155430	31420	44200	27780

CAL YR 1991 TOTAL 417024.10 MEAN 1143 MAX 6750 MIN .00 AC-FT 827200 (†) MEAN 1537 AC-FT 1113000
WTR YR 1992 TOTAL 461199.03 MEAN 1260 MAX 5570 MIN .00 AC-FT 914800 (†) MEAN 1608 AC-FT 1167000
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 1905-07, 1946 to current year.

PERIOD OF DAILY RECORD.--

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. 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 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, 277 microsiemens, June 12, 1983.

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, 1,320 microsiemens, Aug. 26, 27; minimum daily, 307 microsiemens, June 27.

WATER TEMPERATURE: Maximum daily, 37.0°C, July 29; minimum daily, 1.5°C, Jan. 3, 22.

SEDIMENT CONCENTRATION: Maximum daily mean, 63,800 mg/L, Aug. 27; minimum daily mean, no flow on many days.

SEDIMENT LOAD: Maximum daily, 157,000 tons, July 28; minimum daily, 0 ton on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUSP. + BED MA- TERIAL (T/DAY) (80155)	SEDI- MENT, DISCH, SUSP. + BED MA- TERIAL (T/DAY) (80156)	SED. SUSP. FALL DIAM. % FINER THAN (70337)	SED. SUSP. FALL DIAM. % FINER THAN (70338)	SED. SUSP. FALL DIAM. % FINER THAN (70339)
NOV												
06...	1230	546	217	1.5	1.63	8.0	2840	4190	5560	40	52	58
15...	1410	1230	155	2.1	3.89	10.0	2440	8100	6270	30	33	38
DEC												
23...	1045	1320	156	2.0	4.26	3.5	2780	9910	12200	20	21	--
JAN												
03...	1400	868	155	1.7	3.23	1.5	1460	3420	4610	14	17	--
22...	1020	830	203	1.2	3.41	1.5	1630	3650	4900	12	14	--
FEB												
21...	1450	456	204	1.2	1.85	10.0	2020	2490	3450	51	59	67
MAR												
06...	1500	1050	157	1.9	3.56	8.0	3510	9950	12300	46	57	57
MAY												
05...	1350	4580	355	2.8	4.70	17.0	2920	36100	40000	26	27	29
JUN												
08...	1215	2670	182	3.0	4.86	18.5	2160	15600	18500	13	14	16
30...	1300	178	--	--	--	20.0	296	142	--	--	--	--
AUG												
04...	1100	501	2.02	1.3	1.90	21.0	15200	20600	23900	53	65	74

DATE	SED. SUSP. FALL DIAM. % FINER THAN (70340)	SED. SUSP. FALL DIAM. % FINER THAN (70341)	SED. SUSP. FALL DIAM. % FINER THAN (70342)	SED. SUSP. FALL DIAM. % FINER THAN (70343)	SED. SUSP. FALL DIAM. % FINER THAN (70344)	SED. SUSP. FALL DIAM. % FINER THAN (70345)	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)
NOV											
06...	78	0	96	100	--	--	31	83	90	99	100
15...	48	0	69	82	100	--	18	43	90	100	--
DEC											
23...	27	--	50	77	100	--	--	--	--	--	--
JAN											
03...	25	0	44	55	93	100	4	11	59	99	100
22...	21	0	37	66	100	--	1	9	91	100	--
FEB											
21...	71	--	75	79	96	100	--	--	--	--	--
MAR											
06...	68	--	82	90	99	100	0	4	58	100	100
MAY											
05...	36	0	51	75	97	100	2	24	85	99	100
JUN											
08...	20	0	44	79	100	--	38	60	98	100	--
30...	--	0	72	--	--	--	7	36	81	98	100
AUG											
04...	86	0	92	98	100	--	17	37	93	99	100

RIO GRANDE BASIN

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM -- Continued

WATER-QUALITY RECORDS

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
ONCE-DAILY

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
---	658	652	613	597	570	484	409	401	538	553	480
---	613	753	622	591	551	465	408	398	537	701	484
---	594	836	604	589	553	495	404	406	543	715	522
---	608	701	584	774	579	499	417	392	536	514	521
---	596	623	586	727	581	503	424	396	550	511	708
---	591	623	575	746	575	488	423	394	546	576	709
---	588	614	599	703	561	465	442	398	572	574	714
---	589	618	616	581	575	465	429	402	640	660	714
---	588	617	583	635	561	460	417	394	644	639	---
---	589	613	567	581	575	456	417	397	---	1190	---
---	533	611	566	585	543	485	425	408	---	742	---
---	555	614	568	587	543	466	439	405	---	730	---
---	530	616	590	593	545	468	433	408	---	737	---
---	527	837	---	581	547	472	427	419	---	885	---
---	530	646	581	579	539	482	420	415	---	854	---
---	526	---	585	583	532	483	416	417	---	600	---
---	528	---	588	652	522	492	414	441	523	600	---
---	525	---	595	661	514	493	410	442	525	557	---
---	527	---	621	692	516	486	409	443	535	557	---
---	526	---	628	684	514	454	407	441	536	595	---
---	605	---	599	683	511	452	410	441	578	594	531
---	609	---	581	693	514	444	400	454	581	553	349
---	614	600	571	693	511	431	448	453	---	569	558
---	613	582	569	696	516	417	570	504	---	594	558
---	614	572	585	690	500	403	485	503	---	595	---
---	616	559	585	688	502	408	444	478	---	1320	---
---	614	567	593	883	499	407	420	307	871	1320	565
---	613	562	608	804	493	416	410	500	872	722	564
---	613	587	589	683	487	407	413	512	866	718	563
---	533	622	575	---	485	410	410	534	665	613	565
---	---	623	587	---	489	---	396	---	554	604	---
---	579	---	---	663	532	459	426	430	---	700	---
---	658	---	---	883	581	503	570	534	---	1320	---
---	525	---	---	579	485	403	396	307	---	511	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
ONCE-DAILY

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
---	11.0	9.0	6.5	5.0	11.0	15.0	23.0	23.0	26.0	35.0	27.0
---	10.0	10.0	5.0	9.0	11.0	13.0	20.0	23.0	28.0	27.0	30.0
---	10.0	10.0	2.0	9.0	12.0	17.0	18.0	22.0	29.0	25.0	25.0
---	10.0	10.0	7.0	7.0	11.0	17.0	20.0	24.0	30.0	28.0	25.0
---	10.0	8.0	8.0	10.0	12.0	16.0	20.0	25.0	34.0	27.0	26.0
---	10.0	8.0	8.0	7.0	13.0	19.0	20.0	25.0	29.0	26.0	25.0
---	9.0	9.0	5.5	6.0	13.0	20.0	20.0	23.0	33.0	27.0	30.0
---	8.5	10.0	5.0	8.0	10.0	20.0	19.0	23.0	32.0	28.0	29.0
---	9.0	10.0	7.0	10.0	8.0	20.0	19.0	25.0	30.0	27.0	---
---	10.0	10.0	5.0	8.0	11.0	21.5	19.0	25.0	---	30.0	---
---	10.0	10.0	4.0	9.0	9.5	21.0	19.0	26.0	---	22.0	---
---	9.0	10.0	5.0	9.0	10.0	20.5	20.0	26.0	---	22.0	---
---	9.5	9.5	4.0	9.0	14.0	20.0	21.0	26.0	---	27.0	---
---	10.0	9.0	---	10.0	15.0	21.0	21.0	24.0	---	25.0	---
---	10.0	9.0	2.0	7.0	14.0	20.0	23.0	24.0	---	27.0	---
---	9.0	---	4.0	10.0	16.0	18.0	23.0	23.0	---	27.0	---
---	10.5	---	6.0	8.0	13.0	20.0	23.0	23.0	32.0	26.0	---
---	11.0	---	2.0	7.0	13.0	18.0	23.0	24.0	31.0	27.0	---
---	10.0	---	2.5	8.0	14.0	16.0	22.0	25.0	33.0	28.0	---
---	10.0	---	4.0	10.0	13.0	15.0	22.0	25.0	34.0	---	---
---	10.0	---	4.5	9.5	14.0	17.0	22.0	24.0	33.0	27.0	23.0
---	9.0	---	5.0	---	15.0	18.0	22.0	21.0	33.0	27.0	22.0
---	10.0	6.5	7.0	---	15.0	20.5	18.0	22.0	---	27.0	25.0
---	10.0	8.0	5.0	---	15.0	20.5	18.0	25.0	---	26.0	24.0
---	10.0	4.0	7.0	---	15.5	20.0	18.0	25.0	---	27.0	---
---	10.0	8.0	9.5	9.5	16.0	21.0	21.0	25.0	---	27.0	---
---	8.0	7.5	9.0	9.5	13.0	22.0	14.0	22.0	34.0	27.0	25.0
---	9.0	6.0	5.5	11.0	15.0	22.0	23.0	26.0	35.0	---	25.0
---	11.0	9.0	5.5	12.0	13.0	22.0	21.0	28.0	37.0	---	25.0
---	9.0	7.5	8.0	---	13.0	22.0	20.0	27.0	25.0	---	25.0
---	---	7.5	8.0	---	17.0	---	23.0	---	32.0	---	---
---	9.7	---	---	---	13.1	19.1	20.5	24.3	---	---	---
---	11.0	---	---	---	17.0	22.0	23.0	28.0	---	---	---
---	8.0	---	---	---	8.0	13.0	14.0	21.0	---	---	---

RIO GRANDE BASIN

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM -- Continued

WATER-QUALITY RECORDS

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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	508	84	2910	133	1660	5430	1640	2720	1290	2700	4050	11600
2	692	155	3200	2540	1270	3810	2770	4470	1790	3970	2670	6760
3	1020	309	2680	4260	2560	6990	895	1630	1750	4350	2860	4390
4	1310	353	2850	5420	2730	7880	1140	1880	140	386	3700	10500
5	1530	203	2380	5040	4300	12900	2260	3410	215	478	4240	8400
6	1500	117	2370	6330	4940	16300	2280	3750	279	661	3470	9370
7	1260	64	2670	8580	3850	11600	1350	2050	273	574	3120	8750
8	1520	95	2540	10200	5490	16400	1320	2210	241	489	2900	8140
9	1740	61	3050	12900	3090	10300	5380	9790	176	386	2580	7180
10	2590	91	3150	14200	4280	15400	3460	5700	99	209	4150	11500
11	2070	33	8790	38900	4600	17500	3350	4750	111	221	1880	5170
12	1880	12	8360	37500	2700	11400	2730	4070	149	290	1670	4610
13	1680	.95	5650	28500	1340	6470	3320	4840	136	291	1610	4400
14	0	.00	6860	36500	2320	11700	3340	4450	105	211	1780	4860
15	0	.00	7610	42300	5500	28400	1570	1980	193	379	3310	8920
16	0	.00	8070	43600	6350	28600	2740	3400	97	169	3750	10100
17	0	.00	7720	42900	5220	19900	1920	2480	125	150	2410	6440
18	0	.00	9660	54800	4910	16100	1190	1520	113	127	1450	3870
19	0	.00	7540	33400	4860	13000	2790	3410	110	115	1380	3730
20	0	.00	7990	36700	4790	15300	2030	2380	6520	6600	1190	2820
21	0	.00	8290	39200	4630	17400	6690	9430	3830	3690	1050	2220
22	0	.00	5380	24100	3760	13800	4170	6780	3160	3240	992	1860
23	0	.00	4580	19900	3430	11500	1240	1910	2760	3000	944	2000
24	0	.00	3280	15600	2560	7810	1880	3010	2810	3150	1230	2830
25	0	.00	5140	21100	2380	7400	4210	7090	3220	3590	1800	4310
26	0	.00	9180	32500	2070	6640	2410	4200	2920	3100	1560	3600
27	0	.00	6040	18800	1770	5120	3730	6560	6120	5830	1170	2670
28	0	.00	9820	31500	2330	7540	1650	2780	10600	8750	848	1950
29	0	.00	7940	24600	2020	5410	2160	3880	8810	24200	909	2370
30	1630	66	6250	17900	2040	3310	1840	3610	---	---	1000	2780
31	2230	90	---	---	1000	1780	1180	2160	---	---	1100	3220
TOTAL	---	1733.95	---	709903	---	363090	---	122300	---	81306	---	171320
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	1230	4170	3200	37000	2360	28500	333	138	4250	6420	3880	3940
2	1690	7030	4220	48600	2510	25800	196	66	16700	22800	8170	8780
3	1910	11100	4160	45500	2240	24500	217	5.9	48000	60100	1400	1930
4	2720	17400	2890	31000	1940	24500	257	.7	7730	12100	1410	873
5	2210	14900	3030	36200	1710	18700	64	.1	2110	1830	3580	1060
6	2430	15200	3520	48400	1470	13400	190	.2	9810	4580	5320	1010
7	3010	17800	2930	40800	1170	6870	41	.0	5630	1610	1190	131
8	2200	13700	1720	24300	1950	11900	22	.0	14100	3280	465	18
9	2170	14200	4260	56800	2200	15500	17	.0	19300	4330	0	.00
10	2340	16100	7310	93900	1570	11400	0	.0	53500	80200	0	.00
11	2260	16200	2780	35300	1430	9890	0	.0	38900	20800	0	.00
12	2340	17600	1940	26700	1040	7260	0	.0	34700	107000	0	.00
13	2940	23200	4160	57400	644	4090	0	.0	33400	99200	0	.00
14	2790	23000	2850	39600	5900	39000	0	.0	23300	84400	0	.00
15	2850	24600	3690	44100	1090	6880	0	.0	17100	36000	0	.00
16	2730	24600	2630	20900	737	4040	0	.0	11200	16500	0	.00
17	2540	24000	2720	18400	1670	7700	17	.0	7750	12000	0	.00
18	3350	32900	2360	15900	1060	4790	18	.0	3690	3590	0	.00
19	3240	33300	1560	10700	2090	10100	20	.0	2220	1050	154	1.3
20	3010	32300	1470	9240	833	4050	18	.0	1980	690	7330	1940
21	3740	41400	1780	12200	431	1900	30	.0	968	243	5180	3670
22	3600	39400	1370	11600	473	2210	31	.0	577	92	4710	5810
23	3740	40600	3150	33400	608	3050	0	.0	1070	81	1660	2590
24	5680	61300	8930	111000	1730	6690	0	.0	2230	168	1460	1790
25	3720	39700	5730	86200	2020	7260	0	.0	2440	244	1540	1180
26	2700	28400	3460	48100	757	2450	40500	74800	24400	5870	1330	857
27	1910	20400	2690	33900	581	1170	43100	130000	63800	139000	1020	475
28	1320	14400	2580	31500	411	447	43500	157000	19900	46100	1980	107
29	2060	23000	2630	29100	300	232	44600	117000	15400	16100	2900	.47
30	3500	38700	2360	26100	294	168	21000	43600	20500	18100	1280	1.9
31	---	---	2210	29100	---	---	5450	8950	9590	8500	---	---
TOTAL	---	730600	---	1192940	---	304447	---	531560.9	---	812978	---	36164.67

TOTAL LOAD FOR YEAR: 5058343.52 TONS.

RIO GRANDE BASIN

08360500 ELEPHANT BUTTE RESERVOIR AT ELEPHANT BUTTE, NM

LOCATION.--Lat 33°09'15", long 107°11'28", in NW¼ sec.30, T.13 S., R.3 W., Sierra County, Hydrologic Unit 13020211, at dam on Rio Grande, 1 mi west of Elephant Butte, 4 mi northeast of Truth or Consequences (Hot Springs), and at mile 1,383.2.

DRAINAGE AREA.--29,445 mi², approximately, including 2,940 mi² in closed basin in San Luis Valley, CO.

PERIOD OF RECORD.--March 1915 to December 1939 (monthend contents only published in WSP 1312), January 1940 to September 1965 (monthend contents only), October 1965 to current year.

REVISED RECORDS.--WSP 1442: 1954(m). WSP 1632: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 43.3 ft above National Geodetic Vertical Datum of 1929. Oct. 16, 1939, to May 2, 1940, and prior to September 1930, nonrecording gages.

REMARKS.--Reservoir is formed by concrete dam. Storage began Jan. 6, 1915. Dam completed May 13, 1916. Capacity, 2,065,000 acre-ft, survey of 1988 at gage height 4,407.0 ft crest of spillway. Capacity by original survey was 2,638,900 acre-ft. No adjustment made for decrease in capacity due to sedimentation between effective dates of capacity tables. No dead storage. No storage allocated to flood control. Water is used for power development and irrigation on Rio Grande Project of U.S. Bureau of Reclamation. A 50,000-acre-ft permanent pool is authorized for recreational purposes.

COOPERATION.--Records provided by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily contents, 2,303,000 acre-ft, June 16-18, 1942, gage height, 4,409.19 ft; minimum daily contents after initial filling, 9,900 acre-ft, Aug. 6, 1954, gage height, 4,258.03 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,018,100 acre-ft, June 5, gage height, 4,405.71 ft; minimum contents, 1,551,200 acre-ft, Oct. 28, gage height, 4,391.45 ft.

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

4,380	1,241.2	4,400	1,819.7
4,390	1,509.1	4,410	2,177.0

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1573100	1551500	1621000	1715200	1771800	1802100	1758400	1856500	2008800	1980200	1879300	1819100
2	1572200	1552100	1622200	1716800	1774100	1801100	1756100	1862200	2012000	1975200	1876900	1816100
3	1571600	1552400	1625200	1718700	1776400	1800400	1754800	1868000	2014200	1972000	1874500	1815100
4	1570700	1552700	1627700	1721300	1778700	1798100	1753800	1874500	2016700	1968800	1873500	1812700
5	1568600	1553300	1631300	1722900	1779000	1797100	1754500	1880000	2018100	1965600	1872500	1810400
6	1566500	1554400	1633800	1724100	1781900	1796800	1755100	1886500	2017000	1962400	1870800	1808100
7	1564500	1555900	1636300	1725400	1784600	1795800	1756800	1891300	2014500	1958200	1867000	1805700
8	1563900	1558000	1638700	1727700	1786500	1794800	1758400	1898500	2012700	1954000	1865000	1803100
9	1560300	1559200	1641500	1729900	1788900	1793800	1759700	1905100	2011300	1949400	1862900	1800100
10	1558000	1564200	1644300	1731500	1791200	1793100	1762300	1911000	2011600	1943400	1860500	1798400
11	1556500	1564200	1647700	1733500	1792800	1791800	1764600	1916900	2013100	1938900	1859500	1795800
12	1555600	1566800	1651100	1735400	1795500	1789800	1766900	1923800	2016000	1934300	1855400	1793100
13	1554700	1567400	1654800	1738000	1797100	1788200	1769800	1930800	2014500	1930100	1855100	1790500
14	1553900	1569500	1657900	1740200	1799800	1786900	1772100	1935700	2013100	1927300	1853700	1788200
15	1552400	1571600	1661000	1742500	1801800	1785200	1775400	1943800	2012000	1924200	1852400	1789200
16	1551500	1574900	1663800	1744100	1803400	1783900	1778700	1947300	2011600	1921100	1851000	1785900
17	1551800	1578100	1666900	1746000	1805100	1781900	1782600	1950800	2010200	1917600	1850000	1783900
18	1552400	1581400	1670000	1748000	1806700	1780600	1786500	1954700	2010200	1913100	1851400	1782600
19	1552100	1585000	1673800	1749900	1807700	1779000	1790500	1957500	2009500	1908600	1848000	1779600
20	1552100	1588300	1680000	1751200	1808400	1778000	1794800	1958600	2007000	1903700	1843900	1776700
21	1552100	1592200	1684800	1752500	1808700	1776000	1800100	1960700	2004500	1900600	1841900	1773700
22	1552100	1595500	1687600	1753200	1807700	1774100	1805400	1963500	2001900	1897200	1837200	1774400
23	1552100	1598500	1690400	1755800	1808100	1771800	1811100	1968500	2001600	1893700	1835200	1774400
24	1552100	1601800	1693300	1757100	1808400	1770100	1817100	1973400	1999400	1891000	1833200	1774400
25	1552100	1604600	1696400	1760000	1805100	1768800	1822400	1978400	1998000	1889200	1830500	1774700
26	1551800	1607600	1699900	1761300	1805400	1766900	1827800	1983400	1995100	1887200	1829500	1775400
27	1551500	1610000	1702800	1762900	1804400	1764600	1833200	1986900	1993700	1885100	1828100	1776000
28	1551200	1612100	1705600	1764600	1803400	1763300	1838900	1991900	1992300	1884400	1826400	1777000
29	1551500	1614300	1708500	1766200	1803100	1761600	1845600	1997600	1990100	1883400	1825100	1777000
30	1552700	1618200	1711700	1768200	---	1760000	1850700	2001200	1984400	1883100	1823800	1776000
31	1551500	---	1713900	1770100	---	1758400	---	2004800	---	1881400	1821800	---
MAX	1573100	1618200	1713900	1770100	1808700	1802100	1850700	2004800	2018100	1980200	1879300	1819100
MIN	1551200	1551500	1621000	1715200	1771800	1758400	1753800	1856500	1984400	1881400	1821800	1773700
(†)	4391.46	4393.69	4396.76	4398.50	4399.50	4398.14	4400.92	4405.34	4404.77	4401.82	4400.06	4398.68
(††)	-21900	+66700	+95700	+56200	+33000	-44700	+92300	+154100	-20400	-103000	-59600	-45800
CAL YR 1991	MAX 1713900	MIN 1370400	(††)	+344300								
WTR YR 1992	MAX 2018100	MIN 1551200	(††)	+202600								

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

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.

DRAINAGE AREA.--29,450 mi², approximately, including 2,940 mi² in closed basin in San Luis Valley, CO.

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. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	667	6.8	7.2	13	11	1430	1930	1320	2170	1960	1280	1320
2	658	6.8	7.2	13	17	1430	1940	1160	2160	1970	1280	1320
3	651	6.8	7.2	14	18	1440	1950	1160	2250	1990	1280	1320
4	741	6.8	7.2	13	18	1520	1950	1160	2840	2000	1280	1320
5	1100	6.8	7.4	13	18	1490	1950	1640	3090	2010	1280	1320
6	1260	6.8	7.4	13	18	1450	1950	1880	2980	2010	1280	1320
7	1270	6.8	7.4	12	18	1450	1390	1860	2950	1980	1280	1320
8	1270	6.8	7.4	6.8	18	1440	1180	1850	3010	1970	1270	1320
9	1280	6.8	7.4	6.8	10	1450	1190	1840	2430	1980	1270	1320
10	869	6.8	7.4	8.1	18	1660	1200	1830	2050	1930	1270	1330
11	651	6.8	7.5	6.8	18	1780	1210	1820	2050	1910	1270	1330
12	661	6.8	7.7	8.7	18	1770	1210	1810	2050	1900	1270	1330
13	672	6.8	7.7	6.8	10	1740	1220	1810	2060	1880	1260	1330
14	682	6.9	7.7	9.0	10	1760	1230	1820	2060	1890	1260	1340
15	695	7.1	7.7	8.9	18	1760	1210	1820	2060	1900	1260	1340
16	121	7.2	7.7	12	18	1750	1200	1820	2060	1900	1260	1340
17	6.4	7.2	7.7	14	18	1750	1200	1820	2060	1890	1260	1350
18	6.0	7.2	7.7	14	18	1750	1250	1820	2070	1880	1260	1350
19	6.0	7.2	7.7	14	18	1750	1260	1820	2080	1880	1270	1360
20	6.4	7.2	7.4	11	441	1840	1290	1820	2100	1880	1260	1370
21	6.9	7.2	7.6	13	687	1890	1200	1510	2120	1870	1260	968
22	7.8	7.2	7.3	11	691	1890	1180	1360	2140	1870	1270	74
23	7.6	7.2	6.8	12	695	1760	1280	1370	2140	1870	1270	68
24	8.3	7.2	6.5	12	696	1910	1290	1370	2110	1490	1280	70
25	8.3	7.2	7.1	12	697	1910	1300	1370	2100	1290	1280	69
26	8.5	7.2	7.2	6.8	699	1920	1300	1370	1990	1290	1290	68
27	8.8	7.2	7.2	14	700	1780	1170	1270	1980	1290	1290	68
28	8.4	7.2	7.2	16	712	1930	1170	1220	1970	1290	1300	70
29	7.7	7.2	7.2	16	1170	1930	1160	1230	1960	1290	1300	69
30	8.2	7.2	7.2	17	---	1950	1330	1840	1960	1290	1310	70
31	7.7	---	7.2	17	---	1940	---	2170	---	1280	1310	---
TOTAL	13361.0	210.4	228.2	364.7	7498	53220	41290	49960	67050	54830	39560	28244
MEAN	431	7.01	7.36	11.8	259	1717	1376	1612	2235	1769	1276	941
MAX	1280	7.2	7.7	17	1170	1950	1950	2170	3090	2010	1310	1370
MIN	6.0	6.8	6.5	6.8	10	1430	1160	1160	1960	1280	1260	68
AC-FT	26500	417	453	723	14870	105600	81900	99100	133000	108800	78470	56020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1992, BY WATER YEAR (WY)

	336	282	328	331	711	1148	1510	1556	1750	1698	1413	797
MEAN	336	282	328	331	711	1148	1510	1556	1750	1698	1413	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	2.24	.000	3.38	16.6	188	8.32	284	673	155	2.73
(WY)	1986	1972	1986	1918	1955	1983	1977	1957	1964	1964	1954	1954

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1917 - 1992

ANNUAL TOTAL	301799.7	355816.3	
ANNUAL MEAN	827	972	989
HIGHEST ANNUAL MEAN			2665
LOWEST ANNUAL MEAN			253
HIGHEST DAILY MEAN	2130	3090	8220
LOWEST DAILY MEAN	6.0	6.0	.00
ANNUAL SEVEN-DAY MINIMUM	6.7	6.7	.00
INSTANTANEOUS PEAK FLOW			8220
ANNUAL RUNOFF (AC-FT)	598600	705800	716800
10 PERCENT EXCEEDS	1990	1970	2070
50 PERCENT EXCEEDS	869	1260	1010
90 PERCENT EXCEEDS	7.2	7.2	5.2

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, 97,860 acre-ft, June 26, gage height, 4,154.84 ft; minimum contents, 20,380 acre-ft, Oct. 6, gage height, 4,134.63 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 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22460	28650	31620	38510	34250	26620	36430	41220	70680	96280	78830	61880
2	22010	28730	31700	38760	34170	25980	36730	40800	72480	95350	79190	61040
3	21670	28840	31700	39010	34060	25980	37370	40570	74010	95060	79560	59790
4	21150	28910	31780	39130	34310	25730	38880	39960	75560	94770	80020	58680
5	20690	29020	31920	39260	33800	25730	39350	39580	80490	94420	80810	58010
6	20380	29120	31980	39350	33750	25810	39800	39730	82080	94020	80700	57340
7	21330	29200	32080	39860	33690	25640	40050	40630	85290	93840	81070	56760
8	22230	29300	32190	40630	33720	25470	40210	42050	88640	92930	80910	55930
9	23320	29380	32250	41090	33750	25320	40440	43490	91790	91960	80760	55570
10	24450	29700	32390	40730	33750	25150	40630	44980	93270	91110	80650	55400
11	25080	29910	32610	40250	33470	25390	40860	46490	93900	90430	80550	55360
12	24860	29910	32910	39770	33270	25830	41090	47860	94540	89760	79140	55280
13	24810	29910	32970	39320	33160	26350	41290	48560	95230	89140	78260	55200
14	24760	29940	33080	39100	33130	26450	41520	49150	95930	88370	77700	55120
15	24690	30090	33190	38350	33190	27200	41750	49750	96690	88090	76470	55610
16	26030	30230	33270	37800	33240	27660	41980	50580	97330	87810	75260	56550
17	26900	30360	33350	37100	33300	28140	42150	51420	97570	87650	74110	57000
18	27200	30520	33490	37100	33350	28680	42250	52300	97570	87210	74110	57130
19	27300	30650	33720	37130	33330	29280	42350	53090	97570	86770	71650	57170
20	27400	30680	34310	37160	32770	29880	42410	53840	97510	86330	70250	57210
21	27530	30760	35110	37190	32610	30390	42480	54640	97450	86110	69580	57210
22	27660	30890	35580	36730	32550	30890	42510	55040	97450	85620	68870	57380
23	27710	30970	35750	36230	32440	31410	42480	56630	97630	85570	68160	57170
24	27860	31000	36050	35550	32360	31730	42480	58260	97690	85190	67360	56840
25	27990	31110	36490	35430	31950	32360	42480	59920	97690	84100	67360	54760
26	28060	31160	36940	35230	31190	33080	42450	61520	97860	83030	66570	52770
27	28170	31270	37220	35030	30200	33440	42410	63560	97630	81970	65880	50840
28	28270	31350	37460	34850	39020	33940	42450	65240	97330	80760	65010	48970
29	28370	31410	37700	34680	37380	34450	42080	66570	97040	80230	64280	46960
30	28400	31510	37950	34510	---	34970	41650	67920	96750	79660	63560	45010
31	28580	---	38260	34400	---	35610	---	69290	---	79140	62800	---
MAX	28580	31510	38260	41090	39020	35610	42510	69290	97860	96280	81070	61880
MIN	20380	28650	31620	34400	30200	25150	36430	39580	70680	79140	62800	45010
(†)	4138.07	4139.18	4141.52	4140.22	4141.23	4140.64	4142.58	4149.48	4154.65	4154.46	4148.07	4143.57
(††)	+5450	+2930	+6750	-3860	+2980	-1770	+6040	+27640	+27460	-17610	-16340	-17790
CAL YR 1991	MAX 68540	MIN 15720		(††)	-13240							
WTR YR 1992	MAX 97860	MIN 20380		(††)	+21880							

(†) 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 downstream from Apache Canyon, 1.3 mi upstream from Percha diversion dam, 3 mi northeast of Arrey, 5 mi south of Caballo, and at mile 1,355.6.

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.--54 years, 904 ft³/s, 654,900 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, 2,320 ft³/s, July 8; minimum daily 1.0 ft³/s, Dec. 1-10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	722	3.0	1.0	2.0	156	1620	1840	1470	1110	2280	1250	1780
2	803	3.0	1.0	3.0	156	1600	1860	1460	1220	2260	1050	1860
3	841	3.0	1.0	50	153	1600	1560	1460	1310	2070	1030	1860
4	897	3.0	1.0	3.0	151	1600	1300	1450	1310	1920	1030	1680
5	926	3.0	1.0	3.0	153	1570	1300	1460	1450	1910	1040	1560
6	926	3.0	1.0	3.0	153	1610	1300	1460	1640	1910	1050	1560
7	857	3.0	1.0	3.0	153	1610	1290	1280	1650	2160	1160	1560
8	761	3.0	1.0	3.0	153	1600	1280	1180	1630	2320	1260	1550
9	721	3.0	1.0	188	153	1580	1280	1190	1690	2240	1260	1410
10	707	3.0	1.0	373	153	1570	1270	1200	1880	2220	1260	1260
11	726	3.0	2.0	373	153	1570	1260	1200	1880	2200	1620	1240
12	772	3.0	2.0	373	153	1600	1260	1400	1810	2200	1770	1300
13	777	3.0	2.0	369	153	1620	1260	1560	1730	2180	1580	1390
14	468	2.0	2.0	368	153	1650	1270	1560	1750	2040	1760	1390
15	183	2.0	2.0	368	153	1680	1280	1470	1750	1980	1950	1320
16	3.0	2.0	2.0	368	153	1700	1280	1410	1950	1980	1920	1140
17	3.0	2.0	2.0	185	153	1680	1300	1420	2140	2050	1910	1030
18	3.0	2.0	2.0	3.0	153	1670	1310	1430	2140	2120	1910	999
19	3.0	2.0	2.0	3.0	250	1670	1310	1540	2140	2120	1910	978
20	3.0	2.0	2.0	3.0	388	1720	1320	1570	2140	2120	1760	985
21	3.0	2.0	2.0	245	664	1790	1290	1520	2140	2130	1620	985
22	3.0	2.0	2.0	367	830	1810	1280	1090	2140	2010	1610	1010
23	3.0	2.0	2.0	367	830	1810	1280	830	2170	1990	1600	1050
24	3.0	2.0	2.0	245	830	1780	1280	855	2180	1910	1460	1140
25	3.0	2.0	2.0	157	1060	1750	1280	862	2180	1910	1520	1190
26	3.0	2.0	2.0	157	1260	1770	1290	741	2100	1910	1690	1110
27	3.0	2.0	2.0	157	1280	1780	1290	670	2000	1910	1670	1100
28	3.0	2.0	2.0	157	1460	1800	1390	696	2000	1680	1670	1100
29	3.0	2.0	2.0	157	1640	1800	1480	914	2000	1510	1650	1150
30	3.0	2.0	2.0	157	---	1800	1480	1110	2140	1490	1650	1190
31	3.0	---	2.0	157	---	1800	---	1110	---	1510	1650	---
TOTAL	11135.0	73.0	52.0	5367.0	13250	52210	40470	38568	55370	62240	47270	38877
MEAN	359	2.43	1.68	173	457	1684	1349	1244	1846	2008	1525	1296
MAX	926	3.0	2.0	373	1640	1810	1860	1570	2180	2320	1950	1860
MIN	3.0	2.0	1.0	2.0	151	1570	1260	670	1110	1490	1030	978
AC-FT	22090	145	103	10650	26280	103600	80270	76500	109800	123500	93760	77110
(†)	7	0	0	0	0	104	92	0	84	21	144	173

CAL YR 1991 TOTAL 315612.0 MEAN 865 MAX 2250 MIN 1.0 AC-FT 626000
WTR YR 1992 TOTAL 364882.0 MEAN 997 MAX 2320 MIN 1.0 AC-FT 723700

(†) 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)

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 1991 TO SEPTEMBER 1992

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 HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. FER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
NOV												
13...	1014	175	1780	8.5	12.5	12.0	14	666	9.4	200	250	410
JAN												
28...	1035	285	1450	8.4	6.0	6.5	91	671	10.2	120	730	320
APR												
29...	1005	696	1000	8.5	25.0	20.5	38	666	7.8	270	260	240
JUL												
13...	1030	1170	950	8.4	25.0	23.0	65	670	6.7	180	450	240
SEP												
22...	1020	740	1150	8.6	24.0	21.0	63	673	7.7	460	530	260

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)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
NOV											
13...	160	120	27	260	6	10	281	14	254	390	190
JAN											
28...	110	94	21	190	5	8.1	237	10	210	260	170
APR											
29...	68	71	16	120	3	7.8	188	13	176	210	98
JUL											
13...	65	70	15	110	3	7.3	196	7	173	200	86
SEP											
22...	69	77	17	140	4	7.5	209	14	195	230	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 TOTAL (MG/L AS N) (00620)	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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
NOV												
13...	0.70	22	1230	1180	0.700	0.690	0.080	0.080	0.780	0.770	0.040	0.030
JAN												
28...	0.70	17	886	891	0.590	0.620	0.050	0.030	0.640	0.650	0.150	0.130
APR												
29...	0.70	9.6	650	640	--	--	<0.010	<0.010	0.120	0.130	0.020	0.020
JUL												
13...	0.60	9.2	605	604	--	--	<0.010	<0.010	0.220	0.240	0.020	0.020
SEP												
22...	0.80	12	704	713	0.250	--	0.010	<0.010	0.260	0.240	0.020	0.020

RIO GRANDE BASIN

08364000 RIO GRANDE AT EL PASO, TX -- Continued

WATER-QUALITY RECORDS

1

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	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)	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 13...	0.56	0.60	1.4	0.280	0.210	0.170	0.180	30	85	<3	31
JAN 28...	0.85	1.0	1.6	0.410	0.180	0.200	0.170	--	--	--	--
APR 29...	0.28	0.30	0.42	0.080	0.070	0.060	0.060	<10	68	<3	3
JUL 13...	0.68	0.70	0.92	0.290	0.070	0.040	0.040	30	62	<3	<3
SEP 22...	0.78	0.80	1.1	0.220	0.040	0.050	0.040	20	72	<3	<3
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 13...	180	23	<10	<1	<1	<1.0	1600	<6	62	29	42
JAN 28...	--	--	--	--	--	--	--	--	234	180	69
APR 29...	96	6	10	2	<1	<1.0	910	<6	237	445	48
JUL 13...	91	9	10	1	<1	<1.0	860	<6	583	1840	46
SEP 22...	110	5	<10	<1	<1	<1.0	980	<6	244	488	57

RIO GRANDE BASIN

08370500 RIO GRANDE BELOW OLD FORT QUITMAN, TX
(National stream-quality accounting network)

WATER-QUALITY RECORDS

LOCATION.--Lat 31°05'05", long 105°36'25", Hudspeth County, Hydrologic Unit 13040201, at gaging station on the rectified channel of the Rio Grande, 1.5 mi downstream from Old Fort Quitman, and 81.7 mi downstream from the American Dam at El Paso.

DRAINAGE AREA.--31,990 mi², approximately, United States and Mexico; from International Boundary and Water Commission Bulletin No. 46 (excluding 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 1991 TO SEPTEMBER 1992

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)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
NOV												
14...	1119	345	3150	8.0	18.5	14.0	35	667	7.3	4900	6800	600
JAN												
29...	1126	460	2500	7.9	15.5	9.5	96	676	7.2	>6000	8900	460
APR												
30...	1120	173	4250	8.4	29.0	23.0	52	665	10.0	110	170	790
JUL												
14...	1010	83	5200	8.4	24.0	23.5	27	677	8.7	290	410	990
SEP												
23...	1115	415	2570	8.3	25.5	21.0	190	681	7.4	310	710	470

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- LILITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
NOV											
14...	350	170	41	440	8	12	303	0	248	530	600
JAN											
29...	220	130	32	340	7	11	293	0	240	410	410
APR											
30...	540	220	57	620	10	13	259	22	248	700	840
JUL											
14...	720	270	76	810	11	14	298	16	270	830	1000
SEP											
23...	250	130	34	360	7	10	264	0	216	440	420

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 TOTAL (MG/L AS N) (00620)	NITRO- GEN, 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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
NOV												
14...	0.80	25	2000	1990	2.41	2.21	0.090	0.090	2.50	2.30	2.20	2.30
JAN												
29...	0.70	24	1510	1510	0.740	0.770	0.060	0.040	0.800	0.810	3.50	3.50
APR												
30...	0.50	20	2720	2630	1.05	1.06	0.050	0.040	1.10	1.10	0.030	0.010
JUL												
14...	0.70	25	3330	3200	0.340	0.350	0.070	0.040	0.410	0.390	0.030	0.020
SEP												
23...	0.30	20	1600	1550	1.27	1.28	0.030	0.020	1.30	1.30	0.040	0.030

RIO GRANDE BASIN

08370500 RIO GRANDE BELOW OLD FORT QUITMAN, TX -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	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)	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 14...	1.6	3.8	6.3	1.50	1.30	1.20	1.10	20	200	<1	20
JAN 29...	2.3	5.8	6.6	1.90	1.40	1.30	1.30	--	--	--	--
APR 30...	0.67	0.70	1.8	0.550	0.490	0.450	0.430	<10	100	<1	10
JUL 14...	0.87	0.90	1.3	0.280	0.160	0.180	0.140	20	100	1	<10
SEP 23...	1.8	1.8	3.1	1.10	0.350	0.360	0.320	<10	<100	<1	10
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 14...	190	140	7	2	<1	<1.0	3000	16	169	157	51
JAN 29...	--	--	--	--	--	--	--	--	443	550	47
APR 30...	250	70	12	2	<1	<1.0	3600	21	166	78	57
JUL 14...	260	60	15	2	<1	<1.0	4400	29	123	28	88
SEP 23...	170	<10	12	2	<1	<1.0	2200	12	580	650	65

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	e10	e8.0	e9.0	9.3	11	19	186	222	27	17	12
2	34	e9.2	e7.4	e9.0	9.5	11	19	204	187	25	14	11
3	32	e8.5	e6.6	e9.2	9.5	11	19	215	169	24	14	9.8
4	30	e9.9	e6.0	e9.3	9.5	11	20	225	159	23	17	9.3
5	28	e9.3	e5.8	e9.4	9.3	11	21	201	170	22	14	8.9
6	27	e8.7	e5.8	9.7	9.1	11	21	177	172	21	16	8.5
7	26	e8.4	e5.8	9.8	8.9	12	25	172	160	19	13	8.2
8	25	e9.0	e6.4	9.7	9.2	13	32	175	147	19	12	7.9
9	23	e10	e7.2	9.5	9.0	12	41	168	135	19	11	7.5
10	22	e10	e7.7	9.5	8.8	12	50	167	123	20	13	7.3
11	22	e9.0	e8.2	9.6	8.7	12	61	146	115	19	15	7.3
12	21	e9.8	e8.4	9.8	8.6	13	66	139	110	25	17	7.0
13	21	e9.8	e8.6	9.6	8.9	13	90	139	104	26	13	6.9
14	20	e8.8	e8.7	9.5	9.0	13	132	143	97	20	13	6.8
15	19	e8.0	e8.6	9.5	8.7	15	129	150	90	20	12	18
16	18	e8.0	e8.6	9.4	8.9	15	108	148	83	19	11	11
17	17	e8.2	e8.5	9.5	8.9	16	95	150	77	20	10	9.0
18	17	e8.2	e8.5	9.5	8.7	15	99	143	71	17	10	8.3
19	16	e9.2	e8.6	9.3	8.9	15	89	140	67	14	9.7	12
20	16	e11	e8.6	9.2	9.3	16	73	158	65	15	9.0	12
21	16	e8.5	e8.6	9.5	9.3	15	63	178	61	18	9.1	10
22	15	e9.3	e8.6	9.5	9.3	15	60	174	57	15	11	9.4
23	15	e11	e8.6	9.3	9.5	15	59	224	53	15	11	8.9
24	14	e8.2	e8.9	9.2	9.0	14	68	259	49	19	22	8.4
25	14	e9.0	e8.9	9.4	9.5	15	80	266	47	14	18	7.9
26	13	e10	e9.0	9.5	9.5	16	91	310	44	14	16	7.6
27	13	e10	e9.0	9.5	9.7	17	109	294	41	14	13	7.4
28	13	e10	e9.0	9.5	10	18	135	266	39	13	12	7.1
29	11	e9.4	e9.0	9.5	10	17	153	254	37	13	11	7.1
30	13	e8.4	e9.0	9.5	---	17	166	272	32	13	11	7.2
31	11	---	e8.9	9.2	---	18	---	247	---	14	12	---
TOTAL	619	276.8	249.5	292.6	266.5	435	2193	6090	2983	576	406.8	269.7
MEAN	20.0	9.23	8.05	9.44	9.19	14.0	73.1	196	99.4	18.6	13.1	8.99
MAX	37	11	9.0	9.8	10	18	166	310	222	27	22	18
MIN	11	8.0	5.8	9.0	8.6	11	19	139	32	13	9.0	6.8
AC-FT	1230	549	495	580	529	863	4350	12080	5920	1140	807	535
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1992, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
MEAN	14.7	10.0	7.10	5.92	6.02	11.3	36.1	118	79.1	29.7	44.5	27.6
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1964 - 1992

ANNUAL TOTAL	19719.4	14657.9	
ANNUAL MEAN	54.0	40.0	32.6
HIGHEST ANNUAL MEAN			65.3
LOWEST ANNUAL MEAN			11.6
HIGHEST DAILY MEAN	726	May 22	726
LOWEST DAILY MEAN	5.8	Dec 5	5.8
ANNUAL SEVEN-DAY MINIMUM	6.2	Dec 3	6.2
INSTANTANEOUS PEAK FLOW			937
INSTANTANEOUS PEAK STAGE			4.15
INSTANTANEOUS LOW FLOW			5.8
ANNUAL RUNOFF (AC-FT)	39110	29070	23640
10 PERCENT EXCEEDS	146	144	80
50 PERCENT EXCEEDS	25	13	13
90 PERCENT EXCEEDS	8.0	8.5	4.8

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 1991 TO SEPTEMBER 1992

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)	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 18...	1115	8.3	90	7.3	0.5	0.5	1.1	562	11.6	--	--	58
MAR 27...	1245	16	98	8.3	9.0	3.5	6.1	722	13.4	<1	28	62
JUN 25...	1015	47	76	7.8	19.0	9.5	1.7	571	8.2	>200	>500	41
AUG 31...	1330	12	121	7.6	19.0	13.0	0.80	575	8.0	K3	K18	58
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-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	
NOV 18...	6	20	2.0	1.5	0.1	0.50	64	0	52	8.9	1.2	
MAR 27...	10	21	2.2	1.8	0.1	0.40	63	0	52	9.5	0.60	
JUN 25...	10	14	1.4	1.2	0.1	0.40	38	0	31	5.4	0.30	
AUG 31...	8	20	1.9	1.4	0.1	0.60	61	0	50	6.9	0.70	
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, 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)	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)
NOV 18...	0.20	6.3	71	72	<0.010	<0.010	<0.050	<0.050	<0.010	0.010	<0.20	<0.010
MAR 27...	0.30	7.0	76	74	<0.010	<0.010	<0.050	<0.050	0.020	0.020	<0.20	<0.010
JUN 25...	<0.10	5.6	52	48	<0.010	<0.010	0.075	0.240	0.030	0.020	<0.20	<0.010
AUG 31...	0.20	6.4	72	68	<0.010	<0.010	<0.050	<0.050	0.010	0.030	<0.20	0.020
DATE	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)	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)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
NOV 18...	<0.010	<0.010	0.020	20	23	<3	14	<4	<1	<10	1	<1
MAR 27...	<0.010	<0.010	<0.010	210	23	<3	120	<4	2	<10	<1	<1
JUN 25...	0.020	<0.010	<0.010	20	21	<3	17	<4	1	<10	<1	<1
AUG 31...	<0.010	0.010	0.010	<10	27	<3	11	<4	1	<10	<1	<1

RIO GRANDE BASIN

08377900 RIO MORA NEAR TERRERO, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	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)	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)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	ALPHA SED SUSP DRY WGH AS TH-230 (PCI/L) (04127)	ALPHA, 2 SIGMA SED SUS TOT DRY AS TH-230 (PCI/L) (76004)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)
NOV 18...	<1.0	44	<6	1.1	0.60	--	0.80	<0.6	--	0.20	1.5	0.70
MAR 27...	<1.0	47	<6	--	--	--	--	--	--	--	--	--
JUN 25...	<1.0	34	<6	<0.6	0.36	<0.6	0.24	0.7	<0.6	0.49	<0.6	0.39
AUG 31...	<1.0	45	<6	--	--	--	--	--	--	--	--	--
DATE	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90) (80050)	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L CS-137) (75988)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) (80060)	BETA, 2 SIGMA SED, SUSP. TOT DRY SR90Y90 (PCI/L) (76005)	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- 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...	1.3	0.50	<0.6	<0.6	0.50	0.05	0.010	0.34	<1.0	1	0.02	80
MAR 27...	--	--	--	--	--	--	--	--	--	7	0.30	55
JUN 25...	<0.6	0.37	0.7	0.6	0.53	0.05	0.010	0.13	<1.0	11	1.4	65
AUG 31...	--	--	--	--	--	--	--	--	--	3	0.10	100

RIO GRANDE BASIN

08378500 PECOS RIVER NEAR PECOS, NM

LOCATION.--Lat 35°42'30", long 105°40'55", in NE¼NE¼ sec.17, T.17 N., R.12 E., San Miguel County, Hydrologic Unit 13060001, in Santa Fe National Forest, on left bank 30 ft downstream from bridge on private road, 270 ft upstream 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	75	e46	e43	e39	40	86	555	527	167	83	66
2	113	67	e45	e44	e36	40	85	569	471	160	75	55
3	108	67	e43	e44	e31	41	82	576	448	142	74	51
4	104	76	e40	e44	e33	42	91	605	443	137	80	48
5	101	63	e39	e45	e33	40	94	553	485	132	73	46
6	99	63	e37	e47	e32	42	97	503	501	126	76	44
7	97	63	e35	e48	e31	47	117	494	531	122	68	43
8	93	59	e33	e47	e24	51	139	488	496	121	62	42
9	89	59	e31	e45	e24	51	168	474	443	123	60	41
10	87	59	e29	e43	e24	51	201	487	410	123	65	40
11	84	65	e29	e41	e22	48	239	430	398	121	77	39
12	83	56	e28	e39	e24	49	260	418	392	119	79	39
13	81	57	e28	e39	e24	50	338	432	382	e135	65	38
14	79	65	e27	e38	e24	55	475	444	366	e140	63	38
15	77	69	e27	e37	e25	62	463	461	346	e130	61	82
16	75	61	e27	e33	e28	65	393	457	322	e125	57	55
17	72	63	e27	e31	e29	70	352	470	294	e120	55	45
18	71	62	e27	e31	e31	68	354	458	275	e110	54	42
19	70	57	e27	e32	e31	64	318	452	262	e105	52	69
20	69	54	e27	e32	e27	64	266	543	254	e100	49	65
21	69	e52	e27	e32	e24	64	234	575	270	e100	50	62
22	68	e49	e27	e33	e25	67	225	564	257	e103	58	51
23	67	e45	e28	e34	e28	65	219	617	249	e125	56	47
24	64	e48	e34	e34	e26	64	246	631	237	e110	115	45
25	64	e50	e34	e34	e26	65	283	611	233	e97	95	42
26	63	54	e32	e34	e26	70	320	624	217	e90	77	40
27	61	53	e33	e35	e32	76	366	603	210	e85	66	40
28	62	52	e35	e35	e35	78	439	571	193	e80	59	39
29	56	51	e38	e35	e38	79	496	559	183	e78	56	39
30	63	49	e38	e35	---	76	527	596	174	77	54	38
31	59	---	e40	e37	---	83	---	553	---	82	59	---
TOTAL	2467	1763	1018	1181	832	1827	7973	16373	10269	3585	2073	1431
MEAN	79.6	58.8	32.8	38.1	28.7	58.9	266	528	342	116	66.9	47.7
MAX	119	76	46	48	39	83	527	631	531	167	115	82
MIN	56	45	27	31	22	40	82	418	174	77	49	38
AC-FT	4890	3500	2020	2340	1650	3620	15810	32480	20370	7110	4110	2840

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1992, BY WATER YEAR (WY)

	MEAN	217	138	61.9	49.7	42.3	95.5	366	1158	950	299	402	284
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	1957	1951	1951	1950	1956	1956	1956	1956	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1920 - 1992	
ANNUAL TOTAL	61315		50792			
ANNUAL MEAN	168		139		100	
HIGHEST ANNUAL MEAN					267	
LOWEST ANNUAL MEAN					30.7	
HIGHEST DAILY MEAN	1980		631		1980	
LOWEST DAILY MEAN	22		22		6.0	
ANNUAL SEVEN-DAY MINIMUM	24		24		6.7	
INSTANTANEOUS PEAK FLOW			712		4500	
INSTANTANEOUS PEAK STAGE			3.43		6.20	
INSTANTANEOUS LOW FLOW			18		2.0	
ANNUAL RUNOFF (AC-FT)	121600		100700		72750	
10 PERCENT EXCEEDS	387		453		247	
50 PERCENT EXCEEDS	99		64		47	
90 PERCENT EXCEEDS	29		31		21	

RIO GRANDE BASIN

08379187 TECOLOTE CREEK BELOW WRIGHT CANYON NEAR EL PORVENIR, NM

LOCATION.--Lat 35°40'20", long 105°27'58", in NW¼ sec.28, T.17 N., R.14 E., San Miguel County, Hydrologic Unit 13060001, in Santa Fe National Forest, on right bank 2.3 mi upstream from Blue Canyon, and 5.1 mi southwest of El Porvenir.

DRAINAGE AREA.--5.42 mi².

PERIOD OF RECORD.--September 1987 to September 30, 1992 discontinued (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 8,060 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records poor. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 142 ft³/s Aug. 13, 1991, gage height, 3.05 ft, from rating curve extended above 30 ft³/s; minimum discharge recorded, 0.06 ft³/s, July 8, 9, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17 ft³/s, May 23, gage height, 1.86 ft; minimum discharge recorded, 0.36 ft³/s, Sept. Sept. 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.2	1.3	---	---	---	---	---	4.5	7.3	1.4	1.2	.82
2	e3.2	1.3	---	---	---	---	---	4.3	6.5	1.4	1.2	.78
3	e3.2	1.3	---	---	---	---	---	5.1	5.9	1.4	1.2	.76
4	e3.0	1.3	---	---	---	---	---	5.3	5.6	1.4	1.1	.69
5	e3.0	1.3	---	---	---	---	---	4.6	5.2	1.3	1.3	.67
6	e3.0	---	---	---	---	---	---	4.4	4.7	1.3	1.2	.65
7	e3.0	---	---	---	---	---	---	3.8	4.3	1.2	1.1	.59
8	e2.8	---	---	---	---	---	---	3.3	3.7	1.3	1.1	.57
9	e2.8	---	---	---	---	---	---	2.9	3.2	1.3	1.0	.54
10	2.9	---	---	---	---	---	---	2.6	2.8	1.2	1.4	.50
11	2.8	---	---	---	---	---	---	2.3	2.5	1.2	1.4	.48
12	2.8	---	---	---	---	---	---	2.1	2.4	1.2	1.4	.44
13	2.7	---	---	---	---	---	---	1.9	2.3	1.2	1.6	.42
14	2.7	---	---	---	---	---	---	1.8	2.1	1.2	1.5	.40
15	2.8	---	---	---	---	---	---	1.7	2.0	1.2	1.3	1.3
16	2.9	---	---	---	---	---	---	1.6	1.9	1.2	1.2	1.3
17	2.8	---	---	---	---	---	---	1.5	1.9	1.4	1.2	1.1
18	2.6	---	---	---	---	---	---	1.4	1.8	1.3	1.2	.98
19	2.4	---	---	---	---	---	---	1.5	1.8	1.3	1.3	1.4
20	2.4	---	---	---	---	---	---	1.7	1.8	1.3	1.3	1.4
21	2.0	---	---	---	---	---	---	1.6	1.8	1.4	1.1	1.3
22	2.0	---	---	---	---	---	---	1.5	1.7	1.4	1.0	1.2
23	1.8	---	---	---	---	---	---	7.9	1.7	1.3	.95	1.1
24	1.8	---	---	---	---	---	---	6.7	1.8	1.3	1.3	.99
25	1.6	---	---	---	---	---	---	6.8	1.7	1.2	1.1	.88
26	1.6	---	---	---	---	---	---	10	1.6	1.3	.93	.73
27	1.6	---	---	---	---	---	---	8.5	1.5	1.3	.81	.67
28	1.6	---	---	---	---	---	---	7.5	1.5	1.2	.75	.62
29	1.4	---	---	---	---	---	---	7.9	1.4	1.2	.66	.64
30	1.4	---	---	---	---	---	---	9.4	1.4	1.2	.64	.59
31	1.4	---	---	---	---	---	---	8.1	---	1.2	1.3	---
TOTAL	75.2	---	---	---	---	---	---	134.2	85.8	39.7	35.74	24.51
MEAN	2.43	---	---	---	---	---	---	4.33	2.86	1.28	1.15	.82
MAX	3.2	---	---	---	---	---	---	10	7.3	1.4	1.6	1.4
MIN	1.4	---	---	---	---	---	---	1.4	1.4	1.2	.64	.40
AC-FT	149	---	---	---	---	---	---	266	170	79	71	49

e Estimated

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(P), 1939-40, 41-42(P), 1945(M), 1946(P). WSP 1712: 1942(P).

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 fair. 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 1991 TO SEPTEMBER 1992

	Date Apr. 6	Discharge 15.8	Date Aug. 18	Discharge 13.9	Date June 19	Discharge 54.0						
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	85	71	55	54	62	170	573	635	87	87	53
2	158	82	61	48	55	66	155	582	608	76	60	30
3	142	83	52	39	61	71	123	591	556	65	20	19
4	132	77	45	51	61	74	119	624	521	61	16	14
5	127	75	75	65	59	79	127	619	519	63	13	18
6	117	78	85	62	57	79	133	577	537	60	53	22
7	114	76	84	64	55	77	132	534	538	43	23	19
8	109	76	73	57	52	79	160	513	525	37	15	16
9	104	77	71	45	53	91	196	521	479	42	14	14
10	101	79	67	48	56	99	268	497	434	29	15	14
11	95	81	69	50	53	93	332	484	408	41	15	12
12	89	85	75	58	53	94	395	433	385	42	11	12
13	83	85	73	57	53	93	435	438	366	35	14	15
14	80	80	67	49	53	95	557	419	348	30	14	12
15	74	82	60	29	55	98	694	430	324	31	19	12
16	74	100	50	37	53	109	662	441	288	24	19	13
17	60	99	62	45	51	120	579	463	257	19	50	19
18	57	90	62	49	50	131	515	460	234	16	27	37
19	55	91	67	58	48	139	517	446	222	22	57	14
20	57	84	75	43	45	133	470	449	223	22	447	17
21	56	81	76	46	52	126	389	531	329	49	436	12
22	54	80	74	55	55	127	336	566	245	16	101	11
23	51	86	69	51	53	130	300	599	215	25	82	11
24	51	78	63	47	52	129	276	694	191	13	82	16
25	51	61	58	58	56	127	286	732	176	37	67	18
26	51	81	62	56	54	124	326	720	172	37	84	16
27	49	83	66	55	58	131	362	717	195	41	53	16
28	46	80	58	53	58	146	417	701	141	15	44	13
29	50	77	49	51	58	158	487	662	127	17	36	13
30	56	76	53	51	---	161	545	678	110	13	31	12
31	83	---	60	54	---	167	---	680	---	153	34	---
TOTAL	2600	2448	2032	1586	1573	3408	10463	17374	10308	1261	2039	520
MEAN	83.9	81.6	65.5	51.2	54.2	110	349	560	344	40.7	65.8	17.3
MAX	174	100	85	65	61	167	694	732	635	153	447	53
MIN	46	61	45	29	45	62	119	419	110	13	11	11
AC-FT	5160	4860	4030	3150	3120	6760	20750	34460	20450	2500	4040	1030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1992, BY WATER YEAR (WY)

	MEAN	65.0	38.1	27.3	24.5	23.4	56.3	181	360	252	130	197	124
MAX	500	279	103	78.3	78.5	249	854	2031	1150	507	928	679	
(WY)	1942	1942	1942	1942	1987	1985	1942	1941	1941	1941	1991	1941	
MIN	.000	.000	.000	1.82	.92	.29	1.54	2.86	4.17	3.81	13.0	.000	
(WY)	1957	1957	1957	1957	1957	1971	1981	1971	1934	1934	1964	1956	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1929 - 1992		
ANNUAL TOTAL	92183.5			55612					
ANNUAL MEAN	253			152			124		
HIGHEST ANNUAL MEAN							489		
LOWEST ANNUAL MEAN							23.4		
HIGHEST DAILY MEAN	2980			732			10000		
LOWEST DAILY MEAN	4.0			11			.00		
ANNUAL SEVEN-DAY MINIMUM	9.3			13			.00		
INSTANTANEOUS PEAK FLOW				3780			40300		
INSTANTANEOUS PEAK STAGE				8.09			20.34		
INSTANTANEOUS LOW FLOW				8.4					
ANNUAL RUNOFF (AC-FT)	182800			110300			89570		
10 PERCENT EXCEEDS	737			490			335		
50 PERCENT EXCEEDS	89			73			38		
90 PERCENT EXCEEDS	14			18			5.0		

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 mile 74.4.

DRAINAGE AREA.--84 mi², approximately.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	15	13	e10	9.0	13	30	88	100	11	15	13
2	46	15	14	e9.0	9.3	13	30	91	92	10	11	10
3	42	13	26	e7.8	9.9	13	30	88	78	10	10	9.0
4	39	14	27	e8.6	9.0	14	33	87	71	10	10	7.9
5	38	15	15	e10	9.2	14	34	99	68	9.4	11	7.3
6	36	16	14	e10	8.5	14	35	91	61	8.7	19	6.4
7	34	14	14	e10	8.6	15	37	82	56	8.1	12	6.1
8	33	16	14	e10	11	18	39	77	51	7.8	10	5.6
9	32	15	13	e9.6	9.6	11	42	73	47	6.8	8.3	5.9
10	30	16	13	e8.8	9.3	7.6	51	71	43	6.2	14	5.6
11	28	17	14	e9.6	9.4	11	58	67	38	7.1	17	5.5
12	27	18	14	e10	9.4	15	70	61	34	6.8	12	5.3
13	25	16	13	e11	10	15	76	54	30	6.8	13	4.9
14	25	18	12	e10	11	16	87	50	27	6.4	12	4.7
15	24	20	17	e9.2	9.4	17	121	49	25	6.3	11	10
16	23	21	16	e7.4	11	18	118	49	24	6.2	9.6	11
17	23	21	14	e8.4	8.3	19	101	47	22	8.9	9.1	7.6
18	21	22	13	e9.0	9.2	20	88	44	21	7.9	8.5	6.3
19	20	21	14	e9.8	10	19	87	44	20	8.7	8.0	6.2
20	19	18	14	e8.4	11	18	86	41	20	8.6	8.3	9.4
21	19	21	14	e9.0	11	19	73	43	26	20	8.3	7.4
22	18	20	14	8.1	10	19	60	54	20	13	7.1	7.2
23	18	13	13	11	11	19	56	55	18	14	6.9	6.2
24	18	16	e13	10	11	19	51	87	18	13	11	5.8
25	16	18	e12	8.1	11	19	51	108	18	9.1	15	5.4
26	15	17	e11	8.2	11	20	57	114	16	12	11	5.0
27	15	16	e10	8.2	11	21	61	179	14	14	9.6	4.8
28	14	16	e9.6	8.4	11	24	65	147	14	10	8.4	4.8
29	14	15	e11	8.9	12	24	74	117	14	10	7.5	4.7
30	14	13	e11	8.7	---	25	83	131	12	13	8.2	4.9
31	12	---	e10	9.0	---	28	---	111	---	12	17	---
TOTAL	789	506	432.6	284.2	291.1	537.6	1884	2499	1098	301.8	338.8	203.9
MEAN	25.5	16.9	14.0	9.17	10.0	17.3	62.8	80.6	36.6	9.74	10.9	6.80
MAX	51	22	27	11	12	28	121	179	100	20	19	13
MIN	12	13	9.6	7.4	8.3	7.6	30	41	12	6.2	6.9	4.7
AC-FT	1560	1000	858	564	577	1070	3740	4960	2180	599	672	404
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 1992, BY WATER YEAR (WY)

	MEAN	12.8	9.33	6.55	5.40	5.75	11.9	35.8	53.2	21.3	16.1	31.5	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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1926 - 1992	
ANNUAL TOTAL	21890.3		9166.0		19.3	
ANNUAL MEAN	60.0		25.0		80.7	
HIGHEST ANNUAL MEAN					2.53	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	1580	Sep 10	179	May 27	1580	Sep 10 1991
LOWEST DAILY MEAN	4.5	Jul 11	4.7	Sep 14	.20	Sep 21 1956
ANNUAL SEVEN-DAY MINIMUM	7.0	Jan 22	5.1	Sep 24	.21	Oct 8 1956
INSTANTANEOUS PEAK FLOW			192	May 27	7120	Aug 2 1966
INSTANTANEOUS PEAK STAGE			2.73	May 27	9.70	Aug 2 1966
INSTANTANEOUS LOW FLOW			.75	Dec 2	.20	Sep 21 1956
ANNUAL RUNOFF (AC-FT)	43420		18180		14000	
10 PERCENT EXCEEDS	139		66		43	
50 PERCENT EXCEEDS	18		14		7.4	
90 PERCENT EXCEEDS	7.8		7.7		2.7	

RIO GRANDE BASIN

08382500 GALLINAS RIVER NEAR COLONIAS, NM

LOCATION.--Lat 35°10'55", long 104°53'59", 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, and Preston Beck Grants, on right bank 2.3 mi south of San Miguel-Guadalupe County line, 2.4 mi upstream from mouth, 5.8 mi northwest of Colonias, and 9.0 mi east of Dilia. Mouth at Pecos River mile 789.2.

DRAINAGE AREA.--610 mi², approximately.

PERIOD OF RECORD.--January 1951 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,940 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 7,000 acres, 1959 determination, upstream from station. Several observations of water temperature were made during the year. No flow at times most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of about June 1, 1937, reached a stage of about 27.2 ft; discharge determined as 26,700 ft³/s by slope-area measurement made in 1951. A flood of about the same magnitude occurred Sept. 29-30, 1904.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	7.9	9.5	18	38	13	10	6.5	87	4.0	134	43
2	16	8.5	9.3	18	32	13	14	4.8	75	3.4	43	29
3	15	9.2	8.5	17	30	13	18	5.5	62	2.6	50	15
4	13	9.2	7.9	15	26	13	15	6.3	47	2.2	25	11
5	12	9.3	8.6	19	25	12	15	6.7	39	1.9	11	7.8
6	12	8.8	9.4	18	21	12	13	7.5	34	1.5	7.0	6.6
7	11	8.6	8.4	21	19	12	12	8.7	33	1.3	7.0	5.6
8	11	8.6	7.8	28	17	12	12	10	31	1.0	6.2	5.1
9	10	7.5	7.8	24	16	12	12	8.5	83	.56	4.0	3.9
10	10	7.4	8.2	20	16	11	12	8.2	39	.46	2.8	2.9
11	10	7.5	9.9	19	16	11	12	7.5	38	.44	1.9	2.4
12	9.1	8.3	12	20	15	12	11	8.6	37	.25	2.1	2.1
13	9.0	8.4	12	19	15	12	11	12	35	.23	1.5	1.7
14	8.9	11	13	18	16	11	11	9.5	e20	.55	1.1	1.6
15	8.3	9.6	15	17	16	11	11	9.7	e11	.24	.86	1.6
16	8.2	11	14	14	16	11	10	9.8	e17	.06	5.6	2.2
17	7.5	13	13	13	14	11	9.8	9.9	e28	7.2	4.1	5.3
18	6.8	17	15	17	13	10	8.0	11	e19	2.8	6.0	11
19	6.5	16	17	17	12	11	8.2	8.2	10	.31	3.4	6.4
20	6.3	16	17	13	12	12	8.5	7.9	12	7.5	507	4.4
21	6.4	16	19	16	12	11	8.6	8.8	42	9.4	57	3.7
22	6.3	13	25	16	13	11	8.8	9.8	54	3.7	25	2.8
23	6.3	11	25	16	13	11	7.6	12	21	13	16	2.2
24	6.6	11	26	15	13	11	5.9	20	12	15	26	1.8
25	6.7	10	23	14	13	9.9	4.3	28	79	16	34	1.4
26	6.6	9.7	22	15	13	9.9	4.4	24	246	16	15	1.1
27	7.1	9.6	20	17	13	9.5	5.7	24	21	25	14	.82
28	6.9	9.8	20	20	13	9.3	6.2	25	10	12	11	.60
29	6.6	9.5	19	23	13	8.5	7.8	26	7.1	12	8.5	.49
30	6.1	9.4	18	29	---	11	7.2	28	4.5	9.9	7.3	.45
31	6.9	---	18	40	---	10	---	77	---	12	6.3	---
TOTAL	280.1	311.8	458.3	586	501	347.1	300.0	449.4	1253.6	182.50	1043.66	183.96
MEAN	9.04	10.4	14.8	18.9	17.3	11.2	10.0	14.5	41.8	5.89	33.7	6.13
MAX	17	17	26	40	38	13	18	77	246	25	507	43
MIN	6.1	7.4	7.8	13	12	8.5	4.3	4.8	4.5	.06	.86	.45
AC-FT	556	618	909	1160	994	688	595	891	2490	362	2070	365
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1992, BY WATER YEAR (WY)

MEAN	13.1	4.95	2.99	2.66	3.55	4.45	17.4	17.8	17.2	40.7	63.2	23.7
MAX	166	50.0	18.3	18.9	58.9	48.2	269	261	91.4	222	268	178
(WY)	1958	1987	1987	1992	1987	1958	1958	1973	1986	1988	1991	1972
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.09	.000
(WY)	1953	1952	1952	1951	1951	1951	1951	1952	1951	1964	1983	1951

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1951 - 1992

ANNUAL TOTAL	18567.47	5897.42	
ANNUAL MEAN	50.9	16.1	18.0
HIGHEST ANNUAL MEAN			66.6
LOWEST ANNUAL MEAN			.85
HIGHEST DAILY MEAN	895	Aug 7	2640
LOWEST DAILY MEAN	.57	Jun 28	.00
ANNUAL SEVEN-DAY MINIMUM	2.1	Jul 7	.32
INSTANTANEOUS PEAK FLOW			1720
INSTANTANEOUS PEAK STAGE			7.70
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (AC-FT)	36830	11700	13020
10 PERCENT EXCEEDS	144	26	25
50 PERCENT EXCEEDS	9.6	11	.00
90 PERCENT EXCEEDS	4.1	2.8	.00

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 775.8.

DRAINAGE AREA.--2,330 mi², approximately.

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 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	24	7.2	14	23	8.3	89	459	689	38	336	22
2	89	26	6.5	12	16	8.3	90	497	629	16	90	48
3	72	30	6.8	11	16	8.7	94	484	572	13	66	13
4	71	49	6.8	11	17	8.5	85	500	510	16	125	10
5	70	32	6.8	11	13	8.3	72	536	482	14	27	10
6	61	25	23	17	10	8.3	69	482	467	13	25	11
7	45	28	29	19	8.9	8.7	72	459	522	14	23	10
8	30	28	23	19	8.3	9.0	78	458	472	14	23	10
9	24	22	11	19	7.7	8.9	112	467	487	14	22	9.9
10	19	20	8.9	11	7.5	10	147	407	417	14	22	10
11	22	26	9.8	12	7.5	16	214	392	374	14	23	9.8
12	16	31	22	13	7.9	13	284	350	356	12	23	10
13	13	35	17	16	8.3	12	308	403	342	12	23	9.9
14	13	38	13	13	8.2	11	375	376	328	12	23	10
15	13	31	12	11	8.3	11	609	331	280	12	22	9.9
16	13	52	9.1	11	7.9	13	652	355	242	12	23	10
17	13	62	7.5	10	7.8	25	544	338	225	123	22	11
18	13	58	9.5	10	8.3	43	463	507	262	26	24	10
19	13	55	23	10	8.3	57	456	349	204	6.7	17	10
20	13	54	27	10	8.3	65	385	334	172	6.1	465	10
21	13	43	36	11	8.5	59	306	433	352	6.1	358	10
22	13	34	46	11	8.3	53	261	468	278	145	203	8.6
23	13	28	43	11	8.8	57	221	502	183	19	71	9.4
24	13	35	32	11	8.9	62	216	624	144	6.8	50	11
25	13	25	24	10	8.6	69	200	690	125	6.8	50	12
26	13	8.5	21	11	8.3	66	220	714	358	6.8	24	7.3
27	13	22	19	10	8.7	55	251	662	234	61	38	7.4
28	12	25	20	10	8.6	64	280	675	134	18	14	6.1
29	13	20	16	11	8.3	80	316	630	94	14	12	6.0
30	13	9.0	12	12	---	87	398	641	60	13	12	6.0
31	13	---	12	20	---	87	---	728	---	13	16	---
TOTAL	841	975.5	559.9	388	285.2	1092.0	7867	15251	9994	711.3	2272	338.3
MEAN	27.1	32.5	18.1	12.5	9.83	35.2	262	492	333	22.9	73.3	11.3
MAX	89	62	46	20	23	87	652	728	689	145	465	48
MIN	12	8.5	6.5	10	7.5	8.3	69	331	60	6.1	12	6.0
AC-FT	1670	1930	1110	770	566	2170	15600	30250	19820	1410	4510	671

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1992, BY WATER YEAR (WY)

	24.2	18.1	6.45	4.02	5.91	28.8	107	287	233	99.6	176	98.6
MEAN	24.2	18.1	6.45	4.02	5.91	28.8	107	287	233	99.6	176	98.6
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1976 - 1992

ANNUAL TOTAL	90694.45	40575.2	
ANNUAL MEAN	248	111	94.9
HIGHEST ANNUAL MEAN			245
LOWEST ANNUAL MEAN			13.3
HIGHEST DAILY MEAN	2650	728	2960
LOWEST DAILY MEAN	.22	6.0	.00
ANNUAL SEVEN-DAY MINIMUM	.30	7.9	.00
INSTANTANEOUS PEAK FLOW		1180	a12400
INSTANTANEOUS PEAK STAGE		7.48	10.36
INSTANTANEOUS LOW FLOW		6.0	
ANNUAL RUNOFF (AC-FT)	179900	80480	68750
10 PERCENT EXCEEDS	894	422	300
50 PERCENT EXCEEDS	32	22	6.1
90 PERCENT EXCEEDS	.47	8.3	.00

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	39	33	34	57	33	109	436	675	58	305	49
2	91	47	31	33	53	34	115	458	629	44	112	86
3	84	44	31	33	52	34	115	473	573	45	78	50
4	64	63	30	30	52	32	107	487	512	61	142	39
5	66	53	29	30	51	31	104	538	482	42	43	38
6	67	49	37	39	47	36	105	506	468	38	39	37
7	e80	49	51	44	48	37	97	461	551	41	36	38
8	e70	50	49	41	44	38	96	436	496	39	38	40
9	e60	47	41	45	37	39	122	443	517	38	37	45
10	e50	43	39	36	36	40	157	422	461	37	43	43
11	e40	49	38	35	35	48	212	418	407	40	38	43
12	e30	50	46	38	36	46	261	381	372	40	36	43
13	e25	53	43	39	35	44	277	398	349	40	38	44
14	e25	55	39	39	34	42	321	428	327	42	39	45
15	e25	49	38	35	34	41	465	343	294	43	34	41
16	e25	65	33	34	34	43	491	364	258	37	33	44
17	e30	77	30	34	35	50	449	350	224	126	34	38
18	e30	77	31	33	32	58	398	421	201	82	45	40
19	e30	77	39	32	34	66	408	368	191	36	34	42
20	e30	75	47	33	34	77	385	363	178	38	635	41
21	e30	69	53	32	34	75	345	386	265	37	379	39
22	e32	60	61	39	34	68	291	495	286	133	238	37
23	32	52	60	40	33	73	253	501	195	60	119	35
24	32	57	52	37	33	73	233	604	157	39	83	36
25	33	51	48	38	33	70	221	636	141	40	85	38
26	33	37	43	38	33	70	234	708	378	39	61	38
27	33	42	40	45	34	69	258	684	240	75	79	37
28	33	48	41	43	34	76	283	679	137	46	52	38
29	33	47	39	45	33	86	335	640	104	35	39	37
30	34	37	30	49	---	96	395	631	74	35	39	36
31	36	---	31	53	---	103	---	701	---	37	38	---
TOTAL	1372	1611	1253	1176	1121	1728	7642	15159	10142	1543	3051	1257
MEAN	44.3	53.7	40.4	37.9	38.7	55.7	255	489	338	49.8	98.4	41.9
MAX	91	77	61	53	57	103	491	708	675	133	635	86
MIN	25	37	29	30	32	31	96	343	74	35	33	35
AC-FT	2720	3200	2490	2330	2220	3430	15160	30070	20120	3060	6050	2490
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1992, BY WATER YEAR (WY)

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	41.4	34.8	23.1	20.8	22.3	43.6	119	304	260	127	220	131					
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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1976 - 1992
ANNUAL TOTAL	98515	47055	
ANNUAL MEAN	270	129	117
HIGHEST ANNUAL MEAN			265
LOWEST ANNUAL MEAN			26.1
HIGHEST DAILY MEAN	3210	708	3210
LOWEST DAILY MEAN	17	25	4.5
ANNUAL SEVEN-DAY MINIMUM	18	27	4.7
INSTANTANEOUS PEAK FLOW		2150	a12300
INSTANTANEOUS PEAK STAGE		9.43	b17.70
INSTANTANEOUS LOW FLOW		25	2.9
ANNUAL RUNOFF (AC-FT)	195400	93330	84640
10 PERCENT EXCEEDS	889	419	325
50 PERCENT EXCEEDS	57	46	27
90 PERCENT EXCEEDS	18	33	8.3

a-From rating curve extended above 1,500 ft³/s, on basis of slope-area measurement of peak flow.
b-From floodmarks.

RIO GRANDE BASIN

08382650 PECOS RIVER ABOVE SANTA ROSA LAKE, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976, 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (000061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (000095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (000400)	TEMPER- ATURE AIR (DEG C) (000020)	TEMPER- ATURE WATER (DEG C) (000010)	TUR- BID- ITY (NTU) (000076)	BARO- METRIC PRES- SURE (MM OF HG) (000025)	OXYGEN, DIS- SOLVED (MG/L) (000300)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (000340)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
NOV 20...	1350	78	600	8.1	10.0	7.0	10	645	10.2	<10	K4	K16
JAN 22...	1155	36	800	7.8	9.0	6.0	0.30	640	10.3	--	K7	<5
JUN 02...	1215	624	220	7.4	22.0	14.0	82	650	9.8	--	>600	320
AUG 04...	1200	93	290	7.7	33.0	23.0	730	736	7.2	--	>600	>2500
29...	1230	37	780	8.2	28.0	20.0	7.0	652	8.2	<10	>600	K92
DATE	HARD- NESS TOTAL (MG/L AS CACO3) (000900)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (000904)	CALCIUM DIS- SOLVED (MG/L AS CA) (000915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (000925)	SODIUM, DIS- SOLVED (MG/L AS NA) (000930)	SODIUM AD- SORP- TION RATIO (000931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (000935)	BICAR- BONATE WATER DIS IT MG/L AS HCO3 (000453)	CAR- BONATE WATER DIS IT MG/L AS CO3 (000452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (000945)	
NOV 20...	300	150	99	13	16	0.4	1.3	185	0	152	200	
JAN 22...	390	240	130	17	12	0.3	1.3	188	0	154	290	
JUN 02...	110	33	36	4.0	5.0	0.2	0.80	90	0	74	34	
AUG 04...	160	82	55	6.4	5.9	0.2	1.9	100	0	82	88	
29...	420	270	140	16	11	0.2	1.6	181	0	148	260	
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (000940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (000950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (000955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (000620)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (000618)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (000615)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (000613)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (000630)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (000631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (000610)
NOV 20...	10	0.30	8.1	413	440	--	0.100	<0.010	0.010	0.110	0.110	0.010
JAN 22...	7.3	0.30	10	586	561	0.210	--	0.010	<0.010	0.220	0.220	0.020
JUN 02...	2.6	0.20	7.5	140	135	0.024	--	0.050	<0.010	0.074	0.078	0.070
AUG 04...	3.3	0.20	8.9	225	221	--	--	<0.010	<0.010	0.270	0.260	0.020
29...	4.7	0.20	12	563	537	--	--	<0.010	<0.010	0.200	0.210	0.020

RIO GRANDE BASIN

08382650 PECOS RIVER ABOVE SANTA ROSA LAKE, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	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)
NOV 20...	0.010	--	<0.20	--	0.020	0.020	0.020	0.010	1.7	<10	91	<3
JAN 22...	0.020	--	<0.20	--	<0.010	<0.010	0.010	0.010	--	--	--	--
JUN 02...	0.010	--	<0.20	--	0.090	0.030	0.020	0.020	--	60	46	<3
AUG 04...	0.030	1.4	1.4	1.7	0.580	0.070	0.030	0.060	--	350	150	<3
29...	0.030	--	<0.20	--	0.020	<0.010	0.020	0.020	0.8	30	150	<3

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)	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 20...	5	13	3	<10	2	<1	<1.0	840	<6	44	9.3	68
JAN 22...	--	--	--	--	--	--	--	--	--	8	0.78	51
JUN 02...	46	5	3	<10	<1	<1	<1.0	210	<6	439	740	62
AUG 04...	190	5	11	<10	<1	<1	<1.0	460	<6	2150	540	98
29...	3	12	18	<10	<1	<1	<1.0	1300	<6	137	14	34

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 at Pecos River mile 763.0.

DRAINAGE AREA.--65.6 mi².

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 1991 TO SEPTEMBER 1992
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	7.4	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.17	.00	.00
6	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.03	.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	.00	.00
22	.00	.00	.01	.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	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.01	.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
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.04	0.04	0.00	0.00	0.00	0.00	0.00	7.57	0.00	0.00
MEAN	.000	.000	.001	.001	.000	.000	.000	.000	.000	.24	.000	.000
MAX	.00	.00	.02	.03	.00	.00	.00	.00	.00	7.4	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.08	.08	.00	.00	.00	.00	.00	15	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1992, BY WATER YEAR (WY)

	MEAN	.40	.24	.001	.003	.21	.004	.085	.28	2.99	3.32	6.46	1.94
MAX	5.20	2.26	.007	.028	3.74	.045	1.57	2.54	20.4	33.7	48.1	18.1	
(WY)	1986	1979	1979	1987	1987	1987	1985	1987	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1973 - 1992
ANNUAL TOTAL	367.69	7.65	
ANNUAL MEAN	1.01	.021	1.37
HIGHEST ANNUAL MEAN			5.41
LOWEST ANNUAL MEAN			.021
HIGHEST DAILY MEAN	72 Aug 19	7.4 Jul 4	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		120 Jul 4	a3900 Jul 24 1976
INSTANTANEOUS PEAK STAGE		3.63 Jul 4	9.30 Jul 24 1976
ANNUAL RUNOFF (AC-FT)	729	15	994
10 PERCENT EXCEEDS	.15	.00	.04
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

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, 447,100 acre-ft, from capacity table effective August 1980, between elevations 4,630.0 ft, invert of outlet structure, and 4,797.0 ft, crest of spillway. 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, 99,180 acre-ft, Aug. 21, elevation, 4,745.58 ft; minimum, 92,410 acre-ft, Oct. 30, elevation, 4,743.70 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92870	92520	92900	92590	94000	95250	97450	97310	97490	97060	97970	97380
2	92870	92550	92970	92550	94040	95280	97450	97060	97530	96980	98220	97450
3	92690	92730	93040	92550	94110	95280	97490	96840	97420	96910	98330	97420
4	92550	92900	93040	92620	94140	95320	97450	96800	97160	97160	98080	97270
5	92550	92940	93080	92660	94210	95360	97420	97090	97020	97270	97530	97160
6	92620	93040	93150	92830	94290	95430	97350	97160	97060	97270	97420	97060
7	92690	93040	93150	92830	94360	95430	97200	97130	97270	97270	97380	97020
8	92760	93150	93150	92830	94390	95430	97130	97130	97350	97270	97350	96950
9	92800	93260	93150	92900	94460	95470	97130	97310	97490	97240	97310	96910
10	92830	93260	93150	92970	94570	95500	97160	97450	97530	97200	97450	96760
11	92870	93360	93080	93010	94570	95540	97350	97570	97450	97160	97380	96690
12	92900	93540	92900	93010	94640	95610	97570	97450	97530	97060	97240	96690
13	92940	93610	92900	93040	94680	95720	97490	97310	97450	96980	97240	96580
14	92900	93720	92870	93040	94680	95790	97240	97640	97200	96980	97240	96550
15	92900	93820	92870	93040	94680	95860	97450	97490	97130	96950	97240	96840
16	92900	94000	92900	93110	94680	95860	97640	97380	97160	96950	97160	97060
17	92900	94110	92900	93150	94680	95830	97490	97200	97310	97060	97350	97060
18	92830	94250	93010	93190	94780	95860	97240	97240	97450	97160	97310	96910
19	92800	94430	93040	93040	94750	95930	97060	97200	97530	97200	97310	97020
20	92800	94180	93010	93080	94750	96040	96980	97240	97450	97240	98810	96980
21	92800	93290	93260	93150	94780	96180	96980	97530	97600	97240	99180	96980
22	92830	92760	93220	93190	94890	96260	96910	97930	97670	97490	99000	97020
23	92800	92730	93360	93190	94890	96330	96910	98300	97420	97530	98550	96980
24	92760	92760	93260	93220	94960	96510	96950	98660	97240	97450	98040	96950
25	92760	92760	93010	93220	94930	96620	96950	99030	97160	97380	97600	97020
26	92800	92830	92870	93500	95000	96730	96980	98960	97530	97240	97450	97060
27	92690	92870	92800	93540	95110	96910	97160	98150	97860	97310	97600	97060
28	92550	92900	92730	93610	95180	97020	97350	97530	97860	97310	97570	97060
29	92550	92940	92660	93680	95210	97160	97490	97350	97710	97450	97490	97060
30	92410	92900	92660	93820	---	97310	97490	97310	97350	97420	97420	97060
31	92480	---	92590	93890	---	97380	---	97420	---	97450	97420	---
MAX	92940	94430	93360	93890	95210	97380	97640	99030	97860	97530	99180	97450
MIN	92410	92520	92590	92550	94000	95250	96910	96800	97020	96910	97160	96550
(†)	4743.72	4743.84	4743.75	4744.12	4744.49	4745.09	4745.12	4745.10	4745.08	4745.11	4745.10	4745.00
(††)	-390	+420	-310	+1300	+1320	+2170	+110	-70	-70	+100	-30	-360
CAL YR 1991	MAX 98630	MIN 2080		(††)	+67980							
WTR YR 1992	MAX 99180	MIN 92410		(††)	+4190							

(†) 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	1.9	7.1	33	.36	.08	70	509	631	108	e.05	23
2	130	1.8	7.1	27	.37	.04	85	556	634	29	e.10	23
3	134	1.5	7.2	18	.33	.05	113	560	635	15	32	23
4	73	1.5	13	18	.28	.06	113	521	637	14	206	24
5	26	1.6	16	18	e.26	.07	112	383	521	14	267	24
6	28	1.7	24	9.8	e.26	.08	113	438	399	15	83	25
7	15	1.6	35	5.0	e.20	.08	112	439	400	15	15	26
8	6.5	1.5	35	5.0	e.21	.08	111	377	402	11	15	10
9	6.6	1.1	35	5.0	e.21	.08	128	286	404	9.1	16	.28
10	6.6	1.1	36	5.2	e.21	.07	123	287	418	9.0	16	.28
11	6.6	1.1	71	5.4	e.20	.04	113	377	442	8.4	38	.31
12	6.6	1.1	93	5.6	e.20	.05	113	440	400	8.2	39	.33
13	6.3	1.1	60	5.8	e.09	.08	363	357	373	8.2	8.3	.37
14	6.2	1.1	32	6.2	.06	.08	457	314	374	9.6	.00	.38
15	5.8	1.2	32	e5.8	.10	.08	391	368	278	.17	.00	.43
16	5.4	1.3	24	e7.0	.05	.08	531	404	153	4.8	.00	.44
17	5.1	1.0	12	6.6	.09	.08	610	403	100	5.3	.00	.45
18	4.7	1.0	6.6	6.6	.09	.08	526	405	129	.04	.00	.43
19	4.4	.83	48	6.7	.16	.08	520	364	174	.04	.00	.45
20	4.3	240	66	6.7	.19	.08	449	281	174	e.05	.01	.48
21	4.2	503	50	6.9	.19	.04	351	242	174	e.10	188	.57
22	4.3	257	51	6.5	.13	.04	310	327	242	e.10	304	.51
23	4.3	47	50	6.1	.09	.04	225	442	306	35	305	2.0
24	4.0	48	137	6.4	.12	.04	173	443	228	57	306	1.7
25	4.0	28	195	6.3	.15	.07	173	441	151	58	248	1.5
26	4.0	11	129	6.2	.14	.08	174	781	131	58	129	1.2
27	3.9	7.2	71	6.3	.04	.17	175	1110	133	23	50	1.2
28	2.9	7.1	73	3.2	.06	e.10	175	948	135	.04	43	.48
29	2.8	7.1	74	.30	.08	e.10	251	744	181	.05	21	.11
30	2.4	7.1	53	.39	---	e.10	381	633	219	.01	21	.17
31	2.2	---	33	.41	---	35	---	633	---	e.05	22	---
TOTAL	637.1	1187.53	1576.0	255.40	4.92	37.20	7541	14813	9578	515.25	2372.46	192.07
MEAN	20.6	39.6	50.8	8.24	.17	1.20	251	478	319	16.6	76.5	6.40
MAX	134	503	195	33	.37	35	610	1110	637	108	306	26
MIN	2.2	.83	6.6	.30	.04	.04	70	242	100	.01	.00	.11
AC-FT	1260	2360	3130	507	9.8	74	14960	29380	19000	1020	4710	381

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1992, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	11.1	17.0	11.7	8.04	12.0	17.3	97.2	296	184	174	183	155	
MAX	71.3	145	59.0	28.9	97.7	197	655	672	509	561	519	649	
(WY)	1987	1987	1987	1986	1987	1987	1989	1989	1987	1983	1991	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1980 - 1992
ANNUAL TOTAL	52928.76	38709.93	
ANNUAL MEAN	145	106	
HIGHEST ANNUAL MEAN			102
LOWEST ANNUAL MEAN			185
HIGHEST DAILY MEAN	1910	1110	35.8
LOWEST DAILY MEAN	.00	.00	2090
ANNUAL SEVEN-DAY MINIMUM	.06	.00	Jun 14 1980
ANNUAL RUNOFF (AC-FT)	105000	76780	
10 PERCENT EXCEEDS	740	400	
50 PERCENT EXCEEDS	2.5	9.0	
90 PERCENT EXCEEDS	.08	.08	1.7

RIO GRANDE BASIN

08383000 PECOS RIVER AT SANTA ROSA, NM

LOCATION.--Lat 34°56'36", long 104°41'55", in NW¼SE¼ sec.3, T.8 N., R.21 E., Guadalupe County, Hydrologic Unit 13060001, on left bank, 0.4 mi downstream from bridge on Interstate Highway 40, 0.6 mi upstream from bridge on Parker Street in Santa Rosa, 1.9 mi upstream from El Rito Creek, and at mile 748.4.

DRAINAGE AREA.--2,650 mi², approximately (contributing area).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1903 to December 1905 (gage heights only), January to December 1906, February 1910 to July 1911, September 1912 to December 1924, March to May 1927, July 1927, January 1928 to September 1992 (discontinued). Monthly discharge only for some periods, published in WSP 1312. Figures of daily discharge for Apr. 5-20, May 4-7, 11, Aug. 13, 16-18, 24, Sept. 7-9, 11, 13, 19, 21, 23, 25, 27, Oct. 1-31, Nov. 3, 4, 9, 11, 20, 22, 1910, and Feb. 1 to Mar. 31, June 1 to July 31, 1911, published in WSP 358, are unreliable and should not be used.

REVISED RECORDS.--WSP 1512: 1913-15. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder and partial concrete control. Elevation of gage is 4,537.56 ft above National Geodetic Vertical Datum of 1929. For history of changes prior to Sept. 13, 1967, see WSP 2123.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Flow regulated by Santa Rosa Lake (station 08382810) 8.8 mi upstream since April 1980. Diversions for irrigation of about 12,000 acres, 1959 determination, upstream from station. National Weather Service telemeter at station.

AVERAGE DISCHARGE.--63 years (water years 1906, 1913, 1914, 1928-79), 135 ft³/s, 97,810 acre-ft/yr, prior to completion of Santa Rosa Dam.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	6.5	16	44	5.8	5.5	86	508	630	157	3.3	e46
2	118	5.8	14	42	5.8	5.8	94	565	623	49	2.9	e46
3	118	5.8	14	29	5.8	6.3	127	565	625	22	7.7	e46
4	90	5.8	16	27	5.8	5.7	128	540	631	88	159	e47
5	27	5.4	28	27	5.5	5.7	128	413	558	27	275	e48
6	27	5.1	29	28	5.1	6.2	128	461	414	20	142	e49
7	25	5.1	50	13	5.1	5.8	128	465	415	18	32	e50
8	11	5.1	50	12	5.1	5.8	128	426	414	17	29	e40
9	9.1	5.1	50	12	5.1	6.1	136	323	411	12	30	e19
10	8.5	5.1	50	12	5.1	6.5	141	323	422	11	31	e10
11	8.1	5.1	62	12	5.1	6.3	128	388	454	11	45	e4.9
12	8.1	5.9	97	12	5.1	4.9	128	470	416	11	78	e5.0
13	8.1	6.5	83	12	5.5	5.1	296	415	379	11	70	e5.0
14	8.1	6.5	47	12	5.0	5.1	456	342	379	15	21	e5.0
15	7.4	5.9	46	12	4.5	5.1	384	390	311	7.2	9.4	e5.0
16	7.3	9.6	41	11	5.1	5.2	472	433	185	3.7	6.9	e5.2
17	6.6	7.3	27	11	4.5	5.0	603	433	133	9.8	6.8	e5.2
18	6.5	6.4	15	13	4.5	4.5	503	433	130	7.7	7.3	e5.2
19	6.5	7.3	29	12	4.5	4.7	505	404	187	3.4	16	e5.2
20	6.5	145	83	12	4.6	4.5	454	325	194	2.6	16	e5.2
21	6.5	483	61	12	4.5	4.6	361	267	188	2.6	144	e5.2
22	6.5	330	62	12	4.9	4.5	313	316	230	2.4	317	e5.8
23	6.5	80	61	12	5.1	4.7	255	450	301	12	323	e7.0
24	6.5	76	97	12	5.1	4.6	191	445	261	62	328	e6.6
25	6.5	60	176	11	5.1	4.5	191	446	188	66	279	e6.0
26	6.5	31	145	11	5.1	4.5	190	671	160	68	154	e5.4
27	6.5	18	78	11	5.1	7.6	187	1070	156	54	e60	e5.4
28	6.5	17	78	11	5.1	5.3	187	955	158	7.9	e50	e5.0
29	6.5	16	78	9.1	5.1	4.9	243	750	182	5.0	e43	e4.2
30	6.5	16	69	6.6	---	5.1	383	623	225	3.6	e43	e4.0
31	6.5	---	44	6.2	---	9.6	---	632	---	3.2	e44	---
TOTAL	666.3	1387.3	1796	478.9	147.7	169.7	7654	15247	9960	790.1	2773.3	506.5
MEAN	21.5	46.2	57.9	15.4	5.09	5.47	255	492	332	25.5	89.5	16.9
MAX	118	483	176	44	5.8	9.6	603	1070	631	157	328	50
MIN	6.5	5.1	14	6.2	4.5	4.5	86	267	130	2.4	2.9	4.0
AC-FT	1320	2750	3560	950	293	337	15180	30240	19760	1570	5500	1000
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1992, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	16.2	22.4	18.0	13.3	15.6	22.3	101	302	183	186	187	166	
MAX	66.5	152	73.7	31.1	91.2	202	645	685	445	592	496	657	
(WY)	1987	1987	1987	1987	1987	1987	1989	1989	1987	1983	1991	1988	
MIN	4.15	4.12	4.02	4.89	4.51	4.64	4.63	6.01	7.23	4.51	7.34	5.31	
(WY)	1991	1984	1983	1983	1982	1983	1983	1982	1984	1989	1989	1989	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1980 - 1992
ANNUAL TOTAL	53585.7	41576.8	
ANNUAL MEAN	147	114	103
HIGHEST ANNUAL MEAN			182
LOWEST ANNUAL MEAN			41.9
HIGHEST DAILY MEAN	1900	1070	1920
LOWEST DAILY MEAN	3.5	2.4	2.0
ANNUAL SEVEN-DAY MINIMUM	4.1	4.6	2.3
ANNUAL RUNOFF (AC-FT)	106300	82470	74770
10 PERCENT EXCEEDS	748	415	369
50 PERCENT EXCEEDS	6.6	16	7.3
90 PERCENT EXCEEDS	4.5	5.0	4.5

RIO GRANDE BASIN

08383000 PECOS RIVER AT SANTA ROSA, NM -- Continued

WATER-QUALITY RECORDS

LOCATION.--Samples collected 0.6 mi downstream from discharge station.

PERIOD OF RECORD.--Water years 1905-07, 1959 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	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 19...	1600	7.8	2050	8.1	5.0	7.0	652	10.1	1400	460	53	
MAR 17...	1800	4.9	2530	8.0	21.0	16.0	639	8.5	1800	580	74	
JUN 01...	1530	639	345	8.1	11.0	14.0	657	9.1	160	52	6.2	
AUG 04...	0840	72	640	7.6	24.0	19.0	--	8.4	320	100	17	
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 CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
NOV 19...	47	0.6	2.3	84	1200	66	0.80	12	1890	80	<10	
MAR 17...	55	0.6	2.2	121	1500	73	0.70	14	2370	120	<10	
JUN 01...	6.8	0.2	1.6	103	67	4.8	0.20	8.1	208	30	9	
AUG 04...	13	0.3	2.3	118	210	8.8	0.30	11	433	40	21	

RIO GRANDE BASIN

08383500 PECOS RIVER NEAR PUERTO DE LUNA, NM

(Surveillance network station)

LOCATION.--Lat 34°43'48", long 104°31'28", in NE¼SE¼NW¼ 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 719.5.

DRAINAGE AREA.--3,970 mi², 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. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	88	93	137	89	84	86	465	745	240	77	193
2	201	86	111	136	90	85	141	535	717	145	80	99
3	203	90	97	131	89	85	158	548	723	99	79	94
4	200	88	91	124	88	89	182	557	734	89	84	92
5	152	88	95	123	87	86	183	494	735	212	355	90
6	106	86	102	118	86	84	182	394	498	90	376	92
7	103	83	106	120	86	85	181	460	462	87	185	92
8	100	85	120	103	86	86	179	465	460	85	113	94
9	87	86	120	100	86	86	179	353	456	79	104	90
10	82	84	121	98	83	87	191	312	453	74	204	71
11	77	86	127	100	85	87	188	308	570	76	194	68
12	78	92	171	102	84	88	183	435	683	74	116	66
13	76	90	176	102	84	88	182	445	443	71	129	65
14	78	89	146	100	85	88	556	330	430	70	103	67
15	77	90	122	98	84	88	493	336	428	73	82	340
16	75	123	121	108	83	88	494	405	282	68	75	197
17	73	106	115	96	80	86	728	818	187	69	73	95
18	72	93	107	97	81	86	651	515	145	94	77	80
19	73	99	105	99	82	86	650	415	170	88	76	80
20	75	101	141	99	81	86	634	346	200	70	90	83
21	78	382	161	98	79	84	509	274	214	69	86	81
22	80	571	160	97	79	78	440	270	204	622	304	78
23	76	231	155	96	80	73	420	459	302	131	424	68
24	79	153	144	96	82	73	287	499	347	89	437	64
25	79	150	250	95	82	73	270	713	219	133	433	62
26	80	131	308	95	83	72	259	477	198	135	328	63
27	80	110	221	94	83	68	256	1110	185	138	219	67
28	80	99	181	93	83	69	253	1140	177	119	140	65
29	78	95	178	93	82	66	253	904	178	83	130	64
30	79	92	174	92	---	70	373	731	225	91	96	65
31	92	---	156	90	---	75	---	724	---	77	120	---
TOTAL	3079	3847	4475	3230	2432	2529	9741	16237	11770	3640	5389	2825
MEAN	99.3	128	144	104	83.9	81.6	325	524	392	117	174	94.2
MAX	210	571	308	137	90	89	728	1140	745	622	437	340
MIN	72	83	91	90	79	66	86	270	145	68	73	62
AC-FT	6110	7630	8880	6410	4820	5020	19320	32210	23350	7220	10690	5600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1992, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	105	101	98.2	94.2	92.8	95.8	166	367	264	282	294	293	
MAX	225	232	147	123	167	265	685	744	576	725	597	948	
(WY)	1986	1987	1987	1987	1987	1987	1989	1989	1987	1983	1991	1988	
MIN	73.1	79.5	73.5	82.9	76.7	73.5	67.9	64.0	66.1	72.9	117	66.4	
(WY)	1988	1983	1991	1982	1984	1989	1984	1982	1991	1989	1989	1990	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1980 - 1992

ANNUAL TOTAL	82755	69194											
ANNUAL MEAN	227	189											
HIGHEST ANNUAL MEAN										188			
LOWEST ANNUAL MEAN										265			1987
HIGHEST DAILY MEAN	2220	Sep 14								122			1981
LOWEST DAILY MEAN	48	Jun 28								3510			Oct 17 1985
ANNUAL SEVEN-DAY MINIMUM	53	Jun 22								39			Aug 4 1987
INSTANTANEOUS PEAK FLOW										64			Jul 29 1987
INSTANTANEOUS PEAK STAGE										7320			Sep 1 1942
INSTANTANEOUS LOW FLOW										6.43			Sep 1 1942
ANNUAL RUNOFF (AC-FT)	164100	137200								11			Jan 31 1951
10 PERCENT EXCEEDS	790	460								474			
50 PERCENT EXCEEDS	83	99								85			
90 PERCENT EXCEEDS	65	75								67			

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 1991 TO SEPTEMBER 1992

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 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)	
NOV 22...	0900	582	860	8.8	6.0	5.5	655	10.4	18	K61	K160	
MAR 16...	1515	91	2640	7.3	18.0	24.0	649	8.5	<10	30	K2	
JUN 03...	0940	734	730	8.0	14.5	21.0	683	9.4	14	39	180	
AUG 30...	0915	95	2100	8.2	18.0	15.0	665	9.1	<10	>600	37	
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 22...	420	290	140	17	23	0.5	2.0	154	2	129		
MAR 16...	1600	1500	540	68	100	1	2.0	134	0	110		
JUN 03...	330	230	110	13	17	0.4	1.6	122	0	100		
AUG 30...	1200	1100	400	52	70	0.9	2.2	154	0	126		
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 CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	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 22...	290	34	0.40	10	595	0.068	0.020	<0.010	0.088	0.081	0.020	
MAR 16...	1400	150	0.80	12	2340	--	<0.010	<0.010	<0.050	<0.050	0.060	
JUN 03...	230	20	0.30	8.9	461	0.030	0.020	<0.010	0.050	0.053	0.020	
AUG 30...	1100	100	0.40	10	1810	--	<0.010	<0.010	<0.050	<0.050	0.050	
DATE		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	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)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)
NOV 22...	0.020	0.28	0.30	0.39	0.070	0.040	<0.010	5.3	<1	<1	30	
MAR 16...	0.060	--	<0.20	--	<0.010	<0.010	<0.010	0.5	--	--	120	
JUN 03...	0.020	--	<0.20	--	0.020	0.030	<0.010	3.5	--	--	30	
AUG 30...	0.040	--	<0.20	--	<0.010	<0.010	<0.010	1.6	1	<1	90	

08383500 PECOS RIVER NEAR PUERTO DE LUNA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)
NOV 22...	<1	<1.0	2	<1	5	1	9	3	<1	<0.10	<0.1
MAR 16...	--	--	--	--	--	--	10	--	--	--	--
JUN 03...	--	--	--	--	--	--	4	--	--	--	--
AUG 30...	<1	<1.0	<1	1	1	<1	<10	<1	<1	<0.10	<0.1

DATE	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)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01029)
NOV 22...	<1	<1	30	<3	<2.0	1.5	40	84	5	<1	2
AUG 30...	<1	<1	<10	<10	--	--	--	--	--	--	--

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- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 22...	<5	3	1600	<10	310	<0.01	<1	147	231	86
MAR 16...	--	--	--	--	--	--	--	9	2.2	45
JUN 03...	--	--	--	--	--	--	--	133	264	57
AUG 30...	--	--	--	--	--	--	--	52	13	86

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, 94,700 acre-ft, from capacity table dated January 1989, 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. No dead storage. 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, 64,040 acre-ft, Feb. 16-17, elevation, 4,267.30 ft; minimum, 22,130 acre-ft, Sept. 30, elevation, 4,251.58 ft.

RESERVOIR STORAGE (ACRE-Feet), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 08:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43570	41120	48460	56770	61920	59180	42620	43740	43820	43650	40360	38040
2	43340	41820	48760	57100	61920	57750	42560	43740	43540	43740	40120	37990
3	43120	42090	48760	57440	62270	56330	42590	43540	43510	43650	39900	37810
4	42950	42090	48760	57440	62270	54810	42730	43490	43600	43600	39720	37610
5	42620	42370	49060	57780	62270	53370	42900	43430	43630	43510	39450	37850
6	42230	42370	49060	57780	62620	51800	43010	43490	43710	43710	39530	37070
7	43340	42650	49370	58120	62620	50170	43200	43320	43490	43510	40040	36870
8	43180	42650	49680	58120	62970	48700	43290	43370	43400	43340	40060	36660
9	43220	42920	49680	58460	62970	47160	43460	43400	43400	43260	39880	36390
10	43290	42920	49990	58460	62970	45520	43600	43180	43540	43150	39720	36140
11	43290	42920	50300	58800	63330	44560	43710	42840	43630	43010	39640	35810
12	43200	43200	50180	58800	63330	44080	43880	42670	43680	42870	39610	35510
13	43010	43200	50920	59140	63680	43910	43820	42870	44080	42730	39380	35240
14	42980	43490	51240	59140	63680	43910	43820	42900	43800	42510	39270	35020
15	42920	43770	51550	59490	63680	43820	43970	42900	43680	42370	39160	34770
16	42730	44050	51870	59490	64040	43770	43970	42730	43650	42230	38880	34870
17	42650	44310	51870	59830	64040	43740	43990	42760	43710	42070	38800	34900
18	41850	44310	51870	59830	64040	43710	44220	43770	43650	41960	38560	34650
19	42370	44310	52190	59830	63680	43510	43990	43880	43680	42010	38300	34330
20	42290	44910	52500	60180	63680	43430	43970	43740	43630	41980	38040	34140
21	42150	44910	52830	60180	63680	43340	43940	43650	43970	41790	37840	33880
22	42040	45780	53150	60520	63680	43290	43710	43630	43880	41550	37550	33660
23	41960	46660	53790	60520	63680	43180	43570	43490	43800	42070	37630	33400
24	41870	47250	54120	60870	63680	43150	43680	43910	43910	41930	37910	32870
25	41820	47550	54450	60870	63680	43060	43570	43970	44190	41740	38220	31330
26	41760	47850	54770	60870	63680	42980	43490	44620	44110	41600	38480	29130
27	41680	47850	55430	60870	63330	42980	43540	44340	43990	41440	38640	27050
28	41630	48150	55770	61220	62130	42840	43560	44390	43820	41300	38610	25220
29	41380	48150	56100	61220	60730	42810	43680	44620	43740	41140	38480	23450
30	41380	48460	56430	61570	---	42650	43740	44420	43740	40920	38380	22130
31	41300	---	56770	61570	---	42590	---	43910	---	40650	38120	---
MAX	43570	48460	56770	61570	64040	59180	44220	44620	44190	43740	40360	38040
MIN	41300	41120	48460	56770	60730	42590	42560	42670	43400	40650	37550	22130
(†)	3172.20	3174.00	3173.60	3174.80	3175.20	3172.60	3173.40	3178.10	3175.10	3173.10	3173.40	3173.40
(††)	-3050	+1040	-270	+140	+300	-1720	+450	+4490	-2600	-1370	+180	----

CAL YR 1991 MAX 56770 MIN 2600 (††) -270
WTR YR 1992 MAX 64040 MIN 22130 (††) -2410

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

(††) CHANGE IN CONTENTS, IN ACRE-Feet.

RIO GRANDE BASIN

08385000 FORT SUMNER MAIN CANAL NEAR FORT SUMNER, NM

LOCATION.--Lat 34°30'30", long 104°16'40", in SE¼SW¼SW¼ 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e94	33	.00	.00	.00	.24	94	96	71	95	90	88
2	e94	.00	.00	.00	.00	.02	94	96	33	93	90	88
3	e94	.00	.00	.00	.00	.47	94	94	.00	93	88	88
4	e94	.00	.00	.00	.00	1.5	94	94	.00	94	89	88
5	e94	.00	.00	.00	.00	1.3	94	92	.00	94	89	88
6	e94	.00	.00	.00	.00	1.3	94	93	.00	93	89	89
7	e92	.00	.00	.00	.00	1.4	94	97	42	93	89	89
8	e92	.00	.00	.00	.00	1.3	94	97	92	93	89	89
9	e92	.00	.00	.00	.00	.69	94	99	87	93	89	89
10	e93	.00	.00	.00	.00	.95	92	96	85	93	89	89
11	e93	.00	.00	.00	.00	.90	93	95	85	92	85	90
12	e93	.00	.00	.00	.00	.85	95	94	86	92	82	90
13	e93	.00	.00	.00	.00	.87	100	94	88	91	91	90
14	e92	.00	.00	.00	.00	.94	100	94	86	90	92	90
15	e92	.00	.00	.00	.00	.94	94	98	84	89	84	90
16	e90	.00	.00	.00	.00	.94	95	97	82	89	81	90
17	e90	.00	.00	.00	.00	.94	95	96	88	88	86	89
18	e90	.00	.00	.00	.00	.93	93	97	91	86	91	89
19	e90	.00	.00	.00	.00	.93	93	98	91	87	91	90
20	e88	.00	.00	.00	.00	.94	93	97	92	85	90	90
21	e88	.00	.00	.00	.00	.96	92	96	94	94	91	89
22	87	.00	.00	.00	.00	.96	93	94	93	93	91	89
23	88	.00	.00	.00	.00	.96	94	97	93	86	91	89
24	88	.00	.00	.00	.00	.95	94	64	92	83	91	91
25	90	.00	.00	.00	.00	.95	94	.09	93	84	91	91
26	90	.00	.00	.00	.00	.94	93	.13	95	84	90	77
27	91	.00	.00	.00	.00	.95	92	.20	93	83	89	76
28	91	.00	.00	.00	.03	.94	92	60	94	84	88	75
29	89	.00	.00	.00	.56	.94	92	76	94	84	87	73
30	89	.00	.00	.00	---	.91	93	68	96	84	87	80
31	90	---	.00	.00	---	.94	---	72	---	88	86	---
TOTAL	2825	33.00	0.00	0.00	0.59	2129.53	2818	2541.42	2220.00	2770	2746	2613
MEAN	91.1	1.10	.000	.000	.020	68.7	93.9	82.0	74.0	89.4	88.6	87.1
MAX	94	33	.00	.00	.56	.96	100	99	96	95	92	91
MIN	87	.00	.00	.00	.00	.02	92	.09	.00	83	81	73
AC-FT	5600	65	.00	.00	1.2	4220	5590	5040	4400	5490	5450	5180

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1992, BY WATER YEAR (WY)

MEAN	66.1	.94	.47	8.51	4.45	52.8	74.2	77.6	84.1	80.1	78.2	71.9
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 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1939 - 1992

ANNUAL TOTAL	19947.81	20696.54	
ANNUAL MEAN	54.7	56.5	50.6
HIGHEST ANNUAL MEAN			59.7
LOWEST ANNUAL MEAN			25.3
HIGHEST DAILY MEAN	120	100	174
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
ANNUAL RUNOFF (AC-FT)	39570	41050	36640
10 PERCENT EXCEEDS	97	94	97
50 PERCENT EXCEEDS	85	88	70
90 PERCENT EXCEEDS	.00	.00	.00

RIO GRANDE BASIN

08386000 PECOS RIVER NEAR ACME, NM
(Surveillance network station)

LOCATION.--Lat 33°32'10", long 104°22'34", in SW¼ 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. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	222	85	36	52	37	529	78	129	1030	150	70	137
2	200	97	31	51	38	735	86	119	812	111	92	242
3	188	104	34	49	39	765	72	171	815	99	73	191
4	201	97	35	48	38	819	69	440	740	93	67	144
5	244	80	38	48	37	795	53	718	738	79	57	136
6	225	72	40	49	37	807	49	735	687	70	53	129
7	218	64	35	59	36	833	42	669	566	62	109	134
8	177	59	34	55	34	854	46	567	553	51	74	119
9	137	55	33	49	33	922	48	496	526	41	54	104
10	125	52	32	46	33	867	44	574	510	36	56	104
11	119	51	37	50	33	842	35	626	520	33	56	100
12	114	52	44	56	32	649	41	564	522	33	77	94
13	112	51	41	70	31	459	55	507	542	32	86	91
14	107	51	39	64	30	321	42	435	694	24	85	99
15	103	50	36	58	29	244	31	406	801	19	132	136
16	97	76	34	50	28	179	51	422	583	17	73	130
17	95	76	33	45	25	136	164	441	457	16	96	133
18	96	73	35	41	24	110	294	528	378	14	120	128
19	90	66	44	38	24	97	388	537	251	13	103	121
20	86	62	54	43	24	85	435	494	196	11	146	121
21	86	60	63	50	25	83	369	790	171	74	140	116
22	91	55	76	46	25	82	411	656	173	73	129	110
23	96	47	72	48	55	68	451	512	210	30	115	105
24	92	44	70	46	94	65	555	639	196	19	116	107
25	85	43	74	41	99	63	488	653	203	30	114	106
26	83	41	79	39	98	65	290	685	188	83	122	190
27	78	40	75	42	88	59	227	479	224	145	129	779
28	74	39	69	41	93	56	209	644	202	83	179	769
29	74	38	65	40	101	57	176	804	201	59	132	820
30	76	37	59	39	---	63	148	833	187	59	119	812
31	93	---	56	39	---	65	---	811	---	58	101	---
TOTAL	3884	1817	1503	1492	1320	11774	5447	17084	13876	1717	3075	6507
MEAN	125	60.6	48.5	48.1	45.5	380	182	551	463	55.4	99.2	217
MAX	244	104	79	70	101	922	555	833	1030	150	179	820
MIN	74	37	31	38	24	56	31	119	171	11	53	91
AC-FT	7700	3600	2980	2960	2620	23350	10800	33890	27520	3410	6100	12910

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1992, BY WATER YEAR (WY)

MEAN	141	55.3	26.5	26.0	25.3	164	217	291	301	322	252	310
MAX	2200	858	236	190	234	595	1217	2680	2186	1611	726	3527
(WY)	1942	1943	1942	1942	1987	1941	1942	1941	1941	1960	1941	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 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1938 - 1992

	ANNUAL TOTAL	80957.41	69496	
ANNUAL MEAN	222	190	178	
HIGHEST ANNUAL MEAN			964	1941
LOWEST ANNUAL MEAN			56.8	1964
HIGHEST DAILY MEAN	6340	Jul 15	1030	Jun 1
LOWEST DAILY MEAN	.00	Jun 27	11	Jul 20
ANNUAL SEVEN-DAY MINIMUM	.01	Jun 27	16	Jul 14
INSTANTANEOUS PEAK FLOW			1640	May 25
INSTANTANEOUS PEAK STAGE			5.92	May 25
INSTANTANEOUS LOW FLOW			9.0	Jul 20
ANNUAL RUNOFF (AC-FT)	160600		137800	129100
10 PERCENT EXCEEDS	709		596	670
50 PERCENT EXCEEDS	45		85	21
90 PERCENT EXCEEDS	8.1		35	.30

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.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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 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)
NOV 27...	1015	40	4320	8.3	10.0	3.5	675	12.3	31	--	--
MAR 24...	1000	66	3250	8.0	18.5	12.0	671	13.0	22	--	--
JUN 04...	0830	765	1390	8.0	22.0	17.0	690	8.6	27	--	--
SEP 01...	1445	121	1630	7.9	28.0	24.0	681	7.3	96	>600	>2500
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 27...	1600	1500	460	110	440	5	4.4	99	24	121	
MAR 24...	1300	1200	400	77	270	3	4.1	171	0	140	
JUN 04...	710	610	230	32	51	0.8	3.0	122	0	100	
SEP 01...	830	770	270	38	63	1	3.6	76	0	62	
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 TOTAL (MG/L AS N) (00620)	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 27...	1400	600	1.2	9.4	3100	0.180	0.020	<0.010	0.200	0.170	0.040
MAR 24...	1200	390	0.60	12	2440	0.150	0.020	<0.010	0.170	0.180	0.070
JUN 04...	570	68	0.60	9.7	1020	--	<0.010	<0.010	0.075	0.077	0.040
SEP 01...	860	89	0.40	9.2	1370	--	<0.010	<0.010	0.210	0.220	0.030
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	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)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)
NOV 27...	0.030	--	<0.20	--	<0.010	<0.010	<0.010	2.2	1	1	280
MAR 24...	0.040	--	<0.20	--	<0.010	0.030	<0.010	2.3	--	--	220
JUN 04...	0.040	--	<0.20	--	0.020	<0.010	0.020	7.1	--	--	80
SEP 01...	0.030	0.17	0.20	0.41	0.040	0.010	<0.010	28	7	2	120

RIO GRANDE BASIN

08386000 PECOS RIVER NEAR ACME, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)
NOV 27...	<1	<1.0	1	2	3	<1	<10	<1	<1	<0.10	<0.1
MAR 24...	--	--	--	--	--	--	<10	--	--	--	--
JUN 04...	--	--	--	--	--	--	5	--	--	--	--
SEP 01...	2	<1.0	43	<1	36	1	5	18	<1	0.10	<0.1
DATE	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)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01029)
NOV 27...	<1	<1	30	<10	<2.0	1.2	80	120	4	<1	2
SEP 01...	1	1	150	<3	--	--	--	--	--	--	--
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- SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	
NOV 27...	<5	3	2000	<10	180	<0.01	<1	26	2.8	90	
MAR 24...	--	--	--	--	--	--	--	80	14	95	
JUN 04...	--	--	--	--	--	--	--	1470	3030	59	
SEP 01...	--	--	--	--	--	--	--	3840	1260	99	

RIO GRANDE BASIN

08387000 RIO RUIDOSO AT HOLLYWOOD, NM

LOCATION.--Lat 33°19'36", long 105°37'38", in SE¼SE¼NE¼ 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 U.S. Highway 70, 0.7 mi downstream from Gavilan Canyon, 1.7 mi downstream from Carrizo Creek, and at mile 24.4.

DRAINAGE AREA.--120 mi², approximately.

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. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	16	17	24	32	41	68	119	129	19	29	19
2	23	16	19	23	34	49	76	115	112	18	26	18
3	22	16	17	24	34	59	70	105	96	18	24	18
4	21	16	20	24	33	54	68	94	87	18	22	16
5	20	16	19	24	32	52	67	84	78	18	26	16
6	19	16	18	29	31	48	68	78	74	27	22	16
7	19	15	18	33	31	47	77	77	69	19	19	15
8	19	15	17	28	31	49	95	74	65	18	19	15
9	19	15	16	28	31	48	110	70	58	18	18	14
10	18	15	16	27	31	47	117	67	53	17	17	14
11	18	16	24	29	34	47	129	60	49	17	19	15
12	17	16	25	30	34	46	130	56	47	17	30	15
13	17	14	22	28	38	44	142	59	44	16	24	14
14	16	25	21	26	47	45	173	60	42	16	25	16
15	16	25	21	24	43	48	167	62	38	15	26	16
16	16	41	21	24	41	53	139	58	35	15	22	15
17	16	27	21	26	39	60	119	55	32	17	21	13
18	15	24	22	26	38	61	120	53	31	18	25	13
19	15	23	31	24	37	57	122	53	29	21	22	13
20	16	21	33	25	37	55	100	64	32	20	24	13
21	16	20	31	27	37	54	77	69	29	19	23	12
22	16	20	31	25	39	55	70	85	27	21	22	12
23	15	20	27	23	41	57	71	213	30	18	20	12
24	15	19	26	24	44	58	77	244	27	18	20	12
25	16	19	26	25	42	60	88	229	24	22	20	12
26	16	19	26	26	41	62	99	172	24	20	20	12
27	16	19	25	26	40	71	112	132	23	19	20	12
28	15	19	24	26	40	72	117	110	22	24	19	11
29	15	19	24	26	39	71	127	124	22	35	18	11
30	14	17	25	27	---	67	121	137	20	36	19	13
31	15	---	24	28	---	66	---	143	---	31	24	---
TOTAL	535	579	707	809	1071	1703	3116	3121	1448	625	685	423
MEAN	17.3	19.3	22.8	26.1	36.9	54.9	104	101	48.3	20.2	22.1	14.1
MAX	24	41	33	33	47	72	173	244	129	36	30	19
MIN	14	14	16	23	31	41	67	53	20	15	17	11
AC-FT	1060	1150	1400	1600	2120	3380	6180	6190	2870	1240	1360	839

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1992, BY WATER YEAR (WY)

	MEAN	26.7	19.6	27.3	19.8	25.4	39.0	51.9	42.9	23.5	21.7	45.8	31.6
MAX	80.8	69.0	130	61.5	58.6	91.2	104	101	52.3	49.9	162	63.4	
(WY)	1987	1987	1985	1985	1985	1985	1992	1992	1986	1986	1984	1988	
MIN	9.40	7.43	6.59	7.74	8.49	14.9	19.9	11.4	5.96	7.94	8.25	12.5	
(WY)	1982	1982	1982	1982	1990	1990	1984	1989	1982	1982	1983	1983	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1982 - 1992

ANNUAL TOTAL	13601	14822		
ANNUAL MEAN	37.3	40.5	31.3	
HIGHEST ANNUAL MEAN			49.7	1987
LOWEST ANNUAL MEAN			13.7	1982
HIGHEST DAILY MEAN	245	Aug 14	244	May 24
LOWEST DAILY MEAN	10	Jun 25	11	Sep 28
ANNUAL SEVEN-DAY MINIMUM	11	Jun 22	12	Sep 23
INSTANTANEOUS PEAK FLOW			285	May 24
INSTANTANEOUS PEAK STAGE			3.05	May 24
INSTANTANEOUS LOW FLOW			11	Sep 28
ANNUAL RUNOFF (AC-FT)	26980	29400	22670	
10 PERCENT EXCEEDS	72	86	66	
50 PERCENT EXCEEDS	28	25	19	
90 PERCENT EXCEEDS	15	15	8.6	

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 1991 TO SEPTEMBER 1992

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 DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREP-TOCOC CI, FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS TOTAL (MG/L AS CaCO3) (00900)
NOV 14...	0930	32	750	7.8	8.0	7.0	600	9.3	46	540	8200	320
MAR 25...	0830	58	675	7.4	2.5	5.0	687	11.4	14	22	K16	280
MAY 06...	0745	80	350	7.5	11.5	8.0	--	--	<10	K16	21	160
SEP 01...	0800	19	980	8.1	12.0	9.0	614	9.4	<10	90	330	450

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-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)
NOV 14...	90	22	36	0.9	2.9	129	240	37	0.20	8.7	515
MAR 25...	82	18	28	0.7	1.1	125	190	31	0.30	12	439
MAY 06...	46	10	16	0.6	0.80	70	110	18	0.30	10	255
SEP 01...	130	31	45	0.9	1.3	163	300	51	0.20	12	669

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
NOV 14...	0.150	0.030	<0.010	0.180	0.170	0.030	<0.010	0.97	1.0	1.2	0.230
MAR 25...	0.270	0.020	<0.010	0.290	0.270	0.020	0.030	--	<0.20	--	<0.010
MAY 06...	0.450	0.010	<0.010	0.460	0.460	0.010	0.020	--	<0.20	--	0.030
SEP 01...	--	<0.010	<0.010	0.100	0.110	0.020	0.020	--	<0.20	--	0.020

DATE	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)	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)
NOV 14...	0.080	0.020	9.5	20	14	<2.0	1.6	90	560	3	<1
MAR 25...	0.020	<0.010	2.8	20	10	--	--	--	--	--	--
MAY 06...	0.030	0.010	3.1	10	36	--	--	--	--	--	--
SEP 01...	0.010	<0.010	1.8	20	10	--	--	--	--	--	--

RIO GRANDE BASIN

08387000 RIO RUIDOSO AT HOLLYWOOD, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	CHROMIUM, RECOV. FM BOT- TOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT- TOM MATERIAL (UG/G) AS CO (01038)	COPPER, RECOV. FM BOT- TOM MATERIAL (UG/G) AS CU (01043)	IRON, RECOV. FM BOT- TOM MATERIAL (UG/G) AS FE (01170)	LEAD, RECOV. FM BOT- TOM MATERIAL (UG/G) AS PB (01052)	MANGANESE, RECOV. FM BOT- TOM MATERIAL (UG/G) (01053)	MERCURY, RECOV. FM BOT- TOM MATERIAL (UG/G) AS HG (71921)	ZINC, RECOV. FM BOT- TOM MATERIAL (UG/G) AS ZN (01093)	SEDIMENT, DISCHARGE, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SEDIMENT, SIEVE DIAM. % FINER THAN (70331)
NOV 14...	3	<5	5	6000	20	270	<0.01	40	132	12	82
MAR 25...	--	--	--	--	--	--	--	--	9	1.4	82
MAY 06...	--	--	--	--	--	--	--	--	14	3.0	68
SEP 01...	--	--	--	--	--	--	--	--	67	3.5	26

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 Ruidoso mile 11.3.

DRAINAGE AREA.--8.14 mi².

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	.93	.74	1.5	1.6	4.0	10	14	13	1.7	2.6	.70
2	2.8	.91	.74	1.4	1.7	5.0	11	13	11	1.6	2.0	.61
3	2.7	.85	.62	1.4	1.7	7.4	11	12	10	1.3	1.7	.55
4	2.5	.78	.59	1.4	2.0	7.6	10	10	9.0	1.4	1.5	.52
5	2.4	.79	.59	1.6	1.9	6.8	10	9.3	7.8	1.2	1.5	.54
6	2.3	.70	.55	e1.8	1.8	6.3	10	8.3	7.9	1.0	1.4	.50
7	2.2	.65	.55	e1.8	1.6	6.3	12	9.0	6.9	1.0	1.2	.44
8	2.1	.61	.53	e1.8	1.6	6.5	14	8.1	6.4	.91	1.1	.43
9	2.1	.55	.47	e1.7	1.6	6.6	15	6.9	5.8	.99	.92	.41
10	1.9	.55	.57	e1.7	1.8	6.3	15	7.0	5.3	.82	.80	.41
11	1.9	.67	2.6	e1.6	1.9	6.0	16	6.1	4.8	.81	.89	.41
12	2.0	.58	2.3	1.6	2.0	5.9	16	5.9	4.5	.72	2.1	.41
13	2.0	.51	1.3	1.7	2.6	5.7	18	6.3	4.3	.70	1.0	.40
14	1.9	1.1	1.0	1.5	4.1	5.7	19	5.9	4.1	.60	.99	.38
15	1.9	1.5	.94	1.3	3.5	6.2	21	5.8	3.7	.53	1.3	1.2
16	1.8	3.2	.94	1.3	3.2	7.8	18	5.2	3.5	.57	.92	.84
17	1.8	1.5	.99	1.2	2.8	9.4	16	4.8	3.2	.86	.87	.51
18	1.7	1.3	1.3	1.2	2.5	9.3	15	4.7	3.0	1.4	1.6	.41
19	1.6	1.1	4.1	1.1	2.5	8.0	16	4.8	2.9	2.7	1.4	.49
20	1.5	1.0	3.5	1.1	2.6	7.4	14	5.3	3.0	1.3	1.5	.51
21	1.4	1.1	2.5	1.1	2.7	7.3	11	5.6	2.8	.86	1.4	.41
22	1.2	1.1	2.1	1.1	2.9	7.7	9.5	9.5	2.6	.85	2.0	.37
23	1.0	1.1	2.0	1.2	3.2	8.3	9.6	32	2.5	.80	1.5	.36
24	.88	1.1	1.9	1.2	3.5	8.8	10	37	2.4	.82	1.4	.35
25	.80	1.1	1.9	1.3	3.5	8.9	12	38	2.4	1.2	1.3	.33
26	.74	1.0	1.8	1.4	3.5	9.0	13	26	2.3	1.2	1.3	.31
27	.77	.95	1.7	1.4	3.4	10	14	20	2.1	1.1	1.2	.28
28	.83	.85	1.6	1.5	3.4	11	16	16	2.0	1.2	1.0	.27
29	.74	.84	1.7	1.5	3.6	11	15	16	1.9	3.2	.94	.27
30	.74	.76	1.7	1.5	---	11	14	15	1.8	3.3	1.0	.27
31	1.0	---	1.6	1.6	---	10	---	15	---	3.4	.90	---
TOTAL	52.60	29.68	45.42	44.5	74.7	237.2	411.1	382.5	142.9	40.04	41.23	13.89
MEAN	1.70	.99	1.47	1.44	2.58	7.65	13.7	12.3	4.76	1.29	1.33	.46
MAX	3.4	3.2	4.1	1.8	4.1	11	21	38	13	3.4	2.6	1.2
MIN	.74	.51	.47	1.1	1.6	4.0	9.5	4.7	1.8	.53	.80	.27
AC-FT	104	59	90	88	148	470	815	759	283	79	82	28

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1992, 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
MEAN	2.81	2.40	2.37	1.88	2.56	4.22	5.93	4.56	1.58	2.00	4.04	4.33											
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	1.28	.38											
(WY)	1990	1990	1990	1990	1971	1971	1971	1971	1990	1971	1978	1970											

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1970 - 1992

ANNUAL TOTAL	1665.00	1515.76	
ANNUAL MEAN	4.56	4.14	3.17
HIGHEST ANNUAL MEAN			8.48
LOWEST ANNUAL MEAN			.39
HIGHEST DAILY MEAN	68	38	170
LOWEST DAILY MEAN	.33	.27	.00
ANNUAL SEVEN-DAY MINIMUM	.37	.30	.00
INSTANTANEOUS PEAK FLOW		45	a206
INSTANTANEOUS PEAK STAGE		6.17	b3.79
INSTANTANEOUS LOW FLOW		.25	.00
ANNUAL RUNOFF (AC-FT)	3300	3010	2300
10 PERCENT EXCEEDS	9.4	11	8.0
50 PERCENT EXCEEDS	3.2	1.8	1.4
90 PERCENT EXCEEDS	.60	.58	.32

a-From rating curve extended above 2.1 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 NE¼NE¼ 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 1991 TO SEPTEMBER 1992

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	.00	34	59	69	79	85	121	236	9.2	17	4.8
2	22	e10	34	58	69	77	93	107	217	6.0	18	1.3
3	18	e24	30	65	70	76	113	114	181	.34	17	.02
4	14	e20	33	66	72	89	103	111	158	.00	12	.00
5	12	e16	32	65	72	94	97	99	143	.00	6.8	.00
6	13	e10	35	64	68	98	92	97	118	.00	11	.00
7	12	e3.0	35	67	66	94	84	93	112	2.4	17	.00
8	7.6	e1.0	36	81	65	91	98	109	121	.02	12	.00
9	3.9	e.20	33	81	64	89	120	119	103	.00	8.5	.00
10	1.2	e.00	28	77	61	91	125	117	120	.00	8.3	.00
11	.67	e.00	32	84	58	89	135	97	120	.00	7.7	.00
12	.00	e.00	38	92	56	78	164	74	104	.00	5.2	.00
13	.04	e.00	41	101	56	78	181	56	94	.00	2.7	.00
14	.47	e.00	47	87	57	76	208	52	86	.00	1.8	.00
15	.21	e10	51	84	65	73	244	53	78	.00	2.8	.00
16	.02	25	49	81	69	71	257	56	66	.00	2.0	.00
17	.00	43	49	81	69	66	225	60	53	22	1.4	.43
18	.00	30	50	86	69	73	194	57	42	.17	2.2	.00
19	.00	20	53	85	68	67	202	52	39	.00	.82	.00
20	.00	20	61	80	73	58	206	43	37	.00	.77	.00
21	.00	21	71	84	74	66	159	50	32	.00	.33	.00
22	.00	22	71	85	74	60	129	61	39	.00	12	.00
23	.00	24	66	82	74	50	103	99	30	.00	17	.00
24	.00	24	62	78	86	50	81	330	27	.00	21	.00
25	.00	25	61	78	84	57	78	414	18	.00	9.1	.00
26	.00	24	62	78	79	60	133	405	79	22	2.8	.00
27	.00	20	62	78	78	49	161	317	96	63	2.7	.00
28	.00	24	60	75	80	83	169	255	28	54	1.8	.00
29	.00	20	59	72	83	102	173	240	23	25	1.5	.00
30	.00	16	60	70	---	99	146	255	14	15	2.1	.00
31	.00	---	60	69	---	88	---	246	---	16	5.3	---
TOTAL	130.11	452.20	1495	2393	2028	2371	4358	4359	2614	235.13	230.62	6.55
MEAN	4.20	15.1	48.2	77.2	69.9	76.5	145	141	87.1	7.58	7.44	.22
MAX	25	43	71	101	86	102	257	414	236	63	21	4.8
MIN	.00	.00	28	58	56	49	78	43	14	.00	.33	.00
AC-FT	258	897	2970	4750	4020	4700	8640	8650	5180	466	457	13
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1992, BY WATER YEAR (WY)

MEAN	28.3	17.4	19.7	16.8	13.0	13.8	27.9	30.6	25.2	28.9	41.3	54.4
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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1940 - 1992	
ANNUAL TOTAL	20059.05		20672.61		26.5	
ANNUAL MEAN	55.0		56.5		181	
HIGHEST ANNUAL MEAN					1.30	
LOWEST ANNUAL MEAN					8380	
HIGHEST DAILY MEAN	424	Aug 15	414	May 25	Sep 22 1941	
LOWEST DAILY MEAN	.00	Jun 3	.00	Oct 12	Oct 1 1939	
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 16	.00	Oct 17	Oct 1 1939	
INSTANTANEOUS PEAK FLOW			554	Jun 26	a54800 Jun 18 1965	
INSTANTANEOUS PEAK STAGE			10.71	Jun 26	b26.40 Jan 12 1965	
ANNUAL RUNOFF (AC-FT)	39790		41000		19190	
10 PERCENT EXCEEDS	118		119		68	
50 PERCENT EXCEEDS	45		50		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

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.

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 southwest 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. 22E., at left end of Rocky Dam on Rocky Arroyo, and 14 mi southwest of Roswell.

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, 1,204 acre-ft, May 26, elevation, 3,988.74 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 1991 TO SEPTEMBER 1992
NO CONTENTS AT 2400 HOURS DURING YEAR EXCEPT:

RIO HONDO RESERVOIR

DATE	ELEVATION	CONTENTS	DATE	ELEVATION	CONTENTS
May 24	3982.68	343	June 1	3979.74	130
25	3987.09	914	2	3979.45	116
26	3988.74	1204			
27	3988.71	1199			
28	3987.67	1012			
29	3986.18	773			
30	3984.01	483			
31	3980.55	176			

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. No flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	.00	22	46	59	62	67	e110	216	18	5.1	.00
2	13	2.2	29	45	61	62	70	e95	174	17	7.4	.00
3	7.2	17	22	48	62	61	80	e100	182	17	5.9	.00
4	8.3	19	22	51	63	60	76	e100	154	16	3.9	.00
5	6.8	13	22	51	61	68	72	e90	144	15	.22	.00
6	7.6	7.1	23	49	59	75	70	e88	123	14	.00	.00
7	7.2	.71	22	50	58	71	64	e85	124	14	5.7	.00
8	4.5	.00	24	61	57	69	70	e100	127	9.2	3.3	.00
9	.44	.00	22	59	56	71	84	e110	113	.00	.36	.00
10	.05	.00	17	59	54	72	99	e107	92	.00	.00	.00
11	e.00	.00	21	63	52	71	116	e85	86	.00	.00	.00
12	e.00	.00	25	67	51	64	144	e65	79	.00	.00	.00
13	e.00	.00	28	74	52	62	159	51	71	.00	.00	.00
14	e.00	.00	31	67	54	60	180	44	68	.00	.00	.00
15	e.00	.00	35	65	62	57	210	46	62	.00	.00	.00
16	e.00	8.0	35	65	63	57	226	45	52	.00	.00	.00
17	e.00	24	35	62	61	52	197	50	39	1.1	.00	.00
18	e.00	19	36	68	61	57	171	47	28	.53	.00	.00
19	e.00	5.9	39	68	60	58	177	43	25	.10	.00	.00
20	e.00	8.1	44	65	61	50	187	35	24	.00	.00	.00
21	e.00	10	54	67	62	53	148	39	21	.00	.00	.00
22	.00	6.2	54	67	61	50	123	42	23	.00	.00	.00
23	.00	7.8	51	66	60	41	108	64	20	.00	3.2	.00
24	.00	14	49	65	68	41	100	64	18	.00	9.8	.00
25	.00	18	48	64	69	46	93	.00	17	.00	3.6	.00
26	.00	17	50	65	66	50	129	53	16	.63	.04	.00
27	.00	11	48	62	65	54	151	94	85	36	.00	.00
28	.00	14	47	62	65	61	156	143	21	50	.00	.00
29	.00	15	46	61	65	74	152	181	19	21	.00	.00
30	.00	7.3	47	59	---	73	133	248	18	6.3	.00	.00
31	.00	---	46	58	---	69	---	277	---	3.8	.00	---
TOTAL	72.09	244.31	1094	1879	1748	1871	3812	2701.00	2241	239.66	48.52	0.00
MEAN	2.33	8.14	35.3	60.6	60.3	60.4	127	87.1	74.7	7.73	1.57	.000
MAX	17	24	54	74	69	75	226	277	216	50	9.8	.00
MIN	.00	.00	17	45	51	41	64	.00	16	.00	.00	.00
AC-FT	143	485	2170	3730	3470	3710	7560	5360	4450	475	96	.00
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1992, 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
MEAN	16.3	12.6	15.0	16.4	14.8	15.9	23.7	18.1	9.68	8.30	27.2	29.1																	
MAX	151	122	118	128	82.9	122	176	127	74.7	52.3	137	116																	
(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
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1964	1964	1964	1964	1964	1964	1964	1964	1967	1971	1974	1975	1973																

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1964 - 1992

	1991 CALENDAR YEAR	1992 WATER YEAR	WATER YEARS 1964 - 1992
ANNUAL TOTAL	12882.30	15950.58	
ANNUAL MEAN	35.3	43.6	17.3
HIGHEST ANNUAL MEAN			85.6
LOWEST ANNUAL MEAN			.24
HIGHEST DAILY MEAN	235	277	459
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		300	659
INSTANTANEOUS PEAK STAGE		3.41	4.91
ANNUAL RUNOFF (AC-FT)	25550	31640	12510
10 PERCENT EXCEEDS	86	100	63
50 PERCENT EXCEEDS	23	36	.00
90 PERCENT EXCEEDS	.00	.00	.00

RIO GRANDE BASIN

08393500 RIO HONDO AT ROSWELL, NM

LOCATION.--Lat 33°22'19", long 104°32'42", in NE¼SE¼ sec.7, T.11 S., R.24 E., Chaves County, Hydrologic Unit 13060008, on left bank, 0.3 mi upstream from bridge on Sunset Ave. in Roswell, 6.3 mi downstream from Rocky Arroyo and 11.7 mi upstream from mouth. Mouth at Pecos River mile 566.0.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	.00	e9.0	e38	42	46	49	111	213	.00	.00	.00
2	.00	.00	e19	e40	43	45	52	107	164	.00	.00	.00
3	.00	e4.0	e11	e40	45	46	62	110	179	.00	.00	.00
4	.00	e6.0	e11	e42	46	44	66	107	150	.00	.00	.00
5	.00	e4.0	e11	e44	46	52	62	92	146	.00	.00	.00
6	.00	e1.0	e12	e44	44	57	58	68	126	.00	.00	.00
7	.00	.00	e11	e46	42	55	55	70	126	.00	.00	.00
8	.00	.00	e13	e47	42	51	52	73	132	.00	.00	.00
9	.00	.00	e11	e48	40	46	67	78	123	.00	.00	.00
10	.00	.00	e8.0	e48	39	44	80	82	107	.00	.00	.00
11	.00	.00	e12	e48	36	42	79	77	103	.00	.00	.00
12	.00	.00	e14	e49	34	37	88	64	92	.00	.00	.00
13	.00	.00	e18	e49	33	36	114	55	82	.00	.00	.00
14	.00	.00	e22	e49	34	33	123	45	81	.00	.00	.00
15	.00	.00	e25	39	39	31	142	48	77	.00	.00	.00
16	.00	.00	e25	59	44	29	162	43	57	.00	.00	.00
17	.00	5.8	e25	45	44	26	151	58	28	.00	.00	.00
18	.00	5.5	e26	50	14	29	131	90	11	.00	.00	.00
19	.00	.15	e25	23	19	36	129	89	8.2	.00	.00	.00
20	.00	.00	e27	9.8	40	26	146	80	5.1	.00	.00	.00
21	.00	.00	e27	6.4	41	28	118	82	e2.0	.00	.00	.00
22	.00	.00	e28	5.7	41	25	99	82	e.50	.00	.00	.00
23	.00	.00	e28	3.3	41	19	87	103	.00	.00	.00	.00
24	.00	.00	e29	.88	47	19	82	128	.00	.00	.00	.00
25	.00	.29	e29	.53	52	19	75	3.9	.00	.00	.00	.00
26	.00	.15	e31	.32	49	26	96	46	.00	.00	.00	.00
27	.00	.31	e32	.09	48	30	114	133	56	e3.0	.00	.00
28	.00	.41	e33	26	46	37	120	155	e5.0	88	.00	.00
29	.00	e.45	e34	45	47	54	121	186	e2.0	23	.00	.00
30	.00	e.20	e36	44	---	52	120	206	e.50	e3.0	.00	.00
31	.00	---	e38	43	---	53	---	235	---	e1.0	.00	---
TOTAL	12.00	28.26	680.0	1033.02	1178	1173	2900	2906.9	2076.30	118.00	0.00	0.00
MEAN	.39	.94	21.9	33.3	40.6	37.8	96.7	93.8	69.2	3.81	.000	.000
MAX	12	6.0	38	59	52	57	162	235	213	88	.00	.00
MIN	.00	.00	8.0	.09	14	19	49	3.9	.00	.00	.00	.00
AC-FT	24	56	1350	2050	2340	2330	5750	5770	4120	234	.00	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1992, BY WATER YEAR (WY)

	MEAN	24.4	14.1	26.7	26.6	23.4	22.1	28.6	24.9	13.8	15.1	33.5	27.0
MAX	132	107	114	113	79.9	123	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 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1981 - 1992

ANNUAL TOTAL	8800.88	12105.48	
ANNUAL MEAN	24.1	33.1	24.2
HIGHEST ANNUAL MEAN			74.5
LOWEST ANNUAL MEAN			2.46
HIGHEST DAILY MEAN	275	Jul 18	235
LOWEST DAILY MEAN	.00	Jan 1	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00
INSTANTANEOUS PEAK FLOW			243
INSTANTANEOUS PEAK STAGE			5.68
ANNUAL RUNOFF (AC-FT)	17460	24010	a378
10 PERCENT EXCEEDS	73	97	b6.54
50 PERCENT EXCEEDS	.14	14	17520
90 PERCENT EXCEEDS	.00	.00	84

a-From rating curve extended above 360 ft³/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 good. Flow regulated by Lake Sumner (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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	348	113	103	152	163	209	115	248	1050	190	95	89
2	273	135	104	146	155	634	112	229	1180	185	97	63
3	239	133	103	144	155	674	123	206	998	161	106	111
4	205	147	112	143	154	713	130	193	939	141	113	142
5	190	150	109	144	153	720	124	267	841	139	92	110
6	244	144	110	144	153	694	120	490	798	127	77	98
7	248	126	114	147	149	678	100	504	813	112	59	95
8	232	118	114	160	146	700	94	497	912	86	53	85
9	213	111	112	164	144	735	84	421	916	74	96	84
10	185	112	106	168	140	759	90	399	674	55	74	75
11	180	109	115	170	137	747	98	434	530	49	41	65
12	178	107	116	178	132	748	104	480	488	42	38	69
13	162	105	147	196	128	517	97	425	479	48	36	74
14	158	106	136	220	127	356	122	351	468	43	59	73
15	154	105	132	231	124	284	169	339	460	38	96	70
16	143	117	135	214	122	243	158	292	511	34	94	84
17	139	161	132	205	124	206	158	289	556	34	96	106
18	132	163	132	195	122	185	182	319	402	50	74	94
19	129	160	136	189	119	149	325	380	351	38	93	97
20	131	151	152	190	115	131	520	362	299	29	99	100
21	126	136	180	188	114	127	544	381	220	23	98	100
22	125	130	164	187	115	130	528	657	183	18	121	92
23	127	123	207	189	118	130	543	755	157	35	108	86
24	135	119	192	183	134	127	548	607	154	65	100	80
25	134	114	181	181	168	118	510	752	177	47	77	72
26	130	112	181	180	205	105	394	773	203	31	76	71
27	124	111	205	174	211	108	332	768	234	26	78	128
28	124	108	202	171	210	106	290	635	208	95	81	650
29	112	104	188	180	208	103	283	882	223	133	91	695
30	100	101	168	183	---	104	280	1040	194	100	114	747
31	110	---	160	173	---	103	---	1060	---	73	102	---
TOTAL	5230	3731	4448	5489	4245	11343	7277	15435	15618	2321	2634	4505
MEAN	169	124	143	177	146	366	243	498	521	74.9	85.0	150
MAX	348	163	207	231	211	759	548	1060	1180	190	121	747
MIN	100	101	103	143	114	103	84	193	154	18	36	63
AC-FT	10370	7400	8820	10890	8420	22500	14430	30620	30980	4600	5220	8940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1992, BY WATER YEAR (WY)

	MEAN	248	123	96.2	94.3	83.0	176	233	326	315	341	264	385
MAX	3701	983	546	451	446	682	1308	3673	2436	1521	913	5407	1941
(WY)	1942	1942	1942	1942	1942	1941	1942	1941	1941	1960	1941	1941	1941
MIN	3.89	32.0	29.9	34.5	26.6	16.6	7.35	11.9	4.78	1.02	.42	1.30	1964
(WY)	1965	1968	1967	1965	1965	1967	1967	1975	1977	1954	1964	1964	1964

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1938 - 1992

ANNUAL TOTAL	101358.1	82276	224	1314	1941
ANNUAL MEAN	278	225	62.2	62.2	1964
HIGHEST ANNUAL MEAN					
LOWEST ANNUAL MEAN					
HIGHEST DAILY MEAN	4850	Jul 17	1180	Jun 2	39800
LOWEST DAILY MEAN	3.7	Jul 5	18	Jul 22	b.00
ANNUAL SEVEN-DAY MINIMUM	4.6	Jun 26	32	Jul 16	.10
INSTANTANEOUS PEAK FLOW			1280	Jun 2	a49600
INSTANTANEOUS PEAK STAGE			6.64	Jun 2	21.90
INSTANTANEOUS LOW FLOW			14	Jul 23	
ANNUAL RUNOFF (AC-FT)	201000	163200	162500		
10 PERCENT EXCEEDS	705	545	658		
50 PERCENT EXCEEDS	112	142	67		
90 PERCENT EXCEEDS	22	75	13		

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 1953, 1954, 1962, 1964.

RIO GRANDE BASIN

08396500 PECOS RIVER NEAR ARTESIA, NM

(Surveillance program station)

LOCATION.--Lat 32°50'27", long 104°19'23", in NW¼NW¼ sec.18, T.17 S., R.27 E., Eddy County, Hydrologic Unit 13060007, on left bank 250 ft upstream from bridge on U.S. Highway 82, 4.3 mi east of Artesia, 7.0 mi upstream from Rio Penasco, 17 mi upstream from McMillan Dam, and at mile 503.9.

DRAINAGE AREA.--15,300 mi², approximately (contributing area).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1905 to June 1909, August 1909 to current year. Monthly discharge only for some periods, published in WSP 1312 and 1712. Records for Aug. 22-31, 1934, and October 1936 to April 1937, published in WSP 763 and 828, respectively, are not reliable and should not be used. Prior to February 1936, published as "near Dayton."

REVISED RECORDS.--WSP 1312 and 1512: 1913, 1915, 1917-18(M), 1920, 1923, 1931-36. WSP 1712: 1906(M), 1908-11(M), 1919, 1921-23(M), 1929, 1931-32(M), 1935-36(M), 1937, 1939(M), 1941(M). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Elevation of gage is 3,291.92 ft above National Geodetic Vertical Datum of 1929 (U.S. Bureau of Reclamation bench mark). See WSP 1923 or 2123 for history of changes prior to Apr. 5, 1941. Apr. 5, 1941 to Apr. 2, 1981, water-stage recorder at site 250 ft downstream at same datum.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Considerable flow regulation by Lake Summer (station 08384000) since August 1937, and by Two Rivers Reservoir (station 08390600) since July 1963. Diversions and ground-water withdrawals for irrigation of about 154,000 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.--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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	364	113	103	181	173	197	109	e290	e1100	189	73	111
2	320	125	104	172	163	446	113	e280	e1150	e185	82	96
3	264	132	104	168	161	667	113	e270	e1040	e178	85	92
4	234	136	105	167	160	729	125	e260	e970	e158	94	156
5	205	151	113	166	159	829	119	e270	e920	e148	84	134
6	219	152	110	167	159	806	122	e500	e860	e140	76	117
7	259	143	111	166	157	835	104	e505	e820	e125	66	113
8	236	128	114	170	153	887	95	e500	e900	e108	54	105
9	221	120	114	172	150	863	88	e495	865	e92	62	99
10	194	116	109	173	147	902	84	e480	786	e80	85	96
11	178	113	110	177	145	907	93	e450	654	e70	59	85
12	177	111	116	179	142	797	97	e430	579	e62	44	82
13	169	110	126	195	139	651	100	e500	546	e54	44	86
14	158	109	138	206	134	511	93	e420	511	e56	44	89
15	156	110	129	236	133	361	136	e400	513	52	77	85
16	146	118	131	230	130	e270	144	e380	514	47	85	93
17	140	132	134	213	128	e210	135	e345	576	45	98	111
18	134	169	133	206	131	e182	146	e345	507	45	81	107
19	130	156	137	192	131	e150	229	e370	417	59	78	106
20	131	157	142	195	130	e130	372	e400	382	45	101	108
21	129	146	177	195	126	e122	521	e390	307	39	98	112
22	127	135	202	192	125	e122	473	e620	241	34	110	106
23	125	128	245	189	125	e119	502	e750	207	30	120	99
24	128	125	237	186	135	e119	590	e720	204	54	109	95
25	137	120	221	182	145	126	567	e760	203	e65	97	91
26	134	117	215	182	208	114	492	e790	210	e51	86	85
27	130	114	230	181	211	107	e420	e790	259	42	93	85
28	124	112	231	174	209	106	e360	e700	220	42	96	484
29	123	108	219	173	202	104	e320	e820	228	106	101	663
30	109	103	198	191	---	101	e300	e1000	208	103	127	767
31	108	---	190	183	---	104	---	e1070	---	78	124	---
TOTAL	5409	3809	4748	5759	4411	12574	7162	16300	16897	2582	2633	4658
MEAN	174	127	153	186	152	406	239	526	563	83.3	84.9	155
MAX	364	169	245	236	211	907	590	1070	1150	189	127	767
MIN	108	103	103	166	125	101	84	260	203	30	44	82
AC-FT	10730	7560	9420	11420	8750	24940	14210	32330	33520	5120	5220	9240

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1992, BY WATER YEAR (WY)

MEAN	254	135	108	106	94.0	184	233	372	375	340	256	384
MAX	4203	1240	614	499	504	768	1292	3834	3495	1453	880	5704
(WY)	1942	1942	1942	1942	1942	1941	1942	1941	1937	1960	1941	1941
MIN	2.26	31.5	33.6	34.6	28.5	21.7	10.7	15.8	5.42	.77	.065	.27
(WY)	1965	1968	1967	1965	1972	1981	1967	1975	1977	1954	1964	1964

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1937 - 1992

ANNUAL TOTAL	97691.5		86942				
ANNUAL MEAN	268		238				
HIGHEST ANNUAL MEAN						237	
LOWEST ANNUAL MEAN						1378	1941
HIGHEST DAILY MEAN	3900	Jul 18	1150	Jun 2		64.8	1964
LOWEST DAILY MEAN	3.5	Jun 30	30	Jul 23		44300	Sep 25 1941
ANNUAL SEVEN-DAY MINIMUM	4.1	Jun 25	42	Jul 17		.00	Aug 14 1946
INSTANTANEOUS PEAK FLOW			1250	Jun 2		.00	Aug 14 1946
INSTANTANEOUS PEAK STAGE						a51500	May 30 1937
INSTANTANEOUS LOW FLOW			30	Jul 23		b14.70	May 30 1937
ANNUAL RUNOFF (AC-FT)	193800		172400			172000	
10 PERCENT EXCEEDS	749		577			654	
50 PERCENT EXCEEDS	114		143			74	
90 PERCENT EXCEEDS	25		85			14	

a-From a slope-area measurement made at a point 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.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1937 to current year.

WATER TEMPERATURE: April 1949 to current year.

SUSPENDED-SEDIMENT DISCHARGE: January 1949 to current year.

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.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 28,800 microsiemens, June 24, 1977; minimum daily, 111 microsiemens, Aug. 31, 1982.

WATER TEMPERATURE: Maximum daily, 36.0°C, July 27, 1966, July 25, 1969; minimum daily, 0.0°C on many days during winter months of most years.

SEDIMENT CONCENTRATION: Maximum daily mean, 21,300 mg/L, Aug. 1, 1962; minimum daily mean, 0 mg/L on several days in 1982, 1984, and 1986.

SEDIMENT LOAD: Maximum daily, 183,000 tons, Sept. 26, 1955; minimum daily, 0 ton on many days during 1953-54, 1957, 1964, 1982, 1984.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 12,900 microsiemens, July 24; minimum daily, 2,100 microsiemens, May 31.

WATER TEMPERATURE: Maximum daily, 34.5°C, Aug. 8; minimum daily, 2.5°C, Jan. 19.

SEDIMENT CONCENTRATION: Maximum daily mean, 5,160 mg/L, Sept. 29; minimum daily mean, 2 mg/L, Feb. 15, 18.

SEDIMENT LOAD: Maximum daily, 9,170 tons, Sept. 29; minimum daily, .77 tons, Feb. 18.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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 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)	
NOV 08...	1445	125	6900	8.2	13.0	11.5	685	9.9	55	K8	K16	
MAR 12...	1225	773	2350	8.1	19.0	9.0	681	10.2	35	K34	330	
MAY 12...	1015	439	2550	7.1	29.0	17.0	--	--	41	260	230	
AUG 26...	1300	80	3720	8.1	26.0	22.0	694	8.1	22	K21	K18	
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 08...	1800	1700	490	150	810	8	7.3	220	0	180		
MAR 12...	1000	900	330	54	160	2	3.1	183	0	150		
MAY 12...	1000	940	310	64	190	3	3.8	122	0	100		
AUG 26...	1300	1200	340	110	440	5	5.8	115	0	94		
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 TOTAL (MG/L AS N) (00620)	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)
NOV 08...	1500	1400	1.6	14	4490	1.07	1.06	0.030	0.040	1.10	1.10	
MAR 12...	790	240	0.60	9.9	1680	0.150	--	0.010	<0.010	0.160	0.150	
MAY 12...	860	310	0.40	11	1810	--	--	<0.010	<0.010	0.230	0.230	
AUG 26...	800	82	0.60	8.7	1840	--	--	<0.010	<0.010	0.180	0.170	

RIO GRANDE BASIN

08396500 PECOS RIVER NEAR ARTESIA, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED TOTAL (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, TOTAL (MG/L AS P) (70507)	PHOS- PHORUS ORTHO, DIS- SOLVED TOTAL (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BORON, DIS- SOLVED TOTAL (UG/L AS B) (01020)	IRON, DIS- SOLVED TOTAL (UG/L AS FE) (01046)
NOV 08...	0.100	0.070	0.50	0.60	1.7	0.050	0.020	<0.010	3.6	360	<10
MAR 12...	0.060	0.050	--	<0.20	--	0.010	0.020	0.010	7.4	110	20
MAY 12...	0.030	0.030	0.67	0.70	0.93	0.280	0.020	<0.010	6.0	140	<10
AUG 26...	0.020	0.030	0.48	0.50	0.68	0.040	<0.010	<0.010	3.7	110	20

DATE	TIME	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)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)
NOV 08...	1445	2	1	<1	<1.0	3	1	3	2	<1	<1
AUG 26...	1300	3	3	<1	<1.0	<1	<1	1	1	<1	<1

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)
NOV 08...	<0.10	0.5	2	1	20	<10	<2.0	1.0	50	78
AUG 26...	<0.10	<0.1	1	1	10	10	--	--	--	--

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) (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)
NOV 08...	2	<1	2	<5	3	930	<10	210	<0.01	<1

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 THAN .062 MM (70331)
NOV 08...	1445	125	6900	11.5	101	34	32
MAR 12...	1225	773	2350	9.0	1050	2190	81
MAY 12...	1015	439	2550	17.0	419	497	98
AUG 26...	1300	80	3720	22.0	91	20	24

RIO GRANDE BASIN

08396500 PECOS RIVER NEAR ARTESIA, NM -- Continued

WATER-QUALITY RECORDS

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
ONCE-DAILY

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
3240	6130	8350	7370	7320	5270	7220	3130	2030	3760	5290	3590
3450	6120	8300	7400	7210	5380	7000	3160	1970	3830	5120	3790
3690	6270	8260	7490	7030	3490	7080	3270	2080	3780	5550	4360
4240	6210	8220	7480	6910	2880	6780	3450	1820	3790	5460	4040
4610	5990	8120	7470	6840	2610	6490	3510	2110	4550	5280	3250
5010	5910	7840	7430	6860	2500	6530	3230	2140	5160	5790	3510
4870	6080	7880	7370	6880	2450	6550	2760	2150	5220	6350	3600
4370	6060	7860	7350	6880	2440	6980	2550	2140	5760	6590	3800
4170	6310	7690	7240	6910	2340	7450	2510	2100	6370	6970	3940
4290	6750	7500	7530	6920	2320	8070	2550	2310	6700	5500	3910
4750	6990	7500	7040	6990	2210	7900	2520	2460	7130	5300	4410
5380	7240	7440	6920	7010	2260	7820	2610	2490	7660	6290	4510
5560	7540	7500	6580	7100	2240	7310	2460	2630	8070	6490	4520
5860	7570	7520	6540	7190	2290	7170	2510	2640	8750	7100	4490
5950	7630	7360	6660	7330	2640	7040	2570	2660	8730	6450	4530
6040	7340	8040	6610	7240	3050	5270	2650	2630	8900	4390	4390
6150	7430	7400	6820	7350	3350	5020	2750	2470	9510	4430	4430
6160	7070	7030	6700	7390	3700	4800	2720	2360	9500	4320	4140
6350	7770	6900	6710	7200	4080	4200	2680	2440	9820	6150	4140
6380	7760	6770	6740	7060	4640	4020	2760	2530	8720	5100	4080
6450	7340	6480	6580	7000	4950	3250	2710	2840	9130	4410	4220
6360	7350	6810	6630	7100	5380	2880	2690	3300	10000	4370	4240
6420	7710	6760	6650	7180	5710	2760	2540	3720	11100	3850	4270
6520	7690	6860	6810	6940	5990	2740	3470	4000	12900	3830	4480
6290	7820	6690	6720	6700	6240	2720	3510	4230	9120	3790	4700
6120	7900	6580	6620	6450	6480	2730	3950	3520	6970	4260	4820
6170	8030	6640	6560	6110	6590	2820	2960	2910	7080	4160	4950
6300	8170	6580	6850	5350	6960	3090	3170	3500	9160	4210	2300
6790	8200	6880	6800	5190	7330	3080	2990	3710	6920	4110	2240
6800	8280	7020	6930	---	7320	3100	2270	3590	4410	3330	2040
6710	---	7330	7040	---	7450	---	2100	---	4670	3440	---
5530	7160	7360	6960	6880	4280	5330	2860	2720	7330	5090	3990
6800	8280	8350	7530	7390	7450	8070	3950	4230	12900	7100	4950
3240	5910	6480	6540	5190	2210	2720	2100	1820	3760	3330	2040

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
ONCE-DAILY

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
23.0	6.0	5.5	8.0	11.0	11.0	13.0	25.0	19.5	26.0	31.0	24.0
23.5	9.0	6.5	6.5	8.0	15.0	14.0	24.0	21.0	28.5	25.0	28.5
20.0	8.0	7.0	6.5	10.0	15.0	11.0	23.0	22.0	23.0	28.0	30.0
21.0	13.0	4.0	7.0	8.0	12.0	20.0	23.0	23.0	25.5	31.5	24.0
19.0	12.0	7.0	6.0	6.0	11.0	15.0	24.0	24.0	29.0	27.0	25.0
17.0	16.0	9.0	7.5	11.0	12.0	16.0	23.0	22.5	26.5	32.0	29.0
17.0	12.0	10.5	7.0	7.0	12.0	22.0	20.0	22.5	32.5	28.0	23.0
23.5	14.0	8.0	9.0	11.0	14.0	22.5	21.0	23.0	28.0	34.5	28.0
19.0	9.0	7.0	7.0	8.0	15.0	25.0	22.0	23.0	31.0	25.5	23.0
19.0	11.0	10.0	6.0	8.5	9.0	20.0	19.0	25.0	28.0	32.5	27.5
19.0	8.0	9.5	5.5	9.5	10.0	26.0	22.5	26.5	28.0	31.5	20.5
18.5	9.0	10.0	5.5	9.5	14.0	19.0	20.0	24.0	23.0	30.0	27.0
23.0	9.0	8.5	5.5	13.0	10.5	22.0	19.0	27.5	25.0	24.0	22.0
17.5	13.0	7.0	4.0	11.5	12.0	23.0	23.0	24.0	33.0	32.5	23.0
22.0	17.0	6.0	4.0	12.0	12.0	18.5	23.5	23.0	30.0	25.0	28.0
21.5	15.0	6.5	3.0	10.0	13.0	19.0	23.0	26.0	24.0	24.5	28.0
23.0	14.5	8.0	3.5	13.0	15.0	24.0	21.5	24.0	29.5	31.0	23.0
17.5	14.0	8.0	3.5	8.0	13.0	19.0	22.0	24.0	23.0	31.5	24.5
19.5	11.0	8.0	2.5	13.0	12.0	17.5	25.0	27.5	30.0	26.5	21.5
19.0	11.5	7.0	5.5	14.0	16.0	17.0	22.0	28.0	23.0	30.0	26.0
15.5	8.0	6.5	6.0	10.0	13.0	17.0	24.0	25.0	26.5	27.5	25.5
20.5	11.0	7.5	7.0	9.0	12.5	19.0	21.5	25.5	25.0	29.0	24.0
17.5	7.0	6.0	6.0	15.5	12.0	21.0	19.0	27.0	23.0	25.0	25.0
20.0	10.0	7.0	8.0	8.5	13.0	18.0	18.0	29.0	32.5	28.5	23.5
16.0	8.0	5.0	9.0	14.5	18.0	19.0	20.0	30.0	31.5	28.0	20.0
17.5	7.0	7.0	8.0	16.0	17.0	22.0	18.5	27.5	26.5	23.5	23.0
17.0	8.5	6.0	8.0	13.0	18.0	23.0	17.5	24.0	26.0	28.0	17.5
16.0	9.0	5.0	10.0	14.0	16.0	20.0	20.0	30.0	34.0	25.0	20.0
14.0	8.5	6.0	10.5	12.0	14.0	24.0	17.0	25.5	31.5	25.0	20.0
10.0	7.0	8.5	11.5	---	17.5	21.0	18.0	26.5	29.0	25.5	20.0
7.0	---	8.0	11.5	---	15.0	---	20.0	---	29.5	28.0	---
18.5	10.5	7.3	6.7	10.8	13.5	19.6	21.3	25.0	27.8	28.2	24.1
23.5	17.0	10.5	11.5	16.0	18.0	26.0	25.0	30.0	34.0	34.5	30.0
7.0	6.0	4.0	2.5	6.0	9.0	11.0	17.0	19.5	23.0	23.5	17.5

RIO GRANDE BASIN

08396500 PECOS RIVER NEAR ARTESIA, NM -- Continued

WATER-QUALITY RECORDS

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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	437	429	60	18	51	14	46	22	13	6.0	22	12
2	350	303	64	22	43	12	60	28	13	5.0	604	995
3	281	201	90	32	39	11	26	12	18	8.0	1560	2810
4	238	151	93	34	30	8.0	10	4.0	41	18	1360	2670
5	197	109	77	31	46	14	28	13	14	6.0	1250	2810
6	207	124	86	35	20	6.0	32	14	13	5.0	1340	2910
7	282	197	61	24	15	4.0	55	25	5	2.0	1380	3120
8	252	161	103	35	45	14	45	21	9	3.0	1350	3230
9	207	123	55	18	35	11	10	4.0	21	8.0	1330	3090
10	214	112	35	11	81	24	31	15	22	8.0	1260	3060
11	256	123	28	8.0	33	9.0	43	20	22	8.0	1060	2600
12	143	69	18	5.0	39	12	16	7.0	23	8.0	1030	2220
13	142	65	32	9.0	35	12	35	19	18	6.0	895	1570
14	138	59	29	8.0	46	17	30	17	10	3.0	903	1240
15	132	55	37	11	38	13	30	19	2	.85	606	594
16	107	42	34	11	14	5.0	31	20	25	8.0	641	566
17	106	40	27	11	25	9.0	31	18	22	7.0	405	303
18	103	37	145	67	27	9.0	42	23	2	.77	392	273
19	93	33	40	17	30	11	38	20	9	3.0	305	199
20	83	29	27	11	30	12	48	25	12	4.0	359	229
21	76	27	24	9.0	209	103	68	36	26	8.0	78	49
22	67	23	23	8.0	98	53	61	32	25	8.0	54	35
23	98	33	27	9.0	51	34	51	26	21	7.0	51	26
24	88	31	31	10	51	32	23	12	29	10	32	12
25	75	28	29	9.0	58	34	22	11	19	7.0	32	11
26	55	20	40	13	44	26	46	23	23	13	29	9.0
27	84	29	42	13	75	47	43	21	27	15	37	11
28	68	23	62	19	59	37	25	12	24	14	31	8.0
29	52	17	56	17	54	32	15	6.0	14	7.0	32	8.0
30	58	17	50	14	22	12	42	22	---	---	37	10
31	57	17	---	---	28	14	23	11	---	---	35	9.0
TOTAL	---	2727	---	539.0	---	651.0	---	558.0	---	206.62	---	34689.0

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	31	9.0	267	297	1450	3750	243	124	21	4.0	31	9.0
2	31	9.0	267	297	1730	4480	202	96	21	4.0	144	36
3	28	8.0	237	263	1940	5050	86	37	38	8.0	60	14
4	43	14	221	245	1770	4610	17	6.0	33	8.0	104	45
5	36	12	232	256	1740	4540	39	14	19	4.0	1010	356
6	39	13	366	430	1370	3580	12	4.0	29	5.0	1090	344
7	36	10	598	12	1250	3290	15	5.0	27	4.0	626	191
8	36	9.0	554	320	1190	2930	16	5.0	17	2.0	479	136
9	40	9.0	504	673	1050	2460	26	8.0	17	3.0	369	99
10	32	7.0	418	562	2000	4190	28	9.0	24	5.0	282	73
11	35	8.0	365	493	1750	3090	26	9.0	22	3.0	165	38
12	27	7.0	405	506	897	1400	16	5.0	14	1.0	182	40
13	28	7.0	354	421	817	1200	13	4.0	12	1.0	101	23
14	21	5.0	340	408	504	695	19	4.0	12	1.0	142	34
15	73	27	346	418	464	643	29	4.0	25	5.0	62	14
16	50	19	316	384	452	628	40	5.0	28	6.0	52	13
17	47	17	281	342	510	795	32	3.0	31	8.0	117	35
18	59	24	271	332	523	717	35	4.0	24	5.0	184	53
19	208	137	291	360	473	532	57	9.0	19	4.0	174	50
20	524	558	299	371	424	437	18	2.0	31	8.0	197	58
21	1240	1760	460	575	348	289	22	2.0	26	7.0	154	46
22	914	1170	615	695	284	185	43	3.0	29	8.0	190	54
23	658	887	1860	1940	239	134	32	2.0	31	10	81	22
24	580	923	2370	2500	197	109	33	4.0	23	6.0	29	7.0
25	537	822	2600	2760	164	90	31	6.0	18	4.0	30	7.0
26	502	665	2030	3760	262	150	16	2.0	18	4.0	24	5.0
27	424	561	2640	6410	227	156	13	1.0	18	4.0	32	7.0
28	293	325	2760	6710	151	90	13	1.0	23	6.0	2970	4530
29	300	335	1830	4310	162	100	43	12	22	5.0	5160	9170
30	275	306	1740	3880	228	127	88	24	23	7.0	3100	6390
31	---	---	1580	3880	---	---	45	10	43	14	---	---
TOTAL	---	8663.0	---	44810	---	50447	---	424.0	---	164.0	---	21899.0

TOTAL LOAD FOR YEAR: 165777.62 TONS.

08398500 RIO PENASCO AT DAYTON, NM

LOCATION.--Lat 32°44'36", long 104°24'49", in NE¼SE¼SE¼ 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.

DRAINAGE AREA.--1,060 mi², approximately.

PERIOD OF RECORD.--April 1951 to current year. Prior to October 1953, published as "near Dayton."

REVISED RECORDS.--WSP 1242: 1951(M). WSP 1512: 1956. WSP 1923: 1955.

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.

REMARKS.--Records good. Diversions and ground-water withdrawals for irrigation of about 3,000 acres, 1959 determination, upstream from station. Several observations of water temperature were made during the year. No flow most of time.

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 ft²/s, for peak of Oct. 6 or 7, 1954.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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	.07	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	93	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	1.8	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.02	.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	.34	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.14	.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	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	95.37	0.00	0.00	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	3.18	.000	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	93	.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	.00	189	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1992, BY WATER YEAR (WY)

MEAN	5.94	1.78	.000	.000	.000	.000	.021	1.41	14.3	10.2	18.4	12.4
MAX	201	72.8	.016	.000	.000	.000	.70	41.0	528	221	328	372
(WY)	1955	1984	1975	1952	1952	1952	1957	1965	1986	1968	1966	1974
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1952	1952	1952	1952	1952	1952	1951	1952	1951	1954	1951	1951

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1951 - 1992
ANNUAL TOTAL	82.60	95.37	
ANNUAL MEAN	.23	.26	5.50
HIGHEST ANNUAL MEAN			43.4
LOWEST ANNUAL MEAN			.000
HIGHEST DAILY MEAN	32	Sep 12	9490
LOWEST DAILY MEAN	.00	Jan 1	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00
INSTANTANEOUS PEAK FLOW		419	a29800
INSTANTANEOUS PEAK STAGE		3.31	b16.40
ANNUAL RUNOFF (AC-FT)	164	189	3990
10 PERCENT EXCEEDS	.00	.00	.00
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

a-From rating curve extended above 7,800 ft³/s, on basis of slope-area measurements at gage heights 6.82 ft and 7.90 ft, at previous site and datum.

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 southeast of Artesia, and at mile 492.1.

PERIOD OF RECORD.--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 Summer (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 ft³/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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	307	118	104	177	e169	159	107	298	e1080	e190	69	e100
2	279	123	105	170	e159	368	114	278	e1150	e180	82	e88
3	240	138	105	164	e156	727	113	261	e1050	e165	82	e86
4	230	139	102	161	e155	759	121	250	e960	154	89	e145
5	216	155	113	161	e154	804	123	256	914	139	89	e128
6	216	156	111	162	e154	786	118	374	869	134	76	e105
7	252	149	114	160	e156	795	110	504	825	120	67	e100
8	237	134	117	161	155	779	98	517	852	104	55	e94
9	221	125	118	168	150	781	90	509	864	84	49	e90
10	198	118	115	167	148	812	83	461	811	75	81	e84
11	184	116	113	172	145	824	87	452	641	63	65	e78
12	192	116	120	174	144	782	92	481	545	55	41	e76
13	192	114	120	190	140	666	97	495	500	51	38	e80
14	182	112	144	201	136	484	89	453	466	51	36	e82
15	177	110	135	229	135	321	125	408	467	47	61	e78
16	162	117	133	226	131	274	172	376	464	42	84	e88
17	152	121	137	210	127	219	171	331	513	39	e100	e108
18	147	167	137	201	130	192	190	338	490	37	e84	e105
19	140	156	139	192	131	161	245	351	412	49	e80	e100
20	138	156	139	191	129	139	342	389	392	44	e106	e105
21	138	149	171	e190	125	127	671	376	e280	34	e104	e108
22	133	136	202	e188	123	121	534	e500	e210	30	e110	e100
23	129	130	246	e186	124	123	513	e720	e190	24	e125	e94
24	131	124	244	e184	127	118	511	e700	e190	32	e110	e88
25	140	122	222	e180	135	119	509	e730	e188	68	e94	e82
26	137	117	215	e180	182	119	463	e780	e195	51	e84	e80
27	132	114	222	e178	190	107	408	e780	e250	40	e88	e80
28	125	114	231	e173	184	106	344	e700	e215	34	e90	e400
29	125	111	219	e170	172	104	306	817	e225	85	e96	e650
30	116	104	196	e189	---	104	299	e1050	e200	112	e120	e740
31	110	---	187	e180	---	106	---	e1070	---	85	e115	---
TOTAL	5478	3861	4776	5635	4266	12086	7245	16005	16408	2418	2570	4342
MEAN	177	129	154	182	147	390	241	516	547	78.0	82.9	145
MAX	307	167	246	229	190	824	671	1070	1150	190	125	740
MIN	110	104	102	160	123	104	83	250	188	24	36	76
AC-FT	10870	7660	9470	11180	8460	23970	14370	31750	32550	4800	5100	8616

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1992, BY WATER YEAR (WY)

MEAN	128	83.2	77.7	77.6	69.9	147	156	253	220	273	236	198
MAX	695	306	272	307	291	417	489	1220	547	886	600	800
(WY)	1955	1987	1987	1987	1987	1987	1987	1973	1992	1960	1966	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1950 - 1992
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ANNUAL TOTAL	91573.99		85090				
ANNUAL MEAN	251		232		160		
HIGHEST ANNUAL MEAN					353		1987
LOWEST ANNUAL MEAN					64.1		1964
HIGHEST DAILY MEAN	1630	Jul 18	1150	Jun 2	2920		Jul 12 1960
LOWEST DAILY MEAN	.00	Jul 1	24	Jul 23	.00		Aug 21 1951
ANNUAL SEVEN-DAY MINIMUM	.41	Jun 27	36	Jul 18	.00		Jun 29 1953
ANNUAL RUNOFF (AC-FT)	181600		168800		115800		
10 PERCENT EXCEEDS	718		522		569		
50 PERCENT EXCEEDS	116		146		56		
90 PERCENT EXCEEDS	20		81		9.0		

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.

REMARKS.--Records excellent. No surface diversions upstream from station. No flow most of time.

[illegible]

MEAN	1.99	.000	.000	.000	.000	.000	.001	.96	10.6	3.26	18.6	11.3
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

ANNUAL MEAN						3.99		
HIGHEST ANNUAL MEAN						41.6		1966
LOWEST ANNUAL MEAN							.000	1969
HIGHEST DAILY MEAN						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						a29300	Aug 23	1966
INSTANTANEOUS PEAK STAGE						b19.90	Aug 23	1966
ANNUAL RUNOFF (AC-FT)						2890		
10 PERCENT EXCEEDS	.00			.00		.00		
50 PERCENT EXCEEDS	.00			.00		.00		
90 PERCENT EXCEEDS	.00			.00		.00		

a-From rating curve extended above 5,000 ft³/s, on basis of slope-area measurement of peak flow.
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 SE¼SE¼NW¼ sec.7, T.20 S., R.26 E., Eddy County, Hydrologic Unit 13060011, on downstream side of center pier of bridge on U.S. Highway 285, 0.4 mi south of Seven Rivers, 2.6 mi upstream from mouth, and 4.0 mi southwest of Lakewood. Mouth at Pecos River mile 480.9.

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 1991 TO SEPTEMBER 1992
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	.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	22	.00	10	.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	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.00	0.00	10.00	0.00	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.71	.000	.32	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	22	.00	10	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	44	.00	20	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1992, BY WATER YEAR (WY)

MEAN	1.04	.071	.000	.000	.000	.000	.006	3.06	10.9	2.07	19.8	13.7
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1964 - 1992

ANNUAL TOTAL	323.19	32.00	
ANNUAL MEAN	.89	.087	4.23
HIGHEST ANNUAL MEAN			31.5
LOWEST ANNUAL MEAN			.000
HIGHEST DAILY MEAN	265	Aug 17	9300
LOWEST DAILY MEAN	.00	Jan 1	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00
INSTANTANEOUS PEAK FLOW			269
INSTANTANEOUS PEAK STAGE			6.70
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (AC-FT)	641	63	3060
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, 966,360 acre-ft, from capacity table dated Aug. 24, 1981, between elevations 3,202.5 ft and 3,303.5 ft (stage at maximum flood). 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, 50,130 acre-ft, June 16, elevation, 3,256.29 ft; minimum, 12,580 acre-ft, Sept. 28, elevation, 3,239.40 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 07:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45090	38690	33760	20810	28910	31980	44460	42580	46360	45380	27050	18290
2	44140	37550	32730	21170	29130	32480	44140	42900	46680	45410	26900	18290
3	43210	36430	31980	21360	29360	33240	43830	42900	47000	45470	26920	18400
4	42280	35610	31250	21540	29590	34540	43520	42900	46680	45470	27000	18450
5	41660	34540	30530	21910	29820	35610	43520	43210	46040	45470	26770	18590
6	41660	33760	29820	22100	30060	36980	43210	42900	46040	45160	26420	18640
7	41660	32990	29130	22290	30290	38110	42900	42900	45720	44740	26100	18520
8	41660	32230	28460	22670	30530	39270	42580	42900	46040	44010	25660	18290
9	41660	32230	27800	22860	30770	40450	42280	43520	46040	43320	25220	17950
10	41660	32230	27150	23060	30770	41660	41660	44140	46040	42550	24720	17670
11	41660	32480	26510	23250	31010	42900	41360	44460	45720	41910	24330	17140
12	41660	32730	26080	23640	31010	44460	41050	44770	45720	41300	23880	16690
13	41660	32990	25460	23840	30770	45410	40450	45090	45410	40700	23240	16150
14	41660	32990	25460	24240	30770	45720	40150	45090	45410	40050	22600	15850
15	41660	33240	24850	24440	30770	45720	39860	45090	45410	39460	22080	15680
16	41660	33500	23640	24640	30770	45720	39560	45410	50130	37370	21450	15620
17	41660	33760	23060	25050	30770	45720	38980	45720	49500	35360	20820	15340
18	41360	33760	22480	25250	30770	45720	38980	46040	49040	33550	20710	15120
19	41360	34020	22100	25670	30770	45410	38980	45720	48300	31810	20450	14940
20	41360	34280	21540	25880	30770	45410	39270	46040	46950	30060	20270	14680
21	41360	34540	21170	26080	30770	45410	39560	46040	45750	29210	20020	14720
22	41050	34540	20630	26510	30770	45720	40150	46040	45470	28690	19910	14590
23	41050	34810	20270	26720	30770	45720	40750	46360	45290	28260	19750	14310
24	40750	34810	19740	26990	31010	45720	41050	46680	45470	27910	19540	14000
25	40490	35070	19390	27170	31010	45410	41360	46680	45530	27660	19370	13600
26	40490	35070	19050	27360	31010	45410	41970	46680	45440	27490	19020	13190
27	40150	35340	19050	27580	31250	45410	42280	46360	45410	27640	18860	12750
28	39860	35340	19570	27800	31490	45410	42580	46360	45590	27730	18560	12580
29	39560	35610	19920	28240	31740	45410	42580	45410	45530	27660	18350	13300
30	39560	34540	20270	28460	---	45090	42580	45410	45560	27400	18200	14260
31	39860	---	20630	28680	---	44770	---	46360	---	27200	18250	---
MAX	45090	38690	33760	28680	31740	45720	44460	46680	50130	45470	27050	18640
MIN	39560	32230	19050	20810	28910	31980	38980	42580	45290	27200	18200	12580
(†)	3254.60	3252.70	3246.30	3250.30	3251.60	3256.20	3255.50	3256.70	3254.94	3247.91	3243.28	3240.67
(††)	-5860	-5320	-13910	+8050	+3060	+13030	-2190	+3780	-800	-18360	-8950	-3990
CAL YR 1991	MAX 49270	MIN 5940	(††)	+9580								
WTR YR 1992	MAX 50130	MIN 12580	(††)	-31460								

(†) 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 NE¼NW¼SE¼ sec.27, T.20 S., R.26 E., Eddy County, Hydrologic Unit 13060011, on left bank, 0.8 mi downstream from Brantley Dam, 3.2 mi downstream from South Seven Rivers, 4.7 mi southeast of Seven Rivers, 6.4 mi south of Lakewood, 11.0 mi northwest of Carlsbad, and at mile 477.8.

DRAINAGE AREA.--17,650 mi², approximately (contributing area).

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	780	820	594	e27	23	28	305	173	1010	131	168	122
2	778	752	591	e27	22	27	226	156	e1100	96	145	74
3	775	704	589	e27	22	24	188	156	e1200	96	126	36
4	766	683	589	e27	22	23	188	184	e1200	96	174	62
5	259	620	585	e27	21	23	188	263	e1200	179	243	113
6	219	590	560	e27	20	23	291	334	e900	337	263	142
7	197	587	530	e27	21	24	306	389	e876	405	296	226
8	198	e484	526	e27	22	23	288	375	e800	442	315	261
9	197	e22	532	e26	22	24	290	230	e791	443	315	293
10	196	e22	531	24	22	26	289	149	e793	412	314	339
11	197	e22	530	24	107	26	289	181	785	394	313	354
12	197	e22	527	23	234	26	290	238	551	390	379	386
13	196	e22	527	22	204	202	325	291	488	361	415	340
14	156	e22	526	22	147	432	345	310	427	345	413	237
15	132	e22	526	22	117	333	345	276	566	834	442	200
16	132	e22	528	22	117	249	310	224	681	1100	457	232
17	133	e22	530	23	117	187	227	208	692	1090	e300	250
18	132	e21	534	23	121	186	160	284	764	1040	e230	250
19	133	e21	534	22	114	156	143	292	945	1030	e230	250
20	133	e21	542	22	98	93	144	299	1020	851	e250	189
21	174	e21	552	21	100	64	174	408	703	363	e250	149
22	198	e21	555	21	100	83	191	471	356	360	e230	221
23	200	e21	562	22	105	97	193	600	197	295	e230	291
24	201	e21	558	22	116	97	195	880	80	258	e250	334
25	201	e21	557	22	123	96	197	767	175	230	e270	353
26	235	e21	e414	22	108	96	198	840	194	186	e260	351
27	317	e21	e27	22	29	95	200	958	165	40	e260	261
28	265	e21	e27	22	28	94	201	1020	175	75	237	215
29	135	e387	e27	22	28	96	201	902	191	181	217	184
30	74	594	e27	23	---	187	201	791	191	227	159	137
31	228	---	e27	23	---	298	---	927	---	190	121	---
TOTAL	8134	6650	14264	733	2330	3438	7088	13576	19216	12477	8272	6852
MEAN	262	222	460	23.6	80.3	111	236	438	641	402	267	228
MAX	780	820	594	27	234	432	345	1020	1200	1100	457	386
MIN	74	21	27	21	20	23	143	149	80	40	121	36
AC-FT	16130	13190	28290	1450	4620	6820	14060	26930	38110	24750	16410	13590
e	Estimated											

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1992, BY WATER YEAR (WY)

	MEAN	118	48.3	56.8	51.0	56.4	65.1	226	212	205	185	185	171
MAX	262	222	460	297	300	120	307	1058	641	402	289	500	
(WY)	1992	1992	1992	1987	1987	1989	1986	1973	1992	1992	1976	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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1972 - 1992

ANNUAL TOTAL	77152	103030	
ANNUAL MEAN	211	282	135
HIGHEST ANNUAL MEAN			282
LOWEST ANNUAL MEAN			69.5
HIGHEST DAILY MEAN	913	Sep 17	2050
LOWEST DAILY MEAN	17	Jul 16	.31
ANNUAL SEVEN-DAY MINIMUM	18	Jul 15	.33
INSTANTANEOUS PEAK FLOW			a4160
INSTANTANEOUS PEAK STAGE			c5.38
INSTANTANEOUS LOW FLOW			.29
ANNUAL RUNOFF (AC-FT)	153000	204400	97800
10 PERCENT EXCEEDS	556	695	312
50 PERCENT EXCEEDS	149	201	74
90 PERCENT EXCEEDS	20	22	22

a-From rating curve extended above 780 ft³/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 1991 TO SEPTEMBER 1992

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)	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 04...	1140	697	3550	8.7	7.0	13.0	635	9.7	1100	310	83	
JAN 09...	1145	26	7250	8.3	11.0	5.5	685	12.4	--	--	--	
MAR 11...	1110	25	--	8.3	9.5	11.5	681	11.9	1800	440	160	
MAY 04...	1445	199	5000	8.2	24.0	19.0	--	--	1400	380	110	
AUG 27...	1025	267	3790	8.1	18.0	20.0	700	8.7	1300	350	99	
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 CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
NOV 04...	350	5	5.5	116	880	510	0.90	9.0	2220	200	<10	
JAN 09...	--	--	--	--	--	--	--	--	--	--	--	
MAR 11...	760	8	7.0	140	1300	1300	1.3	6.6	4060	330	<10	
MAY 04...	560	7	6.2	122	1200	900	0.80	5.5	3240	270	<10	
AUG 27...	390	5	6.2	98	1100	690	0.60	11	2710	230	10	

RIO GRANDE BASIN

08401900 ROCKY ARROYO AT HIGHWAY BRIDGE, NEAR CARLSBAD, NM

LOCATION.--Lat 32°30'23", long 104°22'28", in SE¼ 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.--285 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 most of time.

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 1991 TO SEPTEMBER 1992
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	9.2	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	202	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	8.3	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	2.3	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.02	.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	85	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	11	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	4.3	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	2.3	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.99	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.05	.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	16	.00	101	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	4.6	.00	163	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	12	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	13	3.2	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	5.2	1.1	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	1.1	.01	.00	.00
30	.00	.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	20.60	344.76	280.31	0.00	0.00
MEAN	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.66	11.5	9.04	.0000	.0000
MAX	.00	.00	.00	.00	.00	.00	.00	16	202	163	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	41	684	556	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1992, BY WATER YEAR (WY)

	MEAN	10.6	.29	.019	.000	.000	.000	.071	2.61	19.6	3.04	27.4	23.3
MAX	185	7.67	.56	.002	.000	.000	.000	1.50	37.6	468	19.3	616	335
(WY)	1975	1975	1975	1975	1964	1964	1964	1965	1979	1986	1964	1966	1974
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1965	1964	1964

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1964 - 1992

ANNUAL TOTAL	267.37	645.67	
ANNUAL MEAN	.73	1.76	
HIGHEST ANNUAL MEAN			7.26
LOWEST ANNUAL MEAN			53.9
HIGHEST DAILY MEAN	106	Jul 21	13900
LOWEST DAILY MEAN	.00	Jan 1	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00
INSTANTANEOUS PEAK FLOW			a31600
INSTANTANEOUS PEAK STAGE			15.35
ANNUAL RUNOFF (AC-FT)	530	1280	5260
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. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	761	756	552	24	22	24	288	161	1050	134	152	109
2	760	643	536	23	22	24	214	136	1150	87	104	80
3	757	650	548	23	22	22	167	136	1210	88	51	32
4	766	666	553	23	23	19	169	158	1260	89	121	41
5	340	605	547	23	22	18	169	231	1160	142	229	102
6	222	552	523	23	22	21	249	308	907	323	257	128
7	200	533	491	23	21	22	297	365	852	377	285	210
8	198	462	489	24	21	20	276	366	807	419	312	261
9	196	35	489	24	21	21	275	237	805	412	310	289
10	195	22	486	24	22	20	275	135	746	384	309	335
11	195	22	483	25	74	22	274	159	799	355	309	351
12	194	22	483	23	244	24	276	213	526	343	367	377
13	196	22	482	24	220	131	305	267	484	314	417	348
14	167	21	478	23	156	425	331	296	420	284	416	245
15	135	22	477	23	117	329	329	271	534	716	441	194
16	135	23	479	23	115	246	305	222	672	1060	455	223
17	136	19	482	22	119	173	228	200	681	1050	331	250
18	137	21	482	22	119	170	156	285	737	1020	211	250
19	137	21	482	22	118	146	131	287	929	1000	211	249
20	139	20	490	22	95	89	133	301	1040	843	239	193
21	166	21	438	21	97	52	155	396	747	299	238	142
22	196	21	495	23	97	64	179	471	321	315	211	201
23	196	20	517	24	101	81	182	587	224	280	208	282
24	197	20	513	24	114	82	179	944	56	236	243	327
25	196	20	511	25	123	80	180	797	160	325	272	351
26	222	20	429	25	117	80	183	870	191	218	266	350
27	301	20	29	24	32	80	182	1040	166	39	268	273
28	279	20	25	23	24	81	182	1100	164	48	242	209
29	150	274	25	23	24	82	183	971	188	150	214	183
30	89	553	25	22	---	154	183	807	183	211	164	134
31	167	---	24	22	---	277	---	933	---	180	110	---
TOTAL	8125	6126	13063	719	2324	3079	6635	13650	19169	11741	7963	6719
MEAN	262	204	421	23.2	80.1	99.3	221	440	639	379	257	224
MAX	766	756	553	25	244	425	331	1100	1260	1060	455	377
MIN	89	19	24	21	21	18	131	135	56	39	51	32
AC-FT	16120	12150	25910	1430	4610	6110	13160	27070	38020	23290	15790	13330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1992, BY WATER YEAR (WY)

	MEAN	186	77.3	77.1	67.2	69.7	83.6	252	191	221	234	265	217
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	19.6	17.7	133	46.4	18.6	10.8	21.5	12.3	
(WY)	1965	1989	1989	1989	1978	1965	1981	1946	1946	1976	1947	1964	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1939 - 1992

ANNUAL TOTAL	74169	99313		
ANNUAL MEAN	203	271		
HIGHEST ANNUAL MEAN			162	
LOWEST ANNUAL MEAN			395	1955
HIGHEST DAILY MEAN	929	Sep 17	1260	Jun 4
LOWEST DAILY MEAN	17	Jan 19	18	Mar 5
ANNUAL SEVEN-DAY MINIMUM	19	Feb 6	20	Nov 22
INSTANTANEOUS PEAK FLOW			1330	Jun 2
INSTANTANEOUS PEAK STAGE			4.61	Jun 2
INSTANTANEOUS LOW FLOW			15	Mar 4
ANNUAL RUNOFF (AC-FT)	147100	197000		117400
10 PERCENT EXCEEDS	501	668		333
50 PERCENT EXCEEDS	149	196		90
90 PERCENT EXCEEDS	20	22		23

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.

PERIOD OF RECORD.--July 1939 to current year (monthly discharge only, July 1939 to September 1965). January 1941 to March 1951 published in WSP 1732.

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 except for estimated daily discharges, which are poor. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	198	.00	.00	.00	.00	.00	251	188	202	e203	e98	136
2	197	.00	.00	.00	.00	.00	243	200	167	e240	e62	75
3	197	.00	.00	.00	.00	.00	229	185	209	e230	e35	.85
4	197	.00	.00	.00	.00	.00	212	198	210	e258	e139	88
5	179	.00	.00	.00	.00	.00	235	259	190	e268	e358	129
6	175	.00	.00	.00	.00	.00	262	281	106	e317	e221	130
7	223	.00	.00	.00	.00	.00	242	312	106	e347	e268	214
8	270	.00	.00	.00	.00	.00	237	278	106	e368	e258	236
9	267	.00	.00	.00	.00	.00	259	191	106	e368	e203	248
10	250	.00	.00	.00	.00	.00	280	166	106	e368	e277	277
11	249	.00	.00	.00	.00	77	269	208	107	e368	e307	280
12	225	.00	.00	.00	.00	114	261	240	78	e358	e379	290
13	192	.00	.00	.00	.00	120	291	232	60	e317	e400	283
14	246	.00	.00	.00	.00	161	291	212	65	e317	e400	256
15	242	.00	.00	.00	.00	164	290	215	131	e358	393	239
16	241	.00	.00	.00	.00	128	262	170	169	370	324	241
17	229	.00	.00	.00	.00	102	243	132	218	e364	253	243
18	219	.00	.00	.00	.00	102	202	107	302	e358	234	204
19	210	.00	.00	.00	.00	128	161	89	343	e317	229	192
20	193	.00	.00	.00	.00	181	166	82	361	e307	242	148
21	192	.00	.00	.00	.00	153	184	72	362	e307	215	151
22	189	.00	.00	.00	.00	160	184	62	359	e256	212	237
23	204	.00	.00	.00	.00	188	185	83	357	e249	203	268
24	212	.00	.00	.00	.00	220	172	104	357	e239	242	292
25	214	.00	.00	.00	.00	239	157	104	354	e203	242	312
26	235	.00	.00	.00	.00	249	138	126	301	e203	245	275
27	245	.00	.00	.00	.00	236	157	191	205	e194	244	210
28	238	.00	.00	.00	.00	239	178	214	154	e194	211	198
29	232	.00	.00	.00	.00	218	187	230	149	e194	156	176
30	166	.00	.00	.00	---	238	205	230	e166	e194	110	178
31	.00	---	.00	.00	---	259	---	230	---	e139	154	---
TOTAL	6526.00	0.00	0.00	0.00	0.00	3676.00	6633	5591	6106	8773	7314	6206.85
MEAN	211	.000	.000	.000	.000	119	221	180	204	283	236	207
MAX	270	.00	.00	.00	.00	259	291	312	362	370	400	312
MIN	.00	.00	.00	.00	.00	.00	138	62	60	139	35	.85
AC-FT	12940	.00	.00	.00	.00	7290	13160	11090	12110	17400	14510	12310

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1992, BY WATER YEAR (WY)

	MEAN	75.6	3.89	8.09	12.6	23.5	71.8	248	126	152	197	201	140
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1939 - 1992

ANNUAL TOTAL	39626.87	50825.85	
ANNUAL MEAN	109	139	104
HIGHEST ANNUAL MEAN			174
LOWEST ANNUAL MEAN			51.8
HIGHEST DAILY MEAN	359	400	526
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
ANNUAL RUNOFF (AC-FT)	78600	100800	75180
10 PERCENT EXCEEDS	257	291	292
50 PERCENT EXCEEDS	100	161	62
90 PERCENT EXCEEDS	.00	.00	.00

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.--WSP 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, 5,000 acre-ft, May 27 to June 11, gage height, 21.10 ft; minimum, 59 acre-ft, Apr. 6-7, May 6-7, gage height, 15.60 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 08:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3620	1210	1470	1410	1480	1780	163	451	5000	2400	1090	1150
2	3620	1540	1280	1410	1480	1780	274	390	5000	2190	1150	1090
3	3620	1610	1150	1410	1480	1780	218	274	5000	1960	1150	1090
4	3620	1610	1090	1470	1480	1780	163	153	5000	1610	975	1090
5	3450	1750	1030	1470	1480	1860	110	110	5000	1090	975	1090
6	3190	919	975	1540	1550	1860	59	59	5000	975	1090	1150
7	3110	811	975	1540	1550	1860	59	59	5000	919	1090	1210
8	2950	760	975	1610	1550	1860	163	153	5000	975	1090	864
9	2790	1610	975	1610	1550	1860	218	975	5000	1030	1150	864
10	2560	1610	919	1610	1630	1860	274	1030	5000	1090	1280	919
11	2400	1610	975	1680	1630	1860	274	975	5000	1090	1210	919
12	2250	1680	1030	1680	1330	1630	274	864	4900	1150	1090	917
13	2250	1680	975	1680	1260	1400	274	864	4900	1210	1030	1090
14	2180	1680	975	1750	1330	1780	331	864	4900	1150	975	1150
15	1960	1680	975	1750	1330	2010	331	1030	4710	1150	975	1090
16	1680	1750	975	1750	1330	2330	390	1090	4900	2100	919	1030
17	1470	1750	975	1750	1330	2580	513	1150	4900	2790	1150	975
18	1280	1820	975	1820	1400	2580	451	1210	4800	2790	1210	975
19	1090	1820	975	1820	1550	2830	390	1540	4800	2790	1150	1090
20	975	1890	975	1820	1550	2750	390	1890	4910	2710	1090	1150
21	919	1890	975	1890	1480	2500	274	2250	4910	2100	1150	1150
22	864	1890	1030	1890	1480	2330	274	2730	4900	1210	1090	1090
23	864	1890	1030	1960	1480	2090	274	3530	4330	1280	1090	1030
24	811	1960	1030	1260	1480	1860	274	4430	3710	1280	1030	975
25	811	1960	1030	1260	1550	1550	331	4900	3030	1470	1030	975
26	710	1960	1030	1330	1630	1260	390	4900	2710	1540	1030	1090
27	710	1960	1280	1330	1700	976	451	5000	2630	1610	1030	1210
28	811	2030	1280	1330	1700	641	451	5000	2400	1280	1090	1210
29	811	2030	1340	1400	1780	390	513	5000	2400	1030	1090	1210
30	616	1610	1340	1400	---	163	513	5000	2400	975	1150	1210
31	573	---	1340	1480	---	59	---	5000	---	1030	1210	---
MAX	3620	2030	1470	1960	1780	2830	513	5000	5000	2790	1280	1210
MIN	573	760	919	1260	1260	59	59	59	2400	919	919	864
(†)	3172.2	3174.00	3173.60	3174.80	3175.20	3172.60	3173.40	3178.10	3175.10	3173.10	3173.40	3173.40
(††)	-3050	+1040	-270	+140	+300	-1720	+450	+4490	-2600	-1370	+180	----
CAL YR 1991	MAX 3620	MIN 573	(††)	-270								
WTR YR 1992	MAX 5000	MIN 59	(††)	-2410								

(†) 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 SW¼SW¼NE¼ 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 1991 TO SEPTEMBER 1992

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	573	243	661	.00	.00	.00	.00	.00	784	.70	.00	.00
2	573	653	631	.00	.00	.00	.00	.00	1000	.00	.00	.00
3	562	607	613	.00	.00	.00	.00	.00	883	.00	.00	.00
4	562	613	607	.00	.00	.00	.00	.00	958	.00	.00	.00
5	279	607	595	.00	.00	.00	.00	.00	883	.00	.00	.00
6	52	584	545	.00	.00	.00	.00	.00	660	.00	.00	.00
7	1.7	567	510	.00	.00	.00	.00	.00	660	.00	.00	.00
8	1.0	417	505	.00	.00	.00	.00	.00	584	.00	.00	.00
9	.40	2.0	505	.00	.00	.00	.00	.00	556	.00	.00	.00
10	.00	.50	472	.00	.00	.00	.00	.00	505	.00	.00	.00
11	.00	.00	467	.00	107	.00	.00	.00	600	.00	.00	.00
12	.00	.00	467	.00	247	.00	.00	.00	364	.00	.00	.00
13	.00	.00	486	.00	178	.00	.00	.00	325	.00	.00	.00
14	.00	.00	491	.00	120	.00	.00	.00	259	.00	.00	.00
15	.00	.00	491	.00	120	.00	.00	.00	224	.00	.00	.00
16	.00	.00	486	.00	82	.00	.00	.00	318	150	.00	.00
17	.00	.00	491	.00	58	.00	.00	.00	325	493	.00	.00
18	.00	.00	491	.00	58	.00	.00	.00	288	660	.00	.00
19	.00	.00	491	.00	86	.00	.00	.00	348	649	.00	.00
20	.00	.00	500	.00	104	.00	.00	.00	562	642	.00	.00
21	.00	.00	515	.00	91	.00	.00	.00	473	546	.00	.00
22	.00	.00	520	.00	81	.00	.00	.00	77	97	.00	.00
23	.00	.00	515	.00	79	.00	.00	.00	9.5	5.1	.00	.00
24	.00	.00	515	.00	85	.00	.00	291	6.2	3.9	.00	.00
25	.00	.00	520	.00	85	.00	.00	698	4.8	3.5	.00	.00
26	.00	.00	393	.00	80	.00	.00	649	4.8	2.9	.00	.00
27	.00	.00	4.8	.00	5.8	.00	.00	791	4.6	4.4	.00	.00
28	.00	.00	2.7	.00	1.0	.00	.00	811	2.9	3.1	.00	.00
29	.00	368	1.4	.00	.02	.00	.00	631	2.7	1.9	.00	.00
30	.00	673	.60	.00	---	.00	.00	500	.50	.90	.00	.00
31	.00	---	.00	.00	---	.00	---	562	---	.15	.00	---
TOTAL	2604.10	5334.50	13492.50	0.00	1667.82	0.00	0.00	4933.00	11672.00	3263.55	0.00	0.00
MEAN	84.0	178	435	.000	57.5	.000	.000	159	389	105	.000	.000
MAX	573	673	661	.00	247	.00	.00	811	1000	660	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.50	.00	.00	.00
AC-FT	5170	10580	26760	.00	3310	.00	.00	9780	23150	6470	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1992, BY WATER YEAR (WY)

	MEAN	24.5	25.7	11.3	12.7	5.08	1.46	43.7	63.3	24.9	66.1	59.3
MAX	2365	445	435	237	255	188	59.6	739	1832	595	2034	1113
(WY)	1955	1987	1992	1987	1987	1987	1987	1973	1986	1960	1966	1974
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1952	1952	1952	1952	1952	1952	1952	1952	1951	1951	1951	1951

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1951 - 1992	
ANNUAL TOTAL	31022.23		42967.47		36.8	
ANNUAL MEAN	85.0		117		206	
HIGHEST ANNUAL MEAN					.000	
LOWEST ANNUAL MEAN					1953	
HIGHEST DAILY MEAN	750	Sep 17	1000	Jun 2	33600	Aug 23 1966
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 10	.00	Jun 1 1951
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 10	.00	Jun 1 1951
INSTANTANEOUS PEAK FLOW					a55500	Aug 23 1966
INSTANTANEOUS PEAK STAGE					b26.40	Aug 23 1966
INSTANTANEOUS LOW FLOW					.00	Oct 1
ANNUAL RUNOFF (AC-FT)	61530		85230		26690	
10 PERCENT EXCEEDS	515		549		.00	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

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.

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 1991 TO SEPTEMBER 1992
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	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.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	.00	e.00
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.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	0.00	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.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	.00	.00	.00	.00	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1992, BY WATER YEAR (WY)

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	10.3	1.04	.000	.000	.000	.000	.000	.56	19.6	.62	8.19	33.4								
MAX	196	19.7	.000	.000	.000	.000	.000	8.81	386	12.4	162	331								
(WY)	1973	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	1974	1973	1973	1973	1973	1973	1973	1973	1973								

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1973 - 1992

ANNUAL TOTAL	524.30																			
ANNUAL MEAN	1.44																			
HIGHEST ANNUAL MEAN										6.38										
LOWEST ANNUAL MEAN										31.7										
HIGHEST DAILY MEAN	523	Sep 13								.000										
LOWEST DAILY MEAN	.00	Jan 1								.00										
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1								.00										
INSTANTANEOUS PEAK FLOW										8750										
INSTANTANEOUS PEAK STAGE										.00										
ANNUAL RUNOFF (AC-FT)	1040									.00										
10 PERCENT EXCEEDS	.00									a27000										
50 PERCENT EXCEEDS	.00									b12.10										
90 PERCENT EXCEEDS	.00									4620										

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 NE $\frac{1}{4}$ SW $\frac{1}{4}$ 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 Bataan 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 is 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	443	176	516	31	25	26	24	6.9	717	e34	e37	36
2	444	555	495	31	26	26	24	21	945	e34	e36	32
3	442	523	485	30	29	27	29	22	852	e32	e36	32
4	436	528	475	30	31	26	29	23	919	e31	e35	31
5	297	533	470	30	25	24	41	22	918	e30	e34	32
6	99	521	451	33	26	25	30	21	698	e29	e34	33
7	38	504	431	31	25	25	28	21	716	e28	e34	35
8	34	460	423	30	25	26	26	30	624	e29	e34	35
9	32	46	421	29	25	23	27	29	592	e30	e35	34
10	31	33	407	27	25	21	25	26	563	e31	e34	32
11	36	31	406	31	60	22	25	27	642	e32	e33	31
12	36	32	398	32	276	22	24	24	442	e32	e31	33
13	35	32	405	27	224	22	23	23	388	e32	e30	35
14	34	32	411	27	131	23	30	22	332	e34	30	34
15	35	30	408	28	130	23	30	30	272	31	33	31
16	35	32	407	25	107	24	32	31	365	113	31	31
17	35	27	407	28	71	24	30	26	390	476	30	29
18	32	28	412	27	72	26	30	32	359	679	e30	31
19	31	27	410	25	88	24	22	22	393	678	e30	30
20	31	26	415	25	115	23	21	23	596	672	e28	32
21	32	28	452	28	104	23	23	34	644	599	e29	32
22	32	28	426	26	92	23	23	26	168	198	e31	29
23	36	26	425	25	90	23	22	47	59	42	e31	29
24	37	25	423	27	115	24	23	156	53	32	e30	28
25	33	25	436	26	97	23	22	683	e50	34	e30	27
26	30	25	386	27	93	23	23	612	e48	57	30	29
27	36	25	41	27	48	26	113	732	e46	42	34	28
28	35	25	32	26	28	30	30	774	e44	38	30	27
29	29	213	33	25	26	30	2.8	725	e39	38	32	28
30	30	521	30	25	---	29	2.7	497	e37	64	31	27
31	30	---	31	25	---	30	---	529	---	42	110	---
TOTAL	2996	5117	11368	864	2229	766	834.5	5296.9	12911	4273	1073	933
MEAN	96.6	171	367	27.9	76.9	24.7	27.8	171	430	138	34.6	31.1
MAX	444	555	516	33	276	30	113	774	945	679	110	36
MIN	29	25	30	25	25	21	2.7	6.9	37	28	28	27
AC-FT	5940	10150	22550	1710	4420	1520	1660	10510	25610	8480	2130	1850
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1992, BY WATER YEAR (WY)

	MEAN	60.6	59.3	53.1	39.9	43.0	34.2	21.5	68.0	139	37.0	44.6	141
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1970 - 1992

ANNUAL TOTAL	31864.3	48661.4	
ANNUAL MEAN	87.3	133	
HIGHEST ANNUAL MEAN			62.9
LOWEST ANNUAL MEAN			242
HIGHEST DAILY MEAN	663	Sep 18	10.9
LOWEST DAILY MEAN	2.7	May 16	22800
ANNUAL SEVEN-DAY MINIMUM	4.2	May 14	.00
INSTANTANEOUS PEAK FLOW			.00
INSTANTANEOUS PEAK STAGE			a26300
INSTANTANEOUS LOW FLOW			b15.22
ANNUAL RUNOFF (AC-FT)	63200	96520	45570
10 PERCENT EXCEEDS	433	471	49
50 PERCENT EXCEEDS	15	32	18
90 PERCENT EXCEEDS	6.5	24	3.6

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 1991 TO SEPTEMBER 1992

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)	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 01...	1445	32	3450	7.9	13.0	14.0	687	9.9	1300	330	120
DEC 31...	1215	31	4250	8.0	11.0	9.0	685	10.6	1400	360	110
MAR 09...	1120	28	5500	8.1	17.5	14.0	680	9.9	1500	380	140
MAY 14...	1345	23	3510	7.8	30.0	23.0	691	9.1	1200	300	120
AUG 26...	0815	31	4500	7.9	24.0	21.0	700	8.3	1500	380	140
SEP 29...	0930	27	4600	7.9	21.5	16.0	702	8.6	1400	350	130

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 CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
NOV 01...	350	4	4.9	64	1000	540	1.0	15	2400	260	<10
DEC 31...	500	6	6.4	145	1000	720	1.0	8.1	2790	240	<10
MAR 09...	570	6	5.9	154	1100	910	0.80	7.1	3210	290	<10
MAY 14...	350	4	4.7	170	930	560	0.60	14	2380	250	<10
AUG 26...	410	5	5.4	147	1200	730	0.60	17	2970	290	20
SEP 29...	420	5	5.2	148	1200	670	0.60	16	2880	290	20

LOCATION.--Lat 32°13'44", long 104°09'02", in SW1/4NW1/4 sec.12, T.24 S., R.27 E., Eddy County, Hydrologic Unit 13060011, on right bank 0.6 mi upstream from Black River diversion dam, 4.6 mi west of Malaga, and 7.1 mi upstream from mouth. Mouth at Pecos River mile 436.3.

PERIOD OF RECORD.--March to December 1940, December 1946 to current year.

REVISED RECORDS.--WSP 1632: 1948, 1949-50(P).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 3,070 ft above National Geodetic Vertical Datum of 1929, from topographic map. March to December 1940, water-stage recorder and Cippoletti weir at site 0.3 mi downstream at different datum.

REMARKS.--Records good. Diversions and ground-water withdrawals for irrigation of about 1,000 acres, 1959 determination, upstream from station. Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 20 or 21, 1941, reached a stage of 19.0 ft, present site and datum, determined in 1947 from well-defined floodmarks, discharge, 33,000 ft³/s, from rating curve extended above 1.400 ft/s on basis of slope-area measurements at gage heights 8.41 ft and 12.60 ft.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	11	11	12	12	12	14	11	23	10	11	13
2	13	11	11	12	12	12	15	11	17	11	11	13
3	13	11	11	12	12	13	15	11	15	11	11	12
4	13	11	11	12	13	13	14	12	15	11	12	12
5	13	11	11	12	13	12	15	12	14	11	12	12
6	13	11	11	12	13	12	18	12	14	11	11	11
7	14	11	11	12	12	12	16	12	14	11	12	11
8	14	11	11	12	12	12	14	29	16	11	12	11
9	14	11	11	12	12	12	14	19	16	11	12	11
10	13	11	11	12	12	12	14	14	15	11	12	11
11	12	11	12	13	12	13	14	13	14	11	12	11
12	11	11	12	13	12	13	14	13	14	11	12	11
13	11	11	12	13	12	13	15	13	14	12	12	11
14	11	11	11	12	12	13	15	13	14	11	11	12
15	11	11	11	12	12	14	14	13	13	11	11	12
16	11	11	11	12	12	15	14	21	13	9.9	11	13
17	11	11	11	12	11	14	14	17	12	11	10	14
18	11	11	11	13	11	14	13	23	10	11	10	12
19	11	11	12	13	12	14	12	20	9.6	11	10	11
20	11	11	13	12	12	14	11	12	9.4	11	11	12
21	12	11	16	12	12	14	11	11	9.3	11	12	11
22	12	11	17	12	12	13	11	11	9.5	11	12	11
23	12	11	15	12	12	13	10	18	9.4	11	12	11
24	12	11	13	12	13	13	9.7	21	8.9	9.8	14	11
25	11	11	13	12	14	13	9.5	15	8.4	9.7	13	11
26	12	11	14	12	13	13	9.5	13	8.5	9.5	13	11
27	12	11	13	12	12	13	9.5	12	12	9.5	15	11
28	12	11	13	12	12	13	9.5	11	15	10	15	11
29	12	11	13	12	12	13	9.3	11	11	12	13	11
30	12	11	13	12	---	13	9.3	12	9.6	12	13	11
31	11	---	13	12	---	14	---	28	---	12	13	---
TOTAL	373	330	379	377	353	404	383.3	464	383.6	336.4	371	346
MEAN	12.0	11.0	12.2	12.2	12.2	13.0	12.8	15.0	12.8	10.9	12.0	11.5
MAX	14	11	17	13	14	15	18	29	23	12	15	14
MIN	11	11	11	12	11	12	9.3	11	8.4	9.5	10	11
AC-FT	740	655	752	748	700	801	760	920	761	667	736	686

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1992, BY WATER YEAR (WY)

MEAN	13.2	9.41	9.55	10.6	10.2	6.32	10.5	12.8	14.8	14.7	25.5	20.0
MAX	80.4	33.0	17.5	18.7	19.7	13.0	55.5	106	87.8	111	553	121
(WY)	1955	1966	1989	1987	1987	1992	1954	1965	1986	1960	1966	1955
MIN	2.54	1.15	3.79	2.82	4.11	2.01	4.67	4.27	2.82	3.06	3.26	3.42
(WY)	1980	1978	1964	1964	1960	1978	1978	1974	1974	1974	1965	1977

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1948 - 1992

ANNUAL TOTAL	5214.0		4500.3						
ANNUAL MEAN	14.3		12.3			13.1			
HIGHEST ANNUAL MEAN						58.3			1966
LOWEST ANNUAL MEAN						6.82			1977
HIGHEST DAILY MEAN	209	Jul 25	29	May 8		12000			Aug 23 1966
LOWEST DAILY MEAN	3.9	Jul 20	8.4	Jun 25		.72			May 31 1983
ANNUAL SEVEN-DAY MINIMUM	6.5	Jun 14	9.1	Jun 20		1.0			Nov 9 1977
INSTANTANEOUS PEAK FLOW			44	May 8		a74600			Aug 23 1966
INSTANTANEOUS PEAK STAGE			1.40	May 8		b21.70			Aug 23 1966
INSTANTANEOUS LOW FLOW			8.2	Jun 25		.51			Jun 1 1983
ANNUAL RUNOFF (AC-FT)	10340		8930			9520			
10 PERCENT EXCEEDS	15		14			14			
50 PERCENT EXCEEDS	12		12			8.0			
90 PERCENT EXCEEDS	8.8		11			4.0			

a-From rating curve extended above 5,900 ft³/s, on basis of slope-area measurements at gage heights 12.60 ft and 21.7 ft.

b-From floodmarks.

WATER-DISCHARGE RECORDS

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred in 1904, discharge not determined. Flood of Aug. 7, 1916, reached a discharge of 70,000 ft³/s, at Carlsbad, 27 mi upstream. Flood in September 1919 reached a stage of 29.4 ft, present datum, discharge, 40,400 ft³/s.

a-From rating curve extended above 36,000 ft³/s, on basis of slope-area measurement of peak flow.
b-From floodmarks.

RIO GRANDE BASIN

08406500 PECOS RIVER NEAR MALAGA, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1937 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	HARD- NESS TOTAL AS (MG/L CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)
NOV 05...	1455	838	3450	8.1	19.0	13.0	690	11.4	1200	320	93
JAN 07...	0945	92	6500	8.1	9.5	6.5	685	11.5	1800	470	150
MAR 10...	1250	71	6500	8.4	13.5	12.5	691	11.4	1800	450	160
MAY 15...	0930	62	7000	8.0	22.5	19.0	696	8.3	2000	480	200
AUG 25...	1345	88	6900	8.2	31.0	22.0	701	9.6	1900	480	180
SEP 28...	1115	81	--	8.1	26.0	17.0	706	9.2	2000	470	190

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- 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)	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 05...	380	5	6.2	127	1000	650	0.90	11	2540	220	<10
JAN 07...	790	8	14	168	1400	1200	1.8	11	4140	330	<10
MAR 10...	820	8	12	137	1500	1400	1.4	4.4	4430	390	<10
MAY 15...	720	7	13	143	1500	1400	1.3	13	4410	450	<10
AUG 25...	850	8	11	131	1700	1300	0.80	14	4610	430	<10
SEP 28...	800	8	11	142	1700	1300	0.70	11	4570	450	40

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1938 - 1992		
ANNUAL TOTAL	50593.3			75730					
ANNUAL MEAN	139			207			132		
HIGHEST ANNUAL MEAN							1694		
LOWEST ANNUAL MEAN							18.7		
HIGHEST DAILY MEAN	960	Sep 19		1230	Jun 5		65000	Aug 23	1966
LOWEST DAILY MEAN	3.6	May 19		43	May 3		2.1	Jun 22	1978
ANNUAL SEVEN-DAY MINIMUM	4.4	May 18		54	May 1		2.6	Sep 26	1977
INSTANTANEOUS PEAK STAGE							a31.60	Aug 23	1966
INSTANTANEOUS LOW FLOW							.54	May 30	1965
ANNUAL RUNOFF (AC-FT)	100400			150200			95650		
10 PERCENT EXCEEDS	578			633			138		
50 PERCENT EXCEEDS	48			89			42		
90 PERCENT EXCEEDS	9.4			72			12		
a-From floodmarks.									

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.--Water years 1938-41, 1952 to current year.

REMARKS.--No significant inflow between streamflow gaging station and sampling cross-section.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	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 05...	1530	687	3600	8.3	19.0	13.0	690	11.0	1200	330	100	
JAN 07...	1140	91	9400	8.3	13.0	7.0	685	14.0	1900	480	180	
MAR 10...	1510	73	--	8.7	12.5	12.5	690	13.3	1900	460	180	
MAY 15...	1030	71	11000	8.0	28.5	21.5	697	8.8	2000	460	210	
AUG 25...	1545	81	10100	8.3	31.5	22.5	700	12.4	2200	520	220	
SEP 28...	1310	78	9120	8.2	27.0	18.0	705	10.6	2100	500	210	
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 05...	410	5	7.1	132	1000	690	0.90	11	2630	230	<10	
JAN 07...	1500	15	45	165	1300	2300	2.3	11	5920	490	<10	
MAR 10...	1600	16	43	127	1700	2600	1.1	2.6	6660	550	<10	
MAY 15...	1700	16	52	143	1700	2800	0.50	13	7020	320	<10	
AUG 25...	1400	13	39	111	1800	2300	0.90	14	6360	560	30	
SEP 28...	1400	13	40	129	1800	2300	0.80	11	6340	550	40	

RIO GRANDE BASIN

08407500 PECOS RIVER AT RED BLUFF, NM
(National stream-quality accounting network station)

LOCATION.--Lat 32°04'30", long 104°02'21", in SW 1/4 sec. 1, T.26 S., R.28 E., Eddy County, Hydrologic Unit 13060011, on right bank at Red Bluff, 0.2 mi downstream from Red Bluff Draw, 1.6 mi northwest of the El Paso Natural Gas (Pecos River) compressor station, 5.2 mi north of the New Mexico-Texas State line, 5.5 mi upstream from Delaware River, and at mile 411.2.

DRAINAGE AREA.--19,540 mi², approximately (contributing area).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,850.05 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are fair. Flow regulated by many reservoirs and diversion dams. Diversions and ground-water withdrawals upstream from station for irrigation of about 202,000 acres, 1959 determination. Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in October 1904 reached a stage of 28.0 ft, from information by Panhandle and Santa Fe Railway Co. (For dates of other historical floods see stations 08404000, 08406500.)

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	693	104	584	106	81	102	72	84	870	90	109	85
2	659	104	780	101	83	94	77	62	1060	86	121	140
3	601	475	770	97	84	95	81	49	1320	80	107	123
4	595	650	755	95	90	96	75	45	1290	77	101	93
5	592	678	744	90	91	93	75	47	1340	74	98	86
6	542	696	736	91	92	90	73	58	1370	74	95	80
7	247	691	717	90	88	88	74	66	1160	69	90	82
8	175	675	667	88	84	84	85	83	980	63	86	80
9	120	657	657	88	82	85	81	79	926	65	85	80
10	87	339	653	84	82	86	82	79	815	65	85	82
11	93	153	654	86	83	83	56	82	787	70	86	85
12	82	122	654	87	84	82	68	76	763	73	81	85
13	78	113	627	89	140	81	74	72	701	73	83	76
14	71	108	625	89	281	99	77	74	506	76	84	72
15	77	103	636	86	208	115	81	74	440	79	82	82
16	74	102	638	81	181	140	77	75	345	73	80	92
17	72	98	636	82	181	154	75	76	361	67	81	90
18	70	98	639	82	158	124	77	90	444	219	92	91
19	69	92	657	81	130	112	79	94	403	630	88	84
20	67	89	656	80	129	108	83	97	394	703	82	81
21	65	86	709	80	144	92	89	97	504	723	81	86
22	77	87	795	80	169	94	95	90	712	693	78	91
23	85	88	707	81	163	78	89	112	392	457	78	87
24	76	87	674	79	159	71	79	115	192	184	85	85
25	68	87	680	78	172	69	77	166	134	129	85	85
26	71	87	712	79	182	76	78	584	110	109	87	81
27	73	88	677	81	165	76	79	834	106	108	89	80
28	66	88	350	83	159	70	76	940	108	112	90	84
29	61	88	167	83	131	72	98	1080	101	91	90	81
30	75	89	126	81	---	83	109	1150	95	95	86	76
31	82	---	114	81	---	82	---	936	---	101	88	---
TOTAL	5863	7022	19196	2659	3876	2874	2391	7566	18729	5608	2753	2605
MEAN	189	234	619	85.8	134	92.7	79.7	244	624	181	88.8	86.8
MAX	693	696	795	106	281	154	109	1150	1370	723	121	140
MIN	61	86	114	78	81	69	56	45	95	63	78	72
AC-FT	11630	13930	38080	5270	7690	5700	4740	15010	37150	11120	5460	5170
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1992, BY WATER YEAR (WY)

	MEAN	280	153	129	116	99.1	71.4	59.4	234	192	110	167	304
MAX	5255	1382	813	703	534	295	681	6954	3181	1273	4210	6521	
(WY)	1942	1942	1942	1942	1942	1942	1942	1941	1941	1941	1966	1941	
MIN	10.0	6.71	8.57	10.7	13.7	7.76	6.38	7.90	4.30	2.55	5.08	5.77	
(WY)	1965	1978	1978	1965	1965	1978	1978	1971	1990	1966	1964	1977	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1938 - 1992

ANNUAL TOTAL	54075.1	81142	160	1941
ANNUAL MEAN	148	222	1655	
HIGHEST ANNUAL MEAN			19.2	1977
LOWEST ANNUAL MEAN				
HIGHEST DAILY MEAN	850	Sep 19	1370	Jun 6
LOWEST DAILY MEAN	5.8	May 21	45	May 4
ANNUAL SEVEN-DAY MINIMUM	7.1	May 19	59	May 2
INSTANTANEOUS PEAK FLOW			1380	Jun 6
INSTANTANEOUS PEAK STAGE			7.51	Jun 6
INSTANTANEOUS LOW FLOW			44	May 4
ANNUAL RUNOFF (AC-FT)	107300	160900	115700	
10 PERCENT EXCEEDS	657	679	211	
50 PERCENT EXCEEDS	58	89	55	
90 PERCENT EXCEEDS	9.3	74	13	

a-From rating curve extended above 32,000 ft³/s, on basis of slope-area measurement of peak flow.

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 1991 TO SEPTEMBER 1992

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)	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)	
OCT													
31...	1300	80	12100	8.2	5.0	10.0	4.4	690	10.9	29	K7	2100	
DEC													
30...	1430	123	9010	8.2	18.5	9.0	5.5	689	11.6	K1	K5	1600	
FEB													
27...	1445	166	7400	8.5	20.0	12.0	--	694	13.2	K1	K3	--	
MAY													
28...	1100	916	3820	8.1	18.5	15.0	6.9	699	9.8	58	930	1200	
JUL													
31...	1000	102	9900	8.1	28.0	24.0	15	700	9.1	77	64	1700	
SEP													
30...	1230	78	10700	8.2	29.5	16.0	23	706	9.2	<3	K62	2100	
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- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	
OCT													
31...	1900	490	200	1500	14	53	189	0	155	1700	2700		
DEC													
30...	1500	420	140	1200	13	30	203	0	166	1300	1800		
FEB													
27...	--	--	--	--	--	--	132	14	132	--	--		
MAY													
28...	1100	300	110	410	5	6.6	173	0	142	1000	670		
JUL													
31...	1600	400	160	1500	16	43	137	0	112	1500	2500		
SEP													
30...	2000	470	220	1400	13	40	143	0	117	1800	2300		
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 TOTAL (MG/L AS N) (00620)	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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT													
31...	2.4	15	9260	6760	0.640	0.660	0.040	0.040	0.680	0.700	0.070	0.050	
DEC													
30...	1.9	9.0	7760	5000	0.660	0.680	0.020	0.030	0.680	0.710	0.180	0.160	
FEB													
27...	--	--	--	--	0.590	0.620	0.020	0.020	0.610	0.640	0.090	0.050	
MAY													
28...	0.70	9.4	2770	2600	0.370	0.400	0.070	0.070	0.440	0.470	0.040	0.030	
JUL													
31...	0.60	15	6980	6190	0.190	0.220	0.030	0.020	0.220	0.240	0.080	0.070	
SEP													
30...	0.80	10	6520	6320	0.510	0.550	0.050	0.040	0.560	0.590	0.030	0.020	

RIO GRANDE BASIN

08407500 PECOS RIVER AT RED BLUFF, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	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)	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)
OCT 31...	0.63	0.70	1.4	0.040	0.020	0.030	<0.010	<20	<100	<1	20
DEC 30...	0.42	0.60	1.3	0.040	0.010	0.020	<0.010	--	--	--	--
FEB 27...	0.61	0.70	1.3	0.070	0.010	0.030	<0.010	--	--	--	--
MAY 28...	0.36	0.40	0.84	0.110	0.020	0.040	<0.010	20	<100	<1	10
JUL 31...	1.2	1.3	1.5	0.070	<0.010	0.040	0.010	20	<100	<1	<10
SEP 30...	1.4	1.4	2.0	0.090	0.020	0.030	<0.010	30	<100	<1	60

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, 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 31...	80	20	4	<1	2	<1.0	6000	52	30	6.5	83
DEC 30...	--	--	--	--	--	--	--	--	29	9.6	65
FEB 27...	--	--	--	--	--	--	--	--	30	13	64
MAY 28...	50	10	3	<1	1	<1.0	4600	15	37	92	77
JUL 31...	70	40	3	<1	<1	<1.0	6100	31	33	9.1	76
SEP 30...	90	40	3	<1	2	<1.0	6500	59	71	15	76

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, 3.6 mi southwest of Red Bluff, 3.7 mi upstream from mouth and 14 mi south of Malaga. Mouth at Pecos River mile 405.6.

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 except for estimated daily discharges, which are poor. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

[illegible]

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1992. BY WATER YEAR (WY)

MEAN	31.4	3.63	3.30	3.40	3.21	2.86	6.09	10.2	19.5	15.1	23.3	23.5
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	.65	.23	.003	.000	.000	.000	.000
(WY)	1952	1965	1966	1965	1966	1966	1968	1950	1950	1947	1983	1953

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1938 - 1992
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ANNUAL TOTAL	1759.53		1841.78						
ANNUAL MEAN	4.82		5.03			12.2			
HIGHEST ANNUAL MEAN						66.1		1956	
LOWEST ANNUAL MEAN						1.85		1964	
HIGHEST DAILY MEAN	94	Jul 13	154	Jun 9		22000		Oct 2	1955
LOWEST DAILY MEAN	.00	Jun 20	.94	Aug 12		.00		Jun 12	1938
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 26	.98	Aug 6		.00		Jul 29	1946
INSTANTANEOUS PEAK FLOW			710	Aug 13		a81400		Oct 2	1955
INSTANTANEOUS PEAK STAGE			5.79	Aug 13		b27.00		Oct 2	1955
INSTANTANEOUS LOW FLOW			.83	Aug 10					
ANNUAL RUNOFF (AC-FT)	3490		3650			8820			
10 PERCENT EXCEEDS	8.5		4.4			7.2			
50 PERCENT EXCEEDS	2.7		2.9			2.3			
90 PERCENT EXCEEDS	.83		1.7			.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, 157,100 acre-ft, June 24-26, gage height, minimum observed, 75,770 acre-ft, Oct. 1, gage height,

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

2,812.0	74,090	2,818.0	101,700	2,824.0	135,800
2,814.0	82,630	2,820.0	112,200	2,826.0	148,900
2,816.0	91,830	2,822.0	123,600	2,828.0	162,800

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 08:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75770	81320	92310	123000	126600	132000	129000	123000	131400	148900	153000	148900
2	77020	81320	93280	123000	126600	132700	128400	123000	132700	155000	153000	148200
3	77860	81760	94250	123000	126600	132700	127800	123000	134500	155000	153000	148200
4	79150	82190	95710	123600	126600	132700	127200	123000	135800	154400	153000	147500
5	80020	83530	96680	123600	127200	132700	126600	122400	137700	154400	153000	147500
6	80890	84890	97680	123600	127200	132700	126000	122400	139600	153700	152300	147500
7	81760	85790	98680	123600	127200	132700	125400	121800	141600	153700	152300	147500
8	81760	87150	99680	123600	127200	132700	125400	121800	143500	153000	151600	146900
9	82190	88080	100700	123600	127200	132700	125400	121800	144900	153000	151600	146900
10	82190	89020	101700	124200	127200	132700	125400	121800	146900	152300	151600	146900
11	82190	89960	102700	124200	127800	133300	125400	121200	148200	152300	151600	146900
12	82630	90420	104300	124200	127800	133300	125400	121200	148900	151600	150900	146200
13	82630	90420	105300	124200	127800	133300	125400	120700	149500	150900	150900	146200
14	82630	90890	105800	124200	128400	133300	125400	120700	150200	150900	150900	146200
15	83080	90890	106900	124200	128400	133300	125400	120700	151600	150900	150200	146200
16	82630	90890	107900	124200	128400	133300	125400	120100	152300	150200	150200	146200
17	82630	91360	109000	124800	129000	133300	126000	120100	152300	150200	150200	146200
18	82630	91360	109600	124800	129600	133300	126000	120100	153000	150200	150200	146200
19	82190	91360	110600	124800	129600	133300	126000	120100	153700	150900	150200	146200
20	82190	91360	111700	124800	129600	133300	126000	119500	154400	152300	150200	146200
21	82190	91360	113300	124800	130200	133300	126000	120100	154400	153000	149500	146200
22	82190	91360	115600	125400	130200	133900	126000	120100	155700	154400	149500	146200
23	82190	91360	116700	125400	130200	133900	125400	120700	156400	155000	149500	145500
24	81760	91360	117800	125400	130800	133900	124800	121800	157100	155000	149500	145500
25	81760	91830	118900	125400	130800	133300	124800	123000	157100	155000	149500	145500
26	81760	91830	120100	125400	131400	132700	124200	123600	157100	154400	149500	144900
27	81760	91830	121200	126000	131400	132000	124200	124800	156400	154400	149500	144900
28	81760	91830	122400	126000	132000	131400	123600	126000	156400	153700	150200	144900
29	81320	91830	122400	126000	132000	130800	123600	127200	156400	153700	149500	144900
30	81320	91830	123000	126000	---	130200	123600	128400	156400	153700	148900	144900
31	81320	---	123000	126000	---	129600	---	130200	---	153700	148900	---
MAX	83080	91830	123000	126000	132000	133900	129000	130200	157100	155000	153000	148900
MIN	75770	81320	92310	123000	126600	129600	123600	119500	131400	148900	148900	144900
(†)	2813.7	2816.0	2821.9	2822.4	2823.4	2823.0	2822.0	2823.1	2827.1	2826.7	2826.0	2825.4
(††)	+6810	+10510	+31170	+3000	+6000	-2400	-6000	+6600	+26200	-2700	-4800	-4000
CAL YR 1991	MAX	123000	MIN	50950	(†)	+50920						
WTR YR 1992	MAX	157100	MIN	75770	(†)	+70390						

(†) Gage height, in feet, at end of month.

(††) Change in contents, in acre-feet.

RIO GRANDE BASIN

08412500 PECOS RIVER NEAR ORLA, TX

LOCATION.--Lat 31°52'21", long 103°49'52", Reeves County, Hydrologic Unit 1300001, on right bank at bridge on Farm Road 652, 5.5 mi downstream from Salt Creek (Screw Bean Arroyo), 5.9 mi northeast of Orla, and 8.5 mi downstream from Red Bluff Reservoir.

DRAINAGE AREA.--21,210 mi² approximately (contributing area).

PERIOD OF RECORD.--May 1937 to current year.

REVISED RECORDS.--WSP 928: 1937.

GAGE.--Water-stage recorder. Datum of gage is 2,730.86 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 16, 1969, at site 6.9 mi downstream at datum 12.61 ft lower.

REMARKS.--Records good. Most of flow is releases from storage in Red Bluff Reservoir (station 08410000) 8.5 mi upstream. Occasional runoff occurs from draws between dam and station. There are many diversions above Red Bluff Reservoir for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	9.3	8.9	14	13	16	356	157	33	170	55	182
2	8.9	8.7	8.9	14	13	15	356	103	28	171	23	163
3	8.9	8.4	8.9	14	13	15	358	100	26	171	24	98
4	8.8	8.4	9.4	14	17	15	358	106	23	171	172	97
5	8.3	8.2	11	13	29	16	358	122	21	171	103	97
6	7.8	7.9	11	13	22	16	358	126	20	170	102	97
7	7.5	7.9	11	13	18	16	284	126	19	169	96	97
8	9.2	8.1	11	13	17	16	24	128	23	168	77	97
9	8.4	8.4	10	13	16	17	19	179	104	168	76	97
10	8.4	8.4	10	13	16	17	17	149	27	168	75	99
11	8.3	8.4	13	15	16	18	16	136	20	169	74	101
12	7.9	9.1	14	15	16	18	15	131	19	179	75	100
13	7.9	9.5	14	15	16	17	15	128	18	151	75	101
14	7.9	11	13	15	16	18	14	128	17	110	75	99
15	22	11	13	15	16	17	14	130	16	109	75	74
16	181	11	12	14	16	18	13	328	15	103	74	70
17	131	10	11	14	16	17	13	149	15	100	75	22
18	131	10	11	14	16	17	14	131	14	92	75	16
19	114	9.2	12	14	16	16	13	73	13	47	75	15
20	13	8.0	13	14	17	15	13	69	13	28	74	15
21	8.8	7.9	29	14	17	15	38	70	15	20	65	14
22	8.6	7.9	86	14	15	14	125	90	46	126	20	24
23	96	7.9	40	14	17	14	122	454	84	115	17	67
24	103	7.9	24	13	18	86	122	424	94	259	17	67
25	104	7.9	20	12	19	342	122	454	146	245	18	67
26	107	7.9	18	13	20	354	127	408	358	244	17	67
27	106	7.9	19	13	19	354	238	132	234	253	18	66
28	108	8.2	17	13	19	355	159	56	39	219	69	66
29	107	9.5	16	13	17	355	158	38	128	135	355	66
30	89	9.5	14	13	---	355	158	33	137	132	188	66
31	12	---	14	13	---	356	---	32	---	64	182	---
TOTAL	1558.5	263.4	523.1	424	496	2930	3997	4890	1765	4597	2516	2307
MEAN	50.3	8.78	16.9	13.7	17.1	94.5	133	158	58.8	148	81.2	76.9
MAX	181	11	86	15	29	356	358	454	358	259	355	182
MIN	7.5	7.9	8.9	12	13	14	13	32	13	20	17	14
AC-FT	3090	522	1040	841	984	5810	7930	9700	3500	9120	4990	4580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1992, BY WATER YEAR (WY)

MEAN	166	72.7	45.1	42.0	48.0	89.8	205	205	234	240	199	250
MAX	5717	1474	838	712	617	288	601	2717	3481	1425	686	6515
(WY)	1942	1942	1942	1942	1942	1955	1942	1941	1941	1941	1941	1941
MIN	1.78	1.38	1.77	.76	.46	.84	1.05	5.86	17.1	8.11	.74	8.70
(WY)	1948	1960	1962	1965	1965	1965	1965	1978	1953	1984	1965	1953

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1938 - 1992

ANNUAL TOTAL	18591.6	26267.0	
ANNUAL MEAN	50.9	71.8	
HIGHEST ANNUAL MEAN			150
LOWEST ANNUAL MEAN			1284
HIGHEST DAILY MEAN	361	454	13.1
LOWEST DAILY MEAN	7.4	7.5	23700
ANNUAL SEVEN-DAY MINIMUM	7.7	7.9	.00
INSTANTANEOUS PEAK FLOW		827	.00
INSTANTANEOUS PEAK STAGE		7.74	23700
INSTANTANEOUS LOW FLOW		7.4	20.74
ANNUAL RUNOFF (AC-FT)	36880	52100	.00
10 PERCENT EXCEEDS	133	171	108600
50 PERCENT EXCEEDS	11	19	381
90 PERCENT EXCEEDS	7.9	8.9	34
			5.1

RIO GRANDE BASIN

08412500 PECOS RIVER NEAR ORLA, TX -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed using the daily (or continuous) records of specific conductance and regression relationships between each chemical constituent and specific conductance. Regression equations developed for this station may be obtained from the Geological Survey District office upon request. This station operated by the Texas District.

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 on many days during winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 20,200 microsiemens Feb. 6; minimum daily, 4,040 microsiemens May 24.

WATER TEMPERATURE: Maximum daily, 29.0°C June 20; minimum daily, 1.5°C Jan. 16.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
OCT 08...	1230	9.3	16600	19.0	2900	2800	700	280	2900
JAN 09...	1130	13	15800	9.0	2700	2600	680	240	2600
MAR 03...	1040	14	16000	15.5	3300	3100	780	320	2700
APR 16...	1720	13	14000	23.0	2500	2300	610	230	2300
JUN 17...	1000	15	12800	26.5	2600	2400	660	220	2000
AUG 12...	1200	77	8540	23.0	1900	1800	480	170	1300

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY WAT DIS FIX END FIELD CACO3 (MG/L)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)
OCT 08...	23	54	100	2800	4700	0.80	5.7	11500
JAN 09...	22	33	130	2500	4200	1.6	6.4	10300
MAR 03...	21	35	130	2400	4400	1.2	6.1	10700
APR 16...	20	38	130	2200	3600	0.20	7.4	9060
JUN 17...	17	35	130	2100	3300	0.70	6.8	8400
AUG 12...	13	30	120	1600	2100	1.0	9.7	5760

RIO GRANDE BASIN

08412500 PECOS RIVER NEAR ORLA, TX -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

MONTHLY AND ANNUAL MEANS AND LOADS FOR OCTOBER 1991 TO SEPTEMBER 1992

MONTH YEAR	DISCHARGE (CFS-DAYS)	SPECIFIC CONDUCT- ANCE (MICRO- SIEMENS)	DIS- SOLVED SOLIDS (MG/L)	DIS- SOLVED SOLIDS (TONS)	DIS- SOLVED CHLORIDE (MG/L)	DIS- SOLVED CHLORIDE (TONS)	DIS- SOLVED SULFATE (MG/L)	DIS- SOLVED SULFATE (TONS)	HARDNESS (CA, MG) (MG/L)
OCT. 1991	1558.5	12700	8590	36200	3300	14000	2200	9210	*
NOV. 1991	263.4	16600	11400	8080	4600	3300	2600	1860	*
DEC. 1991	523.1	15100	10300	14600	4100	5830	2500	3480	*
JAN. 1992	424	16000	10900	12500	4400	5060	2600	2930	*
FEB. 1992	496	16100	11000	14800	4500	6000	2600	3440	*
MAR. 1992	2930	9360	6320	50000	2400	18700	1700	13600	1900
APR. 1992	3997	8740	5890	63500	2200	23400	1600	17700	1800
MAY 1992	4890	7400	4970	65700	1800	23900	1400	18700	1600
JUNE 1992	1765	10300	6990	33300	2600	12600	1900	8930	*
JULY 1992	4597	8620	5810	72100	2100	26500	1600	20100	1800
AUG. 1992	2516	8550	5760	39100	2100	14300	1600	11000	1800
SEPT 1992	2307	8590	5780	36000	2100	13200	1600	10100	1800
TOTAL	26267.0	**	**	446000	**	167000	**	121000	**
WTD.AVG.	72	9310	6280	**	2400	**	1700	**	1900

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY EQUIVALENT MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16700	13100	16300	15400	16400	16300	8340	8790	12300	8370	8650	8200
2	16700	e14800	16200	15300	16000	16100	8350	8800	13200	8400	8720	8350
3	16700	15700	16100	15200	15900	16000	8330	e8790	14200	8390	9270	8500
4	16700	16000	16000	15100	16100	15500	8350	8770	14800	8400	8060	8440
5	e16800	16400	15400	15000	17100	15700	8360	8750	e14700	e8410	8310	8350
6	16900	16500	14700	15200	20200	16400	8370	8680	14800	8420	8340	8310
7	16700	16400	15400	15500	19200	15600	8600	8660	14400	8440	8360	8320
8	16600	16300	15400	15600	18100	15100	9900	8710	14200	8420	8400	8240
9	16300	16400	15500	15700	16400	14900	12600	11200	9410	8410	8470	e8250
10	16200	e16400	e15400	15500	15600	14800	13800	9110	6660	8400	e8430	8260
11	16200	16500	15300	15200	15200	14600	e13800	8810	9030	8390	8400	8250
12	16400	16100	16400	15000	15100	14400	13900	8670	10100	9080	8440	8280
13	16400	16300	17100	e15600	15000	14500	13800	8660	10500	8700	8480	8480
14	16500	17400	e16900	16300	14900	14600	13800	8650	10700	8810	8480	8450
15	16500	18600	16700	16900	15100	e14500	13700	8660	11400	8660	8440	8550
16	12200	18800	16600	16400	15200	14400	13800	8050	12200	8610	8510	8700
17	12300	18600	16100	16600	15300	14300	13900	9310	12700	8600	8480	e9000
18	12300	18400	15600	16800	15400	14300	13800	8540	12800	11400	8480	9420
19	12200	17800	15200	16700	15300	14700	13900	8820	13000	19400	8440	12200
20	12300	17100	16000	16500	15200	14700	13700	8860	13000	16000	8420	13000
21	e14400	e16800	16800	16600	15100	14600	10600	8700	13100	11400	e8560	13000
22	15500	16500	15200	16800	15200	14600	8760	7250	11800	8410	8710	12500
23	12300	16400	14200	16700	15100	14700	8700	6050	10000	8450	9900	8900
24	12300	16200	11700	16600	15000	14600	8680	4040	8520	8170	11300	8750
25	12300	16100	e12000	16400	15200	8350	8700	4650	8620	8200	11500	e8750
26	12300	16000	12600	15900	16300	8320	8680	4780	e11000	8140	11500	8750
27	12300	15900	13700	15600	17400	8290	8500	7250	10200	8080	11600	8710
28	12200	16100	15000	16000	16900	8330	8620	7550	8280	8140	11000	8770
29	12100	e16300	15300	16300	16400	8320	8770	9410	9030	8280	8500	8720
30	12100	16400	15200	16600	---	8340	8780	e10900	8390	8360	8100	8730
31	12000	---	15300	16500	---	8330	---	12400	---	8300	8160	---
MEAN	14500	16500	15300	16000	16000	13500	10700	8400	11400	9210	8980	9100

e Estimated

RIO GRANDE BASIN

08412500 PECOS RIVER NEAR ORLA, TX -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.5	10.0	6.0	8.0	9.0	14.0	14.0	18.0	22.0	21.5	24.5	23.0
2	23.5	---	6.0	9.5	9.0	14.0	14.0	19.0	21.0	23.0	24.5	23.5
3	20.0	8.0	4.5	6.0	10.0	---	15.0	---	23.0	22.0	---	23.0
4	19.0	5.0	3.5	7.0	9.0	13.0	15.0	18.5	24.5	22.5	23.5	23.0
5	---	12.0	8.0	8.0	8.0	16.0	15.0	22.0	---	---	23.5	23.5
6	17.0	10.0	6.0	9.0	8.0	14.0	14.0	18.5	25.5	22.0	24.0	24.0
7	16.0	9.0	7.0	11.0	---	14.0	15.0	18.0	27.5	21.0	---	26.0
8	18.0	9.0	11.0	8.0	---	15.0	18.0	22.5	25.0	21.0	26.0	25.0
9	18.0	9.0	9.0	7.0	8.5	14.0	18.0	20.0	21.0	22.0	24.5	---
10	19.0	---	---	7.0	10.0	13.0	17.0	19.0	21.0	22.0	---	22.5
11	18.0	11.0	11.0	---	14.0	12.0	---	18.0	24.0	22.0	24.0	24.0
12	18.0	11.0	11.0	7.0	15.0	11.5	20.0	19.0	26.0	25.0	23.5	23.0
13	18.0	11.0	10.0	---	12.0	13.5	20.0	19.0	27.0	---	23.0	24.0
14	15.0	13.0	---	6.5	12.5	13.0	22.0	23.5	23.0	27.0	23.5	24.0
15	16.0	14.0	8.0	7.0	12.0	---	19.5	20.0	27.0	22.0	24.0	23.5
16	19.0	15.0	6.0	1.5	11.0	16.0	20.0	18.0	26.0	22.0	27.0	24.0
17	19.0	11.0	8.0	3.0	12.5	16.0	21.0	20.0	26.0	---	23.5	---
18	18.0	11.0	10.0	4.0	9.0	16.0	20.0	19.0	27.0	27.0	23.0	25.5
19	17.5	10.5	9.0	3.0	10.0	14.0	19.0	21.0	---	27.5	---	24.0
20	17.0	9.0	9.0	4.0	9.0	18.0	16.5	21.5	29.0	26.0	23.0	25.5
21	---	---	9.0	6.0	12.0	16.0	17.0	20.0	28.0	---	---	25.0
22	17.0	10.0	7.0	8.0	12.0	19.0	15.5	21.5	25.0	23.0	---	23.0
23	19.5	9.0	6.5	6.0	12.0	15.5	15.0	18.0	25.0	23.0	28.5	22.0
24	18.0	8.0	6.0	5.0	12.0	17.0	15.5	18.0	22.0	23.0	25.0	21.0
25	18.0	6.0	---	5.0	8.0	14.0	17.0	17.0	21.0	23.0	24.5	---
26	17.0	5.0	6.0	8.0	10.0	14.0	---	18.5	---	---	24.5	21.0
27	18.5	6.0	6.5	8.0	10.0	14.5	17.5	19.5	23.0	23.0	23.5	21.0
28	18.5	10.0	5.5	8.0	10.5	14.5	19.5	22.5	22.0	23.0	24.5	23.0
29	16.0	---	6.0	10.0	12.0	14.5	18.5	18.0	25.0	23.0	26.0	21.0
30	15.0	9.5	9.0	9.0	---	15.0	18.0	---	22.0	23.0	25.0	18.0
31	11.0	---	9.0	8.5	---	15.0	---	21.0	---	24.0	23.0	---
MEAN	17.8	9.7	7.6	6.8	10.6	14.7	17.4	19.6	24.4	23.2	24.4	23.2

MIMBRES RIVER BASIN

08477110 MIMBRES RIVER AT MIMBRES, NM

LOCATION.--Lat 32°51'17", long 107°58'23", in NW¼ 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	12	7.5	41	66	81	90	64	47	14	25	7.6
2	20	11	7.8	40	67	87	100	61	43	14	15	7.5
3	20	11	7.6	43	70	119	92	58	37	14	15	7.4
4	19	11	7.2	43	69	122	90	58	34	13	14	7.2
5	18	12	7.2	55	66	112	89	58	31	13	14	7.1
6	18	12	6.9	176	62	106	92	65	29	13	13	7.1
7	17	11	6.7	179	60	104	96	66	28	14	13	7.0
8	17	11	6.7	137	59	108	103	71	29	14	12	6.7
9	17	10	6.8	114	60	103	115	70	26	12	12	6.8
10	17	11	6.9	95	62	96	117	67	25	13	12	6.8
11	17	12	11	86	67	91	121	61	24	12	13	6.9
12	16	11	8.5	85	71	85	124	55	22	13	13	6.5
13	16	10	7.4	74	91	80	128	51	21	12	12	6.5
14	15	11	6.9	69	163	79	127	48	20	12	11	7.0
15	14	12	6.7	66	143	84	108	44	20	12	12	7.1
16	13	11	6.7	60	120	94	98	42	20	12	12	7.1
17	12	9.8	6.6	61	102	103	88	40	19	12	12	6.7
18	12	10	32	56	91	99	81	38	18	12	12	6.6
19	12	9.9	137	54	83	89	84	49	19	12	29	6.7
20	12	9.7	151	52	80	83	78	58	17	12	21	6.8
21	12	9.5	126	51	80	82	71	56	18	12	13	6.2
22	13	9.3	92	49	87	82	66	52	19	12	8.1	6.1
23	13	8.5	64	47	95	83	61	52	19	13	5.8	6.1
24	12	8.0	59	46	94	85	60	83	17	13	22	5.3
25	12	8.2	64	47	88	87	65	137	15	16	12	5.1
26	12	8.5	66	50	83	89	68	138	15	16	10	4.9
27	12	8.3	60	52	78	95	68	107	15	16	9.6	4.9
28	12	7.8	51	55	74	93	69	86	15	15	9.2	5.0
29	12	7.9	50	59	76	90	69	68	14	22	8.7	4.9
30	12	7.6	50	60	---	88	66	59	14	14	8.1	4.9
31	12	---	46	63	---	90	---	51	---	21	7.8	---
TOTAL	456	302.0	1173.1	2165	2407	2889	2684	2013	690	425	406.3	192.5
MEAN	14.7	10.1	37.8	69.8	83.0	93.2	89.5	64.9	23.0	13.7	13.1	6.42
MAX	20	12	151	179	163	122	128	138	47	22	29	7.6
MIN	12	7.6	6.6	40	59	79	60	38	14	12	5.8	4.9
AC-FT	904	599	2330	4290	4770	5730	5320	3990	1370	843	806	382

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1992, BY WATER YEAR (WY)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	15.9	13.7	35.4	23.2	26.8	36.5	27.2	18.2	9.47	13.2	35.2	12.6			
MAX	67.9	43.9	186	69.8	93.1	93.2	89.5	64.9	23.0	52.1	234	48.6			
(WY)	1986	1979	1985	1992	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	4.79	3.61	2.64			
(WY)	1979	1981	1981	1981	1981	1990	1990	1990	1989	1984	1978	1978			

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1978 - 1992

	1991 CALENDAR YEAR	1992 WATER YEAR	WATER YEARS 1978 - 1992
ANNUAL TOTAL	14316.7	15802.9	
ANNUAL MEAN	39.2	43.2	22.5
HIGHEST ANNUAL MEAN			45.1
LOWEST ANNUAL MEAN			5.08
HIGHEST DAILY MEAN	438	179	2500
LOWEST DAILY MEAN	6.6	4.9	.27
ANNUAL SEVEN-DAY MINIMUM	6.9	5.0	.50
INSTANTANEOUS PEAK FLOW		266	b6360
INSTANTANEOUS PEAK STAGE		3.76	a8.05
INSTANTANEOUS LOW FLOW			.22
ANNUAL RUNOFF (AC-FT)	28400	31350	16290
10 PERCENT EXCEEDS	86	95	52
50 PERCENT EXCEEDS	22	21	9.2
90 PERCENT EXCEEDS	7.8	7.2	3.0

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.

TULAROSA VALLEY BASIN

08481500 TULAROSA CREEK NEAR BENT, NM
(National stream-quality accounting network station)

LOCATION.--Lat 33°08'41", long 105°53'50", in SE¼NW¼ sec.32, T.13 S., R.11 E., Otero County, Hydrologic Unit 13044503, on right bank 45 ft downstream from bridge on old U.S. Highway 70, 2.6 mi west of Bent, 8.5 mi northeast of Tularosa, and at mile 19.4.
DRAINAGE AREA.--120 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1947 to current year. Prior to October 1982 published as "Rio Tularosa near Bent".

REVISED RECORDS.--WSP 1312: 1949(M).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 5,450 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood probably occurred Sept. 3, 1938, when a peak of 9,640 ft³/s was computed for station approximately 6 mi downstream near Tularosa. Another flood may have occurred July 2, 1914.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	23	27	26	27	23	26	23	22	16	22	22
2	24	24	28	26	28	24	28	24	20	17	23	22
3	24	23	28	26	27	27	27	21	21	16	22	22
4	23	23	28	26	27	25	26	24	22	17	23	23
5	23	24	28	26	27	25	25	23	23	17	23	23
6	22	24	28	26	27	25	25	25	22	17	23	20
7	22	24	25	27	27	25	23	27	22	17	22	18
8	22	24	25	27	27	26	24	26	22	17	22	18
9	22	25	25	27	27	25	23	25	22	17	19	20
10	22	26	27	27	27	24	24	26	22	17	19	19
11	22	26	37	27	27	26	23	27	21	17	21	19
12	22	27	31	27	27	26	23	26	20	13	24	19
13	20	25	28	26	27	25	23	27	19	13	23	20
14	22	25	25	26	27	24	26	27	15	13	36	20
15	22	25	24	26	26	23	27	27	15	16	24	21
16	23	35	23	25	26	24	26	27	15	16	23	21
17	22	31	23	26	25	24	27	22	18	17	21	21
18	22	30	25	25	25	25	27	22	18	17	21	21
19	22	29	28	25	25	25	25	22	18	18	22	20
20	22	29	26	26	26	25	25	23	18	18	24	20
21	22	28	24	27	26	e25	26	25	18	18	23	20
22	22	28	25	26	26	e24	28	25	17	19	23	19
23	22	28	25	26	24	e24	24	26	17	22	22	20
24	23	29	25	26	24	e23	24	24	17	27	22	21
25	23	29	26	26	25	e23	23	22	17	26	22	20
26	22	29	26	26	25	23	23	22	18	21	23	20
27	20	28	26	27	25	24	23	23	17	19	23	20
28	22	29	26	27	26	24	22	22	14	21	22	20
29	21	29	26	26	25	23	23	24	14	23	22	20
30	22	28	26	27	---	24	23	23	13	23	23	21
31	23	---	26	27	---	25	---	22	---	23	23	---
TOTAL	689	807	820	814	758	758	742	752	557	568	705	610
MEAN	22.2	26.9	26.5	26.3	26.1	24.5	24.7	24.3	18.6	18.3	22.7	20.3
MAX	24	35	37	27	28	27	28	27	23	27	36	23
MIN	20	23	23	25	24	23	22	21	13	13	19	18
AC-FT	1370	1600	1630	1610	1500	1500	1470	1490	1100	1130	1400	1210

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1992, BY WATER YEAR (WY)

	MEAN	12.0	13.0	13.3	13.5	13.5	13.2	12.6	11.3	10.0	11.4	13.7	12.4
MAX	26.0	26.9	26.5	26.3	26.1	24.5	24.7	24.3	21.1	25.9	38.8	36.0	
(WY)	1991	1992	1992	1992	1992	1992	1992	1992	1988	1989	1988	1990	
MIN	6.88	7.68	6.91	7.36	8.05	7.66	7.66	5.82	5.09	4.18	4.94	5.68	
(WY)	1962	1971	1971	1967	1967	1958	1960	1958	1963	1963	1970	1954	

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1948 - 1992

	ANNUAL TOTAL	8655	ANNUAL MEAN	23.7	ANNUAL MEAN	23.4	HIGHEST ANNUAL MEAN	12.5	LOWEST ANNUAL MEAN	23.6	HIGHEST DAILY MEAN	347	Aug 14	37	Dec 11	631	Aug 14	1980	LOWEST DAILY MEAN	11	Jun 25	13	Jun 30	1.4	Aug 3	1959	ANNUAL SEVEN-DAY MINIMUM	13	Jun 23	15	Jul 10	2.1	Aug 3	1959	INSTANTANEOUS PEAK FLOW	501	Aug 14	a4280	Jun 18	1965	INSTANTANEOUS PEAK STAGE	3.09	Aug 14	b5.02	Jun 18	1965	INSTANTANEOUS LOW FLOW	9.5	Jun 29	.00	May 14	1955	ANNUAL RUNOFF (AC-FT)	17170	ANNUAL RUNOFF (AC-FT)	17020	10 PERCENT EXCEEDS	29	22	50 PERCENT EXCEEDS	22	11	90 PERCENT EXCEEDS	15	18	6.5
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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

08461500 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 1992

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 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)
NOV 13...	1445	26	1290	8.1	14.0	8.5	37	615	9.3	<10	70	350
JAN 13...	1500	26	1320	8.3	2.0	3.5	1.4	625	10.7	--	K92	36
MAY 05...	1130	19	1190	7.8	23.0	16.0	2.6	--	--	12	K63	71
AUG 07...	0900	23	900	8.7	23.0	12.0	5.7	638	8.8	<10	450	930
31...	1345	24	1200	8.2	31.0	14.5	7.6	637	8.4	<10	>600	280

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)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
NOV 13...	720	490	200	52	43	0.7	1.2	276	0	226	460
JAN 13...	680	450	190	50	45	0.8	1.3	215	36	236	420
MAY 05...	690	460	190	52	44	0.7	1.1	283	0	232	430
AUG 07...	630	380	170	50	41	0.7	1.2	298	5	252	410
31...	630	400	170	49	42	0.7	1.2	276	0	226	420

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 TOTAL (MG/L AS N) (00620)	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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
NOV 13...	54	0.40	14	896	965	0.520	0.010	<0.010	0.530	0.530	0.020	0.010
JAN 13...	64	0.40	12	932	929	0.540	0.010	<0.010	0.550	0.550	0.010	0.010
MAY 05...	69	0.40	13	982	943	0.510	0.010	<0.010	0.520	0.540	<0.010	0.030
AUG 07...	58	0.40	14	888	901	--	<0.010	<0.010	0.530	0.520	0.020	0.030
31...	58	0.30	14	860	894	--	<0.010	<0.010	0.460	0.450	0.020	0.030

TULAROSA VALLEY BASIN

08481500 TULAROSA CREEK NEAR BENT, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	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												
13...	0.38	0.40	0.93	0.040	<0.010	<0.010	0.020	2.3	<10	23	<3	5
JAN												
13...	--	<0.20	--	<0.010	<0.010	<0.010	<0.010	--	20	17	<3	8
MAY												
05...	--	<0.20	--	<0.010	<0.010	<0.010	<0.010	1.8	<10	20	<3	6
AUG												
07...	--	<0.20	--	<0.010	<0.010	<0.010	<0.010	1.8	10	28	<3	<3
31...	--	<0.20	--	0.010	<0.010	<0.010	<0.010	1.6	20	24	<3	4
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, 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												
13...	20	20	<10	<1	2	<1.0	2300	<6	327	23	50	
JAN												
13...	20	19	<10	<1	1	<1.0	2200	<6	56	4.0	39	
MAY												
05...	20	19	<10	<1	1	<1.0	2300	<6	44	2.3	54	
AUG												
07...	11	14	<10	<1	<1	<1.0	2100	<6	122	7.4	67	
31...	15	12	<10	<1	1	<1.0	2100	<6	92	6.0	53	

SAN JUAN RIVER BASIN

09346400 SAN JUAN RIVER NEAR CARRACAS, CO

LOCATION.--Lat 37°00'49", long 107°18'42", in SE¼SW¼ sec.17, T.32 N., R.4 W., Archuleta County, Hydrologic Unit 14080101, on right bank just upstream from flow line of Navajo Reservoir, 3 mi northwest of Carracas, 7.2 mi upstream from Piedra River, and at mile 332.8.

DRAINAGE AREA.--1,230 mi², approximately.

PERIOD OF RECORD.--October 1961 to current year. Water-quality data available, July 1969 to August 1973. Sediment data available, August 1973.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 6,090 ft above National Geodetic Vertical Datum of 1929, from river-profile map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 11,000 acres upstream from station. High-water diversions upstream from station into Rio Grande basin through Azotea tunnel (08284160) began in March 1971. 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; June 29, 1927.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	220	164	260	260	210	414	1770	1910	1600	967	325	562
2	220	167	240	210	210	477	1200	1980	1600	849	291	487
3	210	164	220	180	210	519	961	1920	1600	729	277	442
4	190	146	250	220	210	476	1030	1800	1630	663	250	409
5	180	169	290	240	210	450	993	1710	1760	654	258	368
6	170	197	270	240	200	464	904	1700	1880	638	241	345
7	170	232	290	230	200	550	964	1800	1870	584	367	328
8	160	249	310	220	210	597	1020	1800	2050	556	321	301
9	160	245	280	190	220	412	1090	1710	1960	521	282	279
10	160	254	290	200	230	359	1180	1820	1870	493	255	254
11	160	319	300	220	220	375	1280	1540	1740	485	254	243
12	150	286	310	230	210	433	1320	1290	1810	574	267	229
13	150	238	300	210	200	569	1540	1350	1950	739	343	213
14	150	229	240	220	210	707	1810	1600	1920	758	296	190
15	150	357	220	190	210	773	1740	1700	1850	528	277	198
16	150	503	240	180	210	735	1470	1710	1710	415	268	268
17	142	363	270	180	200	710	1220	1700	1510	366	276	239
18	141	326	270	190	160	671	1160	1700	1420	345	263	217
19	137	278	270	190	170	482	1060	1700	1510	321	222	504
20	134	238	270	180	200	439	923	2000	1540	330	205	697
21	130	217	270	180	230	532	841	2400	1600	286	188	480
22	130	249	260	180	250	597	839	2300	1500	290	184	387
23	133	210	240	180	250	676	818	2000	1400	255	458	341
24	135	210	210	180	260	623	830	2000	1300	376	1700	311
25	137	250	200	180	270	677	962	2200	1300	519	3620	286
26	140	260	220	190	270	756	1090	2300	1200	808	1490	257
27	140	270	220	200	270	766	1200	2500	1140	689	1080	241
28	152	270	220	200	320	978	1520	2600	1050	510	844	237
29	164	270	240	210	360	957	1780	2400	976	428	709	225
30	155	270	260	210	---	974	1840	2100	992	371	624	215
31	177	---	270	210	---	1220	---	1800	---	331	567	---
TOTAL	4897	7600	8000	6300	6580	19368	36355	59040	47238	16378	17002	9753
MEAN	158	253	258	203	227	625	1212	1905	1575	528	548	325
MAX	220	503	310	260	360	1220	1840	2600	2050	967	3620	697
MIN	130	146	200	180	160	359	818	1290	976	255	184	190
AC-FT	9710	15070	15870	12500	13050	38420	72110	117100	93700	32490	33720	19350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1992, BY WATER YEAR (WY)

	MEAN	329	249	171	154	189	562	1143	1756	1837	646	319	278
	MAX	932	983	406	296	481	1319	2524	3195	4080	1677	708	880
	(WY)	1987	1987	1987	1987	1986	1985	1979	1973	1985	1979	1982	1982
	MIN	106	104	72.9	74.7	85.0	134	233	395	251	132	69.0	61.2
	(WY)	1979	1990	1990	1990	1990	1977	1977	1977	1977	1972	1972	1978

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1971 - 1992

ANNUAL TOTAL	226751	238511	
ANNUAL MEAN	621	652	a637
HIGHEST ANNUAL MEAN			1201
LOWEST ANNUAL MEAN			200
HIGHEST DAILY MEAN	2650	Apr 7	b6700
LOWEST DAILY MEAN	c130	Oct 21	d28
ANNUAL SEVEN-DAY MINIMUM	134	Oct 19	39
INSTANTANEOUS PEAK FLOW			e7690
INSTANTANEOUS PEAK STAGE		f6.94	Aug 25
INSTANTANEOUS LOW FLOW		130	Oct 21
ANNUAL RUNOFF (AC-FT)	449800	473100	461300
10 PERCENT EXCEEDS	1660	1720	1700
50 PERCENT EXCEEDS	322	310	289
90 PERCENT EXCEEDS	170	180	110

a-Average discharge for 9 years (water years 1962-70), 632 ft³/s; 457,900 acre-ft/yr, prior to completion of Azotea Tunnel.

b-Also maximum daily discharge for period of record.

c-Also occurred Oct 22.

d-Minimum daily discharge for period of record, about 5 ft³/s, Dec 10, 1961, result of freezeup.

e-Maximum discharge and stage for period of record, 9,730 ft³/s, Sep 6, 1970, gage height, 8.34 ft, from rating curve extended above 6,000 ft³/s, on basis of slope-area measurement of peak flow.

f-Maximum gage height, 8.60 ft, Dec 4, backwater from ice.

g-Maximum gage height for statistical period, and period of record, 9.55 ft, Dec 28, 1984, backwater from ice.

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.

DRAINAGE AREA.--629 mi².

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.--Records good 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	93	113	120	91	214	1060	1890	1160	426	194	294
2	140	91	100	100	97	244	884	1810	982	397	175	253
3	120	83	80	90	102	293	840	1720	958	381	165	230
4	110	71	85	110	100	285	989	1560	947	345	159	201
5	100	90	100	120	100	265	1040	1460	1120	328	187	184
6	100	99	100	120	95	264	941	1400	1200	295	166	170
7	95	108	100	110	95	289	1210	1390	1210	275	177	156
8	95	111	100	110	104	315	1230	1350	1180	257	280	148
9	90	111	100	110	108	266	1380	1330	1080	225	228	142
10	100	111	100	93	111	238	1420	1430	985	220	192	134
11	90	131	110	108	110	246	1510	1240	948	217	194	121
12	85	123	130	110	110	256	1530	1160	973	250	186	111
13	90	109	130	100	110	294	1630	1130	1080	280	178	107
14	90	113	119	100	110	367	2030	1190	1080	275	169	104
15	85	164	93	97	110	419	2010	1200	1020	225	178	108
16	84	200	95	95	110	430	1640	1200	912	205	162	141
17	81	169	100	95	100	425	1420	1220	805	181	180	123
18	77	140	105	95	90	410	1370	1270	758	169	160	111
19	77	130	110	95	100	335	1250	1270	757	168	147	334
20	75	124	110	90	120	345	1060	1450	761	177	139	351
21	75	111	105	95	146	358	950	1880	783	160	126	247
22	75	136	100	90	158	393	939	1680	772	159	118	207
23	75	105	100	85	162	451	889	1530	699	148	139	178
24	77	79	90	85	144	415	938	1680	663	183	508	165
25	82	95	100	90	138	430	1120	1690	667	348	911	154
26	84	106	110	95	139	491	1220	1660	628	444	596	148
27	82	106	110	95	145	564	1340	1670	570	335	454	139
28	86	113	110	100	159	709	1520	1600	517	257	380	131
29	86	121	120	100	184	712	1740	1470	482	223	340	123
30	91	121	130	100	---	749	1810	1450	456	219	301	121
31	89	---	130	100	---	926	---	1320	---	195	281	---
TOTAL	2826	3464	3285	3103	3448	12398	38910	45300	26153	7967	7770	5136
MEAN	91.2	115	106	100	119	400	1297	1461	872	257	251	171
MAX	140	200	130	120	184	926	2030	1890	1210	444	911	351
MIN	75	71	80	85	90	214	840	1130	456	148	118	104
AC-FT	5610	6870	6520	6150	6840	24590	77180	89850	51870	15800	15410	10190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1992, 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
MEAN	182	127	92.4	76.0	92.5	292	901	1302	1058	349	210	209																		
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 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1963 - 1992

	1991 CALENDAR YEAR	1992 WATER YEAR	WATER YEARS 1963 - 1992
ANNUAL TOTAL	140981	159760	
ANNUAL MEAN	386	437	408
HIGHEST ANNUAL MEAN			822
LOWEST ANNUAL MEAN			94.0
HIGHEST DAILY MEAN	2540	2030	5360
LOWEST DAILY MEAN	65	71	19
ANNUAL SEVEN-DAY MINIMUM	69	76	26
INSTANTANEOUS PEAK FLOW		2310	a8370
INSTANTANEOUS PEAK STAGE		4.03	b6.38
ANNUAL RUNOFF (AC-FT)	279600	316900	295700
10 PERCENT EXCEEDS	1090	1280	1180
50 PERCENT EXCEEDS	174	169	152
90 PERCENT EXCEEDS	80	91	53

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.

GAGE.--Water-stage recorder. Datum of gage is 6,143.59 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	120	140	55	65	213	369	197	586	340	248	206
2	127	110	120	50	65	220	314	258	615	340	238	194
3	142	110	100	48	65	391	280	238	557	340	251	195
4	133	100	95	46	70	340	279	203	521	340	207	189
5	155	110	95	45	70	293	279	206	496	340	203	182
6	153	120	95	48	70	260	301	168	514	340	199	192
7	145	130	95	55	65	235	489	145	502	340	209	182
8	145	140	95	55	70	234	508	143	578	330	206	164
9	140	140	90	55	75	186	531	136	702	330	206	153
10	150	140	65	55	75	159	550	308	703	330	196	170
11	140	160	55	55	80	148	556	264	700	330	171	173
12	116	150	50	60	80	145	568	235	700	330	182	176
13	120	140	50	60	80	152	580	189	700	300	179	169
14	122	150	50	55	80	176	609	173	700	250	205	167
15	120	200	50	60	80	185	621	155	700	230	196	176
16	125	240	50	65	80	173	500	138	460	240	195	212
17	120	220	55	65	75	158	430	135	400	258	206	199
18	115	180	55	65	70	155	400	128	400	248	199	196
19	103	160	55	65	75	139	360	125	400	207	199	451
20	105	150	60	65	90	130	310	157	320	216	192	411
21	120	150	55	65	110	132	280	257	300	203	200	276
22	127	160	50	65	128	142	270	231	300	209	173	249
23	123	130	50	65	147	150	270	241	340	199	249	248
24	113	100	50	65	152	140	300	466	340	277	566	227
25	130	110	50	65	143	135	380	399	340	433	401	215
26	78	130	50	65	145	142	440	564	340	377	301	216
27	83	130	55	65	143	150	470	568	340	297	218	220
28	122	140	60	65	169	191	430	533	340	252	199	203
29	110	150	65	65	195	195	360	550	340	241	190	175
30	110	150	65	70	---	185	245	585	340	234	199	179
31	110	---	60	65	---	233	---	586	---	231	206	---
TOTAL	3830	4320	2130	1847	2812	5887	12279	8681	14574	8932	6989	6365
MEAN	124	144	68.7	59.6	97.0	190	409	280	486	288	225	212
MAX	155	240	140	70	195	391	621	586	703	433	566	451
MIN	78	100	50	45	65	130	245	125	300	199	171	153
AC-FT	7600	8570	4220	3660	5580	11680	24360	17220	28910	17720	13860	12620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1992, BY WATER YEAR (WY)

	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
MEAN	198	142	105	76.3	93.2	188	346	451	493	309	215	207
MAX	672	709	396	182	203	494	1339	1719	1555	1381	878	706
(WY)	1987	1987	1983	1985	1958	1973	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 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1951 - 1992

	1991 CALENDAR YEAR	1992 WATER YEAR	1951 - 1992
ANNUAL TOTAL	67543	78646	
ANNUAL MEAN	185	215	240
HIGHEST ANNUAL MEAN			582
LOWEST ANNUAL MEAN			77.4
HIGHEST DAILY MEAN	752	703	4560
LOWEST DAILY MEAN	50	45	6.1
ANNUAL SEVEN-DAY MINIMUM	51	50	8.3
INSTANTANEOUS PEAK FLOW		845	a6400
INSTANTANEOUS PEAK STAGE		5.33	b8.95
ANNUAL RUNOFF (AC-FT)	134000	156000	173500
10 PERCENT EXCEEDS	318	443	513
50 PERCENT EXCEEDS	167	175	131
90 PERCENT EXCEEDS	90	65	50

a-From rating curve extended above 5,100 ft³/s.

b-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.--Records good except those for flows above 100 ft³/s, which are fair, and those 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. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	11	9.1	6.0	7.0	29	51	24	66	55	73	65
2	37	12	8.0	4.6	8.0	30	34	31	59	57	75	59
3	36	33	7.5	5.0	10	52	18	35	61	59	75	59
4	37	10	7.5	5.5	15	42	16	31	62	59	72	57
5	37	10	8.0	6.0	12	28	14	30	65	60	72	59
6	38	10	8.0	7.0	9.5	21	13	31	85	61	70	61
7	38	8.6	7.5	7.5	8.5	15	14	35	75	55	68	59
8	38	7.8	8.0	6.0	9.5	16	14	37	98	55	61	61
9	38	7.4	7.5	5.5	20	14	15	39	80	55	61	53
10	38	8.2	7.5	5.5	36	13	15	114	71	57	60	51
11	42	14	8.0	6.0	48	11	15	45	65	64	66	50
12	44	9.2	10	6.0	48	9.3	15	35	60	97	66	53
13	42	7.8	9.0	5.0	52	9.5	15	44	62	78	68	55
14	40	16	7.5	4.8	123	11	16	43	59	68	64	59
15	38	97	7.0	4.4	46	11	17	46	61	59	70	65
16	37	82	7.0	3.8	22	10	17	54	58	60	73	63
17	36	39	7.0	4.6	19	8.6	42	55	56	61	75	58
18	35	38	7.0	5.5	19	8.6	19	57	59	64	66	57
19	34	24	7.0	5.5	18	7.4	17	55	56	62	58	160
20	34	16	7.5	5.5	16	6.2	15	61	56	59	61	113
21	33	13	7.0	5.5	25	6.6	15	81	50	57	66	67
22	30	12	6.2	5.5	31	6.9	14	80	55	56	72	52
23	26	9.6	6.2	5.5	35	7.7	8.3	86	59	57	99	49
24	25	9.5	6.2	5.5	33	8.2	7.0	181	57	64	236	47
25	23	9.5	6.2	5.0	25	8.2	7.7	157	61	183	102	45
26	8.5	9.5	6.2	5.0	24	8.2	7.8	178	62	121	80	46
27	9.0	9.5	6.2	5.0	24	9.0	14	78	55	96	65	49
28	9.0	9.5	6.2	5.0	30	20	21	67	59	74	63	48
29	9.0	10	6.2	5.5	32	14	19	61	61	76	60	44
30	9.5	9.5	6.5	6.0	---	11	20	66	55	77	61	41
31	11	---	7.0	6.5	---	25	---	64	---	73	66	---
TOTAL	947.0	562.6	225.7	169.7	805.5	477.4	525.8	2001	1888	2179	2324	1805
MEAN	30.5	18.8	7.28	5.47	27.8	15.4	17.5	64.5	62.9	70.3	75.0	60.2
MAX	44	97	10	7.5	123	52	51	181	98	183	236	160
MIN	8.5	7.4	6.2	3.8	7.0	6.2	7.0	24	50	55	58	41
AC-FT	1880	1120	448	337	1600	947	1040	3970	3740	4320	4610	3580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1992, BY WATER YEAR (WY)

	MEAN	35.4	10.7	5.47	4.53	10.1	17.8	13.9	39.1	57.1	65.9	65.5	58.8
MAX	87.9	29.6	20.4	19.3	54.8	89.7	41.1	64.5	79.3	90.1	105	92.0	
(WY)	1973	1956	1985	1980	1980	1979	1979	1992	1986	1987	1987	1983	
MIN	5.25	3.68	1.74	2.04	2.55	3.03	3.77	15.7	24.4	21.2	32.1	26.5	
(WY)	1978	1978	1960	1973	1960	1972	1978	1978	1977	1977	1977	1951	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1951 - 1992

ANNUAL TOTAL	12549.8	13910.7	
ANNUAL MEAN	34.4	38.0	32.5
HIGHEST ANNUAL MEAN			47.7
LOWEST ANNUAL MEAN			15.6
HIGHEST DAILY MEAN	172	May 22	778
LOWEST DAILY MEAN	3.4	Feb 2	1.0
ANNUAL SEVEN-DAY MINIMUM	3.6	Jan 21	1.0
INSTANTANEOUS PEAK FLOW			419
INSTANTANEOUS PEAK STAGE			2.54
INSTANTANEOUS LOW FLOW			3.8
ANNUAL RUNOFF (AC-FT)	24890	27590	23520
10 PERCENT EXCEEDS	76	72	71
50 PERCENT EXCEEDS	24	34	23
90 PERCENT EXCEEDS	4.6	6.2	3.2

a-From rating curve extended above 160 ft³/s, on basis of field estimate of peak flow.

b-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 SW¼SE¼ sec.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, 1,644,300 acre-ft, Apr. 16, elevation, 6,081.62 ft; minimum contents, 1,535,400 acre-ft, Feb. 9, 10, elevation, 6,074.24 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 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 24:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1585800	1563800	1558300	1551900	1538000	1540700	1586900	1616400	1603700	1592100	1585200	1586600
2	1584700	1563100	1558000	1551400	1537600	1541900	1590100	1618100	1600600	1591500	1584600	1586900
3	1583800	1562500	1557100	1551000	1537200	1543600	1593100	1619100	1598400	1590700	1583500	1587000
4	1582900	1562100	1556600	1550500	1536900	1544500	1596500	1619100	1594800	1590300	1582500	1586600
5	1582800	1561700	1556200	1550800	1536800	1545900	1599100	1619000	1592800	1589700	1582100	1586000
6	1582500	1561300	1555700	1550500	1536300	1546400	1601900	1618700	1590700	1589000	1581200	1585600
7	1581600	1560900	1555300	1550100	1535900	1548400	1604600	1618400	1589000	1588100	1580700	1584600
8	1580700	1560700	1554700	1550100	1535500	1549300	1607800	1618200	1588500	1587500	1580600	1584100
9	1580100	1560400	1554400	1549100	1535400	1550100	1612100	1618700	1587500	1586700	1579700	1583200
10	1579100	1560300	1553900	1548800	1535400	1550100	1616300	1619600	1586600	1585800	1579400	1582800
11	1578100	1560400	1554800	1548200	1535500	1551100	1621000	1618700	1586300	1585800	1578500	1581900
12	1577200	1560000	1555400	1547800	1535900	1551600	1626000	1617300	1586700	1586300	1578000	1581000
13	1576300	1559500	1555900	1547300	1536300	1552500	1631100	1615300	1587600	1586900	1577800	1580100
14	1575700	1560000	1555900	1546900	1537200	1554200	1638600	1613200	1588100	1587300	1577200	1579400
15	1574900	1561300	1555400	1546400	1537900	1555700	1642500	1611900	1589000	1587200	1576300	1578800
16	1574000	1562500	1555000	1546000	1537600	1557400	1644300	1610100	1589400	1587200	1575400	1579400
17	1573500	1563000	1555000	1545200	1536800	1558800	1642400	1609200	1589600	1586700	1575000	1578500
18	1572200	1563100	1555100	1544700	1536800	1560000	1639800	1607800	1589600	1586300	1574400	1577700
19	1571500	1563400	1555400	1544300	1536500	1560600	1636800	1606500	1589900	1586100	1573900	1579800
20	1570900	1563000	1555400	1543900	1535900	1561300	1633100	1606200	1590600	1585800	1571900	1581800
21	1569800	1562500	1555300	1543500	1535900	1562300	1629000	1608500	1590600	1584900	1570700	1582200
22	1569000	1562500	1555000	1542900	1536300	1563500	1624700	1608300	1590900	1584400	1569500	1582500
23	1568300	1561700	1555000	1542200	1536900	1564500	1620000	1608300	1591300	1583400	1570100	1582500
24	1567600	1561300	1554700	1541800	1537200	1565900	1617300	1609100	1591200	1582800	1577400	1582200
25	1567200	1560600	1554100	1541200	1537700	1567300	1615600	1609800	1592100	1585200	1582500	1581600
26	1566700	1560300	1553600	1541000	1537700	1568100	1614600	1610100	1592700	1586600	1584600	1581500
27	1565800	1559800	1553600	1540500	1538000	1569000	1613500	1610100	1593500	1587500	1585200	1581000
28	1565200	1558900	1553200	1540100	1538900	1571500	1612800	1610100	1593000	1587300	1586100	1580600
29	1564600	1558900	1552800	1539600	1539800	1574000	1613400	1609100	1592400	1586900	1586300	1579800
30	1564600	1558800	1552200	1538900	---	1577400	1614700	1608100	1591800	1586600	1586400	1579400
31	1564200	---	1551900	1538400	---	1581500	---	1606000	---	1586000	1586700	---
MAX	1585800	1563800	1558300	1551900	1539800	1581500	1644300	1619600	1603700	1592100	1586700	1587000
MIN	1564200	1558800	1551900	1538400	1535400	1540700	1586900	1606000	1586300	1582800	1569500	1577700
(†)	6076.23	6075.85	6075.39	6074.46	6074.56	6077.43	6079.65	6079.07	6078.12	6077.73	6077.78	6077.29
(††)	-22200	-5400	-6900	-13500	+1400	+41700	+33200	-8700	-14200	-5800	+700	-7300

CAL YR 1991 MAX 1601600 MIN 1365000 (†) +169900
WTR YR 1992 MAX 1644300 MIN 1535400 (†) -7000

(†) 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 NW¼ 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.

DRAINAGE AREA.--3,260 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1954 to current year.

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 1991 TO SEPTEMBER 1992

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	598	630	644	507	630	502	607	3010	4380	1020	611	641
2	599	630	641	506	634	506	597	3020	4390	917	608	641
3	595	625	641	508	632	582	594	3040	4450	919	610	644
4	601	632	644	512	632	640	595	3060	4460	920	610	640
5	603	633	645	511	635	634	598	3080	4460	923	605	630
6	603	636	655	513	636	628	711	3090	4430	869	606	629
7	603	640	652	509	627	616	848	3100	4440	815	608	631
8	622	639	656	511	612	610	862	3090	4430	825	610	631
9	644	638	651	506	610	613	865	3110	4330	817	611	633
10	641	645	657	515	612	607	873	3090	3960	804	612	631
11	641	646	670	535	608	606	867	3200	3340	799	619	631
12	642	644	672	538	610	604	875	3360	2900	798	614	639
13	635	641	639	536	615	599	985	3370	2860	749	618	633
14	639	647	578	530	617	597	1230	3370	2850	645	623	641
15	634	635	541	524	614	596	1760	3390	2650	584	624	644
16	633	635	540	525	620	591	2630	3380	2170	552	628	646
17	633	629	531	530	620	595	3320	3380	1930	526	628	644
18	645	629	530	529	617	593	3840	3400	1940	510	629	644
19	641	623	531	524	617	591	3940	3520	1910	504	637	645
20	633	617	529	523	555	592	3900	3810	1870	490	631	660
21	628	627	517	522	498	586	3930	3990	1890	469	638	624
22	629	627	517	521	501	585	3970	4010	1840	533	639	627
23	627	624	512	520	501	580	3980	4030	1680	583	631	630
24	625	630	511	525	500	585	3570	4040	1510	619	637	627
25	624	634	511	523	498	585	2950	4040	1480	629	612	629
26	621	637	507	523	500	595	2950	4160	1480	624	613	621
27	632	637	506	523	498	599	2970	4310	1470	618	628	620
28	630	639	508	539	500	604	2980	4300	1480	611	640	620
29	624	642	511	583	500	603	3000	4320	1380	617	637	626
30	631	644	513	624	---	601	3010	4360	1170	611	633	624
31	632	---	511	635	---	616	---	4390	---	617	637	---
TOTAL	19388	19035	17871	16430	16849	18441	63807	110820	83530	21517	19287	19026
MEAN	625	634	576	530	581	595	2127	3575	2784	694	622	634
MAX	645	647	672	635	636	640	3980	4390	4460	1020	640	660
MIN	595	617	506	506	498	502	594	3010	1170	469	605	620
AC-FT	38460	37760	35450	32590	33420	36580	126600	219800	165700	42680	38260	37740
(†)	7500	0	0	0	0	2700	14800	16500	26500	31800	28500	17100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1992, BY WATER YEAR (WY)

	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974
MEAN	917	960	1102	1172	1172	1110	1369	1585	1550	1309	1014	958
MAX	2131	3018	2886	2768	2382	2909	4768	4962	5169	5126	3508	2674
(WY)	1966	1966	1966	1986	1987	1987	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 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1963 - 1992

	1991 CALENDAR YEAR	1992 WATER YEAR	1963 - 1992
ANNUAL TOTAL	267964	426001	
ANNUAL MEAN	734	1164	a1185
HIGHEST ANNUAL MEAN			2686
LOWEST ANNUAL MEAN			280
HIGHEST DAILY MEAN	2930	May 10	6420
LOWEST DAILY MEAN	506	Jan 1	30
ANNUAL SEVEN-DAY MINIMUM	509	Dec 23	108
INSTANTANEOUS PEAK FLOW			b18900
INSTANTANEOUS PEAK STAGE			c11.00
INSTANTANEOUS LOW FLOW			8.0
ANNUAL RUNOFF (AC-FT)	531500	845000	858200
10 PERCENT EXCEEDS	1110	3360	2520
50 PERCENT EXCEEDS	598	630	700
90 PERCENT EXCEEDS	535	519	396

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 1991 TO SEPTEMBER 1992

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)
NOV 07...	1230	640	274	8.5	11.5	8.0	2.2	630	13.8
JAN 17...	0800	503	298	7.4	-6.5	3.0	5.0	620	13.3
MAR 17...	1045	595	282	8.0	16.5	6.5	4.4	696	13.6
MAY 04...	1500	3140	272	7.9	20.0	7.5	3.2	622	12.3
JUL 21...	1400	469	286	7.9	31.5	14.0	1.7	620	11.2
AUG 13...	0930	618	275	7.6	22.5	8.5	1.7	630	10.5
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)
NOV 07...	100	23	32	5.9	14	0.6	1.8	83	8
JAN 17...	110	20	32	6.1	15	0.6	1.9	104	0
MAR 17...	100	11	31	5.9	16	0.7	1.8	110	0
MAY 04...	100	18	31	6.2	15	0.6	2.0	103	0
JUL 21...	110	26	33	6.8	16	0.7	1.8	103	0
AUG 13...	100	19	31	6.5	15	0.6	1.8	104	0
DATE	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS 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, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)		
NOV 07...	82	47	2.3	0.20	9.6	164	162		
JAN 17...	85	50	4.9	0.20	10	152	171		
MAR 17...	90	48	3.4	0.20	9.4	177	170		
MAY 04...	84	49	1.8	0.20	11	165	167		
JUL 21...	84	51	2.0	0.10	9.7	171	171		
AUG 13...	85	51	3.4	0.20	9.9	171	170		

SAN JUAN RIVER BASIN

09363500 ANIMAS RIVER NEAR CEDAR HILL, NM

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.

DRAINAGE AREA.--1,090 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge only for October and November 1933, published in WSP 1313.

REVISED RECORDS.--WSP 1563: 1940 and 1946 (monthly figures only).

GAGE.--Water-stage recorder. Elevation of gage is 5,960 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Sept. 14, 1937, at datum between 1.52 ft and 1.36 ft higher. Sept. 15, 1937, to Sept. 30, 1946, at datum 1.36 ft higher.

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.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred in October 1911 at this location.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	461	343	346	e290	e274	337	856	3230	2810	1550	668	696
2	462	344	340	e290	e277	347	744	3080	2750	1340	628	678
3	400	320	337	e300	e279	542	655	2900	2640	1160	580	638
4	372	292	353	e320	e280	498	687	2500	2560	1100	560	600
5	362	328	e310	e330	e282	483	736	2500	3000	1080	562	565
6	348	342	e300	e320	e245	471	773	2740	3400	1110	568	539
7	335	308	e285	e300	244	430	828	3070	3330	1080	632	509
8	326	356	e280	e275	269	461	925	2990	2990	1040	642	475
9	317	325	e326	e260	283	394	1100	2990	2650	1050	615	453
10	349	335	e340	e245	297	381	1250	3070	2430	1030	580	428
11	319	322	e400	e276	301	348	1450	2430	2660	950	609	418
12	352	301	e410	e275	292	377	1590	2190	2820	1060	598	410
13	336	306	e370	e275	290	421	1800	2240	3380	1180	564	402
14	325	302	e350	e280	319	477	2060	2480	3430	1020	539	394
15	302	608	e300	e280	291	504	2090	2600	3070	883	523	393
16	303	593	e275	e280	278	509	1870	2490	2600	853	493	443
17	288	445	e310	e290	278	496	1660	2490	2130	792	488	422
18	322	418	e380	e300	257	470	1660	2580	2090	738	462	409
19	304	385	e370	e300	250	432	1600	2470	2360	706	433	719
20	286	341	e360	e290	236	430	1390	3050	2570	673	410	762
21	277	328	e340	e290	266	445	1250	4090	2640	671	398	623
22	280	362	e320	e280	293	475	1230	3400	2490	657	387	529
23	297	339	e310	e276	300	484	1190	2840	2340	670	435	490
24	284	370	e300	e275	309	437	1150	3410	2110	844	716	466
25	280	350	e290	e267	298	414	1270	3690	2100	1480	1380	454
26	277	380	e310	e270	284	416	1470	3850	1970	1870	1230	448
27	264	351	e275	e269	281	444	1720	4590	1850	1290	1140	428
28	281	327	e275	e280	304	521	2150	4800	1630	989	969	425
29	330	318	e275	e285	313	505	2690	4020	1650	837	846	415
30	334	336	e290	e305	---	496	2980	3560	1630	764	768	401
31	357	---	e300	e295	---	628	---	3090	---	684	727	---
TOTAL	10130	10775	10027	8868	8170	14073	42824	95430	76080	31151	20150	15032
MEAN	327	359	323	286	282	454	1427	3078	2536	1005	650	501
MAX	462	608	410	330	319	628	2980	4800	3430	1870	1380	762
MIN	264	292	275	245	236	337	655	2190	1630	657	387	393
AC-FT	20090	21370	19890	17590	16210	27910	84940	189300	150900	61790	39970	29820
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1934	467	2479	1942	169	1957
1935	340	1068	1942	158	1934
1936	266	555	1987	159	1957
1937	243	388	1973	169	1954
1938	256	467	1987	151	1964
1939	407	831	1989	141	1977
1940	1094	2191	1985	273	1977
1941	2503	5686	1941	449	1977
1942	3001	6145	1957	458	1934
1943	1248	3710	1957	223	1934
1944	612	1681	1957	232	1934
1945	518	1922	1970	155	1956

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1934 - 1992

ANNUAL TOTAL	282314	342710	
ANNUAL MEAN	773	936	923
HIGHEST ANNUAL MEAN			1713
LOWEST ANNUAL MEAN			340
HIGHEST DAILY MEAN	3110	4800	11800
LOWEST DAILY MEAN	225	236	.00
ANNUAL SEVEN-DAY MINIMUM	231	265	.00
INSTANTANEOUS PEAK FLOW		5220	13100
INSTANTANEOUS PEAK STAGE		8.64	11.45
INSTANTANEOUS LOW FLOW			63
ANNUAL RUNOFF (AC-FT)	560000	679800	668500
10 PERCENT EXCEEDS	2080	2610	2400
50 PERCENT EXCEEDS	437	453	404
90 PERCENT EXCEEDS	272	280	209

COLORADO RIVER BASIN

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 1991 TO SEPTEMBER 1992

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 DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	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)
NOV 04...	1430	283	588	8.5	5.5	6.0	620	12.2	<10	--	--	250
MAR 18...	0830	485	523	8.1	7.5	4.0	609	11.4	30	K11	66	210
MAY 05...	1500	2640	230	7.8	27.0	12.5	610	10.2	22	K5	K28	110
AUG 05...	1400	573	456	8.4	30.5	20.0	620	9.4	18	K8	K16	200

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- 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 AS N) (70301)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)
NOV 04...	79	13	25	0.7	3.0	147	120	21	0.30	6.4	356	--
MAR 18...	64	13	18	0.5	2.1	138	110	11	0.30	5.8	308	0.240
MAY 05...	35	5.2	3.9	0.2	0.90	73	41	2.9	0.30	5.6	139	0.100
AUG 05...	63	10	19	0.6	2.5	120	93	18	0.40	7.6	286	--

DATE	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NITRITE DIS- SOLVED (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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
NOV 04...	0.069	<0.010	0.010	0.081	0.079	0.020	0.010	0.18	0.20	0.28	0.030
MAR 18...	0.230	0.010	0.020	0.250	0.250	0.030	0.040	0.27	0.30	0.55	0.090
MAY 05...	--	0.010	<0.010	0.110	0.100	0.040	0.030	--	<0.20	--	0.030
AUG 05...	--	0.010	<0.010	<0.050	<0.050	0.010	<0.010	--	<0.20	--	0.010

DATE	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)	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 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)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD) (01028)
NOV 04...	0.010	<0.010	1.6	60	<3	<2.0	81	740	360	7	2
MAR 18...	0.010	0.020	5.1	40	8	--	--	--	--	--	--
MAY 05...	0.030	<0.010	3.7	20	24	--	--	--	--	--	--
AUG 05...	0.020	<0.010	2.3	--	4	--	--	--	--	--	--

COLORADO RIVER BASIN

SAN JUAN RIVER BASIN

09363500 ANIMAS RIVER NEAR CEDAR HILL, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	CHROMIUM, RECOV. FM BOT- TOM MATERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT- TOM MATERIAL (UG/G) AS CO (01038)	COPPER, RECOV. FM BOT- TOM MATERIAL (UG/G) AS CU (01043)	IRON, RECOV. FM BOT- TOM MATERIAL (UG/G) AS FE (01170)	LEAD, RECOV. FM BOT- TOM MATERIAL (UG/G) AS PB (01052)	MANGANESE, RECOV. FM BOT- TOM MATERIAL (UG/G) (01053)	MERCURY, RECOV. FM BOT- TOM MATERIAL (UG/G) AS HG (71921)	ZINC, RECOV. FM BOT- TOM MATERIAL (UG/G) AS ZN (01093)	SEDIMENT, DISCHARGE, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 04...	3	<5	30	8300	60	610	0.03	290	20	15	84
MAR 18...	--	--	--	--	--	--	--	--	284	372	89
MAY 05...	--	--	--	--	--	--	--	--	115	820	41
AUG 05...	--	--	--	--	--	--	--	--	13	20	67

SAN JUAN RIVER BASIN

09364500 ANIMAS RIVER AT FARMINGTON, NM
(National stream-quality accounting network station)

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 64 in Farmington, and 1.5 mi upstream from mouth.
DRAINAGE AREA.--1,360 mi², approximately.

WATER-DISCHARGE RECORDS

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. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	334	406	358	311	300	382	738	2200	2550	1260	518	578
2	347	408	343	308	279	404	802	2290	2470	1150	470	567
3	330	406	359	308	282	467	664	2200	2370	957	456	530
4	275	363	355	321	284	611	696	2020	2320	871	392	492
5	249	347	366	340	282	540	716	1870	2420	845	373	430
6	272	379	361	331	277	531	752	1990	2860	839	363	383
7	276	395	343	318	279	481	755	2290	2820	849	373	353
8	230	364	331	290	278	473	817	2310	2700	841	423	314
9	219	373	326	276	307	452	896	2360	2470	820	388	287
10	210	346	340	265	317	404	984	2490	2240	818	366	266
11	231	375	392	290	334	369	1070	2040	2300	795	367	250
12	228	328	428	284	331	373	1190	1850	2390	913	429	247
13	247	328	391	285	342	475	1290	1830	2670	1020	379	246
14	241	316	361	276	347	517	1400	2000	2860	930	323	238
15	233	511	336	280	367	545	1540	2130	2640	787	325	205
16	216	724	303	269	330	549	1430	2120	2300	707	296	256
17	231	561	337	280	325	540	1310	2050	1930	657	271	278
18	244	508	353	291	314	514	1280	2110	1750	584	265	255
19	281	474	380	297	308	466	1300	2110	1890	541	230	436
20	269	425	367	278	292	423	1190	2250	2070	509	200	731
21	247	385	345	278	296	426	1080	3090	2150	497	186	639
22	231	373	330	286	330	421	986	3110	2060	487	174	535
23	251	368	340	283	357	435	928	2790	1930	475	189	433
24	288	353	321	281	360	392	868	2920	1780	539	535	396
25	267	382	300	280	350	313	897	3200	1710	894	966	361
26	263	375	327	273	352	323	993	3300	1620	1620	1000	347
27	270	378	297	276	342	326	1090	3640	1520	1180	979	339
28	278	355	290	274	352	373	1290	4040	1390	911	827	327
29	314	343	290	286	373	385	1650	3510	1310	729	710	314
30	367	339	311	291	---	447	2010	3170	1340	622	633	303
31	389	---	313	311	---	590	---	2820	---	560	616	---
TOTAL	8328	11988	10594	9017	9287	13947	32612	78100	64830	25207	14022	11336
MEAN	269	400	342	291	320	450	1087	2519	2161	813	452	378
MAX	389	724	428	340	373	611	2010	4040	2860	1620	1000	731
MIN	210	316	290	265	277	313	664	1830	1310	475	174	205
AC-FT	16520	23780	21010	17890	18420	27660	64690	154900	128600	50000	27810	22480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 1992, BY WATER YEAR (WY)

	MEAN	433	351	295	275	297	438	1002	2399	2980	1116	486	432
MAX	2726	1140	609	554	675	875	2489	6126	6930	3609	1971	2182	
(WY)	1942	1942	1987	1920	1920	1914	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1914 - 1992
ANNUAL TOTAL	247271	289268	
ANNUAL MEAN	677	790	876
HIGHEST ANNUAL MEAN			1733
LOWEST ANNUAL MEAN			239
HIGHEST DAILY MEAN	2780	May 21	11000
LOWEST DAILY MEAN	163	Sep 3	2.4
ANNUAL SEVEN-DAY MINIMUM	177	Aug 29	6.4
INSTANTANEOUS PEAK FLOW		4170	May 28
INSTANTANEOUS PEAK STAGE		7.46	May 28
INSTANTANEOUS LOW FLOW			1.0
ANNUAL RUNOFF (AC-FT)	490500	573800	634700
10 PERCENT EXCEEDS	1780	2140	2320
50 PERCENT EXCEEDS	368	390	373
90 PERCENT EXCEEDS	251	272	185

a-Site and datum then in use.

b-From rating curve extended above 10,000 ft³/s.

SAN JUAN RIVER BASIN

09364500 ANIMAS RIVER AT FARMINGTON, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1940 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1941 to current year.

WATER TEMPERATURE: December 1950 to current year.

SUSPENDED-SEDIMENT DISCHARGE: December 1950 to current year.

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.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,980 microsiemens, Aug. 19, 1944; minimum daily, 89 microsiemens, June 15, 1985.

WATER TEMPERATURE: Maximum daily, 32.0°C, Aug. 26, 1966 and July 16, 1977; minimum daily, 0.0°C, on many days during winter months each year.

SEDIMENT CONCENTRATION: Maximum daily mean, 36,800 mg/L, July 23, 1954; minimum daily mean, 1 mg/L on several days during 1956, 1958, and 1974.

SEDIMENT LOAD: Maximum daily, 337,000 tons, July 23, 1954; minimum daily, less than .50 ton on many days during 1955-57, 1959-60, 1963, 1972, 1974, and 1978.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 834 microsiemens, Jan. 15; minimum daily, 249 microsiemens, June 13.

WATER TEMPERATURE: Maximum daily, 27.0°C, Aug. 3; minimum daily, 0.5°C, Jan. 15.

SEDIMENT CONCENTRATION: Maximum daily mean, 8,480 mg/L, Apr. 2; minimum daily mean, 17 mg/L, July 2, Sept. 11.

SEDIMENT LOAD: Maximum daily, 21,700 tons, May 22; minimum daily, 11 tons, Sept. 11.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
JAN 15...	1400	255	834	8.3	1.5	0.5	12	643	14.3	<2	K9
MAR 18...	1200	501	578	8.2	11.5	8.0	110	626	11.2	K15	K39
MAY 05...	0800	1800	287	7.6	10.0	10.0	40	630	9.3	340	320
AUG 03...	1600	437	540	8.4	31.5	25.0	7.0	630	8.4	83	210

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)
JAN 15...	350	170	110	17	38	0.9	3.3	204	5	175
MAR 18...	250	100	76	14	24	0.7	1.8	178	0	146
MAY 05...	130	42	41	5.7	7.3	0.3	1.1	103	0	84
AUG 03...	250	110	78	12	28	0.8	2.5	137	13	134

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 CONSTITU- ENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	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)
JAN 15...	220	26	0.40	8.9	443	532	0.260	0.010	<0.010	0.270	0.270
MAR 18...	140	15	0.30	6.2	369	367	--	<0.010	<0.010	0.220	0.210
MAY 05...	55	3.3	<0.10	5.5	167	171	0.110	0.030	<0.010	0.140	0.120
AUG 03...	130	18	0.40	8.0	336	358	--	0.010	<0.010	<0.050	<0.050

SAN JUAN RIVER BASIN

09364500 ANIMAS RIVER AT FARMINGTON, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTH- TOTAL (MG/L AS P) (70507)	PHOS- PHORUS ORTH- DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
JAN 15...	0.030	<0.010	0.27	0.30	0.57	0.060	<0.010	0.020	<0.010	6	17
MAR 18...	0.030	0.020	0.17	0.20	0.42	0.230	<0.010	0.010	0.020	8	6
MAY 05...	0.060	<0.010	--	<0.20	--	0.050	<0.010	0.070	<0.010	23	6
AUG 03...	0.020	0.010	--	<0.20	--	<0.010	<0.010	0.010	<0.010	13	15

DATE	TIME	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)	LITHIUM, DIS- SOLVED (UG/L AS LI) (01130)	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)
JAN 15...	1400	<10	81	<3	61	<10	<1	<1	<1.0	1400	<6
MAR 18...	1200	10	82	<3	30	<10	<1	1	<1.0	850	<6
MAY 05...	0800	40	61	<3	11	<10	<1	<1	<1.0	400	<6
AUG 03...	1600	10	88	<3	42	<10	<1	<1	<1.0	1000	<6

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- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	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)
JAN 15...	1400	255	834	0.5	133	92	34	--	--	--	--
MAR 18...	1200	501	578	8.0	732	990	38	--	--	--	--
MAY 05...	0800	1800	287	10.0	5470	26600	2	--	--	--	--
AUG 03...	1600	437	540	25.0	30	35	77	--	--	--	--
24...	1700	791	--	20.0	6360	13600	100	56	71	85	97

CROSS SECTION ANALYSES, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	STREAM DEPTH, MEAN (FT) (00064)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
AUG 13...	1240	6	.80	5.9	608	8.08	22.6	7.8	309
13...	1241	18	.94	28	609	8.09	22.7	7.8	318
13...	1242	30	1.24	46	609	8.13	22.8	7.8	325
13...	1243	42	1.62	57	608	8.16	22.8	7.8	317
13...	1244	54	1.54	59	608	8.18	22.8	7.8	317
13...	1245	66	1.78	54	609	8.18	22.7	7.8	315
13...	1246	78	1.52	42	609	8.19	22.8	7.8	316
13...	1247	90	1.10	34	609	8.20	23.0	7.8	395
13...	1248	102	1.60	37	610	8.20	23.3	7.8	303
13...	1249	114	1.62	7.1	614	8.19	23.4	7.5	310

SAN JUAN RIVER BASIN

09364500 ANIMAS RIVER AT FARMINGTON, NM -- Continued

WATER-QUALITY RECORDS

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
ONCE-DAILY

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
623	595	610	613	616	716	570	272	296	433	523	562
590	607	610	609	636	681	566	276	296	449	535	---
581	587	608	567	661	---	517	274	301	411	544	519
581	601	605	568	647	---	516	299	301	403	536	527
617	597	620	575	659	---	446	302	253	401	572	558
620	613	650	634	---	---	490	---	293	414	554	557
608	598	605	648	643	657	446	---	250	414	515	547
629	611	602	---	636	655	448	266	269	413	555	552
629	605	743	646	645	654	---	---	---	---	538	557
633	633	663	655	---	665	---	290	269	409	553	568
635	602	663	652	---	---	---	299	291	430	586	632
670	597	780	664	---	705	349	318	295	470	606	590
---	---	634	648	---	704	345	317	249	---	608	608
---	---	616	662	---	653	331	284	---	---	603	---
660	643	634	617	---	629	316	274	252	456	581	---
669	660	612	636	697	593	351	276	270	478	547	---
615	643	611	632	671	582	353	278	---	520	568	---
616	646	---	---	666	612	351	287	---	510	578	---
621	643	---	---	718	616	---	286	278	528	---	---
643	605	605	623	668	588	---	---	282	518	---	---
639	610	624	635	650	604	---	---	266	---	---	550
633	610	626	---	646	558	405	---	297	---	---	522
661	604	---	---	668	577	436	---	305	---	---	589
629	610	634	---	680	561	434	311	299	476	---	573
---	---	627	---	693	581	363	268	297	480	402	599
---	---	618	633	694	591	385	265	339	---	432	588
---	---	607	649	686	561	279	256	339	---	429	570
626	---	609	638	680	600	---	298	339	473	428	570
632	---	605	---	671	---	274	298	334	476	498	575
584	615	610	631	---	---	272	288	334	460	484	586
587	---	607	609	---	---	---	287	---	470	502	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
ONCE-DAILY

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
17.0	7.0	2.0	3.0	4.0	12.0	14.0	15.0	15.0	21.0	26.0	19.0
17.0	7.0	2.0	3.0	4.0	11.0	14.0	15.0	15.0	21.0	26.0	---
16.0	7.0	2.0	3.0	4.0	---	18.0	15.0	15.0	20.0	27.0	21.0
16.0	7.0	2.0	4.0	3.0	---	15.0	15.0	17.0	19.0	25.0	22.0
16.0	7.0	2.0	5.0	3.0	---	17.0	15.0	14.0	23.0	25.0	20.0
17.0	11.0	2.0	4.0	---	---	15.0	---	17.0	24.0	24.0	20.0
17.0	12.0	3.0	4.0	6.0	---	16.0	---	13.0	24.0	24.5	19.0
18.0	11.0	4.0	---	8.0	---	17.0	16.0	14.0	24.0	26.0	19.0
18.0	8.0	4.0	3.0	8.0	---	---	---	---	---	18.0	19.0
19.0	8.0	3.0	3.0	---	---	---	13.0	16.0	21.0	20.0	14.5
19.0	8.0	3.0	3.0	---	---	---	15.0	16.0	24.0	20.0	16.0
19.0	8.0	3.0	3.0	---	---	16.0	17.0	14.0	20.0	19.0	16.0
---	---	3.0	3.0	---	---	14.0	18.0	17.0	---	19.0	16.0
---	---	3.0	2.0	---	---	14.0	18.0	---	---	19.5	---
19.0	8.0	4.0	1.0	---	---	13.0	18.0	18.0	25.0	20.0	---
19.0	8.0	3.0	1.0	5.0	---	12.0	18.0	17.0	25.0	18.5	---
18.0	8.0	3.0	1.0	6.0	---	10.0	17.0	---	25.0	18.0	---
18.0	8.0	---	---	6.0	---	9.0	17.0	---	25.0	18.0	---
18.0	8.0	---	---	7.0	---	---	16.0	19.0	25.0	---	---
17.0	8.0	3.0	3.0	8.0	11.0	---	---	19.0	---	---	---
17.0	8.0	3.0	3.0	9.0	11.0	---	---	20.0	---	---	20.0
15.0	8.0	3.0	---	9.0	11.0	9.0	---	20.0	---	---	20.0
15.0	8.0	---	---	10.0	9.0	10.0	---	20.0	---	---	20.0
15.0	8.0	3.0	---	10.0	8.5	12.0	15.0	20.0	20.0	20.0	20.0
---	---	2.0	---	10.0	8.0	15.0	15.0	20.0	19.0	21.0	20.0
---	---	3.0	3.0	11.0	8.5	17.0	14.0	20.0	---	21.0	19.0
---	---	3.0	3.0	11.0	10.0	17.0	14.0	20.0	---	21.0	19.0
8.0	---	3.0	3.0	12.0	9.0	---	14.0	21.0	25.0	21.0	19.0
7.0	---	4.0	---	12.0	---	16.0	14.0	21.0	25.0	20.0	19.0
7.0	2.0	3.0	4.0	---	---	16.0	15.0	21.0	25.5	20.0	19.0
7.0	---	3.0	4.0	---	---	---	15.0	---	25.0	19.0	---

SAN JUAN RIVER BASIN

09364500 ANIMAS RIVER AT FARMINGTON, NM -- Continued

WATER-QUALITY RECORDS

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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	31	28	108	118	130	126	132	111	108	87	178	183
2	45	42	111	122	116	107	113	94	110	83	162	176
3	35	32	103	113	149	145	121	100	130	99	187	240
4	35	26	96	94	174	167	103	88	99	76	726	1200
5	34	23	100	93	143	141	92	85	143	108	622	907
6	29	22	112	115	145	141	98	87	154	115	569	818
7	29	22	114	122	96	89	87	75	110	83	501	650
8	29	18	99	97	61	55	81	63	81	61	597	769
9	35	21	84	85	75	66	82	61	75	62	693	847
10	39	22	136	130	437	401	77	55	85	73	481	524
11	42	26	102	103	617	674	124	98	88	79	443	439
12	47	29	37	33	645	754	113	87	87	78	545	548
13	47	32	28	25	104	111	113	87	92	85	379	486
14	41	27	29	25	77	75	119	88	90	84	594	833
15	35	22	318	599	87	79	95	76	279	280	891	1310
16	43	25	900	1760	77	63	59	42	278	248	692	1030
17	67	42	917	1390	78	71	63	48	158	139	516	754
18	72	48	758	1040	80	76	72	56	111	94	395	549
19	81	62	436	563	81	83	101	82	119	99	308	389
20	78	57	136	157	67	67	92	70	218	170	231	264
21	68	45	108	112	64	59	84	64	321	256	188	217
22	67	42	118	119	61	54	87	67	280	249	229	260
23	72	49	115	114	94	86	91	69	268	259	157	184
24	141	111	143	136	95	83	94	72	587	579	266	281
25	146	105	179	185	79	64	91	69	779	737	224	189
26	146	103	172	174	85	75	99	73	271	258	266	232
27	152	111	170	173	73	58	94	70	210	194	207	182
28	156	117	168	161	82	64	99	73	177	168	313	320
29	161	137	171	158	91	71	91	71	181	183	348	362
30	160	158	179	164	97	81	96	75	---	---	412	497
31	133	139	---	---	90	76	97	81	---	---	418	668
TOTAL	---	1743	---	8280	---	4262	---	2337	---	5086	---	16308

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	5460	11100	637	3790	145	1000	23	81	41	57	43	67
2	8480	18700	441	2720	126	841	17	53	36	45	33	50
3	1230	2210	293	1740	112	720	29	74	32	40	45	64
4	612	1150	333	1810	100	626	27	63	36	38	37	49
5	658	1280	264	1330	163	1060	47	107	48	48	34	40
6	945	1920	210	1130	112	861	36	82	35	34	29	30
7	834	1700	251	1560	121	923	48	109	30	30	38	36
8	716	1580	213	1330	89	648	46	105	59	66	33	28
9	838	2030	199	1340	74	496	45	100	117	123	27	21
10	860	2290	642	4340	80	483	45	100	49	48	18	13
11	835	2420	383	2130	81	503	598	1290	245	296	17	11
12	911	2930	248	1240	84	539	1330	3260	882	1040	29	19
13	956	3310	220	1090	146	1100	622	1710	427	445	20	13
14	793	3000	163	871	221	1710	226	580	106	92	20	13
15	706	2930	87	499	177	1270	84	178	122	107	24	13
16	445	1720	72	414	119	742	87	167	175	140	35	24
17	320	1130	80	442	91	478	96	170	134	98	32	24
18	359	1240	140	811	78	368	83	132	99	71	29	20
19	387	1360	220	1260	104	531	95	139	84	52	133	181
20	343	1110	421	2870	110	616	97	134	81	43	311	619
21	295	860	1950	16500	90	520	85	114	77	39	242	420
22	256	681	2580	21700	32	175	80	106	68	32	195	282
23	351	877	2010	15200	22	115	80	102	58	30	135	158
24	304	712	1440	11400	24	116	182	272	169	284	102	109
25	224	542	1290	11200	24	112	559	1460	251	676	83	81
26	216	580	1040	9290	20	89	2800	12700	171	470	44	42
27	487	1460	259	2550	18	74	862	2860	134	356	53	48
28	639	2220	172	1880	18	69	131	333	125	279	40	35
29	660	2970	132	1250	31	114	108	212	88	170	29	24
30	685	3710	181	1550	56	203	81	136	69	118	38	31
31	---	---	201	1530	---	---	64	97	68	113	---	---
TOTAL	---	79722	---	126767	---	17102	---	27026	---	5480	---	2565

TOTAL LOAD FOR YEAR: 296678 TONS.

09365000 SAN JUAN RIVER AT FARMINGTON, NM

LOCATION.--Lat 36°43'22", long 108°13'30", in NW/4 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. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	738	1100	939	838	970	881	1310	5440	6590	2220	965	1160
2	748	1100	939	802	1080	936	1360	5520	6520	1890	896	1090
3	785	1070	914	781	1170	1050	1150	5480	6490	1720	865	1060
4	710	1050	920	783	1150	1450	1100	5360	6420	1590	799	956
5	688	1060	954	828	1050	1280	1170	5280	6570	1540	788	834
6	716	1100	947	837	978	1230	1240	5430	7170	1530	718	780
7	707	1090	941	878	977	1160	1430	5720	7080	1440	764	751
8	673	1060	940	775	954	1170	1520	5300	6980	1430	824	759
9	712	1070	940	738	969	1130	1580	5380	6700	1420	771	694
10	717	1050	932	699	1060	1010	1710	5860	6060	1440	764	668
11	769	1150	1080	760	1200	983	1810	5370	5580	1410	733	641
12	782	1090	1240	789	1170	973	1910	5270	4950	1700	836	627
13	885	997	1100	800	1180	1020	2060	5140	5230	1930	770	628
14	855	1000	923	794	1280	1060	2580	5310	5480	1570	683	667
15	864	1320	814	794	1150	1110	3110	5330	5160	1290	695	640
16	849	1710	752	773	1050	1060	3880	5290	4210	1160	702	658
17	831	1490	776	785	939	1050	4390	5160	3580	1060	670	675
18	865	1410	839	824	902	1000	5010	5140	3460	938	652	677
19	931	1250	1010	821	884	960	5440	5180	3560	859	642	967
20	914	1110	987	784	890	926	5140	5500	3650	815	614	1320
21	876	999	881	779	718	947	4940	6830	3720	758	595	1200
22	854	940	848	768	891	951	4930	6760	3630	733	602	1010
23	907	916	849	754	1200	964	4980	6270	3440	811	678	882
24	948	912	804	755	1160	938	4860	6440	3110	1010	1620	843
25	923	923	774	770	965	877	4090	6820	3090	1600	2590	807
26	915	925	803	762	871	862	4210	7080	2960	2680	1890	818
27	938	930	770	775	799	895	4310	7760	2850	1870	1770	854
28	1000	898	782	772	790	965	4540	8210	2710	1510	1500	832
29	1100	901	779	820	861	949	4950	7670	2610	1330	1320	795
30	1110	919	819	883	---	973	5230	7340	2420	1090	1210	761
31	1130	---	847	961	---	1130	---	6920	---	1010	1210	---
TOTAL	26440	32540	27843	24682	29258	31890	95940	185560	141980	43354	30136	25054
MEAN	853	1085	898	796	1009	1029	3198	5986	4733	1399	972	835
MAX	1130	1710	1240	961	1280	1450	5440	8210	7170	2680	2590	1320
MIN	673	898	752	699	718	862	1100	5140	2420	733	595	627
AC-FT	52440	64540	55230	48960	58030	63250	190300	368100	281600	85990	59770	49690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931-1992, BY WATER YEAR (WY)

MEAN	1216	1007	988	1019	1153	1531	3082	5033	5371	2240	1277	1140
MAX	7271	3549	3381	3271	3032	4287	9133	18830	14990	8639	4938	3331
(WY)	1942	1987	1966	1986	1987	1960	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 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1931-1992

ANNUAL TOTAL	504381	694677	
ANNUAL MEAN	1382	1898	2089
HIGHEST ANNUAL MEAN			5054
LOWEST ANNUAL MEAN			728
HIGHEST DAILY MEAN	4850	May 15	30000
LOWEST DAILY MEAN	473	Sep 3	27
ANNUAL SEVEN-DAY MINIMUM	488	Aug 28	37
INSTANTANEOUS PEAK FLOW			8290
INSTANTANEOUS PEAK STAGE			5.61
INSTANTANEOUS LOW FLOW			14
ANNUAL RUNOFF (AC-FT)	1000000	1378000	1513000
10 PERCENT EXCEEDS	3070	5300	4960
50 PERCENT EXCEEDS	964	1000	1110
90 PERCENT EXCEEDS	652	752	439

a-Site and datum then in use.
b-From rating curve extended above 37,000 ft/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 14080105, on right bank at Colorado-New Mexico State line, 0.2 mi downstream from Ponds Arroyo, 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.--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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	5.9	9.8	7.0	14	17	131	137	142	25	4.3	10
2	6.6	5.4	8.0	7.0	14	18	112	107	128	30	4.3	9.7
3	5.5	6.1	8.0	7.0	17	25	85	90	129	26	4.2	7.9
4	5.7	5.7	8.5	8.0	14	27	96	74	123	21	4.1	5.8
5	5.3	5.6	9.0	7.0	13	27	93	70	158	19	3.9	4.6
6	5.4	5.8	10	8.0	13	27	107	57	204	18	3.3	4.0
7	5.7	5.7	10	8.0	12	28	110	64	166	18	3.0	3.4
8	5.2	5.6	10	7.5	13	35	127	60	145	21	2.5	3.0
9	6.0	5.7	10	7.0	14	32	147	71	117	20	1.9	2.8
10	4.1	6.0	10	7.0	14	29	168	119	84	19	1.6	2.0
11	4.1	5.1	10	7.5	15	27	159	68	75	21	1.1	2.1
12	3.8	4.7	11	7.5	15	27	195	52	69	50	2.0	2.0
13	4.1	4.9	9.9	7.0	17	29	203	60	73	55	1.7	1.6
14	4.6	6.6	9.2	7.0	19	36	223	74	63	31	1.6	.94
15	4.4	20	9.0	5.0	15	44	198	77	56	20	1.6	.88
16	3.8	22	10	6.0	15	45	152	68	45	17	2.0	2.0
17	4.5	15	9.0	7.0	12	47	103	69	35	12	1.5	1.6
18	4.2	13	9.7	7.0	12	44	92	61	43	9.0	1.2	1.3
19	4.1	11	12	7.0	13	38	81	69	44	9.8	1.2	8.0
20	4.1	9.4	11	7.0	13	35	67	107	51	11	1.1	23
21	4.2	8.9	10	7.0	14	41	59	226	64	12	.56	24
22	4.3	8.9	11	7.0	15	43	59	163	60	10	.81	17
23	4.4	8.0	10	7.0	15	48	57	107	56	9.3	2.2	13
24	4.5	8.0	10	7.5	14	38	54	192	53	15	7.5	10
25	4.6	8.5	10	8.0	14	42	59	206	66	36	6.7	9.6
26	4.7	8.3	9.0	9.0	14	47	61	268	52	38	16	9.5
27	4.8	8.5	8.0	10	14	55	65	329	39	17	21	9.8
28	5.3	8.6	8.0	11	14	67	79	353	31	12	16	7.9
29	5.4	9.2	9.0	11	15	79	114	266	23	9.7	13	7.3
30	6.0	9.2	9.0	12	---	72	131	221	21	6.6	11	7.6
31	6.6	---	8.0	13	---	108	---	172	---	5.4	9.7	---
TOTAL	152.3	255.3	296.1	244.0	413	1277	3387	4057	2415	623.8	152.57	212.32
MEAN	4.91	8.51	9.55	7.87	14.2	41.2	113	131	80.5	20.1	4.92	7.08
MAX	6.6	22	12	13	19	108	223	353	204	55	21	24
MIN	3.8	4.7	8.0	5.0	12	17	54	52	21	5.4	.56	.88
AC-FT	302	506	587	484	819	2530	6720	8050	4790	1240	303	421

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1992, BY WATER YEAR (WY)

	MEAN	14.2	11.9	12.1	11.5	16.8	34.3	108	111	66.7	20.1	12.0	11.4
MAX	260	99.2	53.9	38.3	53.9	106	363	506	306	99.4	65.1	126	
(WY)	1942	1942	1987	1942	1924	1987	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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1921 - 1992

ANNUAL TOTAL	7786.81	13485.39	
ANNUAL MEAN	21.3	36.8	35.8
HIGHEST ANNUAL MEAN			109
LOWEST ANNUAL MEAN			4.44
HIGHEST DAILY MEAN	144	Apr 7	1120
LOWEST DAILY MEAN	.94	Sep 3	a.00
ANNUAL SEVEN-DAY MINIMUM	1.1	Aug 28	.00
INSTANTANEOUS PEAK FLOW			404
INSTANTANEOUS PEAK STAGE			4.94
ANNUAL RUNOFF (AC-FT)	15450	26750	25920
10 PERCENT EXCEEDS	63	107	86
50 PERCENT EXCEEDS	12	12	12
90 PERCENT EXCEEDS	3.0	4.1	1.6

a-No flow at times in many years.

b-Present datum, from rating curve extended above 750 ft³/s, on basis of slope-area measurement of peak flow.

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 upstream between two culvert barrels that run under U.S. Highway 550 in Farmington, and 1,000 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. March 17, 1938 to December 6, 1990 at site 1,300 ft upstream at different datum.

REMARKS.--Records poor. Diversions for irrigation of about 24,000 acres upstream from station. Several observations of water temperature were made during the year. No flow at times.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.24	e9.8	e9.6	19	6.5	157	55	126	e.30	.04	.05
2	.09	.25	e10	e9.4	21	7.0	125	40	97	e.27	.03	.02
3	.09	.24	e9.8	e9.2	21	7.8	68	27	94	e.24	.03	.02
4	.10	.25	e10	e10	22	14	66	16	98	e.21	.02	.02
5	.11	.28	e9.8	e9.8	19	12	74	7.0	106	e.18	.02	.02
6	.13	.29	e9.8	e10	19	12	73	5.7	213	e.15	.04	.02
7	.13	.28	e10	e9.4	18	10	82	3.6	183	e.11	.04	.02
8	.14	.28	e10	e8.8	18	11	94	3.5	142	e.08	.02	.02
9	.14	.32	e9.8	e9.0	18	16	148	18	109	.16	.02	.01
10	.16	.38	e10	e9.2	18	14	143	86	57	.18	.02	.01
11	.16	.38	18	e9.3	17	12	130	33	35	.19	.01	.01
12	.17	.38	e11	e9.4	19	10	145	13	27	.35	.01	.00
13	.16	.43	e10	e9.4	21	9.8	176	6.4	19	16	.01	.00
14	.17	3.8	e11	e8.0	29	10	173	5.9	12	9.8	.01	.00
15	.17	81	e10	e8.4	25	17	175	17	8.4	3.4	.00	.01
16	.18	55	e9.8	e8.2	20	22	102	18	5.2	1.2	.00	.02
17	.18	27	e10	e9.2	18	20	54	11	4.6	.25	.02	.01
18	.18	20	e11	e9.4	17	22	29	11	2.8	.10	.03	.01
19	.19	12	22	e9.6	16	19	23	10	3.0	.09	.02	26
20	.17	10	e13	e10	16	15	16	20	2.1	.07	.01	7.4
21	.17	9.6	12	e10	17	14	6.6	152	2.1	.06	.00	9.8
22	.18	9.3	e10	e11	18	18	4.5	168	3.0	.06	.02	.96
23	.21	8.3	e10	e11	18	18	3.2	86	1.4	.09	.03	.09
24	.21	9.4	e9.8	e13	17	17	2.1	110	.91	.11	17	.03
25	.21	10	e9.8	e12	17	13	1.9	215	1.1	.13	2.0	.02
26	.21	9.5	e10	e13	16	14	1.8	282	.91	26	.42	.02
27	.22	8.9	e9.8	14	16	16	3.0	372	.53	5.9	.04	.02
28	.23	8.4	e9.8	14	14	31	2.0	590	.41	.73	.03	.02
29	.22	9.1	e9.6	15	8.9	51	17	386	.35	.09	.03	.01
30	.27	9.9	11	16	---	42	45	285	e.33	.06	.03	.00
31	.27	---	e10	17	---	71	---	180	---	.05	.03	---
TOTAL	5.27	305.20	336.6	331.3	532.9	572.1	2140.1	3233.1	1355.14	66.61	20.03	44.64
MEAN	.17	10.2	10.9	10.7	18.4	18.5	71.3	104	45.2	2.15	.65	1.49
MAX	.27	81	22	17	29	71	176	590	213	26	17	26
MIN	.05	.24	9.6	8.0	8.9	6.5	1.8	3.5	.33	.05	.00	.00
AC-FT	10	605	668	657	1060	1130	4240	6410	2690	132	40	89
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1992, BY WATER YEAR (WY)

	MEAN	21.6	12.6	13.3	16.7	23.7	31.8	90.5	67.8	34.0	9.29	12.2	11.7
MAX	537	141	73.1	100	89.2	157	408	783	252	117	64.5	170	
(WY)	1942	1987	1987	1979	1979	1987	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1938 - 1992
ANNUAL TOTAL	3964.78	8942.99	
ANNUAL MEAN	10.9	24.4	28.6
HIGHEST ANNUAL MEAN			134
LOWEST ANNUAL MEAN			.48
HIGHEST DAILY MEAN	264 Sep 11	590 May 28	2370 May 13 1941
LOWEST DAILY MEAN	.00 Sep 21	.00 Aug 15	.00 Mar 1 1938
ANNUAL SEVEN-DAY MINIMUM	.00 Sep 21	.01 Sep 9	.00 Mar 1 1938
INSTANTANEOUS PEAK FLOW			b5770 Aug 21 1990
INSTANTANEOUS PEAK STAGE			a13.60 Aug 21 1990
ANNUAL RUNOFF (AC-FT)	7860	17740	20730
10 PERCENT EXCEEDS	28	72	65
50 PERCENT EXCEEDS	2.3	9.4	3.8
90 PERCENT EXCEEDS	.07	.02	.00

a-From floodmarks.

b-From rating curve extended on basis of slope-area measurement of peak flow.

SAN JUAN RIVER BASIN

09367540 SAN JUAN RIVER NEAR FRUITLAND, NM

WATER-QUALITY RECORDS

LOCATION.--Lat 36°44'25", long 108°24'09", in NWSE¼ 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.--Discharged estimated from station 09365000 San Juan River at Farmington, which is approximately 11 miles upstream.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)
NOV 06...	0930	E1120	567	8.1	10.5	6.5	83	636	10.8
JAN 15...	1200	E1240	680	7.7	0.5	0.5	25	642	13.0
MAR 19...	1500	E1100	548	8.2	14.5	9.5	7.9	637	11.6
MAY 06...	1800	E5300	310	7.9	19.5	12.5	31	640	9.3
JUL 20...	1530	E600	576	8.0	35.0	24.0	99	630	7.6
AUG 12...	1600	E600	--	7.8	31.0	25.0	550	640	6.6

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)
NOV 06...	250	130	77	15	47	1	3.0	153	0
JAN 15...	240	110	76	13	45	1	2.5	164	0
MAR 19...	200	83	62	12	33	1	2.0	148	0
MAY 06...	120	31	37	6.2	15	0.6	1.7	106	0
JUL 20...	210	95	69	10	40	1	2.5	145	0
AUG 12...	230	96	76	9.5	49	1	3.2	162	0

DATE	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS 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, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)
NOV 06...	125	200	14	0.30	9.4	495	441
JAN 15...	134	180	17	0.30	8.9	387	423
MAR 19...	121	140	13	0.30	8.0	348	343
MAY 06...	87	63	3.1	0.20	8.9	171	187
JUL 20...	119	140	13	0.30	7.4	364	353
AUG 12...	133	180	18	0.40	7.7	425	423

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, 6.6 mi southwest of Waterflow, 7.2 mi southeast of Shiprock, and at mile 4.5.

DRAINAGE AREA.--4,350 mi².

PERIOD OF RECORD.--Water years 1959-69 (annual maximum only), November 1975 to current year.

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.--Water-discharge 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	8.5	18	e3.0	e.00	9.4	24	1.0	.00	17	e.00	e.00
2	6.4	7.1	e1.3	e1.5	e6.5	7.5	12	.00	.00	17	e.00	e.00
3	6.4	7.6	e1.2	e.50	279	6.7	5.4	.00	.00	17	e.00	e.00
4	6.0	7.1	e1.1	e.00	342	6.3	4.4	.00	.00	17	e.00	e.00
5	6.4	7.6	e1.0	e.00	552	6.3	4.0	.00	.00	17	e.00	e.00
6	6.7	7.1	e1.0	e.00	249	6.1	4.1	.00	.00	18	e.00	e.00
7	8.5	7.1	e.50	e.00	499	5.7	4.2	.00	.00	18	e.00	e.00
8	9.0	7.1	e.00	e.00	248	5.9	4.2	.00	.00	18	e.00	e.00
9	7.6	7.6	e.50	e.00	92	5.8	4.1	.00	.00	19	e.00	e.00
10	7.1	7.6	e1.0	e.50	130	6.0	4.2	14	.00	18	e.00	e.00
11	6.7	12	1.4	e.00	179	6.0	6.8	41	.00	19	e.00	e.00
12	7.1	943	e26	e.00	153	6.1	9.4	6.6	4.4	290	19	e.00
13	7.6	463	1130	e.50	130	5.9	10	2.1	3.5	1630	13	e.00
14	6.7	179	356	e1.0	108	6.1	11	1.4	4.3	213	2.6	e.00
15	7.6	239	470	e1.0	631	6.2	12	.77	4.9	60	2.0	e.00
16	9.0	1400	22	e1.0	93	6.5	11	.00	5.2	38	1.4	e.00
17	7.6	1730	6.4	e1.0	38	6.7	9.7	.00	5.6	31	1.9	e.00
18	9.0	1320	6.5	e.50	53	6.5	11	.00	5.8	23	2.0	e.00
19	9.5	1210	13	e.50	20	6.5	11	.00	5.8	21	1.0	e.00
20	7.6	501	483	e.50	19	6.7	10	.00	5.9	20	.00	e110
21	9.0	159	529	e.00	11	5.3	13	.00	5.7	19	e.00	e40
22	9.0	100	201	e.00	8.0	4.2	13	.79	5.9	19	e.00	e10
23	8.0	56	155	e.00	6.7	4.4	11	1.6	6.6	18	7.3	e7.0
24	7.6	38	124	e.00	4.3	5.4	11	.88	6.8	88	592	e5.0
25	7.6	27	75	e.00	3.6	5.4	11	.00	6.9	237	1510	e4.5
26	8.5	23	30	e.00	3.5	5.5	11	.00	8.8	321	e200	e5.0
27	8.0	25	24	e.00	3.9	6.0	11	.00	15	e25	e20	e5.5
28	8.0	32	18	e.00	12	6.4	11	.00	16	e5.0	e4.0	e6.0
29	8.0	25	11	e.00	11	5.7	4.4	.00	17	e1.5	e2.0	e6.5
30	26	26	e8.0	e.00	---	7.0	1.8	.00	17	e.00	e1.0	e6.0
31	12	---	e5.0	e.00	---	6.7	---	.00	---	e.00	e.50	---
TOTAL	260.6	8582.4	3319.90	11.50	3885.50	190.9	270.7	70.14	151.10	3254.50	2379.70	205.50
MEAN	8.41	286	107	.37	134	6.16	9.02	2.26	5.04	105	76.8	6.85
MAX	26	1730	1130	3.0	631	9.4	24	41	17	1630	1510	110
MIN	6.0	7.1	.00	.00	.00	4.2	1.8	.00	.00	.00	.00	.00
AC-FT	517	17020	6590	23	7710	379	537	139	300	6460	4720	408

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1976	42.8	117	1987	.076	1989
1977	63.3	430	1988	.35	1985
1978	22.4	107	1992	.14	1986
1979	26.7	217	1979	.16	1986
1980	75.8	277	1979	6.35	1990
1981	31.8	177	1987	4.88	1991
1982	28.5	161	1985	.13	1991
1983	33.2	110	1990	2.26	1992
1984	21.5	136	1988	.83	1989
1985	60.9	487	1986	.000	1987
1986	103	434	1988	7.09	1981
1987	60.1	272	1988	6.00	1989

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1976 - 1992
ANNUAL TOTAL	27125.22	22582.44	
ANNUAL MEAN	74.3	61.7	49.1
HIGHEST ANNUAL MEAN			97.5
LOWEST ANNUAL MEAN			20.8
HIGHEST DAILY MEAN	1730	1730	3870
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		3750	7300
INSTANTANEOUS PEAK STAGE		8.28	a7.88
ANNUAL RUNOFF (AC-FT)	53800	44790	35540
10 PERCENT EXCEEDS	186	114	58
50 PERCENT EXCEEDS	7.1	6.4	16
90 PERCENT EXCEEDS	.03	.00	.33

a-Site and datum then in use.

SAN JUAN RIVER BASIN

09368000 SAN JUAN RIVER AT SHIPROCK, NM

(National stream-quality accounting network, surveillance network, and radiochemical network station)

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	711	1020	1060	1050	1180	1060	1930	5130	7240	2380	867	1570
2	667	1050	1050	963	1240	1110	2190	5370	6950	2100	697	1160
3	604	1000	1080	845	1540	1170	1940	5300	6640	1750	703	1010
4	588	985	1110	821	1630	1560	1780	5240	6480	1600	594	991
5	532	1010	1080	910	1640	1420	1770	5080	6400	1470	579	924
6	553	1120	1090	929	1370	1420	1860	5200	6910	1440	566	821
7	625	1200	1070	1050	1340	1340	2020	5630	7060	1370	585	808
8	659	1190	1110	891	1260	1290	2280	5760	7020	1360	557	723
9	621	1350	1100	888	1210	1350	2390	5710	6720	1400	564	670
10	592	1350	1090	806	1310	1190	2460	6950	6120	1500	540	621
11	601	1500	1200	788	1450	1150	2560	6030	5540	1480	514	565
12	608	1860	1520	780	1490	1060	2580	5700	5070	1620	515	537
13	651	1620	2100	809	1470	1070	2650	5510	4800	2840	525	523
14	660	1420	1550	856	1660	1130	2880	5540	5020	2370	506	597
15	633	1640	1310	854	1790	1220	3060	5730	4870	1760	479	596
16	606	2510	1040	812	1390	1260	3350	5700	4190	1210	494	603
17	580	2730	956	819	1260	1260	3940	5540	3620	1020	472	572
18	596	2680	1090	886	1160	1280	4640	5560	3480	773	436	558
19	625	2670	1290	925	1050	1260	5120	5590	3490	655	378	963
20	632	2250	1420	903	1050	1150	4970	5730	3600	648	348	1890
21	629	1780	1300	901	972	1270	4770	7100	3580	585	328	1960
22	610	1170	1240	881	883	1250	4620	7900	3540	505	326	1590
23	626	1070	1070	856	1220	1290	4620	7330	3440	548	363	1330
24	673	1050	967	892	1290	1200	4490	7020	3240	685	1140	1060
25	755	1050	900	849	1120	1150	3870	7390	3150	1210	3300	1000
26	752	1000	868	867	1020	1090	3760	7570	3060	3090	2970	884
27	733	1000	868	957	990	1190	3860	8190	3010	2860	2530	925
28	894	1010	857	994	971	1310	4070	9290	2970	2330	2120	916
29	1050	958	870	952	1040	1470	4490	8970	2800	1730	1660	934
30	1060	1010	992	1040	---	1460	4950	8130	2690	1430	1240	756
31	1060	---	1040	1120	---	1580	---	7590	---	1020	1360	---
TOTAL	21186	43253	35288	27894	36996	39010	99870	198480	142700	46739	28256	28057
MEAN	683	1442	1138	900	1276	1258	3329	6403	4757	1508	911	935
MAX	1060	2730	2100	1120	1790	1580	5120	9290	7240	3090	3300	1960
MIN	532	958	857	780	883	1060	1770	5080	2690	505	326	523
AC-FT	42020	85790	69990	55330	73380	77380	198100	393700	283000	92710	56050	55650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1992, BY WATER YEAR (WY)

	1290	1112	1078	1090	1247	1599	3106	4928	5302	2244	1330	1201
MEAN	8370	3997	3420	3169	3314	4443	9275	19790	15540	8869	5171	3329
MAX	1942	1987	1966	1966	1987	1960	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1935 - 1992
ANNUAL TOTAL	511735	747729	2128
ANNUAL MEAN	1402	2043	5324
HIGHEST ANNUAL MEAN			702
LOWEST ANNUAL MEAN			1941
HIGHEST DAILY MEAN	4720	May 15	33300
LOWEST DAILY MEAN	258	Aug 23	8.0
ANNUAL SEVEN-DAY MINIMUM	277	Aug 21	13
INSTANTANEOUS PEAK FLOW			80000
INSTANTANEOUS PEAK STAGE		7.29	a5.70
INSTANTANEOUS LOW FLOW		May 28	b8.0
ANNUAL RUNOFF (AC-FT)	1015000	1483000	1542000
10 PERCENT EXCEEDS	2810	5410	4970
50 PERCENT EXCEEDS	1060	1200	1160
90 PERCENT EXCEEDS	561	600	444

a-Site and datum then in use.

b-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.--Interruptions in record were due to probes silted, probes out of water, or malfunction of recording instruments.

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.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,770 microsiemens, Sept. 13; minimum daily, 258 microsiemens, June 10.

WATER TEMPERATURE: Maximum daily, 27.6°C, July 14; minimum daily, 0.0°C on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
JAN 14...	1300	902	758	7.9	1.5	1.0	36	640	13.5	K7	K60	270
MAY 06...	1400	5270	313	8.0	22.5	12.0	43	640	9.1	180	350	130
JUN 09...	1500	6840	306	7.6	28.0	14.0	57	640	8.9	150	190	120
AUG 04...	1230	589	613	8.2	36.0	22.5	74	640	7.2	220	300	240

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)	CAR- BONATE WATER DIS IT FIELD CO3 (00452)	ALKA- LITY WAT DIS TOT IT FIELD CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
JAN 14...	120	81	15	52	1	2.6	181	0	148	210	19
MAY 06...	37	39	6.6	16	0.6	1.7	107	0	88	68	3.2
JUN 09...	34	37	6.8	15	0.6	<0.10	106	0	87	61	4.5
AUG 04...	100	74	12	43	1	2.6	160	2	135	160	16

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 TOTAL (MG/L AS N) (00620)	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)
JAN 14...	0.30	9.1	470	481	0.400	0.380	0.020	0.010	0.420	0.390	0.050
MAY 06...	<0.10	8.5	185	197	0.080	--	0.020	<0.010	0.100	0.090	0.020
JUN 09...	0.20	8.6	183	--	0.004	--	0.050	<0.010	0.054	0.065	0.070
AUG 04...	0.30	9.2	399	399	0.090	--	0.010	<0.010	0.100	0.093	<0.010

SAN JUAN RIVER BASIN

09368000 SAN JUAN RIVER AT SHIPROCK, NM - Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	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)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
JAN 14...	0.050	0.35	0.40	0.82	0.230	0.040	0.040	0.040	50	8	4
MAY 06...	0.030	0.28	0.30	0.40	0.100	<0.010	0.020	0.030	--	11	3
JUN 09...	0.020	0.23	0.30	0.35	0.130	0.050	0.090	<0.010	20	6	4
AUG 04...	<0.010	--	<0.20	--	0.030	<0.010	0.020	0.020	60	17	3

DATE	TIME	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)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	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)
JAN 14...	1300	<10	57	<3	36	<10	<1	1	<1.0	1000	<6
MAY 06...	1400	20	65	<3	15	<10	<1	<1	<1.0	390	<6
JUN 09...	1500	<10	65	<3	18	<10	<1	<1	<1.0	370	<6
AUG 04...	1230	<10	90	<3	31	<10	<1	<1	<1.0	950	<6

DATE	NITRO- GEN, NO2+NO3 TOT. IN BOT. MAT. (MG/KG AS N) (00633)	NITRO- GEN, NH4 TOTAL IN BOT. BOT. MAT. (MG/KG AS N) (00611)	NITRO- GEN, NH4 TOTAL IN BOT. BOT. MAT. (MG/KG AS N) (00626)	PHOS- PHORUS TOTAL IN BOT. BOT. MAT. (MG/KG AS P) (00668)	ARSENIC TOTAL IN BOT. BOT. MAT. (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)
JAN 14...	<2.0	1.2	40	150	3	<1	2	<5	3	2900	<10

DATE	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/L AS U) (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)	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 ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	ALPHA SED SUSP. DRY WGH AS TH-230 (PCI/L) (04127)	ALPHA, 2 SIGMA SED SUS AS TH-230 (PCI/L) (76004)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)
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JAN 14...	190	<0.01	20	3.2	3.0	--	2.3	14	--	5.5	3.3
JUN 09...	--	--	--	1.6	1.3	1.2	0.96	5.4	5.9	4.1	2.4

DATE	BETA, 2 SIGMA WATER, DISS AS CS-137 (PCI/L) (75989)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90) (80050)	BETA, 2 SIGMA WATER, DISS AS CS-137 (PCI/L AS Y90) (75988)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) (80060)	BETA, 2 SIGMA SED, SUSP. TOT DRY SR90Y90 (PCI/L) (76005)	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)
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JAN 14...	1.0	2.5	0.80	7.3	6.7	1.8	0.05	0.010	2.1	<1.0
JUN 09...	0.81	1.8	0.64	5.1	4.8	1.6	0.05	0.010	0.69	<1.0

SAN JUAN RIVER BASIN

09368000 SAN JUAN RIVER AT SHIPROCK, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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 THAN .062 MM (70331)					
JAN 14...	1300	902	758	1.0	1610	3930	12					
MAY 06...	1400	5270	313	12.0	1390	19800	11					
JUN 09...	1500	6840	306	14.0	1850	34200	8					
AUG 04...	1230	589	613	22.5	229	364	80					
DATE	TIME	CHLOR- DYRIFOS 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)	
AUG 04...	1230	0.01	<0.01	<0.01	<0.1	<0.01	<0.10	<0.010	<0.010	<0.1	<0.010	
DATE	TIME	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)
AUG 04...		<0.010	<0.010	<0.010	<0.010	<0.010	<0.01	<1	<0.010	<0.010	<0.01	0.1
DATE	TIME	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 TOT.REC (UG/L) (82614)
JUN 09...	--	--	--	--	--	<0.01	<0.01	--	<0.01	--	<0.01	--
AUG 04...		<0.01	<0.01	<0.01	<0.01	--	--	<0.01	--	<0.01	--	<0.01

CROSS SECTION ANALYSES, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	STREAM DEPTH, MEAN (FT) (00064)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
AUG 04...	1230	20	.56	5.9	606	8.24	23.2	7.4	239
04...	1231	35	1.38	37	603	8.25	22.4	7.4	241
04...	1232	50	2.24	79	613	8.27	22.4	7.2	239
04...	1233	65	2.04	68	613	8.26	22.4	7.3	243
04...	1234	80	1.80	66	613	8.28	22.3	7.2	283
04...	1235	95	2.10	74	613	8.28	22.3	7.2	332
04...	1236	110	2.10	74	611	8.31	22.4	7.2	371
04...	1237	125	2.00	70	613	8.26	22.4	7.2	285
04...	1238	140	2.40	77	613	8.31	22.4	7.2	277
04...	1239	155	1.64	35	614	8.30	22.5	7.2	239

SAN JUAN RIVER BASIN

09368000 SAN JUAN RIVER AT SHIPROCK, NM -- Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	626	604	614	671	643	652	653	649	652	729	726	727
2	644	614	627	667	641	649	651	647	649	730	726	728
3	647	626	633	655	631	641	650	645	647	731	727	729
4	741	627	649	634	620	628	646	635	641	735	730	732
5	701	643	660	658	620	632	639	635	637	738	733	736
6	643	627	636	650	636	644	641	636	639	740	736	738
7	638	630	634	655	642	649	643	638	640	743	737	740
8	658	634	646	651	640	646	643	639	641	746	741	744
9	654	622	644	670	608	639	646	639	643	748	744	746
10	647	636	641	679	660	670	647	641	644	749	744	747
11	643	635	640	670	543	631	649	645	647	753	746	749
12	667	641	646	849	559	652	650	628	637	753	750	752
13	647	624	639	851	782	801	654	634	647	756	751	754
14	684	622	633	812	790	799	662	654	657	764	753	756
15	664	624	633	835	808	825	668	660	664	767	743	755
16	640	626	633	804	746	763	673	666	669	771	740	759
17	645	628	639	749	741	745	670	666	668	776	724	753
18	655	637	645	767	751	756	673	668	671	753	730	743
19	647	635	641	785	765	776	676	671	674	762	726	741
20	651	639	645	797	787	791	696	676	685	743	693	720
21	652	634	646	814	798	804	704	696	701	708	684	695
22	662	640	648	810	802	806	705	700	703	715	680	700
23	666	644	651	816	806	810	699	696	698	714	680	697
24	658	641	652	822	810	816	700	696	697	713	672	690
25	651	631	641	831	821	824	703	696	699	732	675	695
26	653	635	642	835	825	829	707	702	704	740	678	700
27	655	635	644	835	825	829	712	705	708	717	689	703
28	660	640	650	824	821	823	714	710	712	718	684	702
29	674	640	661	822	652	716	720	715	717	710	689	702
30	742	678	701	657	653	655	725	719	722	704	670	688
31	706	583	656	---	---	---	730	725	727	683	655	667
MONTH	742	583	644	851	543	730	730	628	672	776	655	725

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	666	647	657	729	708	718	---	---	---	351	323	335
2	668	654	661	725	709	716	780	636	706	327	304	313
3	725	669	710	726	709	718	647	613	630	312	306	309
4	716	692	708	728	710	722	627	609	618	316	307	312
5	690	651	672	708	685	696	624	597	610	320	311	315
6	678	655	663	683	675	680	792	583	637	317	311	314
7	676	658	666	673	666	669	601	531	565	318	308	313
8	670	658	665	672	664	668	531	504	523	377	308	313
9	683	665	676	673	660	667	525	502	511	421	309	322
10	692	677	686	675	671	673	534	483	504	518	339	403
11	692	670	682	672	667	670	528	475	495	398	385	393
12	690	678	685	670	666	668	480	453	466	385	345	367
13	697	681	690	664	642	646	454	433	443	343	314	327
14	729	677	695	659	646	653	459	422	435	314	295	303
15	739	702	716	655	643	649	451	397	420	293	287	289
16	706	702	704	641	634	638	401	382	391	286	282	285
17	711	702	707	634	626	630	387	370	379	284	280	282
18	707	689	695	624	616	619	377	361	371	281	279	280
19	693	680	689	615	595	602	370	347	357	279	274	276
20	686	664	678	614	596	605	350	345	348	274	267	270
21	685	660	671	610	587	597	355	340	347	273	265	269
22	721	685	705	618	596	603	369	344	353	290	273	281
23	756	707	726	616	603	607	356	349	352	299	288	293
24	760	704	732	620	601	607	358	347	353	329	301	316
25	728	721	725	603	593	598	384	351	374	329	318	324
26	725	715	720	688	590	605	383	369	377	316	305	310
27	731	719	723	---	---	---	405	372	383	305	299	301
28	734	722	729	---	---	---	380	365	373	300	296	298
29	724	712	719	---	---	---	397	356	369	300	291	296
30	---	---	---	---	---	---	372	339	352	291	287	290
31	---	---	---	---	---	---	---	---	---	296	290	292
MONTH	760	647	695	---	---	---	---	---	---	518	265	309

SAN JUAN RIVER BASIN

09368000 SAN JUAN RIVER AT SHIPROCK, NM -- Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	301	294	296	394	388	391	537	492	509	593	576	582
2	309	295	302	403	390	398	568	525	534	598	556	588
3	298	292	295	437	399	419	623	572	595	580	571	576
4	305	293	298	478	439	459	637	540	607	584	575	578
5	311	295	301	473	463	467	531	406	451	586	574	579
6	304	296	300	476	457	465	406	386	394	586	575	580
7	303	293	298	477	462	470	398	384	391	600	584	595
8	303	291	297	504	465	483	391	380	385	600	592	596
9	312	300	307	521	501	512	396	385	390	595	588	592
10	310	303	307	535	508	521	446	397	413	595	589	593
11	312	306	309	552	531	535	496	448	470	597	589	593
12	316	305	311	665	552	583	533	498	512	603	596	600
13	315	308	312	762	625	715	565	535	547	607	602	604
14	305	294	299	744	584	669	582	565	573	610	597	602
15	303	291	295	585	560	574	587	575	581	617	609	612
16	315	300	306	592	569	579	579	565	573	627	616	620
17	342	313	323	621	586	601	576	563	570	627	622	625
18	351	340	345	630	611	621	568	548	558	627	621	624
19	351	340	346	651	621	634	552	522	538	775	622	654
20	342	321	329	659	644	650	525	508	519	801	716	768
21	324	318	320	659	643	651	520	505	514	950	636	723
22	323	310	315	698	650	672	510	505	507	907	641	727
23	312	305	309	747	698	727	523	507	518	947	611	697
24	335	307	318	864	731	777	546	522	529	625	616	620
25	337	322	327	1110	876	998	541	511	522	644	623	633
26	396	337	357	908	197	628	538	529	532	694	630	656
27	356	349	351	600	419	482	535	517	529	702	649	682
28	363	346	353	451	421	440	572	504	520	688	646	676
29	382	359	370	449	350	412	544	529	537	681	622	647
30	393	382	387	425	360	386	564	546	553	671	630	648
31	---	---	---	488	429	452	577	565	570	---	---	---
MONTH	396	291	319	1110	197	560	637	380	514	950	556	629

TEMPERATURE, WATER (DEG. C) WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	19.0	14.3	16.7	6.8	2.7	4.6	3.3	1.1	2.3	2.5	.3	1.5
2	18.6	13.8	16.2	6.3	4.4	5.3	2.3	.1	1.0	2.3	.2	1.2
3	17.8	12.8	15.4	5.4	2.4	4.0	1.3	.1	.5	1.3	.8	1.2
4	16.1	12.2	14.3	5.7	2.1	3.8	1.2	.1	.4	3.2	.6	1.8
5	15.2	10.1	12.6	8.1	3.2	5.4	1.2	.1	.5	3.7	1.7	2.7
6	15.3	9.9	12.6	9.2	5.2	7.1	1.7	.0	.7	3.7	2.4	2.9
7	16.0	10.3	13.0	10.4	6.3	8.3	3.1	.5	1.6	3.5	1.9	2.6
8	16.3	11.0	13.6	10.4	6.7	8.6	3.9	1.0	2.3	3.1	.8	2.0
9	16.4	11.7	14.1	10.3	7.2	8.8	4.1	1.5	2.6	1.8	-.3	.7
10	16.8	11.3	14.1	10.3	8.7	9.5	3.9	1.3	2.7	.1	-.3	-.1
11	16.8	11.5	14.2	10.5	8.9	9.7	3.9	3.2	3.6	.5	-.3	.2
12	16.1	11.6	13.9	8.7	6.6	7.6	3.8	2.9	3.4	1.3	-.4	.4
13	15.9	11.5	13.8	8.0	5.9	6.9	3.0	2.2	2.7	.7	-.4	.0
14	14.9	10.8	13.0	8.8	7.4	8.1	2.9	2.2	2.5	1.1	-.4	.3
15	15.8	10.7	13.1	8.9	7.7	8.5	2.8	2.4	2.6	.8	-.4	.0
16	15.8	10.8	13.3	7.7	4.8	6.3	2.7	1.6	2.3	.7	-.4	.0
17	15.3	10.4	12.9	6.0	4.1	5.0	3.3	1.4	2.3	.9	-.3	.0
18	14.9	10.3	12.6	6.8	6.1	6.5	3.6	2.5	3.0	1.4	-.3	.3
19	14.6	9.9	12.4	6.8	6.4	6.7	5.2	3.3	4.1	1.9	-.3	.6
20	13.7	10.4	12.2	6.3	5.9	6.1	4.3	2.9	3.8	1.6	-.3	.5
21	14.7	10.1	12.4	6.1	5.1	6.0	3.5	2.2	2.9	1.9	-.2	.6
22	14.4	11.3	12.6	4.9	3.4	4.1	4.6	3.1	3.7	1.6	-.2	.5
23	13.5	10.2	11.9	3.6	1.6	2.6	3.5	2.0	2.7	1.7	-.2	.5
24	13.4	10.1	11.9	3.6	.9	2.3	3.0	1.4	2.1	2.6	-.1	1.0
25	13.3	9.9	11.6	4.6	2.0	3.2	2.3	1.4	1.9	3.5	-.1	1.5
26	12.6	8.7	10.7	4.9	2.4	3.6	2.1	1.6	1.9	4.1	.5	2.3
27	10.9	9.3	10.2	5.8	2.8	4.3	2.5	1.6	2.1	4.2	.9	2.4
28	9.8	7.0	8.4	6.6	3.8	5.2	2.7	1.7	2.1	4.1	.8	2.4
29	6.9	5.2	6.1	5.7	3.9	4.9	3.2	.8	2.1	4.3	.7	2.4
30	5.6	4.4	5.1	4.3	3.0	3.8	3.3	2.1	2.7	4.4	.9	2.6
31	4.7	2.1	3.6	---	---	---	3.1	1.7	2.3	5.0	1.4	3.1
MONTH	19.0	2.1	12.2	10.5	.9	5.9	5.2	.0	2.3	5.0	-.4	1.2

SAN JUAN RIVER BASIN

09368000 SAN JUAN RIVER AT SHIPROCK, NM -- Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	5.3	1.8	3.4	10.2	6.3	8.3	---	---	---	13.4	10.8	12.2
2	5.4	2.2	3.7	10.9	7.1	8.9	12.5	8.9	10.6	13.0	11.0	12.0
3	4.6	2.9	3.8	11.0	8.1	9.4	13.9	9.5	11.5	12.8	11.2	11.8
4	5.4	2.9	3.9	9.6	7.5	8.4	15.1	10.2	12.5	13.7	10.8	12.1
5	4.7	2.7	3.6	9.4	6.7	7.9	15.5	11.1	13.1	13.2	10.7	12.1
6	4.6	2.6	3.6	10.0	6.5	8.2	15.4	11.1	13.1	13.8	11.5	12.6
7	5.0	2.4	3.6	10.8	6.8	8.6	15.7	11.3	13.4	12.7	10.9	11.6
8	5.6	3.8	4.5	9.4	7.6	8.5	15.6	11.6	13.4	14.0	10.6	12.3
9	6.3	3.7	5.0	8.6	6.3	7.5	15.4	11.4	13.4	12.9	10.6	11.6
10	6.4	5.2	5.8	9.3	4.8	6.9	15.2	11.8	13.3	11.9	9.4	10.8
11	6.4	4.6	5.4	10.2	5.4	7.7	15.5	11.6	13.4	12.6	10.0	11.5
12	7.4	5.0	6.1	11.2	6.1	8.5	16.0	12.3	14.0	14.2	11.4	12.8
13	6.3	5.4	5.9	11.8	6.6	9.1	14.6	12.2	13.5	14.6	11.8	13.2
14	6.1	4.6	5.3	12.5	7.1	9.7	14.5	11.7	13.1	14.6	11.8	13.2
15	5.4	3.5	4.5	12.2	7.6	9.7	12.8	11.4	12.2	14.5	11.9	13.2
16	5.2	3.5	4.3	11.1	7.3	9.1	11.7	9.7	11.0	14.6	11.8	13.2
17	5.1	2.5	3.6	11.0	7.7	9.1	11.5	9.5	10.7	14.5	11.6	13.1
18	5.0	1.8	3.3	10.4	6.6	8.5	10.9	8.7	10.0	14.9	12.3	13.5
19	6.0	1.8	3.8	10.5	6.0	8.1	8.9	7.3	8.2	14.7	12.6	13.5
20	7.0	3.0	5.0	11.1	5.6	8.2	9.6	7.0	8.4	13.0	11.0	12.4
21	8.9	4.6	6.6	9.2	6.5	8.0	10.1	7.7	9.0	12.1	10.6	11.3
22	8.8	4.9	6.8	10.9	6.8	8.6	10.9	8.9	9.9	12.3	10.8	11.7
23	8.2	5.4	6.6	11.9	7.3	9.4	10.8	8.5	9.8	12.1	11.4	11.8
24	7.5	4.6	5.8	12.8	7.8	10.1	11.2	8.7	10.0	13.2	11.3	12.2
25	8.3	4.4	6.2	13.1	7.8	10.2	12.3	9.2	10.8	14.1	11.6	13.0
26	9.0	5.1	6.9	12.7	8.2	10.4	13.2	9.7	11.5	13.6	12.4	13.1
27	9.1	4.8	6.8	---	---	---	13.3	10.3	11.9	14.4	12.7	13.5
28	9.7	4.9	7.2	---	---	---	13.7	10.6	12.1	13.7	12.4	13.1
29	9.9	5.4	7.7	---	---	---	14.0	10.8	12.4	13.1	11.6	12.2
30	---	---	---	---	---	---	14.0	11.5	12.7	13.1	11.3	12.3
31	---	---	---	---	---	---	---	---	---	13.3	10.8	12.2
MONTH	9.9	1.8	5.1	---	---	---	---	---	---	14.9	9.4	12.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	13.9	11.8	12.9	20.9	16.9	18.8	24.6	20.4	22.5	20.6	16.5	18.4
2	14.1	11.6	12.9	21.0	16.1	18.5	25.1	21.1	23.1	21.3	17.4	19.3
3	14.1	12.6	13.2	22.4	16.5	19.2	25.1	21.1	23.1	21.3	17.7	19.6
4	14.8	12.3	13.5	23.1	18.1	20.5	24.8	21.8	23.3	21.1	17.7	19.2
5	15.0	13.5	14.1	24.7	18.6	21.4	24.6	21.9	23.3	20.4	16.6	18.2
6	15.3	13.0	14.1	24.9	19.6	22.2	23.3	21.5	22.5	20.7	16.5	18.5
7	14.5	13.1	13.7	23.4	20.4	21.9	25.4	20.9	23.0	20.3	17.3	18.9
8	13.8	12.4	13.1	24.1	19.6	21.7	26.1	22.2	24.1	20.8	17.1	19.1
9	14.3	11.1	12.7	24.9	20.0	22.3	26.0	22.2	24.1	20.4	17.3	18.9
10	14.4	12.8	13.8	24.0	19.7	21.6	26.3	22.4	24.3	21.2	16.6	19.0
11	16.0	13.5	14.6	23.9	19.7	21.6	25.1	22.7	24.0	21.4	17.4	19.4
12	17.5	13.9	15.5	21.1	19.2	20.4	25.7	21.3	23.4	20.7	17.7	19.3
13	17.3	14.3	15.7	20.7	17.3	19.1	25.5	21.9	23.7	20.9	17.5	19.2
14	16.7	14.0	15.2	22.8	17.6	20.1	25.4	21.9	23.8	21.0	17.9	19.4
15	16.3	13.2	14.7	23.8	19.1	21.3	25.9	22.0	24.0	21.3	18.4	19.8
16	16.7	13.4	14.9	24.9	18.7	21.7	25.3	22.2	23.9	21.9	18.8	20.3
17	17.1	13.0	15.0	25.7	19.7	22.6	25.0	21.6	23.3	21.5	18.5	20.1
18	18.7	14.1	16.3	25.5	20.2	22.7	24.8	21.0	22.9	20.1	18.1	19.0
19	19.3	15.4	17.3	26.6	19.7	23.0	24.7	21.1	23.0	19.1	17.6	18.2
20	18.9	15.3	17.1	25.7	20.0	23.0	24.9	20.8	22.9	19.1	16.8	18.0
21	19.4	15.1	17.1	26.7	20.8	23.7	23.9	21.5	22.9	18.5	15.6	17.3
22	19.9	15.6	17.7	27.0	21.1	23.9	22.4	21.1	21.6	18.9	14.6	16.9
23	19.8	16.1	17.7	23.6	21.2	22.4	21.0	19.9	20.5	19.9	15.5	17.9
24	20.5	16.2	18.1	21.5	19.8	20.6	20.2	18.7	19.4	19.9	15.9	18.1
25	19.3	17.3	18.2	22.6	20.0	21.0	18.9	16.8	18.3	18.5	16.5	17.6
26	19.8	16.1	17.8	22.2	19.3	21.1	20.2	17.0	18.5	17.0	14.4	15.9
27	20.2	16.6	18.4	22.8	19.0	20.9	19.6	16.4	18.0	16.4	13.5	15.2
28	21.2	16.4	18.9	24.8	19.5	22.1	20.2	15.6	17.8	16.4	13.1	15.1
29	21.0	17.6	19.2	25.1	20.4	22.7	19.0	16.7	17.9	17.5	14.2	15.7
30	21.2	17.3	19.1	24.5	20.7	22.5	20.7	17.2	18.5	18.3	14.5	16.5
31	---	---	---	24.0	20.5	22.3	18.9	17.3	18.2	---	---	---
MONTH	21.2	11.1	15.7	27.0	16.1	21.5	26.3	15.6	21.9	21.9	13.1	18.3

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	707	1100	1050	889	999	920	1790	5950	7460	2220	810	1680
2	701	1090	1090	848	1030	968	2220	6100	7030	2030	713	1330
3	689	1060	1050	766	1300	1040	1920	5990	6720	1730	661	1080
4	683	1040	1060	751	1480	1310	1640	5960	6620	1580	619	979
5	626	1010	1130	803	1730	1350	1640	5770	6550	1430	554	961
6	620	1040	1110	859	1470	1350	1680	5690	6900	1420	548	853
7	714	1040	1020	934	1450	1350	1810	5870	7070	1390	608	769
8	764	1030	955	861	1370	1360	2050	6150	7030	1310	538	754
9	731	1090	939	859	1300	1320	2260	6080	6800	1320	569	675
10	698	1070	941	811	1290	1180	2230	7360	6330	1340	538	621
11	692	1160	1010	744	1410	1100	2420	6580	5920	1350	527	578
12	730	1340	1480	808	1520	968	2600	5960	5350	1380	490	550
13	752	1850	1990	827	1550	929	2760	5850	4980	2650	545	536
14	776	1220	1720	988	1780	1010	2970	5830	5290	2180	533	558
15	781	1520	1200	924	1920	1130	3520	6000	5220	1780	485	669
16	740	3070	984	882	1660	1220	3910	5910	4690	1290	513	657
17	696	2970	873	837	1400	1210	4910	5830	3980	1140	519	596
18	688	2060	911	961	1190	1170	5480	5730	3540	955	490	571
19	714	2190	1080	1060	1050	1210	5940	5790	3520	753	461	2540
20	776	1770	1330	914	999	1040	6000	5760	3590	678	427	2000
21	768	1490	1500	887	976	1100	5810	6710	3620	655	409	1880
22	731	1320	1340	880	835	1140	5660	7800	3650	562	409	1520
23	690	1100	1230	777	1040	1220	5640	7220	3470	545	558	1280
24	740	988	1040	863	1220	1160	5480	6760	3210	762	834	1000
25	851	1110	918	787	1110	1050	4750	7120	3020	946	3130	890
26	821	1010	774	798	945	1010	4200	7590	3020	2330	3360	853
27	818	971	810	808	855	1010	4450	7920	2850	2800	2430	841
28	834	978	754	875	852	1240	4670	8780	2700	2120	2040	915
29	1010	948	757	801	885	1430	5250	8900	2520	1710	1640	914
30	1130	982	804	856	---	1410	5830	8360	2410	1350	1400	855
31	1120	---	829	931	---	1390	---	7960	---	995	1320	---
TOTAL	23791	40617	33679	26589	36616	36295	111490	205280	145060	44701	28678	29905
MEAN	767	1354	1086	858	1263	1171	3716	6622	4835	1442	925	997
MAX	1130	3070	1990	1060	1920	1430	6000	8900	7460	2800	3360	2540
MIN	620	948	754	744	835	920	1640	5690	2410	545	409	536
AC-FT	47190	80560	66800	52740	72630	71990	221100	407200	287700	88660	56880	59320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1992, BY WATER YEAR (WY)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
MEAN	1350	1508	1576	1685	1822	2107	3236	4606	4920	2535	1462	1375
MAX	2959	3732	3466	3300	3365	3934	7893	10220	10370	6846	3016	3243
(WY)	1987	1987	1987	1987	1987	1987	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 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1978 - 1992

	1991 CALENDAR YEAR	1992 WATER YEAR	1978 - 1992
ANNUAL TOTAL	533933	762701	
ANNUAL MEAN	1463	2084	2348
HIGHEST ANNUAL MEAN			4180
LOWEST ANNUAL MEAN			991
HIGHEST DAILY MEAN	5160	8900	16400
LOWEST DAILY MEAN	365	409	110
ANNUAL SEVEN-DAY MINIMUM	402	461	126
INSTANTANEOUS PEAK FLOW		9260	16900
INSTANTANEOUS PEAK STAGE		4.72	46.25
INSTANTANEOUS LOW FLOW			110
ANNUAL RUNOFF (AC-FT)	1059000	1513000	1701000
10 PERCENT EXCEEDS	2950	5860	5260
50 PERCENT EXCEEDS	1060	1130	1620
90 PERCENT EXCEEDS	619	677	727

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, 1985 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)
NOV 05...	0900	1070	--	8.1	9.5	4.5	46	651	11.3
JAN 14...	0930	774	835	7.8	-3.5	0.5	26	647	14.3
MAR 19...	0830	1180	680	8.3	8.0	6.5	100	650	10.4
MAY 06...	0930	5650	335	8.0	22.0	13.0	77	650	9.5
JUL 07...	1915	1360	498	8.6	24.5	22.5	12	650	8.2
AUG 06...	1130	557	712	8.4	28.0	23.0	33	650	8.3

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)
NOV 05...	200	68	65	10	39	1	2.8	165	0
JAN 14...	290	140	85	18	61	2	2.9	183	0
MAR 19...	250	110	71	17	41	1	2.2	165	0
MAY 06...	130	39	40	7.5	17	0.6	1.8	112	0
JUL 07...	190	83	58	11	31	1	2.0	118	6
AUG 06...	270	130	79	18	49	1	2.6	146	11

DATE	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS 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, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)
NOV 05...	135	150	10	0.30	8.7	373	367
JAN 14...	150	240	20	0.30	9.2	513	526
MAR 19...	135	200	15	0.30	8.1	434	436
MAY 06...	92	69	3.4	0.30	9.0	213	203
JUL 07...	107	130	7.9	0.20	6.3	317	310
AUG 06...	138	210	17	0.30	7.0	471	466

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 good except for estimated daily discharges, which are fair. Several observations of water temperature were made during the year. No flow Oct. 1-20, 1969.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	.20	.04	.02	2.5	9.2	59	.14	.96	.02	.11	.11
2	.23	.18	.03	e.02	3.4	10	28	.11	.59	.02	.07	.09
3	.23	.15	e.02	e.01	4.6	49	19	.13	.44	.01	.08	.09
4	.25	.14	e.02	.01	4.9	31	15	.47	.32	.01	.11	.09
5	.25	.15	e.03	.01	4.5	19	12	.32	.26	.01	.07	.08
6	.23	.15	e.03	.03	3.3	14	10	.51	.20	.01	.10	.07
7	.22	.14	.02	.05	1.3	15	7.6	.95	.16	.01	11	.06
8	.21	.16	.02	.02	.96	21	6.5	.65	.16	.01	.39	.06
9	.18	.15	e.02	.01	3.0	14	5.1	.76	.16	.01	2.5	.06
10	.19	.25	.01	e.03	7.6	10	4.0	11	.16	.01	.44	.06
11	.21	.62	e.02	e.03	7.9	11	3.2	3.3	.18	.01	71	.06
12	.19	.39	e.03	e.03	12	8.6	2.6	.85	.19	.06	42	.08
13	.21	.19	e.02	e.02	20	15	2.1	.38	.20	.06	.91	.08
14	.21	.18	e.05	e.04	27	23	3.5	.21	.22	.01	.14	.09
15	.21	.24	e.09	e.04	13	35	2.9	.12	.16	.01	.09	.10
16	.21	2.1	e.30	e.05	6.8	35	4.1	.08	e.15	.01	.07	.10
17	.20	7.4	e.25	.05	2.8	31	3.5	.04	e.10	.01	.07	.10
18	.17	9.1	e.15	.03	1.1	28	2.9	.01	.01	.01	.06	.11
19	.18	.75	e.20	.03	.75	20	2.4	.08	.02	.01	.04	.15
20	.18	.22	e.25	.03	1.1	32	1.9	.57	.03	.01	.04	.16
21	.17	.12	e.15	.04	2.9	47	1.7	4.5	.04	.01	.04	.13
22	.16	.09	e.10	.05	8.1	41	1.4	1.2	.04	.02	.05	.12
23	.18	.04	e.08	.04	13	34	1.2	.53	.06	.02	.11	.12
24	.18	.02	e.08	.04	5.7	44	1.0	.54	.06	.04	78	.12
25	.16	.02	e.06	.05	4.2	49	.72	1.4	.05	.07	13	.13
26	.16	.02	e.06	.07	3.1	39	.32	2.0	.06	.08	.46	.14
27	.18	.03	e.06	.13	3.6	38	.25	1.0	.04	.05	.17	.12
28	.20	.03	e.06	.19	6.8	130	.21	.89	.04	.04	.11	.12
29	.19	.02	e.05	.28	8.3	102	.19	.71	.04	.04	.09	.12
30	.23	.03	.01	.76	---	69	.17	1.2	.02	.04	.08	.14
31	.29	---	.02	1.4	---	78	---	2.3	---	.04	.10	---
TOTAL	6.28	23.28	2.33	3.61	184.21	1101.8	202.46	36.95	5.12	0.77	221.50	3.06
MEAN	.20	.78	.075	.12	6.35	35.5	6.75	1.19	.17	.025	7.15	.10
MAX	.29	9.1	.30	1.4	27	130	59	11	.96	.08	78	.16
MIN	.16	.02	.01	.01	.75	8.6	.17	.01	.01	.01	.04	.06
AC-FT	12	46	4.6	7.2	365	2190	402	73	10	1.5	439	6.1

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1970	.44	2.43	1973	.031	1974
1971	.50	4.05	1987	.023	1978
1972	.82	3.76	1984	.019	1978
1973	.61	4.41	1980	.058	1976
1974	3.53	25.3	1980	.084	1971
1975	26.3	100	1985	.11	1972
1976	38.7	187	1973	.12	1976
1977	3.92	33.8	1973	.087	1976
1978	.35	1.33	1973	.031	1984
1979	.66	3.52	1982	.025	1992
1980	1.27	7.15	1992	.038	1971
1981	.42	1.90	1984	.033	1983

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1970 - 1992

ANNUAL TOTAL	2171.01	1791.37	
ANNUAL MEAN	5.95	4.89	6.45
HIGHEST ANNUAL MEAN			22.4
LOWEST ANNUAL MEAN			.13
HIGHEST DAILY MEAN	175	130	460
LOWEST DAILY MEAN	.01	.01	.00
ANNUAL SEVEN-DAY MINIMUM	.02	.01	.00
INSTANTANEOUS PEAK FLOW		436	b782
INSTANTANEOUS PEAK STAGE		7.21	a5.58
ANNUAL RUNOFF (AC-FT)	4310	3550	4670
10 PERCENT EXCEEDS	11	13	8.3
50 PERCENT EXCEEDS	.17	.16	.18
90 PERCENT EXCEEDS	.05	.02	.05

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 to March 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	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)
OCT 07...	1331	0.21	616	7.6	23.0	12.5	597	--	310	29	85	23
JAN 14...	1030	0.39	510	7.7	-3.0	0.0	590	9.0	260	47	71	19
MAR 18...	1200	23	208	8.0	8.0	3.0	586	10.2	100	0	27	8.4
DATE		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)	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)	
OCT 07...	12		0.3	1.2	339	0	278	67	13	0.30	13	
JAN 14...	9.4		0.3	1.1	254	0	208	51	7.4	0.30	9.7	
MAR 18...	6.3		0.3	1.7	134	0	110	16	3.4	0.20	11	
DATE		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)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT 07...	381	2	1	30	<1	3.0	1	<1	5	<1	5	
JAN 14...	294	<1	<1	30	<1	<1.0	<1	<1	1	1	15	
MAR 18...	140	1	<1	20	<1	<1.0	<1	<1	<1	2	100	
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, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 07...	3	<1	<0.10	<0.1	<1	<1	<10	11	189	0.11	81	
JAN 14...	<1	<1	<0.10	<0.1	<1	<1	20	6	1650	1.7	0	
MAR 18...	<1	<1	0.10	<0.1	<1	<1	<10	6	24	1.5	88	

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. Satellite telemeter available at station. No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	1.4	1.6	e1.2	2.9	1.4	39	.11	.72	.00	.00	.00
2	.00	1.3	1.3	e1.0	4.2	1.4	34	.06	.52	.00	.00	.00
3	.00	1.3	1.7	e1.0	5.0	1.8	28	.00	.31	.00	.00	.00
4	.00	1.3	1.3	e1.1	5.1	2.7	20	.01	.19	.00	.00	.00
5	.00	1.1	1.4	e1.2	4.0	3.6	14	.12	.11	.00	.00	.00
6	.00	.99	1.5	e1.1	3.5	2.6	11	.21	.00	.00	.00	.00
7	.00	1.0	1.6	e1.2	2.8	2.0	9.0	.83	.00	.00	.00	.00
8	.00	1.0	1.7	e1.1	2.8	2.0	8.0	1.2	.00	.00	.00	.00
9	.00	1.0	1.8	e1.2	4.4	2.4	6.6	1.0	.00	.00	21	.00
10	.00	1.1	1.9	e1.1	3.8	2.2	5.4	1.5	.00	.49	2.6	.00
11	.00	1.3	e1.8	e1.2	3.9	1.9	4.5	2.3	.00	.05	.16	.00
12	.00	1.7	e2.0	e1.0	4.2	1.7	3.7	1.0	.00	.00	.00	.00
13	.00	1.8	e2.0	e1.2	3.5	1.5	2.9	.72	.00	.00	.00	.00
14	.00	1.4	e2.0	e1.1	5.3	1.5	2.4	.42	.00	.00	.00	.00
15	.00	1.4	e1.9	e1.2	3.5	1.4	1.9	.25	.00	.00	.00	.00
16	.00	1.7	e1.4	e1.0	2.7	1.3	1.6	.15	.00	.00	.00	.00
17	.00	2.2	e1.3	e1.0	2.3	1.2	1.4	.03	.00	.00	.00	.00
18	.00	2.6	e1.4	e1.1	2.0	1.3	1.2	.00	.00	.00	.00	.00
19	.00	2.4	e1.5	e1.0	1.9	1.2	1.0	.01	.00	.00	.00	.00
20	.14	1.9	e2.0	e1.0	1.8	1.2	.85	.15	.00	.00	.00	.00
21	.31	1.7	e1.9	e1.1	1.7	1.2	.71	.50	.00	.00	.00	.00
22	.45	1.7	e1.4	e1.0	1.5	1.2	.62	.75	.00	.00	.00	.00
23	.49	1.5	e1.4	e1.1	1.5	1.3	.56	1.5	.00	21	.00	.00
24	.53	1.3	e1.1	1.3	1.5	1.4	.52	2.5	.00	1.8	.49	.00
25	.56	1.4	e1.0	1.4	1.5	1.3	.45	4.4	.00	.91	2.0	.00
26	.57	1.5	e1.1	1.5	1.4	1.3	.38	2.1	.00	.18	1.4	.00
27	.58	1.5	e1.0	1.7	1.4	1.2	.30	1.5	.00	.30	.90	.00
28	.80	1.6	e1.2	1.7	1.4	1.4	.23	1.2	.00	.00	.18	.00
29	.93	1.6	e1.1	1.7	1.4	1.6	.19	1.3	.00	.00	.00	.00
30	1.0	1.5	e1.2	1.8	---	15	.14	1.0	.00	.00	.00	.00
31	1.0	---	e1.1	2.2	---	35	---	.83	---	.00	.00	---
TOTAL	7.36	45.19	46.6	38.5	82.9	98.2	200.55	27.65	1.85	24.73	28.73	0.00
MEAN	.24	1.51	1.50	1.24	2.86	3.17	6.68	.89	.062	.80	.93	.000
MAX	1.0	2.6	2.0	2.2	5.3	35	39	4.4	.72	.21	.21	.00
MIN	.00	.99	1.0	1.0	1.4	1.2	.14	.00	.00	.00	.00	.00
AC-FT	15	90	92	76	164	195	398	55	3.7	49	57	.00
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1992, BY WATER YEAR (WY)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
MEAN	1.90	1.62	1.45	1.61	9.96	41.0	61.8	6.41	.23	3.57	7.20	3.04
MAX	12.6	13.7	5.87	4.72	73.4	263	308	65.3	1.97	25.6	23.6	17.5
(WY)	1984	1984	1984	1980	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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1970 - 1992

ANNUAL TOTAL	1076.57	602.26	
ANNUAL MEAN	2.95	1.65	
HIGHEST ANNUAL MEAN			11.6
LOWEST ANNUAL MEAN			46.9
HIGHEST DAILY MEAN	160	39	1530
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		637	a5200
INSTANTANEOUS PEAK STAGE		5.00	6.61
ANNUAL RUNOFF (AC-FT)	2140	1190	8410
10 PERCENT EXCEEDS	3.2	2.6	11
50 PERCENT EXCEEDS	.98	1.0	.88
90 PERCENT EXCEEDS	.00	.00	.00

a-From rating curve extended above 670 ft³/s on basis of slope-area measurement 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 1978 to March 1992 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	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)
JAN 14...	1330	2.3	800	7.9	1.5	0.0	600	11.6	280	2	72	25
MAR 18...	1400	1.3	780	7.9	10.5	7.0	595	9.7	270	0	69	24

DATE	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)
JAN 14...	84	2	4.1	342	0	280	--	110	25	0.40	20
MAR 18...	78	2	3.7	363	0	--	298	120	25	0.20	11

DATE	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)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
JAN 14...	509	<1	1	90	<1	<1.0	1	<1	<1	1	21
MAR 18...	516	1	<1	<10	<1	<1.0	<1	<1	<1	1	5

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, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JAN 14...	<1	<1	<0.10	<0.1	<1	<1	10	4	1620	9.9	99
MAR 18...	2	<1	<0.10	<0.1	<1	<1	<10	<3	103	0.37	65

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 current year.

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.--Discharge records good. Flow partly regulated by Black Rock Reservoir 18 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
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	.22	.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	.81	.00	.75	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.53	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.32	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.9	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.82	.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	.24	.00	.00	.00	14
21	.00	.00	.00	.00	.00	.00	.00	1.5	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	3.6	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	8.1	.00	11	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.58	.00	2.7	19	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	56	13	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	85	7.6	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	15	7.1	.00
28	.00	.00	.00	.00	.00	.00	.00	.41	.00	5.4	6.8	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.2	3.5	.00
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.40	.00	.00
31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00	.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.46	0.00	345.72	57.00	14.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.50	.000	11.2	1.84	.47
MAX	.00	.00	.00	.00	.00	.00	.00	8.1	.00	85	19	14
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	31	.00	686	113	28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	MEAN	.046	.20	.000	.000	.000	.002	.000	.12	.000	4.44	1.42	.14
MAX	.15	.79	.000	.000	.000	.000	.007	.000	.50	.000	11.2	2.51	.47
(WY)	1991	1988	1988	1988	1988	1988	1989	1988	1992	1988	1992	1989	1992
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.030	.000
(WY)	1989	1989	1988	1988	1988	1988	1988	1988	1988	1988	1988	1991	1991

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1988 - 1992

ANNUAL TOTAL	0.93	432.18		
ANNUAL MEAN	.003	1.18		
HIGHEST ANNUAL MEAN			.54	1992
LOWEST ANNUAL MEAN			1.18	1991
HIGHEST DAILY MEAN	.93 Aug 27	85 Jul 26	158	Jul 31 1989
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00	Oct 1 1987
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00	Oct 1 1987
INSTANTANEOUS PEAK FLOW		791 Jul 10	1330	Jul 31 1988
INSTANTANEOUS PEAK STAGE		5.45 Jul 10	5.63	Jul 31 1988
ANNUAL RUNOFF (AC-FT)	1.8	857	392	
10 PERCENT EXCEEDS	.00	.00	.00	
50 PERCENT EXCEEDS	.00	.00	.00	
90 PERCENT EXCEEDS	.00	.00	.00	

a-From rating curve extended above 1.0 ft³/s on basis of step-backwater analysis.

LITTLE COLORADO RIVER BASIN

09395350 PUERCO RIVER NEAR CHURCH ROCK, NM

LOCATION.--Lat 35°36'04", long 108°35'12", in SE¼NW¼ sec.24, T.16 N., R.17 W., McKinley County, Hydrologic Unit 150200006, on right bank 100 ft downstream from three 5-ft CMC pipe bridge on dirt road 1 mi northwest of State Highway 566, 2.7 mi upstream from Hard Ground Canyon, 7.4 mi upstream from South Fork, and 9.5 mi northeast of Gallup.

DRAINAGE AREA.-- 205 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1977 to September 1982, May 1989 to September 1991 (discontinued).

GAGE.--Water-stage recorder and crest-stage. Elevation of gage is 6,710 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to December 4, 1980 at site 1.7 mi upstream at different datum.

REMARKS.--Water-discharge records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,040 ft³/s Aug. 24, 1982, gage height, 4.94 ft from floodmarks, from rating curve extended above 20 ft³/s on basis of slope-area measurements at gage heights 3.80 ft and 4.80 ft; no flow at times.

REVISIONS.--Revised daily discharges, in cubic feet per second for 1989 water year, as shown in the table below.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	.00	.00	.00	25	.00
2	---	---	---	---	---	---	---	.00	.00	.00	29	.00
3	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
4	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
5	---	---	---	---	---	---	---	.00	.00	.00	.00	110
6	---	---	---	---	---	---	---	.00	.00	.00	.00	9.5
7	---	---	---	---	---	---	---	.00	1.4	.00	.00	.00
8	---	---	---	---	---	---	---	.00	3.1	.00	.00	.00
9	---	---	---	---	---	---	---	.00	3.4	.00	.00	.00
10	---	---	---	---	---	---	---	.00	4.3	.00	.00	.00
11	---	---	---	---	---	---	---	.00	4.2	.00	.00	.00
12	---	---	---	---	---	---	---	.00	4.1	.00	.00	.00
13	---	---	---	---	---	---	---	.00	3.8	.00	.00	.00
14	---	---	---	---	---	---	---	.00	2.7	.00	.00	.00
15	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
16	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
17	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
18	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
19	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
20	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
21	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
22	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
23	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
24	---	---	---	---	---	---	---	.00	.00	29	.00	.00
25	---	---	---	---	---	---	---	.00	.00	6.4	.00	.00
26	---	---	---	---	---	---	---	.00	.00	92	.00	.00
27	---	---	---	---	---	---	---	.00	.00	41	.00	.00
28	---	---	---	---	---	---	---	.00	.00	96	.00	.00
29	---	---	---	---	---	---	---	.00	.00	5.6	.00	.00
30	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
31	---	---	---	---	---	---	---	.00	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	0.00	27.00	270.00	54.00	119.50
MEAN	---	---	---	---	---	---	---	.000	.90	8.71	1.74	3.98
MAX	---	---	---	---	---	---	---	.00	4.3	96	29	110
MIN	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	---	.00	54	536	107	237

RIO GRANDE BASIN

09395630 PUERCO RIVER NEAR MANUELITO, NM

LOCATION.--Lat 35°27'42", long 108°56'42", in SE¼NW¼ sec.10, T.14 N., R.20 W., McKinley County, Hydrologic Unit 150200006, on right bank on downstream side of Atchison, Topeka and Santa Fe Railway bridge, 200 ft upstream from Interstate Highway 40, 1.2 mi upstream from Hunting Canyon, and 12.6 mi west of Gallup.

DRAINAGE AREA.-- 990 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1989 to current year.

GAGE.--Water-stage recorder, crest stage gage, and concrete control. Elevation of gage is 6,290 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Water-discharge records poor. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.6	e1.9	e1.0	e.90	e2.4	e6.6	16	e2.9	9.7	2.6	e3.2	207
2	e1.6	e1.7	e1.0	e.90	e2.4	e6.6	e11	e3.3	e8.0	2.8	e3.2	140
3	e1.5	e1.7	e1.0	e.90	e2.4	e6.6	e10	e3.4	e6.8	2.6	e3.4	99
4	e1.5	e1.7	e.00	e.90	e2.4	e6.6	e9.3	e3.4	e5.8	3.0	e3.6	76
5	e1.5	e1.6	e.00	e.90	e2.4	e6.6	e8.7	e3.4	e5.0	3.1	e3.8	66
6	e1.5	e1.5	e.00	e.90	e2.3	e6.6	e8.4	e3.4	e4.4	2.1	e4.0	e6.0
7	e1.5	e1.5	e.00	e.90	e2.3	73	e8.0	e3.5	e3.5	2.6	e4.0	e5.8
8	e1.4	e1.4	e.00	e.90	e2.3	e10	e7.3	17	e3.0	4.1	e4.0	e5.8
9	e1.4	e1.4	e.00	e.90	e2.3	e10	e7.0	22	14	5.1	e4.0	e5.8
10	e1.4	e1.4	e.00	e.90	e2.3	76	e6.4	135	23	60	e4.0	e5.8
11	e1.4	46	e.00	e.90	e2.3	e11	e6.2	22	e3.8	80	19	e5.7
12	e1.4	34	e.00	e1.5	e2.3	e11	e6.0	13	e3.6	107	20	e5.7
13	e1.4	e1.4	e.00	e1.5	38	e11	e6.4	9.8	e3.2	40	7.8	e5.6
14	e1.3	e1.3	e.00	e1.5	31	e11	e6.6	11	e3.2	20	11	e5.6
15	e1.3	77	e.00	e1.5	37	e11	e6.8	5.0	e3.2	14	16	e5.6
16	e1.3	61	e.00	e1.5	e6.4	e11	e6.0	15	e3.1	15	13	e5.6
17	e1.3	e1.2	e.00	e1.5	e6.5	e10	e5.4	55	e3.1	18	27	e5.5
18	e1.3	e1.1	e1.0	e1.4	e6.6	e10	e4.5	39	e3.1	18	51	e5.4
19	e1.2	e1.1	e1.0	e1.4	e6.6	e10	e4.2	42	e3.1	73	e10	113
20	e1.2	e1.1	e1.0	e1.4	e6.6	e10	e3.6	33	e3.1	7.7	e6.0	189
21	e1.2	e1.1	e1.0	e2.5	e6.6	e12	e3.3	76	e3.1	2.8	e6.0	63
22	e1.2	e1.1	e1.0	e2.5	e6.6	e12	e3.0	46	e3.1	7.7	e10	e7.0
23	e1.6	e1.1	e1.0	e2.5	e6.6	e12	e3.0	72	e3.0	30	53	e6.1
24	e1.5	e1.1	e1.0	e2.5	e6.6	e12	e3.0	23	e3.0	112	1050	e5.4
25	e1.4	e1.0	e1.0	e2.4	e6.6	e12	e3.0	16	2.1	317	143	e5.4
26	e1.4	e1.0	e1.0	e2.4	e6.6	e12	e2.9	21	2.8	15	108	e5.4
27	e2.0	e1.0	e1.0	e2.4	e6.6	e12	e2.9	5.0	2.6	6.2	e10	e5.3
28	e1.9	e1.0	e1.0	e2.4	e6.6	e12	e2.9	e5.0	2.1	e3.2	e10	e5.3
29	e1.8	e1.0	e1.0	e2.4	e6.6	e12	e2.9	e6.0	2.2	e3.2	e10	e5.3
30	e2.0	e1.0	e1.0	e2.4	---	25	e2.9	6.6	2.1	e3.2	e10	e5.1
31	e1.9	---	e1.0	e2.4	---	26	---	42	---	e3.2	71	---
TOTAL	45.9	251.4	17.00	49.90	226.2	473.6	177.6	760.7	141.8	984.2	1699.0	1077.2
MEAN	1.48	8.38	.55	1.61	7.80	15.3	5.92	24.5	4.73	31.7	54.8	35.9
MAX	2.0	77	1.0	2.5	38	76	16	135	23	317	1050	207
MIN	1.2	1.0	.00	.90	2.3	6.6	2.9	2.9	2.1	2.1	3.2	5.1
AC-FT	91	499	34	99	449	939	352	1510	281	1950	3370	2140
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	1989	1990	1991	1992
MEAN	10.5	3.86	1.25	1.60
MAX	27.8	8.38	1.60	1.61
(WY)	1991	1992	1990	1992
MIN	1.48	1.60	.55	1.60
(WY)	1992	1990	1992	1990

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1989 - 1992

ANNUAL TOTAL	2396.40	5904.50	
ANNUAL MEAN	6.57	16.1	10.9
HIGHEST ANNUAL MEAN			16.1
LOWEST ANNUAL MEAN			8.34
HIGHEST DAILY MEAN	258	Aug 26	1050
LOWEST DAILY MEAN	.00	Dec 4	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Dec 4	.00
INSTANTANEOUS PEAK FLOW			3620
INSTANTANEOUS PEAK STAGE			7.16
ANNUAL RUNOFF (AC-FT)	4750	11710	7930
10 PERCENT EXCEEDS	1.9	35	15
50 PERCENT EXCEEDS	1.6	3.5	1.6
90 PERCENT EXCEEDS	1.0	1.0	1.6

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

b-Also accrued Dec. 5-17.

LITTLE COLORADO RIVER BASIN

09395630 PUERCO RIVER NEAR MANUELITO, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
JUL 24...	2340	--	--	1800	532	--	--	--	--	--	--	--
JUL 24-25	2340	0130	1860	--	552	7.8	140	43	7.2	61	2	3.9
25...	0010	--	--	2110	652	--	--	--	--	--	--	--
25...	0050	--	--	2050	719	--	--	--	--	--	--	--
25...	0110	--	--	1690	568	--	--	--	--	--	--	--
25...	0130	--	--	1610	476	--	--	--	--	--	--	--
AUG 24...	1030	--	--	3640	413	--	--	--	--	--	--	--
AUG 24-24	1030	1230	3370	--	410	8.0	99	31	5.0	44	2	2.9
24...	1050	--	--	2860	419	--	--	--	--	--	--	--
24...	1110	--	--	3620	418	--	--	--	--	--	--	--
24...	1130	--	--	3600	347	--	--	--	--	--	--	--
24...	1210	--	--	3430	417	--	--	--	--	--	--	--
24...	1230	--	--	3330	392	--	--	--	--	--	--	--

DATE	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	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)	ARSENIC TOTAL (UG/L AS AS) (01002)	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)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
JUL 24-25	218	12	0.70	9.7	342	1	61	<0.5	<1.0	<5	<3	<10
AUG 24-24	165	7.0	0.70	8.2	247	1	48	<0.5	<1.0	<5	<3	<10

DATE	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 TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	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)
JUL 24-25	39	<10	8	12	6.0	<10	<10	<1	<1.0	590	<6
AUG 24-24	53	<10	6	<1	2.4	<10	<10	<1	<1.0	420	<6

DATE	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)	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 YT-90) (80050)	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L (75988)	RA-226, DIS- SOLVED, FLAN- CHET COUNT (PCI/L) (09510)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)
JUL 24-25	7	4.6	1.3	3.3	0.96	7.2	1.5	5.6	1.2	<0.1	0.084
AUG 24-24	3	4.8	1.4	3.5	1.0	6.8	1.8	5.0	1.7	0.1	0.116

LITTLE COLORADO RIVER BASIN

09395630 PUERCO RIVER NEAR MANUELITO, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	URANIUM -238 WATER DISSOLV (PCI/L) (22603)	U-238 2 SIGMA WATER, DISS, (PCI/L) (75991)	U-238 SED, SUSP, TOTAL, DRY WGT (PCI/G) (75940)	U-238 2 SIGMA SED, SUSP, TOTAL, DRY WGT (PCI/G) (04113)	URANIUM -234 WATER DISSOLV (PCI/L) (22610)	U-234 2 SIGMA WATER, DISS, (PCI/L) (75992)	U-234 SED, SUSP, TOTAL, DRY WGT (PCI/G) (75942)	U-234 2 SIGMA SED, SUSP, TOTAL, DRY WGT (PCI/G) (75941)	URANIUM -235 WATER, DISS, (PCI/L) (22620)	U-235 2 SIGMA WATER, DISS, (PCI/L) (75994)	U-235 SED, SUSP, TOTAL, DRY WGT (PCI/L) (75975)
JUL 24-25	1.5	0.18	1.4	0.18	2.3	0.3	1.5	0.18	<0.1	0.02	<0.1
AUG 24-24	0.90	0.12	1.0	0.15	1.5	0.2	1.2	0.17	<0.1	0.02	<0.1
DATE	U-235 2 SIGMA SED, SUSP, TOTAL, DRY WGT (PCI/G) (75947)	SEDI- MENT, SEDIMENT, CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN (70331)	SED. SUSP. FALL DIAM. % FINER THAN (70337)	SED. SUSP. FALL DIAM. % FINER THAN (70338)	SED. SUSP. FALL DIAM. % FINER THAN (70339)	SED. SUSP. FALL DIAM. % FINER THAN (70340)	SED. SUSP. FALL DIAM. % FINER THAN (70342)	SED. SUSP. FALL DIAM. % FINER THAN (70343)	SED. SUSP. FALL DIAM. % FINER THAN (70344)
JUL 24...	--	162000	787000	65	--	--	--	--	--	--	--
JUL 24-25	0.02	--	--	--	--	--	--	--	--	--	--
25...	--	170000	969000	68	--	--	--	--	--	--	--
25...	--	147000	815000	63	--	--	--	--	--	--	--
25...	--	143000	654000	73	--	--	--	--	--	--	--
25...	--	96400	419000	68	--	--	--	--	--	--	--
AUG 24...	--	56100	551000	78	--	--	--	--	--	--	--
AUG 24-24	0.02	--	--	--	--	--	--	--	--	--	--
24...	--	46500	359000	97	--	--	--	--	--	--	--
24...	--	45800	447000	99	--	--	--	--	--	--	--
24...	--	36200	352000	100	37	41	46	54	76	96	100
24...	--	49000	453000	89	--	--	--	--	--	--	--
24...	--	40000	359000	100	--	--	--	--	--	--	--

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 mile 572.5.

DRAINAGE AREA.--1,864 mi².

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 4,655.8 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 same datum.

REMARKS.--Records good. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	79	92	403	247	445	671	372	668	81	86	112
2	114	79	90	360	260	504	700	358	641	77	87	98
3	108	77	86	328	328	759	801	363	553	77	77	89
4	102	76	85	321	424	1190	760	383	490	76	69	82
5	94	75	85	334	419	1070	737	441	445	74	63	76
6	90	75	87	645	379	985	703	558	389	71	58	74
7	88	75	87	1450	344	917	677	1020	349	69	58	72
8	87	74	83	971	335	864	680	1100	346	68	60	68
9	84	74	83	727	357	897	664	848	336	73	68	63
10	83	74	84	588	377	837	665	692	308	81	63	60
11	81	81	126	513	487	785	660	567	280	76	68	58
12	81	83	298	515	563	722	682	474	253	90	123	58
13	80	82	301	469	715	643	666	411	224	83	114	56
14	80	91	264	384	2310	598	676	371	200	75	80	58
15	78	163	220	337	1460	629	719	339	183	68	68	62
16	77	250	186	307	1010	676	668	313	171	65	61	74
17	77	271	168	289	793	711	579	292	156	61	61	70
18	76	200	268	286	649	719	500	278	147	59	63	65
19	74	162	1210	267	535	631	486	289	139	60	60	62
20	73	141	1250	252	465	550	484	328	132	64	59	64
21	74	127	918	256	437	505	431	535	126	67	69	66
22	75	118	869	248	452	496	369	533	121	79	60	63
23	76	111	742	237	529	484	329	496	118	69	61	59
24	76	107	616	225	608	472	309	709	116	99	186	56
25	74	102	620	224	547	469	303	1920	111	112	537	55
26	73	97	649	233	494	465	316	1550	105	101	415	54
27	74	95	614	246	451	482	341	1210	99	89	272	54
28	78	93	532	250	418	610	370	1040	92	82	197	53
29	75	90	480	251	413	883	379	944	89	80	158	53
30	76	89	455	248	---	825	377	838	85	86	140	52
31	78	---	439	250	---	744	---	770	---	82	123	---
TOTAL	2571	3311	12087	12414	16806	21567	16702	20342	7472	2394	3664	1986
MEAN	82.9	110	390	400	580	696	557	656	249	77.2	118	66.2
MAX	115	271	1250	1450	2310	1190	801	1920	668	112	537	112
MIN	73	74	83	224	247	445	303	278	85	59	58	52
AC-FT	5100	6570	23970	24620	33330	42780	33130	40350	14820	4750	7270	3940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1992, BY WATER YEAR (WY)

	MEAN	122	90.4	163	151	223	319	224	144	60.7	65.7	142	145
MAX	994	581	1632	893	902	1049	903	716	249	225	901	960	
(WY)	1973	1979	1979	1949	1979	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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1928 - 1992

ANNUAL TOTAL	113540	121316	
ANNUAL MEAN	311	331	155
HIGHEST ANNUAL MEAN			477
LOWEST ANNUAL MEAN			47.8
HIGHEST DAILY MEAN	3740	2310	23400
LOWEST DAILY MEAN	46	52	15
ANNUAL SEVEN-DAY MINIMUM	49	54	16
INSTANTANEOUS PEAK FLOW		2780	a35200
INSTANTANEOUS PEAK STAGE		4.35	b13.00
INSTANTANEOUS LOW FLOW			14
ANNUAL RUNOFF (AC-FT)	225200	240600	112000
10 PERCENT EXCEEDS	621	730	309
50 PERCENT EXCEEDS	197	235	74
90 PERCENT EXCEEDS	74	66	40

a-From rating curve extended above 7,000 ft³/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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	3.9	6.2	39	61	72	e179	110	91	4.1	8.4	8.8
2	3.8	3.6	5.8	35	65	82	e188	102	77	3.8	5.5	7.5
3	3.4	3.1	5.6	32	71	166	e186	97	64	3.6	4.0	6.6
4	2.9	2.9	5.0	44	71	165	e185	178	54	3.4	3.2	5.3
5	2.7	2.7	4.7	71	65	140	e180	205	47	3.0	23	4.6
6	2.5	2.5	4.6	476	58	151	e173	542	40	2.7	16	3.9
7	2.3	2.4	4.4	304	53	143	e187	482	36	2.6	7.7	3.5
8	2.1	2.1	4.4	167	54	140	e194	261	36	2.3	4.1	2.8
9	1.9	1.7	4.1	117	57	127	204	182	30	2.5	3.2	2.5
10	2.0	2.0	4.3	94	60	113	218	146	26	2.6	2.6	2.2
11	1.8	13	102	81	71	e107	233	121	23	5.1	2.0	2.0
12	1.7	5.9	142	76	72	e102	218	101	21	7.6	2.1	1.7
13	1.6	3.0	88	63	161	e98	232	88	19	4.2	2.4	1.6
14	1.5	11	61	58	367	e108	251	77	17	3.0	1.5	1.4
15	1.5	114	44	58	232	e117	206	64	16	2.4	1.1	1.5
16	1.4	107	35	53	159	e122	170	56	14	2.0	1.0	1.5
17	1.3	54	29	51	117	e130	140	49	13	1.7	1.3	1.5
18	1.3	38	150	49	95	e121	134	45	12	1.8	.90	1.1
19	1.2	28	435	45	82	e110	137	49	10	1.7	6.1	1.0
20	1.2	20	268	44	78	e94	108	95	9.7	2.1	6.6	1.4
21	1.2	16	178	46	79	e86	93	100	9.0	2.5	1.7	1.5
22	1.3	15	151	45	88	e83	92	98	8.5	6.0	.90	1.3
23	1.4	12	120	44	98	e81	96	97	8.6	7.7	2.5	1.3
24	1.5	10	92	44	89	e80	103	290	7.5	5.6	346	1.3
25	1.6	8.8	85	51	75	e100	115	314	6.9	4.8	127	1.3
26	1.6	7.9	74	60	65	e118	129	229	6.3	4.8	60	1.3
27	1.6	7.3	66	61	57	e150	131	179	5.8	6.6	34	1.3
28	3.2	6.9	57	61	55	e200	130	195	5.4	9.1	23	1.2
29	2.8	6.7	52	62	63	e190	127	170	5.0	6.4	18	1.3
30	3.3	6.5	48	62	---	e178	120	133	4.6	17	14	1.3
31	4.0	---	44	60	---	e167	---	108	---	20	11	---
TOTAL	66.1	517.9	2370.1	2553	2718	3841	4859	4963	723.3	152.7	740.80	75.5
MEAN	2.13	17.3	76.5	82.4	93.7	124	162	160	24.1	4.93	23.9	2.52
MAX	4.5	114	435	476	367	200	251	542	91	20	346	8.8
MIN	1.2	1.7	4.1	32	53	72	92	45	4.6	1.7	.90	1.0
AC-FT	131	1030	4700	5060	5390	7620	9640	9840	1430	303	1470	150
(†)	0.35	1.90	4.89	1.48	1.62	3.24	1.12	5.63	0.33	2.52	4.23	0.25
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1992, BY WATER YEAR (WY)

	MEAN	25.2	15.9	44.5	29.1	55.8	70.2	58.9	30.7	3.80	5.68	16.2	17.2
MAX	237	166	410	107	211	272	182	160	24.1	24.5	56.8	120	
(WY)	1973	1979	1979	1968	1978	1973	1992	1992	1986	1967	1975	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 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1967 - 1992

ANNUAL TOTAL	18247.46	23580.40	
ANNUAL MEAN	50.0	64.4	31.3
HIGHEST ANNUAL MEAN			97.0
LOWEST ANNUAL MEAN			1.83
HIGHEST DAILY MEAN	526	Mar 6	6000
LOWEST DAILY MEAN	.01	Jun 30	.00
ANNUAL SEVEN-DAY MINIMUM	.05	Jun 26	.00
INSTANTANEOUS PEAK FLOW			b10800
INSTANTANEOUS PEAK STAGE			a13.70
ANNUAL RUNOFF (AC-FT)	36190	46770	22710
10 PERCENT EXCEEDS	117	174	84
50 PERCENT EXCEEDS	21	36	6.9
90 PERCENT EXCEEDS	1.4	1.6	.39

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 year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE	PH WATER WHOLE FIELD	TEMPER- ATURE AIR	TEMPER- ATURE WATER	TUR- BID- ITY	BARO- METRIC PRES- SURE	OXYGEN, DIS- SOLVED	COLI- FORM, FECAL, 0.7 UM-MF	STREP- TOCOC- CI FECAL, KF AGAR	HARD- NESS TOTAL	
		(00061)	(US/CM) (00095)	(STAND- ARD UNITS) (00400)	(DEG C) (00020)	(DEG C) (00010)	(NTU) (00076)	(MM OF HG) (00025)	(MG/L) (00300)	(COLS./ 100 ML) (31625)	(COLS. PER 100 ML) (31673)	(MG/L AS CACO3) (00900)	
OCT 09...	0900	1.9	110	7.7	15.5	12.5	1.1	633	9.2	10	82	43	
JAN 16...	0830	52	92	7.9	-4.5	1.0	4.2	633	11.9	K1	K8	41	
MAY 13...	0945	95	82	7.2	24.5	11.5	3.5	629	--	K1	20	30	
SEP 02...	1015	8.2	135	7.7	24.0	15.5	0.70	631	7.9	24	56	52	
DATE		HARD- NESS NONCARB DISSOLV FLD. AS CACO3	CALCIUM DIS- SOLVED	MAGNE- SIUM, DIS- SOLVED	SODIUM, DIS- SOLVED	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED	BICAR- BONATE WATER DIS IT FIELD	CAR- BONATE WATER DIS IT FIELD	ALKA- LINITY WAT DIS TOT IT FIELD	SULFATE DIS- SOLVED	CHLO- RIDE, DIS- SOLVED	
		(MG/L AS CA) (00904)	(MG/L AS CA) (00915)	(MG/L AS MG) (00925)	(MG/L AS NA) (00930)	(00931)	(MG/L AS K) (00935)	MG/L AS HCO3 (00453)	MG/L AS CO3 (00452)	MG/L AS CACO3 (39086)	(MG/L AS SO4) (00945)	(MG/L AS CL) (00940)	
OCT 09...	2	13	2.5	5.9	0.4	0.80	50	0	41	9.6	1.3		
JAN 16...	8	12	2.6	5.0	0.3	0.70	40	0	33	17	2.1		
MAY 13...	5	8.7	2.0	4.7	0.4	0.80	30	0	25	9.6	1.5		
SEP 02...	0	15	3.4	6.4	0.4	1.1	63	0	52	55	12	0.80	
DATE		FLUO- RIDE, DIS- SOLVED	SILICA, DIS- SOLVED	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED	NITRO- GEN, NITRITE TOTAL	NITRO- GEN, NITRATE DIS- SOLVED	NITRO- GEN, NO2+NO3 TOTAL	NITRO- GEN, NO2+NO3 DIS- SOLVED	NITRO- GEN, AMMONIA TOTAL	NITRO- GEN, AMMONIA DIS- SOLVED	NITRO- GEN, ORGANIC TOTAL	NITRO- GEN,AM- MONIA + ORGANIC TOTAL
		(MG/L AS F) (00950)	(MG/L AS SIO2) (00955)	(MG/L) (70300)	(MG/L) (70301)	(MG/L AS N) (00615)	(MG/L AS N) (00613)	(MG/L AS N) (00630)	(MG/L AS N) (00631)	(MG/L AS N) (00610)	(MG/L AS N) (00608)	(MG/L AS N) (00605)	(MG/L AS N) (00625)
OCT 09...	0.40	19	82	77	<0.010	<0.010	<0.050	<0.050	<0.010	<0.010	--	<0.20	
JAN 16...	0.40	22	85	82	<0.010	<0.010	<0.050	<0.050	0.020	0.010	0.18	0.20	
MAY 13...	0.30	19	77	62	<0.010	<0.010	<0.050	<0.050	0.040	0.020	--	<0.20	
SEP 02...	0.30	22	95	92	<0.010	<0.010	<0.050	<0.050	0.020	0.010	--	<0.20	
DATE		PHOS- PHORUS TOTAL	PHOS- PHORUS DIS- SOLVED	PHOS- PHORUS ORTHO TOTAL	PHOS- PHORUS ORTHO, DIS- SOLVED	ALUM- INUM, DIS- SOLVED	BARIUM, DIS- SOLVED	COBALT, DIS- SOLVED	IRON, DIS- SOLVED	LITHIUM DIS- SOLVED	MANGA- NESE, DIS- SOLVED	MOLYB- DENUM, DIS- SOLVED	NICKEL, DIS- SOLVED
		(MG/L AS P) (00665)	(MG/L AS P) (00666)	(MG/L AS P) (70507)	(MG/L AS P) (00671)	(UG/L AS AL) (01106)	(UG/L AS BA) (01005)	(UG/L AS CO) (01035)	(UG/L AS FE) (01046)	(UG/L AS LI) (01130)	(UG/L AS MN) (01056)	(UG/L AS MO) (01060)	(UG/L AS NI) (01065)
OCT 09...	<0.010	<0.010	<0.010	<0.010	10	4	<3	14	<4	<1	<10	3	
JAN 16...	<0.010	0.030	0.010	<0.010	240	4	<3	180	<4	3	<10	<1	
MAY 13...	0.020	<0.010	0.020	0.010	220	4	<3	100	<4	2	<10	<1	
SEP 02...	0.040	0.040	0.030	0.020	40	7	<3	16	<4	4	<10	<1	

GILA RIVER BASIN

09430600 MOGOLLON CREEK NEAR CLIFF, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS AS NAT U (UG/L) (75986)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	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/ YT-90) (80050)	
OCT 09...	4	<1.0	64	<6	<0.6	0.20	<0.6	1.0	0.60	0.9	
JAN 16...	<1	<1.0	60	<6	--	--	--	--	--	--	
MAY 13...	<1	<1.0	48	<6	1.7	0.86	<0.6	1.1	0.57	0.9	
SEP 02...	<1	<1.0	83	<6	--	--	--	--	--	--	
DATE	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L 75988)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) (80060)	BETA, 2 SIGMA SED, SUSP, TOT DRY SR90Y90 (PCI/L) (76005)	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 09...	0.50	<0.6	<0.6	0.50	0.32	0.050	0.08	<1.0	3	0.02	94
JAN 16...	--	--	--	--	--	--	--	--	2	0.28	68
MAY 13...	0.48	0.6	<0.6	0.54	0.05	0.010	0.15	<1.0	15	3.8	12
SEP 02...	--	--	--	--	--	--	--	--	2	0.04	68

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 left bank 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 Mangas Creek, and at mile 539.2.

DRAINAGE AREA.--2,829 mi².

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. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	103	104	405	383	664	1080	535	855	112	104	146
2	125	94	105	359	397	715	2250	513	779	108	99	147
3	99	93	108	318	505	1570	1730	515	673	108	100	144
4	91	98	106	299	647	2360	1410	618	557	109	93	134
5	92	112	107	310	694	1890	1230	684	480	108	90	105
6	99	117	104	1720	623	1500	1090	1040	415	99	91	89
7	99	116	100	3410	579	1400	992	3130	353	92	90	89
8	98	112	101	1850	556	1290	997	2060	323	87	73	102
9	97	91	100	1070	556	1340	1000	1300	308	90	69	87
10	96	90	95	823	568	1260	1040	1000	285	95	67	87
11	92	108	97	711	640	1160	1060	894	258	101	67	84
12	81	135	218	824	759	1080	1050	785	240	100	319	78
13	78	144	309	895	981	983	1050	687	224	105	192	75
14	80	144	290	688	4450	929	1070	651	206	103	173	71
15	84	168	246	598	3230	945	1080	606	197	97	155	74
16	94	231	207	530	1770	1010	989	519	185	91	148	74
17	98	271	182	445	1440	1070	897	422	167	86	133	77
18	94	232	192	409	1120	1100	791	392	167	70	143	76
19	81	198	2260	396	925	986	722	406	153	60	142	73
20	77	148	3730	375	846	841	711	604	144	64	159	84
21	84	130	3680	382	783	805	630	675	138	83	159	79
22	94	119	2120	384	755	805	568	758	147	83	142	75
23	93	109	1090	370	838	798	511	714	154	88	139	74
24	93	104	764	333	939	795	482	874	147	111	234	65
25	86	101	1030	330	908	801	470	3240	138	115	413	63
26	73	102	1280	347	810	778	482	2970	134	110	374	63
27	78	111	970	385	704	787	520	1690	132	109	265	66
28	89	112	722	397	647	930	549	1390	129	116	215	65
29	101	110	577	400	645	1580	559	1360	123	118	194	61
30	103	105	503	397	---	1440	555	1110	117	107	177	62
31	107	---	446	385	---	1210	---	976	---	113	159	---
TOTAL	2888	3908	21943	20545	28698	34822	27565	33118	8328	3038	4978	2569
MEAN	93.2	130	708	663	990	1123	919	1068	278	98.0	161	85.6
MAX	132	271	3730	3410	4450	2360	2250	3240	855	118	413	147
MIN	73	90	95	299	383	664	470	392	117	60	67	61
AC-FT	5730	7750	43520	40750	56920	69070	54680	65690	16520	6030	9870	5100
(†)	0.38	0.55	3.84	1.36	0.72	1.68	0.95	4.79	0.37	1.67	2.02	0.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1992, BY WATER YEAR (WY)

	MEAN	225	135	339	242	389	499	321	205	63.3	76.7	217	232
MAX	1768	674	2200	1056	1231	1438	1155	1068	278	287	1182	1315	
(WY)	1973	1979	1979	1979	1983	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	47.5	22.2	
(WY)	1974	1974	1981	1971	1971	1971	1971	1971	1974	1978	1969	1978	

SUMMARY STATISTICS FOR 1991 CALENDAR YEAR FOR 1992 WATER YEAR WATER YEARS 1963 - 1992

ANNUAL TOTAL	164425	192400	
ANNUAL MEAN	450	526	245
HIGHEST ANNUAL MEAN			629
LOWEST ANNUAL MEAN			57.2
HIGHEST DAILY MEAN	6980	Mar 2	4450
LOWEST DAILY MEAN	47	Jun 28	60
ANNUAL SEVEN-DAY MINIMUM	53	Jun 24	64
INSTANTANEOUS PEAK FLOW			5290
INSTANTANEOUS PEAK STAGE			10.93
INSTANTANEOUS LOW FLOW			
ANNUAL RUNOFF (AC-FT)	326100	381600	177400
10 PERCENT EXCEEDS	897	1130	542
50 PERCENT EXCEEDS	261	252	97
90 PERCENT EXCEEDS	83	84	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.

(†) Total rainfall accumulation in inches.

GILA RIVER BASIN

09431500 GILA RIVER NEAR REDROCK, NM -- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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 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												
08...	0855	101	330	7.9	19.0	15.0	8.2	660	9.1	12	57	68
NOV												
19...	1100	197	277	8.3	11.5	10.0	16	663	10.0	<10	120	400
DEC												
03...	1300	102	310	8.2	10.0	6.5	4.0	670	11.2	<10	K6	210
JAN												
16...	1300	527	218	7.7	9.0	5.5	27	662	10.8	20	K5	41
FEB												
11...	1600	634	192	8.2	15.5	10.5	54	661	10.1	20	42	120
MAR												
10...	1030	1230	140	7.8	26.5	9.5	64	661	12.8	26	24	62
APR												
07...	1130	1000	140	7.8	32.0	14.5	90	661	9.6	30	37	74
MAY												
27...	1230	1820	146	7.8	24.5	18.0	180	658	8.3	36	500	650
JUN												
24...	1400	153	298	8.3	36.0	24.5	4.3	658	7.9	14	K1	18
JUL												
14...	1610	101	327	8.6	38.0	26.5	3.5	660	8.0	11	K6	26
AUG												
04...	1030	99	340	8.1	39.0	24.0	25	661	7.6	33	40	120
SEP												
01...	1345	147	304	8.1	36.5	24.5	11	660	7.5	<10	K15	44

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)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
OCT											
08...	110	0	34	6.8	27	1	2.2	156	0	128	27
NOV											
19...	97	0	29	5.9	26	1	1.8	126	0	104	26
DEC											
03...	110	0	34	6.8	26	1	1.6	149	0	122	33
JAN											
16...	81	1	24	5.2	16	0.8	1.5	98	0	80	24
FEB											
11...	71	0	21	4.4	13	0.7	1.2	88	0	72	21
MAR											
10...	0	0	--	--	--	--	--	62	0	51	17
APR											
07...	58	2	17	3.8	11	0.6	1.2	68	0	56	19
MAY											
27...	56	0	17	3.2	9.3	0.5	1.4	70	0	57	14
JUN											
24...	100	0	31	6.1	21	0.9	2.1	129	0	106	28
JUL											
14...	110	0	33	6.5	25	1	2.1	121	11	117	30
AUG											
04...	110	0	34	6.7	27	1	2.0	150	0	123	29
SEP											
01...	100	0	31	6.1	25	1	2.1	131	0	107	28

GILA RIVER BASIN

09431500 GILA RIVER NEAR REDROCK, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

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)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	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)
OCT 08...	10	1.5	36	220	222	36	--	<0.010	<0.010	0.110	0.097	<0.010
NOV 19...	12	1.8	--	202	165	44	0.300	0.010	--	0.310	--	0.020
DEC 03...	11	1.9	34	222	224	21	--	<0.010	<0.010	0.500	0.510	0.010
JAN 16...	8.0	1.1	--	146	128	3	0.200	0.020	--	0.220	--	0.020
FEB 11...	5.9	0.90	28	146	140	95	0.130	0.020	<0.010	0.150	0.150	0.020
MAR 10...	4.1	0.70	--	122	--	137	0.090	0.020	--	0.110	--	0.030
APR 07...	4.6	0.80	26	120	118	105	0.100	0.030	<0.010	0.130	0.100	0.060
MAY 27...	3.3	0.60	--	117	83	570	0.100	0.030	--	0.130	--	0.020
JUN 24...	7.4	1.6	--	181	161	26	--	<0.010	--	0.280	--	0.020
JUL 14...	11	1.6	--	206	180	36	--	<0.010	--	0.260	--	0.020
AUG 04...	10	1.7	34	224	220	76	0.260	0.030	<0.010	0.290	0.300	0.040
SEP 01...	9.6	1.7	--	206	168	32	0.340	0.020	--	0.360	--	0.030
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	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)	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)
OCT 08...	<0.010	--	<0.20	--	0.080	0.050	0.050	0.050	30	--	<1	--
NOV 19...	--	--	<0.20	--	0.110	--	0.050	--	--	<1	2	<1
DEC 03...	0.010	--	<0.20	--	0.070	0.060	0.050	0.050	--	--	2	<1
JAN 16...	--	0.28	0.30	0.52	0.100	--	0.070	--	--	--	<1	<1
FEB 11...	<0.010	--	<0.20	--	0.200	0.040	0.060	0.040	120	--	1	2
MAR 10...	--	0.17	0.20	0.31	0.190	--	0.070	--	--	--	<1	1
APR 07...	0.020	0.24	0.30	0.43	0.130	0.040	0.110	0.040	20	--	<1	1
MAY 27...	--	0.68	0.70	0.83	0.360	--	0.040	--	--	--	1	<1
JUN 24...	--	--	<0.20	--	0.070	--	0.050	--	--	--	1	1
JUL 14...	--	0.28	0.30	0.56	0.040	--	0.040	--	--	--	2	2
AUG 04...	0.010	--	<0.20	--	0.070	0.020	0.070	0.030	20	--	1	1
SEP 01...	--	--	<0.20	--	0.070	--	0.070	--	--	--	2	2

GILA RIVER BASIN

09431500 GILA RIVER NEAR REDROCK, NM -- Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	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)	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)
OCT 08...	17	--	30	<1	--	1	--	<3	8	--	590	7
NOV 19...	14	<10	40	<1	<1.0	3	<1	--	--	2	1400	15
DEC 03...	18	--	30	<1	<1.0	<1	<1	--	--	1	310	6
JAN 16...	10	--	20	<1	<1.0	3	<1	--	<1	3	2200	230
FEB 11...	7	--	20	<1	<1.0	3	<1	<3	8	2	3200	48
MAR 10...	<2	--	10	<1	<1.0	3	<1	--	3	2	4100	<3
APR 07...	6	--	20	<1	<1.0	4	<1	<3	10	2	3200	7
MAY 27...	8	--	20	<1	<1.0	7	<1	--	35	3	9800	99
JUN 24...	12	--	30	<1	<1.0	<1	<1	--	15	4	360	5
JUL 14...	14	--	40	<1	<1.0	<1	1	--	6	3	300	<3
AUG 04...	19	--	40	<1	<1.0	1	<1	<3	46	4	2100	4
SEP 01...	16	--	40	<1	<1.0	1	<1	--	13	3	910	19

DATE	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, 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)	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)
OCT 08...	11	--	21	30	2	<0.10	--	<10	--	1	<1	<1
NOV 19...	4	<1	--	70	1	0.20	--	--	3	--	1	<1
DEC 03...	7	3	--	20	3	<0.10	--	--	--	--	<1	<1
JAN 16...	<1	2	--	60	3	0.10	--	--	--	--	1	<1
FEB 11...	6	<1	12	100	1	<0.10	<0.1	<10	--	<1	<1	<1
MAR 10...	3	<1	--	120	<1	<0.10	--	--	--	--	<1	<1
APR 07...	4	<1	8	90	<1	<0.10	<0.1	<10	--	<1	<1	<1
MAY 27...	17	1	--	440	2	<0.10	--	--	--	--	<1	<1
JUN 24...	2	<1	--	20	1	<0.10	--	--	--	--	<1	<1
JUL 14...	<1	1	--	20	3	0.10	--	--	--	--	<1	<1
AUG 04...	6	<1	20	90	2	<0.10	<0.1	<10	--	<1	<1	<1
SEP 01...	2	<1	--	40	3	<0.10	--	--	--	--	<1	<1

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90) (80050)	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L (75988)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) (80060)	BETA, 2 SIGMA SED, SUSP. TOT DRY SR90Y90 (PCI/L) (76005)	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 08...	--	--	--	--	--	<0.02	<0.00	0.98	<1.0	61	17	29
NOV 19...	--	--	--	--	--	--	--	--	--	90	48	57
DEC 03...	--	--	--	--	--	--	--	--	--	19	5.2	70
JAN 16...	--	--	--	--	--	--	--	--	--	192	273	30
FEB 11...	--	--	--	--	--	--	--	--	--	258	442	43
MAR 10...	--	--	--	--	--	--	--	--	--	402	1340	37
APR 07...	1.3	0.55	6.1	5.7	1.2	0.03	0.010	0.43	<1.0	471	1270	25
MAY 27...	--	--	--	--	--	--	--	--	--	1750	8590	37
JUN 24...	--	--	--	--	--	--	--	--	--	20	8.3	90
JUL 14...	--	--	--	--	--	--	--	--	--	46	13	69
AUG 04...	--	--	--	--	--	--	--	--	--	91	24	96
SEP 01...	--	--	--	--	--	--	--	--	--	49	19	83

GILA RIVER BASIN

09431500 GILA RIVER NEAR REDROCK, NM -- Continued

WATER-QUALITY RECORDS

CROSS SECTION ANALYSES, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (000009)	STREAM DEPTH, MEAN (FT) (000064)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (000061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (000095)	PH (STAND- ARD UNITS) (000400)	TEMPER- ATURE WATER (DEG C) (000010)	OXYGEN, DIS- SOLVED (MG/L) (000300)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT									
08...	1158	6	0.60	4.5	328	8.25	16.9	9.2	24
08...	1159	12	0.50	4.9	328	8.24	16.8	9.2	17
08...	1202	18	0.60	4.8	329	8.25	16.7	9.2	38
08...	1203	24	0.80	11	328	8.23	16.6	9.2	16
08...	1205	30	1.20	15	328	8.24	16.6	9.2	22
08...	1207	36	0.90	13	328	8.23	16.6	9.2	27
08...	1208	42	0.90	13	328	8.24	16.5	9.2	20
08...	1210	48	1.00	16	327	8.23	16.5	9.2	46
08...	1212	54	1.04	15	326	8.23	16.6	9.2	16
08...	1213	60	.54	4.5	320	8.23	16.9	9.1	2

GILA RIVER BASIN

09442680 SAN FRANCISCO RIVER NEAR RESERVE, NM

LOCATION.--Lat 33°44'12", long 108°46'14", in NE¼NW¼SE¼ 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. 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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	7.3	8.9	17	20	71	113	8.4	176	7.9	8.9	10
2	6.5	6.8	8.5	15	22	81	112	8.9	127	8.1	8.3	9.0
3	6.2	6.6	9.5	18	26	153	116	9.0	98	7.8	6.6	7.4
4	6.5	5.7	8.6	18	28	149	93	9.0	86	7.7	6.3	6.9
5	6.6	5.2	9.0	18	27	131	84	24	72	7.1	9.7	6.6
6	6.2	5.5	9.0	39	26	145	77	494	57	8.3	11	5.9
7	6.2	4.7	9.1	49	26	139	70	668	47	7.3	11	5.3
8	5.1	4.6	9.2	34	27	162	68	337	55	8.1	13	3.9
9	6.3	6.0	9.5	30	29	158	62	240	60	9.2	9.7	3.0
10	6.1	7.8	9.7	28	34	140	55	171	56	21	7.8	3.7
11	5.0	17	48	30	42	141	53	131	45	14	7.4	4.0
12	3.9	9.4	42	26	46	120	45	88	38	10	6.2	4.1
13	4.9	8.2	37	23	62	113	39	68	30	11	6.1	3.2
14	4.9	13	27	22	93	129	36	56	24	10	4.8	3.4
15	5.0	49	22	22	78	152	37	46	22	8.5	4.1	3.6
16	4.4	36	19	21	72	160	39	38	18	8.0	4.6	4.5
17	4.9	21	17	21	58	172	41	34	17	7.8	4.7	4.2
18	4.9	16	23	20	51	154	36	30	18	6.8	3.4	4.3
19	5.2	15	56	17	47	121	34	32	17	9.1	2.6	5.6
20	5.8	14	72	20	44	108	33	83	15	12	3.0	6.8
21	4.7	13	55	22	49	116	27	129	13	9.0	1.9	4.7
22	5.8	13	45	21	57	121	23	155	13	7.6	1.9	3.9
23	7.6	13	35	17	84	114	19	141	12	9.2	5.3	3.8
24	7.0	11	31	18	83	109	16	161	13	19	236	3.7
25	5.0	11	29	18	69	100	15	176	13	37	162	4.1
26	7.1	11	26	20	64	97	14	237	11	27	73	4.3
27	7.3	10	22	18	56	98	13	187	10	16	42	3.9
28	7.8	10	20	19	55	104	11	173	9.8	13	26	3.4
29	5.2	9.8	21	19	62	105	9.5	171	9.4	12	20	4.9
30	6.0	8.9	18	19	---	95	8.4	325	9.2	8.8	15	3.9
31	7.1	---	18	19	---	105	---	258	---	9.6	13	---
TOTAL	181.7	369.5	774.0	698	1437	3863	1398.9	4688.3	1191.4	357.9	735.3	146.0
MEAN	5.86	12.3	25.0	22.5	49.6	125	46.6	151	39.7	11.5	23.7	4.87
MAX	7.8	49	72	49	93	172	116	668	176	37	236	10
MIN	3.9	4.6	8.5	15	20	71	8.4	8.4	9.2	6.8	1.9	3.0
AC-FT	360	733	1540	1380	2850	7660	2770	9300	2360	710	1460	290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1992, BY WATER YEAR (WY)

	MEAN	32.6	17.9	22.0	18.5	36.1	78.5	59.0	21.8	6.86	9.22	16.9	20.4
MAX	430	211	159	77.7	178	336	398	162	39.7	28.3	79.2	172	
(WY)	1984	1979	1979	1985	1968	1985	1973	1973	1992	1967	1967	1983	
MIN	3.27	5.18	5.11	5.68	5.14	4.24	3.38	2.75	1.39	1.80	4.55	4.87	
(WY)	1983	1976	1978	1970	1964	1971	1967	1967	1990	1971	1961	1992	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1960 - 1992
ANNUAL TOTAL	10188.3	15841.0	
ANNUAL MEAN	27.9	43.3	28.3
HIGHEST ANNUAL MEAN			101
LOWEST ANNUAL MEAN			6.07
HIGHEST DAILY MEAN	445	Mar 6	5000
LOWEST DAILY MEAN	2.0	Aug 4	.86
ANNUAL SEVEN-DAY MINIMUM	3.0	Aug 26	.98
INSTANTANEOUS PEAK FLOW			b9830
INSTANTANEOUS PEAK STAGE			a11.71
INSTANTANEOUS LOW FLOW			.78
ANNUAL RUNOFF (AC-FT)	20210	31420	20490
10 PERCENT EXCEEDS	61	121	56
50 PERCENT EXCEEDS	10	18	8.6
90 PERCENT EXCEEDS	4.6	4.9	3.7

a-11.3 ft from outside floodmarks.

b-From rating curve extended above 1,400 ft³/s on basis of slope-area measurement of peak flow.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	3.0	3.0	3.0	3.2	3.9	16	3.1	3.2	3.2	3.0	3.0
2	2.9	3.0	3.0	3.0	3.3	4.1	13	3.1	3.0	3.2	3.0	3.0
3	2.9	2.9	3.0	3.0	3.2	5.7	14	3.2	3.0	3.2	3.0	2.9
4	2.8	3.0	3.0	3.1	3.2	8.8	11	3.2	3.0	3.2	3.1	2.9
5	2.8	3.8	3.0	3.1	3.3	6.2	12	3.1	3.0	3.3	2.9	2.9
6	2.8	2.9	3.0	3.2	3.3	5.4	27	3.5	3.0	3.3	3.0	2.9
7	2.8	2.9	3.0	3.1	3.3	5.0	20	3.2	3.0	3.1	3.1	2.9
8	2.8	2.9	3.0	3.0	3.3	5.3	9.3	3.2	3.1	3.1	3.0	2.9
9	2.8	2.9	3.0	3.0	3.3	6.0	4.5	3.1	3.0	3.1	3.0	2.9
10	2.8	3.1	3.0	3.0	3.3	6.5	3.8	3.2	3.0	3.0	3.0	2.9
11	2.8	3.0	3.4	3.1	3.3	10	3.4	3.1	3.0	3.1	3.0	2.9
12	2.8	3.0	3.1	3.2	4.8	7.1	3.5	3.1	3.0	3.1	3.0	2.9
13	2.8	3.0	3.1	3.0	7.3	6.1	3.4	3.0	3.0	3.0	3.0	2.9
14	2.8	3.2	3.0	3.0	11	5.5	3.4	3.0	2.9	2.9	3.2	3.0
15	2.8	3.8	3.0	3.0	5.7	5.0	3.3	3.0	2.9	2.9	3.1	3.3
16	2.8	3.0	3.1	3.1	4.6	5.1	3.3	3.0	2.9	2.9	3.0	2.9
17	2.8	3.0	3.1	3.1	4.1	5.2	3.3	3.2	2.9	2.9	3.0	2.9
18	2.8	3.1	3.1	3.1	3.8	5.1	3.3	2.9	2.9	2.9	3.0	3.0
19	2.8	3.0	3.1	3.1	3.6	4.6	3.3	3.2	2.9	2.9	3.0	3.0
20	2.9	3.0	3.0	3.1	3.6	4.2	3.2	15	2.9	3.0	3.1	3.0
21	2.9	3.0	3.1	3.1	3.6	3.9	3.2	5.7	2.9	3.4	3.0	3.0
22	2.9	3.0	3.0	3.1	4.4	3.8	3.2	4.0	2.9	5.8	3.0	3.0
23	2.9	3.0	3.0	3.1	5.7	3.8	3.2	3.3	3.0	12	3.3	3.0
24	2.9	3.0	3.0	3.1	5.2	3.8	3.2	3.3	2.9	12	3.5	3.0
25	2.9	3.0	3.1	3.1	4.6	3.8	3.2	3.1	2.9	13	3.1	3.0
26	3.0	3.0	3.0	3.2	4.4	4.1	3.2	3.2	2.9	12	3.1	3.0
27	3.0	3.0	3.0	3.2	4.0	11	3.2	3.1	2.8	12	3.0	3.0
28	3.0	3.0	3.0	3.2	3.8	6.7	3.1	3.1	3.0	12	3.0	3.0
29	2.9	2.9	3.0	3.2	3.8	18	3.1	3.1	3.1	9.3	3.0	3.0
30	3.1	3.0	3.0	3.2	---	40	3.1	3.2	3.1	2.9	3.0	3.0
31	3.0	---	3.1	3.2	---	29	---	3.2	---	3.0	3.0	---
TOTAL	88.9	91.4	94.3	96.0	124.0	242.7	195.7	112.7	89.1	158.7	94.5	89.0
MEAN	2.87	3.05	3.04	3.10	4.28	7.83	6.52	3.64	2.97	5.12	3.05	2.97
MAX	3.1	3.8	3.4	3.2	11	40	27	15	3.2	13	3.5	3.3
MIN	2.8	2.9	3.0	3.0	3.0	3.8	3.1	2.9	2.8	2.9	2.9	2.9
AC-FT	176	181	187	190	246	481	388	224	177	315	187	177

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1992, BY WATER YEAR (WY)

	MEAN	3.38	2.99	3.46	3.04	3.90	5.13	5.11	3.00	2.87	3.02	2.95	2.98
MAX	10.6	3.87	7.72	3.60	10.8	17.2	24.2	3.64	3.15	5.12	3.41	3.65	
(WY)	1984	1973	1985	1981	1968	1985	1973	1992	1979	1992	1987	1976	
MIN	2.59	2.62	2.63	2.32	2.49	2.41	2.33	2.66	2.41	2.45	2.47	2.49	
(WY)	1983	1984	1984	1984	1984	1984	1984	1984	1985	1986	1986	1968	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1966 - 1992

ANNUAL TOTAL	1307.5	1477.0	
ANNUAL MEAN	3.58	4.04	3.49
HIGHEST ANNUAL MEAN			5.74
LOWEST ANNUAL MEAN			2.73
HIGHEST DAILY MEAN	15	40	186
LOWEST DAILY MEAN	2.8	2.8	2.0
ANNUAL SEVEN-DAY MINIMUM	2.8	2.8	2.2
INSTANTANEOUS PEAK FLOW		74	b660
INSTANTANEOUS PEAK STAGE		2.31	a3.90
INSTANTANEOUS LOW FLOW			1.1
ANNUAL RUNOFF (AC-FT)	2590	2930	2530
10 PERCENT EXCEEDS	3.8	5.4	3.4
50 PERCENT EXCEEDS	3.1	3.1	2.9
90 PERCENT EXCEEDS	2.9	2.9	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 height 3.13 ft and 3.90 ft.

GILA RIVER BASIN

09444000 SAN FRANCISCO RIVER NEAR GLENWOOD, NM

LOCATION.--Lat 33°14'48", long 108°52'47", in NE¼NW¼ sec.23, T.12 S., R.20 W., Catron County, Hydrologic Unit 15040004, on left bank 0.2 mi upstream from hot springs, 5 mi south of Glenwood, 6 mi downstream from Whitewater Creek, and at mile 511.5.

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 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	30	49	110	102	217	437	217	478	40	40	69
2	39	32	49	106	105	234	505	213	370	40	37	56
3	39	32	48	102	111	380	489	200	304	40	36	52
4	39	34	48	102	125	593	447	217	274	39	36	50
5	40	36	48	102	133	543	409	235	239	39	31	46
6	40	35	47	398	132	538	376	610	212	39	35	42
7	38	33	48	642	132	537	352	1500	199	38	36	41
8	40	31	48	389	136	542	341	1040	215	39	36	40
9	38	30	48	307	142	638	345	748	213	47	36	39
10	39	31	49	259	152	636	354	577	197	44	32	37
11	39	46	92	225	179	639	361	472	180	42	31	37
12	40	49	300	231	210	606	370	391	158	46	33	36
13	40	51	175	207	465	533	376	334	137	47	35	35
14	38	50	119	e170	1460	504	416	295	124	42	36	35
15	37	51	96	e155	785	506	407	258	111	41	49	38
16	38	107	80	145	571	514	370	236	103	39	41	38
17	39	101	72	e135	464	522	329	217	93	37	34	36
18	39	70	81	e123	375	521	305	201	85	34	39	36
19	40	55	299	e119	290	475	300	217	80	36	35	36
20	40	52	698	e118	e270	411	274	583	76	36	31	38
21	37	51	474	e117	e250	381	244	705	73	35	31	37
22	39	50	385	e110	e240	369	222	585	69	38	32	35
23	37	49	292	113	e230	355	209	435	64	37	43	36
24	39	49	224	108	e228	340	202	630	54	65	617	38
25	37	48	197	106	e230	330	197	633	45	77	501	36
26	37	48	189	107	231	320	214	598	45	76	235	35
27	35	49	174	108	229	326	226	527	43	74	156	33
28	34	49	147	106	214	368	222	598	43	56	119	36
29	32	48	132	104	208	383	222	678	43	55	99	36
30	34	49	122	101	---	422	225	725	42	44	90	32
31	32	---	115	102	---	441	---	618	---	41	77	---
TOTAL	1175	1446	4945	5327	8399	14124	9746	15493	4369	1403	2719	1191
MEAN	37.9	48.2	160	172	290	456	325	500	146	45.3	87.7	39.7
MAX	40	107	698	642	1460	639	505	1500	478	77	617	69
MIN	32	30	47	101	102	217	197	200	42	34	31	32
AC-FT	2330	2870	9810	10570	16660	28010	19330	30730	8670	2780	5390	2360
e Estimated												

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1928	88.9	2026	1984	9.77	1966
1929	44.8	520	1979	10.8	1957
1930	85.4	1068	1979	12.9	1954
1931	78.2	509	1979	13.5	1956
1932	116	602	1979	14.9	1956
1933	194	1036	1985	11.3	1959
1934	146	1049	1973	10.2	1957
1935	77.9	593	1973	8.65	1956
1936	28.9	146	1992	5.70	1956
1937	38.4	108	1930	13.2	1963
1938	79.4	392	1957	13.7	1960
1939	60.2	368	1988	7.66	1956

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1928 - 1992
ANNUAL TOTAL	67299	70337	
ANNUAL MEAN	184	192	86.4
HIGHEST ANNUAL MEAN			351
LOWEST ANNUAL MEAN			13.9
HIGHEST DAILY MEAN	4460	1500	27500
LOWEST DAILY MEAN	24	30	2.5
ANNUAL SEVEN-DAY MINIMUM	26	32	3.9
INSTANTANEOUS PEAK FLOW		2190	b37100
INSTANTANEOUS PEAK STAGE		5.62	a18.15
INSTANTANEOUS LOW FLOW			1.5
ANNUAL RUNOFF (AC-FT)	133500	139500	62630
10 PERCENT EXCEEDS	470	505	170
50 PERCENT EXCEEDS	75	103	31
90 PERCENT EXCEEDS	31	36	15

a-Recorded, 20.80 ft from outside floodmarks.

b-From rating curve extended above 4,200 ft³/s on basis of slope-area measurements at gage height 10.74 ft,

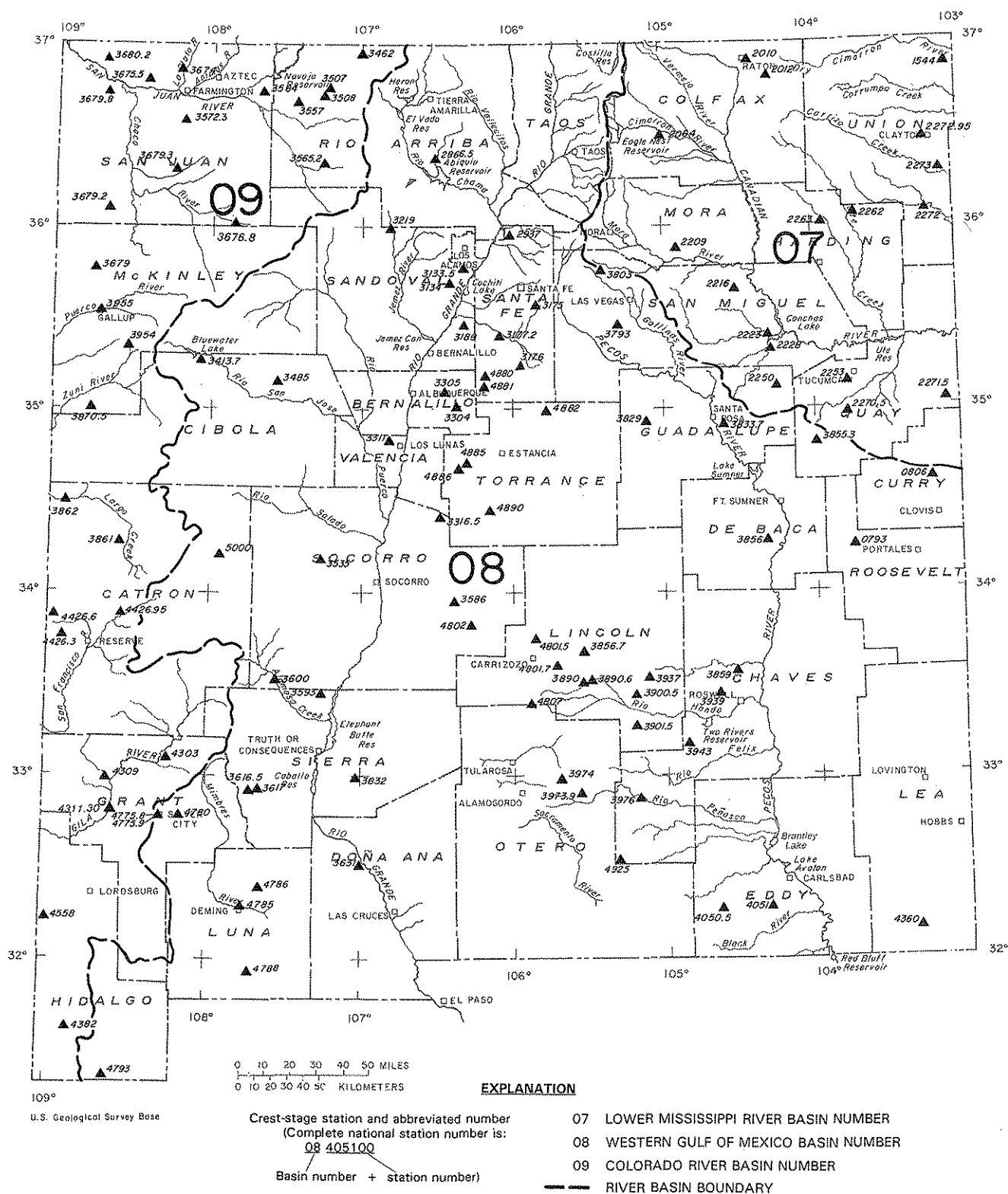


Figure 7.--Location of partial-record stations.

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 generally made 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 1992 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								
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-	07-21-92 08-05-90 06-02-89 07-05-88 07-12-87 09-29-86 05-22-85	5.77 h4.33 h6.41 h4.01 3.25 h4.04 3.40	2,430 h1,230 h3,100 h1,020 h615 h1,070 h690	07-06-58	12.22	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-	08-24-92	0.74	86	06-17-65	14.80	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-	08-11-92	4.80	40	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-	05-25-92	1.51	13	06-18-65	3.05	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-	08-20-92	7.27	374	07-08-82	14.90	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-	08-18-92	1.76	100	07-07-82	5.42	1,130
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-	09-17-92	2.25	130	09-11-65	12.00	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 1992 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 mi ² .	1971-	07-18-92	4.82	130	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 mi ² .	1954-	06-23-92	3.39	758	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 mi ² .	1971-	07-27-92	5.93	235	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 mi ² .	1957-	07-23-92	4.23	495	07-17-72	12.77	5,800
Carrizo 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 mi ² .	1954-	08-31-92	5.23	795	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 mi ² .	1952-	07-26-92	5.76	89	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 mi ² .	1961-	08-18-92	8.08	1,050	08-10-91	9.19	1,450
Tramperos Creek near Stead. (07227200)	Lat 36°04'15", long 103°12'10", in NWqNWq 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 mi ² .	1966-73* 1974-	08-17-92	4.54	202	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 mi ² .	1952-	08-17-92	2.48	93	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 mi ² .	1953-	- -93	---	(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 drainage area	Period of record	Water year 1992 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
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 mi ² .	1963-	05-23-92	0.32	3	- -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 mi ² .	1953-56 1957-64* 1965-	06-20-92	2.78	13	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 mi ² .	1965-	08-18-92	3.16	288	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 mi ² .	1971-	- -92	---	(k)	07-28-74	10.62	508
Rito de los Frijoles in Bandelier National Monument. (08313350)	Lat 35°46'35", long 106°16'06", Sandoval County, Hydrologic Unit 13020201, in Bandelier National Monument, downstream from Monument headquarters, 6.5 mi south of Los Alamos, and 18.5 mi northwest of Santa Fe. Drainage area is 18.1 mi ² .	1963-69* 1977-82* 1983-	09-15-92	3.44	65	07-21-78	6.34	3,030
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 mi ² .	1962-	08-11-92	1.41	9	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 mi ² .	1955-56 1959-	07-31-92	2.87	727	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 mi ² .	1955-	05-30-92	d7.89	(+)	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 Cerrillos, and 4.8 mi northwest of Galisteo. Drainage area is 1.81 mi ² .	1970-	05-30-92	3.51	218	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 1992 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 mi ² .	1953-	- -92	(e)	(+)	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 mi ² .	1957-	05-10-92	4.06	303	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 mi ² .	1959-	- -92	<0.73	<7	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 mi ² .	1943-48* 1958-	- -92	<1.83	<250	06-24-67	6.85	6,500
Belen Highline Canal tributary near Los Lunas. (08331100)	Lat 34°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 mi ² .	1952-53 1955-	08-11-92	5.07	220	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 35 mi ² .	1961-	- -92	<0.93	<50	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 mi ² .	1969-	05-09-92	1.61	6	04- -73	3.21	148
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 mi ² .	1937-39* 1959-	- -92	<1.31	<11	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 mi ² .	1957-	05-20-92	3.46	1,700	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 mi ² .	1961-	08-11-92	2.25	195	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 number	Location and drainage area	Period of record	Water year 1992 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 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 mi ² .	1959-	-	-92	<1.52	<914	06-10-88	6.09	5,070
			-	-91	<1.52	<914			
			-	-90	<1.52	<914			
			-	-89	<1.52	<914			
			06-10-88	6.09	5,070				
			06-09-87	1.60	948				
			10-11-85	1.99	1,180				
			06-29-81	1.62	956				
			09-09-80	2.52	1,510				
			09-11-75	5.50	4,300				
			09-02-68	2.10	1,250				
			09-24-67	2.38	1,420				
			06-29-66	2.95	1,860				
			09-12-65	2.57	1,550				
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 mi ² .	1931-42* 1956-58 1958-71* 1973-	09-14-92	3.02	160	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 mi ² .	1953-	-	-92	<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 mi ² .	1957-78 1980-	11-12-92	3.84	880	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 mi ² .	1955-	09-14-92	5.42	140	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 mi ² .	1959-	09-14-92	4.27	550	08-07-67	19.10	16,400	
Tecolote Creek at Tecolote. (08379300)	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 mi ² .	1954-	-	-92	<4.89	<327	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 mi ² .	1957 1961-	06-21-92	1.94	165	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 mi ² .	1961-	05-18-92	d0.63	5	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 1992 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-	07-05-92	6.63	74	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-	07-18-92 08-10-91	1.07 2.16	2 29	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-	07-09-92	0.74	185	10-07-54	11.60	14,800
Aragon Creek tributary near Encinosa. (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 Encinosa. Drainage area is 6.07 mi ² .	1961-	- -92	---	(k)	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-	- -92	<1.20	(+)	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 a85 mi ² .	1955-	06-20-92	4.11	341	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-	- -92	<2.88	(+)	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-	- -92	<3.80	(+)	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-	- -92	<2.42	(+)	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 drainage area	Period of record	Water year 1992 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								
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 mi ² .	1962-	- -92	<2.21	(+)	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 mi ² .	1941 1952-	- -92 07-13-91	--- h17.80	(k) h10,300	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 mi ² .	1968-	05-22-92	3.06	275	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 mi ² .	1959-	- -92	<-1.62	(+)	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 mi ² .	1953-	- -92	<1.00	(+)	08-10-67	1.56	86
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 mi ² .	1952-56 1956-62* 1963-	05-23-92	6.08	118	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 mi ² .	1959-	09-15-92	2.48	88	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 mi ² .	1959-	06-08-92	3.13	470	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 a20 mi ² .	1963-	07-27-92 07-24-91 04-22-90 06-29-89 07-08-88 08-22-86 10-21-69 -- -- 67 08-23-66 -- -- 65	2.98 1.50 1.91 1.95 1.22 1.38 h4.40 2.34 4.15 2.80	118 86 24 26 3 6 395 52 330 95	10-21-69	4.40	395

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 1992 maximum		Period of record maximum	
			Date	Gage height (ft)	Date	Gage height (ft)
				Dis- charge (ft ³ /s)		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 mi ² .	1958-	- -92	<1.11	<20	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 mi ² .	1958-	- -92	<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 mi ² .	1954-	08-09-92	3.88	840	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 mi ² .	1954-79 1983-	04-02-92	6.46	720	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 mi ² .	1959-	08-09-92	2.10	125	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 mi ² .	1967-	08-09-92	2.54	38	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 mi ² .	1959-	03-03-92	1.66	225	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 mi ² .	1959- 1961-	09-15-92	3.01	1,120	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 mi ² .	1968-	- -92	<2.22	<15	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 and number	Location and drainage area	Period of record	Water year 1992 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (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 mi ² .	1961-	08-11-92	1.12	64	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 mi ² .	1956-58* 1959-	09-15-92 07-14-91	5.10 12.08	358 3,000	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 mi ² .	1955 1961-	05-19-92	6.97	(+)	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 mi ² .	1962-	- -92	---	(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 mi ² .	1961-	07-22-92	1.89	160	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 mi ² .	1954-	05-10-92	3.01	3,000	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 mi ² .	1969-	05-10-92	2.29	155	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 mi ² .	1953-	08-18-92 09-10-91	3.48 h3.36	8 h6	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 mi ² .	1959-	- -92	<3.76	<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 1992 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 mi ² .	1970-72 1976-	08-11-92	3.64	1	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 mi ² .	1956-	05-10-92	5.95	980	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 mi ² .	1970-	- -92	<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 mi ² .	1956-	11-16-92	2.97	145	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 mi ² .	1956-	- -92	<3.71	<400	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 mi ² .	1956-	- -92 - -91	<1.48 <1.48	<200 h<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 mi ² .	1970-	08-25-92	13.08	105	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 mi ² .	1975-	- -92	<2.65	<17	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 mi ² .	1970-	11-17-91	2.18	24	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 mi ² .	1970-	05-10-92 09-06-91	11.57 15.09	(+) (+)	07-20-86	15.13	1,470

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 1992 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
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 mi ² .	1976-90* 1991-	- -92	(e)	(+)	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 mi ² .	1954-78 1979-82* 1983-	08-24-92	4.44	1,550	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 mi ² .	1967-	08-24-92	3.45	(+)	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 mi ² .	1975-82* 1983-	08-25-92	3.29	350	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-	08-24-92	4.17	530	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-	05-10-92	1.77	150	08-06-88	1.87	190
LITTLE COLORADO RIVER BASIN								
Largo Creek near Quemado. (09386100)	Lat 34°19'25", long 108°31'40", Catron County, Hydrologic Unit 15020003, on downstream side of bridge on ranch road, 2.5 mi southwest of Quemado. Drainage area is 151 mi ² .	1954-	05-20-92	3.12	(+)	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 1560 mi ² .	1957-	05-09-92	0.65	250	08-25-59	7.82	8,380
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 119 mi ² .	1957-	05-09-92	1.32	36	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 1992 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 mi ² .	1949-	- -92	<0.08	<10	- -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 mi ² .	1940-46* 1957-77 1977-82* 1983-	08-24-92	3.64	170	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 mi ² .	1963-	- -92	<2.19	<80	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 mi ² .	1957-	08-09-92	5.63	2,800	07-30-71	11.03	6,900
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-	08-24-92 07-30-91 09-07-90 07-03-89 08-16-88	4.09 6.18 5.04 4.72 3.03	78 h240 h140 h115 h30	07-30-91	6.18	h240
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 mi ² .	1959-	12-21-91	5.98	1,450	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 mi ² .	1970-	08-24-92	2.99	64	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 mi ² .	1954-	05-09-92	2.27	280	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 mi ² .	1958-	05-09-92	1.59	245	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 and number	Location and drainage area	Period of record	Water year 1992 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
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-	07-22-92	2.24	98	09-03-65	4.80	317

< 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 1992

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
RIO GRANDE BASIN						
Santa Clara Creek above Turkey Creek	Rio Grande	Lat 35°58'53", long 106°23'53", Sandoval County, Hydrologic Unit 13020101, on Santa Clara Indian Reservation 100 ft above confluence with Turkey Creek, 500 ft downstream from Grant Boundary, 7.5 mi west of Santa Clara Ranger Station and 19 mi southwest of Espanola.	5.98	1990-	05-07-92 06-10-92 07-06-92 08-05-92 09-04-92	5.07 0.91 0.56 0.60 0.70
Turkey Creek 08291900	Santa Clara Creek	Lat 35°58'53", long 106°23'57", Sandoval County, Hydrologic Unit 13020101, on Santa Clara Indian Reservation, at mouth, 400 ft downstream from Grant Boundary, 7.5 mi west of Santa Clara Ranger Station and 19 mi southwest of Espanola.	3.28	1984-87 1990-	05-07-92 06-10-92 07-06-92 08-05-92 09-04-92	2.83 1.56 0.76 0.86 0.92
Santa Clara Creek below Turkey Creek 08291950	Rio Grande	Lat 35°58'43", long 106°23'37", Sandoval County, Hydrologic Unit 13020101, on Santa Clara Indian Reservation, 700 ft below confluence with Turkey Creek, 0.3 mi downstream from Grant Boundary, 7.5 mi west of Santa Clara Ranger Station and 19 mi southwest of Espanola.	10.5	1984-87 1990-	05-07-92 06-10-92 07-06-92 08-05-92 09-04-92	7.86 2.96 1.53 1.72 1.81
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	07-08-92 11-26-91	0.37 0.66
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-	10-29-91 01-15-92 05-06-92 07-24-92	4.64 5.26 4.05 3.29
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-	10-01-91 01-07-92 04-10-92 07-27-92	16.0 15.7 15.9 15.8
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-	10-01-91 01-07-92 04-10-92 07-27-92	1.00 2.74 2.07 1.39
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-	10-07-91 01-07-92 02-12-92 04-08-92 09-01-92	3.60 4.00 3.90 4.20 4.10

RIO GRANDE BASIN

Rio Grande Seepage Investigation

REACH.--The seepage investigation was conducted along a 34.5-mile reach on the Rio Grande downstream from Leasburg Dam near Radium Springs, New Mexico, to the highway bridge on NM State Road 227 near Vado, New Mexico. The river has been channelized through much of this reach and the gradient is quite flat. About 71,000 acres are irrigated in the Mesilla Valley between Leasburg Dam and El Paso, with ground-water withdrawals used to supplement the surface-water supply.

PREVIOUS INVESTIGATIONS.--A seepage investigation of the reach between the gaging station "below Caballo Dam" (08362500) and a site 0.3 mi upstream from the gaging station "at El Paso" (08364000) was conducted by the U.S. Geological Survey on February 12-13, 1974. A seepage investigation of the reach from mile 1,312.3 to 1,249.9 was conducted on January 5-6, 1988, January 10-11, 1989, January 9-10, 1990, and January 8-9, 1991.

DATE.--December 17, 1991.

WEATHER.--Weather was favorable for the seepage investigation on December 17, but light rain occurred throughout the Mesilla Valley on December 18, with intermittent heavy rain showers at El Paso, Texas. No measurable precipitation occurred. Temperature extremes at Las Cruces, New Mexico, ranged from a low of 2.0 degrees Celsius to a high of 11.0 degrees Celsius on December 17. Precipitation did not affect streamflow conditions.

STREAMFLOW.--The seepage investigation was conducted during a period of constant base flow. Discharge measurements indicate a net seepage loss of 12.8 cubic feet per second from river mile 1,312.3 to river mile 1,277.8. Indicated gains and losses throughout the reach are shown in the following table. Tributary flow recorded as inflow is considered a contribution and not a gain; no outflow (diversions) occurred during the investigation. Evaporation from the water surface of the river in December is considered negligible.

REMARKS.--The seepage investigation is rated good on the basis of steady streamflow conditions. Recorded river stage in the Rio Grande at the New Mexico 227 Bridge near Vado, New Mexico (site 17) showed no change in gage height during the seepage investigation. Indicated gains or losses may be significantly in error as affected by small inaccuracies in open-channel discharge measurements.

River mile	Stream	Location	Time	Water temp (°C)	Specific conduct- ance (uS/cm)	Discharge, in ft ³ /s		
						Main stream	Inflow	Gain or loss
December 17, 1991								
1,312.3	Rio Grande	Below Leasburg Dam near Radium Springs, NM Lat 32°28'41", long 106°55'10"	1020	6.0	1,480	43.2		--
1,310.2	Rio Grande	Near Leasburg, NM Lat 32°27'21", long 106°54'08"	1200	7.0	1,450	48.9		+5.7
*1,307.6	Selden Drain	Near Leasburg, NM Lat 32°25'38", long 106°52'50"	1215	--	--		0	--
1,306.3	Rio Grande	Near Hill, NM Lat 32°25'05", long 106°52'01"	1340	7.0	1,530	55.3		+6.4
1,302.7	Rio Grande	At Shalem Bridge near Dona Ana, NM Lat 32°22'34", long 106°51'16"	1500	8.0	1,520	55.1		-0.2
*1,301.2	Wasteway no. 5	Near Dona Ana, NM Lat 32°22'14", long 106°50'14"	1520	--	--		0	--
1,298.8	Rio Grande	Near Picacho, NM Lat 32°20'18", long 106°50'09"	0925	5.0	1,500	58.5		+3.4
1,295.6	Rio Grande	Below Picacho Bridge near Las Cruces, NM Lat 32°17'45", long 106°49'25"	1025	5.0	1,580	55.2		-3.3
*1,295.4	Wastewater inflow	City of Las Cruces, NM Lat 32°17'35", long 106°49'26"	1100	--	1,020		1.5	--
1,293.1	Rio Grande	At NM-359 Bridge near Mesilla, NM Lat 32°15'49", long 106°49'29"	1145	7.0	1,510	59.4		-7.3
*1,291.8	Picacho Drain	Above Mesilla Dam Lat 32°14'34", long 106°48'56"	1315	7.0	1,400		4.30	--
1,291.7	Rio Grande	Below Picacho Drain Lat 32°14'30", long 106°48'49"	1400	9.0	1,520	52.8		-10.9
1,289.5	Rio Grande	Below Mesilla Dam Lat 30°13'17", long 106°47'15"	1040	5.5	1,540	45.6		-7.2
1,287.3	Rio Grande	At NM-28 Bridge near San Pablo, NM Lat 32°12'24", long 106°45'32"	1300	8.5	1,500	46.1		+0.5
*1,283.6	Santo Tomas River Drain	Near San Miguel, NM Lat 32°10'16", long 106°43'11"	1330	--	--		0	--
1,282.7	Rio Grande	At NM-228 Bridge near San Miguel, NM Lat 32°09'43", long 106°42'58"	1520	9.5	1,490	50.6		+4.5
1,277.8	Rio Grande	At NM-227 Bridge near Vado, NM Lat 32°06'48", long 106°40'05"	1525	11.0	1,490	46.2		-4.4

* River mile at mouth of drain or point of discharge.

† Reported discharge.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Water-quality partial-record stations are particular sites where chemical-quality, biological and/or sediment data are collected systematically over a period of years for use in hydrologic analyses. These data are collected usually less than quarterly. Samples collected at sites other than gaging stations and partial-record stations to give better areal coverage in a river basin are referred to as miscellaneous sites.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

CANADIAN RIVER BASIN

LAKE 13 OUTLET, MAXWELL NATIONAL WILDLIFE REFUGE NR MAXWELL, NM (363440104345010)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	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)
JUN 15...	1730	1300	7.6	19.0	450	82	60	120	2	5.7	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)	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)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
JUN 15...	490	22	0.40	950	880	<0.010	<0.050	0.040	<0.010	2	
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)
JUN 15...	80	<1.0	<1	1	<1	<0.1	3	<1	2	<3	

DRAIN BL LAKE 13, MAXWELL NATIONAL WILDLIFE REFUGE NR MAXWELL, NM (363436104344910)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	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)
JUN 15...	1715	1460	7.6	18.5	490	110	53	140	3	5.0	213
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)	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)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
JUN 15...	540	24	0.80	1050	1000	<0.010	<0.050	0.030	<0.010	<1	
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)

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

CANADIAN RIVER BASIN -- Continued

SEEPAGE WETLAND BL LAKE 13, MAXWELL NATIONAL WILDLIFE REFUGE NR MAXWELL, NM (363429104344210)

DATE	TIME	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	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)
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JUN	15...	1600	9.9	24.0	9400	310	2100	6400	29	18	141
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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)	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)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
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JUN	15...	20000	2100	2.3	37500	31000	<0.010	<0.050	0.140	<0.010	2
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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)
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JUN	15...	1400	<1.0	<3	<1	<1	<0.1	6	12	70	<10
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DRAIN NORTHEAST OF LAKE 12, MAXWELL NATIONAL WILDLIFE REFUGE NR MAXWELL, NM (363358104350810)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	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)
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JUN	16...	1300	1690	7.4	21.5	630	88	100	160	3	0.60 456
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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)	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)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
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JUN	16...	480	22	1.9	1150	1130	<0.010	<0.050	0.030	0.020	1
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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)
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JUN	16...	410	<1.0	<1	<1	<1	0.2	6	<1	1	<3
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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

CANADIAN RIVER BASIN -- Continued

HALF PLAYA, MAXWELL NATIONAL WILDLIFE REFUGE NR MAXWELL, NM (363340104341510)

DATE	TIME	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	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)	
JUN 16...	1015	10.0	20.0	11000	370	2500	4100	17	27	99	
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)	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)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
JUN 16...	18000	1200	1.3	33000	26300	<0.010	0.084	0.150	0.030	2	
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- DENIUM, 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)
JUN 16...	1400	<1.0	<3	<1	<1	<0.1	5	18	32	<10	

RIO GRANDE BASIN

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, DIS- SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)*	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)*	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	
OCT 03...	1152	--	611	10.1	12.0	17.0	630	--	19	2.0	--	--	
FEB 05...	0931	--	450	8.5	5.5	5.5	630	11.2	15	3.0	--	--	
JUL 23...	1100	2.0	444	9.3	27.0	26.0	--	14.0	40	4.0	4000	220	
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)	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)
OCT 03...	130	42	5.6	37	1	4.1	131	42	28	0.80	38	285	
FEB 05...	130	46	4.5	37	1	3.6	131	35	42	--	--	263	
JUL 23...	140	47	6.3	42	2	4.9	141	52	29	--	--	298	

* Analyses performed by City of Albuquerque Water Quality Laboratory.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08329800 ARROYO DEL EMBUDO INLET TO FLOODWAY CHANNEL AT ALBUQUERQUE, NM -- Continued

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
OCT 03...	276	--	--	<0.010	<0.010	<0.050	<0.050	0.020	0.030	0.38	0.40	--
FEB 05...	247	1	0.039	0.020	--	0.059	--	0.090	--	0.31	0.40	0.46
JUL 23...	266	16	--	<0.010	--	<0.050	--	0.040	--	1.1	1.1	--
DATE	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)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV- GRAVI- METRIC (MG/L) (00556)	ANTI- MONY, TOTAL (UG/L AS SB) (01097)	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)
OCT 03...	0.100	0.040	0.020	0.030	4.8	<0.010	<1	<1	<1	3	<10	<1
FEB 05...	0.070	0.040	--	--	3.1	<0.010	1	<1	--	3	<10	<1
JUL 23...	0.160	0.040	--	--	13	<0.010	2	<1	--	5	<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)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 03...	1	3	3	<0.10	<1	<1	<1	--	10	7	--	--
FEB 05...	<1	3	2	<0.10	<1	<2	<1	<200	<10	123	--	66
JUL 23...	<1	4	1	<0.10	<1	1	<1	<5	10	379	2.1	--
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)	PHENOLS TOTAL (UG/L) (32730)	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)	ACE- NAPHTH- YLENE TOTAL (UG/L) (34200)
OCT 03...	1152	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<1	<0.2	<0.2	<5.0
FEB 05...	0931	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1	<0.2	<0.2	<5.0
JUL 23...	1100	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	2	<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)
OCT 03...	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.01	<5.0	<5.0	<5.0	<5.0
FEB 05...	<5.0	<20	<20	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0	<5.0
JUL 23...	<5.0	<20	<20	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0	<5.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08329800 ARROYO DEL EMBUDO INLET TO FLOODWAY CHANNEL AT ALBUQUERQUE, NM -- Continued

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)
OCT 03...	<0.20	<0.2	<10.0	<5.0	<5.0	--	--	--	--	<0.2	<5.0	<5.0
FEB 05...	<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 23...	<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)
OCT 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
FEB 05...	<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 23...	<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 (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)
OCT 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
FEB 05...	<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 23...	<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 (UG/L) (34551)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (UG/L) (34556)	1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34561)	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)
OCT 03...	<0.2	<0.2	<5.0	<10.0	<0.20	<5.0	<5.0	<0.2	<5.0	<5.0	<5.0	<10.0
FEB 05...	<0.2	<0.2	<5.0	<10.0	--	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<10.0
JUL 23...	<0.2	<0.2	<5.0	<10.0	--	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	<10.0
DATE	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- BENZID- INE 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)
OCT 03...	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	<0.2
FEB 05...	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	<0.2
JUL 23...	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	<0.2

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08329800 ARROYO DEL EMBUDO INLET TO FLOODWAY CHANNEL AT ALBUQUERQUE, NM -- Continued

DATE	AROCLO- 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)	METHY- LENE BLUE ACTIVE SUB- STANCE TOTAL (MG/L) (38260)	PENTA- CHLORO- PHENOL TOTAL (UG/L) (39032)	PER- THANE TOTAL (UG/L) (39034)	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)
OCT 03...	<0.1	<5.0	<5.0	<0.2	<0.2	0.15	<30.0	<0.1	--	--	<5.0	<5.0
FEB 05...	<0.1	<5.0	<5.0	<0.2	<0.2	--	<30.0	--	<0.10	<0.10	<5.0	<5.0
JUL 23...	<0.1	<5.0	<5.0	<0.2	<0.2	--	<30.0	--	<0.10	<0.10	<5.0	<5.0

DATE	BENZI- DINE TOTAL (UG/L) (39120)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L) (39250)	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)	BETA BENZENE HEXA- CHLOR- IDE TOTAL (UG/L) (39338)	LINDANE TOTAL (UG/L) (39340)
OCT 03...	<40.0	<0.2	<0.2	<0.10	--	--	--	<0.010	<0.01	<0.01	0.010
FEB 05...	<40.0	<0.2	<0.2	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030
JUL 23...	<40.0	<0.2	<0.2	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	0.040

DATE	CHLOR- DANE, TOTAL (UG/L) (39350)	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 TOTAL (UG/L) (39390)	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)
OCT 03...	<0.1	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<1	<0.010	<0.010	<0.01
FEB 05...	<0.1	--	--	--	<0.020	--	<0.060	<2	<0.030	<0.80	--
JUL 23...	<0.1	--	--	--	<0.020	--	<0.060	<2	<0.030	<0.80	--

DATE	AROCLO- 1221 PCB TOTAL (UG/L) (39488)	AROCLO- 1232 PCB TOTAL (UG/L) (39492)	AROCLO- 1242 PCB TOTAL (UG/L) (39496)	AROCLO- 1248 PCB TOTAL (UG/L) (39500)	AROCLO- 1254 PCB TOTAL (UG/L) (39504)	AROCLO- 1260 PCB TOTAL (UG/L) (39508)	PCB, TOTAL (UG/L) (39516)	HEXA- CHLORO- BUT- BENZENE TOTAL (UG/L) (39700)	HEXA- CHLORO- ADIENE TOTAL (UG/L) (39702)	MIREX, TOTAL (UG/L) (39755)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L) (77093)
OCT 03...	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	<5.0	<0.01	--
FEB 05...	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	--	<5.0	<5.0	--	<0.2
JUL 23...	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	--	<5.0	<5.0	--	<0.2

DATE	STYRENE TOTAL (UG/L) (77128)	1,1-DI CHLORO- PRO- PENE, WAT, WH TOTAL (UG/L) (77168)	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 TOTAL (UG/L) (77222)	ISO- PROPYL- BENZENE WATER WHOLE REC TOTAL (UG/L) (77223)	BENZENE N-PROPY WATER UNFLTRD REC TOTAL (UG/L) (77224)	MESIT- YLENE WATER UNFLTRD REC TOTAL (UG/L) (77226)	O- CHLORO- TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	TOLUENE P-CHLOR WATER UNFLTRD REC TOTAL (UG/L) (77277)	BENZENE N-BUTYL WATER UNFLTRD REC TOTAL (UG/L) (77342)
OCT 03...	<0.2	--	--	--	--	--	--	--	--	--	--
FEB 05...	<0.2	<0.2	<0.2	<0.2	--	--	--	--	<0.2	<0.20	--
JUL 23...	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08329800 ARROYO DEL EMBUDO INLET TO FLOODWAY CHANNEL AT ALBUQUERQUE, NM -- Continued

DATE	BENZENE SEC 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)	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)
OCT 03...	--	--	--	--	--	--	<0.2	<0.20	--	--	<5.0
FEB 05...	--	--	--	<0.2	<0.2	--	<0.2	<0.20	<0.2	<1.0	<5.0
JUL 23...	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.20	<0.2	<1.0	<5.0

08329865 GRANT LINE ARROYO AT ALBUQUERQUE, NM

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	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)
DEC 11...	1535	63	7.6	7.0	22	7.6	0.73	2.0	0.2	3.5	31	2.1
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 CONSTITU- ENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
DEC 11...	1.5	0.20	1.9	40	0.140	0.140	0.030	0.020	0.170	0.160	0.190	0.180
DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	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)
DEC 11...	0.51	0.70	0.87	0.290	0.250	0.240	<1	<1	20	<1	<1.0	<1
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)
DEC 11...	<1	17	4	52	3	<1	<0.10	<0.1	<1	<1	20	12

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08329865 GRANT LINE ARROYO AT ALBUQUERQUE, NM -- Continued

DATE	TIME	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)	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)	CHLORO- BENZENE TOTAL (UG/L) (34301)
DEC 11...	1535	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20
DATE	TIME	CHLORO- ETHANE TOTAL (UG/L) (34311)	ETHYL- BENZENE TOTAL (UG/L) (34371)	METHYL- BROMIDE TOTAL (UG/L) (34413)	METHYL- CHLO- RIDE TOTAL (UG/L) (34418)	METHYL- ENE CHLO- RIDE TOTAL (UG/L) (34423)	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)
DEC 11...		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
DATE	TIME	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 (UG/L) (34516)	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)	1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34561)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34571)
DEC 11...		<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20
DATE	TIME	2- CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L) (34576)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)	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)	STYRENE TOTAL (UG/L) (77128)	1,2- DIBROMO ETHANE WATER WHOLE UNFLTRD REC (UG/L) (77651)	XYLENE WATER UNFLTRD REC (UG/L) (81551)
DEC 11...		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20

083299375 MARAPOSA DIVERSION OF SAN ANTONIO ARROYO AT ALBUQUERQUE, NM

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 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)*
AUG 07...	1740	--	--	46	82	8.3	25.5	--	--	--
AUG 07-07	1755	1955	32	--	--	--	--	635	420	--
AUG 11...	2205	--	--	30	101	7.8	22.0	--	--	--
AUG 11-12	2205	0035	48	--	--	--	--	--	460	77
SEP 15...	1110	--	--	21	105	7.3	22.5	--	--	--
SEP 15-15	1115	1355	16	--	--	--	--	--	50	12
SEP 19...	1030	--	--	15	117	8.3	18.0	--	--	--
SEP 19-19	1040	1320	15	--	--	--	--	--	45	29

* Analyses performed by City of Albuquerque Water Quality Laboratory

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

083299375 MARAPOSA DIVERSION OF SAN ANTONIO ARROYO AT ALBUQUERQUE, NM -- Continued

DATE	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)*	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- LITY LAB (MG/L) AS CACO3 (90410)	SULFATE DIS- SOLVED (MG/L) AS SO4 (00945)
AUG 07...	15000	70000	--	--	--	--	--	--	--	--
AUG 07-07	--	--	28	9.8	0.82	2.4	0.2	2.3	58	2.8
AUG 11...	>60000	500000	--	--	--	--	--	--	--	--
AUG 11-12	--	--	34	12	0.86	2.6	0.2	1.8	47	2.6
SEP 15...	--	160000	--	--	--	--	--	--	--	--
SEP 15-15	--	--	50	18	1.3	3.7	0.2	4.0	55	3.6
SEP 19...	39000	220000	--	--	--	--	--	--	--	--
SEP 19-19	--	--	40	14	1.2	8.6	0.6	2.6	52	5.5

DATE	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 CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	NITRO- GEN, NITRATE TOTAL (MG/L) AS N (00620)	NITRO- GEN, NITRITE TOTAL (MG/L) AS N (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L) AS N (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L) AS N (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L) AS N (00605)
AUG 07-07	0.0	0.50	59	53	124	0.400	0.020	0.420	0.140	0.56
AUG 11-12	--	<0.10	74	--	34	0.300	0.060	0.360	0.110	0.49
SEP 15-15	0.0	1.9	88	65	23	0.072	0.020	0.092	0.040	0.56
SEP 19-19	--	2.1	80	65	88	0.240	0.040	0.280	0.020	0.58

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO- GEN, TOTAL (MG/L) AS N (00600)	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)
AUG 07...	--	--	--	--	--	<0.010	5	1	--	--
AUG 07-07	0.70	1.1	0.180	0.130	110	--	--	--	2	<10
AUG 11...	--	--	--	--	--	<0.010	7	<1	--	--
AUG 11-12	0.60	0.96	0.120	0.090	74	--	--	--	2	<10
SEP 15...	--	--	--	--	--	<0.010	4	<1	--	--
SEP 15-15	0.60	0.69	0.160	0.120	15	--	--	--	4	<10
SEP 19...	--	--	--	--	--	<0.010	4	<1	--	--
SEP 19-19	0.60	0.88	0.240	0.100	7.3	--	--	--	4	<10

* Analyses performed by City of Albuquerque Water Quality Laboratory

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

083299375 MARAPOSA DIVERSION OF SAN ANTONIO ARROYO AT ALBUQUERQUE, NM -- Continued

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)
AUG 07-07	<1	3	5	8	<0.10	4	<1	<1	<5	40
AUG 11-12	<1	1	4	4	<0.10	2	<1	<1	10	20
SEP 15-15	<1	<1	6	1	<0.10	2	<2	<1	<5	20
SEP 19-19	<1	7	7	8	<0.10	5	<2	<1	<5	80

DATE	TIME	ENDING TIME	DI- BROMO- METHANE 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)
AUG 07...	1740	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	5	<0.2	<0.2
AUG 11...	2205	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	7	<0.2	<0.2
SEP 15...	1110	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	4	<0.2	<0.2
SEP 19...	1030	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	4	<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)
AUG 07...	--	--	<20	<20	--	--	--	--	--	--	--	--
AUG 07-07	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
AUG 11...	--	--	<20	<20	--	--	--	--	--	--	--	--
AUG 11-12	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
SEP 15...	--	--	<20	<20	--	--	--	--	--	--	--	--
SEP 15-15	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
SEP 19...	--	--	<20	<20	--	--	--	--	--	--	--	--
SEP 19-19	<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)	FLUOR- ANTHENE TOTAL (UG/L) (34376)
AUG 07...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
AUG 07-07	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
AUG 11...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
AUG 11-12	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
SEP 15...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
SEP 15-15	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
SEP 19...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
SEP 19-19	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

083299375 MARAPOSA DIVERSION OF SAN ANTONIO ARROYO AT ALBUQUERQUE, NM -- Continued

DATE	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)	N-NITRO -SODI- METHY- LAMINE TOTAL (UG/L) (34438)	NITRO- BENZENE TOTAL (UG/L) (34447)
AUG 07...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
AUG 07-07	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
AUG 11...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
AUG 11-12	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
SEP 15...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
SEP 15-15	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
SEP 19...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
SEP 19-19	<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)	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 (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)
AUG 07...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
AUG 07-07	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
AUG 11...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
AUG 11-12	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
SEP 15...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
SEP 15-15	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
SEP 19...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
SEP 19-19	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
DATE	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- 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)
AUG 07...	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
AUG 07-07	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0
AUG 11...	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
AUG 11-12	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0
SEP 15...	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
SEP 15-15	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0
SEP 19...	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
SEP 19-19	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

083299375 MARAPOSA DIVERSION OF SAN ANTONIO ARROYO AT ALBUQUERQUE, NM -- Continued

DATE	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)	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)
AUG 07...	--	--	--	--	--	--	--	--	--	--	--	<0.2
AUG 07-07	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
AUG 11...	--	--	--	--	--	--	--	--	--	--	--	<0.2
AUG 11-12	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
SEP 15...	--	--	--	--	--	--	--	--	--	--	--	<0.2
SEP 15-15	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
SEP 19...	--	--	--	--	--	--	--	--	--	--	--	<0.2
SEP 19-19	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--

DATE	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)	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)
AUG 07...	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
AUG 07-07	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	<5.0	<5.0	<40.0	--
AUG 11...	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
AUG 11-12	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	<5.0	<5.0	<40.0	--
SEP 15...	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
SEP 15-15	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	<5.0	<5.0	<40.0	--
SEP 19...	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
SEP 19-19	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	<5.0	<5.0	<40.0	--

DATE	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)	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)
AUG 07...	<0.2	--	--	--	--	--	--	--	--	--	--	--
AUG 07-07	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2
AUG 11...	<0.2	--	--	--	--	--	--	--	--	--	--	--
AUG 11-12	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2
SEP 15...	<0.2	--	--	--	--	--	--	--	--	--	--	--
SEP 15-15	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2
SEP 19...	<0.2	--	--	--	--	--	--	--	--	--	--	--
SEP 19-19	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2

RIO GRANDE BASIN -- Continued

DATE	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)	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- BUT- BENZENE TOTAL (UG/L) (39700)	HEXA- CHLORO- BUT- ADIENE TOTAL (UG/L) (39702)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L) (77093)
7...	--	--	--	--	--	--	--	--	--	<5.0	<0.2
7-07	<0.030	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	--	--
1...	--	--	--	--	--	--	--	--	--	<5.0	<0.2
1-12	<0.030	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	--	--
5...	--	--	--	--	--	--	--	--	--	<5.0	<0.2
5-15	<0.030	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	--	--
9...	--	--	--	--	--	--	--	--	--	<5.0	<0.2
9-19	<0.030	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	--	--

DATE	STYRENE TOTAL (UG/L) (77128)	1,1-DI CHLORO- PRO- PENE, WAT, WH TOTAL (UG/L) (77168)	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)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)
		7... 1...	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.20 <0.20	<0.20 <0.20	<0.20 <0.20	<0.20 <0.20	<0.2 <0.2
5... 9...	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.2 <0.2	<0.20 <0.20	<0.20 <0.20	<0.20 <0.20	<0.20 <0.20	<0.2 <0.2	<0.20 <0.20	<0.20 <0.20

[illegible]

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08330050 CITY OF ALBUQUERQUE LIFT STATION 41 AT ALBUQUERQUE, NM

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 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, 0.45 UM-MF (COLS./ 100 ML) (31616)*
JUL 23...	1812	--	--	24	--	7.5	25.5	--	--	>60000
JUL 24-24	1956	2139	24	--	--	--	--	400	60	--
JUL 31-31	1956	2205	15	--	--	--	--	190	34	--
JUL 31...	1957	--	--	13	136	7.6	25.0	--	--	>60000
AUG 06...	1702	--	--	7.4	--	7.5	25.5	--	--	>60000
AUG 06-06	1702	1746	9.2	--	--	--	--	200	--	--
AUG 11...	2135	--	--	7.4	131	7.2	--	--	--	>60000
AUG 11-12	2135	0125	14	--	--	--	--	160	47	--
SEP 15-15	0138	0251	11	--	192	7.3	--	--	--	--

DATE	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)
JUL 23...	16000	--	--	--	--	--	--	--	--	--
JUL 24-24	--	27	9.4	0.77	4.1	0.3	4.6	43	6.4	--
JUL 31-31	--	34	12	1.0	6.0	0.4	4.2	55	9.6	--
JUL 31...	1600000	--	--	--	--	--	--	--	--	--
AUG 06...	110000	--	--	--	--	--	--	--	--	--
AUG 06-06	--	37	13	1.0	5.1	0.4	3.7	51	8.0	<0.02
AUG 11...	900000	--	--	--	--	--	--	--	--	--
AUG 11-12	--	20	7.3	0.55	2.7	0.3	2.1	30	3.6	--
SEP 15-15	--	40	14	1.2	6.7	0.5	4.8	36	12	--

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JUL 24-24	2.3	75	332	0.520	0.060	0.580	0.420	0.68	1.1
JUL 31-31	3.3	92	262	0.950	0.050	1.00	0.760	2.0	2.8
AUG 06-06	2.1	97	284	0.510	0.040	0.550	0.300	1.1	1.4
AUG 11-12	1.6	61	66	0.410	0.050	0.460	0.300	0.70	1.0
SEP 15-15	4.1	107	138	0.670	0.080	0.750	1.20	4.6	5.8

* Analyses performed by City of Albuquerque Water Quality Laboratory

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08330050 CITY OF ALBUQUERQUE LIFT STATION 41 AT ALBUQUERQUE, NM -- Continued

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	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)
JUL 23...	--	--	--	--	<0.010	2	11	--	--	--
JUL 24-24	1.7	0.210	0.170	40	--	--	--	3	<10	2
JUL 31-31	3.8	0.470	0.320	37	--	--	--	2	<10	1
JUL 31...	--	--	--	--	<0.010	7	11	--	--	--
AUG 06...	--	--	--	--	<0.010	7	5	--	--	--
AUG 06-06	2.0	0.280	0.190	110	--	--	--	4	<10	1
AUG 11...	--	--	--	--	<0.010	9	2	--	--	--
AUG 11-12	1.5	0.190	0.140	31	--	--	--	2	<10	<1
SEP 15-15	6.6	0.650	0.420	54	--	--	--	4	<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)
JUL 24-24	15	26	130	0.20	6	<1	2	<5	270
JUL 31-31	10	19	100	0.10	7	<1	1	<5	290
AUG 06-06	10	23	95	<0.10	7	<1	3	<5	240
AUG 11-12	3	9	44	<0.10	2	<1	<1	<10	120
SEP 15-15	5	20	54	<0.10	4	<2	1	<5	240

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)
JUL 23...	1812	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	2	3.1	<0.2
JUL 31...	1957	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	7	0.6	<0.2
AUG 06...	1702	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.9	7	0.9	<0.2
AUG 11...	2135	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	9	<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- 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)
JUL 23...	--	--	<20	<20	--	--	--	--	--	--	--	--
JUL 24-24	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
JUL 31-31	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
JUL 31...	--	--	<20	<20	--	--	--	--	--	--	--	--
AUG 06...	--	--	<20	<20	--	--	--	--	--	--	--	--
AUG 06-06	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
AUG 11...	--	--	<20	<20	--	--	--	--	--	--	--	--
AUG 11-12	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
SEP 15-15	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08330050 CITY OF ALBUQUERQUE LIFT STATION 41 AT ALBUQUERQUE, NM -- Continued

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 TOTAL (UG/L) (34361)	ENDRIN ALDE- HYDE TOTAL (UG/L) (34366)	ETHYL- BENZENE TOTAL (UG/L) (34371)	FLUOR- ANTHRENE TOTAL (UG/L) (34376)
JUL 23...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
JUL 24-24	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
JUL 31-31	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	5.0
JUL 31...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
AUG 06...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
AUG 06-06	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
AUG 11...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
AUG 11-12	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
SEP 15-15	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0

DATE	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)	N-NITRO -SODI- METHY- LAMINE TOTAL (UG/L) (34438)	NITRO- BENZENE TOTAL (UG/L) (34447)
JUL 23...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
JUL 24-24	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
JUL 31-31	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
JUL 31...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
AUG 06...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
AUG 06-06	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
AUG 11...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
AUG 11-12	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
SEP 15-15	<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)	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 FERYL ENE1,12 -BENZOP ERYLENE TOTAL (UG/L) (34521)	BENZO A ANTHRAC ENE1,2- BENZANT HRACENE TOTAL (UG/L) (34526)
JUL 23...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
JUL 24-24	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
JUL 31-31	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
JUL 31...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
AUG 06...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
AUG 06-06	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
AUG 11...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
AUG 11-12	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
SEP 15-15	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08330050 CITY OF ALBUQUERQUE LIFT STATION 41 AT ALBUQUERQUE, NM -- Continued

DATE	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)	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)
JUL 23...	<0.20	<0.2	<0.2	<0.20	--	<0.20	<0.20	<1.0	--	--	--	--
JUL 24-24	<5.0	--	--	<5.0	<10.0	<5.0	<5.0	--	<5.0	<5.0	<5.0	<10.0
JUL 31-31	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0
JUL 31...	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
AUG 06...	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
AUG 06-06	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0
AUG 11...	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
AUG 11-12	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0
SEP 15-15	<5.0	--	--	<5.0	<10.0	<5.0	<5.0	--	<5.0	<5.0	<5.0	<10.0
DATE	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)	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)
JUL 23...	--	--	--	--	--	--	--	--	--	--	--	<0.2
JUL 24-24	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
JUL 31-31	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
JUL 31...	--	--	--	--	--	--	--	--	--	--	--	<0.2
AUG 06...	--	--	--	--	--	--	--	--	--	--	--	<0.2
AUG 06-06	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
AUG 11...	--	--	--	--	--	--	--	--	--	--	--	<0.2
AUG 11-12	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
SEP 15-15	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
DATE	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)	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)
JUL 23...	--	--	1.1	<0.2	<0.2	--	--	--	--	--	--	<0.2
JUL 24-24	<0.1	<5.0	<5.0	--	--	<30.0	<0.10	<0.10	16.0	<5.0	<40.0	--
JUL 31-31	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	17.0	<5.0	<40.0	--
JUL 31...	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
AUG 06...	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
AUG 06-06	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	10.0	<5.0	<40.0	--
AUG 11...	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
AUG 11-12	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	6.0	<5.0	<40.0	--
SEP 15-15	<0.1	<5.0	<5.0	--	--	<30.0	<0.10	<0.10	7.0	<5.0	<40.0	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08330050 CITY OF ALBUQUERQUE LIFT STATION 41 AT ALBUQUERQUE, NM -- Continued

DATE	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)	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)
JUL 23...	<0.2	--	--	--	--	--	--	--	--	--	--	--
JUL 24-24	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2
JUL 31-31	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	0.2	<0.020	<0.060	<2
JUL 31...	<0.2	--	--	--	--	--	--	--	--	--	--	--
AUG 06...	<0.2	--	--	--	--	--	--	--	--	--	--	--
AUG 06-06	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	0.1	<0.020	<0.060	<2
AUG 11...	<0.2	--	--	--	--	--	--	--	--	--	--	--
AUG 11-12	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2
SEP 15-15	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2

DATE	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)	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)
JUL 23...	--	--	--	--	--	--	--	--	--	<0.2	<0.2
JUL 24-24	<0.030	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	<5.0	--
JUL 31-31	<0.030	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	--	--
JUL 31...	--	--	--	--	--	--	--	--	--	<5.0	<0.2
AUG 06...	--	--	--	--	--	--	--	--	--	<5.0	<0.2
AUG 06-06	<0.030	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	--	--
AUG 11...	--	--	--	--	--	--	--	--	--	<5.0	<0.2
AUG 11-12	<0.030	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	--	--
SEP 15-15	<0.030	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	<5.0	--

DATE	STYRENE TOTAL (UG/L) (77128)	1,1-DI CHLORO- PRO- PENE, WAT, WH TOTAL (UG/L) (77168)	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)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)
JUL 23...	<0.2	<0.2	<0.2	<0.2	1.0	<0.20	<0.20	0.30	<0.2	<0.20	0.30
JUL 31...	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
AUG 06...	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
AUG 11...	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08330050 CITY OF ALBUQUERQUE LIFT STATION 41 AT ALBUQUERQUE, NM -- Continued

DATE	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- TRI- 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)	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)
JUL 23...	<0.20	<0.20	0.70	<0.2	<0.2	<0.20	<0.2	0.40	<0.2	<1.0	--
JUL 24-24	--	--	--	--	--	--	--	--	--	--	<5.0
JUL 31-31	--	--	--	--	--	--	--	--	--	--	<5.0
AUG 31...	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.20	<0.2	<1.0	--
AUG 06...	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.20	<0.2	<1.0	--
AUG 06-06	--	--	--	--	--	--	--	--	--	--	<5.0
AUG 11...	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.20	<0.2	<1.0	--
AUG 11-12	--	--	--	--	--	--	--	--	--	--	<5.0
SEP 15-15	--	--	--	--	--	--	--	--	--	--	<5.0

08330150 RIO GRANDE AT RIO BRAVO BRIDGE AT ALBUQUERQUE, NM

DATE	TIME	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)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)
APR 16...	1100	405	7.3	13.5	594	8.3	K24	0.037
APR 16...	1330	--	--	--	--	--	--	0.028

DATE	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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)
APR 16...	0.050	<0.010	0.087	0.089	0.030	<0.010	0.090	0.030
APR 16...	0.060	<0.010	0.088	0.089	0.060	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 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

RIO GRANDE 1.5 MI BL ALB. WASTE WATER TREATMENT PLANT, NM (345956106411210)
(CITY R-14)

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 DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
OCT										
17...	1125	462	495	8.0	21.0	15.0	635	8.0	--	--
NOV										
21...	0921	1720	529	8.3	11.0	5.0	638	10.3	--	--
21...	0922*	--	529	8.3	--	--	--	2.5	--	<60000
JAN										
23...	1115	787	478	8.1	5.0	2.0	644	13.5	--	--
FEB										
20...	0910	E200	529	8.2	5.0	5.5	637	10.5	--	--
MAR										
25...	1002	E1000	434	8.1	12.0	9.5	642	9.7	--	--
APR										
29...	0910	E3000	358	8.0	18.0	14.0	640	9.0	--	--
MAY										
28...	0845	3000	338	8.0	15.5	15.0	635	8.6	--	--
JUN										
24...	1030	E1800	404	7.9	24.0	20.5	640	7.8	--	--
JUL										
30...	0915	E1000	436	8.0	--	22.5	638	6.3	--	--
AUG										
27...	0935	E800	433	8.3	17.0	20.0	650	7.3	--	--

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 WAT WH TOT FET FIELD (MG/L AS CACO3) (00410)	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)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
OCT												
17...	--	--	--	--	--	--	--	--	0.29	--	--	--
NOV												
21...	--	--	--	--	--	--	--	--	0.04	--	--	--
21...	160	50	8.2	40	1	3.4	142	90	0.18	23	0.73	27
JAN												
23...	--	--	--	--	--	--	--	--	0.30	--	--	--
FEB												
20...	--	--	--	--	--	--	--	--	0.13	--	--	--
MAR												
25...	--	--	--	--	--	--	--	--	0.05	--	--	--
APR												
29...	--	--	--	--	--	--	--	--	0.05	--	--	--
MAY												
28...	--	--	--	--	--	--	--	--	0.06	--	--	--
JUN												
24...	--	--	--	--	--	--	--	--	0.20	--	--	--
JUL												
30...	--	--	--	--	--	--	--	--	0.40	--	--	--
AUG												
27...	--	--	--	--	--	--	--	--	0.15	--	--	--

* Analyses performed by City of Albuquerque Water Quality Laboratory

RIO GRANDE BASIN -- Continued

RIO GRANDE 1.5 MI BL ALB. WASTE WATER TREATMENT PLANT, NM (345956106411210) -- Continued
(CITY R-14)

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

RIO GRANDE 1.5 MI BL ALB. WASTE WATER TREATMENT PLANT, NM (345956106411210) -- Continued
(CITY R-14)

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	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) (01087)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 17...	--	--	--	--	--	--	--	--	--	464	579	--
NOV 21...	--	--	--	--	--	--	--	--	--	857	3980	--
NOV 21...	<2	<0.5	<5	<2	<2.0	390	390	<10	8	--	--	--
JAN 23...	--	--	--	--	--	--	--	--	--	194	412	33
FEB 20...	--	--	--	--	--	--	--	--	--	65	--	39
MAR 25...	--	--	--	--	--	--	--	--	--	1740	--	--
APR 29...	--	--	--	--	--	--	--	--	--	773	--	--
MAY 28...	--	--	--	--	--	--	--	--	--	4170	33800	--
JUN 24...	--	--	--	--	--	--	--	--	--	445	--	--
JUL 30...	--	--	--	--	--	--	--	--	--	311	--	--
AUG 27...	--	--	--	--	--	--	--	--	--	304	--	--

RIO GRANDE NR LEFT EDGE OF WATER 1.5 MI BL ALB. WASTE WATER TREATMENT PLANT, NM (345956106411211)
(CITY R-14A)

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	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)	CHLO- RINE, TOTAL RESI- DUAL (MG/L) (50060)
OCT 17...	1145	1.30	565	7.7	21.0	15.0	635	7.4	0.40
NOV 21...	1000	2.00	522	8.1	11.0	6.0	638	10.0	0.17
JAN 23...	1145	2.72	489	7.9	5.0	1.5	644	13.8	1.0
FEB 20...	0926	1.60	562	7.9	5.0	6.0	637	10.2	0.20
MAR 25...	1017	2.40	449	7.9	12.0	10.0	642	9.5	0.08
APR 29...	0934	4.40	356	8.0	18.0	14.0	640	9.2	<0.02
MAY 28...	0938	1.90	327	7.9	15.5	15.0	635	8.7	0.07
JUN 24...	1130	0.90	445	7.7	24.0	21.0	640	6.3	0.30
JUL 30...	0945	1.38	469	7.7	--	22.5	638	6.3	0.40
AUG 27...	1005	1.10	454	8.0	17.0	20.5	650	7.0	0.30

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

RIO GRANDE NR CENTER OF FLOW 1.5 MI BL ALB. WASTE WATER TREATMENT PLANT, NM (345956106411212)
(CITY R-14B)

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	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)	CHLO- RINE, TOTAL RESI- DUAL (MG/L) (50060)
OCT									
17...	1153	1.00	468	8.0	21.0	15.0	635	8.1	0.27
NOV									
21...	1008	2.30	514	8.2	11.0	5.5	638	10.5	0.12
JAN									
23...	1153	1.00	452	8.1	5.0	2.0	644	13.4	0.30
FEB									
20...	0944	1.20	485	8.0	5.0	5.0	637	10.4	0.17
MAR									
25...	1009	2.00	428	8.1	12.0	9.0	642	9.7	0.10
APR									
29...	0943	3.60	350	8.0	18.0	14.0	640	9.2	0.05
MAY									
28...	0932	0.45	330	8.0	15.5	14.0	635	8.4	0.05
JUN									
24...	1115	5.30	384	7.9	24.0	20.5	640	8.4	0.20
JUL									
30...	1000	2.10	471	7.7	--	22.5	638	6.1	0.30
AUG									
27...	1010	1.20	417	8.3	17.0	20.0	650	7.2	0.10

RIO GRANDE NR RIGHT EDGE OF WATER 1.5 MI BL ALB. WASTE WATER TREATMENT PLANT, NM (345956106411213)
(CITY R-14C)

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	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)	CHLO- RINE, TOTAL RESI- DUAL (MG/L) (50060)
OCT									
17...	1203	0.85	421	8.2	21.0	15.0	635	8.4	0.24
NOV									
21...	1017	1.50	519	8.3	11.0	3.5	638	10.5	0.12
JAN									
23...	1203	0.74	444	8.1	5.0	2.0	644	13.2	0.25
FEB									
20...	0957	0.90	518	8.2	5.0	4.0	637	10.8	0.08
MAR									
25...	1000	1.50	416	8.1	12.0	10.0	642	9.8	0.03
APR									
29...	0951	4.00	350	8.0	18.0	14.0	640	8.6	0.06
MAY									
28...	0922	2.70	333	8.0	15.5	15.0	635	8.6	0.07
JUN									
24...	1100	1.60	416	8.1	24.0	20.5	640	8.8	0.10
JUL									
30...	1010	2.30	407	7.9	--	22.5	638	6.6	0.25
AUG									
27...	1015	1.56	390	8.4	17.0	20.0	650	7.6	0.05

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

RIO GRANDE 2.5 MI BL ALB. WASTE WATER TREATMENT PLANT, NM (345908106411010)
(CITY R-15)

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)	CHLO- RINE, TOTAL RESI- DUAL (MG/L) (50060)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT 17...	0935	398	446	8.2	21.0	14.5	632	7.8	0.30	0.170
NOV 21...	1122	1710	535	8.2	13.0	6.5	638	10.1	0.09	0.090
JAN 23...	1316	841	493	8.0	--	4.5	644	12.2	0.14	0.190
FEB 20...	1035	E200	532	8.1	6.5	6.5	637	10.3	0.09	0.230
MAR 25...	1105	E1000	436	8.1	--	10.5	642	8.6	0.03	--
APR 29...	1042	E3000	355	8.0	22.0	14.5	640	8.5	0.07	0.070
MAY 28...	1025	E3000	336	8.0	21.0	16.0	635	8.3	0.05	0.080
JUN 24...	1200	E1800	397	8.1	27.0	22.5	640	7.7	0.08	0.050
JUL 30...	1115	E1000	438	7.9	--	24.5	638	6.3	0.30	0.090
AUG 27...	1045	E800	416	8.2	25.0	21.0	650	7.0	0.08	--

DATE	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CYANIDE TOTAL (MG/L AS CN) (00720)	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 17...	0.220	0.390	1.90	0.60	2.5	2.9	0.780	0.710	<0.010	122	131	--
NOV 21...	0.070	0.160	0.520	0.78	1.3	1.5	0.520	0.200	<0.010	1230	5680	--
JAN 23...	0.070	0.260	2.30	0.60	2.9	3.2	0.690	0.630	<0.010	115	261	66
FEB 20...	0.050	0.280	2.40	0.70	3.1	3.4	0.720	0.660	<0.010	52	--	47
MAR 25...	<0.010	0.060	0.250	0.15	0.40	0.46	0.110	0.100	<0.010	443	--	--
APR 29...	0.050	0.120	0.350	0.45	0.80	0.92	0.330	0.180	<0.010	3860	--	--
MAY 28...	0.050	0.130	0.170	0.33	0.50	0.63	0.190	0.110	<0.010	8500	--	--
JUN 24...	0.080	0.130	0.580	0.52	1.1	1.2	0.220	0.200	<0.010	594	--	--
JUL 30...	0.120	0.210	1.40	0.60	2.0	2.2	0.540	0.450	<0.010	324	--	--
AUG 27...	--	--	--	--	--	--	--	--	<0.010	283	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

RIO GRANDE NR LEFT EDGE OF WATER 2.5 MI BL ALB. WASTE WATER TREATMENT PLANT, NM (345908106411011)
(CITY R-15A)

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	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)	CHLO- RINE, TOTAL RESI- DUAL (MG/L) (50060)
OCT									
17...	0955	0.80	429	8.1	21.0	14.5	632	7.8	0.25
NOV									
21...	1140	2.30	542	8.0	13.0	7.0	638	9.9	0.10
JAN									
23...	1345	5.80	503	8.0	--	5.5	644	11.0	0.25
FEB									
20...	1050	1.25	499	8.2	6.5	6.5	637	10.5	0.08
MAR									
25...	1110	2.80	463	7.9	--	10.5	642	9.5	0.04
APR									
29...	1033	6.20	367	7.9	22.0	14.5	640	8.6	0.03
MAY									
28...	1118	3.50	338	8.0	21.0	16.0	635	8.4	0.10
JUN									
24...	1340	6.90	401	8.0	27.0	22.5	640	7.8	0.10
JUL									
30...	1140	3.80	477	7.7	--	24.5	638	6.1	0.26
AUG									
27...	1033	1.32	441	8.0	25.0	21.0	650	6.7	0.10

RIO GRANDE NR CENTER OF FLOW 2.5 MI BL ALB. WASTE WATER TREATMENT PLANT, NM (345908106411012)
(CITY R-15B)

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	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)	CHLO- RINE, TOTAL RESI- DUAL (MG/L) (50060)
OCT									
17...	1007	0.90	423	8.1	21.0	14.5	632	7.9	0.20
NOV									
21...	1143	3.90	535	8.1	13.0	6.5	638	10.1	0.13
JAN									
23...	1400	1.60	482	8.1	--	4.5	644	13.1	0.13
FEB									
20...	1100	1.00	536	8.0	6.5	6.5	637	10.2	0.10
MAR									
25...	1117	2.00	443	8.0	--	10.5	642	7.3	< 0.02
APR									
29...	1043	3.80	359	8.0	22.0	14.0	640	8.7	0.08
MAY									
28...	1110	1.50	334	8.0	21.0	16.0	635	8.1	0.10
JUN									
24...	1330	1.70	393	8.1	27.0	22.5	640	7.7	0.10
JUL									
30...	1150	2.64	474	7.7	--	24.5	638	6.2	0.25
AUG									
27...	1103	1.00	413	8.2	25.0	21.0	650	7.0	0.07

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

RIO GRANDE NR RIGHT EDGE OF WATER 2.5 MI BL ALB. WASTE WATER TREATMENT PLANT, NM (345908106411013)
(CITY R-15C)

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	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)	CHLO- RINE, TOTAL RESI- DUAL (MG/L) (50060)
OCT									
17...	1012	1.00	414	8.2	21.0	14.5	632	7.7	0.20
NOV									
21...	1149	1.20	524	8.2	13.0	6.0	638	10.2	0.04
JAN									
23...	1408	1.70	463	8.1	--	4.0	644	12.5	0.12
FEB									
20...	1114	1.40	548	8.0	6.5	6.5	637	10.3	0.10
MAR									
25...	1122	1.50	420	8.1	--	11.0	642	9.0	<0.02
APR									
29...	1056	5.20	353	8.0	22.0	14.5	640	8.2	0.04
MAY									
28...	1048	1.30	334	8.0	21.0	16.0	635	8.4	0.05
JUN									
24...	1320	1.80	390	8.1	27.0	22.5	640	7.7	0.10
JUL									
30...	1200	3.34	398	8.0	--	25.0	638	6.6	0.22
AUG									
27...	1113	1.18	401	8.3	25.0	21.0	650	7.3	0.07

RIO GRANDE 4.9 MI BL ALB. WASTE WATER TREATMENT PLANT, NM (345705106405210)
(CITY R-02)

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)	HARD- NESS TOTAL (MG/L AS CaCO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS Ca) (00915)
OCT										
17...	1030	438	445	7.9	20.5	16.0	642	6.8	--	--
NOV										
21...	1303	1570	535	8.1	15.0	8.0	638	9.6	160	52
JAN										
23...	1543	841	501	7.9	--	5.0	644	11.4	--	--
FEB										
20...	1250	E200	520	8.0	8.5	9.0	637	9.5	150	48
MAR										
25...	1247	E1000	436	8.2	--	12.0	642	8.8	--	--
APR										
29...	1223	3000	361	8.2	--	15.5	639	7.6	--	--
MAY										
28...	1233	3000	339	8.0	--	17.0	634	8.4	120	37
JUN										
24...	1600	E1800	409	8.0	--	24.0	640	6.9	--	--
JUL										
30...	1410	E1000	429	8.0	--	28.5	638	5.4	--	--
AUG										
27...	1300	E800	410	8.1	--	24.0	650	6.0	150	47

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

RIO GRANDE 4.9 MI BL ALB. WASTE WATER TREATMENT PLANT, NM (345705106405210) -- Continued
(CITY R-02)

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)	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)
OCT 17...	--	--	--	--	--	--	0.24	--	--	--	--
NOV 21...	8.1	41	1	4.1	137	93	0.05	26	0.50	21	343
JAN 23...	--	--	--	--	--	--	0.07	--	--	--	--
FEB 20...	7.8	40	1	5.1	131	73	0.04	23	0.60	25	311
MAR 25...	--	--	--	--	--	--	<0.02	--	--	--	--
APR 29...	--	--	--	--	--	--	0.11	--	--	--	--
MAY 28...	6.2	21	0.8	2.5	96	54	0.07	12	0.30	17	212
JUN 24...	--	--	--	--	--	--	0.07	--	--	--	--
JUL 30...	--	--	--	--	--	--	0.10	--	--	--	--
AUG 27...	7.7	27	1	3.7	122	68	0.07	13	0.50	19	234
DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 17...	--	0.280	--	0.270	--	0.550	--	1.90	--	0.80	2.7
NOV 21...	331	0.230	0.220	0.100	0.090	0.330	0.310	0.640	0.630	0.46	1.1
JAN 23...	--	0.310	--	0.080	--	0.390	--	2.00	--	0.70	2.7
FEB 20...	308	0.390	0.420	0.050	0.050	0.440	0.470	2.40	2.30	0.70	3.1
MAR 25...	--	0.380	--	0.020	--	0.400	--	0.460	--	0.34	0.80
APR 29...	--	0.120	--	0.050	--	0.170	--	0.300	--	0.50	0.80
MAY 28...	209	0.160	0.200	0.050	0.020	0.210	0.220	0.270	0.240	0.43	0.70
JUN 24...	--	0.240	--	0.140	--	0.380	--	0.730	--	0.57	1.3
JUL 30...	--	0.230	--	0.190	--	0.420	--	0.960	--	0.54	1.5
AUG 27...	262	0.180	0.180	0.140	0.130	0.320	0.310	0.590	0.610	0.31	0.90
DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CYANIDE TOTAL (MG/L AS CN) (00720)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, TOTAL RECOV- ERABLE (UG/L AS B) (01022)	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 17...	3.3	0.860	0.800	--	<0.010	--	--	--	--	--	--
NOV 21...	1.4	0.910	0.250	0.230	<0.010	4	4	210	140	<1	<1.0
JAN 23...	3.1	0.700	0.620	--	<0.010	--	--	--	--	--	--
FEB 20...	3.5	0.770	0.700	0.670	<0.010	--	--	--	--	--	--
MAR 25...	1.2	0.230	0.210	--	<0.010	--	--	--	--	--	--
APR 29...	0.97	0.340	0.180	--	<0.010	--	--	--	--	--	--
MAY 28...	0.91	0.240	0.180	0.140	<0.010	4	2	60	60	<1	<1.0
JUN 24...	1.7	0.280	0.260	--	<0.010	--	--	--	--	--	--
JUL 30...	1.9	0.450	0.370	--	<0.010	--	--	--	--	--	--
AUG 27...	1.2	0.310	0.270	0.270	<0.010	3	3	70	50	<1	<1.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

RIO GRANDE 4.9 MI BL ALB. WASTE WATER TREATMENT PLANT, NM (345705106405210) -- Continued
(CITY R-02)

DATE	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	CHRO- MIUM, HEXA- VALENT, DIS. (UG/L AS CR) (01032)	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)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)
OCT 17...	--	--	--	--	--	--	--	--	--	--	--
NOV 21...	7	<1	<1	7	2	7700	9	<1	230	<0.10	<0.1
JAN 23...	--	--	--	--	--	--	--	--	--	--	--
FEB 20...	--	--	--	--	--	--	--	--	--	--	--
MAR 25...	--	--	--	--	--	--	--	--	--	--	--
APR 29...	--	--	--	--	--	--	--	--	--	--	--
MAY 28...	5	<1	<1	9	2	6400	10	<1	230	<0.10	<0.1
JUN 24...	--	--	--	--	--	--	--	--	--	--	--
JUL 30...	--	--	--	--	--	--	--	--	--	--	--
AUG 27...	3	<1	<1	9	3	3400	5	<1	160	<0.10	<0.1
DATE	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)	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)
OCT 17...	--	--	--	--	--	--	--	--	71	84	--
NOV 21...	8	<1	<1	<1	<1	<1.0	40	5	888	3760	--
JAN 23...	--	--	--	--	--	--	--	--	198	450	54
FEB 20...	--	--	--	--	--	--	--	--	133	--	73
MAR 25...	--	--	--	--	--	--	--	--	1610	--	--
APR 29...	--	--	--	--	--	--	--	--	883	7150	--
MAY 28...	6	<1	<1	<1	<1	<1.0	30	<3	5190	42100	--
JUN 24...	--	--	--	--	--	--	--	--	2650	--	--
JUL 30...	--	--	--	--	--	--	--	--	313	--	--
AUG 27...	5	<1	<1	<1	<1	<1.0	30	<3	383	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

RIO GRANDE NR LEFT EDGE OF WATER 4.9 MI BL ALB. WASTE WATER TREATMENT PLANT, NM (345705106405211)
(CITY R-02A)

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	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)	CHLO- RINE, TOTAL RESI- DUAL (MG/L) (50060)
OCT									
17...	1100	1.80	456	7.8	20.5	16.0	642	6.7	0.10
NOV									
21...	1353	1.60	550	7.9	15.0	9.0	638	9.3	0.07
JAN									
23...	1622	2.36	510	7.8	--	6.0	644	11.2	0.10
FEB									
20...	1323	2.70	502	7.9	8.5	9.5	637	9.3	0.06
MAR									
25...	1236	2.00	440	7.9	--	12.0	642	8.5	<0.02
APR									
29...	1256	2.90	373	7.9	--	16.0	639	7.7	0.09
MAY									
28...	1316	2.90	343	7.9	--	17.0	634	8.3	0.05
JUN									
24...	1535	1.70	423	7.8	--	24.0	640	6.9	0.05
JUL									
30...	1420	1.70	454	7.7	--	28.5	638	5.2	0.15
AUG									
27...	1325	1.00	407	8.0	--	24.0	650	5.9	0.10

RIO GRANDE NR CENTER OF FLOW 4.9 MI BL ALB. WASTE WATER TREATMENT PLANT, NM (345705106405212)
(CITY R-02B)

DATE	TIME	SAM- PLING DEPTH (FEET) (00003)	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)	CHLO- RINE, TOTAL RESI- DUAL (MG/L) (50060)
OCT									
17...	1104	1.10	440	7.8	20.5	16.0	642	6.8	0.30
NOV									
21...	1345	2.40	540	8.0	15.0	8.0	638	9.7	0.05
JAN									
23...	1630	1.00	481	8.0	--	5.0	644	11.4	0.07
FEB									
20...	1315	1.00	519	8.0	8.5	9.0	637	9.6	0.06
MAR									
25...	1244	1.00	431	7.9	--	12.0	642	8.7	<0.02
APR									
29...	1250	2.80	359	8.0	--	15.5	639	7.4	0.10
MAY									
28...	1305	0.90	334	7.9	--	17.0	634	8.4	0.06
JUN									
24...	1547	4.20	415	7.9	--	25.0	640	6.9	0.05
JUL									
30...	1430	2.90	420	7.8	--	28.5	638	5.3	0.13
AUG									
27...	1332	1.40	416	8.1	--	24.0	650	6.0	0.05

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

RIO GRANDE NR RIGHT EDGE OF WATER 4.9 MI BL ALB. WASTE WATER TREATMENT PLANT, NM (345705106405213)
(CITY R-02C)

DATE	TIME	SAM- PLING DEPTH (FEET) (000003)	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)	CHLO- RINE, TOTAL RESI- DUAL (MG/L) (50060)
OCT									
17...	1106	1.20	433	7.8	20.5	15.5	642	6.9	0.31
NOV									
21...	1335	0.90	528	8.1	15.0	7.5	638	9.9	0.03
JAN									
23...	1637	0.60	479	7.9	--	4.5	644	11.6	0.05
FEB									
20...	1302	0.54	528	8.0	8.5	8.5	637	9.7	0.06
MAR									
25...	1252	2.50	422	8.1	--	12.0	642	9.1	<0.02
APR									
29...	1242	3.10	354	8.0	--	15.5	639	7.8	0.10
MAY									
28...	1303	1.10	333	7.9	--	17.0	634	8.4	0.07
JUN									
24...	1601	2.10	400	8.0	--	24.0	640	6.8	0.05
JUL									
30...	1440	3.86	412	7.9	--	28.0	638	5.6	0.17
AUG									
27...	1337	1.00	404	8.2	--	23.5	650	6.0	0.05

08330200 SAN JOSE DRAIN AT WOODWARD ROAD AT ALBUQUERQUE, NM

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 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, 0.45 UM-MF (COLS./ 100 ML) (31616)*
JUL										
23...	1937	--	--	--	250	7.0	--	--	--	--
24...	2045	--	--	35	--	7.7	--	--	--	>60000
JUL										
24-24	2045	2345	19	--	--	--	--	320	32	--
AUG										
06...	1615	--	--	7.5	108	8.2	24.5	--	--	>60000
AUG										
06-06	1620	1945	76	--	--	--	--	300	46	--
AUG										
11-11	2054	2115	47	--	174	7.7	24.0	--	--	>60000
AUG										
11-11	2054	2355	83	--	--	--	--	180	39	--
SEP										
15-15	0117	0139	15	--	292	7.3	22.0	--	--	--
SEP										
15-15	0117	0615	27	--	--	--	--	350	--	--
SEP										
19-19	0759	0821	14	--	275	7.2	21.0	--	--	75000
SEP										
19-19	0759	1140	17	--	--	--	--	170	36	--

* Analyses performed by City of Albuquerque Water Quality Laboratory

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08330200 SAN JOSE DRAIN AT WOODWARD ROAD AT ALBUQUERQUE, NM -- Continued

DATE	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- LINEITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RINE, TOTAL RESI- DUAL (MG/L) (50060)
JUL 23...	--	--	--	--	--	--	--	--	--	--
JUL 24...	24000	--	--	--	--	--	--	--	--	--
JUL 24-24	--	47	16	1.8	6.6	0.4	4.7	69	13	<0.02
AUG 06...	50000	--	--	--	--	--	--	--	--	--
AUG 06-06	--	34	12	1.0	5.1	0.4	3.9	80	7.8	--
AUG 11-11	1600000	--	--	--	--	--	--	--	--	--
AUG 11-11	--	27	9.5	0.88	4.8	0.4	2.8	61	6.3	--
SEP 15-15	160000	--	--	--	--	--	--	--	--	--
SEP 15-15	--	50	17	1.9	7.9	0.5	4.9	56	15	--
SEP 19-19	80000	--	--	--	--	--	--	--	--	--
SEP 19-19	--	63	21	2.5	13	0.7	4.9	71	26	--

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, 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, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JUL 23...	--	--	--	--	--	--	--	--	--	--
JUL 24...	--	--	--	--	--	--	--	--	--	--
JUL 24-24	5.6	114	89	324	0.590	0.070	0.660	0.290	1.0	1.3
AUG 06...	--	--	--	--	--	--	--	--	--	--
AUG 06-06	4.9	74	83	608	0.550	0.040	0.590	0.190	0.91	1.1
AUG 11-11	--	--	--	--	--	--	--	--	--	--
AUG 11-11	6.0	76	67	282	0.490	0.040	0.530	0.160	0.74	0.90
SEP 15-15	--	--	--	--	--	--	--	--	--	--
SEP 15-15	6.1	129	86	138	0.470	0.080	0.550	0.910	1.8	2.7
SEP 19-19	--	--	--	--	--	--	--	--	--	--
SEP 19-19	11	149	121	156	1.02	0.080	1.10	0.410	2.4	2.8

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08330200 SAN JOSE DRAIN AT WOODWARD ROAD AT ALBUQUERQUE, NM -- Continued

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	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)
JUL 23...	--	--	--	--	--	--	--	--	--	--
JUL 24...	--	--	--	--	<0.010	11	1	--	--	--
JUL 24-24	2.0	0.350	0.200	43	--	--	--	5	<10	1
AUG 06...	--	--	--	--	<0.010	5	1	--	--	--
AUG 06-06	1.7	0.340	0.190	53	--	--	--	6	<10	2
AUG 11-11	--	--	--	--	<0.010	10	2	--	--	--
AUG 11-11	1.4	0.240	0.130	38	--	--	--	4	<10	1
SEP 15-15	--	--	--	--	<0.010	13	2	--	--	--
SEP 15-15	3.3	0.830	0.580	36	--	--	--	5	<10	<1
SEP 19-19	--	--	--	--	<0.010	7	<1	--	--	--
SEP 19-19	3.9	0.840	0.320	75	--	--	--	5	<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 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)
JUL 23...	--	--	--	--	--	--	--	--	--
JUL 24...	--	--	--	--	--	--	--	--	--
JUL 24-24	6	29	100	0.10	7	<1	<1	<5	240
AUG 06...	--	--	--	--	--	--	--	--	--
AUG 06-06	12	33	180	0.20	13	<1	<1	<5	310
AUG 11-11	--	--	--	--	--	--	--	--	--
AUG 11-11	6	12	75	<0.10	7	<1	<1	<10	160
SEP 15-15	--	--	--	--	--	--	--	--	--
SEP 15-15	4	21	56	<0.10	5	<2	<1	<5	150
SEP 19-19	--	--	--	--	--	--	--	--	--
SEP 19-19	4	20	62	<0.10	6	<2	<1	<10	180

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08330200 SAN JOSE DRAIN AT WOODWARD ROAD AT ALBUQUERQUE, NM -- Continued

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)
JUL 23...	1937	--	--	--	--	--	--	--	--	--	--	--
JUL 24...	2045	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	11	<0.2	<0.2
JUL 24-24	2045	2345	--	--	--	--	--	--	--	--	--	--
AUG 06...	1615	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	5	<0.2	<0.2
AUG 06-06	1620	1945	--	--	--	--	--	--	--	--	--	--
AUG 11-11	2054	2115	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	10	<0.2	<0.2
AUG 11-11	2054	2355	--	--	--	--	--	--	--	--	--	--
SEP 15-15	0117	0139	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	13	<0.2	<0.2
SEP 15-15	0117	0615	--	--	--	--	--	--	--	--	--	--
SEP 19-19	0759	0821	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	7	<0.2	<0.2
SEP 19-19	0759	1140	--	--	--	--	--	--	--	--	--	--

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)
JUL 23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 24...	--	--	<20	<20	--	--	--	--	--	--	--	--
JUL 24-24	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
AUG 06...	--	--	<20	<20	--	--	--	--	--	--	--	--
AUG 06-06	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
AUG 11-11	--	--	<20	<20	--	--	--	--	--	--	--	--
AUG 11-11	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
SEP 15-15	--	--	<20	<20	--	--	--	--	--	--	--	--
SEP 15-15	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0
SEP 19-19	--	--	<20	<20	--	--	--	--	--	--	--	--
SEP 19-19	<5.0	<5.0	--	--	<5.0	<10.0	<10.0	<10.0	<0.09	<5.0	<5.0	<5.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08330200 SAN JOSE DRAIN AT WOODWARD ROAD AT ALBUQUERQUE, NM -- Continued

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)	FLUOR- ANTHENE TOTAL (UG/L) (34376)
JUL 23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 24...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
JUL 24-24	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
AUG 06...	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
AUG 06-06	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
AUG 11-11	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
AUG 11-11	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
SEP 15-15	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
SEP 15-15	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
SEP 19-19	--	<0.20	<0.2	--	--	--	--	--	--	--	<0.2	--
SEP 19-19	<5.0	--	--	<10.0	<5.0	<5.0	<0.60	<0.04	<0.10	<0.20	--	<5.0
DATE	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)	N-NITRO- SODI- METHY- LAMINE TOTAL (UG/L) (34438)	NITRO- BENZENE TOTAL (UG/L) (34447)
JUL 23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 24...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
JUL 24-24	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
AUG 06...	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
AUG 06-06	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
AUG 11-11	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
AUG 11-11	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
SEP 15-15	--	--	--	--	--	<0.2	<0.2	<0.2	--	--	--	--
SEP 15-15	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0
SEP 19-19	--	--	--	--	--	<0.2	<0.2	<0.3	--	--	--	--
SEP 19-19	<5.0	<5.0	<5.0	<10.0	<5.0	--	--	--	<5.0	<5.0	<5.0	<5.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08330200 SAN JOSE DRAIN AT WOODWARD ROAD AT ALBUQUERQUE, NM -- Continued

DATE	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)	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)
JUL 23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 24...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
JUL 24-24	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
AUG 06...	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
AUG 06-06	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
AUG 11-11	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
AUG 11-11	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
SEP 15-15	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
SEP 15-15	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
SEP 19-19	--	--	--	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	--
SEP 19-19	<30.0	<5.0	<5.0	--	--	--	--	--	--	--	<10.0	<10.0
DATE	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)	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- ATE TOTAL (UG/L) (34596)
JUL 23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 24...	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
JUL 24-24	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0
AUG 06...	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
AUG 06-06	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0
AUG 11-11	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
AUG 11-11	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0
SEP 15-15	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
SEP 15-15	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0
SEP 19-19	<5.0	<0.2	<0.2	<5.0	--	<5.0	<5.0	<1.0	--	--	--	--
SEP 19-19	--	--	--	--	<10.0	--	--	--	<5.0	<5.0	<5.0	<10.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08330200 SAN JOSE DRAIN AT WOODWARD ROAD AT ALBUQUERQUE, NM -- Continued

DATE	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)	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)
JUL 23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 24...	--	--	--	--	--	--	--	--	--	--	--	<0.2
JUL 24-24	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
AUG 06...	--	--	--	--	--	--	--	--	--	--	--	<0.2
AUG 06-06	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
AUG 11-11	--	--	--	--	--	--	--	--	--	--	--	<0.2
AUG 11-11	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
SEP 15-15	--	--	--	--	--	--	--	--	--	--	--	<0.2
SEP 15-15	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
SEP 19-19	--	--	--	--	--	--	--	--	--	--	--	<0.2
SEP 19-19	<5.0	<5.0	<5.0	<20.0	<20.0	<5.0	<20.0	<5.0	<5.0	<30.0	<30.0	--
DATE	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)	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)
JUL 23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 24...	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
JUL 24-24	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	14.0	<5.0	<40.0	--
AUG 06...	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
AUG 06-06	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	10.0	<5.0	<40.0	--
AUG 11-11	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
AUG 11-11	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	6.0	<5.0	<40.0	--
SEP 15-15	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
SEP 15-15	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	<5.0	<5.0	<40.0	--
SEP 19-19	--	--	<5.0	<0.2	<0.2	--	--	--	--	--	--	<0.2
SEP 19-19	<0.1	<5.0	--	--	--	<30.0	<0.10	<0.10	8.0	<5.0	<40.0	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08330200 SAN JOSE DRAIN AT WOODWARD ROAD AT ALBUQUERQUE, NM -- Continued

DATE	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)	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)
JUL 23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 24...	<0.2	--	--	--	--	--	--	--	--	--	--	--
JUL 24-24	--	<0.10	<0.10	<0.04	<0.040	<0.03	0.04	<0.030	0.1	<0.020	<0.060	<2
AUG 06...	<0.2	--	--	--	--	--	--	--	--	--	--	--
AUG 06-06	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	0.3	<0.020	<0.060	<2
AUG 11-11	<0.2	--	--	--	--	--	--	--	--	--	--	--
AUG 11-11	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	0.1	<0.020	<0.060	<2
SEP 15-15	<0.2	--	--	--	--	--	--	--	--	--	--	--
SEP 15-15	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	<0.1	<0.020	<0.060	<2
SEP 19-19	<0.2	--	--	--	--	--	--	--	--	--	--	--
SEP 19-19	--	<0.10	<0.10	<0.04	<0.040	<0.03	<0.03	<0.030	0.1	<0.020	<0.060	<2

DATE	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)	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)
JUL 23...	--	--	--	--	--	--	--	--	--	--	--
JUL 24...	--	--	--	--	--	--	--	--	--	<5.0	<0.2
JUL 24-24	<0.030	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	--	--
AUG 06...	--	--	--	--	--	--	--	--	--	<5.0	<0.2
AUG 06-06	<0.030	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	--	--
AUG 11-11	--	--	--	--	--	--	--	--	--	<5.0	<0.2
AUG 11-11	<0.030	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	--	--
SEP 15-15	--	--	--	--	--	--	--	--	--	<5.0	<0.2
SEP 15-15	<0.030	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	--	--
SEP 19-19	--	--	--	--	--	--	--	--	--	<5.0	<0.2
SEP 19-19	<0.030	<0.80	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

08330200 SAN JOSE DRAIN AT WOODWARD ROAD AT ALBUQUERQUE, NM -- Continued

DATE	STYRENE TOTAL (UG/L) (77128)	1,1-DI CHLORO- PRO- PENE, WAT. WH TOTAL (UG/L) (77168)	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)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)
JUL 23...	--	--	--	--	--	--	--	--	--	--	--
JUL 24...	<0.2	<0.2	<0.2	<0.2	0.30	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
JUL 24-24	--	--	--	--	--	--	--	--	--	--	--
AUG 06...	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
AUG 06-06	--	--	--	--	--	--	--	--	--	--	--
AUG 11-11	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
AUG 11-11	--	--	--	--	--	--	--	--	--	--	--
SEP 15-15	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
SEP 15-15	--	--	--	--	--	--	--	--	--	--	--
SEP 19-19	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20
SEP 19-19	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	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)
JUL 23...	--	--	--	--	--	--	--	--	--	--	--
JUL 24...	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	0.70	<0.2	<1.0	--
JUL 24-24	--	--	--	--	--	--	--	--	--	--	<5.0
AUG 06...	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.20	<0.2	<1.0	--
AUG 06-06	--	--	--	--	--	--	--	--	--	--	<5.0
AUG 11-11	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.20	<0.2	<1.0	--
AUG 11-11	--	--	--	--	--	--	--	--	--	--	<5.0
SEP 15-15	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.20	<0.2	<1.0	--
SEP 15-15	--	--	--	--	--	--	--	--	--	--	<5.0
SEP 19-19	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.2	<0.20	<0.2	<1.0	--
SEP 19-19	--	--	--	--	--	--	--	--	--	--	<5.0

08330505 TIJERAS ARROYO ABOVE FOUR HILLS BRIDGE AT ALBUQUERQUE, NM

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)
		(00095)	(00400)	(00020)	(00010)	(00900)	(00915)	(00925)	(00930)	(00931)	(00935)	(90410)
MAY 20...	0930	930	8.3	19.0	15.5	370	100	28	51	1	3.0	194
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)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
MAY 20...	130	110	0.60	16	558	<0.010	<0.010	0.740	0.770	<0.010	<0.010	<0.20

RIO GRANDE BASIN -- Continued

[illegible]

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

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)	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)
DEC 17...	1015	43	1480	8.0	5.5	4.0	400	170	120	23	160	4
DATE		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)	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 TOTAL (MG/L AS N) (00620)
DEC 17...	8.5	251	10	222	370	150	0.60	17	1160	986	0.460	
DATE		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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
DEC 17...	0.490	0.010	0.010	0.470	0.500	0.030	0.020	0.27	0.30	0.77	0.020	
DATE		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)	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)
DEC 17...	<0.010	<0.010	<0.010	10	2	95	<1.0	<1	<3	<1	11	
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)
DEC 17...	<1	110	35	<0.1	<10	<1	<1	<1.0	1400	<6	<10	

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BELOW PICACHO BRIDGE NR LAS CRUCES, NM (321745106492510)

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)	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)	
DEC 17...	1230	55	1580	8.3	12.0	7.0	18	400	160	120	24	180	
DATE		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)	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)	
DEC 17...	4	11		278	5	236	380	180	0.70	17	1150	1060	
DATE		NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
DEC 17...	0.350	0.360	0.010	0.010	0.360	0.370	0.040	0.030	0.26	0.30	0.66	0.020	
DATE		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)	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)	
DEC 17...	<0.010	<0.010	<0.010	<10	<1	100	<1.0	<1	<3	<1		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)	
DEC 17...	<1	140	17	<0.1	<10	<1	<1	<1	<1.0	1500	<6	<10	

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

RIO GRANDE BELOW MESILLA DAM NR SANTO TOMAS, NM (321317106471510)

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)	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)	
DEC 17...	1450	46	1540	8.4	13.0	11.0	20	370	160	110	23	180	
DATE		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)	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)	
DEC 17...	4	11	239	12	216	340	160	0.70	17	1050	980		
DATE		NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	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)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
DEC 17...	0.990	0.990	0.110	0.110	1.10	1.10	1.00	0.770	0.70	1.7	2.8	0.560	
DATE		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)	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)	
DEC 17...	0.460	0.470	0.440	<10	2	97	<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)	
DEC 17...	<1	130	8	<0.1	<10	<1	<1	<1.0	1400	<6	<10		

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

RIO GRANDE AT NM 227 BRIDGE NEAR VADO, NM (320648106400510)

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)	TURBIDITY (NTU) (00076)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	
DEC 18...	0925	48	1490	8.4	8.0	7.5	8.8	370	150	110	22	180	
DATE		SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	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)	
DEC 18...	4	11	239	10	212	320	150	0.70	14	1110	946		
DATE		NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
DEC 18...	1.48	1.48	0.120	0.120	1.60	1.60	0.740	0.570	0.66	1.4	3.0	0.590	
DATE		PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUMINUM, 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)	
DEC 18...	0.490	0.480	0.470	<10	2	110	<1.0	<1	<3	2	11		
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)	
DEC 18...	<1	130	16	<0.1	<10	<1	<1	<1.0	1300	<6	<10		

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

RIO GRANDE BASIN -- Continued

RIO GRANDE AT TX 259 BRIDGE AT CANUTILLO, TX (315454106360610)

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)	TUR-BID-ITY (NTU) (00076)	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)
DEC 18...	1215	107	1660	8.4	10.0	9.0	6.0	380	120	110	24	210
DATE		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 TOT IT FIELD (MG/L AS 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, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
DEC 18...	5	11	281	12	250	380	180	0.70	17	1090	1090	
DATE		NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
DEC 18...	1.20	1.20	0.100	0.100	1.30	1.30	0.160	0.200	0.74	0.90	2.2	0.330
DATE		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)	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)
DEC 18...	0.240	0.230	0.220	<10	2	79	<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)
DEC 18...	<1	150	10	<0.1	10	<1	<1	<1.0	1400	<6	<10	

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

PECOS RIVER BASIN

NORTH DRAIN NR FORT SUMNER, NM (342416104120010)
(FORT SUMNER IRRIGATION PROJECT)

DATE	TIME	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39333)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39343)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39351)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39363)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39368)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39373)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39383)	
MAR 20...	0930	<1.0	<0.1	<0.1	<1.0	<0.1	1.0	<0.1	<0.1	
DATE	TIME	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39393)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39413)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39519)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG) (81886)
MAR 20...	<0.1	<0.1	<10	<0.1	<0.1	<0.1	<1	<0.1	<1.00	

SOUTH DRAIN NR FORT SUMNER, NM (342107104102510)

DATE	TIME	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39333)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39343)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39351)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39363)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39368)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39373)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39383)	
MAR 20...	1100	<1.0	<0.1	<0.1	<1.0	<0.1	0.2	<0.1	<0.1	
DATE	TIME	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39393)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39413)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39519)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG) (81886)
MAR 20...	<0.1	<0.1	<10	<0.1	<0.1	<0.1	<1	<0.1	<1.00	

BITTER LAKE NATIONAL WILDLIFE REFUGE POND 16 NR ROSWELL, NM (332510104243010)

DATE	TIME	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39333)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39343)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39351)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39363)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39368)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39373)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39383)	
DEC 18...	1030	<1.0	<0.1	<0.2	<1.0	0.2	2.0	0.1	<0.1	
DATE		ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39393)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39413)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39519)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG) (81886)
DEC 18...		<0.1	<0.1	<10	<0.1	<0.1	<1.0	<1	<0.1	<1.00

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

PECOS RIVER BASIN -- Continued

BRANTLEY RESERVOIR AT MCMILLAN DAMSITE, NR CARLSBAD, NM (323550104210010)

DATE	TIME	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39333)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39343)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39351)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39363)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39368)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39373)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39383)	
DEC 17...	1630	<1.0	<0.1	<0.1	<1.0	<0.1	0.4	<0.1	<0.1	
DATE	TIME	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39393)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39413)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39519)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG) (81886)
DEC 17...	<0.1	<0.1	<10	<0.1	<0.1	<1.0	<1	<0.1	<1.00	

MOUTH OF CASS DRAW NR LOVING, NM (322006104064010)
(CARLSBAD IRRIGATION PROJECT)

DATE	TIME	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39333)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39343)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39351)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39363)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39368)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39373)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39383)	
MAR 19...	1500	<1.0	<0.1	<0.1	1.0	0.5	10	0.1	<0.1	
DATE		ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39393)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39413)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39519)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG) (81886)
MAR 19...	<0.1	<0.1	<10	<0.1	<0.1	<0.1	<1	<0.1	<1.00	

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

PECOS RIVER BASIN -- Continued

MOUTH OF DRAIN D NR LOVING, NM (321808104025210)
(CARLSBAD IRRIGATION PROJECT)

		PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39333)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39343)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39351)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39363)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39368)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39373)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39383)	
MAR 19...	1230	<1.0	<0.1	<0.1	<1.0	<0.1	4.4	<0.1	<0.1	
DATE		ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39393)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39413)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39519)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG) (81886)
MAR 19...	<0.1	<0.1	<10	<0.1	<0.1	<0.1	<1	<0.1	<1.00	

BLACK RIVER AT MOUTH NR MALAGA, NM (321433104025010)

DATE	TIME	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39333)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39343)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39351)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39363)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39368)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39373)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39383)	
MAR 19...	1000	<1.0	<0.1	<0.1	<1.0	0.3	6.8	0.1	<0.1	
DATE	TIME	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39393)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39413)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39519)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG) (81886)
MAR 19...	<0.1	<0.1	<10	<0.1	<0.1	<1.0	<1	<0.1	<1.00	

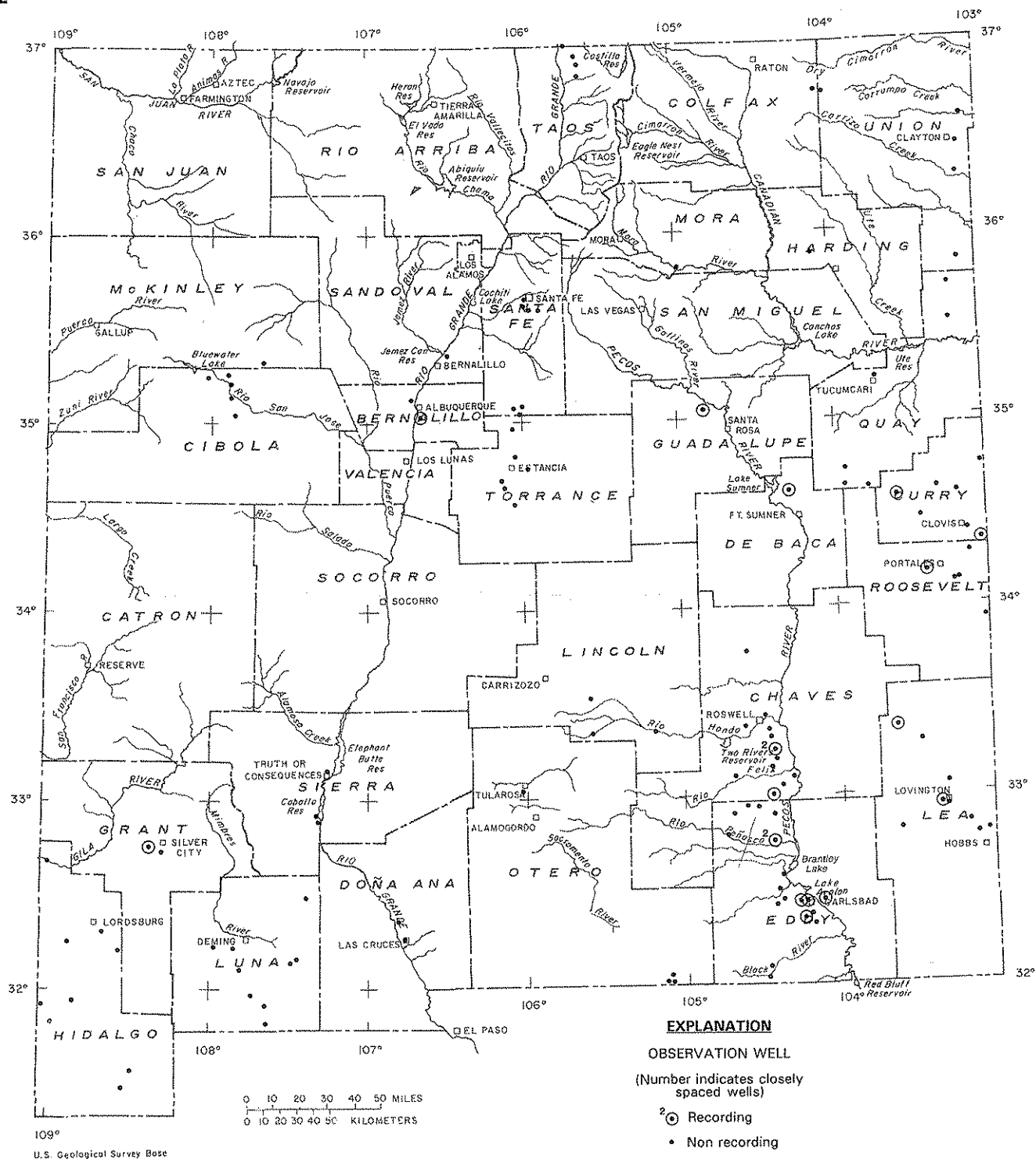


Figure 8.--Location of observation wells.

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, 41.05 ft below land-surface datum, July 2, 1990.WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	35.40	32.23	33.36	33.89	32.75	34.82	35.35	35.85	33.54	40.49	37.54	37.14
10	35.24	33.55	33.87	34.15	35.15	33.64	35.81	36.07	33.27	39.29	36.90	37.53
15	34.58	32.86	33.73	33.16	34.41	33.06	34.48	35.46	35.47	37.35	36.67	38.14
20	33.43	32.26	33.64	32.53	34.19	34.29	33.51	35.63	37.08	39.70	37.03	36.59
25	32.79	31.97	33.59	33.34	34.82	33.65	35.42	33.70	37.14	38.35	36.77	36.41
EOM	32.15	33.21	33.38	33.77	35.15	33.21	36.07	34.35	38.35	38.08	35.60	35.96

WTR YEAR 1992 HIGHEST 31.97 NOV 25, 1991 LOWEST 40.54 JUL 5, 1992

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, 39.16 ft below land-surface datum, July 28, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	37.61	NOV 27	37.17	DEC --	-- --	JAN 24	36.24	FEB 27	35.97	MAR 24	35.79
APR 30	37.14	MAY 27	37.45	JUNE 29	38.41	JULY 28	39.16	AUG 26	39.10	SEP 28	38.64

CHAVES COUNTY
Roswell Basin

334138104343801. (formerly 334645104344501) Local number, 07S.23E.23.244.

LOCATION.--Lat 33°46'45", long 104°34'45", Hydrologic Unit 13060005. Owner: Jess Corn.

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 15	263.32
Aug. 5	267.47

GROUND-WATER LEVELS

CHAVES COUNTY
Roswell Basin

332615104303601. Local number, 10S.24E.21.212.

LOCATION.--Lat 33°26'15", long 104°30'36", Hydrologic Unit 13060008. Owner: Pecos Valley Artesian Conservancy District.

AQUIFER.--San Andres Limestone.

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.

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	39.10	NOV 25	37.10	DEC 24	35.68	JAN 25	34.50	FEB 25	33.70	MAR 25	36.30
APR 24	38.70	MAY 25	36.80	JUNE 25	38.70	JULY 25	41.10	AUG 25	41.00	SEP 25	41.10

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 14	173.72
Aug. 6	176.84

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 15	12.67
Aug. 6	19.36

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 15	68.44
Aug. 6	72.48

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, 5.16 ft below land-surface datum, Feb. 27, 1992; lowest measured, 199.68 ft below land-surface datum, June 20, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	36.85	22.12	12.61	8.69	6.37	12.50	101.07	68.62	61.39	101.08	116.27	101.39
10	41.88	21.15	12.62	8.56	6.07	22.45	114.36	61.27	63.34	122.62	113.57	108.25
15	43.66	17.99	11.40	8.21	6.38	34.15	110.76	85.50	61.65	126.86	127.93	108.63
20	39.07	16.10	10.62	7.73	6.23	56.52	82.73	89.96	87.30	121.48	127.34	95.90
25	35.57	14.59	10.40	7.36	5.53	79.60	82.50	47.90	97.70	126.10	115.26	90.29
ECM	27.94	13.57	9.53	7.01	7.29	104.95	78.30	46.29	84.50	121.68	103.65	74.70

WTR YEAR 1992 HIGHEST 5.16 FEB 27, 1992 LOWEST 136.42 AUG 14, 1992

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, 102.79 ft below land-surface datum, Apr. 6, 1969; lowest measured, 111.17 below land-surface datum, Sep. 22, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	105.39	105.38	105.13	104.91	104.53	104.25	103.91	103.87	103.85	103.95	104.25	104.45
10	105.44	105.36	105.06	104.84	104.53	104.14	103.89	103.87	103.90	103.97	104.25	104.53
15	105.44	105.29	105.03	104.80	104.47	104.10	103.84	103.87	103.87	104.00	104.30	104.54
20	105.41	105.27	105.04	104.76	104.41	104.06	103.84	103.87	103.90	104.09	104.30	104.50
25	105.40	105.22	104.97	104.61	104.40	103.96	103.89	103.88	103.89	104.19	104.43	104.53
ECM	105.44	105.21	104.94	104.60	104.34	103.92	103.82	103.87	103.87	104.26	104.39	104.65

WTR YEAR 1992 HIGHEST 103.81 APR 18, 1992 LOWEST 105.63 NOV 2, 1992

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.

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 15	80.85
Aug. 7	87.62

GROUND-WATER LEVELS

CHAVES COUNTY
Roswell Basin

331002104254701. (formerly 331002104272001) Local number, 13S.25E.27.211.

LOCATION.--Lat 33°10'02", long 104°25'47", Hydrologic Unit 13060007. Owner: Hal Bogle.

AQUIFER.--San Andres Limestone.

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, 3.23 ft above land-surface datum, Jan. 27, 1989;
lowest measured, 198.30 ft below land-surface datum, July 18, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	32.45	NOV 25	4.10	DEC --	-- --	JAN 24	.05	FEB 25	3.40	MAR 25	86.80
APR 24	93.10	MAY 25	55.40	JUNE 25	111.45	JULY 25	144.10	AUG 25	127.90	SEP 25	103.30

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 15	286.58
Aug. 6	286.24

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 16	18.04
Aug. 6	15.34

330404104221201. Local number, 14S.26E.30.444.

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, 65.19 ft below land-surface datum, Feb. 10, 1988;
lowest measured, 261.75 ft below land-surface datum, Aug. 18, 1988.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 16	67.10
Aug. 6	246.42

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, 28.06 ft above land-surface datum, Feb. 10, 1992; lowest measured, 102.30 ft below land-surface datum, July 17, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY HIGHEST VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	+ 14.91	+ 20.22	+ 22.53	+ 25.41	+ 27.03	+ 12.24	36.22	8.34	+ 14.16	26.98	25.75	27.40
10	+ 19.97	---	---	+ 26.67	+ 28.06	---	---	---	---	---	---	---
15	+ 17.22	+ 21.03	---	+ 25.41	+ 22.18	+ 0.40	34.96	15.06	+ 7.32	48.13	52.96	14.03
20	---	+ 22.98	+ 25.98	---	+ 27.13	---	39.93	37.43	52.66	17.77	6.02	---
25	---	---	---	+ 26.33	+ 24.25	8.20	12.93	+ 2.00	44.40	39.73	36.43	+ 0.37
EOM	+ 21.13	---	+ 26.44	+ 27.83	+ 20.90	29.10	30.77	46.36	61.22	2.83	26.06	---

WTR YEAR 1992 HIGHEST +28.03 FEB 20, 1992 LOWEST 52.96 AUG 15, 1992

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 25	28.73
Aug. 10	28.82

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 25	22.02
Aug. 10	24.44

351304107543701. (formerly 351400107524201) Local number, 12N.10W.29.434.

LOCATION.--Lat 35°14'00", long 107°52'42", Hydrologic Unit 13020207. Owner: A. R. Card.

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 24	80.42
Aug. 10	86.40

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: Tom Yager.
 AQUIFER.--San Andres Limestone and Yeso Formation of Permian Age.
 WELL CHARACTERISTICS.--Drilled artesian unused well, diameter 16 in., reported depth 505 ft, 16 in. casing to 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	97.67	NOV 21	98.09	DEC 17	98.55	JAN 29	99.15	FEB 19	99.49	MAR 26	99.62
APR 23	99.85	MAY 21	99.38	JUNE 24	99.34	JULY 29	99.44	AUG 20	98.54	SEP 24	98.67

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 Yeso 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, Sept. 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 24	85.95
Aug. 10	86.06

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 10	7.91
July 29	8.48

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Apr. 14	136.39
Aug. 12	136.65

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.

REMARKS.--Recorder installed Aug. 1988. Records good.

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 1991 TO SEPTEMBER 1992
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	227.05	226.87	226.66	226.43	226.27	226.09	227.80	230.24	227.68	229.03	232.30	230.51
10	227.02	226.85	226.61	226.42	226.24	226.08	228.00	228.69	227.60	231.56	232.30	232.13
15	226.99	226.76	226.60	226.38	226.21	226.24	228.49	228.86	227.84	231.76	232.33	232.10
20	227.06	226.75	226.49	226.36	226.21	226.45	228.60	230.42	229.90	232.27	231.85	231.15
25	227.05	226.71	226.48	226.33	226.20	228.63	229.07	228.62	229.33	232.27	230.64	231.17
EOM	226.87	226.66	226.46	226.32	226.17	228.06	230.40	228.00	228.61	230.83	232.31	230.66

WTR YEAR 1992 HIGHEST 226.08 MAR 8, 1992 LOWEST 233.30 SEP 13, 1992

342358103093601. Local number, 02N.36E.15.111.

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 7	285.91
Aug. 20	287.66

GROUND-WATER LEVELS

CURRY COUNTY
Clovis area

342736103203701. (formerly 342815103270001) Local number, 03N.34E.23.433.
 LOCATION.--Lat 34°27'36", long 103°20'37", Hydrologic Unit 12050001. Owner: Archie Baker.
 AQUIFER.--Ogallala formation.
 WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 16 in., depth 418 ft, cased to 418 ft, perforated 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 4	357.67
Aug. 21	357.85

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. Records good.
 PERIOD OF RECORD.--Jan. 1980 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 298.45 ft above land-surface datum, May 27, 1992;
 lowest measured, 309.92 ft below land-surface datum, Jan. 9, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	299.43	298.93	299.11	299.03	298.91	298.73	298.84	298.79	298.57	298.67	298.65	298.83
10	299.39	299.01	299.11	299.26	299.04	299.19	298.78	298.67	298.80	298.66	298.72	299.03
15	299.25	298.88	299.26	299.18	299.04	299.05	298.72	298.78	298.68	298.64	298.64	299.13
20	299.17	299.37	299.03	299.06	299.09	298.92	298.87	298.65	298.77	298.69	298.56	298.87
25	299.19	299.08	299.06	299.10	299.24	299.03	299.04	298.63	298.64	298.69	298.75	298.83
ECM	299.17	299.02	299.09	299.10	299.08	298.82	298.69	298.70	298.58	298.80	298.80	299.07

WTR YEAR 1992 HIGHEST 298.45 MAY 27, 1992 LOWEST 299.43 OCT 5, 1991

343745103201501. (formerly 343743103201501) Local number, 05N.34E.21.443.
 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, 437.91 ft below land-surface datum, Aug. 20, 1992;
 lowest measured, 448.41 ft below land-surface datum, Jan. 6, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 3	438.26
Aug. 20	437.91

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.
 REMARKS.--"r" indicates well pumped recently.
 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, 446.23 ft below land-surface datum, Aug. 27, 1990.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 4	445.17
Aug. 20	446.19

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.--Sept. 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 252.14 ft above land-surface datum, Sept. 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 1991 TO SEPTEMBER 1992
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	271.85	271.69	271.58	271.33	271.45	271.45	270.95	271.23	---	271.15	---	270.61
10	271.68	271.68	271.67	271.57	271.27	271.39	271.19	270.73	270.94	270.78	---	270.70
15	271.57	271.58	271.83	271.48	271.23	271.27	271.08	---	271.10	270.87	270.87	270.68
20	271.72	271.86	271.74	271.52	271.42	271.00	270.72	---	270.92	---	270.81	270.68
25	271.56	271.63	271.49	271.26	271.26	271.15	270.98	---	271.05	---	270.63	270.85
ECM	271.75	271.63	271.45	271.52	271.18	271.25	271.07	---	271.20	---	270.62	271.03

WTR YEAR 1992 HIGHEST 270.56 SEP 4, 1992 LOWEST 271.96 NOV 23, 1991

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.

INSTRUMENTATION.--Periodic steel-tape measurements.

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, 10.10 ft below land-surface datum, Sep. 11, 1989; lowest measured, 25.57 ft below land-surface datum, Apr. 25, 1957.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 21	12.27
July 27	10.40

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 21	19.53
July 27	18.54

GROUND-WATER LEVELS

EDDY COUNTY
Roswell Basin

325516104404601. (formerly 325510104410001) Local number, 16S.23E.15.322333.

LOCATION.--Lat 32°55'10", long 104°41'00", Hydrologic Unit 13060007. Owner: D. W. Runyan.

AQUIFER.--Yesso formation

WELL CHARACTERISTICS.--Drilled oil test well, used for stock water, diameter 10 in., depth 1,458 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 16	235.38
Aug. 6	236.20

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 16	58.76
Aug. 6	not measured

325638104274801. Local number, 16S.25E.11.111A.

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	58.68	NOV 21	57.75	DEC 23	56.81	JAN 28	55.95	FEB --	-- --	MAR 27	55.23
APR 24	56.22	MAY 26	56.80	JUNE 29	56.29	JULY 24	56.58	AUG 25	57.92	SEP --	-- --

GROUND-WATER LEVELS

EDDY COUNTY
Roswell Basin

325450104251101. (formerly 325445104253501) Local number, 16S.26E.19.211.
 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.
 REMARKS.--"p" indicates pumping water level.
 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 16	102.39
Aug. 6	140.89p

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 13	536.22
Aug. 10	536.98

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.--Records good.
 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 1991 TO SEPTEMBER 1992
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	106.88	90.24	81.43	75.77	68.95	65.82	105.98	101.26	88.05	113.20	121.42	136.96
10	103.91	89.22	80.19	75.07	68.78	68.37	110.39	99.08	85.45	120.40	124.37	136.90
15	99.42	87.08	79.04	73.04	67.75	74.10	112.01	107.39	84.23	125.50	131.83	138.66
20	96.73	86.20	77.71	72.01	68.30	82.73	109.78	107.20	92.61	125.36	130.63	123.06
25	94.66	84.33	76.54	70.94	67.21	88.30	110.66	96.20	103.29	128.58	130.60	119.39
EOM	92.33	82.70	76.49	69.93	66.45	99.09	108.82	91.31	108.66	124.38	132.23	116.44

WTR YEAR 1992 HIGHEST 65.82 MAR 5 1992 LOWEST 138.88 SEP 11, 1992

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 246 ft, casing 0-246 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 1991 TO SEPTEMBER 1992
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	129.38	124.00	119.91	116.45	113.63	111.53	116.02	121.56	121.42	121.04	125.95	128.60
10	128.43	123.31	119.23	116.00	113.34	111.46	117.49	121.73	120.70	121.97	126.37	129.07
15	127.51	122.52	118.82	115.64	112.92	111.60	118.81	122.26	119.81	123.10	126.83	129.60
20	126.57	121.89	118.14	114.99	112.51	112.54	119.60	122.92	119.32	123.87	127.02	129.34
25	125.77	121.13	117.53	114.70	112.36	113.58	120.56	122.97	119.63	124.80	127.29	128.95
EOB	124.90	120.67	116.96	114.15	111.90	114.79	121.09	122.35	120.07	125.58	127.94	128.52

WTR YEAR 1992 HIGHEST 111.31 MAR 7, 1992 LOWEST 130.22 OCT 1, 1992

324325104233001. Local number, 18S.26E.28.122.

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	123.32	NOV 21	123.14	DEC 23	123.14	JAN 28	123.23	FEB 25	123.24	MAR 26	123.13
APR 24	123.17	MAY 26	123.12	JUNE 29	123.08	JULY 27	123.13	AUG 25	123.21	SEP 28	123.24

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 9	36.06
Aug. 29	pumping

323542104242701. (formerly 323540104232001) Local number, 20S.26E.08.1211.

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	28.65	NOV 21	28.65	DEC 23	30.03	JAN 28	29.41	FEB 25	28.45	MAR 26	26.21
APR 24	26.83	MAY 26	25.47	JUNE 29	26.10	JULY 27	28.47	AUG 25	31.87	SEP 28	33.30

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 1991 TO SEPTEMBER 1992
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.04	21.10	20.87	20.83	20.98	20.88	21.44	22.10	20.05	19.47	20.34	20.68
10	21.08	21.01	20.79	20.94	21.02	21.08	21.40	21.98	19.62	19.84	20.62	20.80
15	21.14	20.95	20.86	20.95	20.94	21.19	21.54	22.11	19.29	20.25	20.83	21.01
20	21.16	21.08	20.70	20.99	20.95	21.35	21.50	22.00	19.20	20.12	20.84	20.91
25	21.20	21.03	20.62	21.01	21.01	21.39	21.85	21.71	18.96	20.22	20.78	21.01
ECM	21.38	20.97	20.76	21.01	20.92	21.44	22.02	20.92	19.04	20.25	20.73	21.15

WTR YEAR 1992 HIGHEST 18.89 JUN 27, 1992 LOWEST 22.36 MAY 7, 1992

322636104125801. (formerly 322640104165801) Local number, 21S.27E.32.112.

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 9	11.55
Aug. 25	11.73

322712104074501. (formerly 322710104073901) Local number, 21S.28E.30.141.

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 1991 TO SEPTEMBER 1992
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	92.69	92.58	92.28	92.09	92.25	92.17	92.73	93.39	91.36	90.70	91.44	91.83
10	92.67	92.47	92.20	92.25	92.31	92.35	92.69	93.27	90.91	91.01	91.77	91.99
15	92.70	92.38	92.28	92.25	92.25	92.41	92.77	93.39	90.56	91.40	92.03	92.16
20	92.71	92.49	92.08	92.25	92.24	92.60	92.79	93.26	90.54	91.35	92.02	92.10
25	92.70	92.43	92.02	92.28	92.33	92.68	93.11	93.04	90.22	91.40	91.98	92.22
ECM	92.85	92.40	92.12	92.30	92.19	92.69	93.19	92.26	90.26	91.43	91.92	92.38

WTR YEAR 1992 HIGHEST 90.11 JUN 28, 1992 LOWEST 93.59 MAY 6, 1992

GROUND-WATER LEVELS

EDDY COUNTY
Carlsbad Area

322120104151501. Local number, 22S.26E.25.3333. (formerly 22S.26E.36.111A)

LOCATION.--Lat 32°21'20", long 104°15'15", Hydrologic Unit 13060011. Owner: Carlsbad Airfield.

AQUIFER.--Alluvium.

WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 12 in., depth 260 ft, cased to 260 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.--Lost record, one month, due to recorder malfunction.

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 1991 TO SEPTEMBER 1992
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	167.01	162.97	156.17	151.54	148.90	147.53	150.63	---	158.28	157.58	159.83	158.36
10	166.73	161.72	155.20	151.08	148.62	147.56	151.94	---	157.32	158.15	159.97	158.04
15	166.89	160.34	154.59	150.61	148.33	147.40	153.26	---	156.38	158.99	160.00	157.93
20	166.53	159.27	153.78	150.07	148.15	147.55	154.08	---	156.83	159.64	159.46	157.81
25	165.48	158.16	152.99	149.76	148.10	148.07	154.94	---	157.53	159.65	158.89	157.80
ECM	164.19	157.12	152.19	149.33	147.87	149.30	155.26	159.23	157.30	159.61	158.98	157.88

WTR YEAR 1992 HIGHEST 147.27 MAR 17, 1992 LOWEST 168.12 OCT 1, 1992

322238104101801. (formerly 322231104131001) Local number, 22S.27E.22.421.

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 9	36.39
Aug. 25	33.22

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.--Lost record, several days, due to recorder malfunction.

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 1991 TO SEPTEMBER 1992
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	398.86	398.78	398.51	398.30	398.53	398.44	399.11	399.92	---	397.85	398.33	398.26
10	398.84	398.67	398.43	398.50	398.54	398.64	399.09	399.63	---	398.27	398.61	398.37
15	398.80	398.54	398.50	398.44	398.53	398.69	399.13	399.98	---	398.47	398.78	398.46
20	398.93	398.67	398.36	398.48	398.63	398.92	399.19	399.69	---	398.35	398.77	398.45
25	398.90	398.60	398.30	398.49	398.70	399.00	399.53	399.51	---	398.43	398.69	398.55
ECM	398.92	398.52	398.26	398.55	398.61	399.04	399.67	---	397.43	398.34	398.59	398.70

WTR YEAR 1992 HIGHEST 397.43 JUN 30, 1992 LOWEST 400.19 MAY 6, 1992

GROUND-WATER LEVELS

EDDY COUNTY
Carlsbad Area

321939104113301. (formerly 321930104113301) Local number, 23S.27E.09.211.
 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 9	55.05
Aug. 25	53.46

320604104284101. (formerly 320602104285201) Local number, 25S.24E.27.421.
 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 13	53.58
Aug. 26	57.22

320316104294301. (formerly 320257104295201) Local number, 26S.24E.09.441.
 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 13	37.93
Aug. 25	37.35

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.
 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, 386.40 ft below land-surface datum, Jan. 5, 1990.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 7	380.39
July 2	379.89

GROUND-WATER LEVELS

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 unused well, diameter 12 in., depth 580 ft.

INSTRUMENTATION.--Digital recorder, 1-hour punch.

DATUM.--Elevation of land-surface datum is 5,845 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of 12 in. casing, 1.50 ft above land-surface datum.

REMARKS.--Records good.

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 1991 TO SEPTEMBER 1992
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	292.30	292.13	292.64	292.28	292.28	292.17	291.87	291.22	291.20	291.62	291.96	291.97
10	292.39	292.11	292.45	292.39	292.33	292.23	291.73	291.23	291.37	291.64	292.07	292.01
15	292.30	292.12	292.75	292.40	292.28	292.15	291.59	291.25	291.28	291.74	292.09	292.01
20	292.07	292.69	292.27	292.35	292.41	292.06	291.54	291.22	291.39	292.04	292.01	291.94
25	292.03	292.51	292.32	292.40	292.47	292.07	291.66	291.32	291.36	292.12	292.05	291.93
EOM	292.03	292.30	292.44	292.37	292.31	291.92	291.45	291.31	291.40	292.00	291.90	292.16

WTR YEAR 1992 HIGHEST 291.20 JUN 5, 1992 LOWEST 292.91 DEC 14, 1992

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.--Lost record, several days, due to recorder malfunction.

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 1991 TO SEPTEMBER 1992
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	345.49	346.04	346.18	346.26	346.40	346.67	346.25	345.36	344.16	344.36	344.93	345.55
10	345.52	346.03	346.20	346.29	346.46	346.64	346.14	345.13	344.09	344.05	345.05	346.16
15	345.49	346.07	346.26	346.33	346.49	346.57	345.93	345.03	343.94	344.28	345.23	345.82
20	345.56	346.11	346.23	346.38	346.54	346.60	345.74	344.86	343.93	344.48	345.20	345.93
25	345.69	346.13	346.21	346.44	346.68	346.51	345.81	---	343.82	344.73	345.37	346.08
EOM	345.88	346.21	346.24	346.46	346.64	346.31	345.48	---	343.76	344.85	345.33	346.39

WTR YEAR 1992 HIGHEST 343.67 JUN 27, 1992 LOWEST 347.26 FEB 27, 1992

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 28	50.54
July 31	50.84

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, 9.27 ft below land-surface datum, Jan. 12, 1979;
 lowest measured, 15.79 ft below land-surface datum, Aug. 4, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 21	11.08
July 6	10.77

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 23	164.70
July 6	170.59

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 23	87.85
July 6	90.04

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, 53.44 ft below land-surface datum, July 11, 1990.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 23	53.22
July 7	53.24

GROUND-WATER LEVELS

HIDALGO COUNTY
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.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 358 ft, cased to 358 ft.

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 23	176.80
July 7	181.41

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 24	125.76
July 8	126.14

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 24	122.10
July 8	122.79

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 21	46.84
July 6	46.77

GROUND-WATER LEVELS

HILDALGO 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 21	86.94
July 6	86.78

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 1989;
 lowest measured, 62.46 ft below land-surface datum, Sept. 18, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
 DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	62.23	62.31	---	62.25	62.20	62.21	62.00	61.87	61.85	62.13	62.20	62.39
10	62.25	62.31	---	62.28	62.20	62.07	61.88	61.86	61.89	62.15	62.18	62.39
15	62.26	62.32	---	62.27	62.20	62.07	61.87	61.85	62.02	62.21	62.19	62.40
20	62.26	62.33	62.27	62.25	62.23	62.02	61.87	61.83	62.08	62.26	62.36	62.41
25	62.28	62.32	62.25	62.22	62.22	62.01	61.86	61.84	62.09	62.26	62.37	62.41
EOM	62.28	---	62.26	62.20	62.21	62.00	61.86	61.83	62.12	62.23	62.37	62.41

WTR YEAR 1992 HIGHEST 61.81 MAY 22, 1992 LOWEST 62.46 SEP 18, 1991

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 2	31.70
Aug. 19	31.36

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, 43.09 ft below land-surface datum, Jan. 6, 1982;
 lowest measured, 43.80 ft below land-surface datum, Sept. 3, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 2	43.80
Aug. 19	43.25

GROUND-WATER LEVELS

LEA COUNTY
Tatum-Lovington-Hobbs Area

330405103194501. (formerly 330400103193401) Local number, 14S.36E.32.121.
 LOCATION.--Lat 33°04'00", long 103°19'34", Hydrologic Unit 12080003. Owner: E. T. Howell.
 AQUIFER.--Ogallala formation.
 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 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 6	67.37
Aug. 19	67.34

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 record, several days, due to recorder malfunction.
 PERIOD OF RECORD.--Aug. 1971 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 58.30 ft below land-surface datum, Sep. 30, 1992; lowest measured, 67.11 ft below land-surface datum, Aug. 24, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	59.86	59.58	59.42	59.27	59.03	59.00	58.89	59.00	58.83	58.76	58.62	58.46
10	59.81	59.56	59.37	59.26	59.03	59.00	58.88	58.89	58.81	58.73	58.59	58.43
15	59.76	59.51	59.37	59.24	59.02	59.04	58.87	58.88	58.80	58.71	58.57	58.38
20	59.70	59.50	59.35	59.22	59.01	59.02	58.88	58.87	58.80	58.70	58.54	58.35
25	59.65	59.47	59.29	59.20	59.02	59.02	58.87	58.81	58.83	58.67	58.52	58.31
ECM	59.62	59.45	59.20	59.06	59.00	58.89	58.88	58.87	58.81	58.66	58.47	58.30

WTR YEAR 1992 HIGHEST 58.30 SEP 30, 1992 LOWEST 59.91 OCT 1, 1992

325658103200001. Local number, 16S.37E.11.111.
 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 7	66.28
Aug. 19	65.93

324940103365801. (formerly 324947103371001) Local number, 17S.33E.13.341.
 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 8	179.10
Aug. 19	175.96

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. Sebings.

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 2	66.61
Aug. 19	66.35

324745103082001. Local number, 17S.38E.34.113.

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, 63.70 ft below land-surface datum, July 30, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 2	63.34
Aug. 19	63.31

LINCOLN COUNTY
Hondo Valley

333241105341101. (formerly 333242105340701) Local number, 09S.14E.10.132.

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, 36.69 ft below land-surface datum, Jan. 14, 1992;
lowest measured, 69.77 ft below land-surface datum, Nov. 28, 1956.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 14	36.69
Aug. 6	37.68

332102105333601. (formerly 332145105333001) Local number, 11S.14E.15.432.

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 14	59.63
Aug. 6	59.23

GROUND-WATER LEVELS

LINCOLN COUNTY
Hondo Valley

332110105092501. (formerly 332157105094101) Local number, 11S.18E.15.333.
 LOCATION.--Lat 32°21'02", long 105°09'41", Hydrologic Unit 13060008. Owner: Lincoln County Livestock Co.
 AQUIFER.--Yeso formation of Permian age.
 WELL CHARACTERISTICS.--Drilled water-table domestic and stock 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 14	47.56
Aug. 6	44.91

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, 199.95 ft below land-surface datum, July 2, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 7	194.56
July 2	199.95

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.--Monthly steel-tape measurements.
 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 removed June 30, 1986.
 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	100.43	NOV 21	100.96	DEC 23	101.03	JAN 22	101.07	FEB 21	101.91	MAR 19	101.98
APR 22	103.13	MAY 22	103.54	JUNE 19	104.33	JULY 22	105.10	AUG 20	105.54	SEP 21	105.90

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 6	166.72
July 1	170.17

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 6	21.80
July 10	31.58

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 6	84.08
July 1	83.94

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, 202.04 ft below land-surface datum, Sep. 3, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb.	not measured
Sep. 3	202.04

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 6	75.88
July 1	74.71

GROUND-WATER LEVELS

LUNA COUNTY
Mimbres Valley

315903107424501. (formerly 315905107425001) Local number, 27S.09W.01.431.
 LOCATION.--Lat 31°59'05", long 107°42'50", Hydrologic Unit 13030202. Owner: I. G. Burns.
 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 6	38.40
July 1	38.68

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 6	11.28
July 1	11.24

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	79.08	NOV 21	79.17	DEC 17	79.39	JAN 29	79.51	FEB 19	79.52	MAR 26	79.52
APR 23	81.29	MAY 21	79.77	JUNE 24	79.79	JULY 29	79.12	AUG 20	78.81	SEP 24	80.25

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 10	5.44
July 29	2.85

GROUND-WATER LEVELS

OTERO COUNTY
Tularosa-Alamogordo Area

330321106011101. (formerly 330324106011201) Local number, 14S.10E.31.144.
 LOCATION.--Lat 33°03'21", long 106°01'11", Hydrologic Unit 13050003. Owner: Luther Watson.
 AQUIFER.--Bolson deposits.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, depth 230 ft, diameter 17 in., casing 0-130 ft.
 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 28	87.49
July 24	90.36

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 13	90.08
Aug. 26	90.55

320138105063101. (formerly 320650105034801) Local number, 26S.18E.21.332.
 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 13	55.58
Aug. 26	59.56

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 13	50.67
Aug. 26	55.29

GROUND WATER LEVELS

QUAY COUNTY
House Area

343848103555801. Local number, 05N.28E.23.222232.

LOCATION.--Lat 34°38'48", long 103°55'59", 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, 74.67 ft below land-surface datum, Sep. 17, 1992;
lowest measured, 84.22r ft below land-surface datum, Feb. 18, 1972.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Mar. 18	74.76
Sep. 17	74.67

343855103482901. (formerly 343810103463001) Local number, 05N.30E.18.331.

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.

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Mar. 18	47.29
Sep. 17	43.37

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, 119.28 ft below land-surface datum, Sep. 13, 1990.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Mar. 18	118.78
Sep. 17	119.25

GROUND-WATER LEVELS

QUAY COUNTY
Lower Canadian

351040103433602. Local number, 11N.30E.14.144.
 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 27	41.42
July 30	59.74

QUAY COUNTY
Northern High Plains

353239103111301. Local number, 15N.35E.11.22111.
 LOCATION.--Lat 35°32'39", long 103°11'13", Hydrologic Unit 11080006. Owner: J. L. Smith.
 AQUIFER.--Alluvium.
 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, 89.59 ft below land-surface datum, July 12, 1989;
 lowest measured, 114.67 ft below land-surface datum, Feb. 5, 1974.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 27	92.08
July 30	90.57

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 27	162.33
Apr. 15	164.36

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 1991 TO SEPTEMBER 1992
 DAILY HIGHEST VALUES, FROM RECORDER GRAPH

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	83.64	83.60	83.54	83.40	83.25	83.20	83.23	83.09	83.06	83.15	---	---
10	83.66	83.66	83.50	83.40	83.26	83.20	83.21	83.22	83.07	83.14	---	---
15	83.65	83.65	83.52	83.40	83.25	83.20	83.22	83.09	83.06	83.16	---	---
20	83.63	83.61	83.44	83.42	83.22	83.20	83.22	83.20	83.20	83.18	---	83.34
25	83.66	83.58	83.40	83.40	83.24	83.25	83.21	83.23	83.19	83.20	---	83.33
EOB	83.66	83.59	83.40	83.28	83.20	83.20	83.08	83.09	83.13	83.21	---	83.36

WTR YEAR 1992 HIGHEST 83.06 JUN 1, 1992 LOWEST 87.33 OCT 29, 1991

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 7	50.22
Aug. 20	50.59

340753103083101. Local number, 02S.36E.14.311.

LOCATION.--Lat 34°07'53", long 103°08'31", Hydrologic Unit 12050001. Owner: Glen McAfee.

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 7	69.30
Aug. 24	74.16

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.--Periodic steel-tape measurements.

DATUM.--Elevation of land-surface datum is 3,982 ft above National Geodetic Vertical Datum of 1929.

Measuring point: Top of casing, at land-surface datum.

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, 109.56 ft below land-surface datum, Aug. 20, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
June 2	103.78
Aug. 20	109.56

Causey-Lingo Area

334700103030601. (formerly 335655103032001) Local number, 06S.38E.21.233.

LOCATION.--Lat 33°47'00", long 103°03'11", Hydrologic Unit 12050001. Owner: C. C. Harvey.

AQUIFER.--Undifferentiated Cretaceous rocks.

WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 140 ft, cased to 140 ft, casing 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 7	95.50
Aug. 20	99.57

GROUND-WATER LEVELS

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 3	23.13
Aug. 11	20.98

SANTA FE COUNTY
Estancia Valley

350534106024801. (formerly 350525106025001) Local number, 10N.08E.13.133.
 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.--"p" indicates pumping water level.
 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, 181.55p ft below land-surface datum, Aug. 4, 1969.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Mar. 12	139.07
July 27	152.45

350344106004601. (formerly 350340106005001) Local number, 10N.09E.29.133.
 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Mar. 19	112.41
July 27	not measured

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, 131.46 ft below land-surface datum, July 27, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Mar. 19	130.95
July 27	131.46

GROUND-WATER LEVELS

SANTA FE COUNTY
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, 262.91 ft below land-surface datum, Aug. 31, 1990 and Aug. 11, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 25	262.75
Aug. 11	262.91

353516106035801. Local number, 16N.08E.26.32112.

LOCATION.--Lat 35°35'16", long 106°03'58", Hydrologic Unit 13020201. Owner: State Highway Dept.

AQUIFER.--Tesuque Formation of Santa Fe Group.

WELL CHARACTERISTICS.--Drilled water-table unused irrigation well, diameter 10 in., depth 160 ft, cased to 160 ft, perforated 125-160 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

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.

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, Feb. 26, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 26	129.96
June 19	129.05

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, 228.62 ft below land-surface datum, Aug. 30, 1991.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 27	227.64
Aug. 11	226.77

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, 227.80 ft below land-surface datum, Aug. 11, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 25	222.22
Aug. 11	227.80

GROUND-WATER LEVELS

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 27	49.73
July 27	48.84

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 27	32.23
July 27	21.97

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 27	22.46
July 28	16.79

GROUND-WATER LEVELS

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, 66.52 ft below land-surface datum, Jan. 21, 1985;
 lowest measured, 77.33 ft below land-surface datum, Aug. 9, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 26	70.70
Aug. 12	70.39

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.
 PERIOD OF RECORD.--June 1955 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 186.79 ft below land-surface datum, Mar. 3, 1989;
 lowest measured, 213.53 ft below land-surface datum, Aug. 10, 1965.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 26	187.22
Aug. 12	186.97

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.
 WELL CHARACTERISTICS.--Drilled water-table domestic and stock well, diameter 6 in., depth unknown.
 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, 68.97 ft below land-surface datum, Aug. 12, 1992;
 lowest measured, 84.78 ft below land-surface datum, Jan. 27, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 26	not measured
Aug. 12	68.97

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Mar. 12	82.09
July 27	90.01

GROUND-WATER LEVELS

TORRANCE COUNTY
Estancia Valley

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 5	126.65
July 27	126.74

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Mar. 12	78.30
July 27	84.64

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, 28.25 ft below land-surface datum, July 19, 1979.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Mar. 12	15.54
July 27	19.84

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.
 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Mar. 12	51.50
July 27	57.75

GROUND-WATER LEVELS

TORRANCE COUNTY
Estancia Valley

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, 90.46 ft below land-surface datum, July 27, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
May 29	87.27
July 27	90.46

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, 158.58 ft below land-surface datum, Aug. 19, 1987.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 27	149.46
July 27	149.59

361847103064701. (formerly 361910103170501) Local number, 24N.36E.17.244.

LOCATION.--Lat 36°18'47", long 103°06'47", Hydrologic Unit 11090103. Owner: Glen Burrows.

AQUIFER.--Ogallala formation.

WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 20 in., 0-61 ft, 16 in., 61-255 ft, depth 255 ft.

INSTRUMENTATION.--Periodic steel-tape measurements.

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.--May 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 81.38 ft below land-surface datum, May 8, 1968;
lowest measured, 95.83 ft below land-surface datum, July 30, 1992.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 27	95.35
July 30	95.83

362540103095001. Local number, 25N.35E.02.441.

LOCATION.--Lat 36°25'40", long 103°10'02", Hydrologic Unit 11090103. Owner: Bill Winchester.

AQUIFER.--Ogallala 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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 27	93.76
July 29	94.36

GROUND-WATER LEVELS

UNION COUNTY
Clayton Area

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, 93.92 ft below land-surface datum, Feb. 20, 1968.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Jan. 27	88.77
July 29	91.71

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 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL
Feb. 10	34.24
July 29	34.00

QUALITY OF GROUND WATER

EXPLANATION OF GEOLOGIC UNIT (AQUIFER) CODES (LISTED FROM YOUNGEST TO OLDEST AGE) U-UPPER, M-MIDDLE, L-LOWER: 110 AVMB-Cenozoic, Quaternary, Alluvium, Bolson Deposits and other Surface Deposits; 112 SNTF-Cenozoic, Quaternary, Pleistocene, Santa Fe Group; 210-MNCS-Mesozoic, Cretaceous, Mancos Shale; 221 MRSN-Mesozoic, Upper Jurassic, Morrison Formation; 325 MDER-Paleozoic, Middle Pennsylvanian, Des Moinesian, Madera Limestone; 325 MDERU-Paleozoic, Middle Pennsylvanian; Des Moinesian, Madera Limestone, Upper Arkosic Limestone Member

REMARKS.--Ground Water sites in this table are segregated by county which appear alphabetically. The sites are then listed in ascending local identifiers that are based on the system of public land surveys except on Indian reservations and land grants. The identifiers are locations of the ground-water site in terms of township, range, section, and tract within a section, in that order.

BERNALILLO COUNTY

LOCAL IDENT- IFIER	STATION	NUMBER	COUNTY	SITE	DATE	TIME	GEO- LOGIC UNIT	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)
08N.07E.29.324A DOW	345319106135101	001		GW	10-18-91	1047	325MDER	24.32	100.00
		001		GW	11-19-91	1155	325MDER	--	100.00
		001		GW	12-16-91	1018	325MDER	21.42	100.00
		001		GW	01-16-92	1242	325MDER	20.19	100.00
		001		GW	02-12-92	1650	325MDER	19.19	100.00
		001		GW	03-13-92	0856	325MDER	19.16	100.00
		001		GW	04-22-92	0832	325MDER	19.04	100.00
		001		GW	05-26-92	1035	325MDER	19.73	100.00
		001		GW	06-16-92	0930	325MDER	19.42	100.00
		001		GW	07-22-92	0911	325MDER	20.47	100.00
		001		GW	08-19-92	1107	325MDER	19.79	100.00
		001		GW	09-22-92	0954	325MDER	20.84	100.00
		001		GW	10-18-91	0840	--	31.69	--
		001		GW	11-19-91	1011	--	31.29	--
		001		GW	12-13-91	1019	--	31.24	--
09N.05E.12.241 STANTON	350119106210901	001		GW	01-16-92	1044	--	31.15	--
		001		GW	02-19-92	1342	--	30.18	--
		001		GW	03-16-92	1051	--	30.07	--
		001		GW	04-23-92	0836	--	30.64	--
		001		GW	05-22-92	0931	--	31.09	--
		001		GW	06-15-92	1333	--	31.34	--
		001		GW	07-19-92	1136	--	31.61	--
		001		GW	08-19-92	0906	--	31.12	--
		001		GW	09-25-92	0928	--	31.69	--
		001		GW	10-23-91	1032	325MDER	432.35	680.00
		001		GW	11-21-91	0955	325MDER	424.44	680.00
		001		GW	12-16-91	1215	325MDER	412.62	680.00
		001		GW	01-17-92	1234	325MDER	425.70	680.00
		001		GW	02-12-92	1314	325MDER	416.70	680.00
		001		GW	03-16-92	1237	325MDER	415.74	680.00
		001		GW	04-23-92	1045	325MDER	--	680.00
09N.06E.19.413 CLAYTON	345918106202001	001		GW	05-14-92	1310	325MDER	410.45	680.00
		001		GW	06-16-92	1305	325MDER	--	680.00
		001		GW	07-23-92	0945	325MDER	412.68	680.00
		001		GW	08-20-92	1024	325MDER	--	680.00
		001		GW	09-22-92	1318	325MDER	411.73	680.00
		001		GW	10-18-91	1258	325MDERU	28.30	100.00
		001		GW	11-21-91	1402	325MDERU	29.29	100.00
		001		GW	12-18-91	1414	325MDERU	28.49	100.00
		001		GW	01-17-92	1350	325MDERU	27.93	100.00
		001		GW	02-12-92	1512	325MDERU	26.74	100.00
		001		GW	03-13-92	1245	325MDERU	21.29	100.00
		001		GW	04-22-92	1206	325MDERU	22.60	100.00
		001		GW	05-14-92	1044	325MDERU	24.16	100.00
		001		GW	06-17-92	0941	325MDERU	26.57	100.00
		001		GW	07-22-92	1245	325MDERU	28.83	100.00
		001		GW	08-19-92	1444	325MDERU	28.05	100.00
09N.06E.20.333 BUSTER	345858106194601	001		GW	09-24-92	1023	325MDERU	32.24	100.00
		001		GW	10-23-91	1340	325MDER	165.95	315.00
		001		GW	11-21-91	1155	325MDER	167.29	315.00
		001		GW	12-18-91	1252	325MDER	159.45	315.00
		001		GW	01-16-92	1416	325MDER	161.39	315.00
		001		GW	02-19-92	1506	325MDER	158.82	315.00
		001		GW	03-13-92	1051	325MDER	149.77	315.00
		001		GW	04-22-92	1025	325MDER	148.61	315.00
		001		GW	05-11-92	1319	325MDER	147.00	315.00
		001		GW	06-16-92	1125	325MDER	147.10	315.00
		001		GW	07-22-92	1118	325MDER	--	315.00
		001		GW	08-19-92	1255	325MDER	--	315.00
		001		GW	09-22-92	1139	325MDER	150.18	315.00
		001		GW	10-23-91	1340	325MDER	165.95	315.00
		001		GW	11-21-91	1155	325MDER	167.29	315.00
09N.06E.29.244 MOSIER	345833106185101	001		GW	12-18-91	1252	325MDER	159.45	315.00
		001		GW	01-16-92	1416	325MDER	161.39	315.00
		001		GW	02-19-92	1506	325MDER	158.82	315.00
		001		GW	03-13-92	1051	325MDER	149.77	315.00
		001		GW	04-22-92	1025	325MDER	148.61	315.00
		001		GW	05-11-92	1319	325MDER	147.00	315.00
		001		GW	06-16-92	1125	325MDER	147.10	315.00
		001		GW	07-22-92	1118	325MDER	--	315.00
		001		GW	08-19-92	1255	325MDER	--	315.00
		001		GW	09-22-92	1139	325MDER	150.18	315.00
		001		GW	10-23-91	1340	325MDER	165.95	315.00
		001		GW	11-21-91	1155	325MDER	167.29	315.00
		001		GW	12-18-91	1252	325MDER	159.45	315.00
		001		GW	01-16-92	1416	325MDER	161.39	315.00
		001		GW	02-19-92	1506	325MDER	158.82	315.00
		001		GW	03-13-92	1051	325MDER	149.77	315.00

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
BERNALILLO COUNTY -- Continued

LOCAL IDENT- IFIER	DATE	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN) (72004)	FLOW RATE, INSTAN- TANEOUS (G/M) (00059)	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)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)
08N.07E.29.324A DO	10-18-91	6790	15	3.0	830	7.3	23.0	13.5	--
	11-19-91	6790	12	3.5	900	7.2	3.0	11.5	--
	12-16-91	6790	15	3.0	880	7.3	8.0	11.5	--
	01-16-92	6790	15	3.0	900	7.3	5.5	11.0	--
	02-12-92	6790	12	6.0	900	7.4	8.5	12.0	--
	03-13-92	6790	10	4.0	850	7.3	9.5	11.5	--
	04-22-92	6790	15	2.0	810	7.4	12.0	12.0	--
	05-26-92	6790	11	5.0	770	7.4	11.0	12.5	--
	06-16-92	6790	12	2.5	720	7.3	--	13.0	--
	07-22-92	6790	10	2.0	680	7.4	--	15.0	--
	08-19-92	6790	11	2.0	760	7.3	24.0	14.5	--
	09-22-92	6790	11	3.0	700	7.3	17.0	13.5	--
	10-18-91	7060	5	15	1130	7.1	8.0	11.5	--
	11-19-91	7060	10	7.0	1110	7.1	1.0	13.5	--
09N.05E.12.241 STA	12-13-91	7060	8	12	1130	7.2	3.0	11.0	--
	01-16-92	7060	10	6.0	1200	7.1	-1.0	11.0	--
	02-19-92	7060	9	9.0	1220	7.2	8.5	11.5	--
	03-16-92	7060	9	6.0	1200	7.2	13.5	11.5	--
	04-23-92	7060	12	4.0	1130	7.2	12.5	11.0	--
	05-22-92	7060	6	12	1100	7.4	13.0	11.5	--
	06-15-92	7060	6	10	1130	7.3	--	11.5	--
	07-19-92	7060	8	7.5	1130	7.1	--	13.0	--
	08-19-92	7060	7	12	1090	7.1	20.0	11.0	--
	09-25-92	7060	7	7.0	1110	7.1	18.0	11.0	--
	10-23-91	7660	12	9.0	711	8.2	14.5	15.5	405
	11-21-91	7660	5	12	720	8.2	5.0	14.5	--
	12-16-91	7660	--	--	710	8.2	10.5	15.0	--
	01-17-92	7660	6	7.0	730	8.2	-5.0	13.0	--
	02-12-92	7660	12	12	747	8.3	6.5	14.5	--
09N.06E.19.413 CLA	03-16-92	7660	5	6.0	705	8.2	14.5	13.5	--
	04-23-92	7660	5	9.0	730	8.2	16.0	15.0	--
	05-14-92	7660	7	7.0	745	8.2	21.5	14.0	--
	06-16-92	7660	5	9.0	720	8.1	--	15.0	--
	07-23-92	7660	5	12	720	8.1	--	14.5	--
	08-20-92	7660	8	15	715	8.3	24.0	15.0	--
	09-22-92	7660	7	9.0	755	8.1	22.0	15.0	--
	10-18-91	7490	8	6.0	1080	7.1	--	11.0	--
	11-21-91	7490	9	7.0	1050	7.1	9.0	10.5	--
	12-18-91	7490	17	5.0	1010	7.2	-1.0	10.0	--
	01-17-92	7490	7	5.0	1010	7.2	-3.0	10.0	--
	02-12-92	7490	14	8.0	984	7.2	6.0	10.0	--
	03-13-92	7490	10	6.0	880	7.1	12.0	10.5	--
	04-22-92	7490	8	7.0	860	7.2	14.5	10.5	--
	05-14-92	7490	15	6.0	880	7.2	20.0	10.5	--
09N.06E.20.333 BUS	06-17-92	7490	7	10	870	7.2	--	10.5	--
	07-22-92	7490	9	7.0	970	7.2	--	11.0	--
	08-19-92	7490	12	9.3	890	7.3	27.5	10.5	--
	09-24-92	7490	9	10	900	7.1	18.0	10.0	--
	10-23-91	7420	12	12	1510	7.1	14.0	13.5	--
	11-21-91	7420	10	6.0	1450	7.3	9.0	13.5	--
	12-18-91	7420	8	12	1340	7.3	-1.5	13.0	--
	01-16-92	7420	8	12	2950	7.1	8.0	13.0	--
	02-19-92	7420	8	12	2600	7.2	6.5	13.0	--
	03-13-92	7420	10	11	2380	7.2	9.5	12.5	--
	04-22-92	7420	5	10	2000	7.2	14.5	13.5	--
	05-11-92	7420	6	12	1790	7.2	20.0	13.5	--
	06-16-92	7420	13	7.0	1610	7.2	--	13.5	--
	07-22-92	7420	5	12	1610	7.3	--	14.0	--
	08-19-92	7420	10	10	2350	7.2	26.0	13.5	--
09N.06E.29.244 MOS	09-22-92	7420	6	12	1530	7.2	19.0	13.5	--

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
BERNALILLO COUNTY -- Continued

LOCAL IDENT- IFIER	DATE	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
08N.07E.29.324A DO	10-18-91	--	27	--	<0.010	2.80	<0.010	--	<0.20
	11-19-91	--	27	2.08	0.020	2.10	0.020	--	<0.20
	12-16-91	--	37	--	<0.010	2.70	0.010	--	<0.20
	01-16-92	--	37	--	<0.010	3.90	<0.010	--	<0.20
	02-12-92	--	38	--	<0.010	5.80	0.010	--	<0.20
	03-13-92	--	45	--	<0.010	4.50	<0.010	--	<0.20
	04-22-92	--	47	--	<0.010	3.80	<0.010	--	<0.20
	05-26-92	--	32	--	<0.010	2.10	<0.010	--	0.30
	06-16-92	--	29	--	<0.010	1.70	0.010	--	<0.20
	07-22-92	--	18	--	<0.010	0.680	0.030	--	<0.20
	08-19-92	--	25	--	<0.010	2.30	<0.010	--	<0.20
	09-22-92	--	18	--	<0.010	0.790	0.020	--	<0.20
	10-18-91	--	150	--	<0.010	5.10	<0.010	--	<0.20
	11-19-91	--	140	--	<0.010	4.90	0.010	--	<0.20
	12-13-91	--	160	--	<0.010	5.00	<0.010	--	<0.20
09N.05E.12.241 STA	01-16-92	--	170	--	<0.010	6.30	<0.010	--	<0.20
	02-19-92	--	170	9.98	0.020	10.0	0.060	0.14	0.20
	03-16-92	--	160	--	<0.010	6.40	<0.010	--	<0.20
	04-23-92	--	170	3.76	0.040	3.80	0.050	--	<0.20
	05-22-92	--	150	--	<0.010	3.80	<0.010	--	0.30
	06-15-92	--	150	--	<0.010	4.10	<0.010	--	<0.20
	07-19-92	--	150	--	<0.010	3.80	0.040	--	<0.20
	08-19-92	--	140	--	<0.010	3.80	<0.010	--	<0.20
	09-25-92	--	150	--	<0.010	3.90	<0.010	--	<0.20
	10-23-91	332	30	--	0.020	<0.050	0.070	--	<0.20
	11-21-91	--	32	--	<0.010	<0.050	0.060	--	<0.20
	12-16-91	--	34	--	0.020	<0.050	0.060	--	<0.20
	01-17-92	--	34	--	<0.010	<0.050	0.050	--	<0.20
	02-12-92	--	35	--	<0.010	<0.050	0.030	--	<0.20
	03-16-92	--	32	--	<0.010	<0.050	0.040	--	<0.20
	04-23-92	--	37	--	<0.010	<0.050	0.040	--	<0.20
09N.06E.19.413 CLA	05-14-92	--	38	--	0.010	<0.050	<0.010	--	<0.20
	06-16-92	--	29	--	<0.010	<0.050	0.070	--	<0.20
	07-23-92	--	36	--	<0.010	0.091	0.030	--	<0.20
	08-20-92	--	36	--	<0.010	<0.050	0.040	--	<0.20
	09-22-92	--	41	--	<0.010	0.055	<0.010	--	<0.20
	10-18-91	--	140	--	<0.010	7.40	<0.010	--	0.40
	11-21-91	--	130	--	<0.010	7.10	0.020	0.18	0.20
	12-18-91	--	130	--	<0.010	5.70	<0.010	--	<0.20
	01-17-92	--	120	--	<0.010	5.80	<0.010	--	0.20
	02-12-92	--	97	--	<0.010	2.20	<0.010	--	<0.20
	03-13-92	--	93	--	<0.010	4.00	<0.010	--	<0.20
	04-22-92	--	80	--	<0.010	2.50	0.020	--	<0.20
	05-14-92	--	86	--	<0.010	3.00	<0.010	--	<0.20
	06-17-92	--	91	--	<0.010	3.10	0.030	--	<0.20
	07-22-92	--	120	--	<0.010	5.00	0.040	--	<0.20
	08-19-92	--	93	--	<0.010	3.30	0.010	--	<0.20
09N.06E.20.333 BUS	09-24-92	--	100	--	<0.010	4.10	0.010	--	<0.20
	10-23-91	--	230	0.710	0.020	0.730	0.020	0.28	0.30
	11-21-91	--	180	--	<0.010	0.560	0.020	0.28	0.30
	12-18-91	--	140	--	<0.010	0.680	<0.010	--	<0.20
	01-16-92	--	570	--	<0.010	2.70	0.020	0.78	0.80
	02-19-92	--	450	--	<0.010	4.90	0.020	0.78	0.80
	03-13-92	--	300	--	<0.010	5.50	<0.010	--	0.60
	04-22-92	--	290	--	<0.010	4.30	0.020	0.58	0.60
	05-11-92	--	240	--	<0.010	3.70	0.060	0.34	0.40
	06-16-92	--	230	--	<0.010	3.40	0.050	0.35	0.40
	07-22-92	--	220	--	<0.010	3.40	0.030	0.27	0.30
	08-19-92	--	210	--	<0.010	7.20	0.030	0.57	0.60
	09-22-92	--	220	--	<0.010	3.20	0.020	0.28	0.30
09N.06E.29.244 MOS	10-23-91	--	230	0.710	0.020	0.730	0.020	0.28	0.30
	11-21-91	--	180	--	<0.010	0.560	0.020	0.28	0.30
	12-18-91	--	140	--	<0.010	0.680	<0.010	--	<0.20
	01-16-92	--	570	--	<0.010	2.70	0.020	0.78	0.80
	02-19-92	--	450	--	<0.010	4.90	0.020	0.78	0.80
	03-13-92	--	300	--	<0.010	5.50	<0.010	--	0.60
	04-22-92	--	290	--	<0.010	4.30	0.020	0.58	0.60
	05-11-92	--	240	--	<0.010	3.70	0.060	0.34	0.40
	06-16-92	--	230	--	<0.010	3.40	0.050	0.35	0.40
	07-22-92	--	220	--	<0.010	3.40	0.030	0.27	0.30
	08-19-92	--	210	--	<0.010	7.20	0.030	0.57	0.60
	09-22-92	--	220	--	<0.010	3.20	0.020	0.28	0.30

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
BERNALILLO COUNTY -- Continued

LOCAL IDENT- IFIER	DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
08N.07E.29.324A DO	10-18-91	--	--	0.030	0.030	2.6	0.06	60	<10
	11-19-91	--	--	0.060	0.040	2.2	0.06	40	40
	12-16-91	--	--	0.040	0.040	2.5	0.07	70	<10
	01-16-92	--	--	0.030	0.040	3.1	0.08	80	<10
	02-12-92	--	--	0.030	0.030	3.1	0.08	60	10
	03-13-92	--	--	0.040	0.030	2.7	0.08	60	<10
	04-22-92	--	--	0.050	0.020	2.8	0.07	50	<10
	05-26-92	2.4	--	0.030	0.050	2.4	0.06	40	20
	06-16-92	--	--	0.020	0.020	2.2	0.04	50	<10
	07-22-92	--	--	0.030	0.010	1.9	0.02	--	--
	08-19-92	--	--	0.040	<0.010	2.4	0.05	--	--
	09-22-92	--	--	0.030	0.030	2.2	0.04	--	--
	10-18-91	--	--	0.010	0.010	1.7	0.08	50	<10
	11-19-91	--	--	0.020	0.010	1.9	0.09	50	<10
	12-13-91	--	--	0.030	0.030	1.8	0.09	40	<10
09N.05E.12.241 STA	01-16-92	--	--	<0.010	<0.010	2.2	0.11	50	<10
	02-19-92	10	--	0.040	<0.010	2.1	0.13	40	30
	03-16-92	--	--	0.010	<0.010	2.1	0.09	40	<10
	04-23-92	--	--	0.020	<0.010	2.0	0.08	40	40
	05-22-92	4.1	--	0.020	0.020	2.0	0.09	50	70
	06-15-92	--	--	0.010	0.030	2.1	0.08	50	20
	07-19-92	--	--	0.010	<0.010	1.9	0.07	--	--
	08-19-92	--	--	0.020	<0.010	2.2	0.09	--	--
	09-25-92	--	--	<0.010	<0.010	2.3	0.09	--	--
	10-23-91	--	--	<0.010	<0.010	0.8	0.01	260	20
	11-21-91	--	--	<0.010	0.010	0.6	0.02	270	<10
	12-16-91	--	--	0.010	<0.010	0.5	0.01	280	<10
	01-17-92	--	--	<0.010	<0.010	0.5	0.01	270	<10
	02-12-92	--	--	<0.010	<0.010	1.1	0.02	270	<10
	03-16-92	--	--	<0.010	<0.010	0.3	0.01	260	<10
	04-23-92	--	--	0.010	<0.010	0.8	0.01	270	<10
09N.06E.19.413 CLA	05-14-92	--	--	0.010	0.030	0.4	0.03	270	20
	06-16-92	--	--	<0.010	<0.010	0.7	0.01	270	20
	07-23-92	--	--	<0.010	<0.010	0.5	0.01	--	--
	08-20-92	--	--	<0.010	<0.010	0.4	0.02	--	--
	09-22-92	--	--	<0.010	<0.010	0.9	0.02	--	--
	10-18-91	7.8	--	0.030	0.040	2.7	0.10	30	<10
	11-21-91	7.3	--	0.040	0.040	2.9	0.10	30	<10
	12-18-91	--	--	0.040	0.030	2.7	0.12	30	<10
	01-17-92	6.0	--	0.040	0.040	2.5	0.09	30	<10
	02-12-92	--	--	0.030	0.010	2.8	0.07	20	<10
	03-13-92	--	--	0.030	0.010	2.5	0.07	30	<10
	04-22-92	--	--	0.040	<0.010	2.5	0.06	30	<10
	05-14-92	--	--	0.040	0.040	2.9	0.07	30	<10
	06-17-92	--	--	0.030	<0.010	2.7	0.06	30	<10
	07-22-92	--	--	0.030	0.010	2.8	0.08	--	--
	08-19-92	--	--	0.040	0.020	2.7	0.08	--	--
09N.06E.20.333 BUS	09-24-92	--	--	0.030	0.030	2.8	0.09	--	--
	10-23-91	1.0	--	0.020	0.020	6.6	0.08	140	30
	11-21-91	0.86	--	<0.010	0.020	6.1	0.06	170	40
	12-18-91	--	--	<0.010	<0.010	5.0	0.06	180	40
	01-16-92	3.5	--	0.010	0.020	14	0.17	20	100
	02-19-92	5.7	--	0.060	0.030	14	0.17	30	40
	03-13-92	6.1	--	0.004	0.010	12	0.14	40	40
	04-22-92	4.9	--	0.040	0.010	9.8	0.13	70	40
	05-11-92	4.1	--	0.030	<0.010	8.2	0.13	90	20
	06-16-92	3.8	--	0.020	<0.010	6.7	0.10	100	40
	07-22-92	3.7	--	0.020	<0.010	6.6	0.10	--	--
	08-19-92	7.8	--	0.040	0.030	12	0.17	--	--
	09-22-92	3.5	--	0.020	0.020	5.4	0.11	--	--
09N.06E.29.244 MOS	10-23-91	1.0	--	0.020	0.020	6.6	0.08	140	30
	11-21-91	0.86	--	<0.010	0.020	6.1	0.06	170	40
	12-18-91	--	--	<0.010	<0.010	5.0	0.06	180	40
	01-16-92	3.5	--	0.010	0.020	14	0.17	20	100
	02-19-92	5.7	--	0.060	0.030	14	0.17	30	40
	03-13-92	6.1	--	0.004	0.010	12	0.14	40	40
	04-22-92	4.9	--	0.040	0.010	9.8	0.13	70	40
	05-11-92	4.1	--	0.030	<0.010	8.2	0.13	90	20
	06-16-92	3.8	--	0.020	<0.010	6.7	0.10	100	40
	07-22-92	3.7	--	0.020	<0.010	6.6	0.10	--	--
	08-19-92	7.8	--	0.040	0.030	12	0.17	--	--
	09-22-92	3.5	--	0.020	0.020	5.4	0.11	--	--

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

BERNALILLO COUNTY -- Continued

LOCAL IDENT- IFIER	STATION	NUMBER	COUNTY	SITE	DATE	TIME	GEO- LOGIC UNIT	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)
10N.04E.26.332 WL NO.3	350337106294003	001	GW	05-20-92	0755	--	--	9.53	11.90
10N.04E.26.341 WL NO.5	350338106292801	001	GW	05-20-92	1300	--	--	--	11.50
10N.04E.26.431 WL NO.11	350337106291203	001	GW	05-20-92	1410	--	--	--	7.50
10N.05E.02.233A SOUTHWICK	350721106222101	001	GW	10-22-91	0753	--	--	110.21	200.00
		001	GW	11-14-91	0755	--	--	117.38	200.00
		001	GW	12-17-91	0737	--	--	125.79	200.00
		001	GW	01-17-92	0806	--	--	129.10	200.00
		001	GW	02-19-92	0742	--	--	136.20	200.00
		001	GW	03-12-92	0755	--	--	147.00	200.00
		001	GW	04-21-92	0730	--	--	135.22	200.00
		001	GW	05-22-92	0727	--	--	118.17	200.00
		001	GW	06-15-92	1129	--	--	105.20	200.00
		001	GW	07-21-92	0731	--	--	90.70	200.00
		001	GW	08-18-92	0920	--	--	78.40	200.00
		001	GW	09-24-92	0758	--	--	63.90	200.00
10N.05E.11.324 CUSHING	350615106223301	001	GW	10-17-91	1335	210MNCS	--	13.99	80.00
		001	GW	11-13-91	1323	210MNCS	--	13.80	80.00
		001	GW	12-10-91	1355	210MNCS	--	13.12	80.00
		001	GW	01-15-92	1525	210MNCS	--	12.29	80.00
		001	GW	02-11-92	1644	210MNCS	--	11.67	80.00
		001	GW	03-11-92	1248	210MNCS	--	12.00	80.00
		001	GW	04-21-92	1210	210MNCS	--	12.73	80.00
		001	GW	05-12-92	1500	210MNCS	--	12.90	80.00
		001	GW	06-10-92	1411	210MNCS	--	13.42	80.00
		001	GW	07-21-92	1145	210MNCS	--	14.87	80.00
		001	GW	08-24-92	1344	210MNCS	--	14.70	80.00
10N.05E.14.312 AESCHLIMEN	350531106224301	001	GW	09-17-92	1320	210MNCS	--	--	80.00
		001	GW	10-25-91	1025	--	--	42.16	160.00
		001	GW	11-14-91	1220	--	--	42.43	160.00
		001	GW	12-17-91	1430	--	--	39.51	160.00
		001	GW	01-21-92	1414	--	--	38.46	160.00
		001	GW	02-20-92	1625	--	--	38.49	160.00
		001	GW	03-11-92	1114	--	--	39.00	160.00
		001	GW	04-28-92	1201	--	--	41.02	160.00
		001	GW	05-21-92	1110	--	--	--	160.00
		001	GW	06-12-92	1309	--	--	41.14	160.00
		001	GW	07-21-92	1332	--	--	42.51	160.00
		001	GW	08-17-92	1310	--	--	42.00	160.00
		001	GW	09-15-92	1352	--	--	43.36	160.00
10N.05E.14.413A CZERNY	350522106222501	001	GW	10-21-91	1057	--	--	24.99	73.00
		001	GW	11-20-91	1244	--	--	26.34	73.00
		001	GW	12-17-91	1145	--	--	26.35	73.00
		001	GW	01-21-92	1357	--	--	25.75	73.00
		001	GW	02-13-92	1513	--	--	26.39	73.00
		001	GW	03-17-92	0842	--	--	25.07	73.00
		001	GW	04-24-92	1008	--	--	25.27	73.00
		001	GW	05-13-92	1304	--	--	25.39	73.00
		001	GW	06-12-92	1123	--	--	25.05	73.00
		001	GW	07-19-92	1338	--	--	27.24	73.00
		001	GW	08-18-92	1320	--	--	26.49	73.00
		001	GW	09-17-92	1204	--	--	27.54	73.00
10N.05E.19.322 LEIB	350423106263301	001	GW	10-21-91	1224	110AVMB	--	--	146.00
		001	GW	11-18-91	1115	110AVMB	--	42.87	146.00
		001	GW	12-13-91	1220	110AVMB	--	42.80	146.00

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

BERNALILLO COUNTY -- Continued

LOCAL IDENT- IFIER	DATE	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN) (72004)	FLOW RATE, INSTAN- TANEOUS (G/M) (00059)	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)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
10N.04E.26.332 WL	05-20-92	--	20	--	980	7.5	--	16.0	390
10N.04E.26.341 WL	05-20-92	--	--	--	980	7.4	--	16.0	420
10N.04E.26.431 WL	05-20-92	--	15	--	1080	7.2	--	15.5	450
10N.05E.02.233A SO	10-22-91	6765	5	9.0	730	9.6	5.5	14.5	--
	11-14-91	6765	5	7.0	730	9.4	7.5	14.5	--
	12-17-91	6765	5	8.0	710	9.4	0.5	13.5	--
	01-17-92	6765	8	7.0	720	9.5	-3.0	13.5	--
	02-19-92	6765	6	10	750	9.5	-0.5	13.5	--
	03-12-92	6765	6	5.0	730	9.6	4.5	13.5	--
	04-21-92	6765	5	10	690	9.5	3.5	13.5	--
	05-22-92	6765	6	10	780	9.5	10.0	14.0	--
	06-15-92	6765	6	8.0	730	9.4	--	14.5	--
	07-21-92	6765	5	6.0	710	9.4	--	13.5	--
	08-18-92	6765	5	10	720	9.2	19.0	14.5	--
	09-24-92	6765	7	7.0	730	9.2	14.5	14.0	--
10N.05E.11.324 CUS	10-17-91	6580	5	3.0	690	7.3	25.0	15.0	--
	11-13-91	6580	6	4.0	750	7.3	14.0	14.0	--
	12-10-91	6580	6	3.0	710	7.4	13.5	12.0	--
	01-15-92	6580	--	3.0	800	7.3	-5.0	10.0	--
	02-11-92	6580	11	6.0	804	7.4	7.0	12.5	--
	03-11-92	6580	5	4.0	760	7.4	10.5	11.0	--
	04-21-92	6580	10	4.0	730	7.4	17.5	13.5	--
	05-12-92	6580	5	3.0	720	7.3	24.5	14.0	--
	06-10-92	6580	8	3.0	770	7.3	--	14.5	--
	07-21-92	6580	8	4.0	710	7.3	--	16.5	--
	08-24-92	6580	5	2.0	730	7.2	19.0	19.5	--
	09-17-92	6580	5	3.0	710	7.3	27.0	16.0	--
10N.05E.14.312 AES	10-25-91	6540	20	4.0	1040	7.2	16.5	14.5	--
	11-14-91	6540	10	7.0	1030	7.2	--	14.0	--
	12-17-91	6540	--	--	990	7.3	7.0	13.5	--
	01-21-92	6540	17	4.0	1010	7.3	4.0	12.5	--
	02-20-92	6540	12	5.0	1020	7.2	12.5	13.5	--
	03-11-92	6540	10	5.0	1030	7.2	9.5	14.0	--
	04-28-92	6540	12	3.5	1090	7.3	25.5	14.5	--
	05-21-92	6540	10	5.0	1030	7.4	--	14.0	--
	06-12-92	6540	12	4.0	1060	7.2	--	14.5	--
	07-21-92	6540	11	7.0	1000	7.1	--	15.0	--
	08-17-92	6540	9	5.5	1020	7.2	30.0	14.5	--
	09-15-92	6540	12	4.0	990	7.2	21.5	14.5	--
10N.05E.14.413A CZ	10-21-91	6400	17	3.0	1370	7.2	18.0	13.5	--
	11-20-91	6400	11	3.0	1400	7.3	6.5	11.5	--
	12-17-91	6400	15	4.0	1350	7.3	7.5	9.0	--
	01-21-92	6400	12	9.0	1420	7.3	3.5	13.0	--
	02-13-92	6400	12	10	1560	7.3	8.5	12.0	--
	03-17-92	6400	9	4.0	1400	7.3	12.0	11.5	--
	04-24-92	6400	8	7.0	1490	7.3	16.5	12.5	--
	05-13-92	6400	--	7.5	1410	7.4	24.0	13.5	--
	06-12-92	6400	22	1.5	1480	7.4	--	14.0	--
	07-19-92	6400	20	3.0	1500	7.3	--	16.0	--
	08-18-92	6400	20	1.0	1480	7.2	25.0	16.0	--
	09-17-92	6400	15	1.5	1510	7.3	23.0	14.5	--
10N.05E.19.322 LEI	10-21-91	6255	10	3.5	580	7.6	21.0	17.0	--
	11-18-91	6255	16	4.5	560	7.6	6.0	17.0	--
	12-13-91	6255	9	9.5	560	7.6	7.5	16.5	--

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

BERNALILLO COUNTY -- Continued

LOCAL IDENT- IFIER	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 AS (00453)	CAR- BONATE WATER DIS IT FIELD CO3 AS (00452)	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
10N.04E.26.332 WL	05-20-92	110	27	52	1	5.0	--	--	--
10N.04E.26.341 WL	05-20-92	120	28	53	1	4.2	--	--	--
10N.04E.26.431 WL	05-20-92	130	30	55	1	4.1	--	--	--
10N.05E.02.233A SO	10-22-91	--	--	--	--	--	--	--	316
	11-14-91	--	--	--	--	--	--	--	313
	12-17-91	--	--	--	--	--	278	50	312
	01-17-92	--	--	--	--	--	288	52	322
	02-19-92	--	--	--	--	--	281	50	314
	03-12-92	--	--	--	--	--	--	--	312
	04-21-92	--	--	--	--	--	--	--	316
	05-22-92	--	--	--	--	--	--	--	316
	06-15-92	--	--	--	--	--	--	--	316
	07-21-92	--	--	--	--	--	--	--	320
	08-18-92	--	--	--	--	--	--	--	318
	09-24-92	--	--	--	--	--	--	--	320
10N.05E.11.324 CUS	10-17-91	--	--	--	--	--	--	--	--
	11-13-91	--	--	--	--	--	--	--	333
	12-10-91	--	--	--	--	--	--	--	--
	01-15-92	--	--	--	--	--	--	--	--
	02-11-92	--	--	--	--	--	--	--	--
	03-11-92	--	--	--	--	--	--	--	--
	04-21-92	--	--	--	--	--	--	--	--
	05-12-92	--	--	--	--	--	--	--	--
	06-10-92	--	--	--	--	--	--	--	--
	07-21-92	--	--	--	--	--	--	--	--
	08-24-92	--	--	--	--	--	--	--	--
10N.05E.14.312 AES	09-17-92	--	--	--	--	--	--	--	--
	10-25-91	--	--	--	--	--	--	--	--
	11-14-91	--	--	--	--	--	--	--	--
	12-17-91	--	--	--	--	--	--	--	--
	01-21-92	--	--	--	--	--	--	--	--
	02-20-92	--	--	--	--	--	--	--	--
	03-11-92	--	--	--	--	--	--	--	--
	04-28-92	--	--	--	--	--	--	--	--
	05-21-92	--	--	--	--	--	--	--	--
	06-12-92	--	--	--	--	--	--	--	--
	07-21-92	--	--	--	--	--	--	--	--
	08-17-92	--	--	--	--	--	--	--	--
	09-15-92	--	--	--	--	--	--	--	--
10N.05E.14.413A CZ	10-21-91	--	--	--	--	--	--	--	--
	11-20-91	--	--	--	--	--	--	--	--
	12-17-91	--	--	--	--	--	--	--	--
	01-21-92	--	--	--	--	--	--	--	--
	02-13-92	--	--	--	--	--	--	--	--
	03-17-92	--	--	--	--	--	--	--	--
	04-24-92	--	--	--	--	--	--	--	--
	05-13-92	--	--	--	--	--	--	--	--
	06-12-92	--	--	--	--	--	--	--	--
	07-19-92	--	--	--	--	--	--	--	--
	08-18-92	--	--	--	--	--	--	--	--
	09-17-92	--	--	--	--	--	--	--	--
10N.05E.19.322 LEI	10-21-91	--	--	--	--	--	--	--	--
	11-18-91	--	--	--	--	--	--	--	--
	12-13-91	--	--	--	--	--	--	--	--

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

BERNALILLO COUNTY -- Continued

LOCAL IDENT- I- FIER	DATE	ALKA- LITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	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 CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)
10N.04E.26.332 WL	05-20-92	--	213	130	120	0.60	19	594	0.630
10N.04E.26.341 WL	05-20-92	--	221	140	120	0.60	17	618	--
10N.04E.26.431 WL	05-20-92	--	244	150	130	0.70	19	668	--
10N.05E.02.233A SO	10-22-91	--	--	--	16	--	--	--	0.080
	11-14-91	--	--	--	19	--	--	--	0.210
	12-17-91	311	--	--	21	--	--	--	0.270
	01-17-92	--	--	--	24	--	--	--	0.300
	02-19-92	--	--	--	29	--	--	--	0.240
	03-12-92	--	--	--	28	--	--	--	--
	04-21-92	--	--	--	24	--	--	--	--
	05-22-92	--	--	--	29	--	--	--	0.240
	06-15-92	--	--	--	20	--	--	--	--
	07-21-92	--	--	--	20	--	--	--	0.270
	08-18-92	--	--	--	19	--	--	--	--
	09-24-92	--	--	--	19	--	--	--	0.230
10N.05E.11.324 CUS	10-17-91	--	--	--	12	--	--	--	--
	11-13-91	--	--	--	15	--	--	--	--
	12-10-91	--	--	--	16	--	--	--	--
	01-15-92	--	--	--	16	--	--	--	--
	02-11-92	--	--	--	11	--	--	--	2.16
	03-11-92	--	--	--	14	--	--	--	2.06
	04-21-92	--	--	--	15	--	--	--	1.07
	05-12-92	--	--	--	15	--	--	--	0.940
	06-10-92	--	--	--	17	--	--	--	0.930
	07-21-92	--	--	--	19	--	--	--	--
	08-24-92	--	--	--	17	--	--	--	--
	09-17-92	--	--	--	15	--	--	--	--
10N.05E.14.312 AES	10-25-91	--	--	--	81	--	--	--	0.046
	11-14-91	--	--	--	82	--	--	--	--
	12-17-91	--	--	--	63	--	--	--	--
	01-21-92	--	--	--	76	--	--	--	--
	02-20-92	--	--	--	78	--	--	--	--
	03-11-92	--	--	--	80	--	--	--	--
	04-28-92	--	--	--	78	--	--	--	--
	05-21-92	--	--	--	--	--	--	--	--
	06-12-92	--	--	--	81	--	--	--	--
	07-21-92	--	--	--	76	--	--	--	--
	08-17-92	--	--	--	75	--	--	--	--
	09-15-92	--	--	--	73	--	--	--	--
10N.05E.14.413A CZ	10-21-91	--	--	--	190	--	--	--	--
	11-20-91	--	--	--	200	--	--	--	--
	12-17-91	--	--	--	170	--	--	--	--
	01-21-92	--	--	--	200	--	--	--	--
	02-13-92	--	--	--	200	--	--	--	--
	03-17-92	--	--	--	200	--	--	--	--
	04-24-92	--	--	--	200	--	--	--	--
	05-13-92	--	--	--	190	--	--	--	--
	06-12-92	--	--	--	190	--	--	--	--
	07-19-92	--	--	--	190	--	--	--	--
	08-18-92	--	--	--	210	--	--	--	--
	09-17-92	--	--	--	190	--	--	--	--
10N.05E.19.322 LEI	10-21-91	--	--	--	10	--	--	--	--
	11-18-91	--	--	--	11	--	--	--	--
	12-13-91	--	--	--	11	--	--	--	--

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
BERNALILLO COUNTY -- Continued

LOCAL IDENT- I- FIER	DATE	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 DIS- SOLVED (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
10N.04E.26.332 WL	05-20-92	0.620	0.020	0.020	0.650	0.640	0.060	--	<0.20
10N.04E.26.341 WL	05-20-92	--	<0.010	<0.010	0.640	0.660	<0.010	<0.010	<0.20
10N.04E.26.431 WL	05-20-92	--	<0.010	<0.010	0.610	0.630	<0.010	<0.010	<0.20
10N.05E.02.233A SO	10-22-91	--	0.050	--	0.130	--	<0.010	--	<0.20
	11-14-91	--	0.030	--	0.240	--	<0.010	--	<0.20
	12-17-91	--	0.030	--	0.300	--	<0.010	--	<0.20
	01-17-92	--	0.020	--	0.320	--	<0.010	--	<0.20
	02-19-92	--	0.020	--	0.260	--	<0.010	--	<0.20
	03-12-92	--	<0.010	--	0.300	--	<0.010	--	<0.20
	04-21-92	--	<0.010	--	0.260	--	<0.010	--	<0.20
	05-22-92	--	0.010	--	0.250	--	<0.010	--	<0.20
	06-15-92	--	<0.010	--	0.540	--	0.020	--	<0.20
	07-21-92	--	0.020	--	0.290	--	0.030	--	<0.20
	08-18-92	--	<0.010	--	0.600	--	<0.010	--	<0.20
	09-24-92	--	0.020	--	0.250	--	<0.010	--	<0.20
10N.05E.11.324 CUS	10-17-91	--	<0.010	--	1.70	--	<0.010	--	<0.20
	11-13-91	--	<0.010	--	1.80	--	0.010	--	<0.20
	12-10-91	--	<0.010	--	1.30	--	<0.010	--	<0.20
	01-15-92	--	<0.010	--	2.70	--	<0.010	--	<0.20
	02-11-92	--	0.040	--	2.20	--	<0.010	--	<0.20
	03-11-92	--	0.040	--	2.10	--	<0.010	--	<0.20
	04-21-92	--	0.030	--	1.10	--	0.020	--	<0.20
	05-12-92	--	0.030	--	0.970	--	0.060	--	<0.20
	06-10-92	--	0.030	--	0.960	--	<0.010	--	<0.20
	07-21-92	--	<0.010	--	1.10	--	0.040	--	<0.20
	08-24-92	--	<0.010	--	0.750	--	0.020	--	<0.20
	09-17-92	--	<0.010	--	0.620	--	<0.010	--	<0.20
10N.05E.14.312 AES	10-25-91	--	0.010	--	0.056	--	0.010	--	<0.20
	11-14-91	--	<0.010	--	<0.050	--	<0.010	--	<0.20
	12-17-91	--	<0.010	--	0.053	--	<0.010	--	<0.20
	01-21-92	--	<0.010	--	<0.050	--	0.010	--	<0.20
	02-20-92	--	<0.010	--	<0.050	--	0.020	--	<0.20
	03-11-92	--	<0.010	--	0.060	--	<0.010	--	<0.20
	04-28-92	--	<0.010	--	0.190	--	0.010	--	<0.20
	05-21-92	--	<0.010	--	0.057	--	0.010	--	<0.20
	06-12-92	--	<0.010	--	0.059	--	<0.010	--	<0.20
	07-21-92	--	<0.010	--	<0.050	--	0.040	--	<0.20
	08-17-92	--	<0.010	--	<0.050	--	<0.010	--	<0.20
	09-15-92	--	<0.010	--	0.072	--	0.010	--	<0.20
10N.05E.14.413A CZ	10-21-91	--	<0.010	--	2.30	--	<0.010	--	<0.20
	11-20-91	--	<0.010	--	2.40	--	0.020	--	<0.20
	12-17-91	--	<0.010	--	2.40	--	<0.010	--	<0.20
	01-21-92	--	<0.010	--	2.60	--	<0.010	--	<0.20
	02-13-92	--	<0.010	--	2.70	--	0.020	--	<0.20
	03-17-92	--	<0.010	--	2.70	--	<0.010	--	<0.20
	04-24-92	--	<0.010	--	2.70	--	0.020	--	<0.20
	05-13-92	--	<0.010	--	2.70	--	0.090	--	<0.20
	06-12-92	--	<0.010	--	2.70	--	0.010	--	<0.20
	07-19-92	--	<0.010	--	2.60	--	0.040	--	<0.20
	08-18-92	--	<0.010	--	2.50	--	0.020	--	<0.20
	09-17-92	--	<0.010	--	2.50	--	<0.010	--	<0.20
10N.05E.19.322 LEI	10-21-91	--	<0.010	--	0.840	--	<0.010	--	<0.20
	11-18-91	--	<0.010	--	0.950	--	0.030	--	<0.20
	12-13-91	--	<0.010	--	0.720	--	<0.010	--	<0.20

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

BERNALILLO COUNTY -- Continued

LOCAL IDENT- IFIER	DATE	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	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)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)
10N.04E.26.332 WL	05-20-92	0.020	0.030	0.020	1.4	--	<1	70
10N.04E.26.341 WL	05-20-92	0.010	0.010	0.010	1.3	--	<1	60
10N.04E.26.431 WL	05-20-92	0.010	<0.010	<0.010	1.0	--	<1	100
10N.05E.02.233A SO	10-22-91	<0.010	<0.010	--	0.6	0.01	--	650
	11-14-91	<0.010	<0.010	--	0.4	0.02	--	640
	12-17-91	<0.010	<0.010	--	0.3	0.01	--	680
	01-17-92	0.010	0.010	--	0.4	0.02	--	670
	02-19-92	0.030	0.010	--	0.5	0.02	--	640
	03-12-92	<0.010	<0.010	--	0.2	0.02	--	650
	04-21-92	<0.010	<0.010	--	0.3	0.01	--	620
	05-22-92	<0.010	0.010	--	0.4	0.02	--	650
	06-15-92	<0.010	<0.010	--	0.2	0.01	--	650
	07-21-92	0.010	<0.010	--	0.2	0.01	--	--
	08-18-92	0.010	<0.010	--	0.2	0.02	--	--
	09-24-92	0.010	<0.010	--	0.2	0.02	--	--
10N.05E.11.324 CUS	10-17-91	0.030	0.050	--	0.6	0.03	--	40
	11-13-91	0.030	0.030	--	0.8	0.03	--	50
	12-10-91	0.050	0.040	--	0.8	0.03	--	40
	01-15-92	0.030	0.030	--	1.0	0.04	--	40
	02-11-92	0.030	0.020	--	0.7	0.04	--	40
	03-11-92	0.020	0.010	--	0.7	0.02	--	40
	04-21-92	0.010	<0.010	--	2.0	0.02	--	40
	05-12-92	0.020	<0.010	--	0.7	0.02	--	30
	06-10-92	0.010	<0.010	--	0.6	0.01	--	30
	07-21-92	0.020	<0.010	--	0.8	0.02	--	--
	08-24-92	0.020	0.020	--	0.7	0.03	--	--
	09-17-92	0.020	0.030	--	0.7	0.02	--	--
10N.05E.14.312 AES	10-25-91	0.010	0.020	--	1.9	0.04	--	40
	11-14-91	<0.010	<0.010	--	1.4	0.03	--	40
	12-17-91	0.010	<0.010	--	1.3	0.03	--	40
	01-21-92	<0.010	0.010	--	0.8	0.03	--	40
	02-20-92	0.040	0.020	--	1.3	0.03	--	40
	03-11-92	<0.010	<0.010	--	1.4	0.04	--	40
	04-28-92	0.010	<0.010	--	1.4	0.03	--	40
	05-21-92	<0.010	0.020	--	1.3	0.03	--	40
	06-12-92	<0.010	0.020	--	1.3	0.02	--	50
	07-21-92	<0.010	<0.010	--	1.2	0.03	--	--
	08-17-92	0.010	<0.010	--	1.4	0.04	--	--
	09-15-92	<0.010	<0.010	--	1.3	0.03	--	--
10N.05E.14.413A CZ	10-21-91	<0.010	<0.010	--	1.3	0.07	--	50
	11-20-91	0.010	<0.010	--	0.9	0.05	--	50
	12-17-91	<0.010	<0.010	--	0.9	0.07	--	50
	01-21-92	0.010	0.020	--	1.3	0.07	--	50
	02-13-92	<0.010	<0.010	--	1.4	0.07	--	50
	03-17-92	0.010	<0.010	--	0.8	0.07	--	40
	04-24-92	0.010	<0.010	--	1.0	0.07	--	50
	05-13-92	0.010	<0.010	--	1.0	0.08	--	50
	06-12-92	<0.010	0.010	--	1.0	0.05	--	50
	07-19-92	<0.010	<0.010	--	1.0	0.06	--	--
	08-18-92	0.010	<0.010	--	1.0	0.08	--	--
	09-17-92	<0.010	<0.010	--	1.3	0.07	--	--
10N.05E.19.322 LEI	10-21-91	<0.010	<0.010	--	1.0	0.02	--	30
	11-18-91	0.010	<0.010	--	0.5	0.02	--	30
	12-13-91	<0.010	<0.010	--	0.5	0.02	--	30

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

BERNALILLO COUNTY -- Continued

LOCAL IDENT- IFIER	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)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
10N.04E.26.332 WL	05-20-92	<1.0	<1	<1	6	<1	<0.1	<1	6
10N.04E.26.341 WL	05-20-92	<1.0	2	<1	11	<1	0.2	<1	<3
10N.04E.26.431 WL	05-20-92	<1.0	1	<1	4	<1	<0.1	<1	<3
10N.05E.02.233A SO	10-22-91	--	--	--	<10	--	--	--	--
	11-14-91	--	--	--	<10	--	--	--	--
	12-17-91	--	--	--	20	--	--	--	--
	01-17-92	--	--	--	<10	--	--	--	--
	02-19-92	--	--	--	10	--	--	--	--
	03-12-92	--	--	--	30	--	--	--	--
	04-21-92	--	--	--	20	--	--	--	--
	05-22-92	--	--	--	10	--	--	--	--
	06-15-92	--	--	--	<10	--	--	--	--
	07-21-92	--	--	--	--	--	--	--	--
	08-18-92	--	--	--	--	--	--	--	--
	09-24-92	--	--	--	--	--	--	--	--
10N.05E.11.324 CUS	10-17-91	--	--	--	<10	--	--	--	--
	11-13-91	--	--	--	<10	--	--	--	--
	12-10-91	--	--	--	<10	--	--	--	--
	01-15-92	--	--	--	10	--	--	--	--
	02-11-92	--	--	--	10	--	--	--	--
	03-11-92	--	--	--	20	--	--	--	--
	04-21-92	--	--	--	20	--	--	--	--
	05-12-92	--	--	--	<10	--	--	--	--
	06-10-92	--	--	--	20	--	--	--	--
	07-21-92	--	--	--	--	--	--	--	--
	08-24-92	--	--	--	--	--	--	--	--
	09-17-92	--	--	--	--	--	--	--	--
10N.05E.14.312 AES	10-25-91	--	--	--	140	--	--	--	--
	11-14-91	--	--	--	120	--	--	--	--
	12-17-91	--	--	--	130	--	--	--	--
	01-21-92	--	--	--	120	--	--	--	--
	02-20-92	--	--	--	110	--	--	--	--
	03-11-92	--	--	--	60	--	--	--	--
	04-28-92	--	--	--	70	--	--	--	--
	05-21-92	--	--	--	50	--	--	--	--
	06-12-92	--	--	--	90	--	--	--	--
	07-21-92	--	--	--	--	--	--	--	--
	08-17-92	--	--	--	--	--	--	--	--
	09-15-92	--	--	--	--	--	--	--	--
10N.05E.14.413A CZ	10-21-91	--	--	--	<10	--	--	--	--
	11-20-91	--	--	--	<10	--	--	--	--
	12-17-91	--	--	--	<10	--	--	--	--
	01-21-92	--	--	--	<10	--	--	--	--
	02-13-92	--	--	--	--	--	--	--	--
	03-17-92	--	--	--	<10	--	--	--	--
	04-24-92	--	--	--	10	--	--	--	--
	05-13-92	--	--	--	30	--	--	--	--
	06-12-92	--	--	--	<10	--	--	--	--
	07-19-92	--	--	--	--	--	--	--	--
	08-18-92	--	--	--	--	--	--	--	--
	09-17-92	--	--	--	--	--	--	--	--
10N.05E.19.322 LEI	10-21-91	--	--	--	<10	--	--	--	--
	11-18-91	--	--	--	10	--	--	--	--
	12-13-91	--	--	--	20	--	--	--	--

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

BERNALILLO COUNTY -- Continued

LOCAL IDENT- I- FIER	DATE	TIME	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)	TOLUENE TOTAL (UG/L) (34010)
10N.04E.26.332 WL NO.3	05-20-92	0755	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
10N.04E.26.341 WL NO.5	05-20-92	1300	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
10N.04E.26.431 WL NO.11	05-20-92	1410	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

LOCAL IDENT- I- FIER	DATE	BENZENE TOTAL (UG/L) (34030)	CHLORO- BENZENE TOTAL (UG/L) (34301)	CHLORO- ETHANE TOTAL (UG/L) (34311)	ETHYL- BENZENE TOTAL (UG/L) (34371)	METHYL- BROMIDE TOTAL (UG/L) (34413)	METHYL- CHLO- RIDE TOTAL (UG/L) (34418)	METHYL- ENE CHLO- RIDE TOTAL (UG/L) (34423)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)
10N.04E.26.332 WL	05-20-92	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
10N.04E.26.341 WL	05-20-92	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
10N.04E.26.431 WL	05-20-92	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

LOCAL IDENT- I- FIER	DATE	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 (UG/L) (34516)	BENZENE O- CHLORO- WATER UNFLTRD REC (UG/L) (34536)
10N.04E.26.332 WL	05-20-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20
10N.04E.26.341 WL	05-20-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20
10N.04E.26.431 WL	05-20-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20

LOCAL IDENT- I- FIER	DATE	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	1,2- TRANSDI CHLORO- ETHENE TOTAL (UG/L) (34546)	1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34561)	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)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)
10N.04E.26.332 WL	05-20-92	<0.2	<0.2	<0.20	<0.20	<0.20	<0.2	<0.2
10N.04E.26.341 WL	05-20-92	<0.2	<0.2	<0.20	<0.20	<0.20	<0.2	<0.2
10N.04E.26.431 WL	05-20-92	<0.2	0.3	<0.20	<0.20	<0.20	<0.2	<0.2

LOCAL IDENT- I- FIER	DATE	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)	STYRENE TOTAL (UG/L) (77128)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	XYLENE WATER UNFLTRD REC (UG/L) (81551)
10N.04E.26.332 WL	05-20-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20
10N.04E.26.341 WL	05-20-92	<0.2	<0.2	<0.2	0.3	<0.2	<0.2	<0.20
10N.04E.26.431 WL	05-20-92	<0.2	<0.2	<0.2	4.9	<0.2	<0.2	<0.20

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
BERNALILLO 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)
10N.05E.19.322 LEIB	350423106263301	001		GW	01-14-92	1324	110AVMB	42.72	146.00	6255
		001		GW	02-18-92	1330	110AVMB	43.50	146.00	6255
		001		GW	03-09-92	1132	110AVMB	41.63	146.00	6255
		001		GW	04-23-92	1247	110AVMB	--	146.00	6255
		001		GW	05-19-92	1437	110AVMB	43.02	146.00	6255
10N.05E.22.234 TIJERAS PO	350449106231901	001		GW	06-17-92	1208	110AVMB	43.80	146.00	6255
		001		GW	09-18-92	0913	110AVMB	44.01	146.00	6255
		001		GW	10-15-91	1317	--	25.45	--	6355
		001		GW	11-18-91	0940	--	26.42	--	6355
		001		GW	12-12-91	1410	--	--	--	6355
		001		GW	12-16-91	1410	--	26.34	--	6355
		001		GW	01-16-92	1550	--	26.50	--	6355
		001		GW	02-18-92	1221	--	25.93	--	6355
		001		GW	03-09-92	0936	--	25.20	--	6355
		001		GW	04-16-92	1050	--	--	--	6355
		001		GW	04-16-92	1412	--	--	--	6355
		001		GW	05-21-92	1344	--	26.39	--	6355
		001		GW	06-12-92	0930	--	26.00	--	6355
		001		GW	09-17-92	1014	--	27.60	--	6355
		001		GW	11-18-91	1311	110AVMB	70.41	120.00	6030
10N.05E.30.213 MCIVER	350410106262601	001		GW	12-13-91	1403	110AVMB	69.24	120.00	6030
		001		GW	01-14-92	1441	110AVMB	68.81	120.00	6030
		001		GW	02-18-92	1447	110AVMB	68.68	120.00	6030
		001		GW	03-09-92	1326	110AVMB	68.35	120.00	6030
		001		GW	04-16-92	1045	110AVMB	--	120.00	6030
		001		GW	04-16-92	1420	110AVMB	--	120.00	6030
		001		GW	05-21-92	0927	110AVMB	68.26	120.00	6030
		001		GW	06-17-92	1356	110AVMB	68.15	120.00	6030
		001		GW	09-18-92	1057	110AVMB	69.51	120.00	6030
		001		GW	10-22-91	1233	--	189.90	300.00	6880
		001		GW	11-20-91	1102	--	--	300.00	6880
		001		GW	12-18-91	1130	--	194.09	300.00	6880
		001		GW	01-22-92	1010	--	191.68	300.00	6880
		001		GW	02-13-92	1313	--	191.19	300.00	6880
		001		GW	03-12-92	1305	--	190.02	300.00	6880
10N.06E.05.441 MCCRAKEN	350655106185601	001		GW	04-24-92	1130	--	--	300.00	6880
		001		GW	05-13-92	0927	--	196.26	300.00	6880
		001		GW	06-18-92	1204	--	--	300.00	6880
		001		GW	07-23-92	1201	--	--	300.00	6880
		001		GW	08-21-92	1238	--	--	300.00	6880
		001		GW	09-23-92	1006	--	--	300.00	6880
		001		GW	10-22-91	1046	--	31.07	85.00	6520
		001		GW	11-15-91	0912	--	24.40	85.00	6520
		001		GW	12-17-91	1027	--	23.22	85.00	6520
		001		GW	01-17-92	1037	--	21.30	85.00	6520
		001		GW	02-19-92	1020	--	21.07	85.00	6520
		001		GW	03-12-92	1117	--	21.79	85.00	6520
		001		GW	04-21-92	1035	--	24.45	85.00	6520
		001		GW	05-27-92	1100	--	27.28	85.00	6520
		001		GW	06-18-92	1010	--	--	85.00	6520
10N.06E.07.331 FOSTER	350604106205801	001		GW	07-24-92	1023	--	34.30	85.00	6520
		001		GW	08-21-92	1055	--	26.87	85.00	6520
		001		GW	09-25-92	1200	--	26.35	85.00	6520
		001		GW	10-24-91	1630	325MDER	141.00	275.00	6775
		001		GW	11-20-91	0914	325MDER	142.37	275.00	6775
		001		GW	12-18-91	1004	325MDER	142.71	275.00	6775
		001		GW	01-27-92	1349	325MDER	--	275.00	6775
		001		GW	02-20-92	1434	325MDER	141.58	275.00	6775
		001		GW	02-20-92	1434	325MDER	141.58	275.00	6775
10N.06E.13.321 TOLMAN	350525106151701	001		GW	02-20-92	1434	325MDER	141.58	275.00	6775
		001		GW	02-20-92	1434	325MDER	141.58	275.00	6775
		001		GW	02-20-92	1434	325MDER	141.58	275.00	6775
		001		GW	02-20-92	1434	325MDER	141.58	275.00	6775
		001		GW	02-20-92	1434	325MDER	141.58	275.00	6775

BERNALILLO COUNTY -- Continued

	LOCAL IDENT- I- FIER	DATE	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN) (72004)	FLOW RATE, INSTAN- TANEOUS (G/M) (00059)	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)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	
10N.05E.19.322 LEI		01-14-92	12	8.0	560	7.7	-1.0	16.5	--	--	--	
		02-18-92	12	10	570	7.7	8.5	16.5	--	--	--	
		03-09-92	20	5.0	560	7.7	7.5	19.5	--	--	--	
		04-23-92	8	5.0	560	7.7	23.0	17.0	--	--	--	
		05-19-92	11	6.5	540	7.7	20.5	17.0	--	--	--	
10N.05E.22.234 TIJ		06-17-92	12	7.5	570	7.7	--	17.0	--	--	--	
		09-18-92	20	3.3	540	7.6	20.5	16.5	--	--	--	
		10-15-91	14	7.5	880	7.6	23.5	14.5	--	--	--	
		11-18-91	29	8.0	875	7.6	6.0	14.5	--	--	--	
		12-12-91	--	--	--	--	--	--	--	--	--	
		12-16-91	16	10	880	7.6	8.0	14.0	--	--	--	
		01-16-92	10	8.0	910	7.6	-1.5	14.0	--	--	--	
		02-18-92	23	17	910	7.6	6.5	14.0	--	--	--	
		03-09-92	14	5.0	980	7.7	4.0	14.0	--	--	--	
		04-16-92	--	--	--	--	--	--	--	--	--	
		04-16-92	--	--	840	6.8	--	14.5	605	0.3	258	
		05-21-92	10	13	910	7.6	19.0	14.0	--	--	--	
		06-12-92	8	11	920	7.6	--	14.5	--	--	--	
		09-17-92	16	5.5	880	7.4	23.0	14.5	--	--	--	
		11-18-91	12	4.0	1090	7.5	6.5	14.0	--	--	--	
10N.05E.30.213 MCI		12-13-91	14	6.0	1110	7.6	6.5	15.0	--	--	--	
		01-14-92	16	8.0	1080	7.6	-1.0	14.0	--	--	--	
		02-18-92	18	6.0	1050	7.6	8.0	14.5	--	--	--	
		03-09-92	13	7.0	1130	7.6	7.5	16.5	--	--	--	
		04-16-92	--	--	1130	7.4	--	16.0	--	6.6	308	
		04-16-92	--	--	1090	7.3	--	17.0	--	6.1	304	
		05-21-92	12	6.0	1060	7.6	15.5	16.5	--	--	--	
		06-17-92	11	5.0	1090	7.6	--	17.5	--	--	--	
		09-18-92	10	5.5	1090	7.6	25.5	17.0	--	--	--	
		10-22-91	13	8.8	2460	7.2	--	14.5	--	--	--	
		11-20-91	15	6.0	2280	7.2	4.0	13.5	--	--	--	
		12-18-91	--	7.0	2130	7.2	2.5	13.0	--	--	--	
		01-22-92	14	6.0	2130	7.2	3.0	14.0	--	--	--	
		02-13-92	13	8.0	2230	7.2	6.0	12.0	--	--	--	
		03-12-92	11	5.0	2000	7.2	14.0	13.5	--	--	--	
10N.06E.05.441 MCC		04-24-92	9	6.0	1860	7.3	20.0	14.0	--	--	--	
		05-13-92	10	6.0	1820	7.2	17.5	14.0	--	--	--	
		06-18-92	5	6.6	1820	7.1	--	14.5	--	--	--	
		07-23-92	6	5.0	1820	7.1	--	15.0	--	--	--	
		08-21-92	12	5.5	1880	7.1	28.0	15.5	--	--	--	
		09-23-92	10	6.0	1800	7.1	17.0	14.5	--	--	--	
		10-22-91	13	10	1550	7.3	--	7.0	--	--	--	
		11-15-91	14	10	1500	7.3	--	14.0	--	--	--	
		12-17-91	21	--	1510	7.4	5.0	13.5	--	--	--	
		01-17-92	9	6.0	1560	7.3	-2.5	13.0	--	--	--	
		02-19-92	18	10	1600	7.3	8.0	13.5	--	--	--	
		03-12-92	17	6.0	1580	7.3	11.5	13.5	--	--	--	
		04-21-92	20	10	1570	7.4	--	13.5	--	--	--	
		05-27-92	19	5.0	1530	7.3	15.0	13.5	--	--	--	
		06-18-92	18	5.0	1700	7.3	--	13.5	--	--	--	
10N.06E.07.331 FOS		07-24-92	19	--	1600	7.2	21.0	13.5	--	--	--	
		08-21-92	22	10	1560	7.2	25.5	15.5	--	--	--	
		09-25-92	22	6.0	1590	7.2	22.0	13.5	--	--	--	
		10-24-91	12	15	1660	7.3	19.0	15.0	--	--	--	
		11-20-91	9	10	1690	7.4	-1.0	14.5	--	--	--	
		12-18-91	8	15	1740	7.3	3.0	13.0	--	--	--	
		01-27-92	6	12	1800	7.4	6.5	14.5	--	--	--	
		02-20-92	8	10	1910	7.2	16.5	14.0	--	--	--	
	10N.06E.13.321 TOL											

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
BERNALILLO COUNTY -- Continued

LOCAL IDENT- I- FIER	DATE	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
10N.05E.19.322 LEI	01-14-92	--	--	11	--	<0.010	0.590	<0.010	--	<0.20
	02-18-92	--	--	13	--	<0.010	0.800	<0.010	--	<0.20
	03-09-92	--	--	12	--	<0.010	0.790	<0.010	--	<0.20
	04-23-92	--	--	11	--	<0.010	0.810	<0.010	--	<0.20
	05-19-92	--	--	--	--	<0.010	0.860	0.010	--	<0.20
10N.05E.22.234 TIJ	06-17-92	--	--	11	--	<0.010	0.840	0.030	--	<0.20
	09-18-92	--	--	9.7	--	<0.010	0.800	0.020	--	<0.20
	10-16-91	--	--	100	0.620	0.020	0.640	<0.010	--	<0.20
	11-18-91	--	--	100	0.550	0.020	0.570	0.020	--	<0.20
	12-12-91	--	--	--	0.420	0.030	0.450	0.010	--	<0.20
	12-16-91	--	--	--	--	--	--	--	--	--
	01-16-92	--	--	110	0.420	0.030	0.450	<0.010	--	<0.20
	02-18-92	--	--	130	0.640	0.020	0.660	<0.010	--	<0.20
	03-09-92	--	--	140	0.690	0.030	0.720	0.010	--	<0.20
	04-16-92	--	--	--	--	<0.010	0.450	<0.010	--	<0.20
	04-16-92	0	211	99	--	<0.010	0.430	<0.010	--	<0.20
	05-21-92	--	--	120	--	<0.010	0.580	<0.010	--	<0.20
	06-12-92	--	--	120	0.550	0.010	0.560	<0.010	--	<0.20
	09-17-92	--	--	120	--	<0.010	0.440	<0.010	--	<0.20
	11-18-91	--	--	120	--	<0.010	15.0	0.020	--	<0.20
10N.05E.30.213 MCI	12-13-91	--	--	110	--	<0.010	14.0	<0.010	--	<0.20
	01-14-92	--	--	94	--	<0.010	15.0	<0.010	--	<0.20
	02-18-92	--	--	100	--	<0.010	15.0	<0.010	--	<0.20
	03-09-92	--	--	110	--	<0.010	15.0	<0.010	--	<0.20
	04-16-92	0	252	120	--	<0.010	16.0	<0.010	--	<0.20
	04-16-92	0	249	130	--	<0.010	16.0	0.010	--	<0.20
	05-21-92	--	--	16	--	<0.010	15.0	<0.010	--	<0.20
	06-17-92	--	--	100	--	<0.010	15.0	0.030	--	<0.20
	09-18-92	--	--	110	--	<0.010	15.0	0.020	--	<0.20
	10-22-91	--	--	630	--	<0.010	11.0	<0.010	--	<0.20
	11-20-91	--	--	540	--	<0.010	11.0	0.030	--	<0.20
	12-18-91	--	--	460	--	<0.010	8.60	<0.010	--	<0.20
	01-22-92	--	--	480	--	<0.010	8.90	0.010	--	<0.20
	02-13-92	--	--	450	--	<0.010	9.10	0.010	--	<0.20
	03-12-92	--	--	310	--	<0.010	9.30	<0.010	--	<0.20
10N.06E.05.441 MCC	04-24-92	--	--	390	--	<0.010	6.70	0.020	--	<0.20
	05-13-92	--	--	360	--	<0.010	7.20	0.070	--	<0.20
	06-18-92	--	--	370	--	<0.010	7.20	0.050	--	<0.20
	07-23-92	--	--	370	--	<0.010	8.00	0.050	--	<0.20
	08-21-92	--	--	390	--	<0.010	8.10	0.020	--	<0.20
	09-23-92	--	--	360	--	<0.010	8.30	0.020	--	<0.20
	10-22-91	--	--	310	--	<0.010	11.0	<0.010	--	<0.20
	11-15-91	--	--	290	12.0	0.020	12.0	<0.010	--	<0.20
	12-17-91	--	--	280	--	<0.010	11.0	<0.010	--	<0.20
	01-17-92	--	--	270	--	<0.010	11.0	<0.010	--	<0.20
	02-19-92	--	--	300	--	<0.010	10.0	<0.010	--	<0.20
	03-12-92	--	--	430	--	<0.010	7.30	<0.010	--	<0.20
	04-21-92	--	--	300	--	<0.010	11.0	0.020	--	<0.20
	05-27-92	--	--	290	11.0	0.050	11.0	<0.010	--	0.20
	06-18-92	--	--	320	9.98	0.020	10.0	0.040	--	<0.20
10N.06E.07.331 FOS	07-24-92	--	--	300	--	<0.010	12.0	<0.010	--	<0.20
	08-21-92	--	--	300	--	<0.010	11.0	<0.010	--	<0.20
	09-25-92	--	--	290	--	<0.010	11.0	0.010	1.9	1.9
	10-24-91	--	--	290	--	<0.010	7.10	0.020	0.18	0.20
	11-20-91	--	--	340	--	<0.010	7.60	0.020	--	<0.20
	12-18-91	--	--	380	--	<0.010	7.20	0.020	--	<0.20
	01-27-92	--	--	390	--	<0.010	7.50	<0.010	--	<0.20
	02-20-92	--	--	420	--	<0.010	7.20	0.020	0.18	0.20
10N.06E.13.321 TOL	02-20-92	--	--	420	--	<0.010	7.20	0.020	0.18	0.20

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
BERNALILLO COUNTY -- Continued

LOCAL IDENT- I- FIER	DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
10N.05E.19.322 LEI	01-14-92	--	--	<0.010	<0.010	0.6	0.02	40	<10
	02-18-92	--	--	<0.010	<0.010	0.4	0.02	30	<10
	03-09-92	--	--	<0.010	<0.010	0.5	0.02	30	10
	04-23-92	--	--	0.020	<0.010	0.4	0.02	30	<10
	05-19-92	--	--	<0.010	0.020	0.4	0.02	30	<10
	06-17-92	--	--	<0.010	<0.010	0.6	0.02	40	<10
	09-18-92	--	--	0.010	<0.010	0.7	0.02	--	--
	10-15-91	--	--	<0.010	0.010	0.7	0.03	190	<10
	11-18-91	--	--	<0.010	<0.010	0.7	0.04	200	160
	12-12-91	--	--	<0.010	<0.010	0.8	0.04	200	90
10N.05E.22.234 TIJ	12-16-91	--	--	--	--	--	--	--	--
	01-16-92	--	--	<0.010	0.020	1.0	0.03	200	<10
	02-18-92	--	--	<0.010	<0.010	0.8	0.04	190	170
	03-09-92	--	--	<0.010	<0.010	1.0	0.03	180	90
	04-16-92	--	--	<0.010	<0.010	0.7	0.03	--	--
	04-16-92	--	--	<0.010	<0.010	1.3	0.03	200	40
	05-21-92	--	--	<0.010	0.020	0.7	0.03	200	120
	06-12-92	--	--	<0.010	<0.010	0.9	0.04	210	80
	09-17-92	--	--	<0.010	<0.010	1.3	0.04	--	--
	11-18-91	--	--	0.010	<0.010	0.9	0.13	30	<10
10N.05E.30.213 MCI	12-13-91	--	--	<0.010	0.010	1.0	0.15	40	<10
	01-14-92	--	--	<0.010	<0.010	6.1	0.14	40	<10
	02-18-92	--	--	<0.010	<0.010	1.0	0.14	30	<10
	03-09-92	--	--	<0.010	<0.010	0.9	0.14	30	10
	04-16-92	--	--	<0.010	<0.010	0.9	0.16	40	<10
	04-16-92	--	--	<0.010	<0.010	1.1	0.15	50	<10
	05-21-92	--	--	<0.010	0.020	0.7	0.16	40	<10
	06-17-92	--	--	<0.010	<0.010	0.8	0.13	40	10
	09-18-92	--	--	<0.010	<0.010	1.2	0.15	--	--
	10-22-91	--	--	<0.010	<0.010	2.6	0.20	50	20
10N.06E.05.441 MCC	11-20-91	--	--	0.010	<0.010	2.8	0.17	50	20
	12-18-91	--	--	<0.010	<0.010	2.5	0.16	60	40
	01-22-92	--	--	0.010	<0.010	2.8	0.15	50	20
	02-13-92	--	--	<0.010	<0.010	3.3	0.15	60	<10
	03-12-92	--	--	0.030	0.010	1.7	0.13	100	<10
	04-24-92	--	--	<0.010	<0.010	2.3	0.15	50	10
	05-13-92	--	<0.010	<0.010	<0.010	2.6	0.16	50	10
	06-18-92	--	--	<0.010	<0.010	2.6	0.13	50	20
	07-23-92	--	--	<0.010	<0.010	2.8	0.13	--	--
	08-21-92	--	--	0.010	<0.010	2.3	0.16	--	--
10N.06E.07.331 FOS	09-23-92	--	--	<0.010	<0.010	2.9	0.16	--	--
	10-22-91	--	--	0.030	0.040	2.1	0.13	100	<10
	11-15-91	--	--	0.020	0.030	2.0	0.14	110	<10
	12-17-91	--	--	0.020	0.020	1.8	0.15	100	<10
	01-17-92	--	--	0.040	0.030	1.8	0.12	100	<10
	02-19-92	--	--	0.050	0.040	1.7	0.14	90	<10
	03-12-92	--	--	<0.010	<0.010	2.7	0.15	60	<10
	04-21-92	--	--	0.020	<0.010	1.8	0.13	100	<10
	05-27-92	11	--	0.030	0.030	1.9	0.17	110	<10
	06-18-92	--	--	0.040	0.100	2.5	0.10	100	<10
10N.06E.13.321 TOL	07-24-92	--	--	0.040	0.020	1.7	0.13	--	--
	08-21-92	--	--	0.030	0.030	1.8	0.14	--	--
	09-25-92	13	--	0.020	0.090	2.0	0.15	--	--
	10-24-91	7.3	--	0.020	0.030	4.5	0.13	70	10
	11-20-91	--	--	0.030	<0.010	3.2	0.14	60	<10
	12-18-91	--	--	0.020	0.020	3.3	0.19	60	90
	01-27-92	--	--	0.010	0.010	3.1	0.16	60	20
	02-20-92	7.4	--	0.040	0.020	3.3	0.15	50	30

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

BERNALILLO 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)
10N.06E.13.321 TOLMAN	350525106151701	001		GW	03-17-92	1023	325MDER	140.63	275.00
		001		GW	04-24-92	1404	325MDER	140.24	275.00
		001		GW	05-13-92	1110	325MDER	140.19	275.00
		001		GW	06-18-92	1346	325MDER	140.55	275.00
		001		GW	07-27-92	0845	325MDER	141.35	275.00
11N.05E.23.222B MATHEWS	351011106220401	001		GW	08-24-92	1132	325MDER	142.04	275.00
		001		GW	09-23-92	1139	325MDER	141.22	275.00
		001		GW	10-16-91	1304	--	12.85	--
		001		GW	11-12-91	1300	--	12.99	--
		001		GW	12-12-91	1245	--	12.69	--
		001		GW	01-15-92	1244	--	12.39	--
		001		GW	02-11-92	1331	--	12.08	--
		001		GW	03-11-92	0925	--	11.21	--
		001		GW	04-28-92	1003	--	11.38	--
		001		GW	05-12-92	1328	--	12.70	--
		001		GW	06-10-92	1221	--	--	--
		001		GW	07-17-92	1203	--	14.02	--
		001		GW	08-14-92	1205	--	--	--
		001		GW	09-14-92	1205	--	15.12	--
		001		GW	10-17-91	1007	--	191.78	260.00
11N.05E.24.412 ANISON	350949106211801	001		GW	11-13-91	1006	--	191.47	260.00
		001		GW	12-12-91	1105	--	191.24	260.00
		001		GW	01-15-92	1115	--	191.06	260.00
		001		GW	02-11-92	1515	--	190.70	260.00
		001		GW	03-10-92	1021	--	190.25	260.00
		001		GW	04-27-92	1140	--	188.28	260.00
		001		GW	05-26-92	1254	--	187.29	260.00
		001		GW	06-11-92	1114	--	186.79	260.00
		001		GW	07-21-92	0949	--	186.41	260.00
		001		GW	08-18-92	1143	--	186.29	260.00
		001		GW	09-15-92	1025	--	186.59	260.00
		001		GW	10-17-91	1201	--	45.10	120.00
		001		GW	11-12-91	1103	--	--	120.00
		001		GW	12-17-91	1320	--	44.81	120.00
		001		GW	01-15-92	1415	--	44.52	120.00
11N.05E.24.443 WESTBROOK	350930106210701	001		GW	02-19-92	1149	--	44.84	120.00
		001		GW	03-10-92	1306	--	43.50	120.00
		001		GW	04-24-92	0821	--	43.94	120.00
		001		GW	05-12-92	1010	--	--	120.00
		001		GW	06-10-92	0915	--	44.01	120.00
		001		GW	07-17-92	0852	--	45.57	120.00
		001		GW	08-14-92	0925	--	45.43	120.00
		001		GW	09-14-92	1420	--	47.24	120.00
		001		GW	10-16-91	1126	--	43.32	--
		001		GW	11-13-91	1140	--	43.63	--
		001		GW	12-11-91	1305	--	43.95	--
		001		GW	01-14-92	1027	--	43.51	--
		001		GW	02-11-92	1133	--	42.73	--
		001		GW	03-10-92	1140	--	42.06	--
		001		GW	04-20-92	1158	--	41.16	--
11N.06E.19.122 LIEBLING	351014106202801	001		GW	05-12-92	1141	--	39.22	--
		001		GW	06-10-92	1107	--	37.66	--
		001		GW	07-17-92	1034	--	38.53	--
		001		GW	08-14-92	1044	--	39.65	--
		001		GW	09-14-92	1040	--	40.41	--
		001		GW	10-16-91	0956	--	151.50	280.00
		001		GW	11-14-91	1015	--	151.70	280.00
		001		GW	12-11-91	1125	--	151.87	280.00
		001		GW	04-27-92	1355	--	152.42	280.00
		001		GW	05-15-92	1355	--	152.60	280.00
11N.06E.21.133 PAVEL	350949106184501	001		GW	10-16-91	0956	--	151.50	280.00
		001		GW	11-14-91	1015	--	151.70	280.00
		001		GW	12-11-91	1125	--	151.87	280.00
		001		GW	04-27-92	1355	--	152.42	280.00
		001		GW	05-15-92	1355	--	152.60	280.00

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
BERNALILLO COUNTY -- Continued

LOCAL IDENT- I- FIER	DATE	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN) (72004)	FLOW RATE, INSTAN- TANEOUS (G/M) (00059)	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)
10N.06E.13.321 TOL	03-17-92	6775	12	6.0	1850	7.4	--	14.0
	04-24-92	6775	9	5.0	2000	7.4	22.5	14.5
	05-13-92	6775	7	6.0	1930	7.3	23.0	14.5
	06-18-92	6775	16	6.0	2000	7.3	--	14.5
	07-27-92	6775	7	15	1900	7.3	--	14.5
11N.05E.23.222B MA	08-24-92	6775	8	12	1980	7.3	20.0	17.5
	09-23-92	6775	9	6.0	1890	7.4	21.0	14.5
	10-16-91	7100	10	5.5	900	7.1	23.5	13.0
	11-12-91	7100	10	6.0	980	7.1	9.5	12.0
	12-12-91	7100	10	6.5	820	7.1	3.0	11.5
	01-15-92	7100	12	8.0	810	7.3	-6.0	10.0
	02-11-92	7100	14	10	922	7.3	5.0	10.0
	03-11-92	7100	8	8.0	870	7.3	3.0	9.0
	04-28-92	7100	13	5.5	800	7.3	21.0	9.0
	05-12-92	7100	5	10	800	7.2	23.5	9.5
	06-10-92	7100	3	10	850	7.2	--	9.5
	07-17-92	7100	9	6.5	815	7.3	--	11.0
	08-14-92	7100	6	9.0	810	7.2	23.5	11.0
	09-14-92	7100	8	10	825	7.1	24.5	11.5
	10-17-91	6940	11	6.0	445	7.4	20.5	12.5
11N.05E.24.412 ANI	11-13-91	6940	10	9.0	458	7.4	8.5	12.0
	12-12-91	6940	10	9.5	449	7.5	3.5	11.0
	01-15-92	6940	12	8.0	480	7.4	-8.0	11.0
	02-11-92	6940	14	12	523	7.4	5.5	11.0
	03-10-92	6940	11	8.0	555	7.4	5.0	11.0
	04-27-92	6940	11	6.0	610	7.4	20.5	12.0
	05-26-92	6940	18	12	620	7.4	16.0	13.0
	06-11-92	6940	10	9.5	620	7.3	--	12.5
	07-21-92	6940	11	11	630	7.3	--	13.0
	08-18-92	6940	8	10	620	7.3	21.0	13.0
	09-15-92	6940	11	6.0	630	7.2	16.0	13.0
	10-17-91	6860	11	6.5	1180	7.2	23.5	14.0
	11-12-91	6860	7	12	1160	7.2	7.5	13.5
	12-17-91	6860	15	3.0	1180	7.1	7.0	13.0
	01-15-92	6860	8	7.0	1200	7.2	-7.0	13.0
11N.05E.24.443 WES	02-19-92	6860	8	14	1190	7.1	4.5	13.0
	03-10-92	6860	6	11	1130	7.2	9.0	13.5
	04-24-92	6860	8	9.0	1140	7.3	12.5	13.0
	05-12-92	6860	8	10	1150	7.3	19.5	13.5
	06-10-92	6860	10	12	1160	7.3	--	13.5
	07-17-92	6860	12	9.0	1140	7.2	--	13.5
	08-14-92	6860	7	10	1110	7.2	21.0	14.0
	09-14-92	6860	25	3.0	1110	7.2	21.0	15.0
	10-16-91	6798	9	3.0	800	7.4	--	14.5
	11-13-91	6798	10	3.0	800	7.5	11.5	12.0
	12-11-91	6798	5	2.0	680	7.5	1.0	10.0
	01-14-92	6798	20	1.5	705	7.3	-3.0	9.5
	02-11-92	6798	19	3.0	822	7.5	8.0	10.5
	03-10-92	6798	5	2.0	740	7.5	7.5	9.0
	04-20-92	6798	10	2.0	760	7.4	11.5	11.5
11N.06E.19.122 LIE	05-12-92	6798	10	2.0	810	7.5	21.0	13.0
	06-10-92	6798	7	2.5	790	7.5	--	14.0
	07-17-92	6798	10	3.0	700	7.5	--	18.0
	08-14-92	6798	8	2.0	690	7.6	--	17.0
	09-14-92	6798	15	2.2	670	7.5	24.5	17.0
	10-16-91	6700	6	9.0	680	7.4	19.0	14.0
	11-14-91	6700	7	2.0	700	7.5	9.0	14.0
	12-11-91	6700	5	1.0	815	7.5	1.5	12.5
	04-27-92	6700	10	--	690	7.5	26.5	14.0
	05-15-92	6700	6	7.0	670	7.5	--	13.5

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

BERNALILLO COUNTY -- Continued

LOCAL IDENT- IFIER	DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
10N.06E.13.321 TOL	03-17-92	420	--	<0.010	7.30	<0.010	<0.20	--
	04-24-92	460	--	<0.010	7.00	0.020	<0.20	--
	05-13-92	410	--	<0.010	7.20	0.010	<0.20	--
	06-18-92	450	--	<0.010	7.30	0.050	<0.20	--
	07-27-92	430	--	<0.010	7.20	0.010	<0.20	--
	08-24-92	440	--	<0.010	7.00	0.020	<0.20	--
	09-23-92	470	--	<0.010	7.10	0.030	<0.20	--
	10-16-91	110	--	<0.010	0.220	<0.010	0.30	0.52
	11-12-91	100	--	<0.010	0.220	<0.010	<0.20	--
	12-12-91	99	--	<0.010	0.160	<0.010	<0.20	--
11N.05E.23.222B MA	01-15-92	100	--	<0.010	0.150	<0.010	<0.20	--
	02-11-92	94	--	<0.010	0.160	0.010	<0.20	--
	03-11-92	--	--	<0.010	0.260	0.030	<0.20	--
	04-28-92	88	--	<0.010	0.220	0.020	<0.20	--
	05-12-92	89	--	<0.010	0.240	0.060	<0.20	--
	06-10-92	87	--	<0.010	0.230	<0.010	<0.20	--
	07-17-92	84	--	<0.010	0.220	0.040	<0.20	--
	08-14-92	89	--	<0.010	0.200	0.010	<0.20	--
	09-14-92	82	--	<0.010	0.200	<0.010	<0.20	--
	10-17-91	8.9	--	<0.010	0.330	<0.010	<0.20	--
11N.05E.24.412 ANI	11-13-91	12	--	<0.010	0.360	<0.010	<0.20	--
	12-12-91	15	--	<0.010	0.360	<0.010	<0.20	--
	01-15-92	15	--	<0.010	0.380	<0.010	<0.20	--
	02-11-92	17	--	<0.010	0.430	<0.010	<0.20	--
	03-10-92	30	--	<0.010	0.550	<0.010	<0.20	--
	04-27-92	47	--	<0.010	0.650	0.010	<0.20	--
	05-26-92	50	--	<0.010	0.630	<0.010	<0.20	--
	06-11-92	51	--	<0.010	0.620	<0.010	<0.20	--
	07-21-92	57	--	<0.010	0.610	0.030	<0.20	--
	08-18-92	56	--	<0.010	0.610	<0.010	<0.20	--
11N.05E.24.443 WES	09-15-92	54	--	<0.010	0.550	0.010	<0.20	--
	10-17-91	160	--	<0.010	19.0	<0.010	<0.20	--
	11-12-91	170	--	<0.010	19.0	<0.010	<0.20	--
	12-17-91	150	--	<0.010	18.0	<0.010	<0.20	--
	01-15-92	170	--	<0.010	18.0	0.010	<0.20	--
	02-19-92	160	--	<0.010	18.0	0.010	<0.20	--
	03-10-92	160	--	<0.010	19.0	0.010	<0.20	--
	04-24-92	160	--	<0.010	17.0	0.020	<0.20	--
	05-12-92	150	--	<0.010	18.0	0.060	<0.20	--
	06-10-92	150	--	<0.010	19.0	0.020	<0.20	--
11N.06E.19.122 LIE	07-17-92	150	--	<0.010	19.0	0.040	<0.20	--
	08-14-92	160	--	<0.010	20.0	<0.010	<0.20	--
	09-14-92	140	--	<0.010	18.0	0.010	<0.20	--
	10-16-91	120	--	<0.010	2.10	<0.010	<0.20	--
	11-13-91	110	--	<0.010	2.10	<0.010	<0.20	--
	12-11-91	110	--	<0.010	2.00	<0.010	<0.20	--
	01-14-92	94	--	<0.010	2.00	<0.010	<0.20	--
	02-11-92	110	--	<0.010	2.10	<0.010	<0.20	--
	03-10-92	110	--	<0.010	2.10	<0.010	<0.20	--
	04-20-92	120	--	<0.010	2.00	<0.010	<0.20	--
11N.06E.21.133 PAV	05-12-92	120	--	<0.010	2.00	0.050	<0.20	--
	06-10-92	110	--	<0.010	2.20	<0.010	<0.20	--
	07-17-92	94	--	<0.010	2.30	0.040	<0.20	--
	08-14-92	93	--	<0.010	2.50	0.010	<0.20	--
	09-14-92	80	--	<0.010	2.30	0.010	<0.20	--
	10-16-91	25	--	<0.010	1.30	<0.010	<0.20	--
	11-14-91	27	--	<0.010	1.30	<0.010	<0.20	--
	12-11-91	28	1.19	0.010	1.20	<0.010	<0.20	--
	04-27-92	28	--	<0.010	1.40	0.010	<0.20	--
	05-15-92	30	--	<0.010	1.20	<0.010	<0.20	--

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
BERNALILLO COUNTY -- Continued

LOCAL IDENT- IFIER	DATE	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
10N.06E.13.321 TOL	03-17-92	0.010	<0.010	3.4	0.14	60	<10
	04-24-92	0.020	<0.010	3.5	0.17	50	<10
	05-13-92	0.030	0.030	3.2	0.16	60	10
	06-18-92	0.030	<0.010	3.1	0.13	60	20
	07-27-92	0.030	0.010	3.2	0.13	--	--
	08-24-92	0.020	0.010	3.5	0.14	--	--
	09-23-92	0.020	0.020	3.1	0.15	--	--
	10-16-91	<0.010	<0.010	0.9	0.03	<10	<10
	11-12-91	<0.010	<0.010	1.3	0.04	20	<10
	12-12-91	0.030	0.010	2.1	0.04	30	<10
11N.05E.23.222B MA	01-15-92	<0.010	0.010	1.1	0.03	20	<10
	02-11-92	<0.010	<0.010	1.1	0.03	20	<10
	03-11-92	0.010	<0.010	2.3	0.03	20	<10
	04-28-92	<0.010	<0.010	1.4	0.04	20	<10
	05-12-92	<0.010	<0.010	1.3	0.03	20	10
	06-10-92	<0.010	<0.010	1.1	0.03	20	<10
	07-17-92	<0.010	<0.010	1.2	0.03	--	--
	08-14-92	<0.010	<0.010	1.2	0.04	--	--
	09-14-92	<0.010	0.010	1.0	0.04	--	--
	10-17-91	<0.010	<0.010	0.4	0.01	10	<10
11N.05E.24.412 ANI	11-13-91	0.020	<0.010	0.4	0.02	<10	<10
	12-12-91	0.030	0.010	0.3	0.02	<10	<10
	01-15-92	0.010	0.020	0.5	0.01	20	<10
	02-11-92	0.020	<0.010	0.5	0.02	10	<10
	03-10-92	<0.010	<0.010	0.5	0.02	20	<10
	04-27-92	<0.010	<0.010	0.9	0.02	20	<10
	05-26-92	0.010	0.010	0.6	0.03	20	<10
	06-11-92	<0.010	<0.010	0.7	0.03	10	<10
	07-21-92	<0.010	<0.010	0.5	0.02	--	--
	08-18-92	0.010	<0.010	0.7	0.04	--	--
11N.05E.24.443 WES	09-15-92	0.010	0.020	0.7	0.02	--	--
	10-17-91	0.020	0.040	1.0	0.18	50	--
	11-12-91	0.030	0.030	1.6	0.18	60	<10
	12-17-91	0.020	0.020	1.2	0.18	70	<10
	01-15-92	0.020	0.030	1.5	0.17	70	<10
	02-19-92	0.030	0.020	1.3	0.18	60	<10
	03-10-92	0.020	0.020	1.3	0.17	60	20
	04-24-92	0.030	<0.010	1.1	0.21	70	<10
	05-12-92	0.030	<0.010	1.1	0.20	60	<10
	06-10-92	0.020	<0.010	1.1	0.20	70	<10
11N.06E.19.122 LIE	07-17-92	0.030	0.020	1.3	0.18	--	--
	08-14-92	0.030	<0.010	1.4	0.20	--	--
	09-14-92	0.020	0.020	1.3	0.20	--	--
	10-16-91	<0.010	0.020	1.8	0.05	40	<10
	11-13-91	0.010	<0.010	2.1	0.07	50	<10
	12-11-91	0.030	<0.010	1.9	0.07	50	<10
	01-14-92	<0.010	0.020	2.3	0.05	50	10
	02-11-92	0.020	0.010	2.0	0.07	40	<10
	03-10-92	<0.010	<0.010	1.8	0.05	50	<10
	04-20-92	<0.010	<0.010	2.0	0.05	50	<10
11N.06E.21.133 FAV	05-12-92	0.020	<0.010	2.1	0.07	50	<10
	06-10-92	0.010	<0.010	2.0	0.06	50	<10
	07-17-92	0.010	<0.010	1.7	0.05	--	--
	08-14-92	0.010	<0.010	1.7	0.06	--	--
	09-14-92	<0.010	<0.010	1.7	0.06	--	--
	10-16-91	0.010	0.030	0.7	0.03	60	<10
	11-14-91	0.010	<0.010	0.8	0.04	80	<10
	12-11-91	0.020	0.010	0.8	0.04	70	10
	04-27-92	0.020	<0.010	0.7	0.03	70	<10
	05-15-92	0.020	0.030	0.7	0.03	70	10

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

BERNALILLO COUNTY -- Continued

LOCAL IDENT- I- FIER	STATION	NUMBER	COUNTY	SITE	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN) (72004)
11N.06E.21.133 PAVEL	350949106184501	001	001	GW	06-11-92	1244	152.79	280.00	6700	7
			001	GW	09-15-92	1213	153.56	280.00	6700	6

LOCAL IDENT- I- FIER	DATE	FLOW RATE, INSTAN- TANEOUS (G/M) (00059)	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)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
11N.06E.21.133 PAV	06-11-92	--	680	7.4	--	14.0	28	<0.010	1.30
	09-15-92	6.0	640	7.4	22.0	13.5	25	<0.010	1.10

LOCAL IDENT- I- FIER	DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
11N.06E.21.133 PAV	06-11-92	<0.010	<0.20	0.010	<0.010	0.7	0.03	60	10
	09-15-92	<0.010	<0.20	0.010	0.020	0.6	0.03	--	--

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
COLFAX COUNTY

LOCAL IDENT- I- FIER	STATION	NUMBER	COUNTY	SITE	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
Maxwell NWR-East well, sou	363345104341001	007	GW	06-16-92	1100	--		7.2	21.0	34000
Maxwell NWR-North well, no	363433104344501	007	GW	06-15-92	1630	5760		7.0	13.5	3000
Maxwell NWR-North well, so	363348104342001	007	GW	06-16-92	1115	6120		7.7	14.0	3000
Maxwell NWR-West well, sou	363344104342501	007	GW	06-16-92	1200	9320		7.3	20.0	4100

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)	ALKA- LINITY LAB (MG/L AS CACO3) (00410)	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)
Maxwell NWR-East w	06-16-92	440	8100	8100	19	3.8	1540	46000	1700	<0.10
Maxwell NWR-North	06-15-92	410	490	430	3	0.40	391	3400	74	0.60
Maxwell NWR-North	06-16-92	380	510	530	4	1.6	460	3800	59	0.80
Maxwell NWR-West w	06-16-92	370	780	450	3	0.50	603	5700	190	1.0

LOCAL IDENT- I- FIER	DATE	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)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)
Maxwell NWR-East w	06-16-92	78400	65300	<0.010	<0.050	0.280	0.410	9	3700	<1.0
Maxwell NWR-North	06-15-92	6850	5040	<0.010	<0.050	0.050	0.050	2	1300	<1.0
Maxwell NWR-North	06-16-92	6200	5560	<0.010	1.00	0.060	0.230	4	560	<1.0
Maxwell NWR-West w	06-16-92	10300	7850	<0.010	<0.050	0.070	0.060	2	620	<1.0

LOCAL IDENT- I- FIER	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)
Maxwell NWR-East w	06-16-92	<5	<1	<1	<0.1	300	4	110	<10
Maxwell NWR-North	06-15-92	<1	4	<1	<0.1	22	<1	4	<10
Maxwell NWR-North	06-16-92	<1	<1	<1	<0.1	7	35	16	<10
Maxwell NWR-West w	06-16-92	<1	<1	<1	<0.1	4	<1	9	<10

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
MCKINLEY COUNTY

LOCAL IDENT- I- FIER	STATION	NUMBER	COUNTY	SITE	DATE	TIME	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
14N.20W.10.214	352742108563301	031	GW	03-31-92	0830	110AVMB	85.00	6300	810	
	352743108563401	031	GW	03-31-92	1115	110AVMB	60.00	6300	2700	
14N.20W.10.214 MAN DP	352742108562301	031	GW	03-31-92	1200	110AVMB	--	6290	1980	
15N.17W.08.333A	353220108400001	031	GW	04-01-92	0900	221MRSN	25.00	6600	2100	
15N.17W.08.333C	353220108400003	031	GW	04-01-92	1000	221MRSN	--	6600	1500	
15N.17W.08.333D	353220108400004	031	GW	03-31-92	1605	221MRSN	--	6600	1320	
16N.17W.25.111	353537108355001	031	GW	04-01-92	1345	110AVMB	--	6672	1300	
16N.17W.25.112	353535108355004	031	GW	04-01-92	1330	210MNCs	52.00	6682	7300	
	353536108354901	031	GW	04-01-92	1605	210MNCs	32.00	6682	5800	

LOCAL IDENT- I- FIER	DATE	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	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)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)
14N.20W.10.214	03-31-92	7.7	6.0	12.0	140	31	16	150	5	9.4
	03-31-92	7.2	8.0	12.5	360	75	41	560	13	11
14N.20W.10.214 MAN	03-31-92	7.7	8.0	11.5	380	110	26	320	7	11
15N.17W.08.333A	04-01-92	7.5	4.0	11.0	490	140	34	350	7	13
15N.17W.08.333C	04-01-92	7.7	6.0	11.0	130	41	6.9	310	12	11
15N.17W.08.333D	03-31-92	7.4	6.0	12.0	190	57	11	240	8	14
16N.17W.25.111	04-01-92	7.6	10.0	8.0	580	180	31	100	2	8.6
16N.17W.25.112	04-01-92	7.4	10.0	11.0	1300	190	190	1300	16	8.7
	04-01-92	7.6	10.0	11.0	1800	440	170	730	7	8.0

LOCAL IDENT- I- FIER	DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	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)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)
14N.20W.10.214	03-31-92	513	230	<0.5	<1.0	<5	<3	<10	1600	<10
	03-31-92	1970	26	<2	<3.0	<20	<9	<30	31	30
14N.20W.10.214 MAN	03-31-92	1360	37	<2	<3.0	<20	<9	<30	320	<30
15N.17W.08.333A	04-01-92	1560	13	<2	<3.0	<20	<9	<30	40	<30
15N.17W.08.333C	04-01-92	1010	10	<0.5	<1.0	<5	<3	<10	<3	10
15N.17W.08.333D	03-31-92	860	15	<0.5	<1.0	<5	<3	<10	11	<10
16N.17W.25.111	04-01-92	994	91	<0.5	<1.0	<5	<3	<10	480	<10
16N.17W.25.112	04-01-92	6590	<5	<3	<1.0	<1	3	<1	3700	1
	04-01-92	4910	6	<2	<3.0	<20	<9	<30	<9	<30

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

MCKINLEY COUNTY -- Continued

LOCAL IDENT- I- FIER	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)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
14N.20W.10.214	03-31-92	6	130	30	<10	<1	<1.0	770	<6	3
	03-31-92	25	1200	<30	<30	<1	<3.0	1800	<18	45
14N.20W.10.214 MAN	03-31-92	<12	3500	<30	<30	<1	<3.0	1500	<18	41
15N.17W.08.333A	04-01-92	32	40	<30	<30	1	<3.0	1800	<18	15
15N.17W.08.333C	04-01-92	16	350	10	<10	<1	<1.0	370	<6	<3
15N.17W.08.333D	03-31-92	25	140	<10	<10	<1	<1.0	540	<6	<3
16N.17W.25.111	04-01-92	23	2900	20	<10	<1	1.0	1500	<6	210
16N.17W.25.112	04-01-92	54	1000	<50	3	<1	<1.0	3700	<30	17
	04-01-92	83	26	<30	<30	<1	<3.0	5000	<18	11

LOCAL IDENT- I- FIER	DATE	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)	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 YT-90) (80050)	BETA, 2 SIGMA WATER, DISS, AS SR90 /Y90 (PCI/L) (75988)	RA-226, DIS- SOLVED, PLAN- CHET COUNT (PCI/L) (09510)
14N.20W.10.214	03-31-92	<0.6	0.45	--	<0.60	2.4	1.3	1.8	0.98	0.1
	03-31-92	16	2.7	--	11	11	4.7	8.0	3.6	<0.1
14N.20W.10.214 MAN	03-31-92	10	2.2	--	6.3	12	3.8	9.3	2.9	0.1
15N.17W.08.333A	04-01-92	24	3.7	15	2.9	22	5.4	17	4.0	<0.1
15N.17W.08.333C	04-01-92	16	1.4	9.7	1.0	12	3.3	9.3	2.5	<0.1
15N.17W.08.333D	03-31-92	26	3.8	18	2.5	19	3.9	14	2.9	<0.1
16N.17W.25.111	04-01-92	110	5.6	74	4.4	120	15	89	11	0.2
16N.17W.25.112	04-01-92	14	3.4	--	11	16	11	12	8.0	<0.1
	04-01-92	34	4.4	23	3.3	37	11	28	8.3	<0.1

LOCAL IDENT- I- FIER	DATE	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	URANIUM -238 WATER DISSOLV (PCI/L) (22603)	U-238 2 SIGMA WATER, DISS, (PCI/L) (75991)	URANIUM -234 WATER DISSOLV (PCI/L) (22610)	U-234 2 SIGMA WATER, DISS, (PCI/L) (75992)	URANIUM -235 WATER, DISS, (PCI/L) (22620)	U-235 2 SIGMA WATER, DISS, (PCI/L) (75994)
14N.20W.10.214	03-31-92	0.138	<1.0	<0.10	0.02	<0.10	0.0	<0.1	0.01
	03-31-92	0.103	22	4.7	0.50	7.5	0.8	0.2	0.05
14N.20W.10.214 MAN	03-31-92	0.130	15	5.1	0.53	6.4	0.7	0.2	0.05
15N.17W.08.333A	04-01-92	0.101	35	11	1.1	15	1.4	0.5	0.09
15N.17W.08.333C	04-01-92	0.081	19	6.0	0.62	8.7	0.9	0.3	0.06
15N.17W.08.333D	03-31-92	0.129	29	11	1.1	16	1.6	0.4	0.08
16N.17W.25.111	04-01-92	0.175	260	71	6.9	74	7.2	2.9	0.46
16N.17W.25.112	04-01-92	0.093	18	6.0	0.64	8.7	0.9	0.2	0.06
	04-01-92	0.112	63	23	2.2	33	3.2	0.8	0.14

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

SANDOVAL COUNTY

LOCAL IDENT- I- FIER	STATION	NUMBER	COUNTY	SITE	DATE	TIME	GEO- LOGIC UNIT	SAM- PLING DEPTH (FEET) (00003)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
13N.03E.25.44 BERN NO. 4	351921106340301	043	GW	11-13-91	0900	112SNTF	1150	435	
		043	GW	11-27-91	1900	112SNTF	995	800	
		043	GW	11-27-91	2400	112SNTF	1050	800	
		043	GW	11-28-91	1230	112SNTF	890	970	
		043	GW	11-29-91	0706	112SNTF	680	850	
		043	GW	11-29-91	1735	112SNTF	740	860	
		043	GW	11-30-91	0420	112SNTF	615	1050	
		043	GW	11-30-91	1500	112SNTF	555	1340	
		043	GW	12-01-91	1420	112SNTF	470	1570	
		043	GW	12-01-91	2000	112SNTF	340	2000	

LOCAL IDENT- IFIER	DATE	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)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LITY LAB (MG/L AS CACO3) (90410)
13N.03E.25.44 BERN	11-13-91	8.0	34	11	1.7	76	6	3.5	85
	11-27-91	7.8	100	36	2.8	110	5	5.0	87
	11-27-91	7.7	89	32	2.3	110	5	4.4	75
	11-28-91	7.8	160	53	5.6	110	4	5.5	108
	11-29-91	7.9	140	45	5.5	110	4	5.1	127
	11-29-91	7.9	150	49	6.0	100	4	5.5	123
	11-30-91	7.9	200	67	8.4	120	4	6.7	141
	11-30-91	8.0	270	90	12	140	4	8.2	157
	12-01-91	7.8	330	110	14	140	3	8.8	93
	12-01-91	7.8	460	150	20	160	3	10	119

LOCAL IDENT- IFIER	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 CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
13N.03E.25.44 BERN	11-13-91	23	67	1.4	41	276	290	100
	11-27-91	51	170	0.70	33	461	170	5
	11-27-91	45	180	1.0	33	453	160	24
	11-28-91	110	170	0.60	43	563	320	<3
	11-29-91	110	130	1.0	45	528	330	<3
	11-29-91	110	130	0.70	46	521	350	<3
	11-30-91	140	150	0.60	47	625	440	5
	11-30-91	150	220	0.70	47	763	600	7
	12-01-91	130	330	1.0	44	834	320	4
	12-01-91	210	320	1.0	41	984	410	7

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI).

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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