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Water Resources Data New Mexico Water Year 2001

By Dave Byrd, Kathy Lange, and Linda Beal

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Prepared in cooperation with the
State of New Mexico and with other agencies

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PREFACE

This annual hydrologic data report of New Mexico is one of a series of annual reports that documents hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and the quality of water 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.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey of the New Mexico District who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. The authors had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to U.S. Geological Survey policies and guidelines.

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Water-resources data for the 2001 water 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 in wells and springs. This report contains discharge records for 173 gaging stations; stage and contents for 24 lakes and reservoirs; water quality for 37 gaging stations, 43 wells, and 11 partial-record stations and miscellaneous sites; and water levels at 136 observation wells. Also included are 84 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. One seepage investigation was 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.

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[Letters after station names designate type of data: (d) discharge, (c) chemical, (b) biological, (m) microbiological, (r) radiochemical, (s) sediment, (t) daily water temperature, (e) elevation, (v) contents]

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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
Vermejo River at Vermejo Park, NM	07202400	36.7	1985-93
Vermejo River near Maxwell, NM	07203525	486	1983-94
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
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

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Period of record
ARKANSAS RIVER BASIN--Continued			
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
Mora River near Watrous, NM	07218100	521	1956-63
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
Mora River near Shoemaker, NM	07221000	6,015	1912-14
Canadian River near Bell Ranch, NM	07222000	6,200	1935-96 1915-17, 1927-39
Bell Ranch Canal near Conchas Dam, NM	07223000	--	1942-84
Canchos Canal below Conchas Dam, NM	07223300	--	1961-82,
Canadian River below Conchas Dam, NM	07224500	7,417	1984-92 1936-38,
Conchas River at Verjadero, NM	07225000	523	1942-72 1936-96
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	072271401	2,616	1969-73
Tramperos Creek near Stead, NM	07227200*	556	1966-73
BRAZOS RIVER BASIN			
Running Water Draw near Clovis, NM	08080600*	109	1956-64
RIO GRANDE BASIN			
Latir Creek Outflow Lake #9 near Amalia, NM	08254400	--	1987-88
Latir Creek Outflow Lake #2 near Amalia, NM	08254425	--	1986-88
Costilla Creek near Amalia, NM	08254500	152	1949-59, 1961-81

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
Ute Creek near Amalia, NM	08255000	12	1949-59
Acequia Madre at Costilla, NM	08256000	--	1944-92
Mesa ditch near Garcia, CO	08256500	--	1944-65, 1969-83
Middle ditch at Garcia, CO	08257000	--	1944-56
Cerro Canal at Costilla, NM	08258000	--	1944-92
Association ditch at Costilla, NM	08258500	--	1955-71
Cerro Canal below Association Ditch at Costilla, NM	08258600	--	1972-92
Cerro Canal near Jaroso, CO	08259000	--	1944-72
Cerro Canal at State line near Jaroso, CO	08259600	--	1973-92
Penasquito ditch at Costilla, NM	08260000	--	1955-61
Costilla Creek below diversion dam, at Costilla, NM	08260500	197	1952-86
Alire ditch at Garcia, CO	08261500	--	1944-59
Costilla Creek near Jaroso, CO (near Mouth, NM	08262500	290	1912-13, 1948-61
Latir Creek near Cerro, NM	08263000	10	1937-70
Red River near Red River, NM	08264000	19.1	1940-64
Red River below Zwergle Damsite, near Red River, NM	08264500	25.7	1963-73
Cabresto Creek near Questa, NM	08266000	36.7	1943-96
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
Rio Grande near Arroyo Hondo, NM	08268700	8,760	1963-96
Acequia Madre at Taos, NM	08269500	--	1940-41
North channel of Rio Pueblo de Taos at Taos, NM	08270000	80	1936-41
Rio Pueblo de Taos at Taos, NM	08270500	80	1936-41
Tenorio ditch near Arroyo Seco, NM	08271500	--	1935-50
Rio Lucero diversions near Arroyo Seco, NM	08272000	--	1932-33
Indian ditch near Arroyo Seco, NM	08272500	--	1934-50
Seco ditch near Arroyo Seco, NM	08273000	--	1934-50
Juan Manuel ditch near Arroyo Seco, NM	08273500	--	1935-50
Prado ditch near Arroyo Seco, NM	08274000	--	1934-50
Rio Lucero below diversions, near Arroyo Seco, NM	08274500	25	1934-41

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
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
Santa Clara Creek near Espanola, NM	08292000	34.5	1936-41 1949-50 1984-94
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

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

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

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
Hubbard ditch near Santa Fe, NM	08307500	--	1938-41
Mitchell ditch near Santa Fe, NM	08308000	--	1936-51
Rio Tesuque at Grant Boundary at Tesuque, NM	08308025	12	1998-99
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
Los Alamos Canyon near Los Alamos, NM	08313042	9.1	1970-71 1991-95
Rito de los Frijoles near Los Alamos, NM	08313300	8.9	1959-63
Rito de los Frijoles in Bandelier National Monument, NM	08313350	18.1	1963-69 1977-82 1983-96
Rio Grande at Cochiti, NM	08314500	14,600	1924-70
Santa Fe River at Monument Rock, near Santa Fe, NM	08315000	14	1910
Santa Fe River below Nichols Reservoir near Santa Fe, NM	08316505	--	1998-99
Santa Fe River above St. Francis Dr. at Santa Fe, NM	08316530	--	1998-99
Santa Fe River at Ricardo Road at Santa Fe, NM	08316535	--	1998-99
Santa Fe River above Cochiti Lake, NM	08317200	232	1970-99
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

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
Rio del las Vacas near Cuba, NM	08322000	--	1939-41
Rio Cebolla near Jemez Springs, NM	08322500	--	1939
Rio Guadalupe at Box Canyon near Jemez, NM	08323000	235	1938-42
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 Villa Del Oso at Albuquerque, NM	08329860	0.052	1976-98
Grant Line Arroyo at Albuquerque, NM	08329865	0.052	1987-91
Pino Arroyo at Ventura Blvd. at Albuquerque, NM	08329872	5.40	1990-2000
Hoffmantown Church Outlet No. 1 at Albuquerque, NM	08329873	0.859	1990-97
Hoffmantown Church Outlet No. 2 at Albuquerque, NM	08329874	0.413	1990-97
Cherry Hills Arroyo No. 1 at Albuquerque, NM	08329875	0.147	1990-97
Cherry Hills Arroyo No. 2 at Albuquerque, NM	08329876	0.796	1990-97
Pino Arroyo at Wyoming Blvd at Albuquerque, NM	08329877	5.80	1990-97
Taylor Ranch Drain at Albuquerque, NM	08329936	0.132	1978-98
Rio Grande near Alameda, NM	08329928	17,263	1989-95
Corrales Riverside Drain near Corrales, NM	08329930	--	1996-99
Corrales Main Canal Outflow at Albuquerque, NM	08329931	--	1996-99
Rio Grande at Rio Bravo Bridge near Albuquerque, NM	08330150	17,500	1991-95
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
Arroyo Del Coyote near Albuquerque, NM	08330565	35	1989-95
Arroyo Del Coyote at Mouth near Albuquerque, NM	08330567	39	1989-95
Tijeras Arroyo below Arroyo Del Coyote near Albuquerque, NM	08330569	121	1989-95
Tijeras Arroyo at Montessa Park near Albuquerque, NM	08330580	122	1987-95

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
Tijeras Arroyo below South Diversion Channel Inlet near Albuquerque, NM	08330800	--	1974-88
Albuquerque Riverside Drain near Isleta, NM	08330915	--	1997-99
Atrisco Riverside Drain at Isleta, NM	08330940	--	1997-99
Rio Grande near Isleta, NM	08331000	17,900	1925-29, 1936-38
Barr/Chical Diversion at Isleta, NM	08331105	--	1997-99
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
Abo Arroyo near Blue Springs, NM	08331660	242	1996-2000
Rio Grande near Bernardo, NM	08332000	19,230	1936-39, 1941-64
Lower San Juan Riverside drain near Bernardo, NM	08332030	--	1954-75
La Jara Creek near La Jara, NM	08332500	--	1932-33
Rio Puerco near Cabezon, NM	08333000	360	1943-51
Rio Puerco at Cabezon, NM	08333500	397	1944-51
Papers Wash near Star Lake Trading Post, NM	08334300	20.3	1978-82
Arroyo Chico near Guadalupe, NM	08340500	1,390	1943-86
Rio Puerco near Guadalupe, NM	08341000	1,860	1943
Bluewater Creek near Bluewater, NM	08342000	209	1912-19, 1927-72
San Mateo Creek near San Mateo, NM	08342600	75.6	1977-82
Arroyo del Puerto near San Mateo, NM	08342700	96.8	1980-82
Rio San Jose at Grants	08343000	1,020	1949-66, 1968-94
Grants Canyon at Grants	08343100	13	1961-95
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

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
Rio San Jose near Casa Blanca, NM	08348000	--	1936-41
Encinal Creek near Casa Blanca, NM	08348500*	6.19	1937-39
Laguna ditch at New Laguna, NM	08349000	--	1936-41
Paguate Creek near Laguna, NM	08349500	--	1937-41
Rio Paguate below Jackpile Mine near Laguna, NM	08349800	107	1976-93
Paguate Reservoir outlet near Laguna, NM	08350000	--	1940-41
Rio San Jose near Laguna, NM	08350500	3,040	1937-41, 1973-76
Mesita ditch near Laguna, NM	08351000	--	1936-41
Rio San Jose at Correo, NM	08351500	3,660	1943-94
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
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

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
Pecos River near San Jose, NM	08379000	539	1939-40
Tecolote Creek below Wright Canyon near El Porvenir, NM	08379187	5.42	1987-92
Tecolote Creek near San Pablo, NM	08379200	83	1960-65
South Fork Gallinas Creek near El Porvenir, NM	08380000	25	1911-20
Gallinas Creek at Montezuma, NM	08381000	87	1903, 1904-66
Storrie feeder canal near Las Vegas, NM	08381500	--	1949-52
Gallinas River near Lourdes, NM	08382000	313	1951-63
Pecos River near Fort Sumner, NM	08385500	5,600	1957-58, 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
Pecos River above Acme, NM	08385648	--	1992-2000
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	1,000	1930-31 1981-97
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 1981-97
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

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
Rio Penasco at Elk, NM	08397450	--	1910-11
Rio Penasco near Elk, NM	08397500	--	1911
Rio Penasco near Dunken, NM	08397600*	583	1956-62
Pecos River below McMillan Dam, NM	08401000	16,990	1906-09, 1910-11, 1939-40, 1946-88
Pecos River above Seven Rivers near Lakewood, NM	08401100	17,000	1974-87
Pecos River below Avalon Dam, NM	08404500	--	1940
Pecos River at Carlsbad, NM	08405000	8,100	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 BASIN			
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

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Period of record
TULAROSA VALLEY BASIN--Continued			
Indian Creek at Mouth, near Three Rivers, NM	08480900	10.9	1956-58
Rio Tularosa at Mescalero, NM	08481300	--	1910-11
Tularosa Creek near Bent, NM	08481500	120	1947-96
Rio Tularosa near Tularosa, NM	08482000	--	1938-47
Rio La Luz near La Luz, NM	08483000	30	1911-12
Rio Fresnal near Mountain Park, NM	08484000	44	1911-12
Rio La Luz at La Luz, NM	08484500	74	1910-13
Alamogordo-La Luz ditch at La Luz, NM	08485000	--	1934-49
Alamo Creek at Woods Ranch, near Alamogordo, NM	08485500	--	1931-37
Alamogordo water supply near Alamogordo, NM	08486000	--	1932-51
Tularosa Valley tributary near White Sands, NM	08486250	17.2	1965-74
Tularosa Valley tributary at White Sands, NM	08486260	21.0	1965-74
SALT CREEK BASIN			
Sacramento River near Sunspot, NM	08492900	12.8	1984-89
SAN JUAN BASIN			
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

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Period of record
SAN JUAN BASIN--Continued			
Chaco Wash at Chaco Culture National Monument, NM	09367800*	578	1976-90
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-
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
Chaco River near Waterflow, NM	09367950	4,350	1975-94
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, 1990-94
Puerco River near Church Rock, NM	09395350	193	1978-82, 1989-91
Puerco River at Gallup, NM	09395500*	558	1940-46, 1977-82
Puerco River near Manuelito, NM	09395630	990	1989-93
Whitewater Arroyo near Cheechilgeetho, NM	09395700	78.5	1964-67
GILA RIVER BASIN			
Gila River near Silver City, NM	09430000	1,600	1912-19
Sapello Creek below Lake Roberts, near Silver City, NM	09430150	78	1964-71
Gila River near Cliff, NM	09431000	2,435	1942-51
Trout Creek near Luna, NM	09442653	27.1	1968-86
Tularosa River above Aragon, NM	09442692	94	1966-96
San Francisco River near Alma, NM	09443000	1,546	1904-07, 1909-10, 1912-14, 1964-86
Whitewater Creek near Mogollon, NM	09443500	34	1909-23

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

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

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

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record
Dry Cimarron River near Guy, NM	07153500	545	c,s,t	1964-74
Canadian River near Hebron, NM	07199000	229	c	1966-81
Chicorica Creek near Yankee, NM	07199600	32.5		1975-79
Una de Gato Creek below Throttle Dam near Raton, NM	07201420	49.5	c,s	1975-84
Chicorica Creek near Hebron, NM	07202000	381	c	1975-81
Vermejo River near Dawson, NM	07203000	301	c,s	1964-84
Cimarron River below Eagle Nest Dam, NM	07206000	167	c,s	1975-84
Ponil Creek near Cimarron, NM	07207500	171	c	1981-95
Rayado Creek at Sauble Ranch, near Cimarron, NM	07208500	85	c	1981-95
Canadian River near Taylor Springs, NM	07211500	2,850	b,c,s	1966-75
Mora River at La Cueva, NM	07215500	173	c	1981-95
Conchas Canal below Conchas Dam, NM	07223300	--	c	1964-77
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
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 1994
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

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record
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 Pueblo De Taos below Los Cordovas, NM	08276300	380	b,c,t	1981; 1986-98
Embudo Creek at Dixon, NM	08279000	305	c	1970-97
Rio Grande above San Juan Pueblo, NM	08281100	10,550	c,m,s	1987-88
Willow Creek above Azotea Creek near Park View, NM	08284150	42	c,s	1973
Azotea Tunnel at Outlet near Chama, NM	08284160	--	c,s	1974-75
Willow Creek above Heron Reservoir near Park View, NM	08284200	112	c,s	1973-74
Horse Lake Creek above Heron Reservoir near Los Ojos, NM	08284300	0 45	c,s	1973
Willow Creek near Park View, NM	08284500	193	c,s	1962-65
Rio Chama below Heron Dam, NM	08284540	--	c,s	1973-74
El Vado Reservoir near Tierra Amarilla, NM	08285000	873	c	1973
Rio Chama Seep below El Vado Dam, NM	08285100	873	c	1973-74
Rio Chama below El Vado Dam, NM	08285500	877	c,s	1974
Rio Chama above Abiquiu Reservoir, NM	08286500	1,600	c,k,s,t	1963-85
Rio Chama below Abiquiu Dam, NM	08287000	2,147	c,k,s,t	1963-85
Rio Ojo Caliente at La Madera, NM	08289000	419	c	1976-77
Rio Grande at Santa Clara, NM	08291600		c,m,s	1987-94
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
Cochiti Lake near Cochiti Pueblo, NM	08317300		c,s	1981-98
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
Campus Wash at Albuquerque, NM	08329700	3.80	c,m,s	1991-94
Tijeras Arroyo near Albuquerque, NM	08330600	133	c	1979

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record
Rio Grande Conveyance Channel near Bernardo, NM	08331990	--	c,k,s,t	1962-75
Rio Grande near Bernardo, NM	08332000	19,230	c,s,t	1962-64
Bernardo Interior Drain near Bernardo, NM	08332050	--	c,s,t	1965-68
San Pablo Creek near Cuba, NM	08332700	12.8	c,s	1982
Papers Wash near Star Lake Trading Post, NM	08334300	c,m,s,		1978-82
Arroyo Chico near Guadalupe, NM	08340500	1,390	c,s	1978-86
Bluewater Lake near Bluewater, NM	08341400	201	c	1966-69
Rio San Jose at Grants, NM	08343000	1,020	c,s	1980
Rio Paguate below Jackpile Mine near Luguna, NM	08349800	107	c	1977-93
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 Conveyance Channel at San Marcial, NM	08358300	--	c,m,s,t	1954-94
Rio Grande below Elephant Butte Dam, NM	08361000	29,450		1975-82
Rio Grande below Caballo Dam, NM	08362500	30,700	c	1966-68
Rio Grande at Leasburg Dam, NM	08363500		b,c,m	1975-79
Tortugas Arroyo at Las Cruces, NM	08363700	20.7	c,s	1963-74
Rio Grande at Vinton Bridge near Anthony, TX	08363840	28,680	b,c,m,s	1975-78
Rio Grande below Old Fort Quintman, TX	08370500	31,990	c,m,s	1930-93
Pecos River near Pecos, NM	08378500	189	c	1970-73
Pecos River near Anton Chico, NM	08379500	1,050	b,c,m,s	1967-77
Gallinas Creek near Montezuma, NM	08380500	84	c	1964-67
Pecos River at Santa Rosa, NM	08383000	2650	c,t	1905-07 1959-98
Pecos River below Sumner Dam, NM	08384500	4,390	b,c,m,s,t	1962-66; 1972-87
Pecos River below Taiban Creek near Fort Sumner, NM	08385522	--	c,t	1937-98
Pecos River near Acme, NM	08386000	11,380	b,c,s,t	1937-98
Rio Ruidoso at Hollywood, NM	08387000	120	c	1963-67; 1987-97
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

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record
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
Black River at Harkey Crossing near Malaga, NM	08405400	343	c	1947-66
Pecos River below Red Bluff Dam, near Orla, TX	08410100		c,t	1962-63
Mimbres River at McKnight Damsite near Mimbres, NM	08476300	97.3	c,s	1967-72
Mimbres River at Mimbres, NM	08477110	184	b,c,m,s	1978-86
Tularosa Creek near Bent, NM	08481500	120	c	1963-95
Rio Blanco near Pagosa Springs, CO	09343000	58		1962-65
Rio Blanco at U.S. Highway 84 near Pagosa Springs, NM	09343400	--	c,s	1972-74
Navajo River above Chromo, CO	09344300	96.4	s	1962-65
Navajo River below Oso Diverson Dam near Chromo, CO	09344450	--	c,s	1972-75
Navajo River at Edith, CO	09346000	172	b,c,s	1969-74
San Juan River near Carracas, CO	09346400	1,230	b,c,s	1969-73
Piedra River near Arboles, CO	09349800	629	b,c,s	1969-73
Los Pinos River at La Boca, CO	09354500	510	b,c,s	1969-73
Canon Largo near Blanco, NM	09356565	1,700	c,m,s	1978-81
San Juan River at Bloomfield, NM	09357000	5,410	s,t	1962-64
San Juan River at Hammond Bridge near Bloomfield, NM	09357100	5,540	b,c,m,s	1978-81
Gallegos Canyon near Farmington, NM	09357250	290	c,m,s	1978-81
San Juan River above Animas River at Farmington, NM	09357300	5,800	c	1966-79
Animas River near Cedar Hill, NM	09363500	1,090	c,m,s,t	1943-45 1958-59 1969-73 1975; 1987-98
San Juan River at Farmington, NM	09365000	7,240	c,s,t	1962-82
La Plata River at Colorado-New Mexico State line	09366500	331	b,c,m,s	1970-73
La Plata River near Farmington, NM	09367500	583	c,s	1970-73, 1978-81
Shumway Arroyo near Fruitland, NM	09367555	62.8	b,c,m,s	1976; 1978-82
Shumway Arroyo near Waterflow, NM	09367561	73.8	b,c,m,s	1974-84; 1986

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record
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
San Juan River near Fruitland, NM	09367540	8,010	c	1978-95
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
Puerco River near Manuelito, NM	09395630	990	c,s	1989-93
Gila River near Gila, NM	09430500	1,864	c,s,t	1963-67
Mangas Creek below Mangas Springs, NM	09431100		c,m,s	1970-86
San Francisco River at Clifton, AZ	09445000	2,766	s	1963-67
Dry Beaver Creek near Rimrock, AZ	09505350	139	s	1964-65
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 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."

This report include 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 173 gaging stations and contents for 24 lakes and reservoirs; water quality for 37 gaging stations, 43 wells, and 11 partial-record stations and miscellaneous sites, and water levels at 136 observation wells. Also included are 84 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. One seepage investigation was 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, Information Services Center, Box 25286 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. published annually for each State.

These reports have an identification number consisting of the two-letter State beginning with water year 1975; data for streamflow, water quality, and groundwater were combined in reports 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-01-1." 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 Office of State Engineer,

New Mexico Interstate Stream Commission,

Pecos River Commission,

New Mexico State Highway and Transportation Department,

Canadian River Municipal Water Authority,

Costilla Creek Compact Commission,

Albuquerque Metropolitan Arroyo Flood Control Authority,

City of Albuquerque,

Ward Irrigation District,

City of Santa Rosa,

City of Raton,

Village of Ruidoso, and

New Mexico Environment Department, Surface Water Quality Bureau

Financial assistance for the collection of water-resources data published in this report was provided by the U.S. Army Corps of Engineers, by the Bureau of Reclamation, by the Bureau of Indian Affairs, and by the Bureau of Land Management,

Assistance in the form of services was provided by the Carlsbad Irrigation District. Organizations that provided data are recognized in the station description.

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.

The quantity of water in the hydrologic system, as evidenced by precipitation records, was generally well above normal throughout the State at the beginning of water year 2001. This trend continued through November before dropping to below normal at the end of calendar year 2001. Winter precipitation varied from well below normal to well above normal within the State.

For example, precipitation in March was approximately 400 percent of normal in Carlsbad, 44 percent of normal in Albuquerque, 240 percent of normal in Raton, and 124 percent of normal in Deming. Snowpack at the end of January was generally above normal. Specifically, snowpack water content was 97 percent of normal in the Rio Grande Basin, 133 percent of normal in the Pecos River Basin, and 93 percent of normal in the San Juan River Basin. Snowpack continued to be at high levels throughout the winter.

Precipitation, with a few exceptions, continued at below-normal levels from April through the summer months and through September. September precipitation was 32 percent of normal in Carlsbad, 41 percent of normal in Albuquerque, 21 percent of normal in Raton, and 79 percent of normal in Farmington.

The quantity of water stored in New Mexico's reservoirs often does not represent natural hydrologic conditions because operators of those reservoirs need to meet demands such as irrigation, flood control, legal compacts, and recreation. During periods of heavy storm activity, for example, reservoir operators can reduce the amount of water in storage. A review of water storage during water year 2001 indicates various trends. Storage at Brantley and Cochiti Reservoirs varied only slightly; storage at Brantley ranged from 1 to 2 percent of capacity, and Cochiti stayed at 10 percent of capacity.

Storage in other reservoirs however, represented operating schedules that resulted in maximum storage levels reached by May, then subsequently decreasing until the end of the water year in September. For example, storage in El Vado Reservoir began water year 2001 at 11 percent of capacity in October, peaked at 97 percent of capacity in May, and then ended the water year at 53 percent of capacity. In like manner, the combined storage in Sumner and Santa Rosa Reservoirs ranged from 5 percent of capacity in October to 13 percent of capacity in May to 6 percent of capacity in September. This trend in reservoir storage also occurred in Abiquiu, Navajo, and Conchas Reservoirs. Storage in Elephant Butte- Caballo increased and decreased at various times during water year 2001 in response to water demands.

Reservoir storage in most of the State's reservoirs at the end of water year 2001 generally was at lower levels than at the beginning of the water year. Specifically, the combined storage of 13 major reservoirs in the State decreased by 211,000 acre-feet during water year 2001, totaling 3,270,000 acre-feet by September 30, 2001. The combined capacity of these 13 reservoirs is 8,530,000 acre-feet.

Streamflow in New Mexico was generally below normal at the end of water year 2000. This trend continued into the beginning of water year 2001 with the notable exception of the Gila Basin where streamflow recorded at Gila River near Gila (station 09430500) was 372 percent of normal. As recorded at various index gaging stations, streamflows generally increased through the winter months ending in March.

For example, streamflow at Rio Grande below Taos Junction Bridge (station 08276500) was 72 percent of normal in October and increased to 91 percent of normal in March. In the same manner, streamflow at Pecos River near Pecos (station 08378500) was 85 percent of normal in October and increased to 153 percent of normal in March. After reaching maximums in the period from March to May, streamflows decreased at most of the index sites until the end of the water year 2001. Three exceptions to this trend were at Gila River near Gila (station 09430500), Rio Grande at Taos Junction Bridge (station 08276500), and Delaware River near Red Bluff (station 08408500).

Maximum discharges occurred early in water year 2001 at the Gila River station and varied above and below normal throughout the balance of the year. Streamflows at the Rio Grande station were generally below normal throughout the water year, and at the Delaware River station were well below normal the entire year. All index stations recorded flows well below normal at the end of water year 2001.

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-one selected wells in various parts of the State are equipped with continuous water-level recorders.

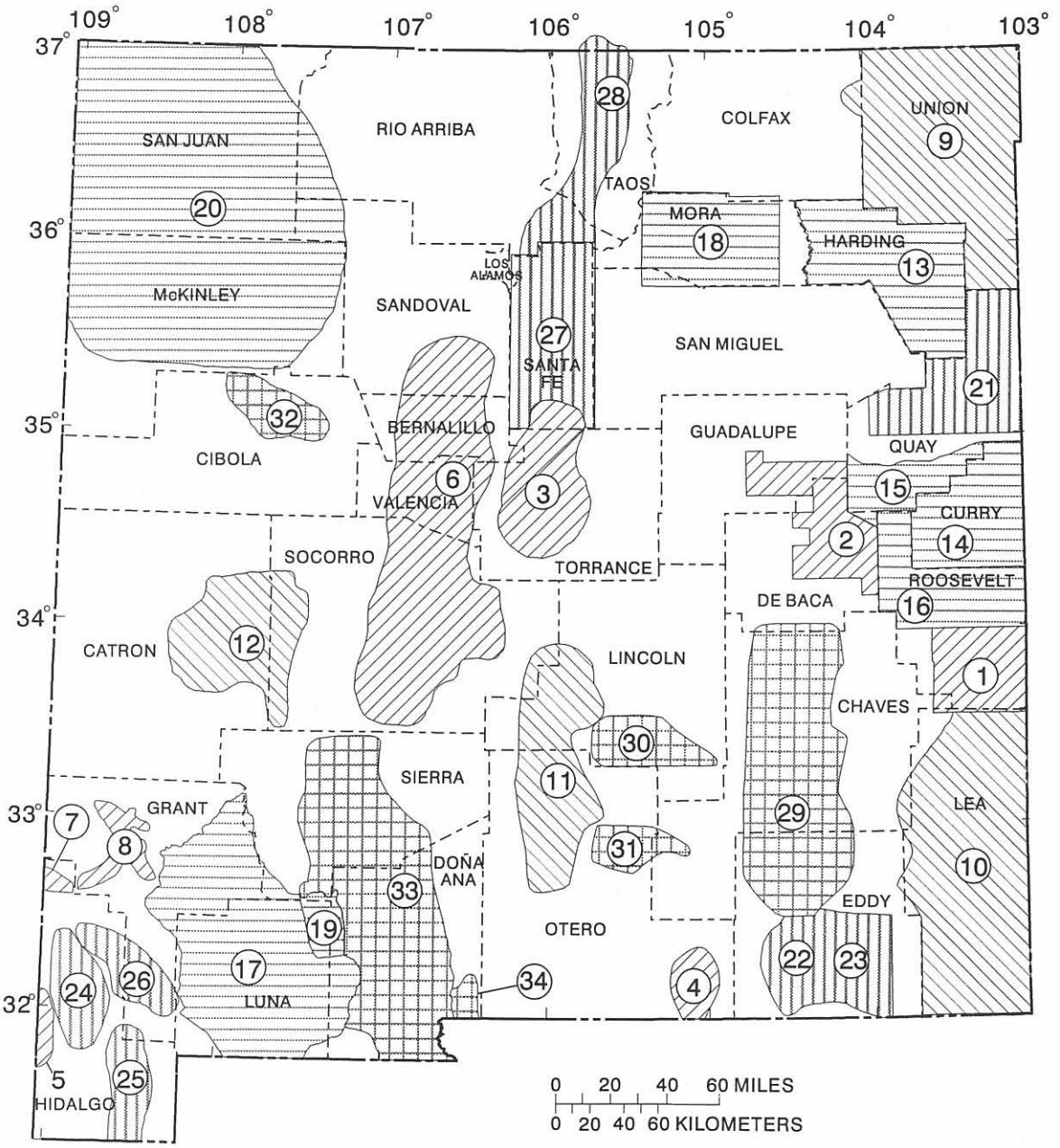
Hydrographs of water levels in wells (fig. 2) in the four quadrants of the State illustrate the water-level trends for the last 20 years. A decrease in ground-water withdrawals for agriculture and mining operations may be responsible for the general rise in water levels in the well in Cibola County since 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 Benchmark Network is a network of 50 sites in small drainage basins around the country. The purpose of the network is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare with conditions observed in basins more obviously affected by human activities.

Discharges for water year 2001 at four index streamflow-gaging stations compared to median annual discharge for water years 1971-2000 at the same stations are listed below:

Station number	Station name	Median annual discharge in acre-ft water years 1971-2000	Annual mean discharge in acre-ft water year 2001	2001 discharge as a percentage of median
08276500	Rio Grande below Taos Junction Bridge	571,900	469,100	82
08378500	Pecos River near Pecos	74,990	70,380	94
08408500	Delaware River near Red Bluff	3,805	513	13
09430500	Gila River near Gila	133,000	113,100	85



EXPLANATION

2000/2005

1. CAUSEY-LINGO
2. F T. SUMNER
3. ESTANCIA
4. SALT BASIN
5. SAN SIMON
6. MIDDLE RIO GRANDE
7. VIRDEN
8. GILA RIVER

2001/2006

9. NORTHERN HIGH PLAINS
10. LEA COUNTY
11. TULAROSA BASIN
12. SAN AGUSTIN PLAINS

1997/2002

13. HARDING COUNTY
14. CURRY COUNTY
15. HOUSE
16. PORTALES
17. MIMBRES BASIN
18. MORA
19. NUTT-HOCKETT
20. SAN JUAN BASIN

1998/2003

21. LOWER CANADIAN
22. CARLSBAD
23. CAPITAN REEF
24. ANIMAS
25. PLAYAS
26. LORDSBURG
27. SANTA FE COUNTY
28. UPPER RIO GRANDE

1999/2004

29. ROSWELL BASIN
30. RIO HONDO
31. RIO PEÑASCO
32. GRANTS-BLUEWATER
33. LOWER RIO GRANDE
34. HUECO

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

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

National Stream Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon.

This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment (NAWQA) Program; (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and to determine global cycles of carbon, nutrients, and other chemicals.

The National Atmospheric Deposition Program/ National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to accomplish the following objectives;

(1) To provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) To provide the mechanism to evaluate the effectiveness of the significant reduction in SO_2 emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) To provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO_2 and NO_x scheduled to begin in 2000.

Data from the network, as well as information about individual sites, are available through the world wide web at:

http://nadp.sws.uiuc.edu/

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; to provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and to provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 53 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and Federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key Federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies.

Additional information about the NAWQA Program is available through the world wide web at:

http://wwwrvares.er.usgs.gov/nawqanawqa_home.html

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 also are obtained at a number of precipitation stations. The purpose of collecting tritium data at 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 water year 2001, which began October 1, 2000, and ended September 30, 2001. 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 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 in this report, whether a stream site or well, is assigned a unique identification number. 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. Generally, the "downstream-order" system is used for surface-water stations, and the "latitude-longitude" system is used for wells and, in New Mexico, 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 with respect to the stream to which it is immediately tributary is indicated by an indention in the "List of Stations" in the front of this report. Each indention represents one rank. This downstream order and system of indention shows 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 in 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 all 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; for example, part "08" is the Rio Grande Basin.

Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of north latitude, the next seven digits denote degrees, minutes, and seconds of west longitude, and the last two digits (assigned sequentially) identify the order of sites if more than one is within a 1-second grid. This site-identification number, once assigned, is arbitrary and has no locational significance. In the rare instance where the initial determination of latitude and longitude is found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure below.)

Local Well Numbers

In New Mexico, 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

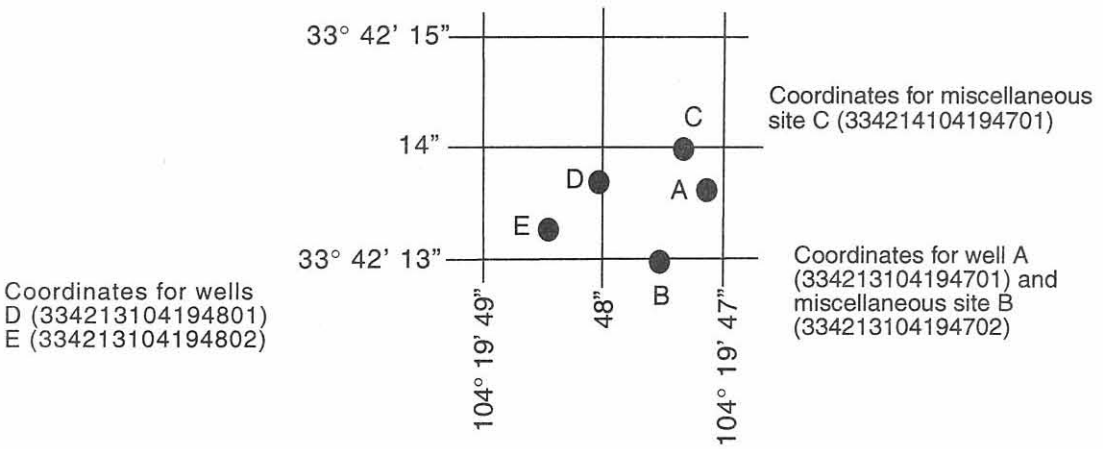


Figure 3.--System for assigning latitude-longitude numbers to wells, springs, and miscellaneous sites.

nearest 10-acre tract, and six digits will locate a site to the nearest 0.16-acre tract. This numbering system is illustrated in figure 4.

The well numbering system in Texas was developed by the Texas Water Development Board for use throughout the State. Under this system, each 1-degree quadrangle is given a number consisting of two digits. These are the first two digits in the well number. Each 1-degree quadrangle is divided into 7-1/2-minute quadrangles, which are given two digit numbers from 01 to 64. These are the third and fourth digits of the well number. Each 7-1/2-minute quadrangle is divided into 2-1/2-minute quadrangles, which are given a single-digit number from 1 to 9. This is the fifth digit of the well number. Finally, each well within a 2-1/2-minute quadrangle is given a two-digit number in the order in which it was inventoried, starting with 01. These are the last two digits of the well number. In addition to this seven-digit well number, a two-letter prefix is used to identify the county. An example of the Texas well-numbering system is provided in figure 5.

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 reservoir storage 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 table titles. Records of miscellaneous discharge measurements or of measurements from special studies may be considered as partial records, but they are presented separately in this report. Locations of all complete-record stations and partial-record stations for which data are given in this report are shown in figures 6 and 7.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals, with electronic data loggers that store stage values on computer cards at selected time intervals, or with satellite data collection platforms that transmit real time data at selected time intervals to office computers. Measurements of discharge are made with current meters using methods adopted 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.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. 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 determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage- discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

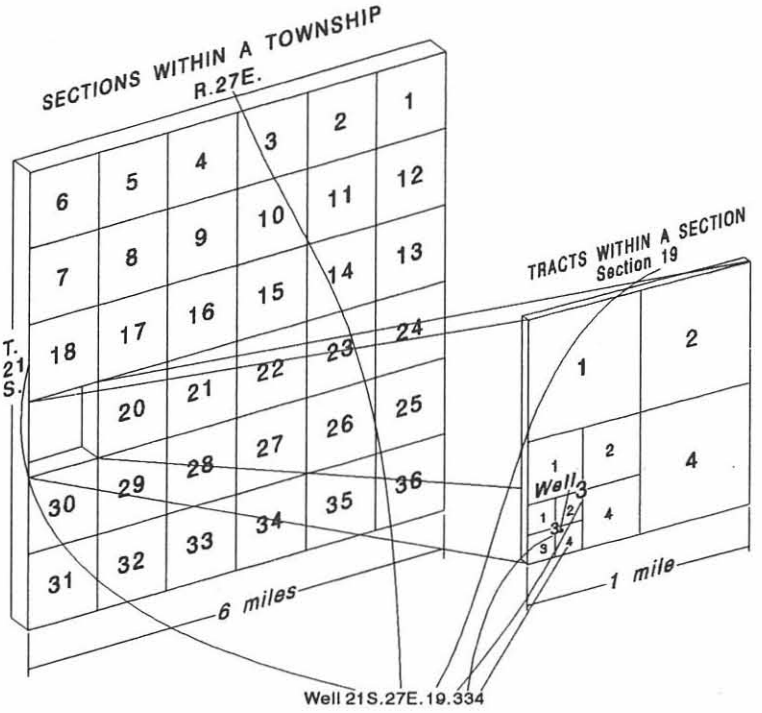


Figure 4.--New Mexico well-numbering system.

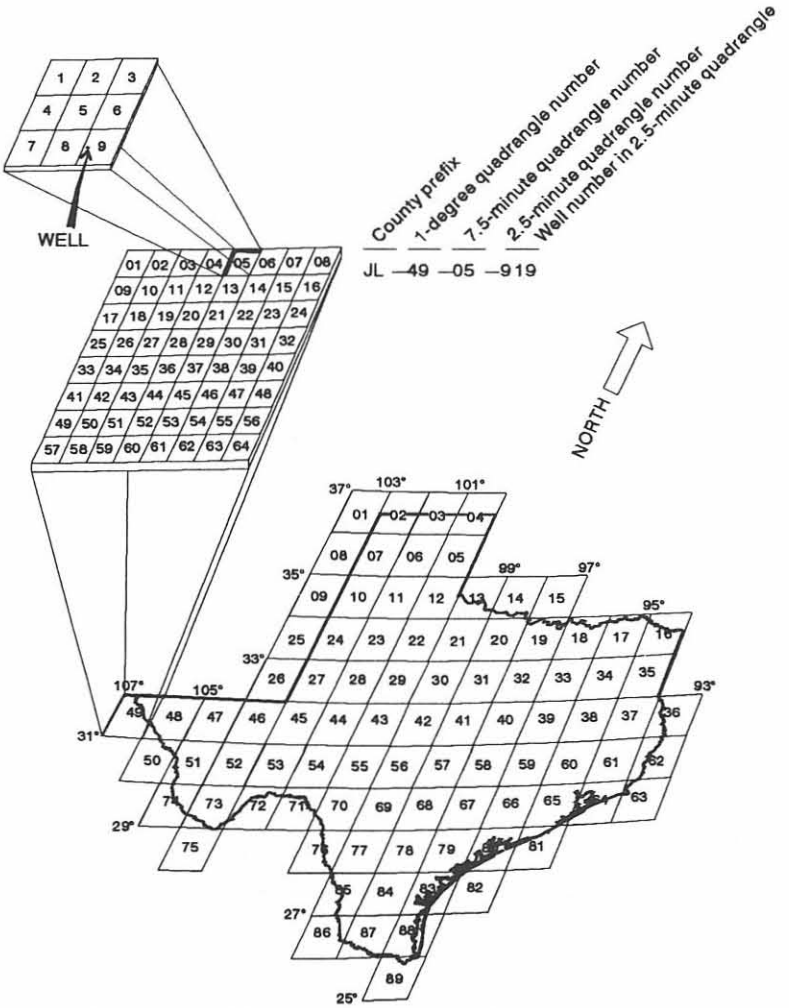


Figure 5.--Texas well-numbering system.

At some streamgaging stations, the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

In computing records of lake or reservoir contents, it is necessary to have available (from surveys) curves or tables defining the relationship of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes are determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly incorrect as the lapsed time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

For some gaging stations, there are periods when no gage-height record is obtained, or the recorded gage height is so incorrect 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 from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily discharge values are identified in station records is included in sections "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

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

The records published for each continuous-record surface-water discharge station (gaging station) consist of four parts: the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration; and a hydrograph.

Station manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; 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 that follow clarify information presented under the various headings of the station description.

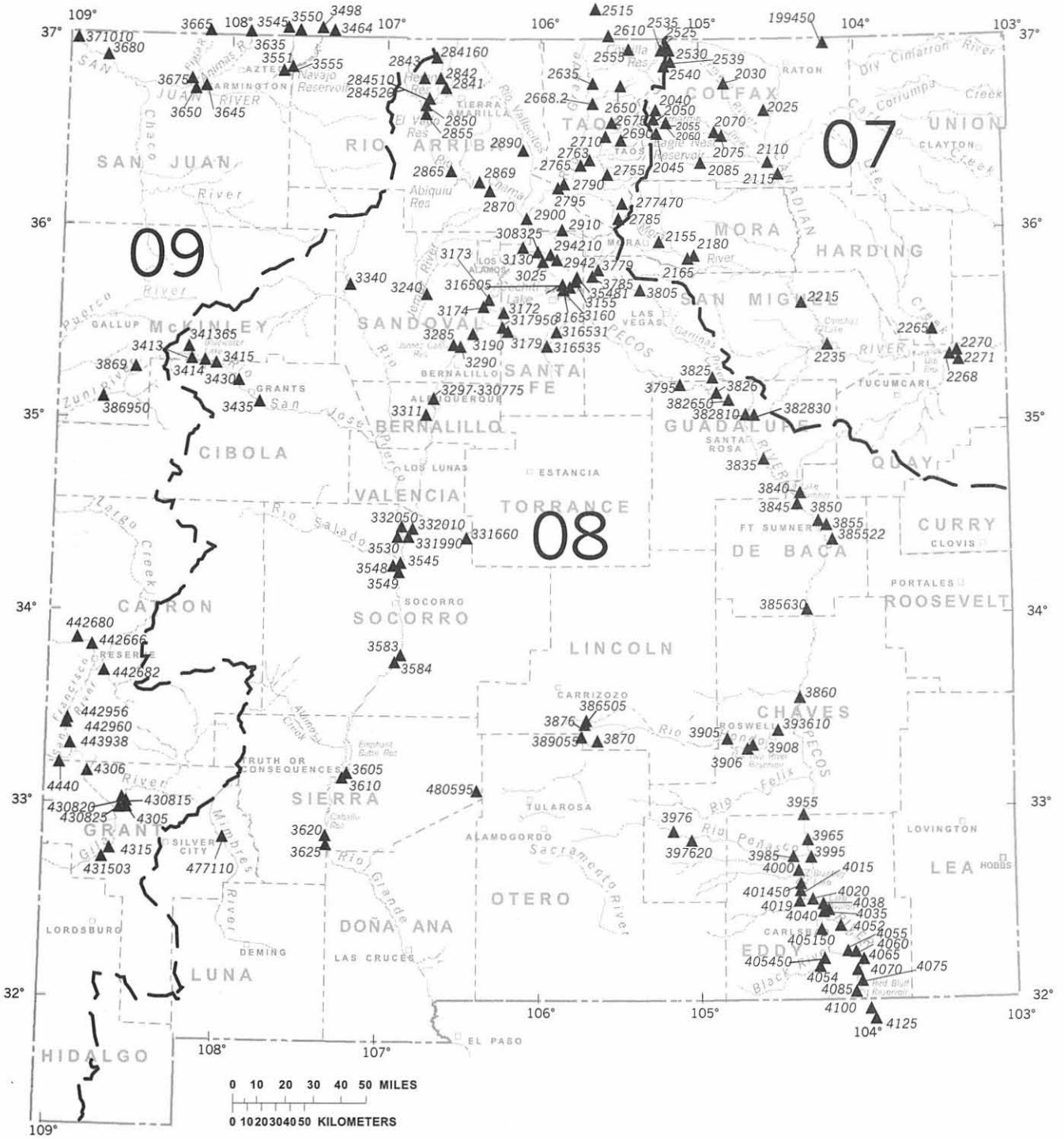
LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages were determined by 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. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which records have been published 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 flow at it can reasonably be considered equivalent to flow at the present station.

REVISED RECORDS.--Because of new information, published records 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



EXPLANATION

07 LOWER MISSISSIPPI RIVER BASIN NUMBER

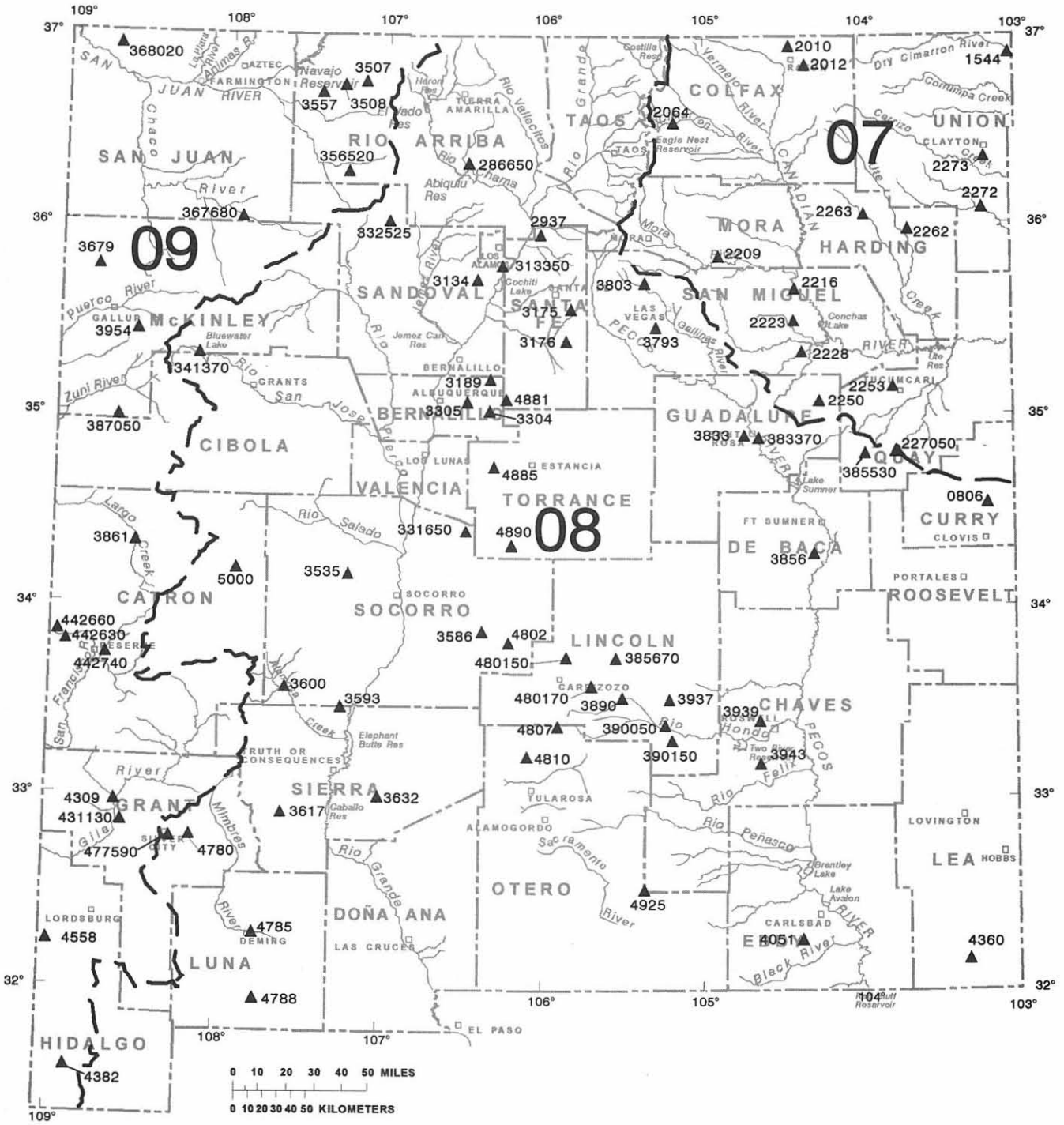
08 WESTERN GULF OF MEXICO BASIN NUMBER

09 COLORADO RIVER BASIN NUMBER

— — RIVER BASIN BOUNDARY

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

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



U.S. Geological Survey base

EXPLANATION

07 LOWER MISSISSIPPI RIVER BASIN NUMBER

08 WESTERN GULF OF MEXICO BASIN NUMBER

09 COLORADO RIVER BASIN NUMBER

— — RIVER BASIN BOUNDARY

477590▲ GAGING STATION AND NUMBER--

Number by symbol is abbreviated station number. Complete national station number is: 08 477590

Basin number + station number

Figure 7.--Location of partial-record stations.

heading.

REMARKS.--All periods of estimated daily discharge will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a REMARKS paragraph is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph also is used to present information relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and 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 U.S. Geological Survey by a cooperating organization are identified here.

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.

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 (address given on the back of the title page of this report) to determine if the published records were revised after the station was discontinued. Of course, if the data for a discontinued station were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data always is accompanied by revision of the corresponding data in computer storage.

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

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, AND EXTREMES FOR CURRENT YEAR have been deleted and the information contained in these paragraphs is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph. No changes have been made to the data presentations of lake contents.

Data table of daily mean values

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

Statistics of monthly mean data

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

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "WATER YEARS _____-_____," will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the

station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

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

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

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

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

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

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

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

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

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

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

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

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

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

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

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

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

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

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

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

Data collected at partial-record stations follow the information for continuous-record sites. The tables of partial-record stations are followed by listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage of those events. Those measurements and others collected for some special reason are called miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote (e--Estimated) or 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 interpretation 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 their true values; "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 less than 1 ft^3/s; to the nearest tenth between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures for more than 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. No rounding rules apply to discharges listed for partial-record stations and miscellaneous sites. Listed discharges are those actually computed.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff because of the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation from artificial causes, or to other factors. For such stations, figures for cubic feet per second per square mile and for runoff, in inches, are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. 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 Records Available

The National Water Data Exchange (NAWDEX), U.S. Geological Survey, Reston, VA 20192, maintains an index of records of discharge collected by other agencies but not published by the Geological Survey. Information on records at specific sites can be obtained from that office upon request.

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables is on file in the New Mexico District Office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained at the address given on the back of the title page of this report.

Records of Surface-Water Quality

Records of surface-water quality in this report represent a variety of data types and measurement frequencies. Whenever possible, records of surface-water quality are obtained at or near streamgaging stations because interpretation of surface-water quality and seasonal variation is enhanced by knowledge of corresponding discharge data. Locations of surface-water-quality stations are shown in figure 8.

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 water-quality data are collected systematically over a period of years, but frequency of sampling usually is less than quarterly. A miscellaneous sampling site is a location where samples are collected one time or intermittently to provide better areal coverage for defining water-quality conditions over a broad area in a river basin.

A distinction needs to be made between "continuing records", as used in reference to data for continuing-record stations, and "continuous record," which refers to a continuous graph over time or a series of discrete values recorded at short time intervals on a paper tape. Some records of water quality, such as temperature and specific

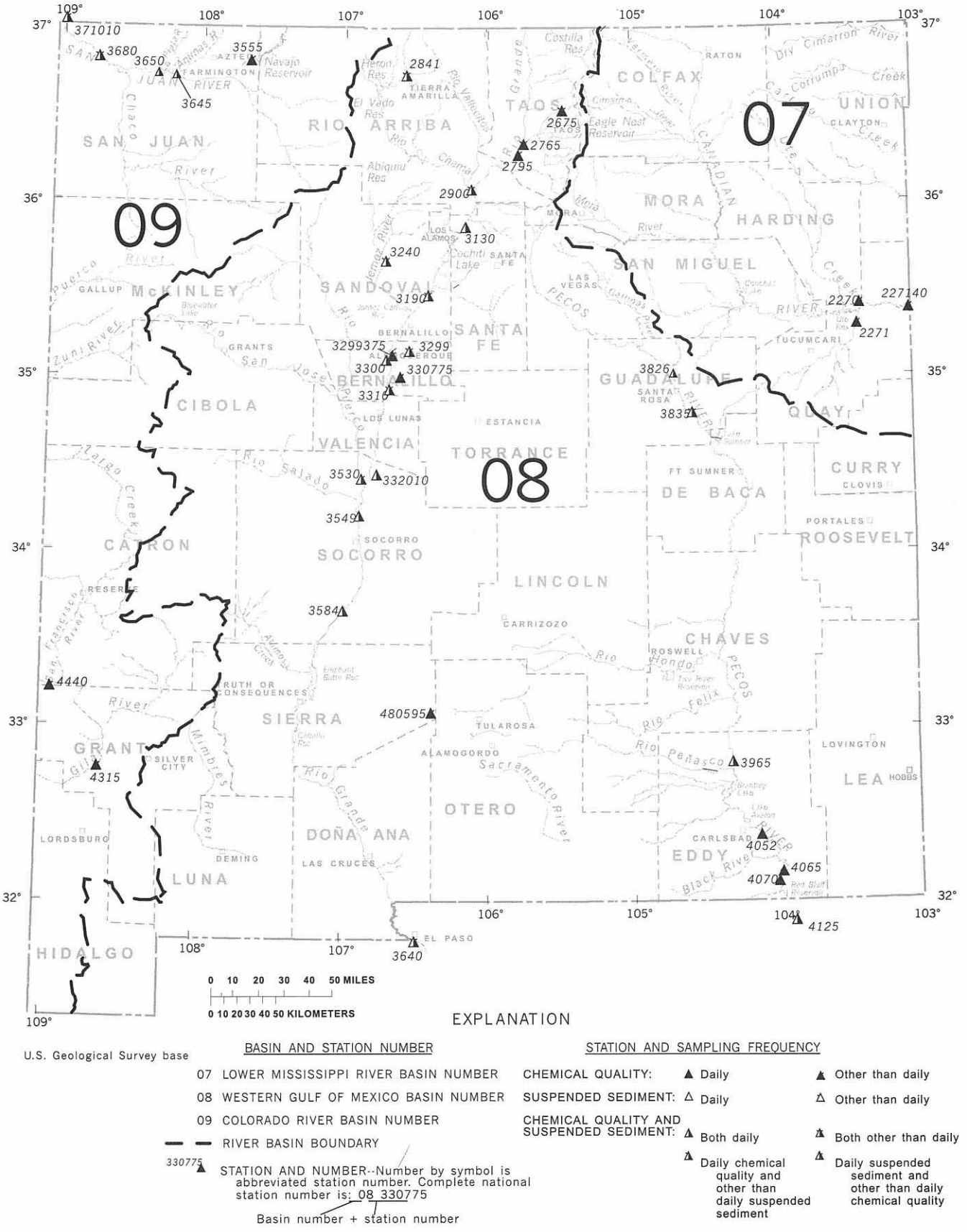


Figure 8.--Location of active surface-water-quality **gaging stations.**

conductance, may be obtained through continuous recordings; however, most water-quality data are obtained on a monthly or less frequent basis.

On site Measurements and Sample Collection

When obtaining water-quality data, a major concern is assuring that on site water-quality measurements and the samples collected for laboratory analysis are representative of the actual quality of the water. Measurements such as water temperature, pH, and dissolved oxygen are made onsite when the samples are collected because of the potential for significant change with time. To assure that measurements made in the laboratory also represent the actual environmental concentrations of constituents, prescribed procedures need to be followed in collection and processing of samples. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigation," (TWRI) Book 1, Chap. D2; Book 3, Chap. A1, A3, and A4; and Book 9, Chap. A1-A9. All of these references are listed under "PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS," which appears at the end of the introductory text. Also, detailed information on collecting, treating, and shipping samples may be obtained from other references and from the New Mexico 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 Special Networks and Programs) 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 sampler.

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 a 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 water-quality stations equipped with electronic monitors and digital recorders, the record consists of a 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 of the individual hourly values (unit values) may be obtained from the New Mexico District Office.

Water Temperature

Water temperatures are measured at water-quality stations at the time of sampling. In addition, water temperatures are taken at the time of discharge measurements at streamgaging stations. Water temperatures measured at the time of water-discharge measurements are on file in the New Mexico District Office.

Sediment

Suspended-sediment concentrations are determined from samples collected using depth-integrating samplers. Samples usually are obtained from several verticals in the cross section. At daily sediment stations, daily samples may be obtained from a single vertical and a coefficient applied to determine the mean concentration in the cross section. Daily mean suspended-sediment concentrations are computed using sample concentrations and the continuous streamflow record according to methods described in TWRI Book 3, Chap. C3. Daily suspended-sediment discharge then is computed as the product of stream discharge times the daily mean concentration times a unit conversion factor of 0.0027.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been 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 was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were 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 were 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 suspended-sediment concentration and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

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

Laboratory Analyses

Samples for indicator bacteria are analyzed locally. Samples for suspended sediment are analyzed at the U.S. Geological Survey laboratory in Albuquerque, New Mexico. Samples for all other constituents are analyzed at the Geological Survey National Water-Quality Laboratory in Arvada, Colorado. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1 and C3. Methods used by the National Water-Quality Laboratory are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; and Book 5, Chap. A1, A3, and A4.

In March 1989, the National Water-Quality Laboratory identified a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period between 1982 and 1989.

New protocols have been established by the U.S. Geological Survey for the collection and processing of surface-water samples that are analyzed for dissolved inorganic constituents[1]. These protocols are designed to produce trace-element data that are free of potential contamination associated with sample collection and filtration procedures. Because of the very low concentrations of some trace constituents in the environment, special precautions are necessary to protect the sample from the introduction of trace constituents during processing that could lead to a positive bias in reported concentrations. The protocols have been tested to assure reliable results at the microgram per liter (parts per billion) level. Dissolved trace-element data published prior to implementation of the protocols in 1994 may have a potential positive bias ranging from negligible to several micrograms per liter, depending on the procedures and sampling equipment used at the site.

The USGS National Water Quality Laboratory collects quality-control data on a continuing basis to evaluate selected analytical methods to determine long-term method detection levels (LT-MDL's) and laboratory reporting levels (LRL's). These values are re-evaluated each year on the basis of the most recent quality-control data and, consequently, may change from year to year.

This reporting procedure limits the occurrence of false positive error. The chance of falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is not present is 1 percent or less. Application of the LRL limits the occurrence of false negative error. The chance of falsely reporting a non-detection for a sample in which the analyte is present at a concentration equal to or greater than the LRL is 1 percent or less.

Accordingly, concentrations are reported as <LRL for samples in which the analyte was either not detected or did not pass identification. Analyses that are detected at concentrations between the LT-MDL and LRL and that pass identification criteria are estimated. Estimate concentrations will be noted with a remark code of "E". These data should be used with the understanding that their uncertainty is greater than that of data reported without the "E" remark code.

Data Presentation

Water-quality records collected at a streamgaging station are published immediately following the daily discharge record. Station number and name are the same for both records. Where a daily discharge record is not available or where the location of the water-quality station differs significantly from that of the nearby streamgaging station, the water-quality record is published with its own station number and name in the standard downstream-order sequence.

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, cooperating agencies, and extremes for parameters measured on a daily basis. Tables of chemical, physical, biological, and radiochemical data obtained at a frequency less than daily are presented first. Tables of daily values of specific conductance, water temperature, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the streamgaging station, neither the LOCATION nor

[1]Horowitz, A.J., Demas, C.R., Fitzgerald, K.K., Miller, T.L., and Rickert, D.A., 1994, U.S. Geological Survey Protocol for the Collection and Processing of Surface-Water Samples for the Subsequent Determination of Inorganic Constituents in Filtered Water: U.S. Geological Survey Open-File Report 94-539, 57 p.

the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuing 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 monitor, 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 for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made in the U.S. Geological Survey's distributed data system, NWIS, and subsequently to its web-based National data system, NWISWeb [http://water.usgs.gov/nwis/nwis]. 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 NWIS or NWISWeb to ensure the most recent updates. Updates to NWISWeb are currently made on an annual basis.

Remark Codes

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

PRINTED OUTPUT	REMARK
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 acceptable 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
V	Analyte was detected in both the environmental sample and the associated blanks.

Water Quality-Control Data

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this district are described in the following section. Procedures have been established for the storage of water quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples.

Blank samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytic of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this district are:

Field blank - a blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank - a blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank - a blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank - a blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank - a blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank - a blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank - a blank solution that is treated with the sampler preservatives used for an environmental sample.

Reference samples

Reference material is a solution or material prepared by a laboratory whose composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. There are many types of replicate samples possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are: sequential samples - a type of replicate sample in which the samples are collected one after the other, typically over a short time and, split samples a type of replicate sample in which a sample is split into sub samples contemporaneous in time and space.

Spike samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

Dissolved Trace-Element Concentrations

*NOTE.--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (ug/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the ug/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994.

Change in National Trends Network Procedures

*NOTE.--Sample handling procedures at all National Trends Network stations were changed substantially on January 1, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special intercomparison study is available from the NADP/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-970-5643).

Records of Ground-Water Levels

Only selected water-level data from the New Mexico 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 more important aquifers. Locations of the observation wells in this network in New Mexico are shown in figure 9.

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

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

alphanumeric number derived from the township-range location of the well.

Water-level records are obtained from direct measurements using a steel tape or from the graph or digital water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (lsd). 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 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 of 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 to a tenth of a foot or a larger unit.

Data Presentation

Each well record consists of two parts, the station description and 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) The 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 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.

Publications

Publication of ground-water level data for the United States in water-supply papers was begun by the U.S. Geological Survey in 1935. From 1935 through 1939, a single water-supply paper for each year covering the entire nation was issued (Water-Supply Papers 777, 817, 840, 845, and 886). From 1940 through 1974, separate water-supply papers were issued for 6 sections of the United States. Information about reports and other data on ground water in

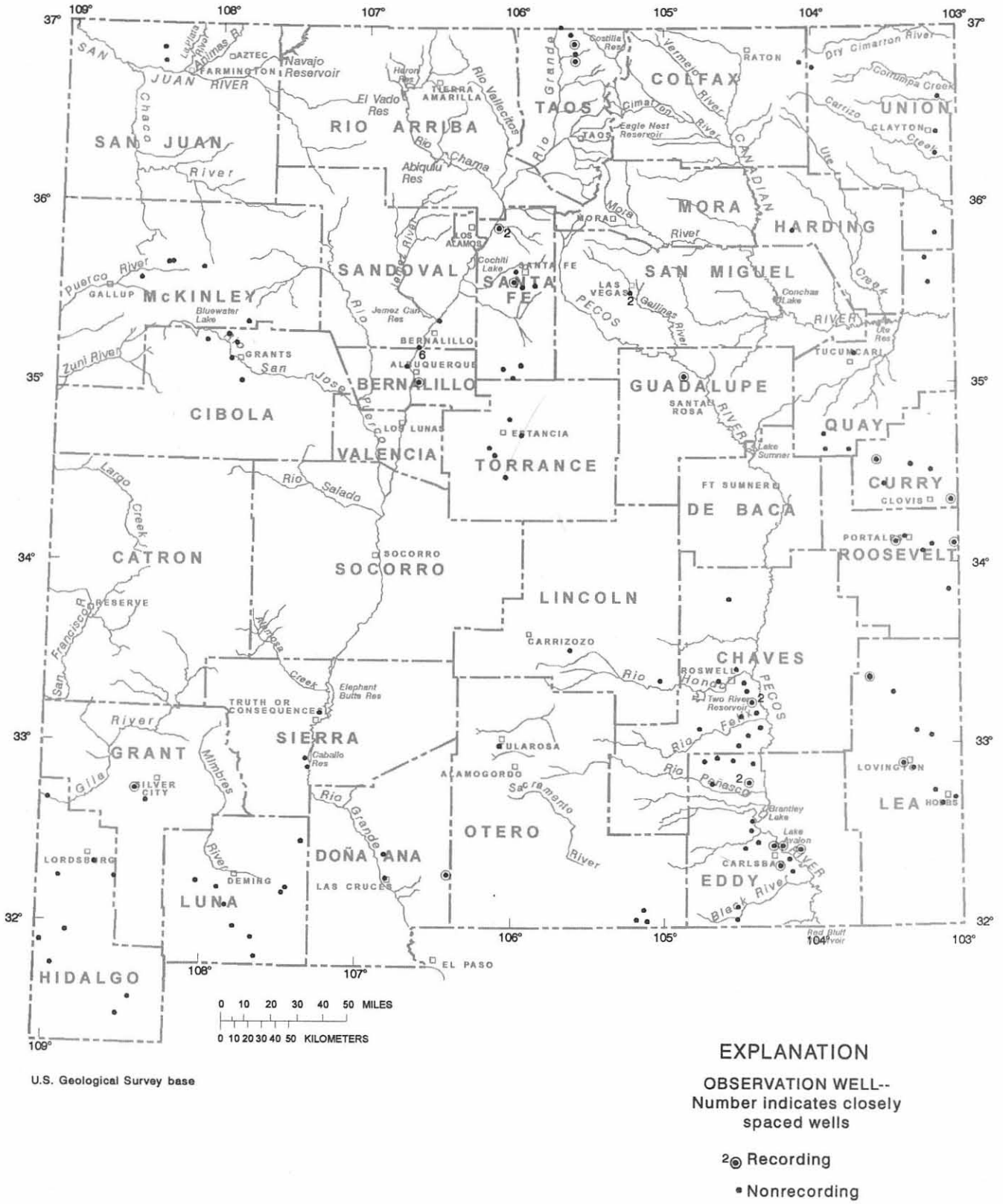


Figure 9.--Location of observation wells.

New Mexico may be obtained from the New Mexico District Office.

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 USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the world wide web (WWW). These data may be accessed at: http:/water.usgs.gov

Some water-quality and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on magnetic tape or 3-1/2 inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division District Offices. (See address on the back of the title page.)

DEFINITION OF TERMS

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

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

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, 325,851 gallons, or 1,233 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 measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

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.

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

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

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters.

Cubic foot per second per square mile [CFSM, $(ft^3/s)/mi^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.

Inch (IN., in.) as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were uniformly distributed on it.

Aroclor is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type and the last two digits represent the weight percent of the hydrogen substituted chlorine.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, 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. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that 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 plus or minus 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 warm-blooded 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 plus or minus 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 in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 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.

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis, Streptococcus feacium, Streptococcus avium,* and their variants.

Escherichia coli (E. coli) are bacteria present in the intestine and feces of warm-blooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium. Their concentrations are expressed as number of colonies per 100 mL of sample.

Base flow is flow in a channel sustained by groundwater discharge in the absence of direct runoff.

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

Benthic organisms (invertebrates) are the group of animals inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria,

fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

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 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. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

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 is 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 ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass.

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

Biomass pigment ratio is an indicator of the total proportion of periphyton which are autotrophic (plants). This is also called the Autotrophic Index.

Bottom material: See "Bed material."

Cells/volume refers to the number of plankton cells or natural units counted using a microscope and grid or counting cell. Results are generally reported as cells or units per milliliter.

Cells volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements on cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

sphere $4/3\ \pi r^3$ cone $1/3\ \pi r^3 h$ cylinder $\pi r^3 h$.

From cell volume, total algal biomass expressed as biovolume ($\mu m^3/mL$) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes over all species.

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 BOD 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.

Colloid is any substance with particles in such a fine state of subdivision dispersed in a medium (for example, water) that they do not settle out; but not in so fine a state of subdivision that they can be said to be truly dissolved.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases the water level can rise above the ground surface, yielding a flowing well.

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.

Continuous-record station is a site that meets either of the following conditions:

1. Stage or streamflow is recorded at some interval on a continuous basis. The recording interval is usually 15 minutes, but may be less or more frequent.
2. Water-quality, sediment, or other hydrologic measurements are recorded at least daily.

Control designates a feature in the channel downstream from a gaging station that physically influences the water-surface elevation and thereby determines the stage-discharge relation at the station. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, 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 saltwater.

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second, 448.8 gallons per minute, or 0.02832 cubic meters per second.

Cubic foot per second-day (CFS-DAY, Cfs-day, [(ft^3/s)/d]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, 646,317 gallons, or 2,447 cubic meters.

Daily record is a summary of streamflow, sediment, or water-quality values computed from data collected with sufficient frequency to obtain reliable estimates of daily mean values.

Daily record station is a site for which daily records of streamflow, sediment, or water-quality values are computed.

Datum, as used in this report, is an elevation above mean sea level to which all gage height readings are referenced.

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or flow, is the volume of water (or more broadly, volume of fluid including solid- and dissolved-phase material), that passes a given point in a given period of time.

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

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

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

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

Dissolved oxygen (DO) content of water in equilibrium with air is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved solids, with small temperature changes having the more significant offset. Photosynthesis and respiration may cause diurnal variations in dissolved-oxygen concentration in water from some streams.

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 that 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 0.4926 to reflect the change. Alternatively, alkalinity concentration (as mg/L $CaCO_3$) can be converted to carbonate concentration by multiplying by 0.60.

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

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

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 site on a stream is that area, measured in a horizontal plane, that has a common outlet at the site for its surface runoff. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth's surface that is occupied by a drainage system with a common outlet for its surface runoff (see "Drainage area").

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue.

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is not

exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is the elevation of the zero point of the reference gage from which gage height is determined as compared to sea level (see "Datum"). This elevation is established by a system of levels from known benchmarks, by approximation from topographic maps, or by geographical positioning system.

Gage height (G.H.) is the water-surface elevation referenced to the 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 site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Ground-water level is the elevation of the water table or another potentiometric surface at a particular location.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. *See NOAA web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Hydrologic benchmark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a benchmark station may be used to separate effects of natural from human-induced changes in other basins that have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped benchmark basin.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the U.S. Geological Survey. 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.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation

$$I = I_o e^{-\lambda L} ,$$

where I_o is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light attenuation coefficient is defined as

$$\lambda = -\frac{1}{L}\log_e \frac{I}{I_o} .$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. *See NOAA web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that are usually arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

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

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

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

Micrograms per kilogram (UG/KG, µg/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter.

Microsiemens per centimeter (US/CM, µS/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent 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.

Miscellaneous site, or miscellaneous station, is a site where streamflow, sediment, and/or water-quality data are collected once, or more often on a random or discontinuous basis.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of 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. *See NOAA web site: http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88*

Nekton are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of Formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

Open or screened interval is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediments. May be reported as dissolved organic carbon (DOC), suspended organic carbon (SOC), or total organic carbon (TOC).

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 area habitat, usually square meter (m^2), acre, or hectare. 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 milliliter (mL) or liter (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.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter code is a 5-digit number used in the U.S. Geological Survey computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method utilizes the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, Sedigraph) 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 the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	0.00024 - 0.004	Sedimentation
Silt	0.004 - 0.062	Sedimentation
Sand	0.062 - 2.0	Sedimentation/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 matter 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 or **percent of total** 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, weight, or volume.

Periodic station is a site where stage, discharge, sediment, chemical, or other hydrologic measurements are made one or more times during a year, but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed "acidic," and solutions with a pH greater than 7 are termed "basic." Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

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 is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL of sample).

Phytoplankton is 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 (*Cyanophyta*) 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.

Euglenoids (*Euglenophyta*) are a group of algae that are usually free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark.

Fire algae (*Pyrrhophyta*) are a group of algae that are free-swimming unicells characterized by a red pigment spot.

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 is 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 (PCB's) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCN's) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCB's) and have been identified in commercial PCB preparations.

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 (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m^2/time)] for periphyton and macrophytes or per volume [mg C/(m^3/time)] for phytoplankton. Carbon method defines 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.

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m^2/time)] for periphyton and macrophytes or per volume [mg O/(m^3/time)] for phytoplankton. Oxygen method defines 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.

Radioisotopes are isotopic forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

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 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.

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or non-exceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day 10-year low flow ($7Q_{10}$) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the non-exceedances of the $7Q_{10}$ occur less than 10 years after the previous non-exceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous non-exceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak

flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

River mile is the distance of a point on a river measured in miles from the river's mouth along the low-water channel.

River mileage is the linear distance along the meandering path of a stream channel determined in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council.

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

Sea level refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929. *See: http://www.co-ops.nos.noaa.gov/glossary/gloss_n.html#NGVD*

Sediment is solid material that is transported by, suspended in, or deposited from water. It originates mostly from disintegrated rocks; it also 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 or very close to the bed. In this report, bed load is considered to consist of particles in transit from the bed to an elevation equal to the top of the bed-load sampler nozzle (usually within 0.25 ft of the streambed).

Bed-load discharge (tons per day) is the quantity of sediment moving as bed load, reported as dry weight, that passes a cross section in a given time.

Suspended sediment is the sediment that 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). The entire sample is used for the analysis.

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

Suspended-sediment discharge (tons/day) is the quantity of sediment moving in suspension, reported as dry weight, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027.

Suspended-sediment load is a term that refers to material in suspension. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment 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, reported as dry weight, that passes a cross section in a given time.

Total sediment load or total load is a term that refers to the total sediment (bed load plus suspended-sediment load) that is in transport. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with total sediment discharge.

Seven-day 10-year low flow (7Q10, $7Q_{10}$) is the minimum flow averaged over 7 consecutive days that is expected to occur on average, once in any 10-year period. The 7Q10 has a 10-percent chance of occurring in any given year.

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.

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 from 55 to 75 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.

Stable isotope ratio (per MILL/MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific waters, to evaluate mixing of different waters, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage: See "Gage height."

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

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.

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.

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

Surface area of a lake or impoundment is that area encompassed by the boundary of the lake or impoundment as shown on USGS topographic maps, or on other available maps or photographs. The computed surface areas reflect the water levels of the lakes or impoundments at the times when the information for the maps or photographs was obtained.

Surficial bed material is the top 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 suspended-sediment sample that is retained on a 0.45-micrometer 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 are 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 suspended-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. 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.

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

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

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae

Genus	*Hexagenia*
Species	*Hexagenia limbata*

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 is 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, tons/d) is the rate representing a mass of 1 ton of a constituent in streamflow passing a cross section in 1 day. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the total amount of a given constituent in a representative 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 suspended-sediment mixture and that the analytical method determined all of the constituent in the sample.)

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, 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 length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total recoverable is the amount of a given constituent that is in solution after a representative 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 are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Turbidity is a measurement of the collective optical properties of a water sample that cause light to be scattered and absorbed rather than transmitted in straight lines; the higher the intensity of scattered light, the higher the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU) or Formazin turbidity units (FTU) depending on the method and equipment used.

Volatile organic compounds (VOC's) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOC's are manmade chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water level is the water-surface elevation or stage of the free surface of a body of water above or below any datum (see "Gage height"), or the surface of water standing in a well, usually indicative of the position of the water table or other potentiometric surface.

Water table is the surface of a ground-water body at which the water is at atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which is found the water table.

Water year in U.S. 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, 2000, is called the "2000 water year."

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.)

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.

Well is an excavation (pit, hole, tunnel), generally cylindrical in form and often walled in, drilled, dug, driven, bored, or jetted into the ground to such a depth as to penetrate water-yielding geologic material and allow the water to flow or to be pumped to the surface.

Wet weight refers to the weight of animal tissue or other substance including its contained water.

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

TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

The USGS 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 USGS, Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be made in the form of a 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 mention the "U.S. Geological Survey Techniques of Water-Resources Investigations."

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

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, chap. 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, chap. D2. 1976. 24 pages.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

2-D1. *Application of surface geophysics to ground-water investigations*, by A.A. R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS–TWRI book 2, chap. D1. 1974. 116 pages.

2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F.P. Haeni: USGS–TWRI book 2, chap. D2. 1988. 86 pages.

Section E. Subsurface Geophysical Methods

2-E1. *Application of borehole geophysics to water-resources investigations*, by W.S. Keys and L.M. MacCary: USGS–TWRI book 2, chap. E1. 1971. 126 pages.

2-E2. *Borehole geophysics applied to ground-water investigations*, by W.S. Keys: USGS–TWRI book 2, chap. E2. 1990. 150 pages.

Section F. Drilling and Sampling Methods

2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W.E. Teasdale: USGS–TWRI book 2, chap. F1. 1989. 97 pages.

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

3-A1. *General field and office procedures for indirect discharge measurements*, by M.A. Benson and Tate Dalrymple: USGS–TWRI book 3, chap. A1. 1967. 30 pages.

3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M.A. Benson: USGS–TWRI book 3, chap. A2. 1967. 12 pages.

3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS–TWRI book 3, chap. A3. 1968. 60 pages.

3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H.F. Matthai: USGS-TWRI book 3, chap. A4. 1967. 44 pages.

3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS–TWRI book 3. chap. A5. 1967. 29 pages.

3-A6. *General procedure for gaging streams*, by R.W. Carter and Jacob Davidian: USGS–TWRI book 3, chap. A6. 1968. 13 pages.

3-A7. *Stage measurement at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A7. 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A8. 1969. 65 pages.

3-A9. *Measurement of time of travel in streams by dye tracing*, by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS–TWRI book 3, chap. A9. 1989. 27 pages.

3-A10. *Discharge ratings at gaging stations*, by E.J. Kennedy: USGS–TWRI book 3, chap. A10. 1984. 59 pages.

3-A11. *Measurement of discharge by the moving-boat method*, by G.F. Smoot and C.E. Novak: USGS–TWRI book 3, chap. A11. 1969. 22 pages.

3-A12. *Fluorometric procedures for dye tracing*, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS–TWRI book 3, chap. A12. 1986. 34 pages.

3-A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS–TWRI book 3, chap. A13. 1983. 53 pages.

3-A14. *Use of flumes in measuring discharge,* by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI book 3, chap. A14. 1983. 46 pages.

3-A15. *Computation of water-surface profiles in open channels,* by Jacob Davidian: USGS–TWRI book 3, chap. A15. 1984. 48 pages.

3-A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI book 3, chap. A16. 1985. 52 pages.

3-A17. *Acoustic velocity meter systems,* by Antonius Laenen: USGS–TWRI book 3, chap. A17. 1985. 38 pages.

3-A18. *Determination of stream reaeration coefficients by use of tracers,* by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS–TWRI book 3, chap. A18. 1989. 52 pages.

3-A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS–TWRI book 3, chap. A19. 1990. 31 pages.

3-A20. *Simulation of soluable waste transport and buildup in surface waters using tracers*, by F.A. Kilpatrick: USGS–TWRI book 3, chap. A20. 1993. 38 pages.

3-A21 *Stream-gaging cableways,* by C. Russell Wagner: USGS–TWRI book 3, chap. A21. 1995. 56 pages.

Section B. Ground-Water Techniques

3-B1. *Aquifer-test design, observation, and data analysis,* by R.W. Stallman: USGS–TWRI book 3, chap. B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G.D. Bennett: USGS–TWRI book 3, chap. B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J.E. Reed: USGS–TWRI book 3, chap. B3. 1980. 106 pages.

3-B4. *Regression modeling of ground-water flow,* by R.L. Cooley and R.L. Naff: USGS–TWRI book 3, chap. B4. 1990. 232 pages.

3-B4. *Supplement 1. Regression modeling of ground-water flow --Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems,* by R.L. Cooley: USGS–TWRI book 3, chap. B4. 1993. 8 pages.

3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction*, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS–TWRI book 3, chap. B5. 1987. 15 pages.

3-B6. *The principle of superposition and its application in ground-water hydraulics,* by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS–TWRI book 3, chap. B6. 1987. 28 pages.

3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow,* by E.J. Wexler: USGS–TWRI book 3, chap. B7. 1992. 190 pages.

3-B8. *System and boundary conceptualization in ground-water flow simulation,* by T.E.Reilly: USGS-TWRI book 3, chap. B8. 2001. 29 pages.

Section C. Sedimentation and Erosion Techniques

3-C1. *Fluvial sediment concepts,* by H.P. Guy: USGS–TWRI book 3, chap. C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment*, by H.P. Guy and V.W. Norman: USGS–TWRI book 3, chap. C2. 1970. 59 pages.

3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS–TWRI book 3, chap. C3. 1972. 66 pages.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

4-A1. *Some statistical tools in hydrology,* by H.C. Riggs: USGS–TWRI book 4, chap. A1. 1968. 39 pages.

4-A2. *Frequency curves,* by H.C. Riggs: USGS–TWRI book 4, chap. A2. 1968. 15 pages.

Section B. Surface Water

4-B1. *Low-flow investigations,* by H.C. Riggs: USGS–TWRI book 4, chap. B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply,* by H.C. Riggs and C.H. Hardison: USGS–TWRI book 4, chap. B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics,* by H.C. Riggs: USGS–TWRI book 4, chap. B3. 1973. 15 pages.

Section D. Interrelated Phases of the Hydrologic Cycle

4-D1. *Computation of rate and volume of stream depletion by wells*, by C.T. Jenkins: USGS–TWRI book 4, chap. D1. 1970. 17 pages.

Book 5. Laboratory Analysis

Section A. Water Analysis

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments,* by M.J. Fishman and L.C. Friedman, editors: USGS–TWRI book 5, chap. A1. 1989. 545 pages.

5-A2. *Determination of minor elements in water by emission spectroscopy,* by P.R. Barnett and E.C. Mallory, Jr.: USGS–TWRI book 5, chap. A2. 1971. 31 pages.

5-A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS–TWRI book 5, chap. A3. 1987. 80 pages.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples,* by L.J. Britton and P.E. Greeson, editors: USGS–TWRI book 5, chap. A4. 1989. 363 pages.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments,* by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS–TWRI book 5, chap. A5. 1977. 95 pages.

5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments,* by L.C. Friedman and D.E. Erdmann: USGS–TWRI book 5, chap. A6. 1982. 181 pages.

Section C. Sediment Analysis

5-C1. *Laboratory theory and methods for sediment analysis*, by H.P. Guy: USGS–TWRI book 5, chap. C1. 1969. 58 pages.

Book 6. Modeling Techniques

Section A. Ground Water

6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M.G. McDonald and A.W. Harbaugh: USGS–TWRI book 6, chap. A1. 1988. 586 pages.

6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model,* by S.A. Leake and D.E. Prudic: USGS–TWRI book 6, chap. A2. 1991. 68 pages.

6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual,* by L.J. Torak: USGS–TWRI book 6, chap. A3. 1993. 136 pages.

6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions,* by R.L. Cooley: USGS–TWRI book 6, chap. A4. 1992. 108 pages.

6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details,* by L.J. Torak: USGS–TWRI book 6, chap. A5, 1993. 243 pages.

6-A6. A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction, by Eric D. Swain and Eliezer J. Wexler. 1996. 125 pages.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments,* by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS–TWRI book 7, chap. C1. 1976. 116 pages.

7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L.F. Konikow and J.D. Bredehoeft: USGS–TWRI book 7, chap. C2. 1978. 90 pages.

7-C3. *A model for simulation of flow in singular and interconnected channels,* by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS–TWRI book 7, chap. C3. 1981. 110 pages.

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

8-A1. *Methods of measuring water levels in deep wells,* by M.S. Garber and F.C. Koopman: USGS–TWRI book 8, chap. A1. 1968. 23 pages.

8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J.D. Craig: USGS–TWRI book 8, chap. A2. 1983. 57 pages.

Section B. Instruments for Measurement of Discharge

8-B2. *Calibration and maintenance of vertical-axis type current meters,* by G.F. Smoot and C.E. Novak: USGS–TWRI book 8, chap. B2. 1968. 15 pages.

Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A1. 1998. 47 p.

9-A2. *National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A2. 1998. 94 p.

9-A3. *National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A3. 1998. 75 p.

9-A4. *National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A4. 1999. 156 p.

9-A5. *National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999, 149 p.

9-A6. *National Field Manual for the Collection of Water-Quality Data: Field Measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI book 9, chap. A6. 1998. Variously paginated.

9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*,edited by D.N. Myers and F.D. Wilde: USGS–TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.

9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 pages.

9-A9. *National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities*, by S.L. Lane and R.G. Fay: USGS–TWRI book 9, chap. A9. 1998. 60 pages.

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 mi^2.

PERIOD OF RECORD.--May 1975 to September 1987 (month end 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-ft, 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, 7,513.01 ft, May 29, 1995; minimum observed, 911 acre-ft, Feb. 28, 1979, elevation, 7,479.85 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 3,720 acre-ft, Apr. 2-7, elevation, 7,511.30 ft; minimum contents, 3,200 acre-ft, Oct.1-11, elevation 7,506.81 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3200	3280	3390	e3410	e3310	e3310	e3700	3650	e3580	e3420	e3350	3290
2	3200	3280	3390	e3410	e3310	e3310	3720	3650	e3580	e3420	e3350	3290
3	3200	3280	3390	e3410	e3310	e3310	3720	3640	e3590	e3410	e3340	3290
4	3200	3280	3390	e3410	e3310	e3310	3720	3640	e3580	e3410	e3340	3290
5	3200	3280	3390	e3410	e3310	e3320	3720	3650	e3580	e3410	e3340	3290
6	3200	3290	e3390	e3410	e3310	e3320	3720	3660	e3570	e3400	e3340	3280
7	3200	3290	e3390	e3410	e3310	e3330	3720	3660	e3570	e3400	e3330	3280
8	3200	3290	e3390	e3400	e3310	e3340	3710	3660	e3560	e3390	e3330	3280
9	3200	3290	e3390	e3400	e3310	e3340	3710	3660	e3560	e3380	e3320	3280
10	3200	3290	e3390	e3400	e3310	e3350	3710	3660	e3550	e3373	e3320	3280
11	3200	3290	e3390	e3400	e3310	e3360	3700	3660	3550	e3370	e3320	3280
12	3210	3300	e3390	e3400	e3310	e3370	3700	3660	e3540	e3370	e3320	3280
13	3210	3300	e3390	e3390	e3310	e3370	3700	3650	e3530	e3360	e3320	3270
14	3210	3300	e3390	e3390	e3310	e3380	3700	3650	e3520	e3370	e3320	3280
15	3210	3300	e3390	e3380	e3310	3380	3700	3650	e3510	e3370	e3320	3270
16	3210	3310	e3390	e3480	e3310	3390	3690	3640	e3490	e3370	e3320	3270
17	3210	3320	e3390	e3380	e3310	3390	3690	3640	e3480	e3370	e3320	3280
18	3210	3320	e3390	e3370	e3310	3390	3690	e3640	e3470	e3370	e3320	3280
19	3210	3330	e3390	e3370	e3310	3400	3690	e3630	e3470	e3370	e3320	3270
20	3210	3340	e3390	e3360	e3310	3410	3690	e3640	e3460	e3360	e3310	3270
21	3210	3340	e3390	e3350	e3310	3430	3680	e3630	e3470	e3360	e3310	3270
22	3220	3350	e3400	e3350	e3310	3460	3680	e3630	e3470	e3360	e3300	3270
23	3230	3360	e3400	e3340	e3310	3500	3680	e3620	e3470	e3360	e3300	3270
24	3240	3360	e3400	e3330	e3310	3530	3670	e3620	e3460	e3360	e3300	3270
25	3240	3370	e3400	e3330	e3310	3570	3670	e3610	e3440	e3360	e3300	3270
26	3240	3380	e3400	e3320	e3310	3600	3670	e3610	e3440	e3360	e3300	3270
27	3230	3390	e3400	e3310	e3310	3630	3660	e3600	e3430	e3360	3300	3260
28	3260	3390	e3400	e3310	e3310	3650	3660	e3600	e3400	e3360	3290	3260
29	3280	3390	e3400	e3310	---	3660	3650	e3590	e3420	e3360	3290	3270
30	3270	3390	e3410	e3310	---	3680	3650	e3590	e3420	e3360	3290	3260
31	3280	---	e3410	e3310	---	3690	---	e3590	---	e3360	3290	---
MAX	3280	3390	3410	3480	3310	3690	3720	3660	3590	3420	3350	3290
MIN	3200	3280	3390	3310	3310	3310	3650	3590	3400	3360	3290	3260
(+)	7507.51	7508.48	e7508.65	e7507.78	e7507.81	7511.01	7510.69	e7510.13	e7508.76	e7508.24	7507.67	7507.33
(++)	+80	+110	+20	-100	0	+380	-40	-60	-170	-60	-70	-30
(+++)	20	0	0	19	0	0	90	192	128	0	0	0
(++++)	0	0	0	0	0	0	0	0	0	0	0	0

CAL YR 2000 MAX 3720 MIN 3240 (++) -280 (+++) 998 (++++) 0
WTR YR 2001 MAX 3720 MIN 3200 (++) +60 (+++) 449 (++++) 0

e Estimated

(+) Elevation in feet, at end of month.
(++) Change in contents, in acre-feet.
(+++) Diversion for Lake Maloya, in acre-feet.
(++++) Release in acre-feet, to Vermejo Conservancy District.

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 those estimated, which are poor. Eagle Tail ditch diverts water from Chicorica Creek for use near Maxwell. No diversions upstream from station. No flow at times most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	e.16	e1.3	e.50	e.30	e1.4	5.9	.65	2.0	.00	.00	.00
2	.00	e.00	e.20	e.50	e.20	e1.5	4.7	.40	1.2	.00	.00	.00
3	.00	e.00	e.70	e.50	e.20	e1.0	4.6	.31	.48	.00	.00	.00
4	.00	e.00	e.60	e.50	e.20	e.60	7.3	.60	.16	.30	.00	.00
5	.00	e.00	e.70	e.50	e.20	e.90	8.4	1.8	.03	.27	.00	.00
6	.00	e.00	e.80	e.40	e.20	e.90	6.7	2.1	.00	.00	.00	.00
7	.00	e.00	e.90	e.40	e.20	1.0	4.7	1.6	.00	.00	.00	.00
8	.00	e.00	e1.4	e.40	e.20	2.5	4.0	1.3	.00	.00	.00	.00
9	.00	e.00	e1.3	e.40	e.20	7.4	3.4	1.1	.00	.00	.00	.00
10	.00	e.00	e1.2	e.40	e.20	3.0	2.4	1.1	.00	.00	.34	.00
11	.00	e.00	e1.0	e.40	e.20	2.7	2.0	.96	.00	.00	.08	.00
12	.00	e.00	e.90	e.40	e.20	6.5	1.9	.99	.00	.00	.00	.00
13	.00	e.00	e.80	e.40	e.10	3.8	2.3	.89	.00	.00	.00	.00
14	.00	e.00	e.70	e.40	e.10	2.0	1.2	.81	.00	18	.00	.00
15	.00	e.00	s.50	e.40	e.10	1.4	.75	.79	.00	34	.00	.48
16	.00	e.00	e.50	e.30	e.10	1.3	.56	.74	.00	15	.00	1.1
17	.00	e.00	e.40	e.30	e.10	1.4	.44	.70	.00	1.8	.21	.01
18	.00	e.00	e.40	e.30	e.10	1.7	.51	.64	.00	.23	.12	.00
19	.00	e.00	e.60	e.30	e.10	2.3	.80	.93	.00	.01	.00	.00
20	.00	e.00	e.60	e.30	e.10	2.4	.47	.95	.00	.00	.00	.00
21	.00	e.20	e.50	e.30	e.10	1.2	.38	.82	.00	.00	.00	.00
22	.00	e.20	e.50	e.30	e.10	1.5	.27	.71	.00	.00	.00	.00
23	.00	e.00	e.50	e.30	e.10	6.9	.36	.71	.00	.00	.00	.00
24	7.7	e.00	e.50	e.30	e.10	46	.34	.66	.00	.00	.00	.00
25	e9.0	e.20	e.50	e.30	e.60	25	.37	.48	.00	.00	.00	.00
26	e2.5	e.40	e.50	e.30	e1.0	27	.33	.40	.00	.00	.00	.00
27	e2.3	e.20	e.50	e.30	e1.2	14	.31	.26	.00	.00	.00	.00
28	e1.6	e.40	e.50	e.30	e1.4	13	.28	.26	.00	.00	.00	.00
29	e1.4	e.40	e.50	e.30	---	9.8	.37	.16	.00	.00	1.1	.00
30	e1.4	e.30	e.50	e.30	---	7.5	.81	.17	.00	.00	.26	.00
31	e1.5	---	e.50	e.30	---	6.9	---	.14	---	.00	.01	---
TOTAL	27.40	2.46	21.00	11.30	7.90	204.50	66.85	24.13	3.87	69.61	2.12	1.59
MEAN	.88	.082	.68	.36	.28	6.60	2.23	.78	.13	2.25	.068	.053
MAX	9.0	.40	1.4	.50	1.4	46	8.4	2.1	2.0	34	1.1	1.1
MIN	.00	.00	.20	.30	.10	.60	.27	.14	.00	.00	.00	.00
AC-FT	54	4.9	42	22	16	406	133	48	7.7	138	4.2	3.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2001, BY WATER YEAR (WY)

MEAN	2.04	2.42	2.25	2.30	2.85	5.62	11.3	20.0	10.1	6.07	9.28	4.03
MAX	7.06	7.27	8.06	11.3	13.5	26.9	68.7	91.0	46.9	32.0	43.9	12.8
(WY)	1985	1998	1998	1998	1993	1997	1984	1993	1949	1949	1981	1989
MIN	.000	.000	.000	.000	.000	.000	.000	.032	.000	.097	.039	.000
(WY)	1976	1946	1946	1946	1981	1986	1978	1950	1946	1945	1980	1946

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1945 - 2001	
ANNUAL TOTAL	324.61		442.73			
ANNUAL MEAN	.89		1.21		6.81	
HIGHEST ANNUAL MEAN					17.8	1984
LOWEST ANNUAL MEAN					1.18	2000
HIGHEST DAILY MEAN	58	Jun 28	46	Mar 24	[a]217	Aug 27 1946
LOWEST DAILY MEAN	.00	Jan 30	.00	Oct 1	.00	May 16 1945
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 30	.00	Oct 1	.00	May 16 1945
MAXIMUM PEAK FLOW			76	Mar 24	375	May 30 1995
MAXIMUM PEAK STAGE			2.81	Mar 24	5.15	May 30 1995
INSTANTANEOUS LOW FLOW			.00	Oct 1	.00	Oct 1 2000
ANNUAL RUNOFF (AC-FT)	644		878		4930	
10 PERCENT EXCEEDS	2.3		2.0		16	
50 PERCENT EXCEEDS	.00		.21		1.5	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
a From rating curve extended above 85 ft^3/s.

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 mi^2.

PERIOD OF RECORD.--October 1915 to July 1918, April 1919 to May 1923, March 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 with satellite telemetry. 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 good except for those estimated, which are poor. Diversions for irrigation of small acreage and mountain meadows upstream from station. Several observations of water temperature were made during year.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred Aug. 2, 1921, when discharge probably exceeded 10,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	12	e4.4	e3.2	e4.6	e6.0	12	24	17	14	5.6	8.6
2	2.5	10	e4.1	e3.4	e4.0	6.7	12	20	23	14	5.3	7.6
3	2.2	10	e4.0	e3.4	e3.8	7.6	13	23	25	14	5.0	7.3
4	2.0	9.3	e4.1	e3.2	e4.6	5.8	15	25	24	19	7.3	6.5
5	1.9	8.0	e4.2	e3.4	e5.0	5.5	16	28	14	14	8.1	5.9
6	2.4	8.0	e3.8	e3.2	e7.0	5.6	16	27	12	9.7	8.2	5.3
7	3.4	e6.0	e3.6	e3.4	e8.4	6.4	17	26	12	8.8	9.2	4.6
8	3.8	e5.0	e3.4	e3.2	e7.8	10	16	24	21	9.7	10	4.3
9	4.2	e4.7	e3.6	e3.0	e6.0	10	15	24	27	9.7	8.8	4.8
10	4.2	e5.1	e3.5	e3.0	e5.0	9.8	14	24	23	7.4	11	5.0
11	3.8	e4.1	e3.6	e3.2	e6.0	10	12	25	20	5.1	26	4.8
12	3.8	e3.9	e3.5	e3.4	e6.6	9.9	11	28	11	4.7	25	3.8
13	3.9	e3.8	e3.4	e3.1	e6.6	8.8	16	29	8.0	5.4	25	3.3
14	4.0	e4.1	e3.4	e3.2	e6.0	8.9	14	33	8.0	9.7	15	3.4
15	4.1	e4.1	e3.6	e3.0	e6.6	11	14	34	8.0	11	15	5.2
16	4.1	e3.8	e3.5	e3.2	e6.0	9.7	14	32	14	9.1	14	5.2
17	4.0	e3.9	e3.4	e3.0	e5.8	8.9	15	33	16	6.9	14	4.7
18	3.9	e3.8	e3.5	e2.8	e5.0	9.6	18	36	15	5.1	11	3.8
19	3.8	e4.1	e3.4	e2.8	e5.0	9.3	20	37	12	5.9	9.5	3.3
20	3.9	e4.6	e3.2	e3.0	e4.0	9.0	22	48	10	6.8	8.7	2.8
21	4.0	e4.0	e3.4	e3.8	e4.6	9.6	24	38	11	8.3	8.1	2.5
22	4.2	e3.8	e3.4	e3.6	e4.6	10	22	34	31	11	7.8	3.0
23	13	e4.0	e3.5	e3.7	e4.0	12	23	28	25	11	7.3	3.3
24	31	e3.7	e3.5	e3.4	e3.5	12	17	25	24	12	6.5	3.0
25	12	e3.9	e3.4	e3.6	e3.0	13	15	24	21	11	6.0	2.7
26	12	e4.0	e3.2	e4.0	e4.0	13	15	31	15	9.0	6.7	2.6
27	10	e3.8	e3.4	e3.6	e5.4	15	16	31	12	7.4	6.5	2.7
28	44	e3.7	e3.5	e3.6	e5.8	15	20	29	9.7	9.8	5.8	2.4
29	30	e4.2	e3.4	e4.0	---	14	22	33	8.5	9.4	5.9	2.5
30	17	e4.3	e3.2	e5.8	---	13	24	20	12	8.3	7.0	3.1
31	13	---	e3.4	e4.0	---	11	---	18	---	6.8	9.9	---
TOTAL	258.6	157.7	110.5	106.2	148.7	306.1	500	891	489.2	294.0	319.2	128.0
MEAN	8.34	5.26	3.56	3.43	5.31	9.87	16.7	28.7	16.3	9.48	10.3	4.27
MAX	44	12	4.4	5.8	8.4	15	24	48	31	19	26	8.6
MIN	1.9	3.7	3.2	2.8	3.0	5.5	11	18	8.0	4.7	5.0	2.4
AC-FT	513	313	219	211	295	607	992	1770	970	583	633	254

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2001, BY WATER YEAR (WY)

MEAN	9.03	7.02	5.85	5.63	6.43	6.86	21.5	52.5	36.2	29.7	41.2	17.1
MAX	51.6	30.5	25.5	16.6	16.7	34.8	370	372	179	138	178	78.4
(WY)	1942	1942	1995	2000	1920	1987	1942	1941	1965	1919	1999	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1916 - 2001	
ANNUAL TOTAL	4438.5		3709.2			
ANNUAL MEAN	12.1		10.2		19.6	
HIGHEST ANNUAL MEAN					89.0	1942
LOWEST ANNUAL MEAN					2.05	1951
HIGHEST DAILY MEAN	111	Jul 17	48	May 20	2340	Apr 23 1942
LOWEST DAILY MEAN	1.2	Sep 15	1.9	Oct 5	.00	Nov 21 1931
ANNUAL SEVEN-DAY MINIMUM	1.4	Sep 14	2.4	Oct 1	.00	Nov 21 1931
MAXIMUM PEAK FLOW			100	Oct 28	[a]12600	Jun 17 1965
MAXIMUM PEAK STAGE			3.94	Oct 28	15.25	Jun 17 1965
INSTANTANEOUS LOW FLOW			1.7	Oct 5		
ANNUAL RUNOFF (AC-FT)	8800		7360		14180	
10 PERCENT EXCEEDS	25		24		45	
50 PERCENT EXCEEDS	11		6.9		8.0	
90 PERCENT EXCEEDS	3.4		3.3		1.9	

e Estimated
a from rating curve extended above 400 ft^3/s, on basis of slope-area measurement of peak flow.

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 mi^2.

PERIOD OF RECORD.--April 1928 to October 1955 and June 1964 to current year (seasonal 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 fair. Diversions for irrigation of about 1,200 acres upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 240 ft^3/s, Sept. 1, 1946, gage height, 3.10 ft, site and datum then in use; maximum gage height, 3.55 ft, May 12, 1973; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 24 ft^3/s, at 1830 hours, May 4, gage height, 2.13 ft; minimum daily discharge, .03 ft^3/s, Sept. 22, 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	---	---	---	---	---	---	16	2.5	1.4	.08	.70
2	.07	---	---	---	---	---	---	16	2.2	1.2	.08	.64
3	.07	---	---	---	---	---	---	17	1.8	1.2	.13	.57
4	.08	---	---	---	---	---	---	21	1.6	.88	.45	.45
5	.08	---	---	---	---	---	---	23	1.6	.65	.94	.31
6	.08	---	---	---	---	---	---	20	1.5	.55	.30	.27
7	.09	---	---	---	---	---	---	19	1.5	.46	.17	.20
8	.10	---	---	---	---	---	---	17	2.1	.41	.14	.12
9	.10	---	---	---	---	---	---	17	2.8	.34	.25	.11
10	.08	---	---	---	---	---	---	18	1.5	.29	.68	.10
11	.06	---	---	---	---	---	---	18	1.1	.27	1.2	.08
12	.08	---	---	---	---	---	---	18	.90	.33	1.6	.06
13	.08	---	---	---	---	---	---	16	.95	.33	2.1	.05
14	.08	---	---	---	---	---	---	15	.91	.46	1.2	.11
15	.08	---	---	---	---	---	---	13	.86	.29	1.1	.14
16	.08	---	---	---	---	---	---	11	.79	.23	1.8	.11
17	.08	---	---	---	---	---	---	9.9	.65	.21	1.6	.12
18	.08	---	---	---	---	---	---	8.7	.61	.19	1.1	.15
19	.08	---	---	---	---	---	e14	8.2	.56	.23	.76	.12
20	---	---	---	---	---	---	18	10	.66	.31	.68	.06
21	---	---	---	---	---	---	17	9.9	.70	.40	.56	.04
22	---	---	---	---	---	---	15	7.5	.66	.35	.43	.03
23	---	---	---	---	---	---	14	5.9	.60	.21	.40	.04
24	---	---	---	---	---	---	14	5.1	.65	.20	.30	.04
25	---	---	---	---	---	---	14	4.6	.78	.32	.28	.06
26	---	---	---	---	---	---	14	4.4	.76	.47	.38	.06
27	---	---	---	---	---	---	15	3.9	.70	.44	.35	.06
28	---	---	---	---	---	---	16	3.5	.61	.30	.32	.04
29	---	---	---	---	---	---	16	3.2	1.5	.20	.34	.03
30	---	---	---	---	---	---	16	2.9	2.5	.14	.43	.04
31	---	---	---	---	---	---	---	2.8	---	.18	.47	---
TOTAL	1.52	---	---	---	---	---	183	365.5	36.55	13.44	20.62	4.91
MEAN	.080	---	---	---	---	---	15.2	11.8	1.22	.43	.67	.16
MAX	.10	---	---	---	---	---	18	23	2.8	1.4	2.1	.70
MIN	.06	---	---	---	---	---	14	2.8	.56	.14	.08	.03
AC-FT	3.0	---	---	---	---	---	363	725	72	27	41	9.7

e Estimated

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 mi^2.

PERIOD OF RECORD.--April 1928 to September 1955 and June 1964 to current year (seasonal 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 observation of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 505 ft^3/s, June 16, 1965, gage height, 5.63 ft, March 19, 1994, from rating curve extended above 110 ft^3/s, no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 61 ft^3/s, at 1745 hours, Apr. 20, gage height, 3.95 ft; minimum daily discharge .69 ft^3/s, July 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	---	---	---	---	---	---	31	5.8	1.9	1.1	2.8
2	1.4	---	---	---	---	---	---	29	5.3	3.0	1.1	1.9
3	1.4	---	---	---	---	---	---	27	4.8	3.1	2.1	1.7
4	1.5	---	---	---	---	---	---	27	4.4	3.0	1.6	1.6
5	1.7	---	---	---	---	---	---	34	4.3	1.7	1.1	1.4
6	1.4	---	---	---	---	---	---	33	4.1	1.2	1.1	1.2
7	1.4	---	---	---	---	---	---	37	4.0	1.0	1.1	.95
8	1.7	---	---	---	---	---	---	31	4.6	1.0	1.3	.90
9	1.8	---	---	---	---	---	---	31	5.2	.94	1.5	1.1
10	1.4	---	---	---	---	---	---	29	3.7	.86	1.6	1.1
11	1.3	---	---	---	---	---	---	27	3.2	.93	1.6	.78
12	2.6	---	---	---	---	---	---	25	2.8	1.1	1.9	.73
13	3.2	---	---	---	---	---	---	22	2.5	.93	1.8	1.0
14	1.8	---	---	---	---	---	---	20	2.6	1.0	2.5	1.2
15	1.6	---	---	---	---	---	---	18	2.6	.96	3.1	.98
16	1.5	---	---	---	---	---	---	16	2.5	.75	4.9	.85
17	1.5	---	---	---	---	---	---	16	2.3	.69	2.4	.84
18	1.5	---	---	---	---	---	---	14	2.2	.83	1.9	.78
19	---	---	---	---	---	---	---	13	2.1	.76	1.6	.73
20	---	---	---	---	---	---	52	15	2.1	.87	1.5	.74
21	---	---	---	---	---	---	50	15	2.2	1.7	1.3	.81
22	---	---	---	---	---	---	43	12	2.5	6.5	1.1	.99
23	---	---	---	---	---	---	39	11	2.2	2.1	.97	1.2
24	---	---	---	---	---	---	40	9.6	2.1	1.7	.86	1.4
25	---	---	---	---	---	---	41	9.0	2.1	2.0	.95	1.7
26	---	---	---	---	---	---	39	8.4	1.7	2.4	1.6	1.7
27	---	---	---	---	---	---	39	7.9	2.2	3.1	1.2	1.6
28	---	---	---	---	---	---	43	7.2	1.5	2.1	1.4	1.4
29	---	---	---	---	---	---	39	6.9	1.4	1.4	1.8	1.3
30	---	---	---	---	---	---	35	6.4	1.5	1.4	1.5	1.4
31	---	---	---	---	---	---	---	6.2	---	1.2	1.9	---
TOTAL	30.3	---	---	---	---	---	460	594.6	90.5	52.12	51.38	36.78
MEAN	1.68	---	---	---	---	---	41.8	19.2	3.02	1.68	1.66	1.23
MAX	3.2	---	---	---	---	---	52	37	5.8	6.5	4.9	2.8
MIN	1.3	---	---	---	---	---	35	6.2	1.4	.69	.86	.73
AC-FT	60	---	---	---	---	---	912	1180	180	103	102	73

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 mi^2.

PERIOD OF RECORD.--April 1928 to September 1955 (seasonal records in water years 1929-31, 1933-55), July 1958 to current year (seasonal records subsequent to water year 1975). Prior to October 1930 monthly discharge only, published in WSP 1311. Records for December 1930 to March 1931, published in WSP 732, are unreliable and should not be used. Published as "near Therma" 1928-34.

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

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

REMARKS.--Records good except for those estimated, which are poor. Diversions for irrigation of about 300 acres upstream from station. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--18 years (water years 1932, 1959-75), 2.51 ft^3/s, 1,820 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (1930-55 and since 1957).--Maximum discharge, 128 ft^3/s, Aug. 5, 1969, gage height, 2.86 ft, from rating curve extended above 32 ft^3/s; maximum gage height recorded, 3.38 ft, Apr. 2, 1937 (ice jam), site and datum then in use; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 11 ft^3/s, at 1530 hours, Apr. 20, gage height 1.08 ft; minimum daily discharge, 0 ft^3/s, many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	---	---	---	---	---	---	7.8	.36	.28	.01	.00
2	.99	---	---	---	---	---	---	6.0	.32	.28	.00	.00
3	.95	---	---	---	---	---	---	5.6	.27	.25	.01	.00
4	1.0	---	---	---	---	---	---	5.2	.24	.21	.01	.00
5	1.1	---	---	---	---	---	---	5.3	.31	.12	.00	.00
6	1.1	---	---	---	---	---	---	4.0	.28	.07	.00	.00
7	1.1	---	---	---	---	---	---	3.7	.47	.05	.00	.00
8	1.1	---	---	---	---	---	---	3.8	.58	.04	.00	.00
9	1.2	---	---	---	---	---	---	3.9	.70	.03	.00	.00
10	1.1	---	---	---	---	---	---	4.0	.44	.02	.00	.00
11	1.1	---	---	---	---	---	---	3.8	.12	.02	.00	.00
12	1.6	---	---	---	---	---	---	3.4	.08	.02	.01	.00
13	1.3	---	---	---	---	---	---	3.0	.07	.01	.05	.00
14	1.2	---	---	---	---	---	---	2.6	.08	.01	.19	.00
15	1.1	---	---	---	---	---	---	2.3	.09	.00	.13	.00
16	1.1	---	---	---	---	---	---	1.7	.08	.00	.13	.29
17	1.0	---	---	---	---	---	---	1.6	.06	.00	.04	.97
18	1.1	---	---	---	---	---	---	1.5	.04	.00	.00	.94
19	---	---	---	---	---	---	---	1.8	.03	.00	.00	.93
20	---	---	---	---	---	---	8.2	1.7	.05	.03	.00	.92
21	---	---	---	---	---	---	9.9	1.3	.09	.09	.00	.93
22	---	---	---	---	---	---	9.7	1.1	.10	.18	.00	.96
23	---	---	---	---	---	---	8.5	.89	.07	.16	.00	.95
24	---	---	---	---	---	---	7.5	.78	.07	.07	.00	.97
25	---	---	---	---	---	---	7.0	.70	.12	.07	.00	1.0
26	---	---	---	---	---	---	7.2	.69	.18	.06	.00	.96
27	---	---	---	---	---	---	8.2	.61	.21	.19	.00	.95
28	---	---	---	---	---	---	8.9	.54	.14	.19	.00	.94
29	---	---	---	---	---	---	9.5	.53	.22	.07	.00	.95
30	---	---	---	---	---	---	9.7	.42	.34	.02	.00	.98
31	---	---	---	---	---	---	---	.42	---	.04	.00	---
TOTAL	20.24	---	---	---	---	---	94.3	80.68	6.21	2.58	0.58	13.64
MEAN	1.12	---	---	---	---	---	8.57	2.60	.21	.083	.019	.45
MAX	1.6	---	---	---	---	---	9.9	7.8	.70	.28	.19	1.0
MIN	.95	---	---	---	---	---	7.0	.42	.03	.00	.00	.00
AC-FT	40	---	---	---	---	---	187	160	12	5.1	1.2	27

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 mi^2.

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 with satellite telemetry. Datum of gage is 8,056.8 ft above National Geodetic Vertical Datum of 1929. Prior to October 1964 gage heights were raised by addition of 8,000 ft and called elevations.

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

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

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 58,900 acre-ft, May 23-26, gage height, 127.94 ft; minimum, 48,900 acre-ft, Sept.30, gage height, 122.81 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55100	53800	53700	53800	54100	54400	56100	57800	58600	56100	53000	51100
2	55000	54200	53600	53800	54100	54400	56100	57800	58600	56000	53000	51000
3	55000	53700	53700	53800	54100	54400	56200	57800	58600	55900	53000	50900
4	55000	53800	53700	53800	54100	54400	56300	57900	58300	55800	52900	50900
5	54900	e53800	53600	53800	54100	54500	56400	57900	58200	55700	52900	50800
6	54800	53800	53700	53800	54100	54500	56500	58100	58100	55600	52800	50700
7	54800	53800	53700	53800	54100	54600	56500	58100	57900	55500	52700	50600
8	54800	53800	53700	53800	54100	54700	56500	58200	57900	55400	52700	50500
9	54800	53700	53700	53900	54200	54700	56500	58200	57800	55300	52600	50400
10	54700	e53700	53800	53900	54200	54800	56600	58300	57700	55200	52600	50300
11	54800	e53700	53600	53900	54100	54700	56700	58400	57700	55100	52600	50200
12	54800	53800	53700	53900	54200	54800	56900	58500	57600	55000	52500	50100
13	54700	53800	53700	53900	54200	54800	56800	58500	57500	54900	52500	50100
14	54700	53800	53700	53900	54100	54900	56900	58600	57400	54800	52500	50100
15	54700	53800	53700	53900	54200	54800	56900	58700	57300	54700	52400	50000
16	54700	53700	53600	53900	54200	54900	56900	58700	57200	54600	52400	50000
17	54700	53700	53700	53900	54200	55000	57000	58800	57100	54500	52300	49900
18	54700	53700	53700	53900	54200	55000	57100	58700	57100	54300	52300	49800
19	54600	53600	53600	54000	54200	55000	57200	58800	57000	54200	52200	49800
20	54600	53700	53700	53900	54200	55000	57100	58800	56900	54100	52100	49700
21	54500	53700	53800	53900	54200	55200	57300	58800	56900	54000	52000	49600
22	54500	53700	53600	53900	54200	55300	57400	58800	56800	53900	52000	49600
23	54600	53700	53600	53900	54200	55400	57400	58900	56700	53800	51900	49600
24	54500	53700	53700	54000	54300	55500	57500	58900	56600	53700	51800	49500
25	54400	53700	53800	53900	54300	55700	57600	58900	56500	53600	51600	49500
26	e54200	53700	53700	54000	54300	55700	57600	58900	56500	53500	51500	49300
27	54200	53700	53800	54000	54300	55800	57700	58800	56400	53400	51200	49100
28	e54200	53700	53800	54000	54400	55900	57700	58800	56300	53300	51200	49000
29	e54100	53700	53800	54000	---	55900	57800	58800	56300	53200	51100	49000
30	e54000	53600	53800	54000	---	55900	57800	58700	56200	53200	51100	48900
31	e53900	---	53700	54100	---	56000	---	58700	---	53100	51100	---
MAX	55100	54200	53800	54100	54400	56000	57800	58900	58600	56100	53000	51100
MIN	53900	53600	53600	53800	54100	54400	56100	57800	56200	53100	51100	48900
(+)	e125.44	125.31	125.36	125.52	125.69	126.51	127.41	127.84	126.61	125.02	123.97	122.81
(++)	-1200	-300	+100	+400	+300	+1600	+1800	+900	-2500	-3100	-2000	-2200

e Estimated

(+) Gage height, in feet, at end of month.
(++) Change in contents, in acre-feet.

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 mi^2.

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 with satellite telemetry. 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 fair except for those estimated, which are poor. Flow regulated by Eagle Nest Lake (station 07205500) 300 ft upstream. Diversions for irrigation of about 2,500 acres upstream from station. No flow at times most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	47	3.3	e1.9	e1.6	e2.3	2.7	38	22	45	23	22
2	15	8.1	3.0	e1.9	e1.5	e2.5	2.7	38	22	45	16	26
3	12	3.4	2.5	e1.8	e1.5	e2.5	2.6	38	43	45	16	29
4	12	1.7	2.7	e1.8	e1.6	e2.8	2.4	30	52	45	16	29
5	9.2	1.6	2.5	e1.9	e1.6	e3.1	2.4	22	52	45	18	29
6	7.8	1.3	2.7	e1.9	e1.5	e3.3	1.9	21	51	45	22	29
7	7.7	1.3	2.6	e2.0	e1.5	e2.9	1.7	e21	46	42	22	29
8	6.2	1.2	2.5	e2.0	e1.6	e2.9	1.6	e19	44	40	22	29
9	4.1	1.2	2.5	e1.9	e1.6	e2.8	1.4	e18	44	40	22	31
10	3.8	1.2	2.5	e1.9	e1.6	3.0	1.3	e19	39	40	22	32
11	3.9	1.2	2.4	e1.8	e1.5	2.7	.81	e17	27	40	22	31
12	3.8	1.2	2.6	e1.8	e1.5	2.7	.82	e14	23	40	22	28
13	3.3	1.2	2.7	e1.9	e1.5	2.7	.64	e10	22	40	22	22
14	3.4	1.1	2.6	e1.8	e1.5	2.7	.63	e8.0	22	40	22	22
15	3.6	1.1	2.3	e1.8	e1.6	2.7	5.2	2.4	26	47	22	21
16	3.7	.97	1.8	e1.8	e1.6	2.5	5.9	2.2	28	51	22	22
17	3.3	.83	1.8	e1.7	e1.6	2.5	20	1.6	28	51	22	22
18	3.0	.94	1.8	e1.7	e1.5	2.5	26	1.5	28	55	22	22
19	7.9	.76	e1.9	e1.7	e1.9	2.5	27	1.5	28	57	22	21
20	17	.67	e1.7	e1.9	e2.2	2.5	27	1.8	29	57	25	18
21	18	.81	e1.8	e1.9	e2.3	2.5	27	1.5	34	57	27	16
22	29	.62	e1.7	e1.9	e2.4	2.6	36	1.2	34	57	27	16
23	36	.62	e1.9	e1.7	e2.4	2.6	39	1.2	34	57	27	16
24	35	.62	e1.8	e1.7	e2.7	2.7	39	1.0	38	54	27	16
25	42	4.0	e1.9	e1.7	e2.6	2.7	38	1.1	41	49	96	56
26	61	11	e2.0	e1.8	e2.6	2.7	37	1.3	45	47	45	114
27	61	11	e1.9	e1.8	e2.4	2.7	37	9.4	45	43	8.5	49
28	61	7.0	e2.0	e1.8	e2.3	2.7	38	19	45	41	8.8	11
29	61	4.8	e1.9	e1.9	---	2.7	38	21	45	37	18	9.3
30	61	3.7	e2.0	e1.6	---	2.6	38	21	45	31	22	9.3
31	61	---	e2.0	e1.6	---	2.7	---	21	---	26	22	---
TOTAL	674.7	122.14	69.3	56.3	51.7	83.3	501.70	422.7	1082	1409	750.3	826.6
MEAN	21.8	4.07	2.24	1.82	1.85	2.69	16.7	13.6	36.1	45.5	24.2	27.6
MAX	61	47	3.3	2.0	2.7	3.3	39	38	52	57	96	114
MIN	3.0	.62	1.7	1.6	1.5	2.3	.63	1.0	22	26	8.5	9.3
AC-FT	1340	242	137	112	103	165	995	838	2150	2790	1490	1640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2001, BY WATER YEAR (WY)

MEAN	15.9	5.22	1.01	.93	2.38	9.34	22.6	35.1	32.4	36.9	22.6	17.0
MAX	50.3	25.9	20.4	19.1	47.0	146	171	212	112	73.3	85.6	51.3
(WY)	1976	1982	1986	1992	1992	1987	1994	1994	1994	1950	1995	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1950 - 2001	
ANNUAL TOTAL	6767.94		6049.74			
ANNUAL MEAN	18.5		16.6		16.7	
HIGHEST ANNUAL MEAN					56.5	1994
LOWEST ANNUAL MEAN					5.85	1955
HIGHEST DAILY MEAN	[a]65	Aug 7	114	Sep 26	303	May 24 1994
LOWEST DAILY MEAN	.15	Mar 9	.62	Nov 22	.00	May 1 1950
ANNUAL SEVEN-DAY MINIMUM	.16	Mar 4	.72	Nov 18	.00	May 1 1950
ANNUAL RUNOFF (AC-FT)	13420		12000		12060	
10 PERCENT EXCEEDS	53		45		45	
50 PERCENT EXCEEDS	3.8		5.2		6.4	
90 PERCENT EXCEEDS	.46		1.5		.00	

e Estimated
a Many days.

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.

DRAINAGE AREA.--294 mi^2.

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 with satellite telemetry. Concrete control since Nov. 6, 1963. Datum of gage is 6,599.58 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for those estimated, 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	58	e4.4	e4.8	e2.6	e3.2	12	60	31	36	17	21
2	13	27	e4.2	e5.0	e2.4	e3.4	12	59	29	39	11	22
3	11	14	e4.2	e5.2	e2.2	e3.6	14	59	35	36	9.6	27
4	9.3	10	e4.4	e5.4	e2.4	e3.1	15	61	50	36	9.2	24
5	8.0	7.9	e4.2	e5.5	e3.0	e3.2	16	52	49	35	8.5	23
6	6.0	7.2	e4.0	e5.0	e4.0	e3.6	17	45	51	34	11	22
7	5.2	e6.2	e3.8	e4.2	e5.0	4.5	17	39	e50	33	12	21
8	5.5	e5.2	e4.0	e4.0	e6.0	7.4	15	26	e54	34	12	22
9	4.6	e3.6	3.2	e4.4	e5.2	7.3	13	24	e59	36	16	24
10	3.0	e3.5	3.3	e5.0	e5.0	8.1	12	26	e48	36	18	28
11	2.1	e4.3	e4.0	e4.6	e5.4	7.3	13	27	e36	36	16	28
12	2.3	e3.3	e4.6	e4.8	e5.2	6.3	12	28	30	36	16	28
13	2.5	e3.5	e5.0	e5.0	e5.0	6.7	11	28	28	36	16	21
14	1.7	e3.6	e4.5	e3.6	e5.2	8.6	10	29	25	36	16	21
15	1.4	e3.6	e5.0	e5.0	e5.0	7.4	10	28	22	38	15	20
16	1.3	e3.6	e5.4	e4.4	e4.6	7.9	14	29	24	43	17	20
17	1.2	e3.5	e6.0	e4.2	e4.2	7.8	17	29	24	44	22	20
18	1.1	e3.6	e5.0	e3.8	e3.8	7.4	34	27	23	46	21	19
19	.92	e3.9	e5.2	e3.6	e3.4	7.2	38	28	23	47	21	19
20	6.0	e4.2	e5.6	e3.2	e3.6	7.4	42	29	23	44	22	19
21	13	e4.0	e5.4	e2.8	e3.6	9.5	42	28	27	45	24	15
22	19	e3.8	e5.0	e2.6	e3.2	12	45	25	28	45	24	15
23	40	e4.0	e5.4	e2.6	e2.8	13	50	21	27	45	24	15
24	41	e3.8	e5.0	e2.6	e2.2	13	50	19	29	46	24	15
25	36	e3.8	e5.6	e2.3	e2.2	13	49	18	34	43	49	18
26	49	e4.0	e5.0	e2.8	e2.8	15	48	16	38	40	75	89
27	54	e3.8	e4.4	e2.6	e2.9	15	50	17	37	38	14	72
28	76	e3.6	e4.8	e2.6	e3.0	15	53	25	39	33	11	20
29	68	e4.0	e5.0	e2.6	---	13	54	32	37	32	9.7	13
30	61	e4.2	e4.2	e2.8	---	13	56	31	36	26	20	12
31	59	---	e4.8	e2.8	---	12	---	33	---	21	21	---
TOTAL	622.12	218.7	144.6	119.8	105.9	264.9	841	998	1046	1175	602.0	733
MEAN	20.1	7.29	4.66	3.86	3.78	8.55	28.0	32.2	34.9	37.9	19.4	24.4
MAX	76	58	6.0	5.5	6.0	15	56	61	59	47	75	89
MIN	.92	3.3	3.2	2.3	2.2	3.1	10	16	22	21	8.5	12
AC-FT	1230	434	287	238	210	525	1670	1980	2070	2330	1190	1450
(+)	0	0	0	0	0	0	0	0	250	242	261	59
(++)	253	281	230	0	0	0	0	0	375	107	0	0

CAL YR 2000 AC-FT (+) 813 (++) 1222
WTR YR 2001 AC-FT (+) 812 (++) 1246

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2001, BY WATER YEAR (WY)

MEAN	17.9	10.0	5.06	4.23	5.11	12.7	35.4	66.2	49.7	38.4	27.7	19.6
MAX	44.9	26.7	18.5	18.5	43.7	149	237	329	158	79.5	81.0	50.4
(WY)	1976	1982	1995	1992	1992	1987	1994	1994	1994	1995	1995	1968
MIN	.14	1.80	1.32	1.13	1.11	1.65	2.70	23.5	8.55	6.13	1.95	.12
(WY)	1957	1993	1957	1957	1997	1955	1955	1957	1956	1956	1954	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1950 - 2001	
ANNUAL TOTAL	7500.22		6871.02			
ANNUAL MEAN	20.5		18.8		24.3	
HIGHEST ANNUAL MEAN					80.7	1994
LOWEST ANNUAL MEAN					9.09	1956
HIGHEST DAILY MEAN	76	Oct 28	89	Sep 26	1240	Jun 17 1965
LOWEST DAILY MEAN	.92	Oct 19	.92	Oct 19	.00	Sep 14 1956
ANNUAL SEVEN-DAY MINIMUM	1.4	Oct 13	1.4	Oct 13	.00	Sep 14 1956
MAXIMUM PEAK FLOW			106	Aug 26	[a]15500	Jun 17 1965
MAXIMUM PEAK STAGE			1.93	Aug 26	[b]12.42	Jun 17 1965
INSTANTANEOUS LOW FLOW			.92	Oct 19	.00	Sep 14 1956
ANNUAL RUNOFF (AC-FT)	14880		13630		17590	
10 PERCENT EXCEEDS	49		45		56	
50 PERCENT EXCEEDS	14		13		14	
90 PERCENT EXCEEDS	3.4		3.2		2.8	

e Estimated
a From rating curve extended above 800 ft^3/s, on basis of slope-area measurements at gage heights 4.88 ft and 12.4 ft.
b From floodmarks.
(+) Diversion, in acre-feet, by Philmont Ditch, data provided by Cimarron River Watermaster.
(++) Diversion, in acre-feet, by Raton Diversion, data provided by City of Raton.

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 mi^2.

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.--Records good except for those estimated, 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 ft^3/s by New Mexico State Engineer.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.21	3.2	e2.2	e1.5	e2.9	2.0	13	36	11	2.0	.69	1.2
2	.20	2.9	e2.1	e1.6	e3.1	1.9	17	37	9.3	2.8	.73	1.1
3	.19	2.8	e2.2	e1.6	e3.0	2.0	20	41	8.0	2.7	.79	1.3
4	.21	2.8	e2.2	e1.5	e2.9	1.8	23	42	7.2	2.3	1.1	.97
5	.27	2.7	e2.1	e1.5	e2.9	1.9	24	36	6.4	1.8	1.0	.78
6	.27	2.7	e2.0	e1.5	e3.0	1.9	26	30	5.6	1.5	.89	.69
7	.34	2.6	e1.9	e1.4	e2.7	2.3	25	29	5.3	1.2	.83	.59
8	.38	2.4	e1.8	e1.3	e2.6	3.6	24	28	13	1.0	.71	.55
9	.43	2.6	e1.9	e1.2	e2.6	3.3	22	28	15	.96	.94	.66
10	.42	2.5	e1.8	e1.3	e2.6	3.9	21	28	9.6	.84	1.4	.64
11	.45	2.5	e1.7	e1.4	e2.9	3.8	20	29	7.1	1.2	1.8	.57
12	.45	2.6	e1.8	e1.4	e3.1	3.2	21	31	5.6	1.1	2.9	.48
13	.52	e2.1	e1.7	e1.3	e3.1	3.4	19	30	4.8	1.3	4.1	.44
14	.59	e2.2	e1.7	e1.4	e2.8	4.1	18	33	4.4	2.1	4.3	.47
15	.70	e2.2	e1.7	e1.6	e3.2	4.4	18	34	4.2	1.7	3.9	.65
16	.76	e2.1	e1.6	e1.3	e3.1	4.6	20	33	3.8	1.3	3.6	.80
17	.78	e2.2	e1.6	e1.2	e2.2	5.0	22	33	3.3	1.0	3.6	1.1
18	.81	e2.0	e1.6	e1.2	2.1	4.3	26	30	3.1	1.1	2.9	.74
19	.83	e2.2	e1.5	e1.3	2.2	4.1	31	29	2.7	1.3	2.3	.63
20	.84	e2.3	e1.7	e1.4	2.2	4.4	35	29	2.9	1.4	1.9	.54
21	.84	e2.1	e1.9	e1.4	2.1	6.5	35	26	2.9	1.3	1.6	.48
22	1.0	e2.2	e1.6	e1.4	2.0	10	33	24	3.2	2.1	1.3	.49
23	3.8	e2.3	e1.6	e1.4	2.0	13	29	22	3.2	2.3	1.1	.53
24	5.5	e2.0	e1.7	e1.3	2.0	15	28	20	2.6	2.0	.87	.48
25	3.6	e2.0	e1.7	e1.4	1.8	14	27	19	2.6	1.7	1.1	.46
26	2.6	e2.1	e1.6	e1.6	1.9	17	27	18	2.7	2.1	1.1	.47
27	2.2	e2.0	e1.6	e1.8	2.0	18	31	16	2.8	1.8	.91	.43
28	5.2	e1.9	e1.7	e2.4	2.0	17	36	15	2.6	1.4	.83	.38
29	5.9	e2.0	e1.8	e2.8	---	15	36	14	2.6	1.1	.77	.33
30	4.4	e2.0	e1.6	e3.0	---	13	36	13	2.2	.85	.88	.35
31	3.7	---	e1.5	e3.0	---	12	---	12	---	.64	1.0	---
TOTAL	48.39	70.2	55.1	49.4	71.0	216.4	763	845	159.7	47.89	51.84	19.30
MEAN	1.56	2.34	1.78	1.59	2.54	6.98	25.4	27.3	5.32	1.54	1.67	.64
MAX	5.9	3.2	2.2	3.0	3.2	18	36	42	15	2.8	4.3	1.3
MIN	.19	1.9	1.5	1.2	1.8	1.8	13	12	2.2	.64	.69	.33
AC-FT	96	139	109	98	141	429	1510	1680	317	95	103	38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2001, BY WATER YEAR (WY)

MEAN	3.71	3.36	2.43	2.16	2.30	5.19	25.3	50.7	18.6	7.35	14.8	5.45
MAX	23.2	12.3	8.80	8.04	7.35	25.5	126	324	122	31.9	159	51.7
(WY)	1961	1920	1920	1920	1987	1987	1924	1999	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1916 - 2001	
ANNUAL TOTAL	1729.74		2397.22			
ANNUAL MEAN	4.73		6.57		11.9	
HIGHEST ANNUAL MEAN					40.9	1999
LOWEST ANNUAL MEAN					1.38	1974
HIGHEST DAILY MEAN	29	Apr 14	42	May 4	819	Jun 17 1965
LOWEST DAILY MEAN	.08	Sep 14	.19	Oct 3	.00	Jun 23 1951
ANNUAL SEVEN-DAY MINIMUM	.09	Sep 13	.24	Oct 1	.00	Jun 23 1951
MAXIMUM PEAK FLOW			43	May 4	[a]5630	Jun 17 1965
MAXIMUM PEAK STAGE			2.35	May 4	11.13	Jun 17 1965
INSTANTANEOUS LOW FLOW			.16	Oct 3	.00	Jun 23 1951
ANNUAL RUNOFF (AC-FT)	3430		4750		8640	
10 PERCENT EXCEEDS	18		24		28	
50 PERCENT EXCEEDS	2.4		2.1		3.1	
90 PERCENT EXCEEDS	.43		.68		.48	

e Estimated
a From rating curve extended above 230 ft^3/s, on basis of slope-area measurement at gage heights 3.56 ft, 5.80 ft, 7.15 ft, and 11.13 ft.

07208500 RAYADO CREEK NEAR CIMARRON, NM
(Formerly Rayado Creek at Sauble Ranch, near Cimarron, NM)

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

DRAINAGE AREA.--65 mi^2.

PERIOD OF RECORD.--January 1909 to February 1910, June to August 1910, May 1911 to May 1913, July 1913 to February 1915, October 1915 to September 1918, March 1919 to September 1920, June 1923 to September 1924, March to May 1927, August 1927 to current year. Monthly discharge only for some periods, published in WSP 1311. Records for April and May 1910, published in WSP 287, are unreliable and should not be used. Published as Rayado River "at," "near," or "above" Abreús Ranch near Cimarron prior to October 1925 and as Rayado River at Sauble Ranch, near Cimarron, October 1925 to September 1952. From September 1952 to September 1997 as Rayado Creek at Sauble Ranch near Cimarron, NM.

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

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	10	e4.4	4.5	e3.5	7.3	22	43	12	5.4	5.3	5.6
2	1.9	9.2	e4.3	4.3	e3.3	5.6	30	44	11	6.5	5.0	4.7
3	1.8	8.8	e4.5	e4.7	e3.3	7.4	35	44	9.9	6.1	5.5	5.3
4	2.0	8.2	e4.1	e4.8	e3.6	5.2	34	43	9.3	6.1	4.7	4.5
5	2.3	8.1	e4.8	e3.9	3.5	4.8	33	42	9.0	5.2	4.2	4.2
6	2.4	7.5	e4.9	3.9	e4.3	4.8	32	39	8.7	4.7	4.0	4.2
7	2.5	6.8	e4.2	e4.5	e3.3	5.1	28	38	8.5	4.4	3.9	3.7
8	2.7	7.1	4.7	e5.2	4.1	5.4	28	34	9.4	4.3	3.8	3.6
9	2.9	6.8	4.4	e5.0	e4.0	5.7	27	32	11	4.2	5.3	3.7
10	2.8	8.4	4.3	e4.1	e5.2	6.2	27	31	8.3	4.1	9.4	3.6
11	2.7	6.3	4.5	e4.8	e4.2	6.6	25	31	7.6	4.9	12	3.4
12	3.2	7.1	5.3	e5.4	e3.3	5.7	25	31	7.0	5.0	7.6	3.3
13	3.9	e5.5	e4.6	e4.3	e4.7	6.1	23	30	6.7	5.7	8.2	3.5
14	3.1	e6.2	e5.4	e5.5	4.5	7.2	24	30	6.6	5.7	8.6	4.8
15	2.9	e5.0	e4.5	e4.6	e4.4	8.5	24	30	6.5	4.5	6.9	4.1
16	2.9	e6.4	e5.1	3.8	e4.5	8.8	26	30	6.2	4.2	6.2	3.8
17	2.9	e5.2	e5.4	e3.9	e4.6	7.2	29	30	6.0	4.2	5.5	3.6
18	2.9	e5.4	e5.7	e4.1	4.5	6.7	32	28	5.7	4.4	5.1	3.4
19	2.9	e5.7	4.2	e4.0	4.6	6.4	36	26	5.5	4.5	5.0	3.2
20	3.0	e5.1	4.5	e4.2	4.7	7.2	41	26	5.6	4.8	4.8	3.2
21	3.2	e6.4	e5.0	e4.3	5.0	10	39	24	5.9	7.6	4.6	3.4
22	3.6	5.4	5.9	e4.0	4.9	14	38	22	7.6	6.4	4.3	3.4
23	14	5.3	6.1	e3.8	5.2	16	36	20	6.0	5.3	4.1	3.2
24	22	e6.2	e5.7	e4.0	5.4	19	36	18	6.0	5.8	3.9	3.2
25	10	e5.5	e5.4	e3.8	e5.2	24	35	18	5.9	6.2	4.1	3.3
26	7.7	e5.7	5.8	e3.6	5.0	39	35	16	6.4	6.3	4.5	3.3
27	6.7	6.2	5.2	3.7	4.9	37	38	15	6.5	6.7	4.0	3.0
28	25	4.8	4.9	e3.5	4.9	30	43	14	5.6	7.1	3.9	3.1
29	21	e5.5	5.2	e4.2	---	25	42	14	5.9	6.2	4.1	3.0
30	15	4.7	5.0	e4.0	---	21	43	13	5.8	6.5	4.6	2.9
31	12	---	4.6	e3.8	---	19	---	12	---	5.7	5.3	---
TOTAL	194.1	194.5	152.6	132.2	122.6	381.9	966	868	222.1	168.7	168.4	111.2
MEAN	6.26	6.48	4.92	4.26	4.38	12.3	32.2	28.0	7.40	5.44	5.43	3.71
MAX	25	10	6.1	5.5	5.4	39	43	44	12	7.6	12	5.6
MIN	1.8	4.7	4.1	3.5	3.3	4.8	22	12	5.5	4.1	3.8	2.9
AC-FT	385	386	303	262	243	757	1920	1720	441	335	334	221

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2001, BY WATER YEAR (WY)

MEAN	5.86	5.09	4.03	3.69	4.09	7.89	30.8	52.5	22.8	10.4	11.6	7.23
MAX	30.4	20.0	12.4	8.01	8.68	23.7	144	287	231	54.7	71.5	33.0
(WY)	1942	1942	1987	1942	1987	1939	1987	1941	1965	1969	1965	1991
MIN	1.23	1.40	1.27	1.58	1.95	2.98	5.20	3.65	1.79	1.42	2.10	.88
(WY)	1957	1957	1957	1957	1951	1951	1956	1967	1956	1956	1956	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1912 - 2001	
ANNUAL TOTAL	3087.2		3682.3			
ANNUAL MEAN	8.43		10.1		13.8	
HIGHEST ANNUAL MEAN					41.6	1965
LOWEST ANNUAL MEAN					2.83	1956
HIGHEST DAILY MEAN	44	Apr 14	44	May 2	2000	Jun 18 1965
LOWEST DAILY MEAN	1.8	Oct 3	1.8	Oct 3	.40	Nov 16 1956
ANNUAL SEVEN-DAY MINIMUM	2.1	Sep 28	2.2	Oct 1	.67	Sep 15 1956
MAXIMUM PEAK FLOW			48	Apr 27	[a]9000	Jun 17 1965
MAXIMUM PEAK STAGE			2.97	Apr 27	[b]11.50	Jun 17 1965
INSTANTANEOUS LOW FLOW			1.7	Oct 2	[c].03	Dec 3 1950
ANNUAL RUNOFF (AC-FT)	6120		7300		10030	
10 PERCENT EXCEEDS	23		30		30	
50 PERCENT EXCEEDS	5.1		5.4		5.5	
90 PERCENT EXCEEDS	2.8		3.4		2.7	

e Estimated
a From rating curve extended above 70 ft^3/s, on basis of field estimate of peak flow.
b From floodmarks.
c Also may have been less during periods of ice effect.

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 mi^2.

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

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

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

REMARKS.--Records good except for those estimated, which are poor. 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 exceeded 10,000 ft^3/s, but probably was less than the 1965 flood.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	3.2	e2.6	4.4	6.2	9.3	17	3.5	3.5	3.6	.28	.25
2	.04	2.5	2.6	4.3	6.5	8.5	19	3.2	2.9	4.1	.31	.25
3	.05	2.3	2.7	4.5	6.9	8.4	13	3.3	2.6	3.2	.59	.29
4	.05	2.3	3.7	e4.2	7.2	7.5	7.5	5.9	3.3	1.4	.19	.23
5	.05	2.2	4.6	e4.2	9.0	7.7	6.5	8.5	3.3	.72	.12	.20
6	.06	2.2	4.7	e4.4	9.4	7.9	6.6	8.3	6.9	.45	.11	.20
7	.10	2.7	4.7	e4.4	10	9.4	7.0	6.5	5.3	.31	.11	.16
8	.13	2.9	4.7	e4.2	9.9	19	7.6	6.7	3.9	.24	.09	.18
9	.13	3.0	e4.6	e4.4	8.5	28	7.7	5.7	4.4	.22	.15	.21
10	.13	2.9	e4.4	4.6	8.5	23	7.8	5.0	3.0	.18	.28	.19
11	.12	3.1	e4.2	4.7	8.8	19	7.3	8.0	2.3	.20	.20	.17
12	.17	2.7	e4.0	4.8	9.0	17	6.4	39	1.7	.19	.17	.17
13	.13	2.6	e3.8	4.8	9.7	15	7.2	22	1.2	.17	.12	.33
14	.09	2.7	e3.6	e4.5	11	13	7.9	11	.76	.66	.10	.28
15	.10	2.4	e3.5	e4.4	11	13	5.7	7.3	.50	.60	.08	.24
16	.12	2.5	e3.2	e4.4	12	12	5.4	5.9	.42	.48	.08	.51
17	.17	2.5	e3.0	e4.5	12	13	7.9	5.1	.34	.45	.08	.56
18	.20	2.6	e3.3	e4.6	14	13	16	4.8	.29	.44	.07	.45
19	.23	2.6	e4.0	e4.6	20	12	9.7	4.2	.24	.36	.07	.51
20	.20	2.6	4.2	e4.8	20	11	7.3	5.7	.31	.50	.05	.36
21	.20	2.5	4.5	e4.6	16	11	7.1	5.6	.27	.60	.04	.32
22	.57	2.7	4.3	e4.8	12	12	6.4	5.2	.37	.91	.04	.29
23	5.8	2.8	4.3	e5.0	11	13	6.4	5.7	.43	1.4	.04	.27
24	14	2.7	e4.3	e5.0	10	16	6.6	4.2	.34	1.5	.03	.26
25	6.7	2.8	e4.2	5.2	9.1	18	6.0	3.5	.25	1.6	6.8	.26
26	3.4	2.7	e3.9	e5.2	8.1	22	4.6	4.8	.25	2.0	2.4	.25
27	2.8	2.8	e3.8	e5.6	8.7	29	3.6	4.6	.28	2.4	3.8	.35
28	4.8	2.8	e4.0	e5.4	9.1	27	3.8	3.9	.73	.99	1.2	.19
29	10	2.8	e4.0	e5.1	---	24	3.8	3.4	.75	.48	.75	.20
30	5.0	e2.6	e4.2	e5.2	---	21	3.7	3.1	1.3	.40	.47	.27
31	3.5	---	e4.3	e5.6	---	19	---	3.4	---	.54	.33	---
TOTAL	59.09	79.7	121.9	146.4	293.6	478.7	232.5	217.0	52.13	31.29	19.15	8.40
MEAN	1.91	2.66	3.93	4.72	10.5	15.4	7.75	7.00	1.74	1.01	.62	.28
MAX	14	3.2	4.7	5.6	20	29	19	39	6.9	4.1	6.8	.56
MIN	.04	2.2	2.6	4.2	6.2	7.5	3.6	3.1	.24	.17	.03	.16
AC-FT	117	158	242	290	582	950	461	430	103	62	38	17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2001, BY WATER YEAR (WY)

MEAN	8.76	8.69	7.86	8.04	8.31	10.9	33.0	90.6	43.4	11.7	17.3	12.5
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1908 - 2001	
ANNUAL TOTAL	3077.64		1739.86			
ANNUAL MEAN	8.41		4.77		22.0	
HIGHEST ANNUAL MEAN					139	1994
LOWEST ANNUAL MEAN					.90	1957
HIGHEST DAILY MEAN	52	Apr 12	39	May 12	10500	Jun 18 1965
LOWEST DAILY MEAN	.04	Oct 2	.03	Aug 24	.00	Sep 2 1954
ANNUAL SEVEN-DAY MINIMUM	.06	Oct 1	.05	Aug 18	.00	Sep 16 1954
MAXIMUM PEAK FLOW			73	May 12	[a]29500	Jun 18 1965
MAXIMUM PEAK STAGE			4.36	May 12	[b]19.96	Jun 18 1965
INSTANTANEOUS LOW FLOW			.02	Aug 24	.02	Aug 24 2001
ANNUAL RUNOFF (AC-FT)	6100		3450		15930	
10 PERCENT EXCEEDS	24		11		29	
50 PERCENT EXCEEDS	4.2		3.5		4.1	
90 PERCENT EXCEEDS	.16		.17		1.1	

e Estimated
a From rating curve extended above 1,800 ft^3/s, on basis of contracted-opening measurement of peak flow.
b From floodmarks.

07211500 CANADIAN RIVER NEAR TAYLOR SPRINGS, NM

LOCATION.--Lat 36°17'49", long 104°29'36", in $NW^1/_4SE^1/_4$ sec.21, T.24 N., R.23 E., Colfax County, Hydrologic Unit 11080003, on left bank at head of gorge, 2.1 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 mi^2.

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 with satellite telemetry. 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 good except for those estimated, which are poor. Diversions for irrigation of about 30,000 acres upstream from station. Several observations of water temperature were made during the year. 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 ft^3/s in WSP 842, 847.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	e18	e12	e9.0	e5.00	8.1	40	8.9	9.8	.32	.31	1.6
2	.08	e15	e10	e8.0	e6.00	7.5	46	7.6	9.5	1.7	.31	.95
3	.06	e14	e10	e10	e8.80	9.3	46	7.2	7.0	50	.30	.68
4	.06	e13	e9.0	e11	e7.70	8.1	34	12	6.1	9.7	1.3	.59
5	.05	e13	e10	e10	e13.0	14	30	18	5.3	2.6	.79	.72
6	.07	e11	12	e10	e13	23	28	20	6.9	.93	.36	.59
7	.11	e13	14	e11	e15	25	29	22	7.2	.53	.25	.40
8	.15	e14	16	e10	e11.0	55	29	19	4.9	.29	.15	.33
9	.16	e12	18	e11	e8.00	84	28	17	5.0	.15	.17	.41
10	.17	e13	e16	e11	e10.0	70	24	16	11	.11	159	.30
11	.14	e13	e10	e12	e10	56	20	15	5.6	.07	16	.26
12	e.12	e12	e9.0	e11	e8.00	49	17	97	3.3	.10	19	.21
13	.19	e12	e11	e14	e12	39	17	68	2.3	.09	7.5	.17
14	.13	e11	e12	e11	e18	34	20	34	1.5	.10	3.5	.20
15	.13	e12	e13	e9.0	e13.0	29	17	21	1.0	.10	3.4	.19
16	.20	e10	e13	e8.0	e8.00	28	14	15	.88	2.2	1.4	.14
17	.29	e10	e13	e7.0	e10.0	29	16	15	.57	4.5	.83	.19
18	.42	e11	e13	e6.0	e13.0	32	28	15	.69	1.5	.44	.43
19	.39	e10	e11	e5.0	e18.0	31	25	11	.45	.68	.26	.24
20	.35	e10	e10	e6.0	e25.0	30	15	12	1.3	.47	.15	.24
21	.30	e10	e12	e8.0	e19.0	27	13	13	.92	.25	.10	.26
22	.48	e15	e11	e9.0	e15.0	26	13	11	.53	.17	.08	.23
23	97	e13	e11	e10	e17.0	26	13	12	.43	.16	.06	.17
24	168	e10	e12	e10	e10.0	32	15	13	.69	.75	.04	.09
25	79	e12	e11	e10	5.8	36	14	11	1.5	.99	313	.08
26	26	e11	e10	e9.0	6.4	42	12	11	.77	1.0	30	.09
27	e15	e12	e8.8	e9.0	4.1	59	10	11	.42	4.9	6.2	.08
28	79	e12	e10	e8.0	3.4	60	11	12	.23	3.7	5.2	.06
29	e88	e11	e9.0	e8.0	---	55	11	11	.21	1.4	3.9	.05
30	e49	e12	e10	e9.00	---	53	9.7	11	.34	.69	2.4	.07
31	e28	---	e9.2	e8.80	---	46	---	9.8	---	.33	1.7	---
TOTAL	633.15	365	356.0	288.80	313.20	1123.0	644.7	576.5	96.33	90.48	578.10	10.02
MEAN	20.4	12.2	11.5	9.32	11.2	36.2	21.5	18.6	3.21	2.92	18.6	.33
MAX	168	18	18	14	25	84	46	97	11	50	313	1.6
MIN	.05	10	8.8	5.0	3.4	7.5	9.7	7.2	.21	.07	.04	.05
AC-FT	1260	724	706	573	621	2230	1280	1140	191	179	1150	20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	37.8	23.8	21.3	22.1	25.5	29.3	123	244	139	89.0	118	76.3
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	12000.54		5075.28			
ANNUAL MEAN	32.8		13.9		79.5	
HIGHEST ANNUAL MEAN					564	1942
LOWEST ANNUAL MEAN					7.60	1975
HIGHEST DAILY MEAN	270	Jun 29	313	Aug 25	43000	Jun 18 1965
LOWEST DAILY MEAN	.03	Sep 22	.04	Aug 24	.00	Jun 29 1946
ANNUAL SEVEN-DAY MINIMUM	.05	Sep 19	.07	Sep 24	.00	Jun 24 1953
MAXIMUM PEAK FLOW			2800	Aug 25	[a]162000	Jun 18 1965
MAXIMUM PEAK STAGE			8.66	Aug 25	[b]47.40	Jun 18 1965
INSTANTANEOUS LOW FLOW			.04	Oct		
ANNUAL RUNOFF (AC-FT)	23800		10070		57630	
10 PERCENT EXCEEDS	80		29		127	
50 PERCENT EXCEEDS	16		10		16	
90 PERCENT EXCEEDS	.21		.17		2.8	

e Estimated
a From rating curve extended 7,000 ft^3/s, on basis of slope-area measurement of peak flow.
b From floodmarks.

07215500 MORA RIVER AT LA CUEVA, NM

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

DRAINAGE AREA.--173 mi^2.

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

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

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

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 29, 1904, may have exceeded 20,000 ft^3/s; another major flood occurred June 11, 1913, but is believed less than that of 1904.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	1.4	e1.1	e1.0	e2.0	5.7	10	15	60	25	13	17
2	5.8	3.1	e1.0	e1.1	e2.2	5.7	10	16	55	27	13	16
3	2.4	3.8	e.96	e1.2	e2.3	5.5	11	14	52	28	15	17
4	3.0	2.6	e1.0	e1.3	e2.4	5.4	11	15	47	24	16	16
5	2.7	2.7	1.1	e1.8	e2.6	5.4	11	18	46	23	13	14
6	3.0	2.7	1.1	e2.5	e8.0	5.4	11	16	38	22	11	12
7	4.2	1.7	1.0	e2.2	e7.4	6.5	11	16	36	21	11	11
8	5.5	1.4	1.1	e2.1	6.8	8.1	12	16	39	20	12	10
9	10	1.9	e.98	e2.1	5.4	14	11	17	38	19	12	10
10	14	1.5	e.96	e2.2	7.3	18	11	17	34	18	18	9.6
11	14	e1.9	e.94	e2.3	5.3	13	10	18	31	19	15	9.2
12	15	e1.8	e1.0	e2.2	e5.5	9.2	11	18	29	18	13	8.7
13	14	e1.5	e.99	e2.5	e6.0	7.6	13	18	30	19	12	8.8
14	14	e1.4	e1.1	e2.2	e7.0	6.8	12	17	33	20	18	8.9
15	14	e1.3	e1.3	e2.1	4.9	6.0	11	22	31	18	26	8.3
16	8.4	e1.4	e1.2	e2.3	5.1	5.9	10	32	32	18	26	8.5
17	.61	1.0	e.92	e2.0	4.6	6.4	12	41	30	18	17	7.1
18	3.4	e.95	e.94	e1.7	5.1	6.6	16	44	30	18	16	5.9
19	2.5	e.98	e1.0	e1.8	5.0	6.4	11	52	31	18	15	5.5
20	1.4	e1.0	e1.1	e2.0	4.9	6.1	10	51	33	17	16	5.4
21	.80	e1.2	e1.0	e2.1	5.2	6.2	13	56	32	17	14	5.2
22	1.3	e1.4	e.98	e2.3	5.0	6.0	12	45	32	18	14	4.1
23	14	e1.2	e1.0	e2.4	5.2	6.1	11	45	29	16	13	5.3
24	12	e1.0	e1.1	e2.1	4.9	6.5	15	48	28	17	12	9.3
25	.75	e.98	e1.0	e2.4	5.2	6.6	14	45	28	18	12	10
26	.86	e1.0	e.98	e2.1	5.3	6.8	14	56	35	17	13	9.5
27	1.4	e1.1	e1.1	e2.4	5.2	7.7	14	58	32	19	13	9.8
28	22	e1.0	e1.2	e2.0	5.5	7.4	14	60	28	17	14	9.2
29	4.9	e1.1	e1.1	e2.5	---	9.7	14	66	25	16	14	4.1
30	1.6	e1.2	e1.0	e2.3	---	11	12	63	26	15	14	5.3
31	1.5	---	e1.1	e2.1	---	11	---	61	---	15	13	---
TOTAL	208.62	47.21	32.35	63.3	141.3	238.7	358	1076	1050	595	454	280.7
MEAN	6.73	1.57	1.04	2.04	5.05	7.70	11.9	34.7	35.0	19.2	14.6	9.36
MAX	22	3.8	1.3	2.5	8.0	18	16	66	60	28	26	17
MIN	.61	.95	.92	1.0	2.0	5.4	10	14	25	15	11	4.1
AC-FT	414	94	64	126	280	473	710	2130	2080	1180	901	557
(+)	514	688	516	463	228	326	207	83	838	1220	720	426

CAL YR 2000 (+) 4160 WTR YR (+) 6230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 2001, BY WATER YEAR (WY)

MEAN	17.3	11.1	8.57	8.07	7.79	10.9	33.3	79.4	66.6	34.7	44.7	28.5
MAX	87.6	60.7	39.4	21.9	25.5	51.2	244	555	314	142	182	111
(WY)	1942	1942	1907	1907	1907	1987	1942	1941	1941	1911	1961	1991
MIN	.64	.38	.55	.000	.52	1.05	2.05	1.53	1.11	3.02	1.43	.46
(WY)	1957	1957	1957	1908	1957	1957	1933	1967	1956	1934	1956	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1906 - 2001	
ANNUAL TOTAL	3308.33		4545.18			
ANNUAL MEAN	9.04		12.5		29.2	
HIGHEST ANNUAL MEAN					113	1941
LOWEST ANNUAL MEAN					3.12	1956
HIGHEST DAILY MEAN	57	Jul 17	66	May 29	1060	Apr 23 1942
LOWEST DAILY MEAN	.51	Mar 14	.61	Oct 17	.00	Dec 22 1907
ANNUAL SEVEN-DAY MINIMUM	.74	Jan 13	.99	Dec 17	.00	Dec 22 1907
MAXIMUM PEAK FLOW			76	Aug 15	1530	Sep 23 1941
MAXIMUM PEAK STAGE			2.39	Aug 15	7.58	Sep 23 1941
INSTANTANEOUS LOW FLOW			.36	Oct 17	.00	Dec 22 1907
ANNUAL RUNOFF (AC-FT)	6560		9020		21180	
10 PERCENT EXCEEDS	18		30		75	
50 PERCENT EXCEEDS	8.7		9.5		12	
90 PERCENT EXCEEDS	1.0		1.1		1.7	

e Estimated
(+) Diversion, in acre-feet, by La Cueva Canal.

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

DRAINAGE AREA.--267 mi^2.

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 with satellite telemetry. 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 those estimated, 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. No flow at times some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of Sept. 29, 1904, and June 11, 1913, probably exceeded 25,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	4.9	3.8	6.5	e10	10	17	7.4	45	17	8.5	21
2	3.8	4.4	3.9	6.9	e11	11	11	11	45	18	7.8	22
3	3.2	4.9	3.9	7.1	e12	e9.6	11	10	40	22	11	22
4	2.7	5.7	3.8	6.9	e13	9.5	11	13	33	18	12	21
5	2.6	5.3	3.8	6.5	e13	8.8	11	20	32	15	15	18
6	2.7	5.4	3.7	7.4	13	9.0	13	14	27	15	11	11
7	3.2	6.1	3.8	7.9	14	e9.6	13	9.9	25	13	11	11
8	2.9	5.6	3.8	7.8	e16	e9.2	12	5.3	25	15	11	10
9	4.2	6.0	3.8	8.2	e15	e9.0	12	6.5	29	12	12	10
10	13	6.2	3.8	7.6	17	e10	14	9.4	24	9.0	22	11
11	8.5	5.8	3.7	6.0	16	e11	14	9.8	22	9.3	19	11
12	13	5.0	3.8	8.3	14	e13	14	14	20	11	20	8.6
13	12	4.6	4.0	e7.2	e15	e15	14	12	22	12	17	9.7
14	7.5	4.4	3.9	5.2	e14	e20	12	11	25	16	26	13
15	8.2	4.2	3.9	5.0	e14	18	11	13	25	14	24	12
16	8.8	4.1	3.9	e6.0	e13	15	10	23	26	13	39	12
17	4.5	4.1	5.8	e7.0	13	15	13	32	24	13	25	9.7
18	4.9	4.0	4.1	e7.2	16	15	15	35	23	13	21	8.6
19	5.2	3.9	4.3	e7.4	e17	17	12	39	24	8.5	21	6.5
20	5.1	3.9	e4.1	e7.8	e14	16	12	42	24	9.0	22	7.3
21	5.1	3.9	4.6	e8.2	e13	17	12	43	28	9.8	21	8.6
22	4.7	3.9	4.8	e8.4	e12	19	12	37	28	13	21	4.7
23	20	4.0	4.4	e9.0	e11	19	11	30	23	10	18	5.3
24	33	4.0	4.5	e9.2	e10	18	13	35	23	12	18	5.2
25	8.0	3.9	4.1	e9.6	e9.7	18	14	37	22	14	17	10
26	6.0	3.9	4.5	e9.3	e9.4	19	14	43	21	9.3	18	9.1
27	6.9	3.9	6.7	e9.1	e8.9	20	13	46	30	15	16	4.6
28	34	3.9	7.4	e9.0	e9.0	18	12	46	20	15	18	7.7
29	20	3.9	6.5	e8.0	---	17	8.3	50	17	11	19	6.8
30	8.2	4.0	6.2	e8.4	---	19	6.0	48	17	9.6	21	4.1
31	6.3	---	6.2	e9.2	---	17	---	46	---	9.2	20	---
TOTAL	272.6	137.8	139.5	237.3	363.0	451.7	367.3	798.3	789	400.7	562.3	321.5
MEAN	8.79	4.59	4.50	7.65	13.0	14.6	12.2	25.8	26.3	12.9	18.1	10.7
MAX	34	6.2	7.4	9.6	17	20	17	50	45	22	39	22
MIN	2.6	3.9	3.7	5.0	8.9	8.8	6.0	5.3	17	8.5	7.8	4.1
AC-FT	541	273	277	471	720	896	729	1580	1560	795	1120	638

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2001, BY WATER YEAR (WY)

MEAN	21.9	14.5	11.9	12.0	11.4	13.1	43.7	92.9	74.9	40.6	56.5	33.8
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1915 - 2001	
ANNUAL TOTAL	3125.3		4841.0			
ANNUAL MEAN	8.54		13.3		34.9	
HIGHEST ANNUAL MEAN					144	1941
LOWEST ANNUAL MEAN					3.42	1956
HIGHEST DAILY MEAN	48	Mar 24	50	May 29	1750	Apr 23 1942
LOWEST DAILY MEAN	2.0	Sep 23	2.6	Oct 5	.00	May 4 1917
ANNUAL SEVEN-DAY MINIMUM	2.3	Sep 19	3.0	Oct 2	.00	Aug 4 1917
MAXIMUM PEAK FLOW			74	Oct 28	[a]14000	Aug 22 1952
MAXIMUM PEAK STAGE			1.83	Oct 28	[b]14.40	Aug 22 1952
INSTANTANEOUS LOW FLOW			.90	Dec 16	.90	Dec 16 2000
ANNUAL RUNOFF (AC-FT)	6200		9600		25310	
10 PERCENT EXCEEDS	17		24		90	
50 PERCENT EXCEEDS	5.8		11		14	
90 PERCENT EXCEEDS	3.8		4.1		2.2	

e Estimated
a From rating curve extended above 660 ft^3/s, on basis of slope-area measurement of peak flow.
b Site and datum then in use.

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 mi^2.

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 with satellite telemetry. 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, June 7, 2000, at site 250 ft downstream at a 2.00 ft lower datum.

REMARKS.--Records good except for those estimated, 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	4.9	e11	e11	e11	e11	16	2.2	4.0	.75	.59	2.0
2	2.2	4.9	e10	e12	e12	e11	10	1.7	3.8	.77	.60	2.0
3	1.7	5.3	e10	e11	e14	e12	5.2	2.5	3.8	.76	.65	1.4
4	1.4	5.6	e11	e12	e13	e13	4.6	4.5	3.7	.72	.67	.80
5	1.4	5.1	e10	e10	e15	13	3.4	6.4	3.6	.67	.64	.80
6	1.6	5.3	e12	e11	e13	12	2.9	7.0	3.7	.67	.61	.84
7	2.6	6.2	e13	e11	e15	e17	2.6	6.3	3.9	.68	.61	.82
8	2.7	e5.9	e12	e10	e16	e18	2.5	11	3.4	.70	.58	.87
9	2.4	e5.9	e11	e11	e13	e19	2.5	8.7	2.6	.70	1.0	.99
10	1.7	e5.6	e11	e9.0	e12	e18	2.6	8.7	2.3	.70	.87	.89
11	1.7	6.3	e12	e10	e14	e18	2.8	7.7	1.7	.71	.72	.73
12	2.0	6.3	e10	e11	e15	e17	2.7	6.9	1.5	.73	.72	.86
13	1.9	e7.0	e11	13	e14	e16	3.0	7.2	1.5	.76	.71	1.5
14	1.6	e6.0	e12	e12	e13	e15	3.2	8.1	1.4	.82	.87	1.6
15	1.6	e7.0	e12	e11	e15	20	3.1	5.6	1.3	.77	.77	1.8
16	1.6	e6.0	e10	e10	e15	8.5	2.8	4.3	1.1	.72	.74	1.8
17	1.6	e7.0	e9.0	e10	e16	11	2.5	4.4	1.0	.73	.70	2.0
18	2.4	e7.0	e10	e9.0	e16	12	2.5	4.1	.93	.78	.68	2.0
19	2.8	e7.0	e9.0	e9.0	e18	8.6	2.5	4.1	.86	.72	1.3	1.3
20	2.7	e7.0	e8.0	e10	e17	8.8	2.0	4.1	.82	.71	1.9	.77
21	2.7	e8.0	e9.0	e10	e16	8.4	1.4	4.2	.97	.71	1.9	.72
22	2.8	e9.0	e10	e10	e15	13	1.3	5.2	1.2	.61	1.9	.76
23	8.0	e9.0	e12	e11	e15	14	1.3	3.7	1.1	.59	1.9	.96
24	7.4	e8.0	e11	e12	e16	16	1.5	3.1	1.1	.59	1.8	1.2
25	3.8	e9.0	e11	e13	e11	27	1.5	3.6	1.0	.58	2.0	.93
26	3.3	e8.0	e12	e15	14	26	1.4	4.0	1.0	.58	2.1	.88
27	3.6	e9.0	e10	e13	13	49	1.4	3.9	1.0	.60	2.0	1.2
28	8.8	e10	e11	e12	e15	49	1.4	3.8	.92	.64	2.0	.99
29	11	e10	e10	e13	---	38	3.0	3.8	.77	.80	2.0	1.1
30	6.3	e10	e11	e15	---	31	3.2	4.4	.77	.62	2.1	1.2
31	5.2	---	e12	e13	---	23	---	4.3	---	.59	2.1	---
TOTAL	102.8	211.3	333.0	350.0	402	573.3	96.8	159.5	56.74	21.48	37.73	35.71
MEAN	3.32	7.04	10.7	11.3	14.4	18.5	3.23	5.15	1.89	.69	1.22	1.19
MAX	11	10	13	15	18	49	16	11	4.0	.82	2.1	2.0
MIN	1.4	4.9	8.0	9.0	11	8.4	1.3	1.7	.77	.58	.58	.72
AC-FT	204	419	661	694	797	1140	192	316	113	43	75	71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2001, BY WATER YEAR (WY)

MEAN	9.29	9.11	8.25	7.81	8.05	9.74	20.2	31.4	16.5	9.12	17.2	11.7
MAX	80.4	53.9	24.2	19.7	19.4	77.6	195	219	181	67.0	150	150
(WY)	1942	1942	1942	1992	1985	1987	1987	1941	1995	1941	1991	1991
MIN	.72	1.71	1.59	1.64	1.12	1.02	.32	.53	.23	.69	.78	.65
(WY)	1957	1935	1955	1957	1955	1967	1978	1967	1940	2001	1956	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1930 - 2001	
ANNUAL TOTAL	2010.69		2380.36			
ANNUAL MEAN	5.49		6.52		13.2	
HIGHEST ANNUAL MEAN					52.9	1942
LOWEST ANNUAL MEAN					2.33	1978
HIGHEST DAILY MEAN	28	Apr 13	49	Mar 27	1290	Sep 10 1991
LOWEST DAILY MEAN	.99	Sep 24	.58	Jul 25	.00	Aug 4 1945
ANNUAL SEVEN-DAY MINIMUM	1.1	Sep 20	.60	Jul 22	.10	Jul 20 1939
MAXIMUM PEAK FLOW			56	Mar 28	[a]4050	Aug 17 1961
MAXIMUM PEAK STAGE			2.84	Mar 28	[b]10.10	Aug 30 1936
INSTANTANEOUS LOW FLOW			.53	Jul 23	.00	Aug 4 1945
ANNUAL RUNOFF (AC-FT)	3990		4720		9580	
10 PERCENT EXCEEDS	12		14		24	
50 PERCENT EXCEEDS	3.7		4.0		5.7	
90 PERCENT EXCEEDS	1.6		.73		1.2	

e Estimated
a From rating curve extended above 250 ft^3/s, on basis of slope-area measurement at gage heights 5.54 ft, 7.74 ft, and 9.60 ft.
b Site and datum then in use.

07221500 CANADIAN RIVER NEAR SANCHEZ, NM

LOCATION.--Lat 35°39'08", long 104°22'39", in SW$^1/_4$ 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 mi^2, of which 303 mi^2 is probably noncontributing.

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 with satellite telemetry. 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.--Records good. Diversions for irrigation of about 56,000 acres upstream from station. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Sept. 29, or 30, 1904, probably exceeded 100,000 ft^3/s, but is believed to have been less than the peak of June 18, 1965.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	103	29	48	45	102	123	19	20	2.5	17	39
2	.00	76	30	45	42	98	114	17	17	1.9	11	33
3	.00	57	33	38	51	97	102	17	11	1.3	7.9	29
4	.00	46	33	38	50	94	87	21	8.0	1.6	3.5	24
5	.00	36	33	40	51	90	78	27	8.1	1.8	2.2	19
6	.00	30	31	41	60	86	77	25	8.3	.88	1.1	16
7	.00	30	33	43	71	84	65	24	15	.22	3.0	11
8	.00	30	31	44	100	135	58	24	25	.08	2.3	10
9	.00	27	29	43	143	318	50	24	28	.03	3.9	7.6
10	.00	25	30	47	139	389	43	25	16	.00	15	6.0
11	.00	25	29	45	127	278	39	34	16	.00	4.4	4.9
12	.00	24	32	41	118	245	38	46	12	.00	96	4.0
13	.00	28	34	40	119	203	37	36	9.6	.00	95	2.7
14	.00	29	36	45	163	172	35	35	7.9	.01	90	3.1
15	.00	30	34	39	300	152	31	55	5.2	.03	133	45
16	.00	29	33	45	376	141	28	64	3.3	.04	73	47
17	.00	28	29	46	228	138	25	48	1.7	.00	50	41
18	.00	27	30	40	175	128	25	41	1.4	.00	41	37
19	.00	25	25	42	157	118	26	36	1.5	.00	37	26
20	.00	23	33	39	161	111	25	33	1.2	.00	28	19
21	.00	24	31	36	169	107	20	38	.75	.00	20	13
22	.00	23	28	36	166	107	17	34	1.0	.72	15	9.8
23	34	23	27	45	151	108	30	29	.90	1.0	11	7.4
24	409	24	29	35	139	102	28	25	.38	.77	8.7	4.9
25	227	25	39	43	122	110	22	19	.92	.23	6.9	3.9
26	153	24	46	39	114	108	19	17	.64	.23	399	3.5
27	123	24	48	43	105	107	19	17	.15	.56	306	2.6
28	82	27	47	50	104	112	18	18	.33	69	129	2.0
29	126	26	40	45	---	117	19	20	1.0	83	70	2.0
30	153	29	26	40	---	135	20	16	4.1	42	48	1.5
31	146	---	36	43	---	130	---	18	---	32	43	---
TOTAL	1453.00	977	1024	1304	3746	4422	1318	902	226.37	239.90	1770.9	474.9
MEAN	46.9	32.6	33.0	42.1	134	143	43.9	29.1	7.55	7.74	57.1	15.8
MAX	409	103	48	50	376	389	123	64	28	83	399	47
MIN	.00	23	25	35	42	84	17	16	.15	.00	1.1	1.5
AC-FT	2880	1940	2030	2590	7430	8770	2610	1790	449	476	3510	942

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2001, BY WATER YEAR (WY)

MEAN	106	61.0	51.7	54.1	64.5	63.2	212	422	384	227	314	236
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	.13
(WY)	1957	1957	1957	1957	1957	1957	1936	1967	1974	1964	1980	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1913 - 2001	
ANNUAL TOTAL	18542.70		17858.07			
ANNUAL MEAN	50.7		48.9		185	
HIGHEST ANNUAL MEAN					1191	1942
LOWEST ANNUAL MEAN					19.7	1954
HIGHEST DAILY MEAN	409	Oct 24	409	Oct 24	50000	Jun 13 1913
LOWEST DAILY MEAN	.00	Jun 25	.00	Oct 1	.00	Apr 1 1936
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 6	.00	Oct 1	.00	Apr 1 1936
MAXIMUM PEAK FLOW			1730	Aug 26	[a]145000	Jun 18 1965
MAXIMUM PEAK STAGE			6.35	Aug 26	[b]36.60	Jun 18 1965
INSTANTANEOUS LOW FLOW			.00	Oct 1	.00	Sep 27 2000
ANNUAL RUNOFF (AC-FT)	36780		35420		134000	
10 PERCENT EXCEEDS	121		126		340	
50 PERCENT EXCEEDS	34		29		45	
90 PERCENT EXCEEDS	.00		.12		4.3	

a From rating curve extended above 91,000 ft^3/s, on basis of slope-area measurement of peak flow.
b From floodmarks, present site and datum.

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, 24.0 mi north of Newkirk, and at mile 746.0.

DRAINAGE AREA.--7,409 mi^2, of which 433 mi^2, 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 with satellite telemetry. 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. 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, 207,060 acre-ft, April 10, elevation, 4,187.65 ft; minimum, 115,550 acre-ft, Sept. 30 elevation, 4,170.61 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188810	187880	187880	188560	190810	197930	206390	201830	187200	171720	148360	132940
2	188130	188010	187880	188630	190870	197990	206460	200910	186650	170970	147600	132570
3	187450	188070	187950	188690	190940	198120	206660	200260	185970	170280	146830	132150
4	186830	188200	187880	188630	191000	198250	206730	200390	185360	169480	146070	131640
5	186090	188130	187820	188750	191120	198380	206730	199870	184740	168680	145320	131270
6	185480	188130	187820	188810	191120	198440	206860	199350	184190	167770	144360	130620
7	184930	188560	187880	188880	191320	198640	206920	198900	185170	166760	143220	129930
8	184500	188500	187820	188940	191560	199420	206860	198440	185300	165800	142720	129290
9	183950	188500	187880	189000	191690	200200	206860	198180	184930	164960	141980	128690
10	183400	188500	188010	189250	192000	200910	207060	197670	184440	164070	141290	128010
11	182860	188440	187820	189250	192260	201630	206730	197540	184070	163180	140700	127330
12	182490	188380	187950	189380	192440	202090	206730	197220	183460	162240	140110	126610
13	182190	188380	187950	189380	192760	202550	206660	196830	182800	161690	139530	125980
14	181770	188380	187950	189380	192820	202880	206590	196510	182250	160870	139330	125400
15	181350	188260	187880	189500	193200	203080	206660	196070	181710	159940	139240	124730
16	180860	188260	187760	189690	193900	203280	206520	195680	181100	159070	138850	124110
17	180500	188200	188010	189810	194600	203740	206520	195360	180380	158200	138850	123540
18	180260	188200	187820	189880	194980	203940	206460	194920	179720	157450	138320	123050
19	179840	188070	187880	189880	195170	204200	206390	194600	179190	156690	137930	122480
20	179660	188130	187760	189880	195360	204330	206260	194030	178530	156050	137500	121820
21	179660	188130	187820	189940	195740	204460	206190	193580	178410	155360	136970	121170
22	179780	188130	187820	190000	196070	204600	205730	193080	177760	154770	136440	120520
23	182370	188130	187820	190060	196380	204860	205790	192440	177160	154140	135920	119870
24	184620	188130	187820	190060	196510	204930	205390	191940	176400	153350	135350	119260
25	185970	188130	188010	190250	196830	205060	204930	191380	175750	152660	134730	118620
26	186400	188130	188320	190190	197090	205330	204400	190750	175040	152040	134210	118020
27	186830	188010	188380	190500	197350	205520	203870	190190	174570	151510	134300	117420
28	187820	187950	188440	190750	197730	205730	203410	189440	173870	151100	134300	116650
29	187820	188130	188440	190750	---	205920	203140	188750	173180	150420	134020	116100
30	188070	187880	188500	190690	---	206060	202550	188320	172420	149650	133740	115550
31	187700	---	188560	190810	---	206260	---	187760	---	149080	133360	---
MAX	188810	188560	188560	190810	197730	206260	207060	201830	187200	171720	148360	132940
MIN	179660	187880	187760	188560	190810	197930	202550	187760	172420	149080	133360	115550
(+)	4181.64	4184.67	4184.78	4185.14	4186.23	4187.53	4186.97	4184.65	4182.09	4177.82	4174.62	4170.61
(++)	-7700	+180	+680	+2250	+6920	+8530	-3710	-14790	-15340	-23340	-15720	-17810

CAL YR 2000 MAX 296700 MIN 179660 (++) -99340
WTR YR 2001 MAX 207060 MIN 115550 (++) -73850

(+) Elevation, in feet, at end of month
(++) Change in contents, in acre-feet

07226500 UTE CREEK NEAR LOGAN, NM

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

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

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

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

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

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 1, 1914, reached a stage of 22.95 ft at site and datum then in use. Another major flood reached a stage of 16.0 ft, 1942 datum, sometime in 1941, from information furnished by Bureau of Reclamation; discharge, about 70,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.8
2	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.9
3	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.54
4	.00	e.00	.00	.00	.00	.00	.00	1.7	.00	.00	.00	.01
5	.00	e.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	7.7	.00	.00	.91	.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	70	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.0	.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	719
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	236
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	77
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	24
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	15
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.7
23	447	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.3
24	652	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.30
25	158	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
26	e90	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
27	e60	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	e130	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	e90	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	e30	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	e5.0	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	1662.00	0.05	0.00	0.00	0.00	7.70	0.00	1.70	0.91	0.00	72.00	1088.55
MEAN	53.6	.002	.000	.000	.000	.25	.000	.055	.030	.000	2.32	36.3
MAX	652	.05	.00	.00	.00	7.7	.00	1.7	.91	.00	70	719
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	3300	.1	.00	.00	.00	15	.00	3.4	1.8	.00	143	2160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2001, BY WATER YEAR (WY)

MEAN	10.4	3.14	1.73	2.44	2.00	1.73	10.1	37.0	26.8	49.8	67.9	28.5
MAX	139	92.5	39.9	39.7	26.3	23.7	459	351	191	317	520	261
(WY)	1955	1979	1943	1942	1942	1948	1942	1955	1965	1950	1981	1969
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.027	.000
(WY)	1945	1946	1946	1946	1946	1946	1943	1945	1953	1946	1983	1948

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1942 - 2001	
ANNUAL TOTAL	1778.60		2832.91			
ANNUAL MEAN	4.86		7.76		19.3	
HIGHEST ANNUAL MEAN					57.2	1958
LOWEST ANNUAL MEAN					.084	1974
HIGHEST DAILY MEAN	652	Oct 24	719	Sep 17	7420	May 28 1946
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Jul 17 1942
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Mar 18 1943
MAXIMUM PEAK FLOW			1420	Oct 24	[a]24500	May 28 1946
MAXIMUM PEAK STAGE			3.26	Oct 24	[b]9.94	Aug 11 1981
INSTANTANEOUS LOW FLOW			.00	Oct 1		
ANNUAL RUNOFF (AC-FT)	3530		5620		13980	
10 PERCENT EXCEEDS	.00		.00		16	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
a From rating curve extended above 7,700 ft^3/s, on basis of slope-area measurement at gage heights 5.2 ft and 7.2 ft.
b Site and datum then in use.

07226800 UTE RESERVOIR NEAR LOGAN, NM

LOCATION.--Lat 35°20'35", long 103°26'37", in NW$^1/_4$ 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.--11,110 mi^2, of which 1,110 mi^2 is probably noncontributing.

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 with satellite telemetry. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Interstate Stream Commission). Prior to Feb. 25, 1974, nonrecording gage at same site and datum.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum contents, 197,100 acre-ft, Mar. 23, elevation, 3,780.58 ft; minimum, 177,700 acre-ft, Oct. 21, elevation, 3,777.65 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	179000	194000	193000	193000	193000	194000	197000	194000	193000	190000	186000	190000
2	179000	194000	193000	193000	193000	194000	197000	194000	193000	190000	186000	190000
3	179000	194000	193000	193000	193000	194000	197000	194000	193000	190000	186000	190000
4	179000	194000	193000	193000	194000	194000	197000	195000	193000	190000	185000	190000
5	179000	194000	193000	193000	194000	194000	197000	195000	193000	189000	185000	190000
6	178000	194000	193000	193000	194000	194000	197000	195000	193000	189000	185000	190000
7	178000	195000	193000	193000	194000	194000	197000	195000	193000	189000	185000	190000
8	178000	194000	193000	193000	194000	195000	197000	195000	193000	189000	185000	189000
9	178000	194000	193000	193000	194000	196000	196000	195000	193000	189000	185000	189000
10	178000	194000	193000	193000	194000	197000	196000	195000	193000	189000	184000	189000
11	178000	194000	193000	193000	194000	197000	196000	195000	193000	188000	185000	189000
12	178000	194000	193000	193000	194000	197000	196000	195000	193000	188000	186000	189000
13	178000	194000	193000	193000	194000	197000	196000	195000	192000	188000	186000	189000
14	178000	194000	193000	193000	194000	196000	196000	195000	192000	188000	186000	189000
15	178000	194000	193000	193000	194000	196000	196000	195000	192000	188000	186000	189000
16	178000	194000	193000	193000	194000	196000	195000	195000	192000	188000	186000	189000
17	178000	194000	193000	193000	194000	196000	195000	195000	192000	188000	186000	189000
18	178000	194000	193000	193000	194000	196000	196000	195000	191000	188000	186000	189000
19	178000	194000	193000	193000	194000	196000	195000	195000	191000	187000	186000	189000
20	178000	194000	193000	193000	193000	196000	195000	194000	191000	187000	185000	189000
21	178000	194000	193000	193000	193000	196000	195000	194000	191000	187000	185000	189000
22	178000	194000	193000	193000	194000	197000	195000	194000	191000	187000	185000	189000
23	182000	194000	192000	193000	194000	197000	195000	194000	191000	187000	185000	189000
24	190000	194000	193000	193000	194000	197000	195000	194000	191000	187000	185000	189000
25	191000	193000	192000	193000	194000	197000	195000	194000	191000	187000	187000	188000
26	192000	193000	193000	193000	194000	197000	195000	194000	191000	186000	190000	188000
27	191000	194000	193000	193000	194000	197000	194000	193000	191000	186000	191000	188000
28	192000	193000	193000	193000	194000	197000	194000	193000	191000	186000	191000	188000
29	194000	193000	193000	193000	---	197000	194000	194000	190000	186000	191000	188000
30	194000	193000	193000	193000	---	197000	194000	194000	190000	186000	191000	188000
31	195000	---	193000	193000	---	197000	---	193000	---	186000	190000	---
MAX	195000	195000	193000	193000	194000	197000	197000	195000	193000	190000	191000	190000
MIN	178000	193000	192000	193000	193000	194000	194000	193000	190000	186000	184000	188000
(+)	3780.21	3780.03	3779.99	3780.05	3780.15	3780.54	3780.17	3780.04	3779.55	3778.93	3779.60	3779.20
(++)	+15400	-1300	-200	+400	+700	+2600	-2500	-900	-3300	-4100	+4500	-2700

CAL YR 2000 MAX 237000 MIN 178000 (++) -44500
WTR YR 2001 MAX 197100 MIN 177700 (++) +8600

(+) Elevation in feet, at end of month.
(++) Change in contents, in acre-feet.

07227000 CANADIAN RIVER AT LOGAN, NM

LOCATION.--Lat 35°21'25", long 103°25'03", in NE$^1/_4$NE$^1/_4$ 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 mi^2, of which 1,110 mi^2 is probably noncontributing.

WATER-DISCHARGE RECORDS

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

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

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

REMARKS.--Water-discharge records good except for those estimated, which are poor. Flow regulated by Ute Reservoir, 2.0 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 278,000 ft^3/s, Sept. 30, 1904, gage height, about 36.5 ft, site and datum used in 1909, from rating curve extended above 14,000 ft^3/s, from Ninth Biennial Report of New Mexico State Engineer.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	8.3	3.7	3.5	3.6	3.7	8.9	3.4	3.1	3.1	2.8	3.1
2	3.4	8.4	3.7	3.4	3.7	5.0	7.9	3.3	3.1	3.0	2.9	3.1
3	3.4	8.3	3.7	3.5	3.7	7.9	7.8	3.1	2.7	3.0	3.0	3.1
4	3.2	6.7	3.7	3.6	3.7	7.9	7.7	4.6	2.2	3.0	3.0	e3.2
5	3.1	3.1	3.9	3.6	3.7	8.0	7.6	3.1	2.4	2.9	3.0	e3.1
6	3.1	4.7	7.9	3.7	4.2	8.0	7.4	3.1	2.4	2.8	3.0	e3.1
7	3.1	8.4	7.9	3.7	7.6	8.0	7.3	3.1	2.6	2.9	3.1	e3.1
8	3.1	6.3	8.1	3.7	8.2	11	6.8	3.1	3.1	3.0	3.1	e3.1
9	3.1	3.1	7.3	3.7	7.9	8.5	3.4	3.1	3.1	2.9	3.0	e3.0
10	3.1	3.9	3.7	3.7	7.8	8.0	3.2	3.1	3.1	3.0	3.1	e3.0
11	3.1	7.0	3.7	3.7	7.9	7.7	2.7	3.1	3.1	3.0	21	e3.0
12	3.1	7.8	3.7	3.6	8.0	6.7	3.4	3.1	2.7	3.0	4.8	e3.0
13	3.1	7.9	3.7	3.4	8.0	3.7	3.4	3.1	1.9	4.3	3.1	e3.0
14	3.1	7.7	3.7	3.5	7.9	3.5	3.9	3.1	1.8	3.1	3.1	e3.3
15	3.1	6.6	3.7	4.2	7.9	3.1	6.9	3.1	1.9	3.1	3.1	e3.1
16	6.7	3.1	3.7	6.1	7.8	3.4	7.6	3.1	2.0	3.1	3.1	e3.1
17	8.4	3.4	3.7	3.7	7.8	3.6	7.5	3.1	1.9	3.0	3.1	e3.1
18	8.1	3.4	3.7	4.4	7.7	3.7	7.2	3.1	1.8	3.1	3.1	e3.1
19	8.3	3.4	3.7	5.5	7.6	4.3	6.8	3.1	1.9	3.0	3.1	e3.1
20	8.0	3.4	3.7	3.7	7.7	6.8	6.3	3.1	2.0	3.0	3.1	e3.1
21	8.4	3.4	3.7	3.7	8.0	6.5	6.3	3.1	2.0	2.9	3.1	e3.1
22	9.1	3.4	3.7	3.7	8.0	3.7	5.8	3.0	2.0	2.9	3.1	e3.1
23	14	3.4	3.7	3.6	7.9	3.5	6.5	3.1	2.4	2.9	3.1	e3.1
24	12	3.7	3.7	3.7	7.2	3.6	6.6	3.1	3.1	2.9	3.1	e3.1
25	8.8	3.7	3.7	3.5	3.7	3.3	6.4	3.1	3.1	2.9	3.2	e3.1
26	8.4	3.7	3.7	3.7	3.7	3.4	5.6	3.1	3.1	3.0	3.1	e3.1
27	7.0	3.6	3.7	3.7	3.7	3.1	3.1	3.1	3.1	3.1	3.1	e3.1
28	7.1	3.4	3.7	3.7	3.7	4.2	3.3	3.1	3.1	3.1	3.1	e3.1
29	3.1	3.4	3.7	3.6	---	7.1	3.1	3.1	3.1	3.0	3.1	e3.1
30	4.2	3.4	3.7	3.7	---	7.3	3.3	3.1	3.1	3.0	3.1	e3.1
31	7.9	---	3.6	3.7	---	7.4	---	3.1	---	2.9	3.1	---
TOTAL	177.0	150.0	131.2	118.2	178.3	175.6	173.7	98.0	76.9	93.9	114.8	92.8
MEAN	5.71	5.00	4.23	3.81	6.37	5.66	5.79	3.16	2.56	3.03	3.70	3.09
MAX	14	8.4	8.1	6.1	8.2	11	8.9	4.6	3.1	4.3	21	3.3
MIN	3.1	3.1	3.6	3.4	3.6	3.1	2.7	3.0	1.8	2.8	2.8	3.0
AC-FT	351	298	260	234	354	348	345	194	153	186	228	184

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2001, BY WATER YEAR (WY)

MEAN	27.9	23.5	6.56	7.11	15.4	10.4	16.8	50.7	63.7	82.9	105	98.6
MAX	325	287	84.1	62.7	254	282	239	767	575	608	720	838
(WY)	1966	1983	1983	1992	2000	2000	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1963 - 2001	
ANNUAL TOTAL	21365.6		1580.4			
ANNUAL MEAN	58.4		4.33		[a]42.5	
HIGHEST ANNUAL MEAN					145	1999
LOWEST ANNUAL MEAN					1.62	1964
HIGHEST DAILY MEAN	342	Feb 25	21	Aug 11	6860	Jun 18 1969
LOWEST DAILY MEAN	1.5	May 11	1.8	Jun 14	.10	Jan 12 1963
ANNUAL SEVEN-DAY MINIMUM	1.7	May 11	1.9	Jun 13	.10	Apr 16 1963
MAXIMUM PEAK FLOW			182	Aug 11	[b]219000	Sep 22 1941
MAXIMUM PEAK STAGE			3.02	Aug 11	[c]29.30	Sep 22 1941
INSTANTANEOUS LOW FLOW			1.4	Jun 13	1.4	Jun 13 2001
ANNUAL RUNOFF (AC-FT)	42380		3130		30820	
10 PERCENT EXCEEDS	325		7.9		91	
50 PERCENT EXCEEDS	3.4		3.4		2.8	
90 PERCENT EXCEEDS	2.3		3.0		1.7	

e Estimated

a Average discharge for 15 years (water years 1909, 1912-13), 392 ft^3/s, 284,000 acre-ft/yr, prior to completion of Conchas Dam, 24 years (water years 1939-62), 257 ft^3/s, 186,200 acre-ft/yr, prior to completion of Ute Dam.

b From rating curve extended above 75,000 ft^3/s.

c From floodmarks.

07227000 CANADIAN RIVER AT LOGAN, NM--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957-62, 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
DEC													
04...	1110	5.8	12.0	676	3.7	8270	11.5	107	7.9	580	126	63.9	1600
MAR													
29...	1400	14.5	19.0	660	7.5	3820	10.4	120	8.1	370	74.1	45.3	661
JUL													
03...	1140	28.0	33.0	677	3.1	8110	7.6	113	8.0	550	112	65.0	1570
SEP													
18...	1123	22.0	24.0	673	E3.1	8280	7.5	100	7.9	570	119	66.9	1520

DATE	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	BORON, DISSOLVED (UG/L AS B) (01020)	IRON, DISSOLVED (UG/L AS FE) (01046)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
DEC										
04...	29	8.60	2280	506	1.0	11.1	384	<100	4790	322
MAR										
29...	15	6.53	912	371	.8	7.7	255	M	2220	244
JUL										
03...	29	8.80	2210	491	1.0	12.3	354	<50	4640	288
SEP										
18...	28	9.31	2280	513	.9	12.0	361	<50	4690	285

Remark codes used in this report:
< -- Less than
E -- Estimated value

Null value remark codes used in this report:
M -- Presence verified, not quantified

07227100 REVUELTO CREEK NEAR LOGAN, NM

LOCATION.--Lat 35°20'29", long 103°23'37", in $SW^1/_4NW^1/_4$ 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 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with satellite telemeter. 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.

EXTREMES OUTSIDE PERIOD OF RECORD (1941-47).--Maximum discharge determined, about 13,400 ft^3/s, Sept. 18, 1946, gage height, 9.04 ft, at site 180 ft downstream at different datum, from unpublished records collected by Bureau of Reclamation. A peak of 26,100 ft^3/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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	46	2.4	e4.4	66	29	5.8	5.6	39	22	55	42
2	11	30	1.7	3.3	33	127	3.6	5.0	34	17	38	e25
3	8.2	21	3.3	e2.5	39	33	1.9	29	10	4.5	30	e16
4	35	55	3.2	e3.2	21	19	1.7	384	30	3.7	23	e10
5	47	33	2.3	34	12	10	1.7	247	62	2.4	24	e9.5
6	67	11	2.0	59	7.7	7.0	1.9	191	37	2.3	11	e10
7	59	7.5	1.5	25	e6.4	4.7	1.4	130	39	2.8	9.4	e12
8	32	46	1.4	10	e6.2	939	.64	66	61	4.1	11	e16
9	23	103	1.1	7.0	e6.0	546	.39	37	567	1.6	5.5	e19
10	17	73	e1.1	4.3	e5.6	300	.22	31	596	6.0	8.1	e21
11	12	32	e1.4	3.1	e5.2	122	.06	19	501	17	73	e23
12	17	29	e1.8	3.2	e4.8	59	.03	111	277	136	114	e24
13	26	22	e2.3	2.1	e4.4	38	.14	138	194	277	105	e27
14	20	12	3.3	1.3	e4.0	26	.16	171	78	344	21	34
15	21	6.9	3.7	1.7	e3.7	20	.03	107	69	222	13	44
16	19	3.7	1.4	2.0	e3.4	16	.02	66	47	252	18	e33
17	18	3.9	e1.3	e1.4	e3.0	19	.07	35	75	220	33	e35
18	16	3.2	e1.1	e1.8	e2.7	21	.16	55	99	179	14	e33
19	14	3.1	e1.3	e8.2	e2.2	14	.10	58	122	171	1.7	e34
20	12	3.8	e1.2	e6.4	e2.0	10	.01	54	133	154	1.5	42
21	12	3.1	e1.3	5.3	2.8	8.0	.00	42	182	158	.25	25
22	38	3.9	e1.4	5.0	3.4	6.7	.00	45	106	121	.02	e22
23	484	3.4	e1.4	4.7	5.9	14	.03	43	195	77	.01	e21
24	1040	2.0	e1.2	3.7	4.5	8.0	.00	30	110	72	.02	e21
25	619	2.9	e1.1	3.6	3.1	6.5	.00	19	411	75	271	e21
26	244	2.0	e1.7	2.0	2.7	7.6	.00	27	59	71	355	e20
27	131	2.0	e4.1	1.2	6.7	7.0	.00	31	25	84	135	e20
28	1120	3.1	e14	e1.3	11	7.2	.00	34	22	89	103	e20
29	591	3.4	e25	e4.9	---	7.4	.09	39	23	74	50	e19
30	145	2.9	e39	13	---	15	5.0	24	25	63	120	e19
31	81	---	e4.4	56	---	12	---	117	---	65	61	---
TOTAL	4995.2	573.8	133.4	284.6	278.4	2459.1	25.15	2390.6	4228	2987.4	1704.50	717.5
MEAN	161	19.1	4.30	9.18	9.94	79.3	.84	77.1	141	96.4	55.0	23.9
MAX	1120	103	39	59	66	939	5.8	384	596	344	355	44
MIN	8.2	2.0	1.1	1.2	2.0	4.7	.00	5.0	10	1.6	.01	9.5
AC-FT	9910	1140	265	565	552	4880	50	4740	8390	5930	3380	1420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2001, BY WATER YEAR (WY)

MEAN	39.4	9.84	9.82	5.65	7.22	9.52	28.6	48.1	79.0	116	121	68.6
MAX	320	41.2	129	27.9	42.5	79.3	346	203	492	1203	575	515
(WY)	1961	1999	1960	1990	1983	2001	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1959 - 2001	
ANNUAL TOTAL	12630.50		20777.65			
ANNUAL MEAN	34.5		56.9		45.1	
HIGHEST ANNUAL MEAN					204	1960
LOWEST ANNUAL MEAN					4.72	1964
HIGHEST DAILY MEAN	1120	Oct 28	1120	Oct 28	13800	Jul 9 1960
LOWEST DAILY MEAN	.08	Jun 18	.00	Apr 21	.00	Oct 20 1959
ANNUAL SEVEN-DAY MINIMUM	.39	Feb 24	.00	Apr 21	.00	Oct 20 1959
MAXIMUM PEAK FLOW			5630	Oct 28	[a]26700	Jul 9 1960
MAXIMUM PEAK STAGE			7.55	Oct 28	14.30	Jul 9 1960
INSTANTANEOUS LOW FLOW			.00	Apr 21	.00	Oct 20 1959
ANNUAL RUNOFF (AC-FT)	25050		41210		32670	
10 PERCENT EXCEEDS	74		134		65	
50 PERCENT EXCEEDS	6.9		16		5.5	
90 PERCENT EXCEEDS	.99		1.3		.00	

e Estimated
a From slope-area measurement of peak flow.

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 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
DEC													
04...	1240	8.5	10.5	676	5.0	1990	10.2	99	8.5	340	70.4	40.5	290
MAR													
29...	1200	16.0	17.0	661	3.4	2150	8.7	103	8.5	400	79.3	49.7	331
JUL													
03...	0910	24.0	31.5	672	5.5	1360	7.6	103	8.5	330	66.9	39.1	168
SEP													
18...	0815	17.0	19.0	673	74	1290	8.0	94	8.2	370	73.9	45.7	132

DATE	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	BORON, DISSOLVED (UG/L AS B) (01020)	IRON, DISSOLVED (UG/L AS FE) (01046)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
DEC										
04...	7	3.68	199	485	.6	9.1	305	<10	1240	234
MAR										
29...	7	4.32	164	630	.6	7.6	307	<10	1420	250
JUL										
03...	4	6.22	61.7	410	.5	8.9	211	<10	880	198
SEP										
18...	3	6.24	55.9	413	.6	9.9	159	<10	850	187

Remark codes used in this report:
< -- Less than

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

WATER-QUALITY RECORDS

LOCATION.--Lat 35°23'35", long 103°02'30", in SW$^1/_4$ sec. 32, T.14 N., R.37 E., Quay County, Hydrologic Unit 11080006, 0.1 mi upstream from New Mexico-Texas State line, 5.5 mi downstream from Rana Canyon, and 14.7 mi north of Glenrio.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
APR													
03...	1600	23.5	29.0	666	8.0	6740	9.6	133	8.2	--	--	510	100
JUN													
06...	1115	28.0	26.0	675	5.0	6070	7.1	105	8.2	--	--	510	92.7
JUL													
02...	1530	34.0	34.0	679	30	5470	7.4	120	8.3	--	--	390	68.8
AUG													
30...	1120	23.5	29.0	674	11	2680	7.3	98	8.4	7	198	270	62.2

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	BORON, DISSOLVED (UG/L AS B) (01020)	IRON, DISSOLVED (UG/L AS FE) (01046)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
APR													
03...	63.1	1160	22	8.41	1770	505	.7	9.6	330	<50	--	3770	247
JUN													
06...	67.6	1110	21	8.69	1570	517	.6	10.0	329	<50	--	3500	211
JUL													
02...	52.2	1020	22	8.11	1370	444	.6	10.2	354	<30	--	3070	172
AUG													
30...	28.5	401	11	6.85	507	307	.5	10.2	223	<10	174	1430	183

Remark codes used in this report:
< -- Less than

08251500 RIO GRANDE NEAR LOBATOS, CO

LOCATION.--Lat 37°04'43", long 105°45'23", in $NE^1/_4NW^1/_4$ sec.27, T.33 N., R.11 E., Conejos County, Hydrologic Unit 13010002, on right bank at highway bridge, 5.7 mi north of Colorado-New Mexico State line, 8 mi downstream from Culebra Creek, 11 mi east of Lobatos, and 14 mi east of Antonito.

DRAINAGE AREA.--7,700 mi^2, approximately, includes 2,940 mi^2 in closed basin in northern part of San Luis Valley, CO.

WATER-DISCHARGE RECORDS

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

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 sea level. Prior to 1910, nonrecording gages at same site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by transmountain diversions, storage reservoirs, ground-water withdrawals and diversion for irrigation, and return flow from irrigated areas.

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	84	e210	e180	e190	334	568	573	2010	638	122	115
2	18	76	e210	e190	e180	310	574	582	1750	618	133	109
3	16	80	e190	e200	e190	308	616	822	1790	598	149	106
4	16	76	e180	e190	e200	310	546	957	1870	566	159	107
5	16	79	e190	e190	e210	313	483	935	1950	564	156	97
6	13	67	e190	e200	e220	316	464	913	1830	517	145	77
7	13	e67	e190	e210	e230	337	374	805	1570	444	155	57
8	22	e65	e210	e210	e230	367	269	616	1550	451	122	42
9	30	e60	e210	e220	e230	379	226	554	1760	462	131	32
10	34	e110	e200	e200	e240	403	221	759	1940	459	98	32
11	33	109	e180	e200	e260	409	221	1060	1910	479	73	33
12	32	e80	e170	e210	e260	399	214	1160	1720	494	65	32
13	33	e90	e150	e200	e270	380	196	1250	1550	440	67	29
14	33	e100	e150	e190	e270	392	188	1310	1400	415	74	30
15	46	e90	e170	e190	e260	390	178	1570	1310	396	64	34
16	55	e100	e150	e180	e270	365	176	1960	1160	426	70	43
17	41	e90	e130	e170	e280	362	172	1950	968	399	63	45
18	53	e90	e120	e180	e280	368	183	1680	780	360	88	47
19	41	e120	e150	e180	e290	363	225	1340	742	291	90	41
20	33	e135	e180	e180	e300	363	362	1440	738	239	86	35
21	37	e145	e170	e170	e310	361	e508	1510	704	221	76	36
22	50	e160	e170	e180	e340	e380	450	1660	804	235	74	40
23	56	e140	e180	e190	e330	e415	346	1660	850	238	64	41
24	57	e175	e180	e190	338	e440	253	1390	867	243	61	37
25	55	e180	e180	e200	376	e508	207	1400	826	264	80	38
26	55	e210	e170	e200	329	e615	229	1720	804	256	103	46
27	76	e215	e190	e210	340	e736	284	1930	774	199	101	44
28	88	e225	e190	e200	348	e768	389	2000	823	162	91	40
29	76	e225	e180	e200	---	704	434	2040	810	130	87	43
30	74	e235	e190	e200	---	661	440	2060	690	132	82	44
31	80	---	e180	e200	---	617	---	2140	---	131	96	---
TOTAL	1303	3678	5510	6010	7571	13373	9996	41746	38250	11467	3025	1552
MEAN	42.0	123	178	194	270	431	333	1347	1275	370	97.6	51.7
MAX	88	235	210	220	376	768	616	2140	2010	638	159	115
MIN	13	60	120	170	180	308	172	554	690	130	61	29
AC-FT	2580	7300	10930	11920	15020	26530	19830	82800	75870	22740	6000	3080

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2001, BY WATER YEAR (WY)

MEAN	188	315	285	265	316	418	517	1111	1231	438	171	136
MAX	1401	1199	763	521	595	884	2326	4958	4470	2754	1281	938
(WY)	1942	1942	1942	1986	1986	1987	1985	1987	1941	1995	1999	1999
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

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1931 - 2001	
ANNUAL TOTAL	57572.0		143481			
ANNUAL MEAN	157		393		[a]449	
HIGHEST ANNUAL MEAN					1264	1987
LOWEST ANNUAL MEAN					70.9	1964
HIGHEST DAILY MEAN	440	Jan 28	2140	May 31	[b]9110	Jun 22 1949
LOWEST DAILY MEAN	7.0	Aug 17	13	Oct 6	[c].00	Jul 16 1950
ANNUAL SEVEN-DAY MINIMUM	8.5	Aug 12	16	Oct 1	.00	Jul 16 1950
MAXIMUM PEAK FLOW			2170	May 31	[d]11600	May 8 1952
MAXIMUM PEAK STAGE			3.75	May 31	8.76	May 8 1952
ANNUAL RUNOFF (AC-FT)	114200		284600		325500	
10 PERCENT EXCEEDS	384		1100		970	
50 PERCENT EXCEEDS	150		200		245	
90 PERCENT EXCEEDS	13		44		40	

e Estimated.
a Average discharge for 31 years (water years 1900-30), 846 ft^3/s; 612900 acre-ft/yr, includes period of extensive development for irrigation.
b Maximum daily discharge for period of record, 13100 ft^3/s, Jun 8, 1905.
c No flow at times in 1950-51, 1956.
d Maximum discharge and stage for period of record, 13200 ft^3/s, Jun 8, 1905, gage height, 9.1 ft, from rating curve extended above 8000 ft^3/s.

08251500 RIO GRANDE NEAR LOBATOS, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1969 to current year. September 1969 to September 1993 under the National Stream-Quality Accounting Network (NASQAN). April 1993 to September 1996 under the Rio Grande National Water-Quality Assessment Program.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to September 1981.
WATER TEMPERATURE: October 1975 to September 1981.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT													
10...	1515	32	406	8.8	12.3	9.8	95.4	26.7	7.00	53.5	5.42	43.8	13.6
FEB													
20...	1015	270	200	8.5	.2	11.3	64.9	19.8	3.75	15.4	3.69	21.2	4.7
MAY													
10...	1100	768	225	8.3	15.6	8.3	67.1	20.4	3.88	18.5	3.82	36.4	5.1
JUN													
11...	1130	1910	152	7.8	20.5	6.8	48.8	14.7	2.93	10.5	2.70	20.3	2.2
JUL													
18...	1100	370	162	8.6	19.2	8.3	53.5	16.0	3.26	12.3	2.91	12.4	2.6
AUG													
30...	0930	82	318	8.7	15.8	7.2	97.0	28.9	6.02	29.2	5.44	37.6	7.1

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)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)
OCT													
10...	.7	17.3	263	<.006	<.047	<.041	.57	.28	.083	.012	E.009	1	.10
FEB													
20...	.3	26.5	141	.017	.529	<.041	.27	.11	.084	.039	.037	16	.15
MAY													
10...	.3	24.4	172	.006	.052	<.041	.74	.44	.197	.067	.051	163	.12
JUN													
11...	E.1	19.4	113	E.003	<.050	<.040	.53	.26	.166	.068	.054	48	.13
JUL													
18...	.2	24.1	116	E.004	<.050	<.040	.47	.17	.150	.058	.044	26	.18
AUG													
30...	.4	24.5	207	<.006	<.050	<.040	.46	.26	.165	E.092	E.077	--	--

DATE	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
OCT													
10...	4.0	38.4	<.06	E.02	<.8	.45	1.5	M	E.08	18.9	5.1	1.11	<2.4
FEB													
20...	E1.6	20.8	<.06	.06	<.8	.10	.8	40	.13	16.6	1.5	<.06	<2.4
MAY													
10...	2.1	27.9	<.06	<.04	<.8	.17	1.3	200	.49	19.1	1.9	.13	<2.4
JUN													
11...	E1.1	20.6	<.06	<.04	<.8	.12	1.2	130	.48	22.3	.6	.21	<2.0
JUL													
18...	2.1	17.3	<.06	<.04	<.8	.12	.8	100	.49	15.4	1.1	<.06	<2.0
AUG													
30...	--	--	--	--	--	--	--	30	--	6.1	--	--	--

08251500 RIO GRANDE NEAR LOBATOS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
OCT			
10...	<1.0	1	2.43
FEB			
20...	<1.0	2	.99
MAY			
10...	<1.0	1	.83
JUN			
11...	<1.0	2	.22
JUL			
18...	<1.0	1	.56
AUG			
30...	--	--	--

E Estimated laboratory analysis value.
M Presence of material verified but not quantified.

08252500 COSTILLA CREEK ABOVE COSTILLA DAM, NM

LOCATION.--Lat 36°53'54", 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 mi^2.

PERIOD OF RECORD.--April 1937 to current year (seasonal 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 with satellite telemetry. Concrete control since Sept. 17, 1965. Elevation of gage is 9,454 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 except for those estimated, which are fair. Natural flow may be augmented by transbasin diversions or irrigation returns from about 1,300 acres irrigated from Casias Creek (station 08253000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 3,870 ft^3/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.--Maximum discharge during period of seasonal operation, 54 ft^3/s, at 0200 hours May 17, gage height 2.82 ft; minimum daily discharge 1.8 ft^3/s, Oct. 2, 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	---	---	---	---	---	---	26	22	5.0	3.7	4.1
2	1.8	---	---	---	---	---	---	28	21	4.7	3.5	3.3
3	1.8	---	---	---	---	---	---	26	20	4.3	3.4	3.2
4	2.4	---	---	---	---	---	---	23	18	4.0	3.3	3.1
5	3.0	---	---	---	---	---	---	20	17	3.5	3.1	3.0
6	2.2	---	---	---	---	---	---	23	15	3.2	4.9	2.9
7	2.1	---	---	---	---	---	---	25	15	3.2	6.0	2.8
8	2.3	---	---	---	---	---	---	22	15	4.4	3.5	2.8
9	2.3	---	---	---	---	---	---	22	14	4.2	3.7	2.8
10	2.3	---	---	---	---	---	---	23	13	3.4	6.9	2.6
11	2.3	---	---	---	---	---	14	25	12	3.5	e11	2.6
12	2.8	---	---	---	---	---	15	26	11	3.1	e6.5	2.5
13	2.8	---	---	---	---	---	15	28	11	3.8	4.3	2.7
14	2.4	---	---	---	---	---	15	35	11	e4.2	5.4	3.1
15	2.5	---	---	---	---	---	17	40	9.2	3.2	5.1	2.6
16	2.5	---	---	---	---	---	16	43	8.1	2.7	8.5	2.6
17	2.5	---	---	---	---	---	19	48	7.3	2.5	4.4	2.8
18	---	---	---	---	---	---	20	43	6.8	3.0	3.8	2.6
19	---	---	---	---	---	---	20	41	6.5	3.4	3.7	2.5
20	---	---	---	---	---	---	17	43	6.4	3.7	3.5	2.4
21	---	---	---	---	---	---	15	38	6.2	3.9	3.4	2.5
22	---	---	---	---	---	---	12	32	6.0	3.8	3.4	2.5
23	---	---	---	---	---	---	13	29	5.7	4.9	3.2	2.5
24	---	---	---	---	---	---	17	29	5.7	4.4	3.1	2.5
25	---	---	---	---	---	---	17	30	6.2	3.5	3.3	2.5
26	---	---	---	---	---	---	18	30	5.6	4.9	3.5	2.5
27	---	---	---	---	---	---	18	30	5.2	4.9	3.1	2.4
28	---	---	---	---	---	---	19	29	5.0	3.9	3.0	2.5
29	---	---	---	---	---	---	21	29	4.8	3.3	3.1	2.5
30	---	---	---	---	---	---	23	26	5.3	3.1	3.7	3.5
31	---	---	---	---	---	---	---	24	---	3.5	5.6	---
TOTAL	39.9	---	---	---	---	---	341	936	315.0	117.1	136.6	82.9
MEAN	2.35	---	---	---	---	---	17.0	30.2	10.5	3.78	4.41	2.76
MAX	3.0	---	---	---	---	---	23	48	22	5.0	11	4.1
MIN	1.8	---	---	---	---	---	12	20	4.8	2.5	3.0	2.4
AC-FT	79	---	---	---	---	---	676	1860	625	232	271	164

e Estimated

08253000 CASIAS CREEK NEAR COSTILLA, NM

LOCATION.--Lat 36°53'49", long 105°15'37", 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 mi^2.

PERIOD OF RECORD.--April 1937 to current year (seasonal records). Monthly discharge only for some periods, published in WSP 1312 and 1732. Records for Nov. 1-7, 1947 and Nov. 1-16, 1948, published in WSP 1118 and 1148, are unreliable and should not be used.

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

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 9,437 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. Prior to March 25, 1999, water-stage recorder and concrete control 140 ft downstream at same gage datum.

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 ft^3/s, July 20, 1971, gage height, 2.07 ft, from rating curve extended above 85 ft^3/s; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 56 ft^3/s, at 1115 hours May 29, gage height 3.96 ft; minimum daily discharge 3.6 ft^3/s, Oct. 2, 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	---	---	---	---	---	---	21	50	22	13	9.1
2	3.6	---	---	---	---	---	---	25	50	21	13	8.3
3	3.6	---	---	---	---	---	---	25	51	21	12	8.1
4	4.8	---	---	---	---	---	---	24	49	20	12	7.7
5	4.8	---	---	---	---	---	---	22	46	19	11	7.6
6	3.9	---	---	---	---	---	---	26	44	18	12	7.4
7	3.9	---	---	---	---	---	---	26	44	18	12	7.3
8	4.1	---	---	---	---	---	---	22	44	19	11	7.3
9	3.8	---	---	---	---	---	---	22	43	18	11	7.1
10	3.7	---	---	---	---	---	---	23	43	18	14	6.9
11	3.7	---	---	---	---	---	---	24	43	17	16	6.6
12	4.9	---	---	---	---	---	---	26	42	17	16	6.5
13	4.6	---	---	---	---	---	---	29	41	18	12	6.9
14	3.8	---	---	---	---	---	---	35	39	18	14	7.7
15	3.8	---	---	---	---	---	---	40	36	16	14	6.5
16	3.8	---	---	---	---	---	---	44	32	16	17	6.5
17	3.7	---	---	---	---	---	---	48	30	16	12	6.5
18	3.8	---	---	---	---	---	---	49	29	15	11	6.2
19	---	---	---	---	---	---	11	49	29	15	11	6.0
20	---	---	---	---	---	---	11	49	28	15	10	5.8
21	---	---	---	---	---	---	11	48	28	15	10	5.9
22	---	---	---	---	---	---	8.2	45	28	14	10	5.8
23	---	---	---	---	---	---	13	44	27	16	9.6	5.7
24	---	---	---	---	---	---	12	44	27	14	9.4	5.6
25	---	---	---	---	---	---	11	44	26	14	9.6	5.5
26	---	---	---	---	---	---	12	46	26	15	9.3	5.5
27	---	---	---	---	---	---	13	48	25	15	8.9	5.3
28	---	---	---	---	---	---	14	50	24	14	8.7	5.3
29	---	---	---	---	---	---	16	52	23	13	8.6	5.3
30	---	---	---	---	---	---	18	52	25	13	9.1	6.6
31	---	---	---	---	---	---	---	50	---	13	11	---
TOTAL	72.1	---	---	---	---	---	150.2	1152	1072	513	358.2	198.5
MEAN	4.01	---	---	---	---	---	12.5	37.2	35.7	16.5	11.6	6.62
MAX	4.9	---	---	---	---	---	18	52	51	22	17	9.1
MIN	3.6	---	---	---	---	---	8.2	21	23	13	8.6	5.3
AC-FT	143	---	---	---	---	---	298	2280	2130	1020	710	394

CAL YR 2000 TOTAL 1832.9 MEAN 9.30 MAX 22 MIN 3.6 AC-FT 3640
WTR YR 2001 TOTAL 3516.0 MEAN 19.2 MAX 52 MIN 3.6 AC-FT 6970

08253500 SANTISTEVAN CREEK NEAR COSTILLA, NM

LOCATION.--Lat 36°53'03", long 105°16'52", 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 mi^2.

PERIOD OF RECORD.--April 1937 to current year (seasonal records). Monthly discharge only for some periods, published in WSP 1312 and 1732.

REVISED RECORDS.--WSP 1923: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and Parshall flume. Elevation of gage is 9,520 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 fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20 ft^3/s, June 29, 1995; maximum gage height, 1.73 ft, Aug. 11, 1941; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 9.3 ft^3/s, May 30, gage height, 1.13 ft; minimum daily 0.68 ft^3/s, Oct. 2, 3, 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.69	---	---	---	---	---	---	2.0	8.5	3.7	1.9	1.1
2	.68	---	---	---	---	---	---	2.2	8.4	3.5	1.9	1.1
3	.68	---	---	---	---	---	---	2.1	8.4	3.4	1.8	1.1
4	.78	---	---	---	---	---	---	2.0	8.1	3.2	1.7	1.0
5	.73	---	---	---	---	---	---	1.6	7.8	3.1	1.7	1.0
6	.68	---	---	---	---	---	---	2.1	7.5	3.0	1.8	.98
7	.70	---	---	---	---	---	---	1.9	7.2	2.9	1.7	.97
8	.74	---	---	---	---	---	---	2.1	7.0	2.9	1.7	.97
9	.69	---	---	---	---	---	---	2.3	6.8	2.8	1.6	.95
10	.69	---	---	---	---	---	---	2.6	6.6	2.7	1.7	.91
11	.69	---	---	---	---	---	---	2.9	6.5	2.7	1.7	.90
12	.86	---	---	---	---	---	---	3.1	6.3	2.6	1.6	.87
13	.77	---	---	---	---	---	---	3.6	6.2	2.8	1.5	.90
14	.69	---	---	---	---	---	---	4.4	6.0	2.7	1.7	.94
15	.71	---	---	---	---	---	---	4.9	5.7	2.6	1.6	.85
16	.70	---	---	---	---	---	---	5.5	5.4	2.5	1.6	.86
17	.70	---	---	---	---	---	---	6.0	5.1	2.5	1.4	.85
18	---	---	---	---	---	---	---	6.3	4.9	2.4	1.4	.82
19	---	---	---	---	---	---	1.0	6.8	4.7	2.4	1.3	.81
20	---	---	---	---	---	---	1.2	7.4	4.5	2.4	1.3	.79
21	---	---	---	---	---	---	1.2	7.4	4.4	2.4	1.3	.79
22	---	---	---	---	---	---	.97	7.3	4.3	2.3	1.3	.79
23	---	---	---	---	---	---	.98	7.5	4.2	2.5	1.2	.78
24	---	---	---	---	---	---	1.1	7.5	4.2	2.4	1.2	.77
25	---	---	---	---	---	---	1.1	7.6	4.1	2.3	1.2	.75
26	---	---	---	---	---	---	1.3	7.7	4.1	2.4	1.2	.75
27	---	---	---	---	---	---	1.3	8.1	4.0	2.3	1.2	.73
28	---	---	---	---	---	---	1.4	8.6	3.9	2.1	1.2	.73
29	---	---	---	---	---	---	1.5	8.7	3.7	2.0	1.1	.72
30	---	---	---	---	---	---	1.7	8.8	3.9	2.0	1.2	.75
31	---	---	---	---	---	---	---	8.7	---	1.9	1.3	---
TOTAL	---	---	---	---	---	---	---	159.7	172.4	81.4	46.0	26.23
MEAN	---	---	---	---	---	---	---	5.15	5.75	2.63	1.48	.87
MAX	---	---	---	---	---	---	---	8.8	8.5	3.7	1.9	1.1
MIN	---	---	---	---	---	---	---	1.6	3.7	1.9	1.1	.72
AC-FT	---	---	---	---	---	---	---	317	342	161	91	52

08253900 COSTILLA RESERVOIR NEAR COSTILLA, NM

LOCATION.--Lat 36°52'31", long 105°16'47", 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 mi^2.

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. Elevation of gage is 9,473 above National Geodetic Vertical datum of 1929, from topographic map.

REMARKS.--Records good except for those estimated, which are fair. Reservoir is formed by earthfill dam faced with rock. Storage began in 1920. Diversions for irrigation of about 1,300 acres above Reservoir. Reservoir is used for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 16,500 acre-ft June 1-4, 1994, June 19-22, 1995, gage height, 107.61 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, 11,400 acre-ft, June 1-12, gage height, 94.55 ft; minimum contents, 2,640 acre-ft, Oct. 1, gage height, 59.31 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2640	3160	3630	4040	4390	4760	5510	7140	11400	10000	6840	5400
2	2650	3180	3650	4050	4400	4770	5580	7250	11400	9800	6750	e5310
3	2660	3200	3660	4060	4420	4790	5650	7350	11400	9640	6730	e5220
4	2680	3210	3670	4070	4420	4800	5700	7450	11400	9470	6740	5080
5	2690	3240	3690	4080	4440	4810	5760	7550	11400	9310	6710	4950
6	2700	3250	3700	4100	4450	4820	5810	7650	11400	9250	6630	4810
7	2710	3260	3710	4110	4470	4840	5850	7750	11400	9250	6560	4770
8	2720	3270	3730	4120	4480	4860	5880	7840	11400	9200	6480	4760
9	2730	3290	3740	4130	4500	4870	5920	7930	11400	9020	6410	4700
10	2740	3310	3760	4140	4510	4890	5960	8030	11400	8840	6400	4520
11	2750	3320	3770	4150	4520	4900	5970	8120	11400	8650	6420	4340
12	2770	3340	3790	4170	4530	4920	6020	8230	11400	8470	6420	4160
13	2780	3360	3800	4180	4550	4930	6050	8350	11300	8410	6380	3990
14	2790	3380	3810	4190	4560	4940	6080	8500	11300	8430	6350	3920
15	2800	3390	3830	4200	4570	4960	6120	8680	11300	8380	6320	3910
16	2820	3410	3840	4210	4580	4970	6180	8880	11200	8190	6310	3860
17	2830	3430	3850	4230	4600	4990	6240	9100	11200	8040	6310	3730
18	2840	3440	3860	4240	4610	5010	6300	9310	11100	7880	6300	3600
19	2860	3450	3880	4240	4620	5020	6370	9520	11000	7740	6270	3470
20	2870	3470	3890	4250	4630	5040	6420	9750	10900	7690	6170	3340
21	2890	3490	3890	4260	4650	5080	6470	9940	10800	7700	6060	3300
22	2910	3500	3910	4270	4660	5130	6530	10100	10800	7650	5970	3290
23	2940	3520	3920	4280	4680	5190	6580	10300	10800	7530	5870	3260
24	2970	3530	3940	4290	4690	5230	6640	10400	10700	7400	5830	3180
25	2990	3550	3950	4310	4700	5280	6700	10600	10600	7310	5820	3100
26	3010	3560	3970	4320	4720	5330	6760	10800	10400	7220	5780	3020
27	3030	3570	3980	4330	4730	5370	6820	10900	10300	7190	5680	2930
28	3080	3580	3990	4350	4750	5400	6890	11100	10100	7180	5580	2900
29	3110	3610	4000	4360	---	5410	6970	11200	10000	7120	5500	2900
30	3130	3620	4020	4370	---	5440	7050	11300	10000	7010	5410	2900
31	3140	---	4030	4380	---	5470	---	11300	---	6920	5400	---
MAX	3140	3620	4030	4380	4750	5470	7050	11300	11400	10000	6840	5400
MIN	2640	3160	3630	4040	4390	4760	5510	7140	10000	6920	5400	2900
(+)	62.32	64.95	67.08	68.86	70.61	73.84	80.26	94.30	90.46	79.75	73.54	60.91
(++)	+500	+480	+410	+350	+370	+720	+1580	+4250	+100	-1400	-3160	-1440

CAL YR 2000 MAX 16000 MIN 2630 (++) +250
WTR YR 2001 MAX 11400 MIN 2640 (++) +260

e Estimated

(+) Elevation, in feet, at end of month
(++) Change in contents, in acre-feet

08254000 COSTILLA CREEK BELOW COSTILLA DAM, NM

LOCATION.--Lat 36°52'23", long 105°17'02", Taos County, Hydrologic Unit 13020101, in Sangre de Cristo Grant, on right bank approximately 1,000 ft downstream from Costilla Dam, 16 mi southeast of Costilla, and at mile 34.5.

DRAINAGE AREA.--54.6 mi^2.

PERIOD OF RECORD.--April 1937 to current year (seasonal records 1937-44, 1947-49, 1988-98). 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 with satellite telemetry and concrete control. Elevation of gage is 9,300 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. Flow regulated by Costilla Reservoir (station 08253900). Diversions for irrigation of about 1,300 acres upstream from reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 366 ft^3/s, July 29, 1994, gage height, 3.57 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge during period of seasonal operation, 138 ft^3/s, June 24, July 1,2; minimum daily, 0.6 ft^3/s, Oct. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	---	---	---	---	---	---	.27	62	61	56	13
2	1.6	---	---	---	---	---	---	.27	62	130	54	32
3	1.6	---	---	---	---	---	---	.27	62	117	29	78
4	1.6	---	---	---	---	---	---	.30	62	114	15	78
5	1.6	---	---	---	---	---	---	.36	62	110	28	78
6	1.6	---	---	---	---	---	---	.41	62	55	58	78
7	1.6	---	---	---	---	---	---	.32	61	23	52	34
8	1.6	---	---	---	---	---	---	.29	59	52	50	11
9	1.7	---	---	---	---	---	---	.29	59	122	50	38
10	1.7	---	---	---	---	---	---	.24	59	120	29	103
11	1.6	---	---	---	---	---	.32	.23	60	118	17	100
12	1.7	---	---	---	---	---	.31	.86	63	118	23	98
13	1.6	---	---	---	---	---	.31	2.5	63	58	38	98
14	1.6	---	---	---	---	---	.32	2.8	63	21	38	47
15	1.6	---	---	---	---	---	.35	2.8	57	49	37	15
16	1.6	---	---	---	---	---	.36	2.8	49	112	30	33
17	.99	---	---	---	---	---	.37	2.8	57	107	20	76
18	---	---	---	---	---	---	.34	2.8	84	100	17	76
19	---	---	---	---	---	---	.33	2.8	84	90	31	73
20	---	---	---	---	---	---	.32	2.7	83	44	63	71
21	---	---	---	---	---	---	.31	2.6	82	21	61	34
22	---	---	---	---	---	---	.30	2.6	52	43	60	11
23	---	---	---	---	---	---	.28	2.6	37	94	60	24
24	---	---	---	---	---	---	.29	2.6	58	83	32	51
25	---	---	---	---	---	---	.29	2.6	114	69	16	49
26	---	---	---	---	---	---	.27	2.6	111	66	30	49
27	---	---	---	---	---	---	.26	2.6	111	39	63	49
28	---	---	---	---	---	---	.27	2.6	110	25	62	24
29	---	---	---	---	---	---	.26	25	61	39	58	10
30	---	---	---	---	---	---	.26	62	33	74	55	10
31	---	---	---	---	---	---	---	62	---	64	29	---
TOTAL	26.89	---	---	---	---	---	6.12	195.91	2042	2338	1261	1541
MEAN	1.58	---	---	---	---	---	.31	6.32	68.1	75.4	40.7	51.4
MAX	1.7	---	---	---	---	---	.37	62	114	130	63	103
MIN	.99	---	---	---	---	---	.26	.23	33	21	15	10
AC-FT	53	---	---	---	---	---	12	389	4050	4640	2500	3060

CAL YR 2000 TOTAL 10068.79 MEAN 51.1 MAX 137 MIN .99 AC-FT 19970
WTR YR 2001 TOTAL 7410.92 MEAN 39.0 MAX 130 MIN .23 AC-FT 14700

08255500 COSTILLA CREEK NEAR COSTILLA, NM

LOCATION.--Lat 36°58'01", long 105°30'26", 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 mi^2.

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 with satellite telemetry. Concrete control since Oct. 13, 1952. Elevation of gage is 7,936 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 fair except for those estimated, 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	11	e10	e9.6	e6.2	e5.6	27	72	114	53	72	30
2	10	11	e9.8	e9.6	e6.4	e6.2	54	77	110	119	68	24
3	9.6	12	e10	e9.6	e6.5	e7.0	71	82	108	117	59	75
4	10	12	e10	e10	e6.7	e7.0	66	79	105	114	34	83
5	11	12	e11	e10	e6.6	e6.5	51	80	102	112	33	83
6	9.7	10	e11	e9.9	e6.4	e6.2	50	76	97	89	64	82
7	9.4	9.6	e11	e9.8	e6.2	e6.0	31	74	97	40	67	67
8	9.7	9.9	e10	e9.6	e6.0	e6.1	34	66	95	37	62	21
9	9.9	9.3	e10	e9.3	e5.8	e5.8	30	65	93	109	62	18
10	9.6	9.9	e12	e8.8	5.8	e6.0	33	68	91	121	56	83
11	9.4	11	e11	e8.0	5.9	e6.5	30	74	86	121	37	95
12	11	e10	e11	e7.2	6.1	e6.4	30	73	90	120	35	94
13	12	e8.6	e12	e7.6	6.2	e10	27	77	89	99	49	95
14	10	e8.4	e11	e7.0	6.5	13	28	94	91	44	55	80
15	9.8	e9.0	e11	e6.8	6.8	13	30	104	85	37	55	24
16	9.8	e8.6	e10	e7.0	e6.7	13	42	109	75	99	61	22
17	9.6	e8.6	e10	e7.0	e6.4	12	51	111	67	106	42	71
18	9.3	e8.6	e9.4	e6.9	e6.1	12	58	111	96	109	38	79
19	8.6	e8.6	e8.6	e6.8	e6.3	12	64	107	100	101	37	77
20	8.4	e8.5	e9.6	e6.6	e6.6	13	66	115	99	78	69	75
21	8.4	e9.0	e9.6	e6.2	e6.5	18	56	106	95	35	73	64
22	8.4	e9.6	e10	e6.0	e6.4	28	55	92	84	37	71	20
23	11	e10	e10	e6.2	e6.4	37	43	86	57	91	71	17
24	14	e10	e11	e6.5	e6.6	47	55	80	55	96	61	49
25	12	e10	e11	e6.7	e6.5	50	51	74	111	84	37	54
26	10	e11	e12	e6.8	e6.2	73	52	68	118	79	37	54
27	10	e12	e10	e6.6	e5.8	50	57	65	117	70	64	53
28	17	e11	e10	e6.4	e5.6	34	59	66	117	42	69	47
29	19	e10	e11	e6.5	---	27	64	67	99	38	66	17
30	16	e10	e11	e6.6	---	24	68	117	53	76	65	16
31	14	---	e10	e6.4	---	22	---	119	---	80	62	---
TOTAL	338.6	299.2	324.0	238.0	176.2	583.3	1433	2654	2796	2553	1731	1669
MEAN	10.9	9.97	10.5	7.68	6.29	18.8	47.8	85.6	93.2	82.4	55.8	55.6
MAX	19	12	12	10	6.8	73	71	119	118	121	73	95
MIN	8.4	8.4	8.6	6.0	5.6	5.6	27	65	53	35	33	16
AC-FT	672	593	643	472	349	1160	2840	5260	5550	5060	3430	3310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2001, BY WATER YEAR (WY)

MEAN	15.6	11.8	8.72	7.92	9.41	18.2	50.2	120	117	85.5	69.8	36.6
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1942 - 2001	
ANNUAL TOTAL	14524.6		14795.3			
ANNUAL MEAN	39.7		40.5		46.3	
HIGHEST ANNUAL MEAN					134	1942
LOWEST ANNUAL MEAN					16.5	1964
HIGHEST DAILY MEAN	137	Jul 18	121	Jul 10	1000	May 11 1942
LOWEST DAILY MEAN	8.2	Jan 7	5.6	Feb 28	1.0	Dec 1 1958
ANNUAL SEVEN-DAY MINIMUM	8.6	Jan 3	6.0	Feb 7	2.5	Dec 5 1964
MAXIMUM PEAK FLOW			123	Jul 10	1150	May 11 1942
MAXIMUM PEAK STAGE			2.84	Jul 10	[a]5.37	May 11 1942
INSTANTANEOUS LOW FLOW			5.6	Feb 28	.34	Mar 15 1969
ANNUAL RUNOFF (AC-FT)	28810		29350		33510	
10 PERCENT EXCEEDS	101		96		117	
50 PERCENT EXCEEDS	18		24		19	
90 PERCENT EXCEEDS	9.7		6.5		6.5	

e Estimated
a Site and datum then in use.

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 mi^2, approximately.

PERIOD OF RECORD.--June 1944 to current year (seasonal records).

GAGE.--Water-stage recorder with satellite telemetry and concrete control since Oct. 9, 1956. Elevation of gage is 7,821 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Apr. 20, 1950, at site 0.4 mi downstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 444 ft^3/s, June 1, 1983, gage height, 4.91 ft; no flow for 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 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 62 ft^3/s, at 1900 hours July 20, gage height, 3.36 ft; no flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	---	---	---	---	---	---	18	8.2	7.5	1.5	12
2	1.8	---	---	---	---	---	---	17	8.2	15	1.5	.00
3	.94	---	---	---	---	---	---	14	9.9	7.1	.80	.00
4	.81	---	---	---	---	---	---	11	7.8	3.5	.00	.00
5	2.7	---	---	---	---	---	---	12	7.5	3.1	.00	.00
6	1.6	---	---	---	---	---	---	8.8	8.4	.42	.01	.00
7	1.7	---	---	---	---	---	---	9.4	9.0	.00	.55	.00
8	2.7	---	---	---	---	---	---	6.5	9.5	.00	1.6	.00
9	2.2	---	---	---	---	---	---	6.3	8.7	3.5	1.3	.00
10	2.0	---	---	---	---	---	---	6.3	7.8	.00	.57	1.3
11	2.0	---	---	---	---	---	.00	7.5	8.0	.00	.00	.93
12	2.8	---	---	---	---	---	.00	7.1	9.0	.00	.00	.15
13	4.7	---	---	---	---	---	.00	7.5	9.0	.00	.00	.19
14	3.5	---	---	---	---	---	.06	23	9.9	.00	.43	2.0
15	2.8	---	---	---	---	---	.72	22	9.7	.00	1.2	.00
16	2.7	---	---	---	---	---	1.7	18	7.8	.64	7.5	.00
17	2.6	---	---	---	---	---	11	15	6.1	.01	.00	.05
18	---	---	---	---	---	---	15	e18	8.4	1.3	.00	.00
19	---	---	---	---	---	---	18	e20	6.8	.34	.00	.00
20	---	---	---	---	---	---	22	22	6.9	11	.11	.00
21	---	---	---	---	---	---	13	9.2	8.6	14	.29	.00
22	---	---	---	---	---	---	8.9	2.6	8.0	.33	.10	.00
23	---	---	---	---	---	---	3.0	2.8	5.2	1.2	.00	.00
24	---	---	---	---	---	---	9.6	3.2	5.2	.26	.00	.18
25	---	---	---	---	---	---	5.2	6.0	7.0	.00	.00	.06
26	---	---	---	---	---	---	5.1	8.0	7.9	1.4	.00	.00
27	---	---	---	---	---	---	7.4	7.8	6.5	4.4	.00	.00
28	---	---	---	---	---	---	8.4	7.2	7.3	.47	.00	.00
29	---	---	---	---	---	---	14	5.4	6.1	.00	.00	.00
30	---	---	---	---	---	---	18	9.2	5.9	.27	.00	.00
31	---	---	---	---	---	---	---	9.3	---	1.7	13	---
TOTAL	40.75	---	---	---	---	---	161.08	340.1	234.3	77.44	30.46	16.86
MEAN	2.40	---	---	---	---	---	8.05	11.0	7.81	2.50	.98	.56
MAX	4.7	---	---	---	---	---	22	23	9.9	15	13	12
MIN	.81	---	---	---	---	---	.00	2.6	5.2	.00	.00	.00
AC-FT	81	---	---	---	---	---	320	675	465	154	60	33

CAL YR 2000 TOTAL 1028.57 MEAN 5.27 MAX 37 MIN .00 AC-FT 2040
WTR YR 2001 TOTAL 900.99 MEAN 4.74 MAX 23 MIN .00 AC-FT 1790

e Estimated

08263500 RIO GRANDE NEAR CERRO, NM

LOCATION.--Lat 36°44'24", long 105°40'59", in NW¼NE¼ sec.20, T.29 N., R.12 E., Taos County, Hydrologic Unit 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 September 1994, October 1995 to current year.

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

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

REMARKS.--Records good except for those estimated, 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	113	261	220	220	355	626	536	2100	665	e165	127
2	59	119	242	218	211	332	592	607	1860	639	158	150
3	57	116	241	217	205	325	610	671	1780	623	165	145
4	56	118	221	222	212	325	627	947	1860	603	192	141
5	56	117	209	220	226	325	542	924	1940	581	190	142
6	55	114	213	222	237	330	504	960	1900	563	190	136
7	55	108	219	227	249	342	479	883	1690	505	180	117
8	54	92	214	231	257	376	369	780	1580	481	187	111
9	53	90	240	233	260	386	271	617	1670	489	157	e112
10	57	95	242	239	241	404	248	668	1880	491	168	e103
11	64	144	253	230	270	437	239	936	1910	489	135	e98
12	66	137	213	230	284	418	240	1080	1780	509	e155	e97
13	65	104	206	235	276	426	238	1200	1590	502	e145	e98
14	64	133	173	230	284	409	224	1280	1450	463	e140	e97
15	65	137	172	228	290	412	215	1380	1360	436	e150	e98
16	66	110	188	235	279	410	212	1750	1240	414	e153	e99
17	86	132	182	213	287	383	211	1930	1070	448	e143	e102
18	81	116	148	202	300	389	206	1780	886	407	e138	e101
19	77	126	161	212	306	396	216	1480	778	366	e118	e102
20	82	156	196	209	309	388	259	1390	758	303	e125	e104
21	69	171	210	204	318	385	458	1480	736	259	119	e102
22	65	182	205	202	324	383	551	1570	742	246	123	e98
23	76	194	200	209	352	410	476	1680	834	260	113	e97
24	96	173	211	211	347	462	370	1570	864	263	113	e98
25	93	210	215	216	315	489	281	1350	839	271	110	e100
26	89	213	212	219	342	598	247	1610	805	289	111	e98
27	87	237	209	231	366	716	271	1880	783	270	136	e97
28	113	243	223	233	363	794	340	1990	780	232	138	e100
29	128	253	221	229	---	766	447	2040	818	e230	126	e99
30	115	251	218	230	---	710	468	2050	748	e187	121	e98
31	111	---	221	231	---	676	---	2110	---	e168	116	---
TOTAL	2322	4504	6539	6888	7930	13957	11037	41129	39031	12652	4480	3267
MEAN	74.9	150	211	222	283	450	368	1327	1301	408	145	109
MAX	128	253	261	239	366	794	627	2110	2100	665	192	150
MIN	53	90	148	202	205	325	206	536	736	168	110	97
AC-FT	4610	8930	12970	13660	15730	27680	21890	81580	77420	25100	8890	6480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2001, BY WATER YEAR (WY)

MEAN	220	357	304	300	360	475	535	953	1127	459	251	195
MAX	1310	1073	774	566	657	1010	2335	4577	4400	2181	1273	970
(WY)	1998	1987	1987	1987	1987	1987	1987	1987	1949	1986	1999	1999
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1949 - 2001	
ANNUAL TOTAL	73210		153736			
ANNUAL MEAN	200		421		461	
HIGHEST ANNUAL MEAN					1275	1987
LOWEST ANNUAL MEAN					112	1964
HIGHEST DAILY MEAN	548	Jan 27	2110	May 31	9440	Jun 22 1949
LOWEST DAILY MEAN	53	Oct 9	53	Oct 9	40	Sep 10 1977
ANNUAL SEVEN-DAY MINIMUM	55	Aug 11	55	Oct 3	42	Sep 5 1977
MAXIMUM PEAK FLOW			2160	May 31	9740	Jun 22 1949
MAXIMUM PEAK STAGE			8.65	May 31	15.78	Jun 22 1949
INSTANTANEOUS LOW FLOW			53	Oct 9	40	Sep 10 1977
ANNUAL RUNOFF (AC-FT)	145200		304900		334000	
10 PERCENT EXCEEDS	439		1070		990	
50 PERCENT EXCEEDS	197		231		280	
90 PERCENT EXCEEDS	56		98		82	

e Estimated

08265000 RED RIVER NEAR QUESTA, NM

LOCATION.--Lat 36°42'12", long 105°34'06", in $NE^1/_4SE^1/_4$ 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 mi^2.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	e16	e5.0	e6.0	e11	e11	15	106	158	57	35	36
2	12	e15	e4.9	e5.6	e10	e11	14	121	157	58	35	32
3	11	e13	e5.0	e6.0	e11	e10	15	131	158	58	36	33
4	12	e13	e4.6	e6.2	e11	e11	24	122	151	53	41	32
5	14	e13	e4.3	e6.6	e12	8.2	26	106	139	49	39	30
6	12	e13	e4.8	e7.0	e12	8.3	29	95	130	47	44	29
7	12	e11	e5.4	e7.4	e11	8.4	25	93	130	45	38	28
8	12	e10	e6.4	e8.0	e10	8.9	25	89	131	44	36	28
9	12	e9.6	e5.8	e9.4	e9.2	9.4	24	97	130	46	39	27
10	12	e9.6	e5.0	e8.8	e9.0	9.5	22	109	129	44	42	26
11	12	e10	e4.5	e8.0	e10	9.3	21	121	127	44	45	25
12	17	e10	e3.9	e7.8	e11	8.8	22	124	123	44	41	25
13	20	e8.4	e3.6	e8.6	e11	8.8	20	131	117	42	40	24
14	16	e8.8	e4.0	e9.0	e11	10	20	149	108	48	48	25
15	15	e8.4	e3.8	e8.4	e10	9.3	21	173	97	43	42	25
16	14	e9.0	e3.5	e9.8	e10	9.8	26	191	88	43	53	29
17	13	e7.2	e3.6	e9.4	e9.8	10	34	206	86	41	45	28
18	13	e7.0	e3.8	e8.2	e9.6	10	45	210	82	39	41	25
19	12	e6.7	e4.0	e8.0	e9.8	10	66	216	80	38	40	24
20	9.7	e6.4	e4.2	e8.4	e10	11	73	218	76	38	39	23
21	9.7	e6.0	e4.3	e8.8	e11	12	62	209	75	40	37	23
22	8.8	e5.6	e4.5	e9.6	e10	13	58	187	75	45	39	23
23	12	e7.0	e4.6	e10	e11	14	49	167	71	41	35	23
24	17	e6.0	e4.8	e11	e11	14	49	158	68	40	33	22
25	13	e5.4	e5.1	e11	e11	16	47	158	67	41	32	22
26	12	e5.0	e5.8	e10	e11	16	52	162	66	46	32	21
27	11	e5.4	e6.0	e11	e10	15	62	168	63	47	30	21
28	19	e4.8	e6.2	e12	e10	13	72	176	60	41	30	20
29	19	e4.6	e6.4	e12	---	13	85	182	58	38	30	20
30	16	e4.8	e6.4	e11	---	13	95	173	59	36	32	21
31	16	---	e6.2	e12	---	15	---	162	---	36	35	---
TOTAL	415.2	259.7	150.4	275.0	293.4	346.7	1198	4710	3059	1372	1184	770
MEAN	13.4	8.66	4.85	8.87	10.5	11.2	39.9	152	102	44.3	38.2	25.7
MAX	20	16	6.4	12	12	16	95	218	158	58	53	36
MIN	8.8	4.6	3.5	5.6	9.0	8.2	14	89	58	36	30	20
AC-FT	824	515	298	545	582	688	2380	9340	6070	2720	2350	1530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2001, BY WATER YEAR (WY)

MEAN	22.7	16.9	12.0	12.2	12.7	15.8	36.7	117	137	62.6	39.5	28.5
MAX	38.1	32.8	25.3	25.2	22.8	40.0	84.1	267	405	172	70.6	62.2
(WY)	1986	1987	1994	1994	1988	1989	1985	1979	1979	1979	1966	1991
MIN	7.93	8.09	3.88	3.91	4.81	5.11	9.73	17.5	22.4	13.3	11.8	8.81
(WY)	1973	1977	1975	1973	1977	1977	1971	1971	2000	2000	1972	1978

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1966 - 2001	
ANNUAL TOTAL	6064.6		14033.4			
ANNUAL MEAN	16.6		38.4		[a]42.9	
HIGHEST ANNUAL MEAN					87.6	1979
LOWEST ANNUAL MEAN					11.8	1971
HIGHEST DAILY MEAN	57	Aug 19	218	May 20	557	Jun 9 1979
LOWEST DAILY MEAN	3.5	Dec 16	3.5	Dec 16	2.5	Jan 6 1971
ANNUAL SEVEN-DAY MINIMUM	3.7	Dec 12	3.7	Dec 12	3.1	Jan 2 1973
MAXIMUM PEAK FLOW			232	May 19	[b]886	May 25 1942
MAXIMUM PEAK STAGE			3.57	May 19	5.80	Jun 8 1979
INSTANTANEOUS LOW FLOW			3.5	Dec 16	.60	Jan 21 1981
ANNUAL RUNOFF (AC-FT)	12030		27840		31100	
10 PERCENT EXCEEDS	32		119		108	
50 PERCENT EXCEEDS	13		19		22	
90 PERCENT EXCEEDS	6.2		6.0		8.1	

e Estimated

a Average discharge for 52 years (water years 1913-25, 1927-65), 55.9 ft^3/s, 40,500 acre-ft/yr, prior to extensive upstream diversions by Molycorp.

b From rating curve extended above 450 ft^3/s.

08266820 RED RIVER BELOW FISH HATCHERY NEAR QUESTA, NM

LOCATION.--Lat 36°40'58", long 105°39'15", in NW¼NW¼ sec.10, T.28 N., R.12 E., Taos County, Hydrologic Unit 13020101, on right bank at the State Fish Hatchery, 3.8 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 7,105 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to May 5, 1999, at site about ¼ mile downstream at datum 11.54 ft lower.

REMARKS.--Records good except for those estimated, which are fair. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e37	40	33	32	32	39	40	133	174	74	e57	e57
2	e38	39	33	32	34	38	37	146	170	73	e56	e55
3	e37	39	34	32	38	37	37	150	170	73	e57	e54
4	e38	39	34	33	37	40	41	134	167	70	e60	e53
5	e40	40	35	33	37	41	45	129	156	66	e61	e52
6	e41	39	35	34	37	40	49	120	147	66	e62	e51
7	e38	38	35	34	37	40	45	121	148	65	e61	e50
8	e38	36	35	32	37	40	46	122	143	63	e58	e49
9	e37	34	36	32	36	39	45	128	140	63	e59	e48
10	e37	36	37	34	34	43	43	140	141	62	e62	e47
11	e38	38	37	31	38	42	42	156	138	61	e64	e47
12	e46	35	35	32	36	41	44	164	138	64	e63	e46
13	e47	29	36	35	36	42	42	173	136	64	e61	e45
14	e46	27	34	30	36	41	43	189	131	72	e65	e46
15	e44	30	34	30	34	37	44	206	122	65	e63	e46
16	e43	29	33	33	33	37	50	217	108	61	e67	e48
17	e41	28	32	29	36	37	62	223	102	59	e66	e49
18	e40	29	30	28	40	36	78	217	100	58	e62	e48
19	e40	29	28	28	45	36	105	221	99	e59	e61	e45
20	41	29	30	29	43	36	114	225	100	e60	e60	e44
21	42	30	30	30	42	38	101	225	99	e61	e59	e43
22	40	31	31	32	44	38	90	200	102	e64	e58	e43
23	43	33	32	33	45	38	82	194	99	e63	e57	e43
24	48	33	33	34	42	37	85	191	93	e62	e55	e43
25	45	34	34	34	36	39	82	194	91	e61	e54	e42
26	43	35	35	32	38	38	88	192	90	e66	e53	e42
27	41	37	33	35	37	36	98	195	87	e67	e52	e41
28	48	35	33	35	39	35	104	197	81	e66	e51	e41
29	47	34	34	34	---	36	115	199	76	e61	e51	e41
30	44	34	34	34	---	37	122	191	76	e59	e52	e42
31	43	---	33	34	---	39	---	182	---	e58	e54	---
TOTAL	1291	1019	1038	1000	1059	1193	2019	5474	3624	1986	1821	1401
MEAN	41.6	34.0	33.5	32.3	37.8	38.5	67.3	177	121	64.1	58.7	46.7
MAX	48	40	37	35	45	43	122	225	174	74	67	57
MIN	37	27	28	28	32	35	37	120	76	58	51	41
AC-FT	2560	2020	2060	1980	2100	2370	4000	10860	7190	3940	3610	2780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2001, BY WATER YEAR (WY)

MEAN	53.2	47.7	42.9	43.5	43.9	47.6	76.6	192	207	102	69.6	59.3
MAX	71.0	59.2	51.0	55.3	57.9	72.0	144	374	520	227	95.3	86.9
(WY)	1986	1992	1987	1992	1992	1989	1985	1994	1979	1995	1993	1986
MIN	29.0	33.0	28.2	31.4	31.5	35.1	39.7	50.5	49.0	38.2	38.9	31.2
(WY)	1979	1979	1979	1979	1981	1981	1981	1981	2000	2000	2000	1978

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1978 - 2001	
ANNUAL TOTAL	15222		22925			
ANNUAL MEAN	41.6		62.8		82.3	
HIGHEST ANNUAL MEAN					129	1979
LOWEST ANNUAL MEAN					41.9	1981
HIGHEST DAILY MEAN	81	Aug 19	225	May 20	676	May 27 1979
LOWEST DAILY MEAN	27	Sep 18	27	Nov 14	26	Oct 10 1978
ANNUAL SEVEN-DAY MINIMUM	29	Nov 13	29	Nov 13	26	Dec 9 1978
MAXIMUM PEAK FLOW			249	May 17	755	Jun 8 1979
MAXIMUM PEAK STAGE			4.85	May 17	[a]5.30	Jun 8 1979
INSTANTANEOUS LOW FLOW			20	Nov 14	20	Nov 14 2000
ANNUAL RUNOFF (AC-FT)	30190		45470		59630	
10 PERCENT EXCEEDS	56		137		159	
50 PERCENT EXCEEDS	40		43		53	
90 PERCENT EXCEEDS	33		33		37	

e Estimated
a Site and datum then in use.

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 mi^2.

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 good except for those estimated, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	12	9.6	e6.4	e5.0	11	14	85	168	61	26	19
2	9.8	12	9.4	e6.2	e4.3	11	16	88	167	63	27	18
3	9.7	11	9.4	e6.8	e3.7	12	19	82	163	61	28	18
4	10	12	9.3	e9.6	e3.4	11	21	91	159	55	28	17
5	11	12	9.4	e7.9	e3.8	11	21	87	152	51	26	17
6	10	10	9.3	e8.2	e6.1	11	22	81	149	48	26	17
7	10	9.0	9.4	e8.2	e7.2	11	20	83	148	45	25	17
8	11	7.9	9.2	e6.6	e7.4	10	20	89	145	43	25	17
9	11	8.2	9.3	e7.1	e7.2	10	20	98	147	40	24	17
10	11	e8.0	9.1	e7.2	e7.0	10	20	99	142	38	24	16
11	11	e7.6	9.0	e7.4	e6.4	9.9	19	98	138	37	25	16
12	17	e5.2	8.8	e6.8	e6.4	9.9	19	102	136	36	24	16
13	17	e5.0	8.9	e6.3	e7.4	10	18	111	134	32	23	17
14	14	e6.0	e8.6	e8.1	e9.0	10	19	131	131	47	25	17
15	13	e6.6	e7.0	e9.2	e8.9	11	21	142	121	39	25	16
16	12	e4.7	e5.4	e8.0	e7.8	10	26	157	112	40	30	16
17	12	e4.3	e5.0	e6.6	e5.8	10	33	167	105	33	25	16
18	11	e4.9	e4.7	e9.6	e7.1	10	40	179	100	31	23	15
19	11	e5.6	e5.5	e10	e8.9	10	47	179	96	30	23	15
20	11	e7.0	e5.2	e4.4	e10	11	49	216	91	29	22	15
21	11	9.7	e6.2	e4.0	e10	13	49	197	88	38	22	15
22	11	9.8	e6.8	e4.4	e11	14	46	193	83	36	23	15
23	12	9.9	e7.8	e5.5	e10	14	45	181	78	30	22	15
24	13	9.9	e7.6	e4.9	e9.6	14	43	179	76	29	21	15
25	12	9.9	e7.0	e4.0	e9.0	15	47	176	76	28	21	15
26	12	9.7	e6.8	e6.7	e8.2	16	54	177	76	28	21	15
27	11	9.8	e7.4	e6.4	e11	16	59	183	74	29	20	14
28	16	9.9	e6.5	e6.0	11	15	66	188	71	27	20	14
29	15	9.9	e6.4	e7.0	---	14	71	179	68	26	19	14
30	14	9.7	e6.4	e7.4	---	13	78	172	65	26	19	15
31	14	---	e6.3	e6.0	---	13	---	170	---	26	19	---
TOTAL	373.5	257.2	236.7	212.9	212.6	366.8	1042	4360	3459	1182	731	479
MEAN	12.0	8.57	7.64	6.87	7.59	11.8	34.7	141	115	38.1	23.6	16.0
MAX	17	12	9.6	10	11	16	78	216	168	63	30	19
MIN	9.7	4.3	4.7	4.0	3.4	9.9	14	81	65	26	19	14
AC-FT	741	510	469	422	422	728	2070	8650	6860	2340	1450	950

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2001, BY WATER YEAR (WY)

MEAN	18.4	14.9	12.1	10.7	10.7	14.3	33.9	96.1	113	48.4	29.1	22.2
MAX	43.5	35.8	23.1	20.1	16.6	36.4	92.4	246	299	156	60.3	53.2
(WY)	1942	1942	1942	1942	1942	1989	1937	1941	1979	1995	1957	1993
MIN	10.8	8.28	7.52	6.03	6.08	7.60	11.1	20.6	20.2	11.5	10.9	9.87
(WY)	1957	1952	1964	1935	1935	1964	1977	1971	2000	2000	1972	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1935 - 2001	
ANNUAL TOTAL	4789.5		12912.7			
ANNUAL MEAN	13.1		35.4		35.4	
HIGHEST ANNUAL MEAN					69.9	1942
LOWEST ANNUAL MEAN					13.8	2000
HIGHEST DAILY MEAN	40	Aug 19	216	May 20	416	May 13 1941
LOWEST DAILY MEAN	4.3	Nov 17	3.4	Feb 4	3.0	Jan 21 1935
ANNUAL SEVEN-DAY MINIMUM	5.2	Nov 12	4.6	Jan 31	4.2	Jan 18 1935
MAXIMUM PEAK FLOW			246	May 20	541	May 13 1941
MAXIMUM PEAK STAGE			2.93	May 20	[a]4.89	Feb 2 1994
INSTANTANEOUS LOW FLOW					[b]1.0	Jan 27 1942
ANNUAL RUNOFF (AC-FT)	9500		25610		25640	
10 PERCENT EXCEEDS	24		103		86	
50 PERCENT EXCEEDS	11		15		18	
90 PERCENT EXCEEDS	8.6		6.4		9.7	

e Estimated
a Maximum gage height on Dec. 24, 1965, due to backwater from ice.
b Result of freeze-up.

08267500 RIO HONDO NEAR VALDEZ, NM--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT													
30...	1430	6.0	11.5	575	14	165	9.9	106	8.2	.020	.09	<.010	.25
MAR													
30...	1145	2.0	7.0	569	13	177	12.2	118	7.8	.012	.04	<.010	<.20
APR													
30...	1130	6.0	17.0	579	76	118	9.8	104	7.8	.010	.05	<.010	<.20
JUL													
18...	1500	14.0	27.0	580	31	140	8.4	108	8.0	.016	.03	<.010	<.20

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)
OCT					
30...	.47	.230	<.020	<.020	<.010
MAR					
30...	<.20	.370	<.020	<.020	<.010
APR					
30...	.23	.140	<.020	<.020	<.010
JUL					
18...	<.20	.170	<.020	<.020	<.010

Remark codes used in this report:
< -- Less than

08269000 RIO PUEBLO DE TAOS NEAR TAOS, NM

LOCATION.--Lat 36°26'22", long 105°30'11", in SW$^1/_4$SE$^1/_4$ sec.36, T.26 N., R.13 E., Taos County, Hydrologic Unit 13020101, in Taos Pueblo Grant, on right bank 2.3 mi east of Taos Pueblo, 4.5 mi northeast of Taos, 5.8 mi upstream from Rio Lucero, and at mile 15.1.

DRAINAGE AREA.--66.6 mi^2.

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

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.9	6.4	5.2	e5.2	e2.6	e5.3	16	117	78	18	10	10
2	e3.9	6.1	e5.0	5.6	e2.5	5.9	22	132	74	19	10	8.5
3	e3.9	6.0	e4.7	5.7	e2.7	6.3	28	128	71	19	10	8.9
4	e4.0	5.8	e4.5	5.5	e3.0	6.2	32	110	66	17	10	8.4
5	e4.0	6.1	e4.6	5.6	e3.5	6.5	31	92	60	16	9.5	8.0
6	4.0	6.1	e4.8	5.2	e4.3	6.8	33	79	55	15	9.4	7.8
7	4.1	5.8	e5.0	5.0	e4.8	6.7	28	75	52	15	9.4	7.5
8	4.4	5.2	5.4	e4.8	5.5	6.9	27	93	50	14	9.5	7.2
9	4.5	5.1	5.2	e4.5	5.5	7.2	27	128	48	14	9.6	7.2
10	4.5	5.5	5.0	e4.8	e5.0	7.6	27	143	46	13	9.7	7.1
11	4.5	e5.1	5.2	4.9	e4.0	7.4	25	143	44	13	11	7.0
12	7.5	e4.8	5.3	e4.7	e4.2	6.9	26	128	42	14	13	6.8
13	7.3	e4.2	e5.0	e4.5	e4.6	6.9	22	131	40	12	13	6.9
14	5.7	e3.8	e4.8	5.3	e5.0	8.3	23	146	33	13	13	7.5
15	5.2	e4.2	e4.5	e4.7	e5.1	8.2	28	165	34	13	13	7.0
16	4.9	e3.9	e4.4	e4.5	e4.7	8.4	34	168	31	13	14	6.5
17	4.7	e3.7	e4.2	e4.3	e4.0	8.4	46	169	29	12	11	6.6
18	4.7	e3.6	e4.0	e3.9	e3.7	7.9	61	162	28	12	11	6.5
19	4.7	e3.9	e3.7	e3.8	e4.0	8.0	79	158	26	11	10	6.4
20	4.7	e4.5	e3.8	e3.6	e4.4	8.6	90	164	25	12	10	6.1
21	4.7	e5.2	e4.1	e3.5	e4.6	11	84	152	25	15	9.5	6.1
22	4.6	5.7	e4.3	e3.3	e4.8	15	71	124	25	16	9.2	6.3
23	5.7	5.6	e4.2	e3.2	e5.0	15	62	108	23	13	8.8	6.4
24	7.9	5.2	e4.1	e3.1	e4.8	17	53	101	22	12	8.6	6.4
25	6.5	5.3	e4.0	e3.0	e4.5	19	58	97	23	12	8.3	6.5
26	5.7	5.1	e3.9	e3.2	e4.2	22	74	97	23	13	8.3	6.3
27	5.4	5.2	e3.8	e3.3	e4.5	21	86	99	22	15	8.2	6.2
28	8.8	5.2	e3.7	e3.1	e5.0	19	94	101	20	12	9.6	6.1
29	9.7	5.2	e4.0	e3.3	---	17	107	99	19	11	8.8	6.1
30	7.8	5.2	e4.3	e3.1	---	15	112	89	20	10	9.0	6.2
31	7.1	---	e4.8	e2.8	---	14	---	82	---	11	9.8	---
TOTAL	169.0	152.7	139.5	131.0	120.5	329.4	1506	3780	1154	425	314.2	210.5
MEAN	5.45	5.09	4.50	4.23	4.30	10.6	50.2	122	38.5	13.7	10.1	7.02
MAX	9.7	6.4	5.4	5.7	5.5	22	112	169	78	19	14	10
MIN	3.9	3.6	3.7	2.8	2.5	5.3	16	75	19	10	8.2	6.1
AC-FT	335	303	277	260	239	653	2990	7500	2290	843	623	418

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2001, BY WATER YEAR (WY)

MEAN	9.81	9.11	7.87	6.85	7.43	13.6	49.6	119	73.2	22.9	15.3	11.4
MAX	19.1	17.5	12.5	11.1	13.3	39.7	155	356	268	75.4	32.2	32.4
(WY)	1942	1942	1992	1984	1995	1989	1942	1941	1979	1995	1991	1982
MIN	4.84	4.80	4.05	3.39	3.64	5.58	13.1	11.3	7.83	4.60	4.45	4.17
(WY)	1965	1982	1964	1964	1964	1964	1971	1972	2000	1972	1972	1972

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1913 - 2001	
ANNUAL TOTAL	2972.4		8431.8			
ANNUAL MEAN	8.12		23.1		29.7	
HIGHEST ANNUAL MEAN					72.3	1979
LOWEST ANNUAL MEAN					7.74	1972
HIGHEST DAILY MEAN	34	Apr 30	169	May 17	926	May 26 1979
LOWEST DAILY MEAN	3.6	Nov 18	2.5	Feb 2	2.0	Dec 3 1950
ANNUAL SEVEN-DAY MINIMUM	[a]3.8	Sep 15	2.9	Jan 29	2.8	Jan 29 1990
MAXIMUM PEAK FLOW			181	May 16	[b]1050	May 26 1979
MAXIMUM PEAK STAGE			2.00	May 16	[c]3.90	May 14 1941
INSTANTANEOUS LOW FLOW					.69	Feb 27 1991
ANNUAL RUNOFF (AC-FT)	5900		16720		21490	
10 PERCENT EXCEEDS	18		79		71	
50 PERCENT EXCEEDS	5.8		7.5		11	
90 PERCENT EXCEEDS	4.1		4.0		5.7	

e Estimated
a Many days.
b From rating curve extended above 370 ft^3/s.
c From floodmarks, site and datum then in use.

08271000 RIO LUCERO NEAR ARROYO SECO, NM

LOCATION.--Lat 36°30'30", long 105°31'51", 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 mi^2.

PERIOD OF RECORD.--April to December 1910 (discharge measurements and occasional gage heights); January 1911 to September 1915, March to December 1916 (fragmentary); water years 1911-15, 1934 to current year (annual maximum); water years 1952-62, October to November 1962 (monthly discharge only); January 1913 to September 1915, October 1934 to September 1951, December 1962 to current year. Monthly discharge only for some periods, published in WSP 1312. Fragmentary records for October 1915 to February 1916, published in WSP 438, are unreliable and should not be used. Published as "near Taos," 1910-16.

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	6.2	e4.7	4.0	e3.2	e6.2	8.6	56	96	30	16	12
2	5.4	6.0	e5.0	3.9	e3.3	e6.0	9.9	65	96	30	16	12
3	5.3	6.0	e4.8	4.5	e3.6	e6.2	12	65	96	28	16	12
4	5.5	5.9	4.5	4.9	e3.7	e6.5	13	56	91	26	15	12
5	5.8	5.9	4.7	4.5	e3.5	e6.9	14	46	84	25	15	11
6	5.4	5.6	5.3	4.8	e3.6	e6.5	15	38	77	24	15	11
7	5.4	5.6	5.6	4.6	e3.5	e6.3	13	37	74	24	15	10
8	5.7	5.5	5.6	4.0	e3.5	e6.1	12	44	71	23	14	10
9	5.6	e5.0	5.2	5.1	e3.6	e6.7	12	59	71	22	15	10
10	5.6	e5.2	4.8	4.3	e3.7	e7.0	13	63	72	21	14	9.8
11	5.6	e5.4	e4.4	4.5	e3.6	e7.1	13	65	71	21	15	9.5
12	8.2	e5.0	e4.3	4.2	e3.7	e6.9	11	64	71	20	15	9.3
13	7.6	e4.8	e4.5	4.6	e3.7	e7.2	11	69	69	19	15	9.7
14	6.3	e4.6	e4.4	e4.2	e3.6	e7.1	11	77	64	21	16	10
15	6.0	e4.7	e4.4	e4.0	e3.5	e6.8	12	92	58	20	17	9.4
16	5.8	e4.6	e4.3	e4.2	e4.3	e6.7	16	105	53	19	19	9.2
17	5.8	e4.3	e4.3	e3.8	e5.6	e6.8	24	114	51	18	18	9.1
18	5.8	e4.1	e4.2	e3.5	e6.0	e7.0	33	119	49	18	17	9.0
19	5.6	e4.0	e3.9	e3.6	e6.7	e7.1	39	122	47	17	17	8.7
20	5.6	e4.5	e3.7	e3.7	e6.5	e7.3	36	130	46	17	16	8.5
21	5.6	e4.6	e3.9	e3.8	e6.6	e7.1	30	125	45	26	16	8.5
22	5.7	e4.5	e4.1	e4.0	e6.8	e6.9	26	109	44	26	16	8.5
23	6.1	e4.6	e4.4	e3.9	e6.4	e6.8	22	97	42	22	15	8.4
24	6.7	e4.7	e5.0	e3.7	e6.0	e6.8	20	96	40	21	14	8.3
25	6.2	e4.8	e5.2	e3.6	e5.8	e7.1	21	96	40	20	14	8.2
26	5.8	e5.0	4.7	e3.7	e6.1	11	26	96	38	20	13	8.1
27	5.7	e5.4	4.3	e3.6	e5.8	11	34	102	36	20	13	7.8
28	7.9	e5.2	4.2	e3.7	e6.0	9.9	37	111	34	18	13	7.8
29	6.5	e5.0	e4.3	e3.4	---	8.9	40	111	32	18	13	7.8
30	6.3	e4.8	e4.4	e3.2	---	8.2	45	100	32	17	12	7.8
31	6.4	---	4.2	e3.1	---	8.0	---	95	---	17	13	---
TOTAL	186.4	151.5	141.3	124.6	131.9	226.1	629.5	2624	1790	668	468	283.4
MEAN	6.01	5.05	4.56	4.02	4.71	7.29	21.0	84.6	59.7	21.5	15.1	9.45
MAX	8.2	6.2	5.6	5.1	6.8	11	45	130	96	30	19	12
MIN	5.3	4.0	3.7	3.1	3.2	6.0	8.6	37	32	17	12	7.8
AC-FT	370	301	280	247	262	448	1250	5200	3550	1320	928	562

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2001, BY WATER YEAR (WY)

MEAN	11.5	9.04	7.23	6.01	6.01	9.21	22.0	59.0	70.6	30.2	18.4	13.6
MAX	27.8	22.0	14.8	10.0	9.92	21.2	47.5	156	178	101	37.5	34.5
(WY)	1942	1942	1991	1942	1991	1989	1937	1941	1941	1995	1967	1982
MIN	6.01	5.05	4.26	3.51	3.47	4.11	8.77	14.5	11.2	7.55	6.55	6.34
(WY)	2001	2001	1951	1951	1964	1977	1977	1972	2000	2000	1972	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1913 - 2001	
ANNUAL TOTAL	2957.4		7424.7			
ANNUAL MEAN	8.08		20.3		22.2	
HIGHEST ANNUAL MEAN					46.7	1941
LOWEST ANNUAL MEAN					8.50	2000
HIGHEST DAILY MEAN	26	May 6	130	May 20	246	Jun 4 1942
LOWEST DAILY MEAN	3.7	Feb 19	3.1	Jan 31	2.0	Jan 28 1981
ANNUAL SEVEN-DAY MINIMUM	4.0	Feb 16	3.4	Jan 27	2.7	Jan 22 1981
MAXIMUM PEAK FLOW			138	May 20	310	Jun 8 1979
MAXIMUM PEAK STAGE			2.89	May 20	3.17	Jun 20 1995
INSTANTANEOUS LOW FLOW			1.5	Jan 9	1.4	Nov 2 1951
ANNUAL RUNOFF (AC-FT)	5870		14730		16070	
10 PERCENT EXCEEDS	16		64		53	
50 PERCENT EXCEEDS	6.2		8.2		11	
90 PERCENT EXCEEDS	4.3		4.0		5.5	

e Estimated

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 at Pot Creek), 3.2 mi south of Talpa, 4.3 mi upstream from Rio Chiquito, and at mile 6.9.

DRAINAGE AREA.--83 mi^2, 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 poor due to backwater from beaver dam below gage. Minor diversions for irrigation above station. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2.8	e7.1	e5.7	e3.8	e3.5	e4.8	e8.1	e34	e27	e5.6	e4.1	e4.6
2	e2.6	e6.7	e5.3	e3.4	e4.2	e4.9	e8.3	e38	e25	e5.5	e4.0	e4.0
3	e2.4	e6.6	e5.5	e3.5	e4.2	e5.1	e8.7	e40	e23	e5.2	e5.1	e3.4
4	e2.4	e6.4	e4.8	e3.7	e4.2	e5.1	e9.8	e39	e22	e5.1	e5.2	e3.4
5	e2.4	e7.4	e4.8	e3.8	e4.2	e5.1	e10	e37	e21	e4.5	e4.6	e3.0
6	e2.4	e7.1	e5.0	e3.9	e4.4	e5.3	e12	e34	e19	e4.3	e4.3	e2.7
7	e2.5	e6.4	e5.0	e4.2	e5.5	e5.2	e9.9	e32	e17	e4.2	e5.5	e2.9
8	e2.9	e6.1	e5.9	e3.4	e5.3	e5.5	e9.5	e32	e17	e4.7	e4.6	e2.9
9	e3.1	e5.2	e5.5	e3.4	e4.4	e5.6	e9.6	e36	e15	e4.6	e4.7	e2.9
10	e3.2	e4.5	e5.0	e4.2	e3.4	e5.6	e9.9	e36	e13	e4.5	e5.5	e2.7
11	e3.4	e5.7	e5.2	e3.7	e4.6	e5.7	e10	e38	e12	e4.5	e5.3	e2.6
12	e5.0	e6.0	e4.1	e3.4	e4.2	e5.7	e11	e40	e11	e4.7	e4.9	e2.4
13	e5.6	e4.5	e5.7	e4.2	e4.6	e5.7	e11	e43	e11	e4.5	e5.4	e2.5
14	e4.9	e4.5	e4.5	e4.0	e5.3	e6.1	e12	e46	e10	e4.7	e6.4	e2.9
15	e4.6	e5.8	e5.3	e3.7	e3.8	e6.0	e13	e52	e10	e4.4	e5.7	e2.8
16	e4.3	e5.3	e3.8	e4.3	e4.0	e6.1	e14	e51	e9.5	e3.9	e5.6	e2.6
17	e4.3	e5.3	e3.7	e3.5	e4.4	e6.3	e16	e54	e9.1	e3.6	e5.3	e2.5
18	e4.2	e4.8	e2.9	e4.0	e5.0	e6.3	e19	e58	e8.6	e4.1	e4.8	e2.5
19	e4.2	e5.2	e2.8	e4.0	e5.0	e6.5	e23	e59	e8.3	e4.4	e4.4	e2.5
20	e4.4	e6.0	e3.1	e4.3	e4.8	e6.5	e25	e58	e7.9	e4.3	e4.2	e2.6
21	e4.4	e6.6	e3.5	e4.0	e4.8	e6.7	e23	e57	e7.4	e4.6	e3.7	e2.7
22	e4.5	e7.4	e3.8	e3.8	e4.8	e6.8	e22	e53	e7.3	e5.5	e4.2	e2.7
23	e5.1	e6.9	e4.1	e4.2	e5.3	e7.0	e22	e49	e7.1	e4.7	e4.1	e2.8
24	e8.4	e6.2	e4.1	e3.8	e4.6	e7.4	e22	e45	e6.6	e4.7	e3.8	e2.8
25	e7.8	e6.0	e4.6	e4.0	e4.4	e7.6	e23	e42	e6.8	e5.2	e3.7	e2.8
26	e6.9	e6.0	e4.5	e3.5	e4.7	e7.6	e25	e39	e6.8	e6.0	e3.8	e2.9
27	e6.3	e6.2	e3.5	e4.2	e4.8	e7.8	e27	e37	e7.2	e5.5	e3.3	e2.9
28	e9.5	e6.2	e3.8	e4.0	e4.8	e7.9	e29	e36	e6.3	e4.4	e3.6	e2.9
29	e10	e6.0	e4.2	e4.0	---	e7.9	e30	e35	e6.1	e4.6	e3.8	e2.9
30	e8.3	e6.0	e3.8	e3.5	---	e8.0	e32	e31	e5.8	e4.8	e3.8	e3.0
31	e7.6	---	e3.7	e4.2	---	e7.9	---	e29	---	e4.3	e4.2	---
TOTAL	150.4	180.1	137.2	119.6	127.2	195.7	504.8	1310	363.8	145.6	141.6	86.8
MEAN	4.85	6.00	4.43	3.86	4.54	6.31	16.8	42.3	12.1	4.70	4.57	2.89
MAX	10	7.4	5.9	4.3	5.5	8.0	32	59	27	6.0	6.4	4.6
MIN	2.4	4.5	2.8	3.4	3.4	4.8	8.1	29	5.8	3.6	3.3	2.4
AC-FT	298	357	272	237	252	388	1000	2600	722	289	281	172

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2001, BY WATER YEAR (WY)

MEAN	7.42	6.67	5.74	5.22	5.53	9.33	30.8	92.1	51.4	14.1	12.2	8.76
MAX	15.3	13.9	10.4	9.19	9.31	22.9	91.9	264	174	41.9	35.7	24.9
(WY)	1999	1995	1958	1958	1989	1994	1962	1994	1995	1986	1957	1957
MIN	2.12	2.95	2.97	2.06	2.65	4.65	9.61	12.9	5.94	3.14	2.33	1.56
(WY)	1957	1957	1957	1955	1955	1955	1981	1981	1996	1956	1972	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1953 - 2001	
ANNUAL TOTAL	2957.0		3462.8			
ANNUAL MEAN	8.08		9.49		20.8	
HIGHEST ANNUAL MEAN					44.0	1994
LOWEST ANNUAL MEAN					5.96	1972
HIGHEST DAILY MEAN	[a]40	Apr 30	59	May 19	590	May 22 1991
LOWEST DAILY MEAN	1.8	Jan 30	2.4	Oct 3	.60	Jan 5 1955
ANNUAL SEVEN-DAY MINIMUM	2.4	Sep 1	2.5	Oct 1	1.2	Jan 4 1955
MAXIMUM PEAK FLOW			64	May 19	644	May 22 1991
MAXIMUM PEAK STAGE			4.15	Apr 20	4.16	May 22 1991
INSTANTANEOUS LOW FLOW			2.4	Oct 3	.20	Jan 5 1955
ANNUAL RUNOFF (AC-FT)	5870		6870		15100	
10 PERCENT EXCEEDS	19		26		48	
50 PERCENT EXCEEDS	5.2		5.1		7.9	
90 PERCENT EXCEEDS	2.8		3.1		4.0	

e Estimated
a Also May 6-8.

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 mi^2.

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 with satellite telemetry. 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.--Records good except for those estimated, 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	e13	21	e18	e18	29	30	105	99	6.6	6.9	9.2
2	4.6	e12	20	e18	e20	28	31	119	94	6.7	7.4	8.0
3	4.7	e13	21	e17	e21	26	36	129	87	8.4	8.7	7.4
4	5.0	e15	e20	e18	e22	25	41	131	78	8.1	9.5	8.3
5	5.7	e17	e20	e19	24	25	40	125	68	6.9	8.8	8.6
6	4.7	e17	e19	e20	24	25	52	100	60	6.4	8.9	9.1
7	4.7	e15	e20	e20	25	25	51	91	55	6.7	7.6	9.2
8	5.3	e15	21	e18	23	28	45	96	56	7.3	8.9	9.0
9	6.2	e14	22	e18	23	26	34	124	53	7.8	11	8.7
10	6.7	e15	21	21	22	26	34	154	52	8.5	10	7.7
11	7.0	e17	21	e20	22	28	36	164	47	7.7	11	6.7
12	11	e16	21	e20	22	26	39	140	40	6.7	11	6.5
13	9.8	e15	21	e20	24	25	36	125	37	6.8	13	6.7
14	8.8	e16	e20	e18	25	24	32	151	34	7.2	15	6.7
15	9.3	e17	21	e18	23	24	31	205	27	8.3	17	7.1
16	9.1	e16	e20	e19	22	24	35	224	22	8.2	20	6.7
17	9.7	e16	e18	e18	23	28	45	234	16	7.1	15	6.5
18	9.1	e17	e15	e18	24	30	61	241	13	7.4	12	6.4
19	9.9	e17	e15	e19	24	27	78	228	10	7.6	11	6.2
20	10	e18	e16	e19	23	24	95	250	8.2	8.0	11	6.2
21	10	e18	e17	e19	23	25	101	262	6.3	9.2	9.6	6.5
22	10	19	e18	e19	23	28	88	215	6.5	11	9.6	6.5
23	11	19	e18	e19	24	36	80	174	5.7	8.4	9.9	6.1
24	15	e17	e18	e20	26	43	73	150	5.3	7.9	8.7	6.2
25	13	e18	19	e20	24	44	67	137	5.8	7.3	8.1	6.3
26	14	e18	19	e20	27	46	75	122	6.7	9.1	7.7	6.6
27	13	19	e17	19	28	45	83	118	8.3	11	6.8	6.3
28	e24	19	e19	20	29	39	89	123	7.0	9.6	7.7	6.3
29	e15	20	e19	20	---	37	99	134	7.5	7.9	8.4	6.7
30	e13	20	e19	e20	---	37	103	120	7.4	7.2	7.8	7.5
31	e13	---	e19	e20	---	33	---	110	---	7.0	8.0	---
TOTAL	296.8	498	595	592	658	936	1740	4801	1022.7	244.0	316.0	215.9
MEAN	9.57	16.6	19.2	19.1	23.5	30.2	58.0	155	34.1	7.87	10.2	7.20
MAX	24	20	22	21	29	46	103	262	99	11	20	9.2
MIN	4.5	12	15	17	18	24	30	91	5.3	6.4	6.8	6.1
AC-FT	589	988	1180	1170	1310	1860	3450	9520	2030	484	627	428

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2001, BY WATER YEAR (WY)

MEAN	26.4	32.9	33.7	32.6	37.6	48.8	111	249	137	29.6	24.4	22.6
MAX	74.9	71.9	56.8	48.4	60.3	113	440	1063	708	169	97.9	67.5
(WY)	1958	1958	1987	1995	1987	1995	1994	1994	1979	1995	1957	1993
MIN	7.88	14.3	13.5	14.0	21.5	23.9	8.32	5.71	4.69	3.89	4.28	3.90
(WY)	1964	1973	1973	1973	1973	1971	1972	1972	1971	1972	1972	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1957 - 2001	
ANNUAL TOTAL	6801.5		11915.4			
ANNUAL MEAN	18.6		32.6		64.9	
HIGHEST ANNUAL MEAN					193	1994
LOWEST ANNUAL MEAN					14.5	1972
HIGHEST DAILY MEAN	51	Jan 26	262	May 21	1940	May 20 1994
LOWEST DAILY MEAN	3.0	Aug 8	4.5	Oct 1	2.6	Aug 16 1972
ANNUAL SEVEN-DAY MINIMUM	3.3	Aug 3	4.8	Oct 1	3.0	Aug 10 1972
MAXIMUM PEAK FLOW			279	May 21	[a]2380	Aug 24 1957
MAXIMUM PEAK STAGE			7.12	May 21	8.93	May 22 1991
INSTANTANEOUS LOW FLOW			3.3	Oct 1	1.9	Aug 1 1972
ANNUAL RUNOFF (AC-FT)	13490		23630		47010	
10 PERCENT EXCEEDS	37		92		129	
50 PERCENT EXCEEDS	16		19		32	
90 PERCENT EXCEEDS	4.0		6.7		9.4	

e Estimated
a From rating curve extended above 900 ft^3/s.

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

LOCATION.--Lat 36°19'12", long 105°45'14", in NW$^1/_4$NE$^1/_4$ 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 mi^2, approximately, including 2,940 mi^2 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 with satellite telemetry. Datum of gage is 6,050.3 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 14, 1934, at bridge 1.7 mi upstream at different datum.

REMARKS.--Water-discharge records good. Diversions upstream from station for irrigation of about 620,000 acres in Colorado and 30,000 acres in New Mexico.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood since at least 1888, about 14,000 ft^3/s June 19, 1903, from records for Rio Grande at Embudo and estimated inflow. Other floods exceeding 10,000 ft^3/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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	268	427	394	397	559	870	867	2610	927	351	287
2	196	270	440	392	397	531	808	1040	2400	878	338	304
3	192	274	405	390	405	525	812	1090	2230	863	338	315
4	189	273	407	396	410	516	865	1340	2280	841	377	305
5	188	281	391	401	411	516	816	1460	2320	788	368	308
6	185	274	387	400	411	516	773	1390	2320	783	382	303
7	184	271	398	402	422	521	741	1320	2150	740	367	290
8	184	262	399	403	434	547	664	1240	1990	671	363	268
9	181	251	383	403	438	581	535	1110	2010	703	357	248
10	181	247	441	416	428	587	461	1100	2200	698	346	236
11	192	269	430	409	424	612	458	1360	2260	687	347	223
12	214	313	400	404	451	628	446	1610	2170	693	319	215
13	219	288	389	412	459	610	450	1710	1980	713	292	217
14	210	247	384	404	463	598	432	1860	1840	697	291	219
15	208	291	348	397	468	597	409	2000	1740	654	322	216
16	210	289	338	409	451	606	413	2350	1630	614	311	215
17	214	279	345	400	456	591	427	2660	1450	628	297	229
18	230	286	337	364	478	582	460	2600	1270	621	287	228
19	222	275	304	371	490	594	507	2310	1090	581	276	229
20	227	298	346	378	492	581	596	2160	1050	524	297	231
21	222	335	364	374	489	581	727	2290	1030	470	290	228
22	212	342	383	372	501	581	889	2260	1000	447	289	221
23	214	355	369	384	528	606	837	2320	1090	438	286	216
24	250	361	378	389	546	656	717	2240	1120	451	280	218
25	247	356	391	393	519	691	594	1970	1130	453	263	224
26	242	378	393	389	513	759	526	2090	1080	473	257	221
27	242	398	376	403	550	894	549	2350	1060	502	276	216
28	276	412	397	408	559	1020	602	2520	1030	447	314	223
29	293	426	400	407	---	1030	742	2580	1070	402	299	224
30	287	424	395	400	---	974	836	2590	1040	361	287	220
31	272	---	393	405	---	920	---	2590	---	340	286	---
TOTAL	6785	9293	11938	12269	12990	20110	18962	58377	49640	19088	9753	7297
MEAN	219	310	385	396	464	649	632	1883	1655	616	315	243
MAX	293	426	441	416	559	1030	889	2660	2610	927	382	315
MIN	181	247	304	364	397	516	409	867	1000	340	257	215
AC-FT	13460	18430	23680	24340	25770	39890	37610	115800	98460	37860	19350	14470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2001, BY WATER YEAR (WY)

MEAN	424	531	497	484	552	670	859	1771	1785	736	422	387
MAX	1675	1532	1018	764	865	1195	3020	6055	6007	3445	1537	2086
(WY)	1942	1942	1942	1986	1987	1987	1942	1987	1941	1995	1929	1927
MIN	171	224	243	263	290	259	250	233	188	185	184	161
(WY)	1957	1957	1957	1957	1957	1957	1981	1977	1977	1959	1956	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1926 - 2001	
ANNUAL TOTAL	130822		236502			
ANNUAL MEAN	357		648		760	
HIGHEST ANNUAL MEAN					1840	1942
LOWEST ANNUAL MEAN					271	1964
HIGHEST DAILY MEAN	751	Jan 27	2660	May 17	9730	Jun 7 1948
LOWEST DAILY MEAN	169	Sep 19	181	Oct 9	159	Sep 2 1956
ANNUAL SEVEN-DAY MINIMUM	174	Sep 13	185	Oct 4	159	Sep 19 1956
MAXIMUM PEAK FLOW			2790	May 17	9730	Jun 7 1948
MAXIMUM PEAK STAGE			6.17	May 17	9.23	Jun 22 1949
INSTANTANEOUS LOW FLOW			180	Oct 7	155	Sep 21 1956
ANNUAL RUNOFF (AC-FT)	259500		469100		550500	
10 PERCENT EXCEEDS	612		1520		1490	
50 PERCENT EXCEEDS	356		410		478	
90 PERCENT EXCEEDS	182		226		242	

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 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
NOV 14...	1230	6.0	10.0	611	202	2.0	331	10.3	103	8.8	8	119	.010
FEB 27...	1155	5.0	11.5	610	565	3.0	250	11.6	114	8.1	.0	100	<.010
APR 11...	1130	8.0	12.0	604	464	17	268	10.2	109	8.1	.0	104	<.010
JUL 18...	1030	7.2	29.5	615	625	15	212	7.3	75	8.4	.0	88	<.010

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CYANIDE TOTAL (MG/L AS CN) (00720)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
NOV 14...	.07	<.010	<.20	<.20	.230	.050	.030	.030	<.01	110	30.5	7.30	29.9
FEB 27...	.03	<.010	<.20	.28	.280	.020	<.020	.020	<.01	82	24.3	5.18	17.2
APR 11...	.03	<.010	<.20	.39	.260	.080	.020	.040	<.01	96	28.6	5.91	16.6
JUL 18...	.03	<.010	<.20	.63	.060	.090	.040	.030	--	69	20.2	4.55	14.2

DATE	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)
NOV 14...	1	4.10	8.6	42.6	.7	29.9	--	--	--	48	--	--	--
FEB 27...	.8	3.07	5.7	28.9	.5	26.6	E1.6	25.0	<.06	34	E.03	E.5	.09
APR 11...	.7	3.07	6.0	33.9	.5	25.1	--	--	--	35	--	--	--
JUL 18...	.7	2.96	3.9	23.0	.4	23.8	--	--	--	26	--	--	--

DATE	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)
NOV 14...	--	<10	--	--	--	--	--	--	--	--	--	<2.6	--
FEB 27...	.8	20	.08	7.5	5.8	.34	<1.0	2	.05	6	<2.4	<2.6	1.85
APR 11...	--	10	--	--	--	--	--	--	--	--	--	<2.6	--
JUL 18...	--	M	--	--	--	--	--	--	--	--	--	<3.0	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)
NOV								
14...	112	--	221	47	<.14	89	120	--
FEB								
27...	82	--	162	82	<.14	31	88	5.2
APR								
11...	86	9.4	172	76	<.01	53	94	16
JUL								
18...	72	13	137	92	--	68	75	--

Remark codes used in this report:
< -- Less than
E -- Estimated value

Null value remark codes used in this report:
M -- Presence verified, not quantified

08277470 RIO PUEBLO NEAR PENASCO, NM

LOCATION.--Lat 36°10'07", long 105°36'10", in $SE^1/_4NE^1/_4$ sec.1, T.22 N., R.12 E., Taos County, Hydrologic Unit 13020101, on left bank downstream side of 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 mi^2.

PERIOD OF RECORD.--December 1991 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,760 ft above National Geodetic Vertical Datum of 1929 from topographic map.

REMARKS.--Records good except for those estimated, which are poor. Several observations of water temperature where made during year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	11	e8.7	e7.5	e8.1	7.3	25	159	60	8.4	7.2	18
2	6.5	9.5	e8.4	e7.4	e7.8	7.7	36	179	55	10	9.6	13
3	6.9	9.6	e8.3	e7.3	e7.5	8.8	47	182	51	10	19	12
4	7.6	9.6	e8.0	e7.2	e7.7	8.2	54	151	43	9.1	15	12
5	9.3	11	e8.2	e7.7	e8.0	8.4	53	129	38	7.6	11	11
6	8.2	7.9	e8.3	e7.8	e8.4	8.0	54	114	35	6.9	9.1	11
7	8.2	8.6	e8.5	e7.1	e8.9	7.6	46	108	34	7.0	10	10
8	8.9	9.3	e8.8	e6.8	e9.0	7.9	45	109	35	7.2	12	9.9
9	8.7	12	e8.3	e7.2	e8.7	8.2	45	113	31	6.3	42	9.9
10	8.3	12	e8.1	e7.4	e8.2	8.5	47	125	24	6.3	43	9.7
11	8.5	8.8	e8.5	e7.5	e8.6	8.6	44	140	21	7.1	27	9.6
12	15	9.8	e8.0	e7.8	e8.2	7.2	44	137	19	8.4	37	9.5
13	13	8.5	e8.7	e7.4	e8.6	9.3	38	133	17	7.5	46	10
14	9.0	10	e8.5	e7.0	e8.5	12	40	141	16	22	49	12
15	8.9	12	e8.5	e6.8	e9.0	12	44	165	14	9.2	37	11
16	8.8	9.7	e6.9	e7.5	e8.3	12	55	171	13	8.0	34	11
17	8.5	14	e6.7	e7.6	e8.4	10	75	174	12	6.8	26	11
18	8.4	16	e6.5	e7.2	e8.1	9.3	103	165	12	6.9	21	11
19	8.5	16	e5.3	e7.5	7.3	9.0	122	163	10	6.6	19	11
20	8.6	18	e5.5	e7.8	7.4	11	129	156	9.4	7.4	20	11
21	9.0	14	e5.7	e7.3	7.3	18	116	144	8.9	7.0	17	11
22	11	11	e6.5	e7.1	7.8	22	105	121	8.8	13	16	11
23	28	9.6	e7.3	e7.3	9.0	24	84	109	9.5	8.9	14	11
24	37	e9.8	e7.7	e7.1	7.8	26	75	102	9.5	12	13	11
25	18	e8.8	e8.2	e7.3	9.5	28	75	99	9.1	16	12	11
26	13	e8.2	e9.3	e7.1	8.5	34	91	93	11	16	13	11
27	12	e8.2	e9.0	e7.4	7.8	32	112	89	12	13	12	11
28	26	e8.4	e6.8	e7.3	7.8	28	116	88	9.2	9.2	14	10
29	20	e8.5	e7.2	e7.4	---	24	129	85	9.2	7.4	14	10
30	15	e8.8	e7.9	e7.7	---	21	145	75	9.0	7.4	14	10
31	13	---	e7.9	e8.4	---	20	---	63	---	7.2	19	---
TOTAL	378.2	318.6	240.2	228.9	230.2	458.0	2194	3982	645.6	285.8	651.9	330.6
MEAN	12.2	10.6	7.75	7.38	8.22	14.8	73.1	128	21.5	9.22	21.0	11.0
MAX	37	18	9.3	8.4	9.5	34	145	182	60	22	49	18
MIN	6.4	7.9	5.3	6.8	7.3	7.2	25	63	8.8	6.3	7.2	9.5
AC-FT	750	632	476	454	457	908	4350	7900	1280	567	1290	656

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2001, BY WATER YEAR (WY)

MEAN	14.1	15.0	12.0	10.3	11.6	24.8	102	286	147	51.6	25.7	17.6
MAX	19.0	24.9	17.2	14.6	16.8	39.3	242	924	608	290	52.4	33.3
(WY)	1999	1999	1997	1992	1992	1997	1994	1994	1995	1995	1998	1993
MIN	11.1	10.6	7.75	7.38	8.22	14.8	38.4	31.9	5.53	7.92	6.26	5.52
(WY)	1997	2001	2001	2001	2001	2001	1996	1996	1996	1996	1996	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1992 - 2001	
ANNUAL TOTAL	8349.3		9944.0			
ANNUAL MEAN	22.8		27.2		59.3	
HIGHEST ANNUAL MEAN					124	1994
LOWEST ANNUAL MEAN					14.5	1996
HIGHEST DAILY MEAN	185	Apr 29	182	May 3	1720	May 20 1994
LOWEST DAILY MEAN	4.0	Sep 4	5.3	Dec 19	3.3	Jun 21 1996
ANNUAL SEVEN-DAY MINIMUM	4.4	Sep 11	6.2	Dec 16	3.7	Jun 18 1996
MAXIMUM PEAK FLOW			209	May 3	2200	May 19 1994
MAXIMUM PEAK STAGE			4.06	May 3	6.00	May 19 1994
INSTANTANEOUS LOW FLOW					2.3	Mar 13 1999
ANNUAL RUNOFF (AC-FT)	16560		19720		42990	
10 PERCENT EXCEEDS	64		90		151	
50 PERCENT EXCEEDS	9.7		10		16	
90 PERCENT EXCEEDS	6.3		7.3		8.5	

e Estimated

08278500 RIO SANTA BARBARA NEAR PENASCO, NM

LOCATION.--Lat 36°06'12", long 105°37'15", 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 mi^2 (approximately).

PERIOD OF RECORD.--November 1991 to current year. October 1952 to December 1957 published as Rio Santa Barbara nr Llano, NM (08278500).

GAGE.--Water-stage recorder. Elevation of gage is 8,640 ft above National Geodetic Vertical Datum, from topographic map.

REMARKS.--Records good except for those estimated, which are poor. Several observations of water temperature were made during year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	8.9	7.0	e6.6	e3.5	5.1	10	96	107	22	20	27
2	8.2	8.7	7.0	e7.4	e4.1	5.8	14	108	97	22	21	23
3	8.2	8.4	6.9	e8.4	e4.7	6.3	18	112	90	22	25	22
4	8.9	8.4	6.9	e7.4	e5.0	5.8	21	102	84	21	24	21
5	10	8.6	7.2	e7.0	5.4	6.4	20	88	79	18	21	21
6	8.4	7.9	7.0	e6.6	5.4	5.0	19	81	71	18	19	20
7	8.8	e7.2	7.4	e6.0	5.6	4.8	17	78	66	18	20	19
8	9.9	e6.3	6.7	e5.6	5.5	4.9	18	77	63	17	20	19
9	9.1	e6.0	6.5	5.3	5.3	5.0	21	80	59	16	25	18
10	8.7	e6.8	6.5	5.5	5.7	5.2	26	88	56	16	24	18
11	9.1	e7.3	6.4	5.3	5.1	5.5	26	93	52	16	23	17
12	21	e6.0	6.4	5.4	5.1	5.1	24	96	49	16	30	17
13	16	e5.0	6.5	5.6	5.1	6.1	23	102	46	18	34	17
14	11	e4.5	6.5	5.6	5.0	6.4	24	115	44	24	42	17
15	10	e6.0	6.5	5.6	5.2	6.6	27	134	42	17	42	16
16	9.5	e5.0	6.5	e5.2	5.4	7.5	35	148	38	16	42	15
17	9.3	e4.0	e6.2	e4.8	5.4	6.3	44	164	35	15	37	15
18	9.1	e4.3	e5.4	e4.5	5.3	5.7	54	164	33	15	36	16
19	8.9	e5.0	e4.7	e4.2	5.2	5.8	61	165	32	15	36	15
20	8.6	e5.6	e4.4	e4.0	5.2	6.3	61	166	30	16	35	14
21	8.4	e6.6	e5.0	e4.5	5.2	7.6	55	164	29	17	33	14
22	8.8	e8.4	e5.6	e5.2	5.3	9.1	51	154	28	20	32	e15
23	12	10	e6.2	e4.9	5.3	9.3	45	146	27	18	30	e15
24	14	8.8	e6.4	e4.7	5.6	9.5	44	141	26	20	29	e15
25	11	8.0	e6.0	e4.6	6.9	11	47	139	26	28	29	e15
26	9.6	e7.0	e5.4	5.4	5.9	13	55	138	26	30	27	e15
27	9.4	7.8	e5.8	e5.2	5.5	12	65	137	25	29	26	e14
28	13	7.7	e6.2	e5.0	5.3	11	68	129	23	23	25	e14
29	12	7.4	e5.4	e4.6	---	9.4	77	128	22	21	25	e14
30	11	7.1	e5.2	e3.8	---	8.8	86	121	22	21	24	e15
31	9.9	---	e5.8	e3.2	---	8.8	---	115	---	23	27	---
TOTAL	320.2	208.7	191.6	167.1	147.2	225.1	1156	3769	1427	608	883	513
MEAN	10.3	6.96	6.18	5.39	5.26	7.26	38.5	122	47.6	19.6	28.5	17.1
MAX	21	10	7.4	8.4	6.9	13	86	166	107	30	42	27
MIN	8.2	4.0	4.4	3.2	3.5	4.8	10	77	22	15	19	14
AC-FT	635	414	380	331	292	446	2290	7480	2830	1210	1750	1020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2001, BY WATER YEAR (WY)

MEAN	13.9	11.1	8.42	6.91	6.78	10.9	35.2	107	111	35.8	37.2	23.5
MAX	17.9	17.1	13.6	9.24	9.11	17.6	75.3	199	211	62.1	129	66.5
(WY)	1996	1992	1992	1953	1992	1997	1992	1994	1995	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1953 - 2001	
ANNUAL TOTAL	6431.7		9615.9			
ANNUAL MEAN	17.6		26.3		33.1	
HIGHEST ANNUAL MEAN					50.5	1957
LOWEST ANNUAL MEAN					12.0	1956
HIGHEST DAILY MEAN	[a]87	May 5	166	May 20	499	Jun 2 1994
LOWEST DAILY MEAN	4.0	Nov 17	3.2	Jan 31	3.0	Jan 31 1957
ANNUAL SEVEN-DAY MINIMUM	4.8	Nov 13	4.1	Jan 28	3.1	Jan 30 1957
MAXIMUM PEAK FLOW			183	May 20	838	Jun 18 1995
MAXIMUM PEAK STAGE			4.72	May 20	6.21	Jun 18 1995
INSTANTANEOUS LOW FLOW					2.4	Mar 2 1996
ANNUAL RUNOFF (AC-FT)	12760		19070		23990	
10 PERCENT EXCEEDS	40		77		89	
50 PERCENT EXCEEDS	10		14		15	
90 PERCENT EXCEEDS	6.2		5.2		6.2	

e Estimated
a Many days.

08279000 EMBUDO CREEK AT DIXON, NM

LOCATION.--Lat 36°12'39", long 105°54'47", in NE$^1/_4$SE$^1/_4$ 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 mi^2.

PERIOD OF RECORD.--October 1923 to February 1926, October 1926 to September 1955, (annual maximum), water years 1956-62, September 1962 to current year. Monthly discharge only for some periods, published in WSP 1312. Figures of daily discharge for July 6-25, 1932, published in WSP 733, and maximum discharges for water years 1931-33, 1935, 1937-38, 1941, are unreliable and should not be used.

REVISED RECORDS.--WSP 1512: 1931-32, 1941, 1947 (M). Also see PERIOD OF RECORD.

GAGE.--Water-stage recorder with satellite telemetry. 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. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	43	35	25	23	30	45	180	119	12	15	42
2	9.2	40	33	22	27	27	52	212	111	11	14	37
3	10	39	34	23	27	29	63	247	107	15	18	33
4	11	40	31	24	27	30	78	249	93	16	20	31
5	11	43	31	25	27	29	82	254	82	12	17	27
6	12	41	32	26	29	32	95	219	68	11	17	27
7	12	37	32	27	34	31	89	197	61	11	16	24
8	13	37	36	22	33	32	87	181	70	9.6	18	23
9	16	33	34	22	28	35	82	183	54	10	23	22
10	16	37	32	27	22	36	83	189	37	12	66	21
11	16	43	33	24	30	34	80	209	31	11	48	18
12	30	39	27	22	27	33	86	206	27	9.2	51	18
13	37	29	35	27	30	30	76	207	27	8.8	72	18
14	31	29	29	26	33	37	74	211	28	12	103	18
15	29	42	33	24	25	34	70	263	26	13	92	17
16	27	33	25	28	26	33	74	275	25	14	83	18
17	23	33	24	23	29	40	86	299	23	13	77	18
18	21	31	18	26	32	36	114	305	22	14	69	17
19	22	33	17	26	32	36	152	337	18	12	64	16
20	22	37	20	28	31	36	175	330	14	11	62	15
21	22	39	23	26	31	44	168	314	11	11	55	14
22	23	44	25	25	31	56	145	275	11	13	50	13
23	30	44	27	27	33	58	131	228	11	12	47	13
24	70	37	27	25	32	60	113	202	9.6	12	43	14
25	52	36	30	26	25	61	98	199	9.2	16	39	14
26	43	36	29	23	33	65	102	191	9.1	22	38	13
27	39	37	23	27	32	65	120	176	13	31	31	13
28	76	37	25	26	32	61	134	178	13	25	29	11
29	62	36	27	26	---	55	148	178	11	20	31	11
30	49	36	25	23	---	52	163	159	11	16	31	10
31	44	---	24	27	---	46	---	140	---	15	34	---
TOTAL	886.3	1121	876	778	821	1283	3065	6993	1151.9	430.6	1373	586
MEAN	28.6	37.4	28.3	25.1	29.3	41.4	102	226	38.4	13.9	44.3	19.5
MAX	76	44	36	28	34	65	175	337	119	31	103	42
MIN	8.1	29	17	22	22	27	45	140	9.1	8.8	14	10
AC-FT	1760	2220	1740	1540	1630	2540	6080	13870	2280	854	2720	1160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2001, BY WATER YEAR (WY)

MEAN	38.0	36.4	31.6	29.0	30.8	47.0	143	314	200	50.8	50.3	41.3
MAX	116	95.5	54.3	42.2	72.7	129	505	1231	813	204	222	190
(WY)	1942	1942	1942	1985	1932	1989	1942	1941	1941	1937	1991	1929
MIN	3.09	4.18	9.75	12.0	15.0	15.5	13.3	8.94	5.49	.86	2.71	2.79
(WY)	1951	1951	1951	1951	1951	1951	1972	1972	1950	1951	1950	1950

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1924 - 2001	
ANNUAL TOTAL	13057.1		19364.8			
ANNUAL MEAN	35.7		53.1		84.7	
HIGHEST ANNUAL MEAN					235	1941
LOWEST ANNUAL MEAN					12.8	1951
HIGHEST DAILY MEAN	225	Apr 29	337	May 19	2590	May 14 1941
LOWEST DAILY MEAN	6.3	Jul 24	8.1	Oct 1	.20	Jun 27 1950
ANNUAL SEVEN-DAY MINIMUM	6.8	Jul 22	10	Jul 7	.60	Jul 16 1951
MAXIMUM PEAK FLOW			401	Aug 14	[a]4200	Aug 29 1977
MAXIMUM PEAK STAGE			3.48	Aug 14	[b]7.10	Aug 29 1977
INSTANTANEOUS LOW FLOW			7.7	Oct 1	.06	Jun 26 1950
ANNUAL RUNOFF (AC-FT)	25900		38410		61330	
10 PERCENT EXCEEDS	85		142		212	
50 PERCENT EXCEEDS	29		31		35	
90 PERCENT EXCEEDS	7.6		13		13	

a From rating curve extended above 1,600 ft^3/s.
b Maximum gage height, 7.60 ft, Aug. 4, 1967.

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.

WATER-DISCHARGE RECORDS

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 with satellite telemetry. 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. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199	303	453	402	407	578	890	1000	2640	932	341	312
2	195	298	463	399	405	552	840	1180	2460	872	332	317
3	192	302	428	397	416	543	846	1280	2280	863	335	326
4	188	304	435	401	425	531	905	1470	2300	843	361	319
5	188	313	411	410	427	531	882	1670	2320	794	362	312
6	183	310	400	411	429	534	853	1550	2310	786	396	314
7	182	300	407	414	442	540	820	1480	2160	752	364	304
8	186	293	420	409	458	568	754	1380	1990	679	353	286
9	187	272	407	407	458	601	634	1270	1980	700	369	271
10	186	272	450	429	442	607	544	1240	2130	696	384	260
11	191	292	439	426	437	632	531	1450	2210	689	380	244
12	233	333	435	411	462	658	523	1720	2140	686	358	231
13	249	309	411	429	476	629	518	1810	1960	715	351	233
14	234	272	397	417	486	632	499	1960	1810	709	386	237
15	227	315	366	404	477	624	470	2140	1700	668	397	235
16	227	314	345	424	475	630	471	2470	1590	631	376	232
17	222	295	363	415	473	633	494	2820	1430	623	369	239
18	240	311	351	380	493	613	552	2810	1260	637	345	247
19	238	296	304	370	502	622	629	2590	1080	592	328	250
20	234	314	330	381	511	612	726	2410	1020	540	339	248
21	241	350	362	381	509	620	827	2510	1000	482	333	247
22	229	370	388	377	518	631	977	2440	978	449	321	239
23	234	384	381	390	541	652	941	2450	1040	435	324	233
24	312	387	384	395	569	695	817	2360	1080	450	310	235
25	296	370	401	402	539	738	690	2120	1090	455	300	239
26	280	404	407	396	525	794	621	2180	1050	481	289	238
27	269	416	388	416	571	909	646	2420	1040	524	290	232
28	348	437	394	424	586	1030	697	2600	1010	475	330	232
29	348	443	412	422	---	1050	835	2660	1040	415	331	235
30	330	450	405	410	---	997	948	2660	1030	364	313	232
31	310	---	402	419	---	935	---	2640	---	336	306	---
TOTAL	7378	10029	12339	12568	13459	20921	21380	62740	49128	19273	10673	7779
MEAN	238	334	398	405	481	675	713	2024	1638	622	344	259
MAX	348	450	463	429	586	1050	977	2820	2640	932	397	326
MIN	182	272	304	370	405	531	470	1000	978	336	289	231
AC-FT	14630	19890	24470	24930	26700	41500	42410	124400	97450	38230	21170	15430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2001, BY WATER YEAR (WY)

MEAN	434	557	524	512	581	715	999	2048	1966	778	459	391
MAX	1795	1611	1052	799	888	1290	3544	7228	6837	3540	1699	1178
(WY)	1942	1942	1942	1942	1987	1989	1942	1941	1941	1995	1957	1999
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1931 - 2001	
ANNUAL TOTAL	141899		247667			
ANNUAL MEAN	388		679		[a]831	
HIGHEST ANNUAL MEAN					2077	1942
LOWEST ANNUAL MEAN					308	1977
HIGHEST DAILY MEAN	771	Jan 27	2820	May 17	11700	May 16 1941
LOWEST DAILY MEAN	163	Sep 19	182	Oct 7	163	Sep 19 2000
ANNUAL SEVEN-DAY MINIMUM	169	Sep 14	186	Oct 4	166	Sep 1 1956
MAXIMUM PEAK FLOW			2960	May 17	[b]16200	Jun 19 1903
MAXIMUM PEAK STAGE			6.70	May 17	15.90	Jun 19 1903
INSTANTANEOUS LOW FLOW			180	Oct 6	130	Jun 30 1902
ANNUAL RUNOFF (AC-FT)	281500		491200		601700	
10 PERCENT EXCEEDS	641		1620		1630	
50 PERCENT EXCEEDS	387		429		515	
90 PERCENT EXCEEDS	183		241		262	

a Average discharge for 41 years (water years 1890-1930), 1,238 ft³/s, 896,900 acre-ft/yr.
b A flood of about 14,000 ft³/s, occurred between May 20 and June 10, 1905, from a comparison of records for Lobatos and Otowi Bridge. Another major flood occurred Sept. 29 or 30, 1904.

08279500 RIO GRANDE AT EMBUDO, NM--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SEDIMENT, SUSPENDED (MG/L) (80154)
OCT											
05...	1445	17.5	25.5	617	193	3.0	330	10.0	130	8.2	65
NOV											
16...	1345	4.0	4.0	614	316	3.8	331	14.1	134	8.4	31
DEC											
07...	1420	4.0	8.5	616	393	12	287	14.0	132	8.3	59
JAN											
11...	1430	4.0	8.5	618	430	15	268	14.0	132	8.6	35
FEB											
22...	1330	7.5	18.0	614	530	5.1	249	13.5	140	8.6	81

08284100 RIO CHAMA NEAR LA PUENTE, NM

LOCATION.--Lat 36°39'45", long 106°37'57", Rio Arriba County, Hydrologic Unit 13020102, in Tierra Amarilla Grant, on right bank 0.7 mi downstream from Rito de Tierra Amarilla, 3.1 mi southwest of La Puente, 6.7 mi upstream from flow line of El Vado Reservoir, and at mile 91.4.

DRAINAGE AREA.--480 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder with satellite telemetry. 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 those estimated, which are poor. Diversions for irrigation of about 10,300 acres upstream from station (1962 determination).

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of about 9,000 ft^3/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 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	68	e40	e36	e36	50	348	2610	816	121	46	43
2	13	58	e40	e36	e42	45	465	2900	771	117	47	41
3	14	62	e42	e36	e42	51	535	2650	731	98	46	35
4	15	58	e40	e36	e43	59	643	2010	653	87	46	35
5	18	64	e40	e36	e44	67	707	1520	561	76	41	32
6	18	55	e36	e40	e46	63	678	1340	491	68	50	30
7	17	52	e40	e40	e48	70	498	1530	460	52	48	27
8	17	67	e44	e36	e50	81	394	1800	479	48	47	26
9	21	56	e50	e36	e48	97	347	2160	486	53	63	22
10	20	58	e46	e40	e44	101	412	2410	449	63	57	23
11	23	70	e49	e40	e46	86	348	2630	400	54	50	25
12	49	e56	e34	e40	e46	77	324	2700	344	57	62	25
13	72	e30	e42	e40	e48	72	292	2640	310	52	59	21
14	50	e31	e45	e36	e52	86	333	2790	286	61	127	23
15	44	e48	e45	e36	e44	79	378	2830	246	64	126	25
16	39	e36	e42	e40	e42	82	518	2740	216	53	109	22
17	34	e36	e34	e36	e45	92	729	2650	201	47	99	22
18	37	e37	e32	e36	e48	85	1040	2490	188	41	78	21
19	34	e37	e32	e40	e53	81	1360	2410	180	35	66	20
20	33	e40	e34	e40	e54	100	1370	2540	169	31	58	19
21	32	e40	e36	e40	e54	138	1210	2200	159	32	54	17
22	33	e49	e40	e40	e57	181	939	1750	152	37	50	16
23	38	e48	e40	e40	e59	219	722	1550	141	40	53	16
24	71	e44	e40	e42	e54	238	778	1450	138	41	49	17
25	73	e42	e42	e42	e50	265	855	1350	128	43	44	17
26	63	e42	e42	e42	e54	317	1210	1320	127	57	40	18
27	54	e45	e36	e45	e57	350	1640	1260	126	49	33	18
28	100	e42	e40	e42	e58	335	2110	1230	112	45	32	16
29	128	e42	e40	e42	---	287	2410	1130	102	43	35	16
30	90	e45	e40	e42	---	258	2530	955	106	39	36	15
31	76	---	e40	e42	---	291	---	892	---	44	34	---
TOTAL	1341	1458	1243	1215	1364	4403	26123	62437	9728	1748	1785	703
MEAN	43.3	48.6	40.1	39.2	48.7	142	871	2014	324	56.4	57.6	23.4
MAX	128	70	50	45	59	350	2530	2900	816	121	127	43
MIN	13	30	32	36	36	45	292	892	102	31	32	15
AC-FT	2660	2890	2470	2410	2710	8730	51810	123800	19300	3470	3540	1390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2001, BY WATER YEAR (WY)

MEAN	91.4	84.5	60.5	55.6	69.4	187	836	1825	751	132	98.6	77.9
MAX	562	422	131	103	174	523	1846	4195	3200	571	352	320
(WY)	1987	1987	1987	1987	1962	1995	1962	1985	1995	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1956 - 2001	
ANNUAL TOTAL	44448.1		113548			
ANNUAL MEAN	121		311		357	
HIGHEST ANNUAL MEAN					723	1985
LOWEST ANNUAL MEAN					63.0	1977
HIGHEST DAILY MEAN	1540	Apr 28	2900	May 2	7720	May 10 1985
LOWEST DAILY MEAN	4.4	Aug 13	13	Oct 2	4.4	Sep 19 1956
ANNUAL SEVEN-DAY MINIMUM	7.2	Sep 17	16	Oct 1	5.6	Sep 18 1956
MAXIMUM PEAK FLOW			3290	May 2	[a]11200	May 28 1979
MAXIMUM PEAK STAGE			5.28	May 2	6.46	May 14 1984
INSTANTANEOUS LOW FLOW					3.1	Aug 12 2000
ANNUAL RUNOFF (AC-FT)	88160		225200		258600	
10 PERCENT EXCEEDS	301		1160		1040	
50 PERCENT EXCEEDS	46		50		80	
90 PERCENT EXCEEDS	10		30		30	

e Estimated
a From rating curve extended above 5,400 ft^3/s.

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 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT													
31...	1345	7.5	8.5	588	80	239	10.0	108	7.9	.020	.08	<.010	.44
JUL													
19...	1145	21.5	27.0	595	37	309	7.3	107	8.5	.012	.05	<.010	.31

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT													
31...	.53	<.020	.040	<.020	.010	100	30.3	5.82	7.5	.3	1.70	2.5	30.1
JUL													
19...	.34	<.020	.030	.030	<.010	130	39.4	8.51	11.5	.4	2.10	2.1	31.4

DATE	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	BORON, DISSOLVED (UG/L AS B) (01020)	IRON, DISSOLVED (UG/L AS FE) (01046)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
OCT								
31...	E.1	19.3	E8	30	150	89	36	88
JUL								
19...	.2	19.1	18	30	191	94	18	127

Remark codes used in this report:
< -- Less than
E -- Estimated value

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 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 Bureau of Reclamation.

AVERAGE DISCHARGE.--31 years, 129 ft^3/s, 93,460 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,170 ft^3/s, May 17, 1978, gage height, 7.85 ft; no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,000 ft^3/s, May 17-19; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	137	844	898	174	11	29
2	.00	.00	.00	.00	.00	.00	187	887	941	167	113	26
3	.00	.00	.00	.00	.00	.00	194	817	930	131	33	22
4	.00	.00	.00	.00	.00	.00	250	575	842	130	100	13
5	.00	.00	.00	.00	.00	.00	278	450	704	95	40	14
6	.00	.00	.00	.00	.00	.00	243	394	658	114	63	11
7	.00	.00	.00	.00	.00	.00	161	425	722	105	31	7.6
8	.00	.00	.00	.00	.00	.00	129	521	811	101	55	5.6
9	.00	.00	.00	.00	.00	12	109	642	820	114	79	3.0
10	.00	.00	.00	.00	.00	.00	132	710	805	113	151	2.0
11	.00	.00	.00	.00	.00	.00	106	833	689	82	101	1.5
12	.00	.00	.00	.00	.00	.00	87	899	612	81	112	1.5
13	.00	.00	.00	.00	.00	.00	80	951	530	71	64	1.5
14	.00	.00	.00	.00	.00	.00	99	933	441	256	374	2.5
15	.00	.00	.00	.00	.00	.00	127	930	326	99	193	4.5
16	.00	.00	.00	.00	.00	.00	201	997	305	73	205	2.5
17	.00	.00	.00	.00	.00	.00	311	1000	349	57	105	2.0
18	.00	.00	.00	.00	.00	.00	527	1000	353	43	76	5.0
19	.00	.00	.00	.00	.00	.00	578	1000	360	34	54	2.5
20	.00	.00	.00	.00	.00	.00	543	986	340	26	45	.50
21	.00	.00	.00	.00	.00	17	423	962	319	30	40	.50
22	.00	.00	.00	.00	.00	60	328	849	296	48	42	.00
23	.00	.00	.00	.00	.00	62	265	846	263	38	34	.00
24	.00	.00	.00	.00	.00	55	296	916	228	50	22	.00
25	.00	.00	.00	.00	.00	67	396	944	229	31	17	.00
26	.00	.00	.00	.00	.00	97	510	965	238	18	13	.00
27	.00	.00	.00	.00	.00	92	618	961	231	17	11	.00
28	.00	.00	.00	.00	.00	81	743	920	159	12	15	.00
29	.00	.00	.00	.00	---	70	814	890	184	8.1	23	.00
30	.00	.00	.00	.00	---	64	853	848	178	6.1	13	.00
31	.00	---	.00	.00	---	87	---	857	---	17	12	---
TOTAL	0.00	0.00	0.00	0.00	0.00	764.00	9725	25752	14761	2341.2	2247	157.70
MEAN	.000	.000	.000	.000	.000	24.6	324	831	492	75.5	72.5	5.26
MAX	.00	.00	.00	.00	.00	97	853	1000	941	256	374	29
MIN	.00	.00	.00	.00	.00	.00	80	394	159	6.1	11	.00
AC-FT	.00	.00	.00	.00	.00	1520	19290	51080	29280	4640	4460	313

CAL YR 2000 TOTAL 21548.40 MEAN 58.9 MAX 580 MIN .00 AC-FT 42740
WTR YR 2001 TOTAL 55747.90 MEAN 153 MAX 1000 MIN .00 AC-FT 110600

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 mi^2.

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 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 Bureau of Reclamation.

AVERAGE DISCHARGE.--8 years (water years 1963-70), 10.5 ft^3/s, 7,610 acre-ft/yr, prior to completion of Azotea tunnel. 31 years (water years 1971-2001), 141 ft^3/s, 102,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,610 ft^3/s, Mar. 12, 1985, gage height, 6.65 ft; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 940 ft^3/s, May 17; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.38	2.1	.00	.00	.00	480	878	838	156	13	23
2	.00	1.0	1.8	.00	.00	.00	385	851	881	177	57	24
3	.00	2.1	1.7	.00	.00	.00	397	822	873	137	38	17
4	.00	2.5	.96	.00	.00	.00	395	593	801	133	95	13
5	.00	2.4	.72	.00	.00	.00	417	500	681	107	43	9.6
6	.00	.88	.76	.00	.00	.00	432	443	631	112	65	9.6
7	.00	.63	1.5	.00	.00	.00	299	443	683	103	34	6.6
8	.00	1.8	1.6	.00	.00	.00	215	505	791	99	57	4.0
9	.00	2.1	1.1	.00	.00	3.0	171	591	813	111	88	3.5
10	.00	1.8	1.8	.00	.00	1.5	211	711	759	107	117	1.0
11	.00	1.4	1.6	.00	.00	2.0	133	775	659	83	129	1.0
12	.00	1.4	1.9	.00	.00	.00	153	857	587	83	111	.50
13	.00	1.9	2.3	.00	.00	.00	134	898	504	73	78	.50
14	.00	1.8	2.4	.00	.00	.00	151	852	416	171	245	.50
15	.00	2.3	2.9	.00	.00	.00	169	883	313	107	249	1.5
16	.00	2.4	2.2	.00	.00	.00	258	926	305	77	211	1.5
17	.00	2.4	2.1	.00	.00	.00	392	940	324	61	118	1.5
18	.00	2.3	2.1	.00	.00	.00	535	917	340	46	84	2.0
19	.00	2.1	2.0	.00	.00	.00	621	924	347	34	60	1.0
20	.00	2.3	1.9	.00	.00	.00	567	901	341	26	47	.00
21	.00	2.0	1.8	.00	.00	421	467	893	302	21	41	.50
22	.00	1.4	1.8	.00	.00	265	392	809	301	55	42	.00
23	.00	1.8	1.8	.00	.00	289	333	788	281	39	37	.00
24	.00	2.3	2.0	.00	.00	362	340	857	255	46	23	.00
25	.00	2.3	2.1	.00	.00	318	406	882	227	23	15	.00
26	.00	2.5	2.1	.00	.00	336	507	903	224	34	22	.00
27	.00	2.5	2.1	.00	.00	344	608	896	247	21	8.1	.00
28	.00	2.6	2.3	.00	.00	284	726	875	198	14	4.0	.00
29	.00	2.9	2.2	.00	---	226	776	831	184	10	18	.00
30	.00	2.8	2.1	.00	---	245	820	787	175	7.1	12	.00
31	.00	---	2.1	.00	---	336	---	802	---	13	9.1	---
TOTAL	0.00	58.99	57.84	0.00	0.00	3432.50	11890	24533	14281	2286.1	2170.2	121.80
MEAN	.000	1.97	1.87	.000	.000	111	396	791	476	73.7	70.0	4.06
MAX	.00	2.9	2.9	.00	.00	421	820	940	881	177	249	24
MIN	.00	.38	.72	.00	.00	.00	133	443	175	7.1	4.0	.00
AC-FT	.00	117	115	.00	.00	6810	23580	48660	28330	4530	4300	242

CAL YR 2000 TOTAL 22521.33 MEAN 61.5 MAX 560 MIN .00 AC-FT 44670
WTR YR 2001 TOTAL 58831.43 MEAN 161 MAX 940 MIN .00 AC-FT 116700

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 mi^2, approximately.

PERIOD OF RECORD.--October and November 1962 (monthly discharge only), December 1962 to current year. (Season 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 7,187.01 ft above National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to May 1, 2001, datum 1.84 ft higher. Prior to July 1, 1971, at site 1,100 ft upstream at higher datums.

REMARKS.--Records good. Diversions upstream from station for irrigation of meadows and for off-channel stock tanks.

AVERAGE DISCHARGE--11 years (water years 1963-73), 1.10 ft^3/s, 797 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,960 ft^3/s, July 30, 1968, gage height, 4.9 ft, site and datum then in use, from rating curve extended above 37 ft^3/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 discharge, 0.18 ft^3/s, May 5, gage height, 2.32 ft. No flow during most of seasonal operation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	---	---	---	---	---	---	.07	.00	.00	.00	.00
2	.00	---	---	---	---	---	---	.04	.00	.00	.00	.00
3	.00	---	---	---	---	---	---	.03	.00	.00	.00	.00
4	---	---	---	---	---	---	---	.09	.00	.00	.00	.00
5	---	---	---	---	---	---	---	.18	.00	.00	.00	.00
6	---	---	---	---	---	---	---	.12	.00	.00	.00	.00
7	---	---	---	---	---	---	---	.06	.00	.00	.00	.00
8	---	---	---	---	---	---	---	.02	.00	.00	.00	.00
9	---	---	---	---	---	---	---	.01	.00	.00	.00	.00
10	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
11	---	---	---	---	---	---	---	.00	.00	.00	.00	.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	.00
26	---	---	---	---	---	---	---	.00	.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	---	---	---	---	---	---	0.62	0.00	0.00	0.00	0.00
MEAN	.000	---	---	---	---	---	---	.020	.000	.000	.000	.000
MAX	.00	---	---	---	---	---	---	.18	.00	.00	.00	.00
MIN	.00	---	---	---	---	---	---	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	---	1.2	.00	.00	.00	.00

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 mi^2.

PERIOD OF RECORD.--October 1970 to current year. Published as "near Park View" prior to 1976.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by 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 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, 342,490 acre-ft, Aug. 19-25, elevation, 7,175.68 ft; minimum, 259,480 acre-ft, Apr. 26, elevation, 7,159.06 ft.

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

(Based on survey by Bureau of Reclamation in 1986)

7,160	263,800
7,170	312,700
7,180	336,200
7,190	424,800

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	285840	280420	272670	267390	266500	262770	263560	262490	310120	336050	339260	342270
2	285400	280610	272390	267390	266260	262630	263740	263790	311650	336530	339480	342210
3	284920	280660	272010	267390	266080	262540	263970	263140	313690	336800	339520	342210
4	284670	280660	271630	267390	265980	262350	264070	266170	315020	337010	339630	342210
5	284380	280660	271250	267390	265840	262210	263840	266780	318010	337120	339690	342160
6	284090	280610	270970	267300	265750	262070	263370	267150	319720	337340	339800	342050
7	283650	280560	270640	267250	265610	261980	263280	267580	321430	337440	339800	341890
8	283310	280510	270310	267250	265470	261980	263180	268280	323140	337600	339800	341670
9	283070	280320	270070	267250	265380	261930	263040	269550	324860	337920	340060	341620
10	282730	279940	269740	267300	265190	261980	262950	270780	326330	338080	340280	341620
11	282540	279700	269360	267250	265000	261930	262490	272440	326330	338140	340490	341520
12	282350	279210	269030	267390	264860	261840	262160	274240	326380	338290	340650	341460
13	281960	278830	268990	267390	264720	261740	261740	276200	326900	338350	340920	341410
14	281570	278490	268380	267340	264630	261600	261420	278010	327640	338400	341460	341360
15	281280	278350	268190	267340	264490	261280	261100	279790	328170	338780	341890	341250
16	281000	278300	268000	267670	264350	261050	260960	281910	328790	338830	342160	341190
17	280660	278350	267860	267580	264160	261190	260910	283850	329320	338880	342320	341080
18	280420	278250	267860	267530	263970	260960	260910	285740	330320	338720	342430	341030
19	280320	278250	267760	267530	263740	260860	261140	287690	330960	338830	342490	340980
20	280320	278250	267620	267480	263600	260770	261140	289550	331540	338830	342490	340920
21	280270	277440	267580	267480	263460	260770	260960	291320	332170	338830	342490	340820
22	280220	276960	267580	267480	263280	261140	260820	288080	332650	338880	342490	340710
23	280560	276480	267530	267480	263230	261420	260030	294570	333180	338940	342490	340710
24	280610	275910	267480	267480	263040	261840	259710	296310	328320	339100	342490	340650
25	280610	275190	267480	267440	262810	262300	259760	298350	333920	339200	342490	340600
26	280610	274530	267440	267300	262900	262810	259480	300140	334400	339420	342430	340650
27	280660	274050	267440	267200	262770	263230	259760	301990	334830	339420	342430	340650
28	280660	273810	267440	267060	262900	263330	260220	303850	335250	339370	342380	340440
29	280660	273430	267440	266920	---	263460	260820	305560	335620	339310	342430	340440
30	280710	273100	267440	266830	---	263230	261510	307180	335790	339370	342380	340330
31	280660	---	267390	266640	---	263230	---	308750	---	339480	342320	---
MAX	285840	280660	272670	267670	266500	263460	264070	308750	335790	339480	342490	342270
MIN	280220	273100	267390	266640	262770	260770	259480	262490	310120	336050	339260	340330
(+)	7163.45	7161.98	7160.75	7160.60	7159.80	7159.87	7159.50	7169.23	7174.42	7175.12	7175.65	7175.38
(++)	-6110	-7120	-5710	-750	-3740	+330	-1720	+47240	+27040	+3690	+2840	-1990

CAL YR 2000 MAX 379760 MIN 267390 (++)-112550
WTR YR 2001 MAX 342490 MIN 259480 (++) +54000

(+) Elevation, in feet, at end of month.
(++) Change in contents, in acre-feet.

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 mi^2.

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 inch and 120 inch in diameter.

COOPERATION.--Records provided by Bureau of Reclamation.

AVERAGE DISCHARGE.--30 years, 129 ft^3/s, 93,460 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,780 ft^3/s, Dec. 18, 19, 1982; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 550 ft^3/s, Apr. 18-30; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	.00	200	.00	100	100	400	419	.00	.00	.00	.00
2	150	.00	200	.00	100	100	400	200	.00	.00	.00	.00
3	129	.00	200	.00	100	100	400	200	.00	.00	.00	.00
4	100	.00	200	.00	100	100	400	200	.00	.00	.00	.00
5	100	.00	200	.00	100	100	400	200	.00	.00	.00	.00
6	100	.00	200	.00	100	100	400	200	.00	.00	.00	.00
7	100	.00	200	.00	100	100	400	200	.00	.00	.00	.00
8	100	104	200	.00	100	100	400	117	.00	.00	.00	.00
9	100	200	200	.00	100	100	400	.00	.00	.00	.00	.00
10	100	200	200	.00	100	100	400	.00	.00	.00	.00	.00
11	100	200	200	.00	100	100	400	.00	.00	.00	.00	.00
12	100	200	200	.00	100	100	400	.00	.00	.00	.00	.00
13	100	200	200	.00	100	100	400	.00	.00	.00	.00	.00
14	100	200	200	.00	100	156	400	.00	.00	.00	.00	.00
15	100	80	132	.00	100	200	400	.00	.00	.00	.00	.00
16	100	.00	45	.00	100	200	400	.00	.00	.00	.00	.00
17	100	.00	45	.00	100	200	481	.00	.00	.00	.00	.00
18	53	.00	45	.00	100	200	550	.00	.00	.00	.00	.00
19	.00	.00	45	.00	100	200	550	.00	.00	.00	.00	.00
20	.00	.00	16	.00	100	200	550	.00	.00	.00	.00	.00
21	.00	216	.00	.00	100	200	550	.00	.00	.00	.00	.00
22	.00	400	.00	.00	100	200	550	.00	.00	.00	.00	.00
23	.00	400	.00	.00	100	200	550	.00	.00	.00	.00	.00
24	.00	400	.00	.00	100	200	550	.00	.00	.00	.00	.00
25	.00	400	.00	62	100	200	550	.00	.00	.00	.00	.00
26	.00	400	.00	100	100	200	550	.00	.00	.00	.00	.00
27	.00	296	.00	100	100	200	550	.00	.00	.00	.00	.00
28	.00	200	.00	100	100	200	550	.00	.00	.00	.00	.00
29	.00	200	.00	100	---	304	550	.00	.00	.00	.00	.00
30	.00	200	.00	100	---	400	550	.00	.00	.00	.00	.00
31	.00	---	.00	100	---	400	---	.00	---	.00	.00	---
TOTAL	1882.00	4496.00	3128.00	662.00	2800	5360	14031	1736.00	0.00	0.00	0.00	0.00
MEAN	60.7	150	101	21.4	100	173	468	56.0	.000	.000	.000	.000
MAX	150	400	200	100	100	400	550	419	.00	.00	.00	.00
MIN	.00	.00	.00	.00	100	100	400	.00	.00	.00	.00	.00
AC-FT	3730	8920	6200	1310	5550	10630	27830	3440	.00	.00	.00	.00

CAL YR 2000 TOTAL 77730.00 MEAN 212 MAX 850 MIN .00 AC-FT 154200
WTR YR 2001 TOTAL 34095.00 MEAN 93.4 MAX 550 MIN .00 AC-FT 67630

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 mi^2, of which about 100 mi^2 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 from capacity table of 1987 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 ft^3/s to about 6,000 ft^3/s.

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 204,900 acre-ft, of which 7,400 acre-ft was uncontrolled storage, Sept. 29, 2000, gage height, 6,826.08 ft; no storage at times prior to December 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 180,550 acre-ft, June 10, 11, elevation 6,900.22 ft; minimum, 16,330 acre-ft, Nov. 9, elevation, 6,809.36 ft.

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

(Based on survey by Bureau of Reclamation in 1987)

6,820	25,620	6,865	89,870
6,825	30,720	6,875	111,000
6,830	36,330	6,885	135,900
6,830	42,400	6,895	164,400
6,840	48,980	6,900	179,800
6,845	56,100	6,901	183,040
6,850	63,730		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31920	19540	22490	23800	21000	22490	35170	104340	179880	177480	164450	140320
2	31950	19130	22740	23660	21040	22560	36340	111920	179940	177320	163900	138830
3	31920	19080	22990	23510	21070	22640	37800	115310	180010	177200	163150	137460
4	31450	19020	23220	23470	21090	22780	39510	119180	179880	177010	162160	136070
5	31720	18980	23460	23270	21140	22900	41310	122150	179880	176720	161140	134640
6	31660	18560	23620	23150	21140	23000	43060	124820	179940	176480	160100	133060
7	31580	17660	23920	23020	21170	23160	44480	127940	180100	176190	159200	131370
8	31520	16810	24180	22870	21220	23390	45710	131240	180320	175850	158430	129530
9	31450	16330	24460	22730	21240	23640	46720	134780	180480	175560	157660	127790
10	31400	16830	24720	22610	21270	23900	47920	140210	180550	175310	156810	126160
11	31480	17150	24940	22490	21290	24060	49120	143890	180550	175030	155900	124440
12	31580	17450	25090	22360	21320	24200	50060	149370	180230	174750	155230	122820
13	31720	17690	25290	22240	21330	24320	51060	153690	180040	174160	154760	121280
14	31830	17950	25470	22110	21380	24560	52120	158670	180010	173190	154410	119810
15	31920	18080	25610	21970	21410	24830	53230	166850	180010	172570	153920	118420
16	31990	18040	25540	21910	21430	25120	54620	168160	179940	172390	153510	117030
17	32070	17960	25480	21760	21460	25450	56620	172570	179910	172100	152850	115720
18	31590	17890	25450	21620	21480	25740	59190	175600	179820	171800	151890	114530
19	30650	17830	25400	21500	21530	26040	62550	177700	179720	171550	151380	113220
20	29740	17760	25350	21360	21570	26380	65670	179690	179530	170930	150950	111920
21	28790	18100	25230	21230	21650	26810	68850	180170	179370	169910	150800	110540
22	27860	18710	25120	21120	21810	27360	72110	179630	179180	169240	150690	109240
23	27060	19350	24990	20990	21950	27960	74420	179400	179030	169020	150570	107980
24	26220	19920	24870	20860	22020	28570	75450	179600	178840	169080	149860	106790
25	25370	20490	24760	20810	22070	29230	77840	180070	178650	168620	148660	105460
26	24520	21090	24610	20820	22170	30020	80490	180290	178460	168470	147450	104020
27	23600	21510	24500	20850	22240	30810	84250	180390	178270	167860	146230	102610
28	22810	21710	24340	20880	22440	31630	88630	180390	178020	166850	145090	101150
29	22080	21970	24200	20930	---	32440	93480	180070	177860	166020	144000	99690
30	21280	22260	24070	20950	---	33280	99160	179850	177700	165510	142920	98280
31	20380	---	23940	20990	---	34150	---	179910	---	165030	141690	---
MAX	32070	22260	25610	23800	22440	34150	99160	180390	180550	177480	164450	140320
MIN	20380	16330	22490	20810	21000	22490	35170	104340	177700	165030	141690	98280
(+)	6814.30	6816.42	6818.24	6814.99	6816.62	6828.11	6869.59	6900.02	6899.32	6895.22	6887.15	6869.17
(++)	-11540	+1880	+1680	-2950	+1450	+11710	+65010	+80750	-2210	-12670	-23340	-43410

CAL YR 2000 MAX 179880 MIN 6900 (++) -115540
WTR YR 2001 MAX 180550 MIN 6900 (++) +663360

(+) Elevation, in feet, at end of month.
(++) Change in contents, in acre-feet.

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 mi^2, of which about 100 mi^2 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 with satellite telemetry. 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.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	501	81	116	111	102	160	92	760	180	309	724
2	185	281	81	116	111	102	161	94	684	180	310	722
3	169	89	81	116	111	102	130	95	615	180	415	720
4	190	89	81	116	111	102	102	98	597	179	527	720
5	183	89	82	115	111	102	130	98	541	179	525	719
6	189	251	82	115	111	103	135	99	408	179	526	814
7	190	520	82	115	112	103	105	99	353	179	482	863
8	190	508	82	115	112	103	105	99	355	179	417	861
9	189	263	82	114	111	104	106	100	357	179	417	860
10	170	76	82	114	111	102	106	101	355	179	461	857
11	145	77	103	115	111	101	106	101	415	179	510	857
12	136	77	121	115	111	100	107	102	405	178	417	858
13	135	77	121	114	111	100	108	104	342	334	312	805
14	135	74	121	113	112	99	108	162	301	520	313	721
15	135	76	120	113	111	99	108	262	246	344	311	723
16	134	76	119	113	111	100	108	414	216	154	306	721
17	134	77	119	113	111	100	98	616	211	154	407	660
18	349	77	118	113	112	100	91	874	223	153	517	604
19	493	76	118	113	114	100	91	1290	224	154	381	662
20	493	76	118	111	113	100	93	1570	224	332	188	702
21	492	77	118	111	109	101	93	2040	223	521	120	666
22	493	77	118	111	106	101	95	2030	222	349	98	632
23	495	78	117	111	106	102	95	1690	219	152	98	631
24	497	79	117	111	105	102	97	1250	215	152	348	630
25	498	80	116	111	104	103	98	1050	213	153	620	678
26	506	80	116	111	102	105	98	1140	212	153	619	734
27	509	80	116	111	102	105	100	1140	214	335	598	726
28	507	80	116	111	102	102	101	1170	195	521	577	722
29	505	81	116	111	---	129	102	1190	182	415	577	722
30	504	81	116	111	---	165	96	999	192	304	577	721
31	503	---	116	111	---	159	---	797	---	306	653	---
TOTAL	9638	4223	3276	3506	3065	3298	3233	20966	9919	7656	12936	22035
MEAN	311	141	106	113	109	106	108	676	331	247	417	734
MAX	509	520	121	116	114	165	161	2040	760	521	653	863
MIN	134	74	81	111	102	99	91	92	182	152	98	604
AC-FT	19120	8380	6500	6950	6080	6540	6410	41590	19670	15190	25660	43710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2001, BY WATER YEAR (WY)

MEAN	222	184	278	157	168	294	820	1607	863	409	380	344
MAX	640	646	1272	435	522	962	1887	3412	2342	854	726	1010
(WY)	1998	1987	1976	1987	1986	1985	1986	1985	1995	2000	1998	1998
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1971 - 2001	
ANNUAL TOTAL	169650		103751			
ANNUAL MEAN	464		284		[a]479	
HIGHEST ANNUAL MEAN					754	1985
LOWEST ANNUAL MEAN					194	1972
HIGHEST DAILY MEAN	1250	May 26	2040	May 21	[b]5790	May 21 1973
LOWEST DAILY MEAN	74	Nov 14	74	Nov 14	11	Oct 1 1972
ANNUAL SEVEN-DAY MINIMUM	76	Nov 14	76	Nov 14	16	Oct 14 1974
ANNUAL RUNOFF (AC-FT)	336500		205800		346900	
10 PERCENT EXCEEDS	992		709		1120	
50 PERCENT EXCEEDS	408		121		224	
90 PERCENT EXCEEDS	83		92		50	

a Average discharge for 5 years (water years 1914-15, 1921-23), 448 ft^3/s, 324,600 acre-ft/yr, prior to completion of El Vado Dam. 35 years (water years 1936-70), 373 ft^3/s, 270,200 acre-ft/yr, prior to release of transmountain water.
b Maximum discharge 9,000 ft^3/s; May 22, 1920, gage height 12 ft, site and datum then in use, from rating curve extended above 3,500 ft^3/s; no flow Mar. 25, 26, 31, 1955. Maximum discharge since construction of El Vado Dam in 1935, 6,610 ft^3/s, May 7, 1985, gage height 7.08 ft.

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, 9.0 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 mi^2, of which about 100 mi^2 is probably noncontributing.

PERIOD OF RECORD.--August 1961 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,280 ft above National Geodetic Vertical Datum of 1929, from topographic map. August 1961 to October 1998 water-stage recorder at present site at datum 3.00 ft higher.

REMARKS.--Records good except for those estimated, which are fair. 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.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	197	500	83	e112	e117	116	171	158	744	189	318	691
2	197	472	82	e112	e115	108	176	164	705	179	330	692
3	197	123	83	e112	e114	120	180	186	628	179	379	693
4	189	103	83	e111	e115	112	129	201	594	177	514	692
5	205	103	82	e110	e116	119	120	196	573	176	519	690
6	195	99	83	e111	e115	119	182	169	484	176	527	731
7	202	462	82	e111	115	134	150	154	369	176	524	820
8	205	503	84	e111	115	137	129	156	371	176	429	822
9	205	463	87	e111	114	156	123	155	370	178	428	821
10	204	102	85	e110	112	138	122	161	365	177	448	820
11	169	88	85	e111	113	129	126	175	382	182	576	820
12	157	83	106	e110	113	113	125	191	431	176	527	819
13	149	81	113	e109	114	117	125	198	364	178	344	810
14	146	80	114	e106	141	110	119	198	321	485	425	699
15	145	e79	e112	e109	128	106	119	300	282	480	327	693
16	145	e79	e112	e110	119	107	120	418	221	170	350	691
17	145	e79	e108	e110	119	112	125	601	218	154	333	668
18	184	e79	e109	e111	129	108	113	834	212	154	505	593
19	488	e78	e110	e112	175	128	118	1230	218	153	488	613
20	487	e79	e111	e113	220	111	124	1540	218	159	238	671
21	486	e79	e112	e114	195	114	125	1850	217	511	163	663
22	492	e80	e113	e115	193	130	134	2100	216	494	105	615
23	536	e80	e113	e116	175	131	130	1740	215	175	98	613
24	589	e81	e112	e116	127	131	122	1440	213	161	101	612
25	533	82	e111	e116	111	125	122	1040	213	159	579	618
26	512	81	e111	e118	112	122	120	1150	216	159	591	700
27	515	82	e111	e119	116	121	127	1140	214	165	600	696
28	527	82	e113	e119	147	118	140	1160	210	507	566	693
29	511	83	e112	e119	---	116	155	1180	181	492	573	690
30	506	83	e112	e118	---	168	164	1090	185	314	570	690
31	502	---	e112	e118	---	169	---	815	---	305	588	---
TOTAL	9920	4548	3146	3500	3695	3845	4035	22090	10150	7516	13063	21139
MEAN	320	152	101	113	132	124	134	713	338	242	421	705
MAX	589	503	114	119	220	169	182	2100	744	511	600	822
MIN	145	78	82	106	111	106	113	154	181	153	98	593
AC-FT	19680	9020	6240	6940	7330	7630	8000	43820	20130	14910	25910	41930

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2001, BY WATER YEAR (WY)

MEAN	234	190	285	164	192	338	876	1714	908	421	399	350
MAX	737	676	1273	431	495	1050	1985	3741	2619	841	784	1036
(WY)	1998	1987	1976	1987	1987	1985	1985	1984	1995	2000	1998	1998
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1971 - 2001	
ANNUAL TOTAL	169723		106647			
ANNUAL MEAN	464		292		[a]508	
HIGHEST ANNUAL MEAN					823	1980
LOWEST ANNUAL MEAN					204	1972
HIGHEST DAILY MEAN	1220	May 27	2100	May 22	6480	May 18 1984
LOWEST DAILY MEAN	78	Nov 19	78	Nov 19	11	Oct 3 1972
ANNUAL SEVEN-DAY MINIMUM	79	Nov 15	79	Nov 15	20	Oct 15 1974
MAXIMUM PEAK FLOW			2340	May 22	6680	May 8 1985
MAXIMUM PEAK STAGE			8.72	May 22	[b]7.67	May 8 1985
INSTANTANEOUS LOW FLOW			43	Nov 15	[c]7.5	Oct 17 1963
ANNUAL RUNOFF (AC-FT)	336600		211500		367700	
10 PERCENT EXCEEDS	976		690		1170	
50 PERCENT EXCEEDS	446		159		236	
90 PERCENT EXCEEDS	86		103		65	

e Estimated
a Average discharge for 9 years (water years 1962-70), 358 ft^3/s, 259,400 acre-ft/yr, prior to release of transmountain water.
b Maximum gage height, 8.70 ft, May 20, 1973.
c Also occurred Oct. 18.

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 mi^2, of which about 100 mi^2 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. Army 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, 153,500 acre-ft, June 17, elevation, 6,212.08 ft; minimum, 69,210 acre-ft, Oct. 10, elevation, 6,185.19 ft.

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

(Based on survey by U.S. Army Corps of Engineers in 1990)

6,180	60,320	6,200	115,360
6,190	85,480	6,220	189,310

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74550	82440	87940	91500	95590	100160	105460	108840	146090	151260	131920	121520
2	73760	83060	88030	91610	95710	100340	105710	109060	147100	151040	131470	121060
3	72880	83220	88110	91760	95860	100490	105990	109410	148120	150670	131090	120560
4	72060	83170	88170	91900	95980	100640	106240	109700	149030	150380	130710	120200
5	71240	83220	88260	92050	96120	100770	106550	109980	149760	149870	130360	119930
6	70480	83420	88340	92170	96280	100920	106830	110260	150380	148990	130050	119740
7	69720	84140	88430	92280	96420	101130	107140	110460	150890	148080	129700	119640
8	69340	85130	88520	92430	96660	101380	107430	110610	151330	147140	129360	119570
9	69290	85610	88600	92580	96840	101590	107680	110770	151660	146200	129120	119470
10	69210	85860	88690	92720	96930	101780	107990	110930	152030	145190	129010	119270
11	69240	86090	88740	92870	97050	101990	108120	111090	152500	144400	128980	118940
12	69290	86320	88860	92990	97200	102150	108180	111280	152870	143680	128940	118620
13	69410	86400	89030	93100	97350	102210	108240	111470	153090	143390	128740	118420
14	69560	86460	89210	93190	97560	102330	108240	111690	153310	143320	128700	118290
15	69720	86540	89290	93280	97740	102390	108280	112140	153420	143280	128810	118160
16	69790	86600	89380	93430	97920	102510	108240	112900	153460	143000	129150	117960
17	69890	86660	89440	93550	98100	102700	107930	113960	153500	142460	129390	117900
18	70200	86710	89550	93660	98250	102850	108120	115760	153460	141780	129570	117800
19	71010	86740	89670	93750	98400	103010	107960	117860	153350	141100	129700	117640
20	71960	86800	89810	93870	98700	103160	107680	120000	153350	140530	129290	117440
21	72910	86860	89930	93990	99040	103320	107360	122730	153200	139960	128320	117280
22	73870	87030	90070	94140	99280	103470	107180	126020	152840	139400	127190	117080
23	75020	87280	90220	94280	99430	103660	107210	129320	152360	138400	125780	116890
24	75760	87430	90390	94430	99490	103840	107300	131850	151920	137310	124560	116600
25	76270	87480	90540	94580	99550	104030	107460	133840	151590	136260	124420	116240
26	76960	87570	90680	94730	99700	104180	107620	135830	151510	135200	124180	115980
27	77900	87630	90830	94900	99820	104370	107770	137840	151480	134710	123810	115760
28	78900	87710	90940	95050	100010	104490	108060	139860	151370	134430	123300	115530
29	79940	87830	91060	95200	---	104650	108340	141850	151290	134190	122830	115340
30	80870	87880	91170	95320	---	104900	108620	143570	151290	133490	122430	115110
31	81640	---	91320	95470	---	105180	---	144970	---	132550	121960	---
MAX	81640	87880	91320	95470	100010	105180	108620	144970	153500	151260	131920	121520
MIN	69210	82440	87940	91500	95590	100160	105460	108840	146090	132550	121960	115110
(+)	6189.90	6192.12	6193.31	6194.72	6196.23	6197.91	6199.01	6209.74	6211.48	6206.23	6203.23	6201.05
(++)	+6360	+6240	+3440	+4150	+4540	+5170	+3440	+36350	+6320	-18740	-10590	-6850

CAL YR 2000 MAX 182230 MIN 69210 (++) -85990
WTR YR 2001 MAX 153500 MIN 69210 (++) +39830

(+) Elevation, in feet, at end of month
(++) Change in contents, in acre-feet

08287000 RIO CHAMA BELOW ABIQUIU DAM, NM

LOCATION.--Lat 36°14'12", long 106°24'59", in $SE^1/_4SE^1/_4$ 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 mi^2, of which about 100 mi^2 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 with satellite telemetry. 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 except for those estimated, which are fair. Flow regulated 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. Several observations of water temperature taken during year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	526	105	56	53	56	49	48	153	155	208	652	903
2	599	121	56	52	56	49	69	153	161	285	529	951
3	595	142	55	52	56	48	102	154	162	323	618	987
4	593	133	54	52	56	51	101	150	161	298	688	912
5	594	99	54	52	56	49	101	148	162	352	694	858
6	577	49	53	52	56	50	92	148	161	457	702	835
7	565	47	54	52	55	49	89	148	162	567	702	829
8	363	39	54	51	56	49	89	148	163	678	694	826
9	194	41	54	54	55	52	82	148	163	700	564	894
10	194	43	54	54	55	51	77	147	161	601	486	967
11	194	45	55	54	56	52	99	147	160	502	483	1000
12	115	47	54	53	56	52	110	148	161	475	618	1030
13	63	52	54	53	e55	54	128	148	161	529	639	967
14	76	50	54	53	e55	58	151	148	161	506	443	843
15	75	52	53	53	e55	54	151	148	160	401	316	815
16	107	52	52	54	e54	50	219	148	160	355	227	817
17	83	51	53	54	e54	51	346	147	196	411	193	716
18	70	53	52	54	e53	50	236	147	202	462	305	692
19	53	52	52	54	e53	48	399	143	202	460	472	737
20	59	53	53	54	53	51	400	364	202	540	532	793
21	53	54	e52	54	52	52	397	503	235	650	598	776
22	52	53	e53	54	55	51	309	280	342	681	701	748
23	89	53	e53	54	102	51	190	142	461	739	751	747
24	280	53	e52	54	109	50	147	142	396	792	685	806
25	318	52	e53	55	100	51	146	145	309	755	639	851
26	186	52	e52	54	87	50	147	145	236	659	697	851
27	101	52	e53	55	73	49	147	145	223	527	e764	851
28	93	52	e53	56	64	49	148	145	223	406	e842	856
29	92	49	e53	56	---	51	147	149	192	632	e862	855
30	93	52	52	56	---	50	151	150	174	806	799	851
31	110	---	52	56	---	49	---	150	---	809	861	---
TOTAL	7162	1848	1654	1664	1743	1570	5018	5281	6167	16566	18756	25564
MEAN	231	61.6	53.4	53.7	62.2	50.6	167	170	206	534	605	852
MAX	599	142	56	56	109	58	400	503	461	809	862	1030
MIN	52	39	52	51	52	48	48	142	155	208	193	692
AC-FT	14210	3670	3280	3300	3460	3110	9950	10470	12230	32860	37200	50710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2001, BY WATER YEAR (WY)

MEAN	300	283	289	179	233	403	845	1195	1071	656	496	457
MAX	1261	1181	1308	860	1708	1668	1894	2055	2418	1488	1135	1199
(WY)	1988	1980	1976	1986	1987	1987	1985	1983	1984	1973	2000	1987
MIN	44.9	45.8	43.9	35.7	38.0	50.6	111	170	184	201	98.4	64.4
(WY)	1979	1990	1975	1978	1978	2001	1977	2001	1976	1972	1979	1972

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1971 - 2001	
ANNUAL TOTAL	223377		92993			
ANNUAL MEAN	610		255		[a]535	
HIGHEST ANNUAL MEAN					872	1987
LOWEST ANNUAL MEAN					213	1972
HIGHEST DAILY MEAN	1560	Jun 20	1030	Sep 12	2660	May 15 1985
LOWEST DAILY MEAN	39	Nov 8	39	Nov 8	10	Sep 19 1972
ANNUAL SEVEN-DAY MINIMUM	44	Nov 6	44	Nov 6	21	Sep 30 1972
ANNUAL RUNOFF (AC-FT)	443100		184500		387400	
10 PERCENT EXCEEDS	1380		747		1560	
50 PERCENT EXCEEDS	547		142		309	
90 PERCENT EXCEEDS	53		52		54	

e Estimated
a Average discharge for 9 years (water years 1962-70), 384 ft^3/s, 278,200 acre-ft/yr, prior to release of transmountain water.

08289000 RIO OJO CALIENTE AT LA MADERA, NM

LOCATION.--Lat 36°20'59", long 106°02'37", in NW$^1/_4$NE$^1/_4$ 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 mi^2.

PERIOD OF RECORD.--April 1932 to current year.

REVISED RECORDS.--WSP 1712: 1959.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,358.84 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 23, 1934, at site about 2.6 mi upstream at different datum. Apr. 23, 1934 to Apr. 21, 1936, at datum 12.58 ft lower and Apr. 22, 1936 to Oct. 26, 1956, at datum 13.84 ft lower, both at site 1,400 ft downstream.

REMARKS.--Records good except for those estimated, which are poor. Diversions upstream from station for irrigation of about 3,500 acres (1962 determination). Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Apr. 21, 1958, may have been exceeded by a flood in May 1920, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	17	16	15	15	22	94	431	22	4.4	4.2	4.2
2	3.6	16	16	15	17	22	116	441	18	4.1	4.4	3.9
3	3.6	16	17	14	17	22	138	336	16	3.9	4.9	3.4
4	3.9	16	16	15	18	22	151	272	14	3.7	4.7	3.6
5	4.2	16	16	15	19	24	150	211	12	3.6	4.2	3.9
6	4.0	17	15	16	20	25	151	186	e11	3.8	5.4	3.7
7	4.6	16	16	16	21	27	130	196	e11	3.6	3.6	3.6
8	4.7	16	19	15	22	31	133	189	e10	3.6	4.7	3.6
9	4.7	16	19	15	21	34	122	215	e9.5	4.1	6.6	3.5
10	4.9	15	16	16	18	36	120	222	e9.0	3.8	6.9	3.4
11	5.1	19	19	16	19	33	103	229	e8.7	4.0	7.3	3.5
12	6.0	16	13	16	19	33	105	199	7.7	3.9	6.2	3.4
13	5.3	13	17	16	19	28	101	187	6.8	4.0	8.4	3.7
14	5.1	14	16	15	22	32	98	184	7.0	5.1	10	4.3
15	5.1	18	18	15	18	31	98	202	6.6	11	9.6	4.2
16	5.1	14	17	16	17	32	112	187	5.9	5.8	10	4.1
17	5.2	14	14	15	19	35	140	169	5.6	5.0	9.3	3.8
18	5.2	15	13	15	21	30	205	142	6.6	4.5	9.0	3.6
19	5.3	15	13	16	23	30	290	126	6.1	4.7	8.3	3.9
20	5.4	16	14	16	24	35	307	140	3.8	4.4	7.7	3.4
21	5.5	16	15	16	24	46	276	125	4.2	4.3	4.7	3.6
22	5.7	19	16	16	25	72	215	99	4.7	4.4	5.0	3.6
23	8.0	19	16	16	26	82	155	86	5.2	4.6	5.2	3.8
24	15	15	16	17	24	90	160	76	4.3	4.0	5.0	3.6
25	13	16	17	17	21	98	185	62	4.5	4.0	6.2	3.9
26	12	16	17	17	23	116	265	56	5.2	4.7	5.6	3.9
27	12	18	15	18	24	110	345	47	5.4	5.7	5.3	3.7
28	20	17	16	17	25	109	430	38	5.0	5.6	3.9	4.0
29	32	17	16	17	---	92	495	35	4.9	5.5	3.7	3.8
30	20	18	16	17	---	82	483	30	5.8	4.0	4.4	3.5
31	18	---	16	17	---	83	---	27	---	4.8	4.3	---
TOTAL	255.8	486	496	493	581	1564	5873	5145	246.5	142.6	188.7	112.1
MEAN	8.25	16.2	16.0	15.9	20.8	50.5	196	166	8.22	4.60	6.09	3.74
MAX	32	19	19	18	26	116	495	441	22	11	10	4.3
MIN	3.6	13	13	14	15	22	94	27	3.8	3.6	3.6	3.4
AC-FT	507	964	984	978	1150	3100	11650	10210	489	283	374	222

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2001, BY WATER YEAR (WY)

MEAN	14.8	18.2	17.8	18.5	23.0	58.7	278	322	51.1	9.98	14.3	10.7
MAX	57.5	49.2	36.0	33.5	55.5	211	979	1256	298	33.1	68.1	29.8
(WY)	1987	1987	1987	1952	1941	1995	1937	1941	1995	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1933 - 2001	
ANNUAL TOTAL	8121.5		15583.7			
ANNUAL MEAN	22.2		42.7		70.0	
HIGHEST ANNUAL MEAN					205	1941
LOWEST ANNUAL MEAN					13.4	1977
HIGHEST DAILY MEAN	207	Apr 19	495	Apr 29	2180	Apr 23 1942
LOWEST DAILY MEAN	[a]3.4	Aug 11	3.4	Sep 3	.60	Aug 18 1956
ANNUAL SEVEN-DAY MINIMUM	3.4	Sep 10	3.5	Sep 6	1.1	Oct 1 1956
MAXIMUM PEAK FLOW			722	Apr 29	3640	Aug 14 1994
MAXIMUM PEAK STAGE			5.44	Apr 29	8.27	Aug 14 1994
INSTANTANEOUS LOW FLOW			3.0	Jul 24	.20	Aug 17 1956
ANNUAL RUNOFF (AC-FT)	16110		30910		50680	
10 PERCENT EXCEEDS	40		139		170	
50 PERCENT EXCEEDS	14		16		18	
90 PERCENT EXCEEDS	4.0		3.9		5.4	

e Estimated
a Many days.

08290000 RIO CHAMA NEAR CHAMITA, NM

LOCATION.--Lat 36°04'26", long 106°06'40", in NE$^1/_4$NE$^1/_4$ 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 mi^2, of which about 100 mi^2 is probably noncontributing.

WATER-DISCHARGE RECORDS

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 with satellite telemetry. 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.--Water-discharge records good except for those estimated, 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. No flow at times some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--The floods of Sept. 29, 1904, and Oct. 4 or 5, 1911, probably exceeded 15,000 ft^3/s. Another major flood occurred in 1884, from newspaper accounts.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	449	158	73	87	e89	107	172	679	83	162	784	862
2	498	102	75	90	e91	94	199	682	82	182	569	908
3	525	160	75	88	e92	94	245	609	87	287	584	972
4	523	159	67	88	94	94	284	519	84	253	702	947
5	524	149	67	86	96	98	311	459	88	262	672	812
6	519	77	67	86	98	98	308	372	90	372	662	786
7	504	70	67	85	102	103	266	395	90	489	696	778
8	480	76	70	85	103	108	233	359	85	646	716	774
9	e320	62	68	86	103	108	231	347	90	723	597	821
10	e200	51	67	91	95	112	217	386	89	652	442	977
11	e199	59	68	88	97	113	204	403	90	471	437	1020
12	195	64	69	88	95	112	208	369	83	412	456	1020
13	e92	60	69	91	96	108	233	346	86	488	717	993
14	e79	63	72	83	100	110	249	346	85	576	630	826
15	92	66	71	89	83	116	222	365	86	453	385	753
16	e89	66	e70	97	81	111	239	327	97	322	389	742
17	e110	64	e70	89	87	113	456	299	86	332	268	691
18	e73	66	e69	e80	181	114	574	255	131	427	272	590
19	e60	68	e71	e84	99	107	689	265	119	423	521	650
20	e55	67	e69	e84	98	107	871	313	126	446	671	716
21	e65	69	e72	e85	96	119	e910	518	135	601	509	735
22	e60	72	e73	e84	97	150	e870	482	216	706	635	667
23	e63	84	e77	e89	104	167	e540	175	374	746	702	679
24	e200	79	e77	e90	166	176	334	141	383	910	672	693
25	373	72	e80	94	149	180	317	120	297	810	574	773
26	302	70	82	91	150	204	393	126	204	888	604	762
27	127	72	e87	102	130	204	529	116	162	763	681	785
28	333	72	93	97	125	198	615	109	164	411	761	781
29	143	72	89	96	---	180	791	109	164	497	845	779
30	131	71	89	94	---	169	732	85	132	883	723	772
31	125	---	88	94	---	163	---	93	---	876	752	---
TOTAL	7508	2440	2301	2761	2997	4037	12442	10169	4088	16469	18628	24064
MEAN	242	81.3	74.2	89.1	107	130	415	328	136	531	601	802
MAX	525	160	93	102	181	204	910	682	383	910	845	1020
MIN	55	51	67	80	81	94	172	85	82	162	268	590
AC-FT	14890	4840	4560	5480	5940	8010	24680	20170	8110	32670	36950	47730
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2001, BY WATER YEAR (WY)												
MEAN	316	311	321	220	275	472	1091	1531	1066	621	480	445
MAX	1273	1224	1291	876	1677	1705	2534	2741	2346	1477	1114	1164
(WY)	1988	1980	1976	1986	1987	1987	1985	1983	1984	1983	2000	1987
MIN	37.3	60.6	74.2	63.5	66.6	85.1	120	204	117	170	95.5	83.1
(WY)	1979	1990	2001	1975	1978	1977	1977	1972	1976	1972	1979	1974

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1971 - 2001	
ANNUAL TOTAL	226451		107904			
ANNUAL MEAN	619		296		[a]597	
HIGHEST ANNUAL MEAN					923	1987
LOWEST ANNUAL MEAN					234	1972
HIGHEST DAILY MEAN	1600	Jun 27	1020	Sep 11	3570	May 5 1985
LOWEST DAILY MEAN	51	Nov 10	51	Nov 10	1.2	Sep 16 1971
ANNUAL SEVEN-DAY MINIMUM	61	Nov 9	61	Nov 9	1.7	Sep 10 1971
MAXIMUM PEAK FLOW			2420	Jul 26	[b]15000	May 22 1920
MAXIMUM PEAK STAGE			6.08	Jul 26	[c]11.68	Sep 1 1994
INSTANTANEOUS LOW FLOW			43	Nov 9		
ANNUAL RUNOFF (AC-FT)	449200		214000		432300	
10 PERCENT EXCEEDS	1370		744		1670	
50 PERCENT EXCEEDS	524		158		336	
90 PERCENT EXCEEDS	71		71		80	

e Estimated
a Average discharge for 58 years (water years 1913-70), 541 ft^3/s, 392,000 acre-ft/yr, prior to release of transmountain water.
b From rating curve extended above 2,000 ft^3/s.
c From floodmarks of slope-area measurement of peak flow.

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 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
OCT													
05...	1115	15.0	12.0	620	517	18	362	8.5	104	8.4	--	--	--
NOV													
08...	1040	3.5	.5	620	70	25	515	11.0	102	8.2	.0	195	.020
16...	1115	1.5	.00	618	69	28	533	11.8	104	8.0	--	--	--
DEC													
07...	1115	1.5	3.5	620	64	15	534	11.7	103	8.0	--	--	--
JAN													
11...	1030	.5	-0.5	623	85	22	518	12.5	106	8.0	--	--	--
FEB													
23...	1340	8.0	11.5	610	96	25	502	10.2	108	8.4	--	--	--
JUL													
19...	1530	19.5	30.5	620	419	37	376	7.2	97	8.2	.0	117	<.010

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)
OCT													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
08...	.04	<.010	<.20	.23	<.020	.020	.050	.010	190	56.2	12.1	37.4	1
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
19...	.04	<.010	.26	.35	<.020	.040	<.020	<.010	140	43.0	8.96	17.9	.6

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)
OCT													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
08...	2.89	13.2	89.0	.4	19.4	3.5	119	<.06	74	.06	<.8	.23	1.2
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
19...	2.10	3.6	78.8	.2	12.0	E1.5	80.1	<.06	25	<.04	E.5	.10	1.4

08290000 RIO CHAMA NEAR CHAMITA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
OCT													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
08...	<10	.18	37.8	2.1	.63	<1.0	2	.18	4	<2.4	<2.6	4.48	47
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
19...	<10	<.08	4.2	1.8	.21	<1.0	<1	.13	3	<2.0	<3.0	1.22	--

DATE	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
OCT								
05...	--	--	--	--	--	--	49	--
NOV								
08...	160	160	--	327	78	<.14	102	168
16...	--	--	--	--	--	--	124	--
DEC								
07...	--	--	--	--	--	--	47	--
JAN								
11...	--	--	--	--	--	--	540	--
FEB								
23...	--	--	--	--	--	--	263	--
JUL								
19...	--	96	39	224	28	<.01	295	101

Remark codes used in this report:
< -- Less than
E -- Estimated value

08291000 SANTA CRUZ RIVER AT CUNDIYO, NM

LOCATION.--Lat 35°57'53", long 105°54'14", in $SE^1/_4NW^1/_4$ sec.17, T.20 N., R.10 E., Santa Fe County, Hydrologic Unit 13020101, on left bank 135 ft downstream from bridge on State Highway 503, 200 ft downstream from confluence of Rio Medio and Rio Frijoles, 0.6 mi northwest of Cundiyo, 1.8 mi upstream from Santa Cruz Dam, and at mile 11.9.

DRAINAGE AREA.--86 mi^2, approximately.

PERIOD OF RECORD.--July 1931 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. July 1, 1931 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 fair except for those estimated, which are poor. Diversions for irrigation of about 1,000 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	15	e9.0	e8.2	e7.9	13	31	76	89	15	13	18
2	6.2	14	e9.2	e8.1	e8.2	13	37	84	82	15	34	15
3	6.0	14	e9.0	e8.1	e8.5	14	43	87	77	18	28	14
4	6.2	14	e8.8	e7.9	7.6	13	49	89	71	20	17	14
5	7.1	14	e8.9	e8.0	8.1	13	44	81	64	13	17	13
6	6.5	13	e9.0	e8.0	9.3	14	44	75	56	10	12	13
7	6.6	12	e9.0	e7.9	9.8	16	39	72	56	11	12	12
8	7.4	11	9.1	e7.8	9.3	18	39	72	54	9.5	14	11
9	7.2	9.5	9.2	e8.1	8.3	20	36	74	48	9.3	19	11
10	7.2	12	9.0	7.9	e8.8	21	36	80	44	9.6	19	11
11	7.9	13	8.7	e8.0	e9.2	20	34	85	39	9.6	19	10
12	25	11	e8.7	e7.9	e9.3	19	32	93	38	9.5	34	9.7
13	18	e12	8.8	e8.2	e9.3	19	29	100	35	10	37	9.6
14	12	e13	e8.8	e7.8	9.5	20	29	110	33	18	59	11
15	9.9	e13	e8.7	e7.9	e9.4	20	31	122	31	11	81	11
16	9.2	e11	e8.8	e7.9	e9.4	21	35	129	29	11	77	12
17	8.4	e12	e9.0	e8.0	e9.5	20	45	138	26	13	60	11
18	8.3	e12	e10	e8.1	9.2	19	56	138	25	16	48	11
19	8.0	e12	e12	e8.0	9.3	18	61	141	23	15	39	10
20	7.9	e11	e11	e8.3	9.3	20	58	149	21	15	36	9.4
21	7.8	e10	e10	e8.2	9.8	25	55	140	19	16	32	8.3
22	8.1	10	e10	e8.1	11	34	50	126	18	14	29	9.8
23	14	10	e9.0	e8.1	12	41	44	122	19	14	26	9.1
24	25	e9.6	e8.6	e8.2	12	45	41	119	18	13	22	9.3
25	17	e9.4	e8.5	e8.1	12	48	41	114	19	16	19	8.9
26	13	e9.4	8.3	e7.8	12	54	46	111	21	18	18	8.5
27	12	9.3	e8.3	7.8	12	50	53	109	20	19	17	8.2
28	28	9.4	e8.4	7.9	13	43	59	108	17	15	17	8.0
29	31	e9.2	e8.4	7.9	---	37	64	106	17	13	19	8.3
30	24	9.1	e8.3	e7.7	---	33	71	100	16	13	19	8.3
31	19	---	e8.2	7.6	---	30	---	95	---	14	20	---
TOTAL	380.4	343.9	280.7	247.5	273.0	791	1332	3245	1125	423.5	913	323.4
MEAN	12.3	11.5	9.05	7.98	9.75	25.5	44.4	105	37.5	13.7	29.5	10.8
MAX	31	15	12	8.3	13	54	71	149	89	20	81	18
MIN	6.0	9.1	8.2	7.6	7.6	13	29	72	16	9.3	12	8.0
AC-FT	755	682	557	491	541	1570	2640	6440	2230	840	1810	641

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2001, BY WATER YEAR (WY)

MEAN	15.4	12.3	10.4	9.41	10.2	20.1	50.5	98.5	76.6	28.3	26.3	19.2
MAX	61.3	43.4	25.2	19.5	23.9	51.1	205	329	294	115	109	78.6
(WY)	1942	1942	1987	1987	1995	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1933 - 2001	
ANNUAL TOTAL	4881.6		9678.4			
ANNUAL MEAN	13.3		26.5		31.5	
HIGHEST ANNUAL MEAN					75.2	1941
LOWEST ANNUAL MEAN					8.93	1950
HIGHEST DAILY MEAN	52	Apr 29	149	May 20	623	Jun 9 1979
LOWEST DAILY MEAN	4.6	Sep 17	6.0	Oct 3	1.1	Dec 3 1950
ANNUAL SEVEN-DAY MINIMUM	5.0	Sep 14	6.4	Oct 1	2.2	Sep 11 1956
MAXIMUM PEAK FLOW			550	Aug 2	2420	Sep 24 1931
MAXIMUM PEAK STAGE			4.07	Aug 2	7.80	Sep 24 1931
INSTANTANEOUS LOW FLOW			5.3	Oct 5	.19	Mar 13 1954
ANNUAL RUNOFF (AC-FT)	9680		19200		22820	
10 PERCENT EXCEEDS	30		71		77	
50 PERCENT EXCEEDS	9.1		13		15	
90 PERCENT EXCEEDS	6.7		8.1		7.6	

e Estimated

08294200 NAMBE FALLS RESERVOIR NEAR NAMBE, NM

LOCATION.--Lat 35°50'46", long 105°54'17", in NE$^1/_4$SW$^1/_4$, sec.29, T.19 N., R.10 E., Santa Fe County, Hydrologic Unit 13020101, on Nambe Indian Reservation, 300 ft upstream from Nambe Falls, 2.6 mi upstream from Rio En Medio, 4.4 mi southeast of Nambe Pueblo, and 5.4 mi southeast of Nambe.

DRAINAGE AREA.--34.1 mi^2.

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 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.

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, May 20, 21, elevation 6,826.86 ft; minimum, 930 acre-ft, Oct. 4, elevation 6,802.81 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e935	e1052	1155	1310	1440	1560	1870	2030	2030	1880	1480	1220
2	e934	e1052	1162	e1310	1440	1560	1890	2030	2030	1860	1490	1190
3	e932	1050	1167	e1320	1440	1570	1910	2030	2030	1850	1450	1160
4	930	1053	1173	1320	1450	1570	1930	2030	2030	1830	1390	1130
5	e931	1053	1178	1330	1450	1580	1960	2030	e2030	1810	1330	1100
6	e930	1052	1184	1330	1460	1580	1970	2030	2030	1780	1280	1090
7	e932	1050	1189	1330	1460	1590	1980	2030	2030	1760	1230	1090
8	e933	1048	1195	1340	1460	1600	1980	2030	2030	1740	1220	1090
9	e934	1045	1201	1340	1470	1600	1980	2030	2030	1720	1230	1090
10	e937	1044	1207	1350	1470	1610	1980	2030	2030	1690	1240	1090
11	940	1044	1212	1350	1480	1610	1980	2030	2020	1670	1240	1090
12	e943	1042	1218	e1350	1480	1620	1980	2030	2030	1640	1260	1090
13	e947	1042	1224	1360	1480	1630	1980	2030	2030	1620	1270	1090
14	e951	1050	1228	e1360	1490	1630	1980	2030	2030	1600	1290	1090
15	e954	1058	1234	1370	1490	1640	1980	2030	2020	1580	1320	1090
16	e958	1064	1239	e1370	1500	1650	1980	2030	2020	1560	1340	1090
17	e966	1069	e1241	e1370	1500	1650	1990	2030	2020	1550	1350	1090
18	e971	1075	1245	e1380	1510	1660	2000	2040	2020	1530	1360	1090
19	e978	1081	1249	e1380	1510	1670	2020	2040	2020	1520	1370	1090
20	e982	1087	1254	e1390	1510	1680	2020	2040	2020	1500	1370	1090
21	e984	1094	1259	e1390	1520	1690	2020	2040	2020	e1490	1380	1090
22	e985	1101	1264	1390	1530	1700	2020	2030	2020	1480	1380	1090
23	e986	1109	1268	1400	1530	1710	2020	2030	2020	1460	1380	1090
24	e986	1115	1273	1400	1530	1730	2020	2030	2010	1460	1380	1080
25	e986	1121	1278	1410	1540	1750	2020	2030	1990	1460	1380	1080
26	e985	1127	1283	e1410	1540	1770	2020	2030	1980	1460	1380	1080
27	e985	1133	1288	1420	1550	1790	2020	2030	1960	1470	1360	1090
28	e985	1138	1292	1420	1560	1810	2030	2030	1940	1470	e1340	1090
29	e984	1144	1296	1420	---	1820	2030	2030	1920	1470	e1310	1090
30	e985	1150	1301	1430	---	1840	2030	2030	1900	1480	1280	1090
31	e985	---	1306	e1430	---	1850	---	2030	---	1480	1250	---
MAX	986	1150	1310	1430	1560	1850	2030	2040	2030	1880	1490	1220
MIN	930	1040	1160	1310	1440	1560	1870	2030	1900	1460	1220	1080
(+)	e6805.94	6808.76	6812.39	e6815.26	6817.86	6823.64	6826.66	6826.76	6824.50	6816.25	6811.04	6807.27
(++)	+106	+110	+160	+120	+130	+290	+180	0	-130	-420	-230	-160

CAL YR 2000 MAX 2020 MIN 926
WTR YR 2001 MAX 2040 MIN 930

e Estimated

(+) Elevation, in feet, at end of month.
(++) Change in contents, in acre-feet.

08294210 RIO NAMBE BELOW NAMBE FALLS DAM, NEAR NAMBE, NM

LOCATION.--Lat 35°50'46", long 105°54'17", in NE$^1/_4$SW$^1/_4$ sec.29, T.19 N., R.10 E., Santa Fe County, Hydrologic Unit 13020101, on Nambe Indian Reservation, in outlet conduits of Nambe Falls Dam, 300 ft upstream from Nambe Falls, 2.6 mi upstream from Rio En Medio, 4.4 mi southeast of Nambe Pueblo and 5.4 mi southeast of Nambe.

DRAINAGE AREA.--34.1 mi^2.

PERIOD OF RECORD.--January 1979 to current year.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Datum of gage is 6,840 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. Flow regulated by Nambe Falls Reservoir (station 08294200). Outlet conduits are one 6-in. and two 12-in. diameter pipes.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	4.5	1.2	1.3	1.1	1.3	1.5	25	38	19	4.2	21
2	2.6	7.0	1.2	1.3	1.1	1.3	1.5	28	36	19	4.2	21
3	2.5	7.1	1.3	1.3	1.1	1.3	1.5	28	34	19	29	21
4	3.1	7.2	1.2	1.3	1.2	1.3	1.5	30	32	19	35	20
5	3.1	7.2	1.2	1.3	1.2	1.3	1.5	28	29	18	33	20
6	3.1	7.2	1.2	1.3	1.2	1.3	6.1	26	27	18	29	9.5
7	3.1	7.2	1.3	1.3	1.2	1.4	11	26	27	18	32	5.0
8	3.1	7.0	1.3	1.3	1.2	1.4	11	26	25	18	12	5.0
9	3.1	6.9	1.3	1.3	1.2	1.4	11	28	24	18	3.0	4.9
10	3.1	6.4	1.3	1.3	1.2	1.4	11	29	22	18	3.1	5.0
11	3.0	5.7	1.3	1.3	1.2	1.4	11	32	21	18	3.2	5.0
12	3.1	5.6	1.3	1.3	1.2	1.4	11	34	18	18	3.2	5.0
13	3.0	3.4	1.3	1.3	1.2	1.4	11	37	18	18	3.2	5.1
14	3.0	1.3	1.3	1.3	1.2	1.4	11	40	17	18	3.2	5.1
15	3.0	1.2	1.3	1.3	1.2	1.4	11	39	16	17	3.2	5.1
16	3.0	1.3	1.2	1.3	1.2	1.4	11	41	14	15	3.2	5.0
17	3.0	1.3	1.3	1.2	1.2	1.4	11	42	13	14	4.5	5.0
18	3.0	1.3	1.2	1.2	1.2	1.4	11	44	13	14	6.5	5.0
19	3.0	1.3	1.2	1.2	1.2	1.4	12	43	13	14	6.4	5.0
20	5.4	1.3	1.2	1.2	1.2	1.4	16	55	12	14	6.8	4.6
21	9.3	1.3	1.3	1.2	1.2	1.4	18	58	12	14	7.5	4.4
22	9.3	1.3	1.3	1.2	1.2	1.4	18	52	12	14	7.4	4.4
23	9.3	1.3	1.3	1.2	1.2	1.4	16	48	11	12	7.4	4.4
24	9.3	1.3	1.3	1.2	1.3	1.4	16	47	14	7.4	7.5	4.4
25	9.1	1.3	1.3	1.2	1.3	1.5	15	45	20	6.0	7.5	4.5
26	8.9	1.2	1.3	1.2	1.3	1.4	17	45	20	3.9	7.5	4.1
27	8.9	1.2	1.3	1.2	1.3	1.5	18	47	18	3.9	16	2.9
28	5.5	1.2	1.3	1.2	1.3	1.5	18	47	18	3.9	21	2.9
29	2.9	1.2	1.3	1.2	---	1.5	21	46	18	3.9	21	2.9
30	2.9	1.3	1.3	1.2	---	1.5	24	42	19	3.9	21	2.9
31	2.9	---	1.3	1.1	---	1.5	---	40	---	3.9	21	---
TOTAL	140.5	104.0	39.4	38.7	33.8	43.4	354.6	1198	611	420.8	372.7	220.1
MEAN	4.53	3.47	1.27	1.25	1.21	1.40	11.8	38.6	20.4	13.6	12.0	7.34
MAX	9.3	7.2	1.3	1.3	1.3	1.5	24	58	38	19	35	21
MIN	2.5	1.2	1.2	1.1	1.1	1.3	1.5	25	11	3.9	3.0	2.9
AC-FT	279	206	78	77	67	86	703	2380	1210	835	739	437

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2001, BY WATER YEAR (WY)

MEAN	7.17	4.24	2.31	2.14	2.95	5.89	16.2	38.6	46.1	22.3	16.4	12.2
MAX	19.5	11.9	8.70	5.29	7.68	17.4	42.3	85.4	125	48.4	51.9	45.4
(WY)	1989	1987	1987	1992	1995	1985	1985	1985	1979	1983	1983	1988
MIN	2.83	1.10	.45	.45	.45	.49	1.60	9.89	8.76	5.35	2.86	1.47
(WY)	1991	1997	1980	1980	1980	1979	1981	1981	1996	2000	1989	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1979 - 2001	
ANNUAL TOTAL	2427.69		3577.0			
ANNUAL MEAN	6.63		9.80		14.2	
HIGHEST ANNUAL MEAN					25.7	1985
LOWEST ANNUAL MEAN					5.42	1981
HIGHEST DAILY MEAN	26	Jun 12	58	May 21	[a]312	Jun 9 1979
LOWEST DAILY MEAN	.59	Jan 4	1.1	Jan 31	.00	Dec 31 1993
ANNUAL SEVEN-DAY MINIMUM	.61	Jan 3	1.1	Jan 28	.21	Nov 12 1980
ANNUAL RUNOFF (AC-FT)	4820		7090		10310	
10 PERCENT EXCEEDS	19		28		39	
50 PERCENT EXCEEDS	3.1		3.9		7.7	
90 PERCENT EXCEEDS	1.3		1.2		.55	

a At site 1,100 ft downstream (maximum release and spill computed at Nambe Falls Dam, 250 ft^3/s, June 9, 1979).

08302500 TESUQUE CREEK ABOVE DIVERSIONS NEAR SANTA FE, NM

LOCATION.--Lat 35°44'25", long 105°53'51", in $SW^1/_4SE^1/_4$ sec.32, T.18 N., R.10 E., Santa Fe County, Hydrologic Unit 13020101, in Santa Fe National Forest, on left bank 0.30 mi from boundary, 1.0 mi southwest of Bishops Lodge, 1.1 mi to State Highway 22, and 10 miles northeast of Santa Fe.

DRAINAGE AREA.--12 mi^2,

PERIOD OF RECORD.--March 1936 to January 1952, May to October 1919 in report of State Engineer. October 1997 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,220 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for those estimated, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.53	.93	e1.0	e.80	e.80	e1.8	3.9	12	12	1.6	1.1	.97
2	.53	.87	e1.0	e.90	e.80	e1.7	4.2	15	10	1.6	1.1	.90
3	.52	.85	e1.1	e.80	e.80	e2.0	4.6	14	10	1.7	1.0	.92
4	.55	.83	e1.1	e.90	e.80	e2.4	4.8	9.2	8.5	1.6	1.1	.93
5	.59	.84	e1.1	e1.0	.87	2.7	4.8	9.3	7.0	1.5	1.1	.90
6	.57	.77	e1.1	e1.0	.91	2.6	7.1	9.3	5.5	1.4	1.0	.80
7	.62	.76	e1.4	e1.0	.93	2.8	7.5	10	5.0	1.4	1.0	.76
8	.83	.77	e1.1	e.90	.94	2.9	6.9	9.7	4.7	1.3	1.6	.75
9	.64	e.70	e1.1	e.90	1.0	3.1	5.6	9.0	4.2	1.2	2.0	.69
10	.64	e.80	e1.0	e1.0	e.90	3.3	5.4	9.6	3.8	1.2	2.0	.67
11	.74	e.90	e1.0	e.90	e1.0	4.1	5.9	10	3.5	1.2	2.0	.67
12	2.2	e.80	e.80	e.90	1.0	4.1	5.7	11	3.2	1.1	1.6	.62
13	.86	e.60	e1.0	e1.0	.94	4.0	5.7	13	2.9	1.1	1.4	.65
14	.63	e.60	e.80	e.90	.94	4.2	5.7	15	2.8	1.5	3.5	.69
15	.60	e.90	e.90	e.80	e.90	e3.9	6.0	17	2.7	1.1	2.5	.67
16	.58	e.80	e.70	e.90	e.90	e3.6	6.4	19	2.6	1.0	2.1	.71
17	.58	e.80	e.60	e.70	e1.0	2.8	7.3	21	2.4	1.0	1.8	.72
18	.57	e.70	e.50	e.50	.95	2.9	9.0	22	2.3	1.1	1.6	.60
19	.57	e.80	e.60	e.50	.95	2.8	12	20	2.2	1.1	1.4	.54
20	.56	e.90	e.50	e.60	.99	2.9	12	20	2.2	1.1	1.3	.53
21	.57	e.90	e.90	e.80	1.0	3.1	12	17	2.1	1.2	1.3	.55
22	.59	e1.0	e1.0	e.90	1.1	3.5	11	18	2.0	1.1	1.3	.57
23	1.4	e1.0	e1.0	e.90	1.6	3.7	10	18	1.9	1.1	1.2	.56
24	1.6	e.90	e1.0	e.90	2.4	4.0	7.9	18	1.8	1.1	1.1	.55
25	.83	e.90	e1.5	e1.0	e2.3	4.4	6.8	16	1.8	1.1	1.1	.54
26	.75	e.90	e1.1	e1.0	2.2	4.8	7.3	14	1.9	1.1	1.0	.52
27	.72	e.90	e.60	e.90	2.3	4.8	7.7	14	1.8	1.2	.95	.50
28	2.4	e.90	e.50	e1.0	2.1	4.6	8.6	15	1.7	1.0	1.0	.50
29	2.0	e.90	e.50	e.90	---	4.2	8.9	14	1.7	1.0	1.0	.49
30	1.5	e1.0	e.60	e.80	---	4.0	10	13	1.7	.99	1.2	.54
31	1.1	---	e.80	e.80	---	3.8	---	13	---	1.0	1.1	---
TOTAL	27.37	25.22	27.90	26.80	33.32	105.5	220.7	445.1	115.9	37.69	44.45	20.01
MEAN	.88	.84	.90	.86	1.19	3.40	7.36	14.4	3.86	1.22	1.43	.67
MAX	2.4	1.0	1.5	1.0	2.4	4.8	12	22	12	1.7	3.5	.97
MIN	.52	.60	.50	.50	.80	1.7	3.9	9.0	1.7	.99	.95	.49
AC-FT	54	50	55	53	66	209	438	883	230	75	88	40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2001, BY WATER YEAR (WY)

MEAN	1.83	1.41	1.03	.97	1.05	2.10	5.89	10.2	6.31	2.28	2.09	1.46
MAX	10.3	6.60	2.65	2.02	1.98	4.32	26.4	37.0	27.0	7.68	7.34	4.43
(WY)	1942	1942	1942	1942	1942	1940	1942	1941	1941	1941	1999	1941
MIN	.38	.39	.35	.35	.49	.42	.75	.81	.54	.29	.32	.36
(WY)	1951	1951	1951	1951	1951	1951	1951	1950	1950	1951	1950	1950

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1936 - 2001	
ANNUAL TOTAL	511.25		1129.96			
ANNUAL MEAN	1.40		3.10		3.08	
HIGHEST ANNUAL MEAN					8.14	1941
LOWEST ANNUAL MEAN					.74	1950
HIGHEST DAILY MEAN	12	Aug 19	22	May 18	72	Apr 23 1942
LOWEST DAILY MEAN	.27	Aug 16	.49	Sep 29	.00	Aug 25 1950
ANNUAL SEVEN-DAY MINIMUM	.33	Aug 10	.52	Sep 24	.09	Jul 6 1951
MAXIMUM PEAK FLOW			27	May 19	[a]425	Jul 19 1938
MAXIMUM PEAK STAGE			4.58	May 19	4.75	May 24 1999
INSTANTANEOUS LOW FLOW					.21	Aug 16 2000
ANNUAL RUNOFF (AC-FT)	1010		2240		2230	
10 PERCENT EXCEEDS	3.1		9.4		7.7	
50 PERCENT EXCEEDS	.95		1.1		1.3	
90 PERCENT EXCEEDS	.55		.60		.70	

e Estimated
a Gage height 4.30 ft, from floodmarks, from rating curve extended above 10 ft^3/s, on basis of slope-area measurement at gage height 4.0 ft, at different datum.

08305030 LITTLE TESUQUE CREEK AT BISHOPS LODGE NEAR SANTA FE, NM

LOCATION.--Lat 35°43'52", long 105°54'39", in NW¼ ,SW¼ sec. 5, T. 17 N., R. 10 E., Santa Fe County, Hydrologic Unit 13020201, on right bank 100 ft downstream of entrance to Bishops Lodge, and 9.0 mi northeast of Santa Fe.

DRAINAGE AREA.--7.61 mi^2 approximately.

PERIOD OF RECORD.--July 1999 to current year.

GAGE.--Water-stage recorder. Concrete low-flow control. Elevation of gage is 7,100 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for those estimated, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge 34 ft^3/s, Aug. 2, 1999, gage height 4.51; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	1.2	.31	e.00	e.00	.36	2.4	1.1	.44	.03	.00	.00
2	.00	1.1	.30	e.00	e.00	.35	2.8	1.1	.38	.00	.00	.06
3	.00	1.1	.29	e.00	e.00	.34	3.2	1.1	.30	.00	.00	.00
4	.00	1.1	.27	e.00	e.00	.34	3.3	1.3	.28	.01	.00	.00
5	.00	1.2	.29	e.00	e.00	.35	3.2	1.4	.24	.00	.00	.00
6	.00	1.1	.28	e.00	e.00	.37	6.5	1.2	.20	.00	.00	.00
7	.01	1.1	e.25	e.00	e.00	.44	7.2	1.1	.18	.00	.00	.00
8	.00	1.1	.23	e.00	e.00	.51	6.5	1.0	.18	.00	.02	.00
9	.00	1.0	.23	e.00	e.00	.56	4.4	.94	.10	.00	.01	.00
10	.00	1.0	.25	e.00	e.00	.66	e3.4	.99	.06	.00	.00	.00
11	.01	.99	.24	e.00	e.00	.68	e3.3	.97	.04	.00	.00	.00
12	.10	.94	e.24	e.00	e.02	.59	e3.2	.96	.03	.00	.00	.00
13	.00	.92	.24	e.00	e.04	.62	e3.1	.98	.02	.05	.00	.00
14	.00	.93	e.24	e.00	e.06	.63	e3.1	1.1	.02	.00	.12	.00
15	.00	.81	e.24	e.00	e.08	.65	e2.9	1.1	.01	.00	.00	.00
16	.00	.76	e.24	e.00	e.10	2.3	e2.7	1.2	.00	.00	.03	.00
17	.01	.74	e.24	e.00	.14	1.3	e2.5	1.5	.00	.00	.00	.00
18	.01	.71	e.10	e.00	.24	1.3	e2.3	2.2	.00	.00	.00	.00
19	.00	.71	e.00	e.00	.30	.83	2.1	3.0	.00	.00	.00	.00
20	.00	.81	e.00	e.00	.31	.67	1.9	2.5	.00	.00	.00	.00
21	.00	.57	e.00	e.00	.37	.69	1.5	2.0	.00	.00	.00	.00
22	.00	.54	e.00	e.00	.49	2.9	1.5	1.8	.00	.00	.00	.00
23	.16	.56	e.00	e.00	.28	11	1.3	1.5	.00	.00	.00	.00
24	.07	.51	e.00	e.00	.30	16	1.1	1.1	.00	.00	.00	.00
25	.00	.42	e.00	e.00	.29	17	1.0	1.0	.00	.00	.00	.00
26	.00	.51	e.00	e.00	.30	5.1	1.0	.87	.00	.00	.00	.00
27	.00	.35	e.00	e.00	.33	3.2	1.1	.75	.00	.00	.00	.00
28	6.3	.32	e.00	e.00	.36	5.5	1.1	.66	.00	.00	.00	.00
29	4.9	.31	e.00	e.00	---	4.5	1.1	.60	.00	.00	.00	.00
30	1.8	.31	e.00	e.00	---	2.6	1.1	.55	.04	.00	.00	.00
31	1.4	---	e.00	e.00	---	2.5	---	.49	---	.00	.00	---
TOTAL	14.77	23.72	4.48	0.00	4.01	84.84	81.8	38.06	2.52	0.09	0.18	0.06
MEAN	.48	.79	.14	.000	.14	2.74	2.73	1.23	.084	.003	.006	.002
MAX	6.3	1.2	.31	.00	.49	17	7.2	3.0	.44	.05	.12	.06
MIN	.00	.31	.00	.00	.00	.34	1.0	.49	.00	.00	.00	.00
AC-FT	29	47	8.9	.00	8.0	168	162	75	5.0	.2	.4	.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	.25	.40	.073	.000	.070	1.37	1.36	.61	.045	.010	.79	.067
MAX	.48	.79	.14	.000	.14	2.74	2.73	1.23	.084	.017	2.26	.18
(WY)	2001	2001	2001	2000	2001	2001	2001	2001	2001	2000	1999	1999
MIN	.015	.005	.001	.000	.000	.001	.003	.002	.007	.003	.006	.002
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2001	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	48.03		254.53			
ANNUAL MEAN	.13		.70		.36	
HIGHEST ANNUAL MEAN					.70	2001
LOWEST ANNUAL MEAN					.016	2000
HIGHEST DAILY MEAN	6.3	Oct 28	17	Mar 25	17	Mar 25 2001
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Jul 28 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Dec 19	.00	Oct 9 1999
MAXIMUM PEAK FLOW			38	Mar 26	38	Mar 26 2001
MAXIMUM PEAK STAGE			4.54	Mar 26	4.54	Mar 26 2001
ANNUAL RUNOFF (AC-FT)	95		505		258	
10 PERCENT EXCEEDS	.31		1.9		1.1	
50 PERCENT EXCEEDS	.00		.02		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated

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

LOCATION.--Lat 35°52'29", long 106°08'30", in $SW^1/_4SW^1/_4$ 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 mi^2, approximately, including 2,940 mi^2 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 with satellite telemetry. 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 fair. 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.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	676	512	555	532	541	722	1070	1830	3190	1100	1140	1200
2	684	475	568	531	529	692	1060	2040	3070	1120	913	1190
3	715	521	571	529	551	659	1110	2110	2740	1240	914	1300
4	703	533	549	529	563	659	1200	2200	2740	1180	1040	1300
5	714	525	528	546	566	660	1240	2680	2790	1140	1060	1160
6	721	485	532	549	570	659	1210	2310	2850	1160	1040	1160
7	694	419	539	549	579	673	1170	2230	2690	1260	1040	1120
8	706	440	565	540	598	701	1060	2000	2440	1350	1270	1100
9	445	415	562	532	599	724	955	1820	2370	1490	1120	1090
10	383	402	550	565	583	740	838	1750	2490	1480	886	1170
11	368	416	588	579	567	760	816	1940	2690	1230	871	1210
12	598	425	578	550	585	774	789	2300	2630	1170	838	e1180
13	432	440	543	576	606	761	787	2430	2360	1220	1040	e1140
14	346	413	528	556	620	782	758	2620	2140	1530	1010	1090
15	344	398	519	539	603	760	729	2940	1990	1370	1080	1010
16	344	432	491	567	591	766	721	3300	1840	1110	857	1000
17	362	414	480	563	583	783	865	3700	1620	1040	691	976
18	363	407	463	508	686	769	1080	3680	1420	1170	588	868
19	349	407	416	471	635	759	1190	3460	1190	1130	719	913
20	321	422	417	514	636	762	1540	3250	1100	e1140	863	965
21	329	444	487	514	639	772	1690	3660	1100	e1260	851	e940
22	323	482	500	513	641	813	1710	3600	1120	e1310	973	927
23	347	518	511	543	654	847	1450	3110	1350	e1390	1060	911
24	892	500	494	540	740	889	1160	2990	1530	e1350	1040	905
25	740	470	526	550	713	955	1020	2700	1410	1350	940	977
26	684	496	542	537	694	1020	1000	2600	1270	1360	920	952
27	540	509	536	560	710	1120	1090	2890	1170	1510	994	966
28	1310	540	511	573	733	1200	1200	3190	1140	982	1060	940
29	604	539	554	564	---	1250	1600	3340	1130	904	1280	951
30	553	558	546	551	---	1190	1800	3290	1150	1190	1110	959
31	521	---	539	552	---	1100	---	3220	---	1160	1090	---
TOTAL	17111	13957	16288	16822	17315	25721	33908	85180	58720	38396	30298	31570
MEAN	552	465	525	543	618	830	1130	2748	1957	1239	977	1052
MAX	1310	558	588	579	740	1250	1800	3700	3190	1530	1280	1300
MIN	321	398	416	471	529	659	721	1750	1100	904	588	868
AC-FT	33940	27680	32310	33370	34340	51020	67260	169000	116500	76160	60100	62620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2001, BY WATER YEAR (WY)

MEAN	830	981	932	813	933	1371	2224	3666	3252	1581	1013	919
MAX	2225	2034	1959	1757	2641	3127	6412	8390	7914	4548	2132	1553
(WY)	1998	1987	1976	1986	1987	1987	1985	1985	1979	1995	1999	1999
MIN	361	401	450	436	500	612	489	433	470	394	391	263
(WY)	1975	1978	1975	1977	1978	1977	1977	1972	1972	1972	1972	1974

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1971 - 2001	
ANNUAL TOTAL	370397		385286			
ANNUAL MEAN	1012		1056		1544	
HIGHEST ANNUAL MEAN					2764	1987
LOWEST ANNUAL MEAN					602	1977
HIGHEST DAILY MEAN	1950	Jul 30	3700	May 17	12000	May 11 1985
LOWEST DAILY MEAN	321	Oct 20	321	Oct 20	195	Aug 4 1977
ANNUAL SEVEN-DAY MINIMUM	342	Oct 16	342	Oct 16	229	Sep 11 1971
MAXIMUM PEAK FLOW			4550	Aug 8	24400	May 23 1920
MAXIMUM PEAK STAGE			6.59	Aug 8	14.50	Sep 29 1904
INSTANTANEOUS LOW FLOW			308	Oct 20	195	Aug 4 1977
ANNUAL RUNOFF (AC-FT)	734700		764200		1119000	
10 PERCENT EXCEEDS	1570		2210		3560	
50 PERCENT EXCEEDS	999		847		1010	
90 PERCENT EXCEEDS	484		481		503	

e Estimated

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.--
SUSPENDED-SEDIMENT DISCHARGE: October 1947 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATION: Maximum daily mean, 51,800 mg/L, Oct. 31, 1998; minimum daily mean, 11 mg/L, July 27, 1963 and Feb. 7, 1974.
SEDIMENT LOAD: Maximum daily, 386,000 tons, July 6, 1995; minimum daily, 3 tons, July 27, 1963.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATION: Maximum daily mean, 18,100 mg/L, July 27; minimum daily mean, 90 mg/L, Jan. 31.
SEDIMENT LOAD: Maximum daily, 102,000 tons, May 30; minimum daily, 134 tons, Jan. 31 and Feb. 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
NOV													
01...	1435	9.5	25.5	620	554	--	396	8.8	95	8.2	--	--	--
DEC													
01...	1110	2.5	6.0	633	554	--	336	11.8	104	8.4	--	--	--
07...	1000	1.0	8.0	628	539	--	335	12.2	104	8.5	.0	144	<.010
JAN													
16...	1200	3.2	4.0	617	580	29	329	8.1	75	8.4	--	--	--
FEB													
08...	1000	5.9	10.5	614	595	4.5	295	11.0	110	9.0	--	--	--
MAR													
21...	1300	13.0	13.5	620	781	25	302	9.9	116	8.5	--	--	--
28...	1145	7.5	16.0	618	1240	72	261	9.8	101	7.8	.0	105	.025
APR													
10...	1040	9.0	18.0	618	825	35	275	9.6	103	8.0	.0	108	.012
MAY													
03...	1117	14.0	21.0	621	2280	90	194	8.4	100	7.9	.0	78	<.010
15...	1145	18.0	28.0	627	3130	86	193	7.7	99	8.0	.0	76	.012
JUN													
06...	1100	24.0	28.5	629	2820	26	187	6.9	100	7.8	.0	77	<.010
22...	1100	21.0	30.5	629	1140	14	275	8.0	109	8.4	2	91	<.010
JUL													
20...	1010	20.0	26.0	630	1110	23	300	7.7	103	8.3	.0	109	.029
AUG													
02...	1105	20.0	26.5	635	910	50	349	7.8	104	8.1	.0	121	--
SEP													
12...	1130	16.0	30.0	634	1210	100	292	8.1	99	8.1	.0	100	--

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CYANIDE TOTAL (MG/L AS CN) (00720)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
NOV													
01...	--	--	--	--	--	--	--	--	4.7	2.0	--	150	44.5
DEC													
01...	--	--	--	--	--	--	--	--	3.5	2.0	--	120	35.4
07...	.06	<.010	.35	.21	.100	.040	<.020	.020	3.1	1.6	<.01	120	35.7
JAN													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	.07	<.010	.24	1.3	.220	.440	<.020	.020	8.9	2.8	<.01	90	27.5
APR													
10...	.03	<.010	.23	.58	.140	.150	.020	.040	--	3.8	<.01	100	31.1
MAY													
03...	.04	<.010	.29	1.2	.070	.440	<.020	<.010	5.1	4.5	<.01	72	22.4
15...	.06	<.010	.37	1.4	.100	.560	.020	.020	--	4.4	<.01	69	21.5
JUN													
06...	.05	<.010	.26	.62	.060	.230	.040	.030	5.6	4.2	<.01	66	20.1
22...	.03	<.010	.23	.48	<.020	.110	<.020	.020	5.6	3.0	<.01	95	28.8
JUL													
20...	<.01	<.010	.33	.55	<.020	.080	<.020	<.010	6.9	2.5	<.01	110	34.0
AUG													
02...	--	--	--	--	--	--	--	--	5.0	2.7	<.01	130	39.9
SEP													
12...	--	--	--	--	--	--	--	--	5.6	3.6	<.01	110	34.5

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)
NOV													
01...	8.55	25.9	.9	2.76	8.7	52.5	.5	21.2	2.0	91.7	<.06	48	E.02
DEC													
01...	6.86	23.2	.9	2.84	7.5	42.2	.5	23.5	2.1	57.1	<.06	60	E.03
07...	6.99	24.2	1.0	2.87	8.0	41.8	.5	22.7	2.0	56.9	<.06	45	E.02
JAN													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	5.09	14.3	.7	2.81	6.1	30.7	.3	21.2	E1.9	49.9	<.06	29	<.04
APR													
10...	5.71	15.2	.7	2.67	6.0	32.8	.4	20.7	E1.4	47.7	<.06	32	<.04
MAY													
03...	3.93	10.6	.5	2.13	4.3	23.7	.2	16.1	E1.2	39.2	<.06	19	<.04
15...	3.74	10.5	.6	2.20	3.9	23.9	.3	17.6	E1.4	38.2	<.06	24	<.04
JUN													
06...	3.74	10.3	.6	2.45	2.8	21.2	.3	18.2	E1.4	28.8	<.06	20	<.04
22...	5.72	17.0	.8	2.79	5.2	41.4	.4	19.5	E1.7	40.9	<.06	29	<.04
JUL													
20...	6.83	16.8	.7	2.44	4.5	49.2	.3	17.5	2.2	54.8	E.04	30	<.04
AUG													
02...	7.87	17.8	.7	2.33	5.0	60.3	.3	17.6	E1.8	74.2	<.06	29	<.04
SEP													
12...	6.35	14.0	.6	1.84	4.9	52.9	.2	15.4	E1.4	65.3	<.06	22	<.04

DATE	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)
NOV													
01...	<.8	.15	.8	<10	<.08	5.5	6.6	.26	<1.0	1	.09	2	<2.4
DEC													
01...	E.7	.13	1.0	<10	.08	5.6	5.7	.46	<1.0	5	.06	3	<2.4
07...	<.8	.13	.7	<10	E.07	6.8	5.9	1.16	<1.0	<1	.08	4	<2.4
JAN													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<.8	.14	.8	20	.12	8.2	3.4	.45	<1.0	3	<.05	3	<2.4
APR													
10...	<.8	.14	.9	10	.08	5.1	3.4	.84	<1.0	1	.11	5	<2.4
MAY													
03...	<.8	.11	1.1	20	E.07	2.0	2.4	.59	<1.0	2	.07	10	<2.4
15...	<.8	.11	2.5	20	.08	1.7	2.6	4.02	<1.0	<1	.07	9	<2.4
JUN													
06...	E.4	.07	1.2	30	.17	2.4	2.3	.47	<1.0	2	.08	12	<2.0
22...	E.4	.10	1.3	M	<.08	1.2	3.9	.61	<1.0	1	.08	9	<2.0
JUL													
20...	E.5	.09	1.3	<10	<.08	2.2	4.1	<.06	<1.0	<1	.11	5	<2.0
AUG													
02...	<.8	.10	1.1	<10	<.08	.9	4.1	<.06	<1.0	2	.12	4	<2.0
SEP													
12...	<.8	.09	1.6	M	<.08	1.4	2.8	.07	<1.0	<1	.10	2	<2.0

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)
NOV													
01...	--	--	3.95	140	E68	400	--	--	246	--	--	--	--
DEC													
01...	--	--	3.01	E9	42	42	--	--	214	--	--	--	--
07...	<2.6	.06	3.29	E6	E10	20	118	--	214	--	<.14	.74	.02
JAN													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	<2.6	.06	2.37	120	120	E79	86	97	161	46	.01	.52	.02
APR													
10...	<2.6	.05	2.48	12	E37	E60	89	35	169	7	<.01	.54	.01
MAY													
03...	<2.6	.05	1.30	110	180	200	64	--	122	13	.01	.32	.02
15...	<2.6	.05	1.23	E92	E200	210	62	100	122	34	.01	.31	.02
JUN													
06...	<3.0	.03	.89	40	E72	91	63	26	117	3	.01	.14	.01
22...	<3.0	.04	1.39	40	130	73	78	13	168	34	--	.33	.01
JUL													
20...	<3.0	.05	1.56	76	100	90	89	26	185	39	<.01	.26	.02
AUG													
02...	E.5	.06	1.83	160	E90	200	99	61	211	46	<.01	.43	.02
SEP													
12...	<3.0	.06	1.12	170	150	220	82	130	179	28	<.01	.27	.02

DATE	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)
NOV			
01...	--	135	--
DEC			
01...	974	120	--
07...	--	122	--
JAN			
16...	1460	--	--
FEB			
08...	114	--	--
MAR			
21...	136	--	--
28...	826	97	62
APR			
10...	1280	97	44
MAY			
03...	2020	73	100
15...	5020	70	--
JUN			
06...	2650	66	23
22...	140	85	--
JUL			
20...	155	94	--
AUG			
02...	268	105	--
SEP			
12...	613	88	--

DATE	TIME	NITRO-GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	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, SEDIMT, BED MA-TERIAL 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)
DEC												
07...	1000	56	360	<.1	4.9	2.8	4	5500	5.3	210	<.01	20
MAY												
03...	1117	.3	430	--	--	--	--	--	--	--	--	--

Remark codes used in this report:
< -- Less than
E -- Estimated value

Null value remark codes used in this report:
M -- Presence verified, not quantified

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

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1360	2480	404	569	661	991	160	231	99	144	313	613
2	1420	2670	233	304	578	898	154	222	100	145	268	501
3	1330	2570	438	652	883	1370	155	223	112	167	201	359
4	1430	2710	496	733	471	706	144	206	153	233	184	327
5	1970	3800	577	841	365	524	188	278	173	266	143	255
6	1550	3040	365	496	372	538	177	264	175	269	192	342
7	938	1770	254	287	371	541	172	256	176	276	190	345
8	1010	1930	394	469	159	243	178	261	132	214	329	624
9	300	376	220	247	292	445	167	241	108	175	343	671
10	309	320	202	220	177	268	173	265	89	140	494	988
11	251	251	274	314	348	554	177	278	87	134	488	1000
12	3300	6660	351	407	286	449	191	285	113	180	533	1120
13	1760	2140	361	430	217	319	205	320	123	201	678	1390
14	394	373	281	315	204	291	252	381	125	209	642	1360
15	269	250	208	225	183	258	161	237	133	217	298	615
16	249	232	296	347	167	223	208	318	115	183	248	513
17	440	443	298	335	146	192	180	274	127	202	384	815
18	336	334	366	406	181	229	151	209	690	1330	446	927
19	443	437	436	480	192	216	165	213	1200	2050	408	837
20	392	342	424	486	177	200	203	286	364	627	561	1160
21	521	469	607	736	292	385	200	281	252	437	206	428
22	411	359	523	683	246	335	184	258	320	555	195	429
23	456	455	411	578	232	320	142	209	253	458	380	871
24	1450	3650	467	631	226	305	132	193	618	1250	515	1240
25	855	1710	545	694	222	316	150	223	508	978	874	2260
26	689	1280	647	874	201	295	123	179	361	675	881	2430
27	447	676	1050	1440	205	298	101	153	335	643	1090	3290
28	6140	25100	1040	1520	215	300	105	162	273	541	967	3150
29	3150	5260	1510	2200	200	301	134	205	---	---	1090	3670
30	381	569	1700	2560	181	267	114	171	---	---	1010	3260
31	236	332	---	---	187	273	90	134	---	---	354	1060
TOTAL	---	72988	---	20479	---	12850	---	7416	---	12899	---	36850

DAY	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	267	769	5840	29200	2390	20600	1510	4510	2500	7690	1710	5490
2	262	748	4960	27700	881	7440	1690	5790	2160	5380	1810	5800
3	456	1390	2680	15200	423	3150	3340	11200	1780	4360	5510	19400
4	945	3120	2790	17000	534	3950	1870	5970	4100	11600	6460	22800
5	1910	6410	4410	32000	473	3570	1970	6100	2420	7060	3830	12000
6	1400	4590	3450	21500	795	6120	2300	7300	2250	6360	3920	12400
7	1360	4340	3240	19600	2280	16500	3590	12300	3320	9370	2010	6160
8	1160	3330	2500	13600	2560	16900	4970	18100	3650	14000	2780	8270
9	580	1510	2490	12300	3560	22800	6710	27200	3050	9380	950	2800
10	1200	2710	2760	13100	806	5490	8000	32000	1330	3190	2720	8630
11	736	1620	4030	21400	3180	23200	1720	5810	582	1370	3080	10100
12	283	605	5300	33100	3270	23300	2430	7690	753	1710	894	e2850
13	824	1750	5450	35800	560	3580	3380	11400	1460	4160	494	e1520
14	730	1500	5830	41300	987	5690	13200	55000	4400	13500	543	1610
15	337	663	6830	54600	552	3000	11100	41700	13800	44700	493	1350
16	302	591	7280	64900	322	1610	2590	7920	7410	17500	582	1580
17	675	1610	7260	72700	2820	12300	466	1310	7130	13800	614	1620
18	1490	4370	7080	70400	5040	19200	1050	3330	4660	7420	594	1390
19	2240	7590	6260	58600	5750	18600	595	1820	2550	4910	586	1450
20	2860	11900	5490	48200	2680	7990	769	e2370	4790	11200	707	1840
21	4090	18800	5650	56100	1440	4280	1320	e4490	7260	16700	749	e1900
22	3020	14000	5620	54600	300	907	2380	e8420	6220	16400	1170	2950
23	3900	15400	5820	48800	1480	5530	2520	e9460	3530	10200	1690	4170
24	2580	8140	6790	54800	1540	6390	868	e3160	9190	26000	742	1820
25	663	1840	6670	48800	682	2610	3140	11500	2150	5450	575	1520
26	578	1610	2850	20100	253	869	2850	12300	982	2440	857	2210
27	1360	4150	6150	48700	403	1280	18100	73400	4050	10900	2110	5510
28	2380	7870	5800	50200	375	1150	5530	15000	3630	10400	1540	3920
29	2860	12500	8390	75700	724	2230	2730	6670	9150	31800	1930	4990
30	4390	21500	11400	102000	1010	3140	5520	17900	2800	8360	1860	4820
31	---	---	4030	35000	---	---	6550	20700	3680	10900	---	---
TOTAL	---	166926	---	1297000	---	253376	---	451820	---	348210	---	162870
YEAR		2843684										

e Estimated

08313268 RIO GRANDE NEAR WHITE ROCK, NM

LOCATION.--Lat 35°59'29", long 106°08'30", Santa Fe County, Hydrologic Unit 13020201, in Caja Del Rio Grant, on left bank 0.25 mi downstream of Water Canyon, 3.2 mi south of White Rock, and at mile 1,605.1.

PERIOD OF RECORD.--June 2000 to September 2001.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 5,390.0 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for those above 1,900 ft^3/s, and those estimated, which are poor. 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 sine May 1971. Diversions upstream from station for irrigation of about 620,000 acres in Colorado and 75,000 acres in New Mexico.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,890 ft^3/s, May 17, 2001, gage height, 13.64 ft; minimum daily discharge, 358 ft^3/s, Oct. 20, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,890 ft^3/s, May 17, gage height, 13.64 ft; minimum daily discharge, 358 ft^3/s, Oct. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	e1400	1600	1230
2	---	---	---	---	---	---	---	---	---	e1270	1260	1350
3	---	---	---	---	---	---	---	---	---	e1360	1310	1370
4	---	---	---	---	---	---	---	---	---	e1460	1560	1360
5	---	---	---	---	---	---	---	---	---	e1510	1650	1430
6	---	---	---	---	---	---	---	---	---	e1500	1660	1450
7	---	---	---	---	---	---	---	---	---	e1500	1820	1430
8	---	---	---	---	---	---	---	---	---	e1610	1790	1660
9	---	---	---	---	---	---	---	---	---	e1620	1610	1700
10	---	---	---	---	---	---	---	---	---	e1630	1530	1510
11	---	---	---	---	---	---	---	---	---	e1590	1540	1470
12	---	---	---	---	---	---	---	---	---	e1590	1600	1340
13	---	---	---	---	---	---	---	---	---	e1750	1590	1330
14	---	---	---	---	---	---	---	---	---	e1710	1480	1310
15	---	---	---	---	---	---	---	---	---	e1490	1330	1310
16	---	---	---	---	---	---	---	---	---	e1540	1260	1370
17	---	---	---	---	---	---	---	---	---	e1540	1380	1360
18	---	---	---	---	---	---	---	---	---	e1430	1710	1380
19	---	---	---	---	---	---	---	---	---	e1140	1900	1280
20	---	---	---	---	---	---	---	---	---	e1180	1210	1230
21	---	---	---	---	---	---	---	---	---	e1500	1080	1120
22	---	---	---	---	---	---	---	---	---	1960	1150	1130
23	---	---	---	---	---	---	---	---	---	1920	1350	1040
24	---	---	---	---	---	---	---	---	e1730	1680	1360	1040
25	---	---	---	---	---	---	---	---	e1680	1820	1470	1040
26	---	---	---	---	---	---	---	---	e1650	1880	1480	949
27	---	---	---	---	---	---	---	---	e1750	2040	1440	869
28	---	---	---	---	---	---	---	---	e1890	2020	1400	808
29	---	---	---	---	---	---	---	---	e1650	1780	1420	781
30	---	---	---	---	---	---	---	---	e1640	2160	e1100	790
31	---	---	---	---	---	---	---	---	---	1930	e1150	---
TOTAL	---	---	---	---	---	---	---	---	---	50510	45190	37437
MEAN	---	---	---	---	---	---	---	---	---	1629	1458	1248
MAX	---	---	---	---	---	---	---	---	---	2160	1900	1700
MIN	---	---	---	---	---	---	---	---	---	1140	1080	781
AC-FT	---	---	---	---	---	---	---	---	---	100200	89630	74260

e Estimated

08313268 RIO GRANDE NEAR WHITE ROCK, NM--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	793	490	565	519	523	716	1130	2100	3140	1330	1330	e1300
2	804	478	574	514	512	686	1110	2230	3060	1330	965	e1300
3	853	500	574	516	535	649	1150	2290	2790	1420	992	e1380
4	839	527	546	514	547	640	1290	2330	2740	1280	1160	e1410
5	855	521	538	526	553	643	1360	2660	2790	1230	1210	e1260
6	861	502	524	533	552	649	1320	2440	2830	1260	1180	e1280
7	850	442	527	527	563	659	1300	2380	2750	1400	1180	e1250
8	874	434	542	525	580	685	1120	2240	2580	1490	1420	e1210
9	639	421	545	522	580	704	989	2130	2520	1620	1500	e1200
10	502	410	533	533	571	730	833	2070	2530	1640	985	e1280
11	489	417	576	547	557	748	805	2190	2660	1390	996	e1320
12	681	432	563	531	567	767	765	2410	2600	1280	885	e1320
13	524	450	526	543	590	753	768	2500	2460	1330	1160	e1250
14	404	428	519	534	607	768	735	2650	2300	1660	1090	e1190
15	385	409	515	517	595	751	703	2890	2210	1570	1220	e1120
16	383	446	487	539	577	754	692	3170	2110	1220	884	e1100
17	387	437	474	541	568	767	820	3510	1980	1100	778	e1020
18	397	427	472	501	659	761	1080	3590	1840	1290	580	e980
19	375	431	438	467	634	747	1220	3410	1540	1250	702	e935
20	358	437	432	501	631	746	1680	3280	1360	1190	954	1050
21	363	460	481	500	627	748	1880	3570	1320	1330	964	1110
22	361	493	495	500	629	794	1870	3540	1330	1380	1050	1030
23	391	530	506	524	641	841	1680	3130	1630	1330	1240	1020
24	864	525	493	515	724	890	1290	3000	1850	1470	1260	1000
25	697	509	524	533	715	970	1070	2790	1750	1610	1050	1160
26	653	513	533	520	690	1040	1030	2710	1610	1570	1040	1150
27	537	526	526	535	696	1180	1160	2870	1440	1730	1270	1180
28	1240	554	498	547	726	1330	1350	3070	1400	1070	1280	1160
29	566	560	532	545	---	1410	1820	3170	1380	947	1730	1160
30	511	575	523	535	---	1330	2050	3170	1410	1380	1670	1170
31	490	---	521	529	---	1200	---	3130	---	1350	1540	---
TOTAL	18926	14284	16102	16233	16949	26056	36070	86620	63910	42447	35265	35295
MEAN	611	476	519	524	605	841	1202	2794	2130	1369	1138	1176
MAX	1240	575	576	547	726	1410	2050	3590	3140	1730	1730	1410
MIN	358	409	432	467	512	640	692	2070	1320	947	580	935
AC-FT	37540	28330	31940	32200	33620	51680	71540	171800	126800	84190	69950	70010

WTR YR 2001 TOTAL 408157 MEAN 1118 MAX 3590 MIN 358 AC-FT 809600

e Estimated

08315480 SANTA FE RIVER ABOVE McCLURE RESERVOIR NEAR SANTA FE, NM

LOCATION.--Lat 35°41'23", long 105°49'25", in NE$^1/_4$,SE$^1/_4$SE$^1/_4$, sec.24, T.17 N., R. 11 E., Santa Fe County, Hydrologic Unit 13020201, in Santa Fe National Forest, on right bank upstream from flow line of McClure Reservoir, 0.20 mi upstream from McClure Reservoir, 2.3 mi upstream from Nichols Reservoir, and 6.0 mi east of Santa Fe.

PERIOD OF RECORD.--July 1998 to current year.

GAGE.--Water-stage recorder with satellite telemetry with 1.5-ft and 8-ft Parshall flume. Elevation of gage is 7,920 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for those estimated, which are poor. Low flows in 1.5 ft Parshall flume computed under station 08315479.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.87	5.5	e3.8	e2.2	e2.8	e3.0	9.6	25	19	4.0	1.9	2.1
2	.81	4.8	e3.5	e2.3	e3.0	e3.0	11	29	18	2.4	2.5	1.9
3	.76	5.3	e3.0	e2.5	e3.0	e3.2	13	32	18	2.2	3.5	1.8
4	.80	5.8	e3.0	e2.4	e3.0	e3.2	15	31	18	2.5	2.1	1.8
5	.87	5.9	e3.2	e2.8	e3.0	e3.1	14	27	18	2.2	1.9	1.7
6	.77	e4.5	e3.5	e2.8	e3.6	e3.1	15	23	18	2.0	1.9	1.6
7	.82	e3.9	e4.0	e2.2	e3.6	e3.3	13	20	17	1.9	1.7	1.4
8	1.6	e4.0	e3.5	e2.2	e2.7	e5.0	12	18	17	1.9	1.8	1.4
9	1.0	e3.9	e3.2	e2.8	e2.2	e5.4	11	19	17	1.8	2.5	1.4
10	.95	e4.4	e3.4	e2.4	e2.2	e5.8	10	22	16	1.8	2.8	1.3
11	1.0	e3.9	e2.6	e2.1	e2.7	e6.4	10	26	14	1.9	2.4	1.3
12	5.6	e2.9	e3.5	e2.7	e3.0	e6.4	9.3	29	11	1.8	2.3	1.2
13	3.6	e3.0	e2.9	e2.6	e3.6	e6.8	8.4	31	7.1	1.8	2.3	1.3
14	2.1	e4.0	e3.2	e2.4	e2.5	e6.3	8.0	37	5.6	2.7	4.7	1.4
15	1.8	e3.0	e2.5	e2.9	e2.6	5.1	7.9	41	5.3	1.9	3.6	1.3
16	1.7	e3.2	e2.2	e2.2	e3.0	5.8	8.6	42	5.0	1.7	3.3	1.2
17	1.6	e3.2	e1.8	e2.6	e3.0	5.7	11	43	4.9	1.7	2.9	1.3
18	1.6	e3.0	e1.7	e2.6	e3.0	5.4	14	42	4.8	1.6	2.6	1.1
19	1.5	e3.2	e2.0	e2.8	e3.0	5.3	20	40	4.8	1.6	2.5	1.1
20	1.5	e3.4	e2.4	e2.6	e3.0	5.5	22	41	4.6	1.6	2.4	.99
21	1.5	e3.8	e2.6	e2.5	e3.0	6.9	20	36	4.5	1.7	2.4	1.1
22	1.7	e4.4	e2.7	e2.8	e3.3	10	17	30	4.3	1.5	2.5	1.1
23	4.7	e3.8	e2.7	e2.6	e3.2	13	14	27	4.2	1.6	2.2	.99
24	7.2	e3.8	e3.0	e2.6	e2.5	14	13	25	4.1	1.6	2.1	.96
25	5.1	e3.8	e2.8	e2.3	e3.0	15	12	24	4.4	1.7	2.0	.95
26	4.1	e3.8	e2.2	e2.7	e3.0	17	12	24	4.4	1.9	2.0	.92
27	3.6	e3.3	e2.5	e2.6	e3.1	17	13	24	4.2	1.6	1.9	.86
28	12	e3.3	e2.7	e2.6	e3.0	14	15	23	4.0	1.5	2.1	.84
29	13	e3.3	e2.6	e2.3	---	12	18	23	3.9	1.4	2.2	.79
30	8.6	e3.5	e2.4	e2.8	---	11	22	21	4.1	1.6	2.3	.88
31	6.7	---	e2.4	e2.8	---	9.6	---	20	---	2.3	2.4	---
TOTAL	99.45	117.6	87.5	78.7	82.6	236.3	398.8	895	285.2	59.4	75.7	37.98
MEAN	3.21	3.92	2.82	2.54	2.95	7.62	13.3	28.9	9.51	1.92	2.44	1.27
MAX	13	5.9	4.0	2.9	3.6	17	22	43	19	4.0	4.7	2.1
MIN	.76	2.9	1.7	2.1	2.2	3.0	7.9	18	3.9	1.4	1.7	.79
AC-FT	197	233	174	156	164	469	791	1780	566	118	150	75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

MEAN	2.84	3.82	2.14	1.94	1.97	3.71	6.94	15.9	7.35	3.12	9.81	2.57
MAX	3.32	5.95	2.82	2.54	2.95	7.62	13.3	28.9	11.3	5.38	23.4	4.19
(WY)	1999	1999	2001	2001	2001	2001	2001	2001	1999	1998	1999	1998
MIN	1.99	1.59	1.28	1.32	1.36	1.73	3.10	4.60	1.26	.93	2.44	1.27
(WY)	2000	2000	2000	2000	1999	1999	1999	2000	2000	2000	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1998 - 2001	
ANNUAL TOTAL	928.90		2454.23			
ANNUAL MEAN	2.54		6.72		5.08	
HIGHEST ANNUAL MEAN					6.72	2001
LOWEST ANNUAL MEAN					2.11	2000
HIGHEST DAILY MEAN	19	Aug 19	43	May 17	67	Aug 9 1999
LOWEST DAILY MEAN	.43	Jul 25	.76	Oct 3	.43	Jul 25 2000
ANNUAL SEVEN-DAY MINIMUM	.55	Jul 20	.81	Oct 1	.55	Jul 20 2000
MAXIMUM PEAK FLOW			47	May 17	105	Aug 8 1999
MAXIMUM PEAK STAGE			1.19	May 17	2.05	Aug 8 1999
INSTANTANEOUS LOW FLOW					.23	Aug 16 2000
ANNUAL RUNOFF (AC-FT)	1840		4870		3680	
10 PERCENT EXCEEDS	5.1		18		13	
50 PERCENT EXCEEDS	1.8		3.0		2.6	
90 PERCENT EXCEEDS	.84		1.5		1.2	

e Estimated

08315500 MCCLURE RESERVOIR NEAR SANTA FE, NM

LOCATION.--Lat 35°41'18", long 105°50'06", in $NE^1/_4SW^1/_4$, 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 mi^2.

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 1995, modifications to the dam and spillway increased capacity to 3,257 acre-ft. Only the storage of Rio Grande water in excess of 1,061 acre-ft is subject to terms of the Rio Grande Compact. No dead storage.

COOPERATION.--Capacity table provided by Public Service Co. of New Mexico. Supplementary gage readings provided by City of Santa Fe.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 3,280 acre-ft, June 8, 1997, gage height, 86.03 ft; no contents Jan. 25 to May 8, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 3,260 acre-ft; May 19, gage height, 7,885.88 ft; minimum, 324 acre-ft, Oct. 16, gage height, 7827.35 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	506	605	901	1050	1140	e1290	e1950	2700	3260	2900	2520	1850
2	507	623	908	1050	1150	e1290	e1980	2750	3260	2870	2510	1830
3	509	644	914	1050	1160	e1290	e2030	2800	3260	2840	2510	1820
4	510	654	921	1060	1160	e1300	2090	2850	3250	2810	2500	1780
5	512	669	929	1060	1170	e1320	2130	2900	3250	2780	2500	1720
6	513	684	935	1060	1180	e1330	2170	2930	3250	2750	2480	1650
7	515	698	940	1070	1180	e1340	2210	2960	3250	2730	2440	1610
8	518	709	948	1070	1190	e1350	2240	3000	3250	2710	2410	1570
9	502	721	954	1070	1200	e1360	2270	3010	3250	2690	2380	1540
10	470	733	960	1080	1210	e1370	2290	3030	3250	2660	2350	1500
11	439	745	965	1080	1210	e1390	2310	3050	3240	2650	2320	1470
12	419	e755	972	1080	1220	e1390	2340	3080	3240	2640	2280	1450
13	394	e765	977	1090	1230	e1410	2360	3110	3230	2640	2250	1450
14	367	773	981	1090	1240	e1430	2370	3150	3220	2640	2230	1460
15	339	782	987	1090	e1240	e1440	2390	3200	3220	2630	2190	1450
16	324	793	992	1100	1250	e1480	2370	3250	3210	2620	2160	1450
17	328	802	996	1100	e1250	e1500	2350	3260	3200	2620	2130	1450
18	332	807	e998	1110	e1250	e1540	2360	3260	3190	2610	2100	1450
19	335	814	1000	1110	e1250	e1560	2390	3260	3180	2600	2070	1450
20	338	822	1010	1110	e1260	e1590	2420	3260	3160	2600	2040	1450
21	342	829	1010	1110	e1260	e1610	2440	3260	3140	2590	2010	1450
22	347	837	1010	1110	e1260	e1650	2470	3260	3110	2580	1970	1450
23	364	846	1020	1120	e1260	e1670	2490	3260	3090	2570	1950	1450
24	390	852	1020	1120	e1270	e1710	2500	3260	3070	2570	1940	1450
25	408	859	1030	1120	e1270	e1740	2510	3260	3040	2560	1930	1420
26	421	865	e1030	1130	e1280	e1770	2530	3260	3020	2550	1910	1390
27	432	872	e1030	1130	e1280	e1790	2560	3260	2990	2550	1900	1350
28	476	879	e1040	1140	e1280	e1820	2590	3260	2970	2540	1890	1320
29	523	887	e1040	1140	---	e1850	2630	3260	2940	2530	1880	1290
30	557	894	e1050	1150	---	e1900	2660	3260	2920	2530	1870	1250
31	583	---	e1050	1150	---	e1920	---	3260	---	2520	1860	---
MAX	583	894	1050	1150	1280	1920	2660	3260	3260	2900	2520	1850
MIN	324	605	901	1050	1140	1290	1950	2700	2920	2520	1860	1250
(+)	7837.94	7847.01	e7850.79	7852.99	e7855.73	e7866.94	7877.95	7885.78	7881.39	7876.00	7865.96	7855.17
(++)	+79	+311	+156	+100	+130	+640	+740	+600	-340	-400	-660	-610

CAL YR 2000 MAX 2510 MIN 324 (++) -1430
WTR YR 2001 MAX 3260 MIN 324 (++) +746

e Estimated

(+) Elevation, in feet, at end of month
(++) Change, in contents, in acre-feet

08316000 SANTA FE RIVER NEAR SANTA FE, NM

LOCATION.--Lat 35°41'12", long 105°50'35", in NE$^1/_4$SE$^1/_4$ 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 mi^2.

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 with satellite telemetry 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 those estimated, which are poor. Flow regulated by McClure Reservoir (station 08315500), completed in 1926, raised in 1935, 1947, and again in 1989.

EXTREMES OUTSIDE PERIOD OF RECORD.--Peaks which probably exceeded 1,000 ft^3/s occurred Aug. 19, 1872, and Sept. 29 or 30, 1904. Without regulation the flood of Sept. 23, 1929, might have exceeded 1,500 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.33	.12	e.09	e.08	.13	1.4	11	14	15	5.1	7.2
2	.02	.24	.12	e.10	e.09	.13	1.4	8.8	13	16	5.0	7.3
3	.04	.21	.12	e.10	e.10	.12	1.4	8.0	12	16	5.1	7.2
4	.08	.20	.12	e.10	e.13	.13	1.4	8.0	11	16	5.1	20
5	.08	.21	.12	e.12	e.15	.13	1.4	8.0	10	16	5.1	27
6	.07	.16	.11	e.14	e.17	.13	1.4	8.0	9.1	14	12	27
7	.12	.14	.12	e.12	e.14	.22	1.4	6.3	9.5	11	18	21
8	.05	.12	.12	e.10	e.11	.34	1.4	4.4	8.1	11	18	16
9	8.4	.10	.12	e.10	e.09	.43	1.4	13	7.7	11	18	16
10	16	.10	.11	e.12	e.11	.48	1.4	18	7.7	11	18	16
11	16	.12	.11	e.11	e.11	.49	1.4	17	8.3	8.5	18	16
12	16	.11	.11	e.11	e.12	.42	1.4	16	8.3	4.9	18	6.8
13	16	.11	.12	e.10	e.12	.37	1.4	16	8.2	5.0	18	1.2
14	16	.17	e.11	e.10	e.13	.36	1.4	16	8.1	5.0	18	1.2
15	15	.09	e.10	e.09	e.13	.30	1.4	16	8.1	5.0	18	1.2
16	10	.09	e.11	e.09	e.13	.27	20	15	8.1	4.9	17	1.2
17	.05	.13	e.10	e.08	e.15	.25	21	30	8.2	5.0	17	1.2
18	.02	.27	e.09	e.06	e.18	.23	12	34	8.1	4.9	17	1.2
19	.02	.25	e.08	e.07	e.19	.20	11	35	9.5	4.9	16	1.2
20	.03	.17	e.10	e.08	e.22	.20	10	33	12	5.0	16	1.2
21	.03	.13	e.09	e.08	.23	.23	9.8	31	13	5.0	16	1.2
22	.05	.13	e.12	e.09	.23	2.8	9.3	28	13	5.0	16	1.2
23	.24	e.13	e.12	e.11	.24	7.2	9.3	25	14	5.0	11	1.1
24	.21	.12	e.12	e.11	.22	7.3	9.1	23	15	5.0	7.4	1.2
25	.22	.12	e.10	e.11	.19	7.2	10	22	15	5.0	7.3	9.6
26	.21	.13	e.08	e.09	.20	7.3	6.3	22	15	5.0	7.3	16
27	.19	.12	e.06	e.08	.16	7.3	1.8	21	15	5.0	7.3	17
28	1.3	.12	e.07	e.07	.17	7.2	4.3	21	15	5.0	7.3	16
29	1.0	.12	e.08	e.08	---	7.1	4.2	19	15	5.0	7.3	16
30	.59	.12	e.08	e.07	---	4.3	8.1	17	15	5.1	7.3	16
31	.48	---	e.09	e.07	---	1.4	---	16	---	5.1	7.3	---
TOTAL	118.52	4.56	3.22	2.94	4.29	64.66	167.2	566.5	334.0	245.3	383.9	292.4
MEAN	3.82	.15	.10	.095	.15	2.09	5.57	18.3	11.1	7.91	12.4	9.75
MAX	16	.33	.12	.14	.24	7.3	21	35	15	16	18	27
MIN	.02	.09	.06	.06	.08	.12	1.4	4.4	7.7	4.9	5.0	1.1
AC-FT	235	9.0	6.4	5.8	8.5	128	332	1120	662	487	761	580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2001, BY WATER YEAR (WY)

MEAN	4.77	2.98	2.47	2.30	2.66	4.71	12.5	23.1	17.4	9.45	8.50	6.86
MAX	22.6	13.5	7.19	6.87	14.2	30.0	68.5	92.9	75.2	56.2	74.0	36.0
(WY)	1942	1942	1959	1970	1916	1916	1915	1941	1921	1919	1921	1929
MIN	.58	.15	.10	.095	.15	.34	.23	.53	.70	1.06	.81	.90
(WY)	1957	2001	2001	2001	2001	1972	1981	1955	1955	1981	1951	1959

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1913 - 2001	
ANNUAL TOTAL	1716.74		2187.49			
ANNUAL MEAN	4.69		5.99		8.15	
HIGHEST ANNUAL MEAN					26.2	1919
LOWEST ANNUAL MEAN					1.88	1951
HIGHEST DAILY MEAN	48	May 21	35	May 19	378	Sep 23 1929
LOWEST DAILY MEAN	.00	Aug 2	.02	Oct 1	[a].00	Aug 2 2000
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 2	.06	Oct 1	.00	Aug 2 2000
MAXIMUM PEAK FLOW					[b]1500	Aug 14 1921
MAXIMUM PEAK STAGE					[c]5.17	Aug 14 1921
INSTANTANEOUS LOW FLOW					.05	Apr 7 1981
ANNUAL RUNOFF (AC-FT)	3410		4340		5900	
10 PERCENT EXCEEDS	15		16		18	
50 PERCENT EXCEEDS	.52		1.4		4.2	
90 PERCENT EXCEEDS	.05		.09		.96	

e Estimated
a Many days.
b From rating curve extended above 150 ft^3/s.
c Site and datum then in use.

08316500 NICHOLS RESERVOIR NEAR SANTA FE, NM

LOCATION.--Lat 35°41'24", long 105°52'46", in $SE^1/_4NE^1/_4$ 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 mi^2.

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, 689 acre-ft, May 26, 27; maximum gage height, 167.11 ft; minimum, 154 acre-ft, Apr. 16, gage height, 141.19 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	280	478	476	402	277	192	268	217	685	609	304	472
2	273	480	476	398	273	189	262	213	685	616	287	469
3	265	482	e476	395	269	187	259	207	684	624	273	466
4	258	485	475	393	265	184	255	207	683	632	263	500
5	250	487	474	391	261	181	248	211	679	640	256	530
6	237	488	471	388	257	179	242	208	669	643	e279	563
7	225	490	465	386	253	179	235	203	663	640	e300	589
8	214	491	462	381	249	179	227	192	655	635	e321	601
9	218	492	462	374	e245	182	219	200	645	631	e342	612
10	250	493	463	372	e239	185	210	223	635	626	e356	624
11	283	494	463	369	e236	189	201	241	627	616	e373	637
12	322	494	464	368	e233	188	194	254	619	598	e387	628
13	354	494	460	365	e233	186	187	269	611	582	e399	609
14	386	490	452	363	233	182	175	279	603	567	e426	589
15	419	481	443	361	233	177	160	293	594	552	e442	569
16	443	475	438	358	231	171	189	303	586	537	457	548
17	443	475	438	350	227	171	217	350	578	523	473	523
18	443	475	438	343	223	169	226	412	569	510	483	508
19	443	475	438	339	220	169	231	476	563	496	499	494
20	442	475	439	334	216	168	235	537	563	482	512	473
21	442	475	439	329	213	169	239	587	564	468	526	454
22	441	475	439	325	210	173	241	621	562	453	539	431
23	443	476	440	320	207	187	243	649	560	438	546	408
24	443	476	440	315	204	201	245	674	562	425	537	380
25	443	476	435	311	201	217	249	688	568	404	524	377
26	442	476	425	306	199	233	246	688	575	388	516	e391
27	441	475	420	302	197	249	232	688	584	373	507	e405
28	454	476	417	297	195	263	223	688	593	358	500	e416
29	465	476	413	292	---	275	214	687	598	343	494	e428
30	472	476	407	287	---	279	211	688	603	331	487	e440
31	476	---	405	282	---	274	---	687	---	319	479	---
MAX	476	494	476	402	277	279	268	688	685	643	546	637
MIN	214	475	405	282	195	168	160	192	560	319	256	377
(+)	159.35	159.34	156.28	150.16	144.42	149.65	145.59	167.04	164.17	152.09	159.50	e157.80
(++)	+187	0	-71	-192	-87	+79	-63	-476	-84	-284	-160	-39

CAL YR 2000 MAX 577 MIN 125 (++) +50
WTR YR 2001 MAX 688 MIN 160 (++) +151

e Estimated

(+) Gage height, in feet, at end of month
(++) Change in contents, in acre-feet

08317050 ARROYO HONDO NEAR SANTA FE, NM

LOCATION.--Lat 35°37'19", long 105°55'06", in NE$^1/_4$NW$^1/_4$SW$^1/_4$ sec 18, T.16 N., R.9 E., Santa Fe County, Hydrologic Unit 13020201, on left bank 150 ft upstream from U.S. Highway 85, approximately 7 mi east of Santa Fe.

PERIOD OF RECORD.--October 2000 to September 2001.

GAGE.--Water-stage recorder.

REMARKS.--Records good except for those estimated, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21 ft^3/s, July 1, 2000, gage height 3.65 ft; minimum, no flow during some days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.8 ft^3/s, Mar. 7, gage height 2.11 ft; minimum, no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	1.5	.32	e.10	e.05	3.0	e1.4	.12	.00	.00	.00	.00
2	.00	1.2	.32	e.10	e.10	2.9	e1.4	.11	.00	.00	.00	.00
3	.00	.99	.37	e.10	e.10	2.9	e1.4	.10	.00	.00	.00	.00
4	.00	1.1	.30	e.10	e.15	2.9	1.3	.52	.00	.00	.00	.00
5	.00	1.2	.36	e.10	e.20	3.1	1.1	.94	.00	.00	.00	.00
6	.00	1.1	.32	.08	e.20	3.3	1.4	.57	.00	.00	.00	.00
7	.00	.96	.34	.07	e.20	3.8	1.1	.32	.00	.00	.00	.00
8	.00	.92	.28	.07	e.15	4.5	.79	.23	.00	.00	.00	.00
9	.00	.90	.30	.09	e.10	4.4	.50	.20	.00	.00	.00	.00
10	.00	.88	.26	.11	e.10	4.7	.33	.17	.00	.00	.00	.00
11	.00	1.0	.23	.14	e.20	4.5	.47	.15	.00	.00	.00	.00
12	.00	.92	.21	.15	e.40	4.3	.54	.13	.00	.00	.00	.00
13	.00	.84	.23	.18	e.70	4.2	.47	.17	.00	.00	.00	.00
14	.00	.92	.19	e.10	e.90	4.0	.43	.19	.00	.00	.00	.00
15	.00	.95	.25	e.05	e1.1	3.8	.35	.13	.00	.00	.00	.00
16	.00	.84	e.20	e.10	e1.3	3.5	.33	.12	.00	.00	.00	.00
17	.00	.84	e.15	e.10	e1.7	3.3	.31	.12	.00	.00	.00	.00
18	.00	.84	e.10	e.05	e1.9	3.0	.32	.10	.00	.00	.00	.00
19	.00	.84	e.05	e.05	2.2	2.7	.30	.19	.00	.00	.00	.00
20	.00	.81	e.05	e.05	2.3	2.6	.30	.23	.00	.00	.00	.00
21	.00	.74	e.05	e.05	2.4	2.7	.25	.13	.00	.00	.00	.00
22	.00	.69	e.10	e.10	2.6	3.2	.29	.11	.00	.00	.00	.00
23	.02	.72	e.15	e.10	2.9	3.0	.25	.08	.00	.00	.00	.00
24	.00	.62	e.20	e.10	2.9	2.3	.19	.06	.00	.00	.00	.00
25	.00	.50	e.15	e.15	2.7	e2.0	.17	.05	.00	.00	.00	.00
26	.00	.47	e.10	e.10	2.8	e1.8	.17	.04	.00	.00	.00	.00
27	.00	.41	e.05	e.15	2.9	e1.7	.19	.03	.00	.00	.00	.00
28	.28	.38	e.05	e.10	3.1	e1.6	.21	.02	.00	.00	.00	.00
29	2.6	.35	e.10	e.10	---	e1.5	.17	.02	.00	.00	.00	.00
30	2.5	.39	e.05	e.10	---	e1.5	.13	.01	.00	.00	.00	.00
31	2.0	---	e.10	e.05	---	e1.4	---	.01	---	.00	.00	---
TOTAL	7.40	24.82	5.93	2.99	36.35	94.1	16.56	5.37	0.00	0.00	0.00	0.00
MEAN	.24	.83	.19	.096	1.30	3.04	.55	.17	.000	.000	.000	.000
MAX	2.6	1.5	.37	.18	3.1	4.7	1.4	.94	.00	.00	.00	.00
MIN	.00	.35	.05	.05	.05	1.4	.13	.01	.00	.00	.00	.00
AC-FT	15	49	12	5.9	72	187	33	11	.00	.00	.00	.00

WTR YR 2001 TOTAL 193.52 MEAN .53 MAX 4.7 MIN .00 AC-FT 384

e Estimated

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 mi^2 approximately, including 2,940 mi^2, in closed basin in San Luis Valley, CO.

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

GAGE.--Water-stage recorder with satellite telemetry. 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, 1999, 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.

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, 53,370 acre-ft, Dec. 12, elevation, 5,343.29 ft; minimum, 48,050 acre-ft, Sept. 1, elevation, 5,339.05 ft.

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

(Based on Survey by U.S. Army Corps of Engineers in 1999)

5,338.0	46,905	5,340.0	49,145
5,339.0	49,997	5,350.0	63,852

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48220	48400	51710	51630	50880	50170	50990	50800	49840	49820	49450	48050
2	48110	48220	51840	51540	50850	50110	50830	50640	49900	49730	49280	48080
3	48150	48230	52000	51460	50930	50020	50690	50610	49380	49790	49030	48280
4	48180	48480	52050	51410	51030	49900	50660	50690	49390	49690	48890	48630
5	48240	48680	52120	51420	51090	49880	50690	51660	49740	49490	48930	48800
6	48390	48850	52170	51450	51130	49900	50640	52240	49840	49250	48940	48820
7	48570	48860	52290	51480	51130	49970	50700	52140	49820	49110	48980	48720
8	48920	48890	52500	51460	51140	50100	50420	51410	49830	49070	49130	48560
9	49200	48990	52710	51400	51170	50240	50350	50830	49890	49180	49690	48380
10	49050	49070	52880	51370	51180	50450	50190	50450	49970	49440	49480	48240
11	48840	49160	53170	51360	51140	50690	50060	50180	49840	49480	49110	48230
12	49020	49280	53370	51360	51100	50760	50050	50450	49670	49360	48850	48240
13	48890	49450	53280	51330	51120	50760	50020	50990	49760	49260	48860	48420
14	48600	49610	53030	51310	51080	50800	49920	51180	50040	49540	49170	48640
15	48280	49780	52870	51240	50940	50860	49780	50950	50300	49760	49800	48610
16	48180	50040	52600	51240	50790	50910	49530	50980	50660	49550	49790	48590
17	48280	50240	52320	51240	50650	51000	49280	51560	50850	49240	49680	48600
18	48490	50330	52160	51150	50640	51080	49280	52170	50900	49160	49170	48520
19	48630	50430	52100	51030	50680	51040	49280	52540	50730	49140	48740	48370
20	48690	50520	52160	51030	50650	50860	49690	52650	50260	49000	48630	48330
21	48640	50660	52180	51060	50630	50700	50120	51750	49780	48900	48600	48370
22	48560	50850	52160	51090	50610	50600	50520	50140	49510	48900	48710	48370
23	48600	51240	52170	51190	50530	50530	51090	49960	49550	48880	48890	48280
24	49220	51360	52170	51230	50440	50420	51230	50630	49960	48930	49000	48190
25	49380	51290	52220	51260	50440	50400	50980	50700	50320	49200	48850	48210
26	49290	51230	52220	51200	50290	50390	50590	50380	50520	49390	48590	48240
27	49120	51200	52080	51220	50010	50610	50450	50180	50460	49880	48420	48230
28	50080	51220	51890	51270	50170	50900	50400	50280	50340	49680	48300	48230
29	49940	51350	51790	51220	---	51040	50990	50380	50130	49220	48320	48220
30	49490	51560	51750	51100	---	51090	51090	50060	50010	49160	48260	48230
31	48960	---	51700	50960	---	51090	---	49780	---	49300	48080	---
MAX	50080	51560	53370	51630	51180	51090	51230	52650	50900	49880	49800	48820
MIN	48110	48220	51700	50960	50010	49880	49280	49780	49380	48880	48080	48050
(+)	5339.84	5341.96	5342.06	5341.49	5340.85	5341.59	5341.59	5340.53	5340.72	5340.13	5339.18	5339.21
(++)	+610	+2600	+140	-740	-790	+920	0	-1310	+230	-710	-1220	+150

CAL YR 2000 MAX 53370 MIN 47580 (++) +890
WTR YR 2001 MAX 53370 MIN 48050 (++) -120

(+) Elevation, in feet, at end of month
(++) Change in contents, in acre-feet

08317400 RIO GRANDE BELOW COCHITI DAM, NM

LOCATION.--Lat 35°37'05", long 106°19'24", in $SW^1/_4NE^1/_4$ 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 mi^2, approximately, including 2,940 mi^2 in closed basin in San Luis Valley, CO.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder with satellite telemetry. 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of May 15, 1941, reached a discharge of 23,400 ft^3/s at a nearby site upstream from mouth of Santa Fe River. The flood of May 23, 1920, probably exceeded 23,400 ft^3/s, and is likely the highest since 1905.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	552	611	495	574	604	747	1060	1690	2720	1110	915	972
2	534	454	511	574	557	684	1050	1700	2660	1120	884	962
3	529	345	511	573	528	663	1040	1820	2660	1130	881	930
4	531	315	532	560	528	663	1090	1810	2280	1050	880	876
5	520	315	521	544	561	624	1160	1750	2160	1030	879	890
6	483	315	509	545	582	597	1170	1740	2320	1020	855	921
7	466	315	468	545	606	598	1120	1980	2310	1060	827	932
8	397	281	448	563	623	602	1110	2150	2110	1100	822	955
9	311	235	448	579	623	605	911	1930	2000	1070	853	955
10	340	220	448	579	622	606	802	1770	1990	1050	889	989
11	381	222	449	579	622	607	726	1760	2280	1040	922	996
12	342	222	478	579	621	703	644	1760	2260	1020	858	988
13	354	221	589	579	623	732	648	1760	1990	1010	752	925
14	380	203	641	579	662	696	650	2130	1740	1090	634	849
15	338	190	625	579	720	693	651	2530	1660	1140	646	825
16	224	302	606	579	701	696	661	2650	1500	1060	686	823
17	152	328	605	579	682	698	734	2760	1450	1000	684	781
18	125	369	539	579	684	698	858	2920	1360	943	679	750
19	125	368	474	540	685	737	937	2940	1330	929	678	762
20	160	371	405	512	685	744	1090	2880	1320	950	675	776
21	199	372	460	511	685	721	1260	3590	1260	974	688	777
22	236	386	504	511	686	722	1280	4090	1150	970	703	779
23	262	403	505	512	745	768	1170	2960	1130	971	743	776
24	330	482	508	532	793	826	1080	2360	1140	971	812	753
25	445	536	511	567	792	848	1080	2450	1140	971	838	766
26	555	536	567	579	839	889	1070	2430	1140	989	838	782
27	516	536	610	579	894	889	1020	2520	1140	1080	838	799
28	461	537	610	580	716	976	1070	2640	1130	1000	885	797
29	613	499	588	612	---	1130	1080	2770	1120	964	1010	795
30	615	471	575	632	---	1130	1420	2990	1110	925	1000	795
31	614	---	575	632	---	1060	---	2910	---	911	989	---
TOTAL	12090	10960	16315	17567	18669	23352	29642	74140	51560	31648	25243	25676
MEAN	390	365	526	567	667	753	988	2392	1719	1021	814	856
MAX	615	611	641	632	894	1130	1420	4090	2720	1140	1010	996
MIN	125	190	405	511	528	597	644	1690	1110	911	634	750
AC-FT	23980	21740	32360	34840	37030	46320	58790	147100	102300	62770	50070	50930
(+)	7390	e6060	d	d	d	6010	7560	8550	8190	7930	8170	8120
(++)	3810	e1590	0	0	d	e4160	4100	4670	4540	4590	4550	4240
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2001, BY WATER YEAR (WY)												
MEAN	606	887	906	839	979	1226	1969	3183	2995	1664	922	737
MAX	2045	1878	1787	2245	3639	2868	6320	6101	6205	5643	3683	1635
(WY)	1998	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1971 - 2001	
ANNUAL TOTAL	326761		336862			
ANNUAL MEAN	893		923		1410	
HIGHEST ANNUAL MEAN					2355	1986
LOWEST ANNUAL MEAN					452	1977
HIGHEST DAILY MEAN	1540	Jun 3	4090	May 22	8290	May 7 1985
LOWEST DAILY MEAN	125	Oct 18	125	Oct 18	.51	Aug 4 1977
ANNUAL SEVEN-DAY MINIMUM	174	Oct 16	174	Oct 16	39	Sep 16 1977
MAXIMUM PEAK FLOW					[a]10300	Jul 26 1971
MAXIMUM PEAK STAGE					[b]7.90	Jul 26 1971
INSTANTANEOUS LOW FLOW					[c].51	Aug 5 1977
ANNUAL RUNOFF (AC-FT)	648100		668200		1021000	
10 PERCENT EXCEEDS	1330		1790		3560	
50 PERCENT EXCEEDS	928		743		886	
90 PERCENT EXCEEDS	394		393		389	

a From rating curve extended above 2,600 ft^3/s.
b Site and datum then in use.
c Aug. 3-5, 1997, Aug. 27, 28, 1978, result of regulation.
d Unknown.
e Estimated
(+) Diversion, in acre-feet, by Cochiti Eastside Main Canal at Head.
(++) Diversion, in acre-feet, Sili Main Canal at Head.

08317900 GALISTEO RESERVOIR NEAR CERRILLOS, NM

LOCATION.--Lat 35°27'44", long 106°12'30", in NW$^1/_4$ 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 mi^2.

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	5,050	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 NE¼NE¼ 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 with satellite telemetry. 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 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. No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.22	.00	e2.2	e.91	.00	.00	.00	.00	.00	.00
2	.00	.00	.11	.00	e2.1	.56	.00	.00	.00	.00	2.3	.00
3	.00	.00	.05	.00	e1.9	.48	.00	.00	.00	.00	1.9	.00
4	.00	.00	.02	e.33	e1.9	.18	.00	.34	.00	.00	.03	.00
5	.00	.00	.01	e4.6	e3.2	.10	.00	.60	e.00	.00	.05	.00
6	.00	.00	.02	e3.2	e2.9	.38	.46	.21	e.00	.00	.00	.00
7	.00	.00	.02	e1.6	e2.6	e.35	.61	.00	e.00	.00	.00	.00
8	.00	.00	.02	e.91	e2.8	e2.9	.04	.00	e4.6	.00	.00	.00
9	.00	.00	.06	e1.0	e2.6	e.44	.00	.00	e.00	.00	13	.00
10	.00	.00	.60	e.91	e2.4	e.65	.00	.00	e.00	.00	1.4	.00
11	.00	.00	.10	e1.1	e2.6	.53	.00	.00	e.00	.08	.03	.00
12	5.5	.00	.01	e1.7	e2.2	.17	.00	.00	.00	.00	1.9	.00
13	.00	.00	.00	e4.0	e2.2	.03	.00	.00	.00	.00	43	.00
14	.00	.00	.06	e2.4	e1.3	.10	.00	.00	.00	.00	134	.00
15	.00	.00	.06	e1.1	e1.3	.00	.00	.00	.00	.00	1.5	.00
16	.00	.00	.02	e2.1	e1.2	.00	.00	.00	.00	.00	.43	.00
17	.00	.00	.01	e4.0	e.54	.29	.00	.00	.00	.00	.06	.00
18	.00	.00	.00	e2.9	e1.2	e.15	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	e4.6	e1.2	e.27	.00	.00	26	.00	.00	.00
20	.00	.00	.05	e8.6	e1.1	e.10	.00	.00	95	.00	.00	.00
21	.00	.00	.41	e3.4	e.91	e.06	.00	.00	.00	.00	.00	.00
22	.00	.00	.53	e2.9	e1.2	.00	.00	.00	7.4	.00	.00	.00
23	19	1.2	.48	e3.7	e1.0	.00	.00	.00	.00	.00	.00	.00
24	73	.28	.22	e2.9	e.90	.00	.00	.00	.00	.00	.00	.00
25	.16	.21	.00	e6.1	e.78	.00	.00	.00	.63	.00	.00	.00
26	.00	.02	.00	e6.9	e.91	.00	.00	.00	43	.24	.00	.00
27	.00	.00	.00	e5.0	e1.0	.00	.00	.00	1.7	.00	.00	.00
28	18	.02	.00	e5.7	e1.7	.00	.03	.00	.00	.00	48	.00
29	11	.10	.00	e3.4	---	.00	.11	.00	.00	.00	92	.00
30	3.3	.05	.00	e3.1	---	.00	.00	.00	.00	.00	4.2	.00
31	.10	---	.00	e2.6	---	.00	---	.00	---	.00	.00	---
TOTAL	130.06	1.88	3.08	90.75	47.84	8.65	1.25	1.15	178.33	0.32	343.80	0.00
MEAN	4.20	.063	.099	2.93	1.71	.28	.042	.037	5.94	.010	11.1	.000
MAX	73	1.2	.60	8.6	3.2	2.9	.61	.60	95	.24	134	.00
MIN	.00	.00	.00	.00	.54	.00	.00	.00	.00	.00	.00	.00
AC-FT	258	3.7	6.1	180	95	17	2.5	2.3	354	.6	682	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2001, BY WATER YEAR (WY)

MEAN	4.69	1.63	1.39	1.42	1.94	2.76	2.63	2.92	6.96	19.5	18.0	9.22
MAX	28.9	7.70	6.55	6.25	11.6	19.8	23.8	31.7	33.8	110	70.0	52.4
(WY)	1982	1995	1987	1993	1993	1993	1973	1985	1996	1971	1999	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1970 - 2001	
ANNUAL TOTAL	1543.55		807.11			
ANNUAL MEAN	4.22		2.21		6.02	
HIGHEST ANNUAL MEAN					12.8	1972
LOWEST ANNUAL MEAN					1.28	1980
HIGHEST DAILY MEAN	310	Aug 19	134	Aug 14	1190	Aug 9 1999
LOWEST DAILY MEAN	.00	Mar 18	.00	Oct 1	.00	May 15 1970
ANNUAL SEVEN-DAY MINIMUM	.00	Apr 4	.00	Oct 1	.00	May 30 1970
MAXIMUM PEAK FLOW					3460	Aug 24 1997
MAXIMUM PEAK STAGE					5.57	Aug 24 1997
ANNUAL RUNOFF (AC-FT)	3060		1600		4360	
10 PERCENT EXCEEDS	.91		2.9		7.0	
50 PERCENT EXCEEDS	.00		.00		.32	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated

08319000 RIO GRANDE AT SAN FELIPE, NM

LOCATION.--Lat 35°26'47", long 106°26'24", in SW¼NW¼ 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.--Water-discharge records fair. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	651	718	e584	e592	603	e767	1180	1610	2750	1020	932	998
2	645	654	e593	e593	569	e753	1160	1650	2680	1040	920	1010
3	630	520	e593	593	536	e735	1160	1730	2670	1080	921	992
4	626	471	e612	589	534	e746	1170	1810	2390	995	921	935
5	626	464	602	558	547	e706	1220	1770	2100	977	920	919
6	600	451	583	558	573	640	1270	e1760	2230	984	914	966
7	587	451	572	557	583	645	1200	e1900	2300	1010	859	974
8	583	434	534	564	604	648	1190	e2120	2240	1050	862	998
9	483	386	534	585	613	646	1090	2090	1950	1040	888	996
10	459	355	532	576	613	643	889	1910	1940	1030	919	1020
11	533	356	523	575	615	648	919	1890	2120	1040	1040	1040
12	551	356	535	577	613	697	783	1890	2270	992	879	1030
13	484	355	615	579	613	773	775	1900	2000	981	904	1000
14	513	345	690	576	624	739	768	2060	1700	1030	918	939
15	488	327	688	574	685	736	763	2420	1580	1060	747	922
16	423	350	655	577	682	736	769	2580	1440	1060	779	925
17	328	352	645	577	676	742	824	2650	1340	1020	771	900
18	280	404	623	575	675	745	915	2820	1290	966	769	850
19	273	415	558	560	677	770	1020	2890	1220	948	773	843
20	275	416	497	524	676	825	1100	2910	1330	957	764	852
21	320	417	485	522	676	824	1260	3200	1180	990	770	854
22	345	427	555	522	676	825	1300	3970	1120	995	783	857
23	532	474	557	523	702	841	1240	3290	1040	1000	800	859
24	657	497	557	530	764	906	1120	2240	1060	983	848	851
25	555	582	560	560	767	910	1110	2370	1070	991	882	857
26	643	585	576	575	e778	969	1110	2370	1120	1010	898	865
27	705	e583	629	578	e843	1000	1070	2430	1040	1020	889	885
28	580	e593	e623	578	e713	1050	1110	2580	1030	1010	901	890
29	731	e596	e627	588	---	1190	1110	2670	1020	982	1330	888
30	722	e535	e603	615	---	1270	1260	2900	1020	958	1060	900
31	717	---	e597	615	---	1180	---	2910	---	924	993	---
TOTAL	16545	13869	18137	17665	18230	25305	31855	73290	50240	31143	27554	27815
MEAN	534	462	585	570	651	816	1062	2364	1675	1005	889	927
MAX	731	718	690	615	843	1270	1300	3970	2750	1080	1330	1040
MIN	273	327	485	522	534	640	763	1610	1020	924	747	843
AC-FT	32820	27510	35970	35040	36160	50190	63180	145400	99650	61770	54650	55170
(+)	1790	848	0	0	0	1380	1660	1780	1680	1650	1730	1710
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2001, BY WATER YEAR (WY)												
MEAN	736	923	971	896	1037	1338	2130	3335	3220	1870	1089	880
MAX	2164	2072	1969	2163	3695	3054	6126	6160	6534	5979	3667	1781
(WY)	1998	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1974 - 2001	
ANNUAL TOTAL	336634		35164			
ANNUAL MEAN	920		963		[a]1536	
HIGHEST ANNUAL MEAN					2493	1987
LOWEST ANNUAL MEAN					547	1977
HIGHEST DAILY MEAN	1700	Jun 29	3970	May 22	8100	May 7 1985
LOWEST DAILY MEAN	273	Oct 19	273	Oct 19	67	Aug 28 1978
ANNUAL SEVEN-DAY MINIMUM	321	Oct 16	321	Oct 16	135	Aug 23 1978
MAXIMUM PEAK FLOW			4730	Aug 29	[b]273000	May 26 1937
MAXIMUM PEAK STAGE			6.33	Aug 29	[c]11.13	Jun 26 1937
INSTANTANEOUS LOW FLOW			258	Oct 20	32	Jul 7 1934
ANNUAL RUNOFF (AC-FT)	667700		697500		1113000	
10 PERCENT EXCEEDS	1330		1890		3720	
50 PERCENT EXCEEDS	894		800		1000	
90 PERCENT EXCEEDS	522		521		490!	

e Estimated
a Average discharge for 48 years (water years 1926-73), 1,374 ft³/s, 995,500 acre-ft/yr, prior to closure of Cochiti.
b From rating curve extended above 15,000 ft³/s.
c Site and datum then in use.
(+) Monthly diversion, in acre feet, of Cochiti Eastside Canal, record furnished by Middle Rio Grande Conservancy District.

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 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
NOV 07...	0930	6.5	2.0	629	459	19	389	9.2	91	7.8	.0	150	<.010
DEC 20...	1110	3.3	5.1	630	523	4.2	356	--	--	8.3	--	--	--
FEB 01...	1215	2.5	7.0	637	613	2.5	349	12.8	112	8.3	--	--	--
MAR 26...	1015	7.5	8.5	631	962	28	337	10.2	103	8.0	.0	138	<.010
APR 17...	1100	10.0	12.5	644	806	11	300	9.4	99	8.1	.0	120	<.010
JUL 11...	1115	21.0	32.0	639	1050	26	259	7.6	102	8.1	.0	95	<.010

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CYANIDE TOTAL (MG/L AS CN) (00720)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
NOV 07...	.07	<.010	.21	.31	.030	.050	.020	.020	<.01	140	43.9	7.81	22.7
DEC 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 26...	.04	<.010	<.20	.39	.050	.050	<.020	<.010	<.01	120	35.1	6.72	21.8
APR 17...	.02	<.010	.27	.33	<.020	.030	<.020	.020	<.01	110	33.3	6.19	18.3
JUL 11...	.02	<.010	.20	.34	.050	.070	.030	.020	<.01	91	28.0	5.01	14.7

DATE	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)
NOV 07...	.8	3.00	6.8	59.6	.4	20.2	E1.4	99.3	<.06	42	.08	<.8	.23
DEC 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 26...	.9	2.93	7.8	40.4	.4	21.0	E1.7	67.7	<.06	42	<.04	<.8	.16
APR 17...	.8	2.83	6.9	36.2	.4	21.1	2.1	66.2	<.06	32	<.04	E.4	.15
JUL 11...	.7	2.90	3.9	33.7	.3	18.7	E1.7	48.4	<.06	30	<.04	E.5	.09

DATE	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L) (09511)
NOV 07...	.9	<10	.11	25.2	4.9	.57	<1.0	<1	.17	2	<2.4	<2.6	.08
DEC 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 26...	.8	M	E.07	13.8	5.0	.20	<1.0	2	.08	1	<2.4	<2.6	.05
APR 17...	4.1	M	E.06	11.2	4.0	.41	<1.0	2	.22	2	<2.4	<2.6	.05
JUL 11...	1.1	<10	<.08	2.9	3.2	.35	<1.0	2	.09	3	<2.0	<3.0	.05

08319000 RIO GRANDE AT SAN FELIPE, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)
NOV											
07...	2.83	123	--	238	78	<.14	.66	.02	67	130	--
DEC											
20...	--	--	--	--	85	--	--	--	49	--	--
FEB											
01...	--	--	--	--	60	--	--	--	53	--	--
MAR											
26...	3.15	113	19	204	65	<.14	.74	.02	113	121	26
APR											
17...	2.75	99	10	185	51	<.01	.62	.02	53	110	12
JUL											
11...	1.34	78	--	154	86	<.01	.32	.02	56	86	--

DATE	TIME	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
APR			
17...	1100	.6	410

Remark codes used in this report:
< -- Less than
E -- Estimated value

Null value remark codes used in this report:
M -- Presence verified, not quantified

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 mi^2.

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 with satellite telemetry. 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 those estimated, which are fair. Diversion for irrigation of about 300 acres upstream from station. Several observations of water temperature were made during the year.

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 ft^3/s), from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	44	32	23	23	38	394	344	49	26	20	30
2	10	39	33	24	26	35	535	353	44	23	19	29
3	13	38	33	24	28	35	585	338	42	30	26	25
4	16	41	31	25	29	36	588	300	38	28	29	22
5	16	45	31	26	29	39	468	281	36	e24	22	21
6	16	48	32	26	30	42	412	244	36	e22	23	21
7	15	43	30	26	32	46	354	218	34	e20	e25	20
8	16	38	32	23	32	52	369	222	32	e21	e27	20
9	16	34	34	24	28	56	329	235	35	e23	29	19
10	20	38	32	28	28	64	319	226	36	25	33	18
11	24	40	33	25	32	58	259	228	29	21	46	18
12	41	33	27	24	29	57	282	226	26	21	40	18
13	32	26	31	27	31	49	234	223	25	22	64	18
14	28	29	25	21	35	63	225	219	25	23	62	20
15	24	40	28	21	30	61	221	218	25	27	60	21
16	22	29	26	28	29	65	232	227	25	26	42	20
17	21	27	22	26	30	72	241	227	24	24	39	19
18	21	34	21	22	34	60	270	210	23	25	34	19
19	20	39	21	23	32	63	302	210	20	25	28	19
20	19	40	26	25	33	75	298	248	20	23	30	19
21	20	40	27	24	34	101	296	200	20	e27	26	19
22	22	34	26	25	36	156	276	151	20	e24	25	20
23	59	37	25	27	40	190	262	127	18	22	23	19
24	113	29	26	28	36	209	251	111	e22	20	22	19
25	71	33	29	28	33	247	232	102	e27	21	21	18
26	46	30	28	25	38	313	240	92	e31	24	21	18
27	39	35	22	28	38	302	259	81	33	26	22	18
28	117	34	27	28	41	311	335	72	30	30	22	17
29	111	33	26	28	---	312	361	64	26	25	28	17
30	64	34	26	27	---	298	345	59	26	20	29	17
31	49	---	26	24	---	335	---	55	---	20	34	---
TOTAL	1112	1084	868	783	896	3840	9774	6111	877	738	971	598
MEAN	35.9	36.1	28.0	25.3	32.0	124	326	197	29.2	23.8	31.3	19.9
MAX	117	48	34	28	41	335	588	353	49	30	64	30
MIN	10	26	21	21	23	35	221	55	18	20	19	17
AC-FT	2210	2150	1720	1550	1780	7620	19390	12120	1740	1460	1930	1190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2001, BY WATER YEAR (WY)

MEAN	35.8	38.0	29.4	28.9	35.9	91.1	265	236	66.8	32.7	46.6	34.0
MAX	109	128	58.2	50.6	77.1	301	961	1118	274	78.5	128	95.8
(WY)	1987	1987	1987	1995	1995	1995	1958	1973	1979	1986	1999	1991
MIN	14.5	18.4	17.0	16.6	19.9	26.0	30.9	13.5	10.5	14.5	15.8	11.1
(WY)	1957	1957	1957	1977	1955	1996	1996	1996	1996	1972	1956	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1954 - 2001	
ANNUAL TOTAL	14444.2		27652			
ANNUAL MEAN	39.5		75.8		78.4	
HIGHEST ANNUAL MEAN					189	1973
LOWEST ANNUAL MEAN					22.9	1996
HIGHEST DAILY MEAN	173	Apr 28	588	Apr 4	3160	Apr 21 1958
LOWEST DAILY MEAN	8.2	Sep 17	10	Oct 2	2.1	Jul 25 1981
ANNUAL SEVEN-DAY MINIMUM	12	Sep 11	14	Oct 1	6.0	Jul 23 1981
MAXIMUM PEAK FLOW			794	Apr 4	[a]5900	Apr 21 1958
MAXIMUM PEAK STAGE			6.16	Apr 4	[b]10.10	Jul 15 1985
INSTANTANEOUS LOW FLOW			9.8	Oct 1	1.2	Jul 25 1981
ANNUAL RUNOFF (AC-FT)	28650		54850		56800	
10 PERCENT EXCEEDS	110		245		178	
50 PERCENT EXCEEDS	28		30		34	
90 PERCENT EXCEEDS	15		20		18	

e Estimated
a From rating curve extended above 2,200 ft^3/s, on basis of contracted-opening measurement of peak flow.
b Present datum.

08324000 JEMEZ RIVER NEAR JEMEZ, NM--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
FEB													
20...	1045	5.0	12.5	625	31	455	10.8	103	8.2	.0	167	.012	--
AUG													
06...	1110	21.5	31.0	630	22	622	8.1	112	8.5	10	189	<.010	.02

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
FEB													
20...	<.010	<.20	.24	.030	<.020	<.020	<.010	110	37.3	4.00	46.4	2	7.35
AUG													
06...	<.010	<.20	.43	<.020	.060	<.020	<.010	140	46.2	5.18	65.7	2	10.8

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)
FEB													
20...	56.7	12.7	.9	41.6	41.8	55.5	E.05	426	E.03	<.8	.10	.6	40
AUG													
06...	84.4	11.1	1.0	42.6	77.4	3.8	<.06	708	<.04	<.8	.12	<.2	10

DATE	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L) (09511)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
FEB													
20...	.15	13.8	4.2	<.06	<1.0	2	.15	48	<2.4	--	1.54	137	290
AUG													
06...	<.08	14.0	4.3	<.06	<1.0	1	.15	4	<2.0	2.58	1.22	179	371

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	SEDIMENT, SUSPENDED (MG/L) (80154)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
FEB					
20...	--	--	--	--	142
AUG					
06...	94	.29	.54	63	178

Remark codes used in this report:
< -- Less than
E -- Estimated value

08328500 JEMEZ CANYON RESERVOIR NEAR BERNALILLO, NM

LOCATION.--Lat 35°23'40", long 106°32'50", in $SW^1/_4SW^1/_4$ 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 6.0 mi north of Bernalillo.

DRAINAGE AREA.--1,034 mi^2.

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, 1999, 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^3/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, 16,180 acre-ft, May 20, elevation, 5,188.77 ft; minimum contents, 3,660 acre-ft, Sept. 30, elevation, 5,171.70 ft.

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

(Based on survey by U.S. Army Corps of Engineers in 1999)

5,180.0	9,446	5,190.0	17,363
5,185.0	12,803	5,195.0	23,224

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10080	5250	5120	4500	4620	4040	3950	10110	11480	7760	6000	5170
2	9460	4960	5060	4500	4590	4160	4120	10690	11470	7660	5980	5120
3	8850	4840	5010	4500	4610	4130	4180	11210	11430	7600	5950	5050
4	8230	4880	4970	4480	4620	4100	4130	11720	11370	7510	5980	4980
5	7630	4900	4920	4500	4640	4060	3850	12170	11350	7450	5870	4930
6	7000	4910	4880	4530	4650	4000	3760	12560	11310	7390	5830	4860
7	6430	4930	4840	4570	4640	3960	3810	12870	11270	7350	5790	4780
8	5890	4930	4800	4590	4630	3940	3850	13150	11260	7260	5760	4710
9	5440	4900	4780	4620	4620	3920	3890	13450	11230	7190	5700	4650
10	5160	4880	4740	4650	4600	3900	3940	13760	11210	7160	5660	4610
11	5020	4860	4690	4690	4580	3880	3920	14020	11200	7080	5700	4580
12	4930	4820	4710	4710	4560	3850	3900	14300	11150	7040	5670	4550
13	4860	4780	4710	4720	4530	3840	3920	14580	11090	6990	5650	4510
14	4820	4750	4700	4730	4520	3840	3940	14840	11050	6930	5740	4510
15	4800	4740	4670	4740	4480	3840	3970	15090	11030	6880	5740	4470
16	4780	4740	4650	4740	4410	3830	3960	15320	11000	6830	5760	4430
17	4840	4740	4630	4720	4350	3860	4000	15530	10980	6790	5980	4380
18	4860	4650	4610	4690	4290	3880	4180	15710	10970	6740	5950	4320
19	4800	4570	4600	4650	4230	3890	4440	15930	10930	6680	5910	4280
20	4780	4560	4600	4620	4160	3890	4770	16180	10900	6650	5840	4240
21	4770	4570	4610	4610	4100	3910	5170	14880	10800	6590	5760	4200
22	4760	4580	4590	4580	4020	3920	5630	12520	10430	6540	5700	4170
23	4910	4580	4570	4570	3990	4060	6050	11270	9980	6470	5660	4150
24	5020	4580	4540	4560	3940	4120	6470	11300	9580	6410	5600	3950
25	5030	4590	4510	4580	3940	4240	6830	11380	9080	6370	5540	3910
26	4910	4600	4500	4570	3950	4380	7200	11430	8710	6320	5510	3860
27	4880	4950	4510	4570	3960	4270	7610	11480	8480	6270	5440	3830
28	5780	5160	4510	4570	3990	4080	8200	11500	8240	6210	5310	3760
29	5980	5180	4510	4640	---	4000	8810	11520	8080	6160	5180	3720
30	5860	5160	4510	4660	---	3920	9410	11520	7940	6100	5220	3660
31	5550	---	4510	4640	---	3890	---	11510	---	6060	5210	---
MAX	10080	5250	5120	4740	4650	4380	9410	16180	11480	7760	6000	5170
MIN	4760	4560	4500	4480	3940	3830	3760	10110	7940	6060	5180	3660
(+)	5175.72	5175.04	5173.69	5173.99	5172.50	5172.27	5180.96	5183.49	5179.09	5176.54	5175.13	5171.70
(++)	-620	-390	-650	+130	-650	-100	+5520	+2100	-3570	-1880	-850	-1550

CAL YR 2000 MAX 22400 MIN 4500 (++) -9340
WTR YR 2001 MAX 16180 MIN 3660 (++) -2510

(+) Elevation, in feet, at end of month
(++) Change in contents, in acre-feet

08329000 JEMEZ RIVER BELOW JEMEZ CANYON DAM, NM

LOCATION.--Lat 35°23'24", long 106°32'03", in NE$^1/_4$ 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 6.0 mi north of Bernalillo.

DRAINAGE AREA.--1,038 mi^2.

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 with satellite telemetry. 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 except for those estimated, which are fair. 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood in 1900 was probably less than 16,000 ft^3/s, but highest observed outside period of record.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	289	194	48	34	35	3.7	287	e5.2	9.5	63	12	28
2	285	190	47	28	28	26	337	e6.0	9.6	50	10	28
3	281	101	47	20	18	45	460	e10	9.9	39	11	27
4	280	28	47	19	18	45	623	e12	10	38	11	26
5	276	27	47	9.6	18	55	687	14	9.9	29	10	27
6	270	27	47	2.3	29	63	499	13	5.5	19	9.0	27
7	264	27	47	1.9	36	63	298	12	1.9	19	16	26
8	256	38	46	1.8	36	63	296	12	1.8	18	20	25
9	233	48	46	1.8	35	62	274	12	1.8	18	23	26
10	159	48	46	1.9	35	62	244	10	1.7	18	23	21
11	111	48	46	1.9	35	62	244	11	1.7	17	25	14
12	110	46	20	13	35	62	244	11	2.2	17	24	16
13	64	46	17	17	35	46	209	11	2.6	17	23	16
14	29	39	30	15	35	29	180	e11	1.6	16	24	20
15	24	29	30	13	51	50	181	e10	1.6	15	25	23
16	21	29	30	13	62	51	181	e12	1.6	14	21	23
17	19	29	30	28	62	42	181	e12	1.6	14	23	23
18	19	28	28	36	62	42	141	e11	1.6	16	23	23
19	19	28	15	35	62	42	96	11	1.7	19	23	24
20	18	28	1.9	35	62	42	48	12	1.7	19	35	23
21	18	20	1.8	35	62	42	27	950	47	18	36	22
22	12	5.6	20	36	62	41	25	1580	170	19	23	23
23	13	5.5	34	36	44	81	25	844	214	19	23	23
24	48	5.0	34	27	32	129	25	37	208	18	21	24
25	79	4.5	34	19	32	129	23	20	203	19	17	23
26	125	4.5	34	19	32	177	18	16	185	17	17	22
27	62	4.0	34	18	26	322	15	13	124	19	18	22
28	11	2.7	34	17	14	354	e7.4	12	102	21	57	22
29	7.8	2.8	34	14	---	309	e5.1	12	82	20	64	22
30	123	30	34	26	---	290	e5.3	11	64	19	28	21
31	197	---	34	35	---	288	---	10	---	16	28	---
TOTAL	3722.8	1162.6	1043.7	609.2	1093	3117.7	5885.8	3723.2	1478.5	680	723.0	690
MEAN	120	38.8	33.7	19.7	39.0	101	196	120	49.3	21.9	23.3	23.0
MAX	289	194	48	36	62	354	687	1580	214	63	64	28
MIN	7.8	2.7	1.8	1.8	14	3.7	5.1	5.2	1.6	14	9.0	14
AC-FT	7380	2310	2070	1210	2170	6180	11670	7380	2930	1350	1430	1370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2001, BY WATER YEAR (WY)

MEAN	27.8	29.5	21.4	23.8	28.2	65.7	184	187	75.1	25.6	44.2	23.2
MAX	193	179	74.4	67.9	75.1	288	772	968	988	358	247	157
(WY)	1987	1958	1987	1999	1987	1995	1985	1973	1958	1987	1991	1988
MIN	.000	2.22	.20	.25	.34	13.5	.96	.000	.000	.000	.13	.000
(WY)	1956	1997	1985	1985	1985	2000	1996	1972	1946	1947	1950	1945

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1943 - 2001	
ANNUAL TOTAL	13866.67		23929.5			
ANNUAL MEAN	37.9		65.6		61.7	
HIGHEST ANNUAL MEAN					178	1973
LOWEST ANNUAL MEAN					10.6	1953
HIGHEST DAILY MEAN	300	Sep 27	1580	May 22	3640	Jun 19 1958
LOWEST DAILY MEAN	.81	Jun 15	1.6	Jun 14	.00	May 24 1943
ANNUAL SEVEN-DAY MINIMUM	.92	Jun 9	1.6	Jun 14	.00	May 24 1943
MAXIMUM PEAK FLOW					[a]16300	Aug 29 1943
MAXIMUM PEAK STAGE					[b]6.63	Apr 28 1998
ANNUAL RUNOFF (AC-FT)	27500		47460		44730	
10 PERCENT EXCEEDS	110		187		152	
50 PERCENT EXCEEDS	8.6		26		18	
90 PERCENT EXCEEDS	2.6		6.8		.00	

e Estimated
a From rating curve extended above 3,000 ft^3/s.
b Site and datum then in use.

08329700 CAMPUS WASH AT ALBUQUERQUE, NM

LOCATION.--Lat 35°05'38", long 106°37'25", in SE$^1/_4$ 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 Barelas Stormwater Pumping Station outfall, 600 ft downstream from Tucker Road bridge, and 1,500 ft northeast of intersection of Lomas and University Boulevards, in Albuquerque.

DRAINAGE AREA.--3.80 mi^2.

PERIOD OF RECORD.--April 1982 to September 1996 (seasonal records). October 1996 to current year.

GAGE.--Water-stage and rainfall recorder and concrete-lined channel. Elevation of gage is 5,143 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for those estimated, which are poor. Recording rain gage at station. Prior to water year 1997 some minor streamflow may exist on days where daily mean discharges have been recorded as zero due to the sensitivity limits of the streamflow monitoring equipment. See tabulation below for monthly precipitation in inches.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	.29	.29	e.20	e.30	.30	.48	.61	.61	1.5	.92	.67
2	.45	.48	.19	e.20	e.20	.32	.51	.62	.56	5.4	1.6	.63
3	.50	.70	.15	e.20	e.20	.26	.55	.63	.60	1.5	.87	.70
4	.58	4.1	.21	e.20	.26	.24	.60	.60	.61	.98	.52	.69
5	.52	.41	.30	.32	.27	.39	2.5	.53	.61	.96	1.5	.69
6	.47	.31	.27	.22	.33	.37	1.7	.57	.62	.76	1.2	.67
7	7.2	.47	.30	.15	.35	2.3	.49	.62	.64	.75	1.2	e.70
8	4.3	.52	.32	e.20	.79	1.0	.47	.60	.64	1.0	.96	e.70
9	.45	.49	.30	1.1	.32	.50	.56	1.1	.56	.79	.82	e.70
10	.47	.37	.32	.89	e.30	.85	.66	.68	.58	.82	2.0	e.70
11	8.4	.90	.23	.29	e.30	.28	.69	.75	.66	.77	.85	e.70
12	12	.27	.89	e.60	.71	.26	.69	.73	.63	.78	.95	e.70
13	.98	e.20	.46	.47	.62	.31	.75	1.4	.64	.94	3.3	e6.0
14	1.2	e.20	.40	e.40	.60	.47	.79	2.0	.84	1.9	17	.76
15	1.4	.40	.39	e.30	.67	.52	.79	.64	.68	.85	.93	.70
16	.57	e.30	.28	.75	.23	.58	.86	.65	.59	.83	1.1	.89
17	.54	e.20	.45	e.40	.33	.53	.82	.72	.63	1.2	.94	.89
18	.56	e.20	.09	e.30	.25	.44	.60	.74	.75	.81	.94	1.1
19	.59	e.20	e.10	e.30	.32	.49	.63	2.4	.76	.83	.91	.76
20	.59	.22	e.10	e.20	.52	.44	.61	.67	.65	.96	1.6	.72
21	1.1	.42	e.10	.19	.57	.52	.57	.67	.65	2.8	1.4	.78
22	.41	.28	e.20	e.20	.67	.56	.54	.67	.64	.92	1.0	.81
23	20	9.1	.22	.35	.51	.56	.61	.71	.72	.83	.82	.78
24	.99	.28	.21	e.30	.50	.48	.61	.77	.95	.82	.85	.82
25	.59	.28	.18	.45	.48	.44	.60	.66	2.4	.83	.80	.77
26	.63	.21	1.2	e.40	.52	.48	.65	.51	.96	6.2	.82	.69
27	.52	.24	.78	.65	.86	.51	3.3	.44	1.0	.96	.74	.68
28	6.0	.28	e1.0	e1.5	2.6	.68	.95	.50	.73	.80	1.4	.71
29	.54	.27	e.50	.59	---	.45	.60	.50	.92	.81	e.80	.63
30	.50	.27	e.20	e.40	---	.51	.62	.51	1.1	.85	e.80	.63
31	.53	---	e.20	e.30	---	.46	---	.58	---	3.9	.78	---
TOTAL	74.10	22.86	10.83	13.02	14.58	16.50	24.80	23.78	22.93	44.05	50.32	27.37
MEAN	2.39	.76	.35	.42	.52	.53	.83	.77	.76	1.42	1.62	.91
MAX	20	9.1	1.2	1.5	2.6	2.3	3.3	2.4	2.4	6.2	17	6.0
MIN	.41	.20	.09	.15	.20	.24	.47	.44	.56	.75	.52	.63
AC-FT	147	45	21	26	29	33	49	47	45	87	100	54
(+)	1.56	0.64	0.18	0.16	0.09	0.36	0.37	0.36	0.25	0.94	1.12	0.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	1.43	.58	.32	.31	.41	1.00	.85	.74	.97	1.69	1.76	1.12
MAX	2.39	.76	.56	.43	.62	1.97	1.32	1.06	1.65	2.43	2.49	2.44
(WY)	2001	2001	1998	2000	1998	1998	1997	1998	2000	1997	1999	1997
MIN	.54	.46	.096	.15	.15	.26	.52	.58	.55	1.02	1.13	.60
(WY)	1998	1999	1997	1998	1997	1997	2000	1999	1998	2000	2000	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL TOTAL	343.13		345.14			
ANNUAL MEAN	.94		.95		.94	
HIGHEST ANNUAL MEAN					1.09	1997
LOWEST ANNUAL MEAN					.80	2000
HIGHEST DAILY MEAN	22	Jun 2	20	Oct 23	39	Mar 15 1998
LOWEST DAILY MEAN	.09	Dec 18	.09	Dec 18	.00	Nov 28 1996
ANNUAL SEVEN-DAY MINIMUM	.15	Dec 18	.15	Dec 18	.05	Jan 6 1997
MAXIMUM PEAK FLOW			372	Oct 23	1230	Jul 14 1990
MAXIMUM PEAK STAGE			2.22	Oct 23	4.50	Jul 14 1990
ANNUAL RUNOFF (AC-FT)	681		685		679	
10 PERCENT EXCEEDS	1.1		1.2		1.3	
50 PERCENT EXCEEDS	.56		.62		.50	
90 PERCENT EXCEEDS	.29		.25		.14	

e Estimated

(+) Total rainfall accumulation in inches.

08329720 EMBUDO ARROYO AT ALBUQUERQUE, NM

LOCATION.--Lat 35°06'08", long 106°29'33", in NW$^1/_4$NE$^1/_4$ sec. 14, T.10 N., R.4 E., Bernalillo COunty, Hydrologic Unit 13020203, on left bank of concrete lined channel, approximately 90 ft upstream of Monte Largo Bridge over Embudo Arroyo, between Indian School Rd to the south and Rover St to the north in Albuquerque.

DRAINAGE AREA.--3.8 mi^2.

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder, crest-stage gage and concrete weir control. Elevation of gage is 5,925 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. Recording rain gage located in drainage basin, approximately 1 mi upstream. Site used for gathering water-quality data of undeveloped upper drainage basin, which represents undeveloped foothill east of Albuquerque.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
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	.13	.00
8	.00	.00	.00	.00	.00	.01	.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	.14	.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	.14	.02
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.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	.12	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	e.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.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	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.01	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.32	0.05	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.02	0.33	0.02
MEAN	.010	.002	.000	.000	.000	.000	.000	.000	.001	.001	.011	.001
MAX	.14	.03	.00	.00	.00	.01	.00	.00	.02	.02	.14	.02
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.6	.1	.00	.00	.00	.02	.00	.00	.04	.04	.7	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	.004	.001	.000	.000	.000	.001	.000	.000	.001	.002	.009	.000
MAX	.010	.002	.000	.000	.000	.002	.000	.000	.002	.004	.014	.001
(WY)	2001	2001	1999	1999	1999	2000	1999	1999	2000	2000	1999	2001
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002	.000
(WY)	2000	1999	1999	1999	1999	1999	1999	1999	1999	2001	2000	1999

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	0.70		0.77			
ANNUAL MEAN	.002		.002		.001	
HIGHEST ANNUAL MEAN					.002	2001
LOWEST ANNUAL MEAN					.001	2000
HIGHEST DAILY MEAN	.14	Oct 12	.14	Oct 12	.29	Aug 3 1999
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1998
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 1 1998
MAXIMUM PEAK FLOW			12	Aug 14	12	Aug 14 2001
MAXIMUM PEAK STAGE			3.24	Aug 14	3.24	Aug 14 2001
ANNUAL RUNOFF (AC-FT)	1.4		1.5		1.1	
10 PERCENT EXCEEDS	.00		.00		.00	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated

08329835 NORTH FLOODWAY CHANNEL AT ALBUQUERQUE, NM

LOCATION.--Lat 35°07'03", long 106°36'42", in SE$^1/_4$ 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 Boulevard. NE and 3,000 ft downstream from confluence of Campus Wash and Embudo Arroyo in Albuquerque.

DRAINAGE AREA.--40.0 mi^2.

PERIOD OF RECORD.--May 1982 to September 1999 year (seasonal records). October 1999 to current year.

GAGE.--Water-stage recorder and recording tipping bucket raingage with 0.01-inch increment, and concrete-lined channel. Elevation of gage is 5,110 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for those estimated, which are poor. Prior to water year 2001 some minor streamflow may exist on days where daily mean discharges have been recorded as zero due to the sensitivity limits of the streamflow monitoring equipment. See tabulation below for monthly precipitation in inches.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	1.7	2.5	2.6	e2.0	6.0	3.8	1.5	2.4	4.2	6.7	2.1
2	2.7	1.7	2.5	2.9	e2.0	3.6	5.2	1.5	2.2	29	6.0	2.0
3	2.7	4.8	e2.5	e2.5	e2.0	3.4	3.9	1.4	1.8	13	1.9	2.0
4	4.6	40	e2.5	2.7	2.2	2.9	4.0	2.5	2.1	3.1	1.5	3.0
5	3.0	3.2	2.6	e2.5	2.4	3.3	21	2.1	2.2	2.8	17	2.1
6	2.7	2.2	3.1	2.9	2.7	3.0	30	1.7	1.9	2.5	3.7	1.9
7	72	2.3	2.7	2.4	2.4	42	5.2	3.1	5.4	2.5	21	2.2
8	65	2.1	2.4	2.4	5.5	16	e3.0	1.9	3.1	2.6	4.8	2.5
9	5.2	2.2	2.7	11	2.6	4.6	e2.5	7.2	1.7	2.7	6.6	1.8
10	3.0	1.9	2.3	5.1	2.9	4.6	e2.5	2.3	1.7	2.6	4.2	1.8
11	84	13	3.0	3.6	3.5	3.5	e2.0	3.2	1.6	5.5	2.5	2.5
12	164	1.9	4.7	6.5	3.1	3.2	e2.0	2.1	1.4	2.3	2.2	8.9
13	3.9	e2.0	4.0	9.7	3.3	3.2	e2.0	6.6	1.3	8.4	18	23
14	2.6	2.0	2.9	2.9	4.5	2.8	e2.0	19	1.5	25	183	36
15	2.6	2.0	2.8	2.6	3.7	3.1	e2.0	3.5	1.5	3.2	7.0	3.6
16	2.7	1.6	2.7	e2.5	2.8	3.2	e2.0	2.6	1.7	3.5	23	6.4
17	1.7	1.5	2.1	2.6	2.7	6.3	e2.5	3.3	1.4	7.5	3.8	3.1
18	1.3	e1.5	e2.0	e2.5	2.4	3.8	2.3	2.7	1.6	3.1	1.8	3.2
19	1.5	e1.5	e2.5	2.6	2.2	5.7	2.5	25	3.3	3.4	1.5	2.3
20	2.2	e1.5	2.7	2.8	2.8	3.8	2.4	3.1	2.3	6.4	2.8	2.2
21	26	1.5	2.6	2.5	2.7	4.2	2.1	3.3	1.6	21	4.3	2.2
22	21	2.5	e2.5	2.9	2.9	3.8	2.6	2.8	1.4	3.4	4.0	2.4
23	206	148	2.4	3.0	2.6	4.7	2.6	2.8	1.6	3.6	2.2	1.8
24	8.1	2.9	1.8	2.9	2.7	3.8	2.3	2.9	2.3	3.0	1.7	2.8
25	2.1	2.6	2.1	2.9	2.3	3.7	2.1	2.8	19	27	1.7	2.5
26	2.1	2.4	11	3.1	4.6	3.9	2.5	2.7	17	69	1.6	2.4
27	1.4	2.5	13	5.8	8.4	4.2	27	2.5	2.3	4.0	1.8	2.3
28	111	2.4	e3.0	16	46	4.5	11	2.2	1.4	2.2	8.7	2.2
29	2.4	2.7	e2.0	e2.0	---	4.1	1.5	2.5	2.9	1.6	11	2.0
30	1.8	2.2	e2.5	e2.0	---	4.3	1.6	2.6	11	1.8	5.3	1.5
31	1.7	---	2.6	e2.0	---	4.2	---	2.7	---	25	2.5	---
TOTAL	813.5	260.3	100.7	120.4	129.9	173.4	158.1	126.1	102.6	294.9	363.8	134.7
MEAN	26.2	8.68	3.25	3.88	4.64	5.59	5.27	4.07	3.42	9.51	11.7	4.49
MAX	206	148	13	16	46	42	30	25	19	69	183	36
MIN	1.3	1.5	1.8	2.0	2.0	2.8	1.5	1.4	1.3	1.6	1.5	1.5
AC-FT	1610	516	200	239	258	344	314	250	204	585	722	267
(+)	2.83	1.09	0.20	0.18	0.28	0.29	1.15	0.69	0.34	1.16	1.76	0.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	14.1	4.34	1.62	2.26	3.09	8.00	2.66	2.10	4.73	7.13	9.77	2.44
MAX	26.2	8.68	3.25	3.88	4.64	10.4	5.27	4.07	6.05	9.51	11.7	4.49
(WY)	2001	2001	2001	2001	2001	2000	2001	2001	2000	2001	2001	2001
MIN	2.00	.000	.000	.63	1.59	5.59	.058	.12	3.42	4.74	7.81	.38
(WY)	2000	2000	2000	2000	2000	2001	2000	2000	2001	2000	2000	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL TOTAL	2150.25		2778.4			
ANNUAL MEAN	5.88		7.61		5.22	
HIGHEST ANNUAL MEAN					7.61	2001
LOWEST ANNUAL MEAN					2.84	2000
HIGHEST DAILY MEAN	206	Oct 23	206	Oct 23	206	Oct 23 2000
LOWEST DAILY MEAN	.00	Jan 2	1.3	Oct 18	.00	Oct 1 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 2	1.5	Jun 11	.00	Oct 1 1999
MAXIMUM PEAK FLOW			3400	Aug 14	8180	Jul 9 1988
MAXIMUM PEAK STAGE			7.70	Aug 14	12.10	Jul 9 1988
ANNUAL RUNOFF (AC-FT)	4270		5510		3780	
10 PERCENT EXCEEDS	8.3		13		8.1	
50 PERCENT EXCEEDS	.00		2.7		1.8	
90 PERCENT EXCEEDS	.00		1.7		.00	

e Estimated

(+) Total rainfall accumulation in inches.

08329838 SOUTH FORK HAHN ARROYO AT ALBUQUERQUE, NM

LOCATION.--Lat 35°07'16", long 106°34'04", in $NE^1/_4SE^1/_4$ sec. 1, T.10 N., R.3 E., Bernalillo County, Hydrologic Unit 13020203, on left bank 300 ft above Louisiana Boulevard, 900 ft south of Comanche Rd, and 1,700 ft north of Candelaria Rd, in Albuquerque.

DRAINAGE AREA.--2.03 mi^2.

PERIOD OF RECORD.--June 1978 to December 1983, June 1992 to September 1996 (seasonal records). October 1996 to current year.

REVISED RECORD.--WDR NM-99-1: 1992-1998(M), (mean daily values).

GAGE.--Water-stage recorder and recording tipping bucket raingage with 0.01 inch increment, and concrete lined channel. Elevation of gage is 5,300 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to 1983 at site 300 ft downstream on Louisiana Boulevard bridge, at different datum.

REMARKS.--Records good except for those estimated, which are fair. Some minor streamflow may exist on days where daily mean discharges have been recorded as zero due to the sensitivity limits of the streamflow monitoring equipment. Recording rain gage at station. See tabulation below for monthly precipitation in inches.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.00	.02	.00	e.05	.25	.10	.12	.12	.33	.18	.00
2	.05	.04	.00	.00	.07	.21	.04	.13	.00	.81	.21	.03
3	.05	.16	.02	.03	.04	.06	.04	.12	.08	.17	.09	.07
4	.23	1.3	.02	.00	.05	.04	.04	.12	.12	.07	.15	.14
5	.08	.13	.02	.00	.09	1.0	.43	.00	.12	.07	.32	.08
6	.05	.00	.02	.00	.03	.05	.79	.08	.12	.07	.10	.10
7	2.6	.00	.02	.00	.00	2.1	.02	.12	.41	.00	.37	.06
8	1.8	.03	.02	.00	.01	.27	.02	.12	.08	.03	.08	.00
9	.02	.03	.00	.38	.01	.24	.05	.12	.00	.07	.93	.00
10	.02	.02	.02	.07	e.00	.03	.05	.23	.02	.10	.08	.10
11	2.4	.39	.04	.08	e.00	.00	.07	.12	.06	.08	.00	.07
12	5.6	.01	.06	.37	.00	.32	.13	.00	.06	.06	.25	.59
13	.04	.06	.02	.15	.00	.44	.14	.00	.06	1.1	.93	.53
14	.00	.07	.02	.05	.09	.50	.00	.53	.06	1.7	8.4	9.3
15	.00	.04	.03	.04	.03	.00	.00	.12	.06	.02	1.2	.05
16	.08	.02	.00	.04	.03	.25	.17	.12	.03	.06	2.8	.02
17	.05	.08	.00	.05	.02	.80	.13	.12	.05	.26	.16	.09
18	.06	.07	.09	e.01	.04	.00	.15	.23	.06	.05	.00	.06
19	.02	.00	.07	e.01	.04	.00	.13	1.3	.10	.08	.05	.06
20	.01	.06	.00	e.02	.30	.00	.18	.01	.12	.48	.11	.06
21	1.3	.02	.00	e.02	.61	.19	.00	.09	.06	.62	.08	.07
22	.42	.02	.00	e.02	.18	.08	.13	.07	.06	.03	.07	.00
23	6.6	4.5	.00	.00	.89	.03	.23	.04	.00	.92	.10	.08
24	.14	.02	.00	.00	.32	.54	.13	.20	.03	.08	.06	.07
25	.01	.02	.00	.01	.89	.01	.13	.11	.08	.70	.00	.07
26	.01	.01	.44	.16	1.0	.01	.13	.02	.48	5.7	.02	.10
27	.00	.02	.25	.23	.28	.01	1.1	.00	.07	.12	.07	.07
28	4.4	.06	.01	1.0	1.7	.01	.12	.20	.06	.00	.29	.06
29	.00	.02	.02	.10	---	.17	.08	.12	.08	.03	.15	.00
30	.01	.04	.01	.08	---	.13	.22	.12	.41	.06	.09	.03
31	.00	---	.00	.06	---	.00	---	.12	---	.20	.07	---
TOTAL	26.08	7.24	1.22	2.98	6.77	7.74	4.95	4.80	3.06	14.07	17.41	11.96
MEAN	.84	.24	.039	.096	.24	.25	.16	.15	.10	.45	.56	.40
MAX	6.6	4.5	.44	1.0	1.7	2.1	1.1	1.3	.48	5.7	8.4	9.3
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	52	14	2.4	5.9	13	15	9.8	9.5	6.1	28	35	24
(+)	3.78	1.20	0.29	0.24	0.41	0.27	0.46	0.46	0.36	1.48	2.05	0.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	.48	.20	.13	.13	.16	.37	.29	.22	.40	.81	.78	.21
MAX	.84	.30	.38	.22	.28	.68	.59	.47	1.23	2.34	1.23	.40
(WY)	2001	1997	1998	1997	1998	1998	1997	1999	1999	1997	1997	2001
MIN	.12	.066	.023	.056	.065	.16	.068	.075	.079	.14	.50	.064
(WY)	2000	2000	2000	2000	1999	1997	2000	2000	1998	2000	1998	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL TOTAL	87.29		108.28			
ANNUAL MEAN	.24		.30		.35	
HIGHEST ANNUAL MEAN					.57	1997
LOWEST ANNUAL MEAN					.16	2000
HIGHEST DAILY MEAN	8.0	Aug 18	9.3	Sep 14	31	Jul 28 1997
LOWEST DAILY MEAN	.00	Jan 3	.00	Oct 14	.00	Dec 8 1996
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 2	.00	Feb 7	.00	Jan 2 2000
MAXIMUM PEAK FLOW			703	Sep 14	1300	Jun 16 1999
MAXIMUM PEAK STAGE			3.76	Sep 14	4.72	Jun 16 1999
ANNUAL RUNOFF (AC-FT)	173		215		254	
10 PERCENT EXCEEDS	.22		.53		.48	
50 PERCENT EXCEEDS	.06		.06		.08	
90 PERCENT EXCEEDS	.00		.00		.01	

e Estimated

(+) Total rainfall accumulation in inches.

08329839 NORTH FORK HAHN ARROYO AT ALBUQUERQUE, NM

LOCATION.--Lat 35°07'37", long 106°34'04", in NE$^1/_4$SE$^1/_4$ sec. 1, T.10 N., R.3 E., Bernalillo County, Hydrologic Unit 13020203, on right bank 200 ft above Louisiana Boulevard, 1,150 ft north of Comanche Rd, and 1,450 ft south of Montgomery Boulevard, in Albuquerque.

DRAINAGE AREA.--1.51 mi^2.

PERIOD OF RECORD.--May 1979 to December 1983, June 1992 to September 1996 (seasonal records). October 1996 to current year.

REVISED RECORD.--WDR NM-99-1: 1992-1998(M), (mean daily values).

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.01 inch increment, and concrete lined channel. Elevation of gage is 5,290 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to 1983 at site 200 ft downstream on Louisiana Boulevard bridge, at different datum.

REMARKS.--Records good. Some minor streamflow may exist on days where daily mean discharges have been recorded as zero due to the sensitivity limits of the streamflow monitoring equipment. Recording rain gage at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
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	.22	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.22	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.14	.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	.26	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.39	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	1.1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.63	.78
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.56	.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	1.5	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.36	.00	.00	.00	.00
21	.04	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	.00
22	.17	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00
23	1.2	.61	.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	.57	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.63	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	3.53	0.84	0.00	0.04	0.00	0.14	0.00	1.95	0.00	0.57	1.86	0.78
MEAN	.11	.028	.000	.001	.000	.005	.000	.063	.000	.018	.060	.026
MAX	1.2	.61	.00	.04	.00	.14	.00	1.5	.00	.57	.63	.78
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	7.0	1.7	.00	.08	.00	.3	.00	3.9	.00	1.1	3.7	1.5
(+)	3.71	1.12	0.32	0.29	0.45	0.31	0.39	0.46	0.42	1.32	2.25	0.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	.050	.030	.034	.047	.013	.013	.034	.027	.040	.060	.066	.012
MAX	.11	.12	.16	.19	.062	.047	.15	.063	.079	.21	.10	.033
(WY)	2001	1998	1998	1998	1998	1998	1997	2001	1997	1997	2000	1997
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.021	.000
(WY)	2000	1997	1999	1999	1999	1997	2000	1998	1998	2000	1998	1998

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL TOTAL	9.42		9.71			
ANNUAL MEAN	.026		.027		.036	
HIGHEST ANNUAL MEAN					.060	1997
LOWEST ANNUAL MEAN					.014	2000
HIGHEST DAILY MEAN	1.4	Jun 28	1.5	May 19	2.3	Oct 4 1996
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1996
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 19	.00	Oct 1	.00	Oct 6 1996
MAXIMUM PEAK FLOW			84	May 19	439	Aug 14 1980
MAXIMUM PEAK STAGE			1.50	May 19	1.94	Aug 14 1980
ANNUAL RUNOFF (AC-FT)	19		19		26	
10 PERCENT EXCEEDS	.00		.00		.00	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

(+) Total rainfall accumulation in inches.

08329840 HAHN ARROYO AT ALBUQUERQUE, NM

LOCATION.--Lat 35°07'33", long 106°35'23", in $SE^1/_4NE^1/_4$ sec.2, T.10 N., R.3 E., Bernalillo County, Hydrologic Unit 13020203, 860 ft below San Mateo Boulevard Bridge on right bank, 750 ft north of Comanche Road, and 2,050 ft south of Montgomery Boulevard in Albuquerque.

DRAINAGE AREA.--4.23 mi^2.

PERIOD OF RECORD.--June 1978 to September 1996 (seasonal records). October 1996 to current year.

REVISED RECORD.--WDR NM-99-1: 1992-1998(M), (mean daily values).

GAGE.--Water-stage and recording tipping bucket raingage with 0.01 inch increment and concrete-lined channel. Elevation of gage is 5,190 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to 1992 at site on downstream side of San Mateo Boulevard Bridge, at different datum.

REMARKS.--Records good except for those estimated, which are poor. Some minor streamflow may exist on days where daily mean discharges have been recorded as zero due to the sensitivity limits of the streamflow monitoring equipment. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	.05	1.1	.94	e1.5	2.6	3.9	e1.0	2.1	5.1	3.4	.94
2	1.9	.52	.67	1.5	e1.0	4.9	3.2	e2.0	.80	7.6	2.3	.73
3	1.7	2.4	.85	2.4	e1.0	2.9	2.8	e1.0	1.1	5.3	1.4	2.0
4	3.1	11	1.2	1.7	e1.0	1.6	2.0	e1.0	2.4	2.9	3.4	4.0
5	1.5	2.2	1.6	1.8	e1.0	11	5.5	1.1	1.6	2.5	8.4	2.9
6	.87	1.4	1.0	1.3	e1.0	3.0	12	1.6	1.6	2.5	4.8	2.9
7	9.7	.45	1.1	1.6	1.6	16	2.1	3.4	4.7	1.4	6.7	1.7
8	15	1.1	.99	2.6	3.1	7.0	1.7	2.5	4.0	1.3	4.1	.27
9	1.0	.91	.83	6.5	.71	4.4	1.8	2.8	1.5	3.4	13	.33
10	.82	1.2	.69	4.7	3.2	2.7	2.9	3.9	1.2	3.8	5.4	1.6
11	16	4.8	1.3	3.3	2.6	.58	2.3	2.2	2.2	2.0	3.2	1.6
12	27	.10	1.1	5.3	.67	3.5	2.2	.81	3.0	1.9	5.4	4.5
13	2.4	.16	.66	4.2	.36	4.8	3.2	2.9	1.6	7.6	10	10
14	.07	1.4	.57	2.1	3.0	5.5	.81	9.1	2.0	9.7	27	18
15	.00	1.0	1.8	1.3	1.8	1.6	.70	3.7	1.8	2.4	7.4	3.2
16	.84	.29	.67	3.5	1.3	4.0	2.9	3.3	1.8	4.2	14	1.2
17	1.1	.77	.99	2.8	2.3	12	e1.0	2.4	2.2	7.7	4.4	2.8
18	1.0	.74	.31	e1.5	3.3	.30	e1.0	4.1	3.9	3.2	.99	2.5
19	.89	.45	2.3	e1.5	2.1	.61	e1.0	12	3.6	3.5	2.1	1.8
20	.40	.97	1.8	1.6	4.2	1.5	e1.0	3.0	4.6	4.5	3.9	1.8
21	7.0	.73	2.0	1.0	7.1	4.7	e1.0	2.7	4.2	8.6	3.2	2.2
22	6.7	.69	1.9	1.8	4.6	3.6	e1.0	2.4	6.0	2.8	2.5	.41
23	34	26	1.7	.94	6.6	2.8	e1.0	1.9	2.9	7.9	3.7	1.8
24	3.9	1.1	2.0	2.2	4.9	6.8	e1.0	3.3	4.9	4.5	4.5	1.7
25	.97	1.2	1.3	.83	8.1	1.3	e1.0	2.1	5.7	5.6	.86	2.0
26	.29	.96	7.5	e1.0	9.2	2.6	e1.0	1.0	7.3	20	1.0	2.8
27	.33	.86	6.6	e1.0	4.4	1.4	e6.0	.84	3.3	5.6	3.4	2.5
28	22	1.8	e1.0	e4.0	17	2.2	e2.0	4.3	2.5	2.5	5.3	2.0
29	.83	.97	2.1	e2.0	---	3.0	e1.0	2.5	4.8	1.9	4.4	.35
30	.24	1.7	2.3	e1.5	---	3.8	e2.0	2.5	6.2	3.2	3.3	.59
31	.09	---	1.1	e1.5	---	2.0	---	2.5	---	7.0	2.9	---
TOTAL	163.14	67.92	51.03	69.91	98.64	124.69	71.01	89.85	95.50	152.1	166.35	81.12
MEAN	5.26	2.26	1.65	2.26	3.52	4.02	2.37	2.90	3.18	4.91	5.37	2.70
MAX	34	26	7.5	6.5	17	16	12	12	7.3	20	27	18
MIN	.00	.05	.31	.83	.36	.30	.70	.81	.80	1.3	.86	.27
AC-FT	324	135	101	139	196	247	141	178	189	302	330	161
(+)	4.14	1.34	0.38	0.25	0.57	0.34	0.50	0.78	0.39	1.61	2.54	0.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	2.43	1.25	1.18	1.25	1.49	2.43	1.97	1.39	2.68	3.25	3.61	1.50
MAX	5.26	2.26	2.59	2.26	3.52	4.02	2.39	2.90	6.95	4.95	5.37	2.70
(WY)	2001	2001	1998	2001	2001	2001	1999	2001	1999	1997	2001	2001
MIN	.82	.21	.082	.74	.43	1.00	1.31	.73	.68	1.44	2.01	.63
(WY)	1998	2000	2000	1999	1997	1997	2000	1998	1998	2000	1998	1998

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL TOTAL	699.87		1231.26			
ANNUAL MEAN	1.91		3.37		2.04	
HIGHEST ANNUAL MEAN					3.37	2001
LOWEST ANNUAL MEAN					1.24	2000
HIGHEST DAILY MEAN	34	Oct 23	34	Oct 23	170	Jun 16 1999
LOWEST DAILY MEAN	.00	Jan 2	.00	Oct 15	.00	Dec 15 1996
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 31	.61	Oct 14	.00	Nov 23 1999
MAXIMUM PEAK FLOW			1280	Sep 14	6120	Jun 16 1999
MAXIMUM PEAK STAGE			2.94	Sep 14	5.98	Jun 16 1999
ANNUAL RUNOFF (AC-FT)	1390		2440		1480	
10 PERCENT EXCEEDS	3.5		7.0		4.5	
50 PERCENT EXCEEDS	.97		2.1		.81	
90 PERCENT EXCEEDS	.11		.76		.09	

e Estimated

(+) Total rainfall accumulation in inches.

08329868 BEAR CANYON ARROYO NEAR ALBUQUERQUE,NM

LOCATION.--Lat 35°09'02", long 106°28'07", Bernalillo County, Hydrologic Unit 13020203, in Elena Gallegos Grant, on right bank of the arroyo approximately 0.5 mi east of gated and fenced property of High Resort Development. Elena Gallegos open space land. The gage is approximately 0.25 mi south of the dirt access road which leads to an Albuquerque public water supply reservoir tank.

DRAINAGE AREA.--5.0 mi^2.

PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Water-stage recorder. Rain gage is located approximately $^1/_2$ mi east. Elevation of gage is 6,395 ft above the National Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

NO FLOW SINCE GAGE ESTABLISHED ON SEPTEMBER 30, 1999

08329880 ACADEMY ACRES DRAIN AT ALBUQUERQUE, NM

LOCATION.--Lat 35°09'04", long 106°34'23", in NE$^1/_4$SE$^1/_4$ sec.25, T.11 N., R.3 E., Bernalillo County, Hydrologic Unit 13020203, on left bank of concrete-lined channel, 250 ft north of intersection of Esther Avenue and Burlison Drive, and 0.4 mi north of Academy Road in Albuquerque.

DRAINAGE AREA.--0.124 mi^2.

PERIOD OF RECORD.--June 1976 to current year (seasonal records).

GAGE.--Water-stage recorder and recording tipping bucket raingage with 0.01 inch increment, control for site is a V-notch weir. Elevation of gage is 5,305 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. The basin is primarily urban residential. Some minor streamflow may exist on days where daily mean discharges have been recorded as zero due to the short duration of peak flows. See tabulation below for monthly precipitation in inches. No flow most of time.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 88 ft^3/s, Aug. 3, 1978, gage height, 4.09 ft, from rating curve extended above 24 ft^3/s on basis of slope-area measurement of peak flow and theoretical computations for weir flow; no flow most times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 71 ft^3/s, at 1712 hours Sept. 14, gage height, 3.87 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
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
2	.00	.00	---	---	---	.00	.00	.00	.00	.08	.01	.00
3	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
4	.00	.09	---	---	---	.00	.00	.00	.00	.00	.04	.00
5	.00	.02	---	---	---	.00	.04	.00	.00	.00	.12	.00
6	.00	.00	---	---	---	.00	.04	.00	.00	.00	.00	.00
7	.11	.00	---	---	---	.08	.00	.00	.00	.00	.00	.00
8	.11	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	---	---	---	.00	.00	.00	.00	.00	.58	.00
10	.00	.00	---	---	---	.07	.00	.00	.00	.00	.00	.00
11	.22	.02	---	---	---	.00	.00	.00	.00	.00	.00	.00
12	.30	.00	---	---	---	.00	.00	.00	.00	.00	.01	.00
13	.00	.00	---	---	---	.00	.00	.00	.00	.03	.22	.05
14	.00	.00	---	---	---	.00	.00	.04	.00	.03	1.2	.76
15	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
16	.00	---	---	---	---	.00	.00	.00	.00	.00	.11	.02
17	.00	---	---	---	---	.01	.00	.00	.00	.04	.00	.00
18	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
19	.00	---	---	---	---	.00	.00	.20	.00	.00	.00	.00
20	.00	---	---	---	---	.00	.00	.00	.00	.01	.00	.00
21	.04	---	---	---	---	.00	.00	.00	.00	.03	.01	.00
22	.07	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
23	.61	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
24	.02	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
25	.00	---	---	---	---	.00	.00	.00	.03	.00	.00	.00
26	.00	---	---	---	---	.00	.00	.00	.00	.11	.00	.00
27	.00	---	---	---	---	.00	.05	.00	.00	.00	.00	.00
28	.27	---	---	---	---	.00	.00	.00	.00	.00	.10	.00
29	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.01	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.06	.00	---
TOTAL	1.75	0.13	---	---	---	0.16	0.13	0.24	0.04	0.39	2.40	0.83
MEAN	.056	.009	---	---	---	.005	.004	.008	.001	.013	.077	.028
MAX	.61	.09	---	---	---	.08	.05	.20	.03	.11	1.2	.76
MIN	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
AC-FT	3.5	.3	---	---	---	.3	.3	.5	.08	.8	4.8	1.6
(+)	3.62	1.32	0.33	0.42	0.50	0.39	0.36	0.50	0.13	1.02	3.58	1.08

(+) Total rainfall accumulation in inches.

08329888 LA CUEVA ARROYO TRIBUTARY AT ALBUQUERQUE, NM

LOCATION.--Lat 35°11'22", long 106°29'43", Bernalillo County, Hydrologic Unit 13020203, in Elena Gallegos Grant, on the left bank of a concrete lined arroyo, approximately 100 ft upstream of a box culvert passing under Tramway Blvd., in the extreme northeast corner of Albuquerque city limits. This site is located approximately 0.2 mi south of the old gage site La Cueva Arroyo Tributary at Tramway Blvd. (08329890).

DRAINAGE AREA.--0.5103 mi^2.

PERIOD OF RECORD.--May 1999 to current year.

GAGE.--Water-stage recorder and recording tipping bucket raingage with 0.01 inch increment. Elevation of gage is 6,080 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
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	.01	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.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	.01	.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	.01	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.01
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.14	.02
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.01
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	.01	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00
21	.01	.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	.03	.02	.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	.01	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00
28	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.06	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.04	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.03	.00	---
TOTAL	0.13	0.04	0.00	0.00	0.00	0.00	0.01	0.01	0.05	0.13	0.36	0.04
MEAN	.004	.001	.000	.000	.000	.000	.000	.000	.002	.004	.012	.001
MAX	.03	.02	.00	.00	.00	.00	.01	.01	.04	.05	.14	.02
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.3	.08	.00	.00	.00	.00	.02	.02	.1	.3	.7	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	.002	.001	.000	.000	.000	.001	.000	.000	.001	.003	.006	.001
MAX	.004	.001	.000	.000	.000	.001	.000	.000	.002	.004	.012	.001
(WY)	2001	2001	2000	2000	2000	2000	2001	2001	2001	2001	2001	2001
MIN	.001	.000	.000	.000	.000	.000	.000	.000	.000	.002	.001	.000
(WY)	2000	2000	2000	2000	2000	2001	2000	2000	2000	2000	2000	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL TOTAL	0.30		0.77			
ANNUAL MEAN	.001		.002		.001	
HIGHEST ANNUAL MEAN					.002	2001
LOWEST ANNUAL MEAN					.000	2000
HIGHEST DAILY MEAN	.04	Jul 8	.14	Aug 14	.14	Aug 14 2001
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 13	.00	Oct 1 1999
MAXIMUM PEAK FLOW			12	Aug 14	12	Aug 14 2001
MAXIMUM PEAK STAGE			1.56	Aug 14	1.56	Aug 14 2001
ANNUAL RUNOFF (AC-FT)	.6		1.5		.9	
10 PERCENT EXCEEDS	.00		.00		.00	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM

LOCATION.--Lat 35°11'53", long 106°35'59", Bernalillo County, Hydrologic Unit 13020203, in Elena Gallegos Grant, on left bank 0.5 mi upstream from Edith Boulevard, 1.1 mi upstream from mouth, and 1.2 mi northeast of Alameda.

DRAINAGE AREA.--87.9 mi^2.

PERIOD OF RECORD.--July 1968 to September 1989 (seasonal records). October 1989 to current year.

GAGE.--Water-stage recorder with satellite telemetry 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.--Water-discharge records good except for those estimated, which are poor. For water years 1997-99, low-flow values of 15 ft^3/s or less were obtained from gaging station (08329914), 1000 ft downstream. Prior to water year 1997, any discharges below 15 ft^3/s were reported as "zero flow" in the mean daily values tables. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.2	2.6	e2.5	e1.0	1.7	2.0	1.7	1.7	3.1	8.8	1.9
2	2.1	2.2	3.2	e2.5	e1.0	2.0	2.9	1.5	1.3	22	7.0	1.7
3	1.5	5.7	2.4	e2.5	e1.0	1.2	3.0	2.5	1.2	35	2.8	1.8
4	1.6	64	e2.5	e2.5	.97	1.3	2.6	3.5	1.2	3.7	1.7	1.9
5	.91	4.5	2.9	e2.0	.45	2.3	9.8	3.2	1.0	3.1	53	2.2
6	.74	4.8	3.1	2.1	.66	1.4	46	2.7	.92	2.5	4.0	1.9
7	56	4.3	3.0	2.0	1.1	46	2.7	3.5	.93	2.1	18	1.8
8	117	4.5	2.4	e2.0	5.5	16	1.6	3.8	9.1	1.8	13	1.6
9	2.7	3.9	2.1	13	2.3	3.1	1.3	9.9	1.7	1.9	60	1.3
10	1.7	3.1	2.0	3.1	1.5	9.7	1.1	4.3	1.3	1.7	5.6	1.5
11	94	20	2.6	2.2	2.0	1.9	.74	e5.0	1.5	4.4	4.3	1.6
12	269	3.0	3.0	2.8	2.0	2.1	.62	e3.0	2.2	3.2	3.0	5.3
13	2.8	2.9	5.0	12	2.2	2.2	.72	e8.0	2.1	9.2	45	46
14	1.6	e3.0	1.9	e2.0	3.3	2.4	.79	e25	2.2	38	360	140
15	1.7	e3.0	1.7	e2.0	2.4	1.9	.69	e5.0	2.1	2.0	11	6.9
16	1.8	2.6	e2.0	e2.0	1.9	1.7	.77	e3.0	2.2	2.6	59	7.7
17	1.8	2.1	e2.0	e2.0	1.6	6.8	1.4	e3.0	2.2	12	15	4.0
18	1.3	2.4	e2.0	e2.0	1.4	2.5	1.3	e3.0	2.4	3.0	7.4	2.9
19	1.3	2.4	e2.0	e2.0	1.6	3.4	1.9	e35	4.2	2.4	5.5	4.3
20	1.3	2.4	e2.0	e2.0	1.7	2.5	1.7	e3.0	3.6	3.3	6.2	2.1
21	26	2.1	e2.0	e2.0	2.2	2.3	1.1	e3.0	1.7	36	6.6	1.9
22	32	3.0	e2.5	e2.0	1.9	2.1	1.1	3.0	2.0	3.0	7.1	1.9
23	336	223	e2.5	1.9	2.6	2.4	1.5	3.1	2.0	5.0	5.7	1.9
24	29	3.1	e2.5	1.4	1.5	3.4	1.5	3.2	2.2	3.3	4.0	2.0
25	3.2	3.0	e2.5	1.7	1.9	1.8	1.4	3.3	18	26	3.2	2.2
26	2.1	3.4	19	e1.5	3.6	2.0	1.5	3.0	25	92	3.1	2.1
27	1.7	5.1	20	6.1	4.8	2.0	11	2.7	3.0	8.4	3.6	2.1
28	186	3.7	e3.0	22	62	1.8	37	2.5	2.0	e2.5	17	2.0
29	e4.0	4.0	e2.5	.92	---	1.7	1.9	2.4	2.8	e2.5	15	2.3
30	e2.5	3.4	e2.5	e1.0	---	1.9	3.3	2.0	13	e2.5	12	2.0
31	2.4	---	e2.5	e1.0	---	1.9	---	1.9	---	49	2.6	---
TOTAL	1187.45	396.8	111.9	106.72	116.08	135.4	144.93	159.7	116.75	387.2	770.2	258.8
MEAN	38.3	13.2	3.61	3.44	4.15	4.37	4.83	5.15	3.89	12.5	24.8	8.63
MAX	336	223	20	22	62	46	46	35	25	92	360	140
MIN	.74	2.1	1.7	.92	.45	1.2	.62	1.5	.92	1.7	1.7	1.3
AC-FT	2360	787	222	212	230	269	287	317	232	768	1530	513

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2001, BY WATER YEAR (WY)

MEAN	12.7	8.97	5.20	8.47	4.42	8.31	7.42	9.75	9.38	27.7	37.3	16.1
MAX	38.3	24.5	28.5	39.9	19.7	21.3	42.9	41.2	27.6	75.0	53.4	40.1
(WY)	2001	1995	1994	1995	1993	2000	1997	1994	1996	1991	1994	1991
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	8.24	14.1	2.15
(WY)	1996	1990	1990	1990	1991	1996	1991	1996	1995	1995	1995	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1990 - 2001	
ANNUAL TOTAL	4380.80		3891.93			
ANNUAL MEAN	12.0		10.7		13.1	
HIGHEST ANNUAL MEAN					21.6	1994
LOWEST ANNUAL MEAN					7.01	1998
HIGHEST DAILY MEAN	336	Oct 23	360	Aug 14	961	Jul 14 1990
LOWEST DAILY MEAN	.10	Jan 7	.45	Feb 5	.00	Oct 1 1989
ANNUAL SEVEN-DAY MINIMUM	.17	Jan 4	.78	Apr 10	.00	Oct 5 1989
MAXIMUM PEAK FLOW			3860	Aug 14	12300	Aug 14 1980
MAXIMUM PEAK STAGE			5.70	Aug 14	10.40	Aug 14 1980
ANNUAL RUNOFF (AC-FT)	8690		7720		9470	
10 PERCENT EXCEEDS	19		18		22	
50 PERCENT EXCEEDS	1.5		2.5		.31	
90 PERCENT EXCEEDS	.37		1.4		.00	

e Estimated

08329911 NORTH CAMINO ARROYO AT SUNSET HILLS IN ALBUQUERQUE, NM

LOCATION.--Lat 35°11'40", long 106°31'57", Bernalillo County, Hydrologic Unit 13020203, in Elena Gallegos Grant, on right bank of concrete lined arroyo, 10 feet above Holbrook Ave. Bridge over North Camino Arroyo. This is located approximately 100 feet north of intersection of Holbrook Ave. and Elena Drive, and 1.3 miles north of Paseo del Norte, on the northern edge of Albuquerque, NM.

DRAINAGE AREA.--2.06 mi^2.

PERIOD OF RECORD.--August 1997 to current year (seasonal records).

GAGE.--Water-stage recorder. Elevation of gage is 5,645 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39 ft^3/s, at 1955 hours, July 23, 2001, gage height, 1.38 ft, from step-forward analysis of concrete lined stream channel, no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 39 ft^3/s, at 2155 hours, July 23, gage height, 1.38 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	.00	.00	.00	.01	.00	.00
2	.00	.00	---	---	---	---	.00	.00	.00	.19	.01	.00
3	.00	.64	---	---	---	---	.00	.00	.00	.24	.00	.00
4	.00	1.2	---	---	---	---	.00	.00	.00	.01	.01	.00
5	.00	.99	---	---	---	---	.05	.00	.00	.00	.02	.00
6	.00	.53	---	---	---	---	.07	.00	.00	.00	.00	.00
7	.11	1.1	---	---	---	---	.00	.00	.00	.00	.02	.00
8	.19	.52	---	---	---	---	.00	.00	.00	.00	.00	.00
9	.00	.00	---	---	---	---	.00	.00	.00	.00	.08	.00
10	.00	.00	---	---	---	.06	.00	.00	.00	.00	.00	.00
11	.28	.63	---	---	---	.01	.00	.00	.00	.00	.00	.00
12	1.2	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
13	.33	.00	---	---	---	.00	.00	.01	.00	.14	.09	.35
14	.00	.00	---	---	---	.00	.00	.00	.00	1.8	.57	.39
15	.00	.00	---	---	---	.00	.00	.00	.00	.00	.22	.02
16	.00	---	---	---	---	.00	.00	.00	.00	.00	.27	.00
17	.00	---	---	---	---	.02	.00	.00	.00	.66	.00	.00
18	.00	---	---	---	---	.00	.03	.00	.00	.00	.00	.00
19	.00	---	---	---	---	.00	.00	.09	.00	.00	.00	.00
20	.00	---	---	---	---	.00	.00	.01	.00	.10	.11	.00
21	.13	---	---	---	---	.00	.00	.00	.00	.49	.02	.00
22	.02	---	---	---	---	.00	.01	.00	.00	.00	.09	.00
23	1.7	---	---	---	---	.00	.00	.00	.00	.72	.00	.00
24	e.30	---	---	---	---	.00	.00	.00	.00	.08	.00	.00
25	.00	---	---	---	---	.00	.00	.00	.00	1.2	.00	.00
26	.00	---	---	---	---	.00	.00	.00	.00	1.5	.00	.00
27	.00	---	---	---	---	.00	.03	.00	.00	.40	.00	.00
28	2.7	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
29	1.2	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
30	.22	---	---	---	---	.00	.00	.00	.06	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.22	.00	---
TOTAL	8.38	5.61	---	---	---	0.09	0.19	0.11	0.06	7.76	1.51	0.76
MEAN	.27	.37	---	---	---	.004	.006	.004	.002	.25	.049	.025
MAX	2.7	1.2	---	---	---	.06	.07	.09	.06	1.8	.57	.39
MIN	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
AC-FT	17	11	---	---	---	.2	.4	.2	.1	15	3.0	1.5

e Estimated

08329935 ARROYO 19A AT ALBUQUERQUE, NM

LOCATION.--Lat 35°09'24", long 106°43'50", in NE$^1/_4$NE$^1/_4$ 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 mi^2.

PERIOD OF RECORD.--June 1977 to current year (seasonal records).

GAGE.--Water-stage recorder and recording tipping bucket raingage with 0.01 inch increment, the control at the site is a Parshall flume. Elevation of gage is 5,341 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, 234 ft^3/s, Aug. 2, 1999, gage height, 2.93 ft, on basis of 2 slope-area measurements of peak flow needed to extend rating beyond flume capacity. no flow most time.

EXTREMES FOR CURRENT YEAR.--No flow this year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
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	.00
7	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
15	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
16	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
17	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
19	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
20	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
21	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
22	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
23	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
25	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
26	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
27	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
29	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
30	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	---	---	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	.000	.000	---	---	---	.000	.000	.000	.000	.000	.000	.000
MAX	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
MIN	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
(+)	2.78	1.30	0.22	0.30	0.31	0.26	0.42	0.41	0.08	1.54	0.72	0.11

(+) Total rainfall accumulation in inches.

083299375 MARIPOSA DIVERSION OF SAN ANTONIO ARROYO AT ALBUQUERQUE

LOCATION.--Lat 35°08'24", long 106°42'17", in SE$^1/_4$ of NE$^1/_4$ of sec. 35, T.11 N., R.2 E., Bernalillo County, Hydrologic Unit 13020203, 1,500 ft upstream of the San Antonio underpass at Coors Blvd. on Albuquerque's west side, 1.1 mi north of Interstate 25 and Coors intersection.

DRAINAGE AREA.--30.5 mi^2.

PERIOD OF RECORD.--Summer 1993 to October 1999, only recorded flow events during water-quality sampling. October 1999 to current year.

GAGE.--Water-stage recorder and crest-stage gage referenced to outside staff gage. Elevation of gage is 5,100 ft above the National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. No flows will occur until significant precipitation falls in the watershed.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.07	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12	.11	.00
3	.00	.02	.00	.00	.00	.00	.00	.00	.00	.66	.00	.00
4	.00	1.7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.29	.00	.00	.00	.00	.00	.00	.00	.00	.32	.00
6	.00	.06	.00	.00	.00	.00	.23	.00	.00	.00	.07	.00
7	.12	.12	.00	.00	.00	.45	.00	.00	.00	.00	.00	.00
8	.91	.05	.00	.00	.00	.44	.00	.00	.00	.00	.00	.00
9	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.76	.11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	6.4	.05	.00	.06	.00	.00	.00	.00	.00	.00	.00	.00
13	.35	.00	.00	.09	.00	.00	.00	.13	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.1	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	.08	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.12	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.42	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	5.2	4.7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	2.0	.30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.16	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.02	.00	.33	.00	.00	.00	.00	.00	.00	1.5	.00	.00
27	.00	.00	.01	.42	.00	.00	.05	.00	.00	1.2	.00	.00
28	.97	.00	.00	.24	.06	.00	.20	.00	.00	.02	.00	.00
29	.19	.00	.00	.03	---	.00	.00	.00	.00	.00	.07	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.06	.00	---
TOTAL	17.10	7.45	0.34	0.84	0.06	0.90	0.48	0.26	0.00	4.15	1.86	0.00
MEAN	.55	.25	.011	.027	.002	.029	.016	.008	.000	.13	.060	.000
MAX	6.4	4.7	.33	.42	.06	.45	.23	.13	.00	1.5	1.1	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	34	15	.7	1.7	.1	1.8	1.0	.5	.00	8.2	3.7	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	.29	.12	.006	.014	.001	.13	.012	.004	.15	.14	.11	.000
MAX	.55	.25	.011	.027	.002	.23	.016	.008	.30	.14	.17	.000
(WY)	2001	2001	2001	2001	2001	2000	2001	2001	2000	2000	2000	2000
MIN	.019	.000	.001	.000	.000	.029	.008	.000	.000	.13	.060	.000
(WY)	2000	2000	2000	2000	2000	2001	2000	2000	2001	2001	2001	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001		
ANNUAL TOTAL	50.84		33.44				
ANNUAL MEAN	.14		.092		.082		
HIGHEST ANNUAL MEAN					.092		2001
LOWEST ANNUAL MEAN					.073		2000
HIGHEST DAILY MEAN	6.4	Oct 12	6.4	Oct 12	6.4	Oct 12	2000
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1	1999
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 14	.00	Oct 1	1999
MAXIMUM PEAK FLOW			29	Oct 23	251	Aug 2	1999
MAXIMUM PEAK STAGE			2.23	Oct 23	4.80	Aug 2	1999
ANNUAL RUNOFF (AC-FT)	101		66		59		
10 PERCENT EXCEEDS	.05		.07		.02		
50 PERCENT EXCEEDS	.00		.00		.00		
90 PERCENT EXCEEDS	.00		.00		.00		

08329938 LADERA ARROYO AT ALBUQUERQUE, NM

LOCATION.--Lat 35°06'56", long 106°44'48", in Town of Atrisco Land Grant, Bernalillo County, Hydrologic Unit 13020203, on left bank, 0.25 mi northwest of City of Albuquerque water storage tank, on dirt road extension of 98th Street, and 2.3 mi west of North Coors Road in Albuquerque.

DRAINAGE AREA.--0.34 mi^2.

PERIOD OF RECORD.--May 1981 to current year (seasonal records).

GAGE.--Water-stage recorder and recording tipping bucket raingage with 0.01-inch increment. Elevation of gage is 5,312 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, 195 ft^3/s, Aug. 2, 1999 gage height, 4.12 ft, from slope-area indirect measurement; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 3.9 ft^3/s, Oct. 23, at 1916 hours, gage height, 2.38 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
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	.00
7	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
12	.02	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
15	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
16	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
17	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
19	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
20	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
21	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
22	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
23	.02	---	---	---	---	.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	0.04	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	.001	.000	---	---	---	.000	.000	.000	.000	.000	.000	.000
MAX	.02	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
MIN	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
AC-FT	.08	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00

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 mi^2, approximately, including 2,940 mi^2 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 with satellite telemetry. 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 fair. 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.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	625	929	544	637	725	719	1120	1200	2520	815	545	645
2	627	915	566	639	689	704	1110	1410	2340	789	545	611
3	601	769	589	633	640	714	1190	1420	2250	882	524	597
4	587	615	595	628	609	722	1330	1560	2200	763	518	554
5	600	516	612	617	604	721	1490	1570	1780	676	525	482
6	579	483	606	590	632	664	1640	1490	1790	634	539	469
7	553	472	586	581	669	671	1300	1480	1980	612	452	e520
8	809	475	541	580	684	708	1220	1730	2000	650	457	e527
9	571	460	515	595	706	649	1230	1800	1740	679	468	e555
10	482	434	506	621	700	579	952	1600	1630	633	596	564
11	418	431	514	608	702	570	892	1530	1630	641	618	578
12	908	426	517	613	698	574	824	1550	1940	633	756	565
13	567	433	519	652	687	632	730	1600	1760	589	676	626
14	431	428	624	624	696	604	634	1660	1490	605	1090	603
15	425	418	674	614	732	515	612	2130	1300	621	851	739
16	406	410	645	616	810	534	621	2410	1210	668	519	e554
17	480	411	633	618	799	518	601	2460	1060	652	471	549
18	394	412	628	618	792	516	676	2600	1010	633	450	484
19	355	452	581	635	788	518	738	2690	881	571	438	523
20	336	460	519	616	782	549	767	2710	919	551	422	510
21	340	462	459	595	776	563	897	2690	902	609	412	490
22	417	455	485	597	778	571	1060	4730	892	598	424	481
23	611	716	549	603	772	583	1130	4760	938	595	416	488
24	1180	522	563	608	782	703	965	2480	922	573	432	482
25	705	542	569	614	819	782	840	2360	924	569	487	433
26	707	585	585	648	822	810	832	e2420	945	607	507	449
27	848	588	634	673	861	948	838	e2400	1100	785	525	470
28	844	587	669	689	952	1070	858	e2530	878	708	e540	496
29	725	581	669	684	---	1090	848	e2600	823	650	704	488
30	787	546	655	692	---	1190	830	2510	813	584	1050	498
31	947	---	641	730	---	1170	---	2720	---	541	677	---
TOTAL	18865	15933	17992	19468	20706	21861	28775	68800	42567	20116	17634	16030
MEAN	609	531	580	628	740	705	959	2219	1419	649	569	534
MAX	1180	929	674	730	952	1190	1640	4760	2520	882	1090	739
MIN	336	410	459	580	604	515	601	1200	813	541	412	433
AC-FT	37420	31600	35690	38610	41070	43360	57080	136500	84430	39900	34980	31800
(+)	9320	3360	2600	2020	1300	10220	15110	16890	16400	18220	18240	16820

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2001, BY WATER YEAR (WY)

MEAN	495	959	1020	947	1060	1278	2021	3208	2887	1515	828	618
MAX	1802	2302	2276	2159	3562	2790	6343	6203	6113	5439	3452	1554
(WY)	1998	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1974 - 2001	
ANNUAL TOTAL	282851		308747			
ANNUAL MEAN	773		846		[a]1403	
HIGHEST ANNUAL MEAN					2486	1987
LOWEST ANNUAL MEAN					356	1977
HIGHEST DAILY MEAN	1500	Jun 3	4760	May 23	8650	Apr 24 1985
LOWEST DAILY MEAN	336	Oct 20	336	Oct 20	.00	May 30 1977
ANNUAL SEVEN-DAY MINIMUM	390	Oct 16	390	Oct 16	.00	May 30 1977
MAXIMUM PEAK FLOW			4970	May 22	[b]25000	Apr 24 1942
MAXIMUM PEAK STAGE			5.83	May 22	7.82	Aug 10 1967
INSTANTANEOUS LOW FLOW			320	Sep 18	147	Jul 6 1996
ANNUAL RUNOFF (AC-FT)	561000	(+) 131000	612400	(+) 130480	1017000	
10 PERCENT EXCEEDS	959		1580		3550	
50 PERCENT EXCEEDS	783		634		858	
90 PERCENT EXCEEDS	519		469		323	

e Estimated

a Average discharge for 33 years (water years 1942-74), 1,440 ft^3/s, 1,043,000 acre-feet, prior to closure of Cochiti Dam.

b From rating curve extended above 13,900 ft^3/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.

08330000 RIO GRANDE AT ALBUQUERQUE, NM--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: May 1969 to September 1969 (partial-record station), October 1969 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler.

EXTREMES FOR PERIOD OF DAILY RECORD.--
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.--
SEDIMENT CONCENTRATION: Maximum daily mean, 12,500 mg/L, Oct. 25; minimum daily mean, 54 mg/L, June 27.
SEDIMENT LOAD: Maximum daily, 36,800 tons, Oct. 24; minimum daily, 80 tons, Nov. 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)
OCT												
25...	1036	11.5	13.0	643	736	4500	494	8.6	94	7.7	--	--
NOV												
27...	1100	4.5	13.0	643	593	26	436	12.6	116	7.8	--	--
DEC												
29...	1146	--	--	--	666	--	--	--	--	--	--	143
29...	1256	1.0	7.0	647	673	17	454	13.8	115	8.0	--	--
JAN												
22...	1116	--	--	--	599	--	--	--	--	--	--	107
22...	1215	.5	6.0	647	606	3.1	454	13.3	109	8.1	--	--
FEB												
27...	1126	5.0	7.0	641	868	6.5	435	11.1	104	7.7	--	--
27...	1138	--	--	--	868	--	--	--	--	--	47	161
MAR												
16...	1035	--	--	--	536	--	--	--	--	--	23	217
16...	1120	6.0	16.0	634	542	22	448	11.3	109	7.9	--	--
APR												
09...	1127	9.5	11.0	637	1210	180	353	8.9	93	7.8	--	427
MAY												
08...	1050	15.0	18.0	646	1890	72	272	8.3	97	7.6	--	669
JUN												
12...	1040	19.0	21.0	637	1970	81	218	7.3	95	7.7	--	287
JUL												
13...	0855	22.0	23.0	644	621	40	286	7.2	98	7.9	--	392
AUG												
07...	0837	20.0	21.0	645	473	20	339	7.5	98	7.9	82	103
SEP												
18...	1033	17.0	18.0	641	562	71	376	8.1	100	7.7	--	209

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	STREAM WIDTH (FT) (00004)	STREAM DEPTH, MEAN (FT) (00064)	STREAM VELOCITY, MEAN (F/S) (00055)	TEMPERATURE WATER (DEG C) (00010)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	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)
OCT													
03...	1220	607	264	1.3	1.75	16.5	85	--	--	71	77	96	100
NOV													
09...	1209	465	255	1.1	1.66	10.0	106	--	--	72	78	94	100
DEC													
11...	1055	508	259	1.1	1.73	3.0	72	--	--	58	82	--	100
JAN													
11...	1148	608	266	1.2	1.86	5.0	69	--	--	43	53	84	100
FEB													
27...	1057	868	266	1.6	2.61	5.0	133	--	--	45	57	82	100
MAR													
16...	1045	542	263	1.2	1.74	6.0	65	--	--	57	67	88	100
APR													
09...	1254	1210	271	1.2	2.27	9.5	295	--	--	58	71	83	100
MAY													
08...	1405	1890	308	2.1	3.00	15.0	445	--	--	58	67	75	88
JUN													
12...	1221	1970	305	2.2	2.91	19.0	692	--	--	77	84	89	99
JUL													
13...	0848	621	251	1.3	1.92	22.0	279	92	100	--	--	--	--
AUG													
07...	0837	473	243	1.1	1.76	20.0	103	82	100	--	--	--	--
SEP													
18...	1132	562	250	1.2	1.85	17.0	125	--	--	83	87	95	100

08330000 RIO GRANDE AT ALBUQUERQUE, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
OCT 03...	--
NOV 09...	--
DEC 11...	--
JAN 11...	--
FEB 27...	--
MAR 16...	--
APR 09...	--
MAY 08...	100
JUN 12...	100
JUL 13...	--
AUG 07...	--
SEP 18...	--

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)	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)
OCT 03...	1220	607	264	1.3	1.75	16.5	.0	1	10	57	89	97	99
NOV 09...	1209	465	255	1.1	1.66	10.0	--	.0	8	55	88	96	99
DEC 11...	1055	508	259	1.1	1.73	3.0	--	.0	8	59	90	98	99
JAN 11...	1148	608	266	1.2	1.86	5.0	--	.0	6	52	85	95	99
FEB 27...	1057	868	266	1.6	2.61	5.0	1	16	31	53	89	95	97
MAR 16...	1045	542	263	1.2	1.74	6.0	.0	1	10	59	88	95	97
APR 09...	1254	1210	271	1.2	2.27	9.5	1	3	11	53	77	85	88
MAY 08...	1405	1890	308	2.1	3.00	15.0	3	8	20	69	92	98	99
JUN 12...	1221	1970	305	2.2	2.91	19.0	.0	1	14	61	91	98	100
JUL 13...	0848	621	251	1.3	1.92	20.0	--	.0	6	53	87	97	99
AUG 07...	0837	473	243	1.1	1.76	20.0	--	.0	8	60	91	97	99
SEP 18...	1132	562	250	1.2	1.85	17.0	.0	1	7	54	86	96	99

08330000 RIO GRANDE AT ALBUQUERQUE, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)
OCT 03...	100	--
NOV 09...	100	--
DEC 11...	100	--
JAN 11...	100	--
FEB 27...	97	100
MAR 16...	98	100
APR 09...	91	100
MAY 08...	100	--
JUN 12...	--	--
JUL 13...	100	--
AUG 07...	100	--
SEP 18...	100	--

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	410	692	144	361	147	216	123	211	61	119	112	222
2	204	346	310	767	162	247	113	195	68	126	89	171
3	168	277	297	656	178	284	119	204	65	112	75	144
4	244	390	146	248	183	295	118	200	60	99	74	145
5	250	408	177	249	155	256	121	201	59	96	75	146
6	189	294	134	174	152	248	119	190	62	105	91	162
7	120	179	124	159	128	202	93	147	64	115	72	132
8	267	600	130	166	148	216	89	139	65	120	93	183
9	218	336	122	153	114	159	86	138	74	141	85	149
10	189	247	90	106	104	143	95	160	89	167	74	117
11	204	231	112	131	102	142	92	152	84	159	78	120
12	855	2240	100	115	103	144	96	160	75	142	98	151
13	557	843	116	136	135	191	95	168	87	161	135	235
14	1130	1310	118	136	193	329	79	133	109	204	145	240
15	483	555	71	80	234	425	73	121	89	176	91	126
16	447	490	122	135	215	375	67	111	104	227	102	147
17	437	574	117	131	216	368	67	112	119	257	68	95
18	260	277	112	126	204	346	89	150	107	230	89	124
19	250	240	139	170	173	273	102	176	109	233	58	81
20	289	262	122	152	148	208	92	153	99	210	75	114
21	464	427	117	146	120	150	80	129	85	177	92	141
22	575	669	116	143	132	176	94	152	100	210	122	188
23	1090	2810	387	912	149	220	70	115	106	221	133	209
24	12000	36800	588	832	147	224	65	106	99	209	227	440
25	12500	23800	238	353	125	192	71	118	112	247	272	574
26	5270	9940	318	502	115	182	72	126	84	185	320	702
27	4590	10500	171	272	160	275	54	98	127	299	581	1490
28	4730	11500	175	277	173	313	63	117	143	367	4950	14300
29	1800	3600	163	256	157	283	70	130	---	---	3740	11100
30	621	1330	163	241	167	296	60	112	---	---	1630	5220
31	1110	2870	---	---	135	233	57	113	---	---	1570	5010
TOTAL	---	115037	---	8285	---	7611	---	4537	---	5114	---	42378

08330000 RIO GRANDE AT ALBUQUERQUE, NM--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1100	3330	1720	6010	1400	9530	384	852	699	1070	1090	1910
2	862	2580	2380	9050	1020	6500	250	537	319	477	584	963
3	907	2910	2560	9790	765	4660	408	976	172	245	550	888
4	901	3250	2510	10600	642	3810	802	1650	183	259	537	810
5	1240	4980	2890	12300	386	1860	468	857	328	467	304	400
6	1300	5740	1840	7420	440	2130	284	495	395	622	217	276
7	1080	3810	671	2690	501	2680	149	250	96	120	226	e317
8	1120	3670	726	3400	553	3010	125	225	162	205	252	e359
9	633	2100	1760	8620	405	1940	193	357	193	247	271	e406
10	567	1510	1060	4780	279	1230	121	209	1000	1610	290	441
11	466	1120	861	3560	260	1140	149	260	1090	1830	293	460
12	465	1050	1030	4290	265	1410	167	291	1770	3640	292	446
13	436	854	941	4070	207	992	201	324	1990	3740	317	542
14	1750	2970	1230	5490	145	585	138	238	7250	24000	319	522
15	497	822	897	5180	109	383	215	364	8690	22700	411	827
16	332	559	802	5220	134	438	178	329	1860	2640	348	e520
17	260	424	1160	7670	148	422	197	349	924	1190	318	473
18	400	733	1330	9400	197	539	305	531	609	750	256	335
19	450	900	1450	10600	229	550	134	210	605	722	239	338
20	423	880	1560	11400	482	1400	97	145	252	294	225	310
21	605	1490	1530	11200	1770	4360	241	404	385	431	203	269
22	705	2020	2730	35100	604	1460	232	375	370	423	194	252
23	600	1840	2030	26100	704	1800	252	409	349	394	230	304
24	432	1130	506	3610	401	1000	155	240	310	362	196	257
25	614	1390	704	4500	198	498	146	225	348	461	154	180
26	840	1890	698	e4560	250	644	375	638	435	594	171	208
27	977	2210	730	e4730	3080	9550	474	1040	326	464	160	202
28	907	2110	820	e5600	1160	2770	425	816	271	e395	162	216
29	847	1940	1130	e7940	562	1250	346	617	682	1430	165	218
30	857	1920	1690	11600	389	857	472	742	2310	7040	171	230
31	---	---	1780	13100	---	---	1920	2830	2260	4160	---	---
TOTAL	---	62132	---	269580	---	69398	---	17785	---	82982	---	13879
YEAR		698718										

e Estimated

08330540 TRAMWAY FLOODWAY CHANNEL AT ALBUQUERQUE, NM

LOCATION.--Lat 35°04'42", long 106°29'49", Bernalillo County, Hydrologic Unit 13020203, on right bank 300 ft downstream from Copper Boulevard Bridge, near corner of Tramway and Copper Boulevards NE in Albuquerque.

DRAINAGE AREA.--1.60 mi^2.

PERIOD OF RECORD.--July 1987 to November 2000 (seasonal record). March 2001 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete-lined channel. Recording rain gage at this site since May 2001. Elevation of gage is 5,740 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for those estimated, which are poor. Prior to water 1998, some minor streamflow may have existed on days where daily mean discharges have been recorded as zero due to the sensitivity limits of the streamflow monitoring equipment. Since 1998, all flows above zero are recorded. See tabulation below for monthly precipitation in inches.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,190 ft^3/s, July 9, 1988, gage height, 8.62 ft, from floodmarks, from step-backwater analysis of channel; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 238 ft^3/s, at 1943 hours, Aug. 7, gage height, 2.60 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.17	.00	---	---	---	---	---	.11	.09	.49	3.1	.22
2	.10	.00	---	---	---	---	---	.04	.15	.84	2.5	.26
3	.08	.38	---	---	---	---	e.10	.09	.13	.48	1.6	.29
4	.25	1.3	---	---	---	---	.11	.33	.15	.31	.95	.18
5	.01	.05	---	---	---	---	.73	.08	.12	.34	1.9	.25
6	.04	.01	---	---	---	---	1.5	.03	.12	.35	1.4	.18
7	2.2	.02	---	---	---	---	.14	.09	.27	.35	5.0	.17
8	1.6	.01	---	---	---	---	.10	.09	.17	.31	.55	.12
9	.25	.00	---	---	---	---	.01	.55	.21	.37	2.4	.11
10	.19	.00	---	---	---	---	.10	.16	.20	.22	1.3	.14
11	3.1	.54	---	---	---	---	.10	.11	.28	1.0	2.7	.15
12	4.7	.00	---	---	---	---	.08	.22	.22	.55	1.0	.35
13	.11	.00	---	---	---	---	.11	.70	.28	.68	1.5	.97
14	.04	.00	---	---	---	---	.11	.60	.15	1.6	6.0	2.6
15	.01	.00	---	---	---	---	.14	.21	.19	.58	2.3	.23
16	.02	e.01	---	---	---	---	e.20	.24	.22	.58	2.7	.63
17	.00	---	---	---	---	---	e.10	.20	.30	.95	.37	.27
18	.04	---	---	---	---	---	e.50	.15	.53	1.2	.22	.13
19	.00	---	---	---	---	---	e.10	1.7	.29	.74	.25	.22
20	.05	---	---	---	---	---	e.10	.31	.26	.69	.34	.22
21	1.4	---	---	---	---	---	e.10	.13	.40	1.9	.26	.19
22	.08	---	---	---	---	---	e.20	.15	.36	.84	.27	.15
23	5.2	---	---	---	---	---	e.10	.15	.34	1.0	.32	.25
24	.08	---	---	---	---	---	e.10	.13	.46	1.0	.25	.18
25	.01	---	---	---	---	---	e.10	.13	1.2	4.1	.20	.22
26	.00	---	---	---	---	---	e.10	.11	.83	2.5	.16	.24
27	.00	---	---	---	---	---	e.30	.16	.38	1.1	.24	.20
28	4.1	---	---	---	---	---	e.30	.06	.42	.83	1.3	.21
29	.02	---	---	---	---	---	.11	.19	1.2	.75	1.7	.14
30	.02	---	---	---	---	---	.05	.13	2.5	.72	1.5	.15
31	.00	---	---	---	---	---	---	.11	---	1.1	.37	---
TOTAL	23.87	2.32	---	---	---	---	5.79	7.46	12.42	28.47	44.65	9.62
MEAN	.77	.14	---	---	---	---	.21	.24	.41	.92	1.44	.32
MAX	5.2	1.3	---	---	---	---	1.5	1.7	2.5	4.1	6.0	2.6
MIN	.00	.00	---	---	---	---	.01	.03	.09	.22	.16	.11
AC-FT	47	4.6	---	---	---	---	11	15	25	56	89	19
(+)	.00	.00	.00	.00	.00	.00	1.41	1.74	4.18	7.79	1.25	

e Estimated

(+) Total rainfall accumulation in inches.

08330600 TIJERAS ARROYO NEAR ALBUQUERQUE, NM

LOCATION.--Lat 35°00'10", long 106°38'53", in $SW^1/_4SW^1/_4$ 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 mi^2.

PERIOD OF RECORD.--October 1951 to September 1968 (annual maximum only), August 1974 to September 1998 (seasonal records). October 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,999 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 good except for those estimated, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
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	.77	.25	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.4	.00	.00
4	.00	.11	.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	.93	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	5.2	.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	.49	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.2
14	.00	.00	.00	.00	.00	.00	.00	1.0	.00	.00	5.3	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.2	1.2
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	38	6.1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	e2.6	.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	1.5	2.5	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	2.1	.00	.00	.00	.00	.00	.19	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	68.32	6.21	0.00	0.00	0.00	0.00	0.19	1.00	1.50	4.67	9.75	3.40
MEAN	2.20	.21	.000	.000	.000	.000	.006	.032	.050	.15	.31	.11
MAX	38	6.1	.00	.00	.00	.00	.19	1.0	1.5	2.5	5.3	2.2
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	136	12	.00	.00	.00	.00	.4	2.0	3.0	9.3	19	6.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	.83	.069	.000	.000	.000	.012	.024	.011	.16	.15	1.65	.055
MAX	2.20	.21	.000	.000	.000	.029	.065	.032	.37	.25	4.35	.11
(WY)	2001	2001	1999	1999	1999	2000	1999	2001	2000	1999	1999	2001
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.044	.040	.28	.026
(WY)	2000	1999	1999	1999	1999	2001	2000	1999	1999	2000	2000	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	97.46		95.04			
ANNUAL MEAN	.27		.26		.25	
HIGHEST ANNUAL MEAN					.43	1999
LOWEST ANNUAL MEAN					.063	2000
HIGHEST DAILY MEAN	38	Oct 23	38	Oct 23	47	Aug 3 1999
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1998
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 13	.00	Oct 1 1998
MAXIMUM PEAK FLOW			489	Oct 23	[a]2930	Jul 9 1988
MAXIMUM PEAK STAGE			5.12	Oct 23	[b]9.60	Jul 9 1988
ANNUAL RUNOFF (AC-FT)	193		189		181	
10 PERCENT EXCEEDS	.00		.00		.00	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
a From rating curve extended above 10 ft^3/s, on basis of step-backwater analysis, and slope-area measurement.
b From floodmarks.

08330775 SOUTH DIVERSION CHANNEL ABOVE TIJERAS ARROYO NEAR ALBUQUERQUE, NM

LOCATION.--Lat 35°00'10", long 106°39'26", Bernalillo County, Hydrologic Unit 13020203, on right bank 600 ft upstream from confluence with Tijeras Arroyo, and 2.5 mi south of Albuquerque.

DRAINAGE AREA.--11.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1988 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 4,930 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for those estimated, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	e.20	.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	4.3	1.2	.00
4	.00	3.5	.00	.00	.00	.00	.00	.00	.00	1.2	.19	.00
5	.00	1.2	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00
6	.00	.16	.00	.00	.00	.00	1.9	.00	.00	.00	3.4	.00
7	.00	.00	.00	.00	.00	e2.5	.69	.00	.00	.00	.41	.00
8	13	.00	.00	.00	e.00	e1.5	.05	.00	.00	.00	.01	.00
9	3.1	.00	.00	.00	.00	.56	.00	.00	.00	.00	.00	.00
10	.46	.00	.00	.00	.00	.21	.00	.00	.00	.15	3.8	.00
11	.00	.00	.00	.18	.00	.00	.00	.00	.00	.00	6.6	.00
12	e18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.49	.00
13	1.6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	4.4
14	.12	.00	.00	.00	.00	.00	.55	.23	.00	.00	17	1.4
15	.00	.00	.00	.00	.00	.00	.45	.73	.00	.00	6.3	.16
16	.00	.00	.00	.00	.00	.00	.00	.22	.00	.00	.47	.04
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.21	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	2.4	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.28	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.2	.00	.00
23	23	9.5	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00
24	8.6	.90	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.42	.11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.08	.00	.00	.00	.00	.00	.00	.00	.00	.92	.00	.00
27	.00	.00	.32	.00	.00	.00	.00	.00	.00	5.0	.00	.00
28	3.7	.00	.33	.39	e2.5	.00	3.6	.00	.00	.49	.00	.00
29	1.1	.00	.02	1.4	---	.00	.41	.00	.00	.01	.00	.00
30	.14	.00	.00	.12	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	73.32	15.37	0.67	2.09	2.50	4.97	7.65	4.07	0.00	13.45	39.90	6.00
MEAN	2.37	.51	.022	.067	.089	.16	.25	.13	.000	.43	1.29	.20
MAX	23	9.5	.33	1.4	2.5	2.5	3.6	2.4	.00	5.0	17	4.4
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	145	30	1.3	4.1	5.0	9.9	15	8.1	.00	27	79	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001, BY WATER YEAR (WY)

MEAN	1.11	.88	.067	.055	.085	.24	.14	.29	.53	.86	1.70	.91
MAX	2.88	4.50	.39	.18	.21	.69	.57	1.83	3.14	2.09	4.65	2.79
(WY)	1995	1995	1995	1995	1998	2000	1997	1994	1996	1997	1994	1997
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.21	.32	.000
(WY)	1996	1996	1994	1994	1996	1996	1994	1995	1995	1994	1995	1998

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1994 - 2001	
ANNUAL TOTAL	150.79		169.99			
ANNUAL MEAN	.41		.47		.58	
HIGHEST ANNUAL MEAN					.94	1995
LOWEST ANNUAL MEAN					.18	2000
HIGHEST DAILY MEAN	23	Oct 23	23	Oct 23	133	Aug 15 1994
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1993
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 9 1993
MAXIMUM PEAK FLOW			241	Oct 23	[a]1960	Jul 14 1990
MAXIMUM PEAK STAGE			3.31	Oct 23	[b]6.30	Jul 14 1990
ANNUAL RUNOFF (AC-FT)	299		337		417	
10 PERCENT EXCEEDS	.72		.51		.13	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
a From rating curve extended above 30 ft^3/s, on basis of step-back water analysis.
b From floodmarks.

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1992 to Oct. 1993, Feb. 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ENDING TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L) (00556)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
FEB 28...	1317	--	10.0	14.0	--	2.0	525	--	8.3	--	<1	--	--
FEB 28-28	1336	1731	10.0	14.0	1.5	--	525	84	8.1	110	--	.437	.077

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CYANIDE TOTAL (MG/L AS CN) (00720)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
FEB 28...	--	--	--	--	--	<.01	--	--	--	--	--	--	--
FEB 28-28	3.0	.630	.227	E.059	28	--	110	34.7	5.38	40.1	2	6.93	36.6

DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
FEB 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 28-28	39.9	6.0	7	89.5	<.06	<2.50	.16	.27	.9	4	.74	5.8	11.1

DATE	LEAD, DISSOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	THALLIUM, TOTAL (UG/L AS TL) (01059)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SILVER, DISSOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)
FEB 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 28-28	.72	11	21.0	<10.0	8.2	1.60	3	<1.0	<.43	18	49	1.41	2

DATE	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CYANIDE UNFLTRD TOT REC EPA CONTRACT (MG/L) (99896)
FEB 28...	--	--	--	--	--	--	--	--
FEB 28-28	<2.4	<2.6	2.01	286	239	<.14	119	<10

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ENDING TIME	DIBROMOMETHANE WATER WHOLE RECOVER (UG/L) (30217)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	BROMOFORM TOTAL (UG/L) (32104)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	PHENOLS TOTAL (UG/L) (32730)	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)	ACENAPHTHYLENE TOTAL (UG/L) (34200)
FEB 28...	1317	--	<.20	<.20	<.20	<.2	<.20	<.2	<.20	<16	<.20	<.20	--
FEB 28-28	1336	1731	--	--	--	--	--	--	--	--	--	--	<1

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

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ACE-NAPHTH-ENE TOTAL (UG/L) (34205)	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 UNFLTRD RECOVER (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)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-ETHANE TOTAL (UG/L) (34311)
FEB 28...	--	<2	--	--	--	--	--	--	--	--	--	<.20	<.2
FEB 28-28	<.9	--	M	<2	<2	<1	<.09	<1	<1	<1	<2	--	--

DATE	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 II 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)	CYCLOPE NTADIEN HEXA-CHLORO-UNFLTRD RECOVER (UG/L) (34386)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (UG/L) (34396)	INDENO (1,2,3-CD) PYRENE TOTAL (UG/L) (34403)
FEB 28...	--	--	--	--	--	--	--	<.20	--	--	--	--	--
FEB 28-28	<1	<2	<2	<.6	<.04	<.1	<.2	--	M	<1	<1	<1.0	<2

DATE	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-PHENYL-AMINE TOTAL (UG/L) (34433)	N-NITRO-SODI-METHYL-AMINE TOTAL (UG/L) (34438)	BENZENE NITRO-WATER UNFLTRD RECOVER (UG/L) (34447)	PARA-CHLORO-META CRESOL TOTAL (UG/L) (34452)	PHENAN-THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)
FEB 28...	--	<.2	<.2	<.2	--	--	--	--	--	--	--	<.2	<.20
FEB 28-28	M	--	--	--	<.9	<1	<2	<2	<2	M	M	--	--

DATE	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)	BENZO-[GHI]-PERY-LENE TOTAL (UG/L) (34521)	BENZO-[A]-ANTHRA-CENE WAT UNF (UG/L) (34526)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-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)
FEB 28...	<.20	<.20	<.20	<.20	<.20	--	--	<.20	<.20	<.20	<.2	--	<.20
FEB 28-28	--	--	--	--	--	<1	<1	<1.00	--	--	<1.1	<1	<.90

DATE	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	2-CHLORO-NAPH-THALENE TOTAL (UG/L) (34581)	2-CHLORO-PHENOL TOTAL (UG/L) (34586)	2-NITRO-PHENOL TOTAL (UG/L) (34591)	DI-N-OCTYL PHTHAL-ATE TOTAL (UG/L) (34596)	2,4-DI-CHLORO-PHENOL TOTAL (UG/L) (34601)	2,4-DI-METHYL-PHENOL TOTAL (UG/L) (34606)	2,4-DI-NITRO-TOLUENE TOTAL (UG/L) (34611)	2,4,-DI-NITRO-PHENOL TOTAL (UG/L) (34616)	2,4,6-TRI-CHLORO-PHENOL TOTAL (UG/L) (34621)	2,6-DI-NITRO-TOLUENE TOTAL (UG/L) (34626)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (UG/L) (34631)	4-BROMO-PHENYL PHENYL ETHER TOTAL (UG/L) (34636)
FEB 28...	<.20	--	--	--	--	--	--	--	--	--	--	--	--
FEB 28-28	<1.00	<1	<1	M	<1	<2	<2	<1	<20	<1	<1	<1	<1

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

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	4-CHLORO-PHENYL 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)	PHENOL UNFILT. WATER (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)
FEB 28...	--	--	--	<.2	--	<.2	<.20	<.20	--	--	--	--	--
FEB 28-28	<1	<1	<2	--	E1	<1.2	--	--	M	<.1	<.1	<9	<2

DATE	BENZI-DINE TOTAL (UG/L) (39120)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	P,P' DDT, TOTAL (UG/L) (39300)	P,P' DDD, TOTAL (UG/L) (39310)	P,P' DDE, TOTAL (UG/L) (39320)	ALDRIN, TOTAL (UG/L) (39330)	ALPHA BHC TOTAL (UG/L) (39337)	BETA BENZENE HEXA-CHLOR-IDE TOTAL (UG/L) (39338)	LINDANE TOTAL (UG/L) (39340)	CHLOR-DANE, TECH-NICAL TOTAL (UG/L) (39350)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)
FEB 28...	--	<.2	<.20	--	--	--	--	--	--	--	--	--	--
FEB 28-28	<40	--	--	<.1	<.1	<.04	<.040	<.03	<.03	<.030	<.1	<.020	<.060

DATE	TOX-APHENE, TOTAL (UG/L) (39400)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	AROCLOR 1221 PCB TOTAL (UG/L) (39488)	AROCLOR 1232 PCB TOTAL (UG/L) (39492)	AROCLOR 1248 PCB TOTAL (UG/L) (39500)	AROCLOR 1254 PCB TOTAL (UG/L) (39504)	AROCLOR 1260 PCB TOTAL (UG/L) (39508)	HEXA-CHLORO-BENZENE TOTAL (UG/L) (39700)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	STYRENE TOTAL (UG/L) (77128)	1,1-DI CHLORO-PRO-PENE, WAT, WH TOTAL (UG/L) (77168)
FEB 28...	--	--	--	--	--	--	--	--	--	<.2	<.20	<.20	<.20
FEB 28-28	<2	<.030	<.800	<1	<.1	<.1	<.1	<.1	<1	<1.3	--	--	--

DATE	2,2-DI CHLORO-PRO-PANE WAT, WH TOTAL (UG/L) (77170)	1,3-DI-CHLORO-PROPANE WAT. WH TOTAL (UG/L) (77173)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	METHANE BROMO CHLORO-WAT UNFLTRD REC (UG/L) (77297)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE SEC BUTYL-WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)
FEB 28...	<.20	<.2	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.2	<.20	<.20	<.20
FEB 28-28	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	123-TRI CHLORO-PROPANE WATER WHOLE TOTAL (UG/L) (77443)	ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) (77562)	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) (77613)	1,2-DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	BROMO-BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	DIBROMO CHLORO-PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (UG/L) (82626)
FEB 28...	<.2	<.20	<.2	<.20	<.20	<.2	<.2	<.20	<1.0	--
FEB 28-28	--	--	--	--	--	--	--	--	--	<1

Remark codes used in this report:
< -- Less than
E -- Estimated value

Null value remark codes used in this report:
M -- Presence verified, not quantified

08331000 RIO GRANDE AT ISLETA, NM

WATER-QUALITY RECORDS

LOCATION.--Lat 34°55'14", long 106°40'44", in NE$^1/_4$SE$^1/_4$SW$^1/_4$ sec. 13, T.8 N., R.2 E., Bernalillo County, Hydrologic Unit 13020203, in Isleta Pueblo Grant, on right bank 0.5 mi upstream from Isleta Diversion Dam, 1.0 mi west from State Highway 47, 1.2 mi from Isleta Pueblo, and at mile 1527.7.

DRAINAGE AREA.--18,100 mi^2 (estimated), including 2,940 mi^2 in closed basin in San Luis valley, Co.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
OCT													
02...	0954	16.0	23.0	644	599	50	614	7.4	89	7.8	--	--	--
30...	1045	11.0	19.0	643	795	220	468	8.3	90	7.6	--	--	--
NOV													
29...	1030	7.5	7.0	649	580	26	493	10.9	107	7.6	--	--	--
DEC													
06...	1000	6.0	3.0	647	626	30	510	10.4	99	8.2	.0	164	.120
21...	1140	4.5	12.0	648	483	16	500	12.0	109	7.7	--	--	--
MAR													
01...	1245	11.0	9.0	640	722	40	418	9.6	104	7.9	.0	149	.147
12...	0945	7.0	9.5	640	574	7.4	520	8.4	83	7.8	--	--	--
APR													
03...	1002	12.0	17.5	640	1170	140	460	5.4	60	7.9	--	--	--
03...	1035	--	--	--	1120	--	--	--	--	--	--	--	--
MAY													
04...	1147	14.5	19.0	639	1530	68	349	3.9	46	7.8	--	--	--
JUN													
18...	0820	19.5	18.0	644	976	19	296	8.0	104	7.7	--	--	--
JUL													
10...	1110	27.5	28.0	640	639	66	349	7.0	106	8.1	.0	112	.079
20...	0810	22.0	22.0	643	555	6.4	381	5.7	78	7.9	--	--	--
AUG													
17...	1210	27.5	28.0	648	489	630	426	6.6	99	8.2	.0	132	<.010
24...	0828	20.0	17.5	644	432	140	454	6.0	79	7.8	--	--	--
SEP													
24...	1314	22.0	28.0	648	489	71	424	5.9	80	7.9	--	--	--
24...	1409	--	--	--	489	--	--	--	--	--	--	--	--

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CYANIDE TOTAL (MG/L AS CN) (00720)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
OCT													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
06...	.12	.020	.39	.44	.900	.180	.100	.190	<.01	150	48.2	7.95	43.6
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
01...	.21	.060	.47	.68	.480	.150	.070	.060	<.01	130	40.6	7.16	35.1
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
10...	.13	<.010	.36	.74	.800	.270	.170	.170	<.01	100	32.5	5.38	27.4
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
17...	.09	<.010	<.20	2.5	E1.40	.950	.340	.320	<.01	130	40.3	6.09	32.0
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--

08331000 RIO GRANDE AT ISLETA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	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)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)
OCT													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
06...	2	5.02	27.7	73.5	.6	25.2	3.7	91.0	<.06	129	E.03	<.8	.23
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
01...	1	4.30	19.0	52.5	<.2	22.2	3.1	72.5	<.06	90	E.03	E.4	.21
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
10...	1	4.44	14.9	39.8	.5	22.9	3.8	59.5	<.06	80	<.04	<.8	.17
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
17...	1	4.97	18.2	61.9	.5	20.9	4.1	78.6	<.06	79	.04	<.8	.23
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
OCT													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
06...	1.0	M	E.06	12.5	5.8	1.26	<1.0	3	.16	2	<2.4	<2.6	2.80
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
01...	1.2	<10	E.07	5.6	5.7	.46	<1.0	2	.19	3	<2.4	<2.6	3.36
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
10...	1.2	<10	<.08	1.4	4.2	.62	<1.0	3	.15	3	<2.0	<3.0	1.51
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
17...	1.6	<10	<.08	1.0	4.9	.09	<1.0	2	.21	3	<2.0	<3.0	2.00
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--

08331000 RIO GRANDE AT ISLETA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)
OCT										
02...	--	--	--	--	--	--	--	134	--	--
30...	--	--	--	--	--	--	--	829	--	--
NOV										
29...	--	--	--	--	--	--	--	293	--	--
DEC										
06...	130	660	134	--	317	--	<.14	--	140	--
21...	--	--	--	--	--	--	--	--	--	--
MAR										
01...	66	190	122	--	257	7	<.14	1920	126	47
12...	--	--	--	--	--	71	--	166	--	--
APR										
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	298	--	--
MAY										
04...	--	--	--	--	--	--	--	337	--	--
JUN										
18...	--	--	--	--	--	--	--	105	--	--
JUL										
10...	340	150	92	68	207	85	<.01	146	101	--
20...	--	--	--	--	--	--	--	123	--	--
AUG										
17...	7100	1600	108	1200	251	98	.02	953	114	--
24...	--	--	--	--	--	--	--	233	--	--
SEP										
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	160	--	--

DATE	TIME	MOIS-TURE CONTENT DRY WT. (% OF TOTAL) (00495)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	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, SEDIMT, BED MA-TERIAL AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)
AUG													
17...	1210	53	23	630	.2	11	8.8	22	1400	18	530	.04	60

Remark codes used in this report:
< -- Less than
E -- Estimated value

Null value remark codes used in this report:
M -- Presence verified, not quantified

08331118 AMOLE DEL NORTE CHANNEL AT ALBUQUERQUE, NM

LOCATION.--Lat 35°02'14", long 106°43'15", Bernalillo County, Hydrologic Unit 13020203, in Atrisco Grant, on right bank of concrete lined channel 100 ft south of Blake Road and 2,500 ft west of intersection of Blake Road and Coors Blvd. in southwest Albuquerque.

DRAINAGE AREA.--6.302 mi^2.

PERIOD OF RECORD.--September 2000 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 4,997 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for those estimated, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 101 ft^3/s, at 1720 hours, June 28, 2000, gage height, 3.27 ft, from step-backwater analysis of concrete lined channel and broad-crested discharge computation. No flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 92 ft^3/s, at 1945 hours, Oct. 23, gage height, 3.19 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
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	e2.2	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.30	.00	.00
4	.00	3.8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.00
6	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00
7	1.4	.00	.00	.00	.00	e4.0	.00	.00	.00	.00	.00	.00
8	2.1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	1.6	2.1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	3.0	.00	.00	.33	.00	.00	.00	.00	.00	.00	.00	.09
13	.00	.00	.00	1.1	.00	.00	.00	2.1	.00	.00	1.1	e.40
14	.00	.00	.00	.00	.00	.00	.00	2.4	.00	.00	2.9	.14
15	.00	.00	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	1.6
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.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	.14	.11	.00
21	.02	.00	.00	.00	.00	.00	.00	.00	.00	.69	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	9.2	9.1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	3.4	.05	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	e.01	.00	.00	.00
26	.00	.00	.83	.00	.00	.00	.00	.00	.00	2.0	.00	.00
27	.00	.00	.05	1.3	.00	.00	e3.0	.00	.00	.00	.00	.00
28	2.8	.00	.00	3.9	e.10	.00	e.10	.00	.00	.00	.00	.00
29	.00	.00	.00	.43	---	.00	.00	.00	.00	.00	.05	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.72	.00	---
TOTAL	23.52	15.05	0.88	7.08	0.10	4.00	3.12	4.58	0.04	6.06	4.33	2.23
MEAN	.76	.50	.028	.23	.004	.13	.10	.15	.001	.20	.14	.074
MAX	9.2	9.1	.83	3.9	.10	4.0	3.0	2.4	.03	2.2	2.9	1.6
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	47	30	1.7	14	.2	7.9	6.2	9.1	.08	12	8.6	4.4

WTR YR 2001 TOTAL 70.99 MEAN .19 MAX 9.2 MIN .00 AC-FT 141

e Estimated

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-ft 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 fair except for those estimated, which are poor. 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 ft^3/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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	11	e12	e12	12	12	56	56	55	55	47	42
2	78	12	e12	e12	12	12	54	50	50	56	46	49
3	79	12	e12	e12	12	12	49	52	48	54	52	44
4	76	13	e12	e12	12	12	49	54	56	47	53	45
5	74	12	e12	e12	13	17	42	59	47	49	42	44
6	65	12	e12	e12	13	29	56	55	46	48	50	44
7	69	12	11	e11	14	32	53	57	46	58	44	41
8	84	12	11	e11	14	33	50	47	42	52	50	33
9	83	12	11	11	15	32	49	57	49	47	47	36
10	80	12	11	11	15	32	46	56	50	43	41	33
11	80	12	11	11	13	33	47	59	46	44	44	39
12	88	12	11	11	11	35	50	61	39	46	50	41
13	89	12	11	11	11	38	47	55	36	47	54	44
14	75	12	11	11	11	38	51	57	38	47	55	50
15	52	12	11	11	11	38	51	59	42	47	56	51
16	e44	12	12	12	11	38	56	55	42	43	55	47
17	e25	12	12	12	11	37	46	54	50	41	39	47
18	e15	12	12	12	11	37	40	53	49	46	37	44
19	e13	12	12	12	11	39	50	53	46	46	36	46
20	12	e12	12	12	11	42	51	61	45	37	35	41
21	12	e12	e12	12	11	39	51	57	45	46	41	44
22	11	e12	e12	12	11	45	54	57	38	53	39	39
23	11	e12	e12	12	11	38	53	61	43	55	35	40
24	11	e12	e12	12	11	50	55	61	43	48	41	42
25	12	e12	e12	12	11	54	67	58	43	47	41	37
26	11	e12	e12	12	11	51	50	64	49	45	41	33
27	11	e12	e12	12	11	50	55	52	64	45	40	33
28	11	e12	e12	12	12	50	60	54	59	47	38	39
29	11	e12	e12	12	---	55	62	60	56	48	39	38
30	11	e12	e12	12	---	57	60	54	53	51	47	39
31	11	---	e12	12	---	56	---	49	---	51	40	---
TOTAL	1367	360	363	363	333	1143	1560	1737	1415	1489	1375	1245
MEAN	44.1	12.0	11.7	11.7	11.9	36.9	52.0	56.0	47.2	48.0	44.4	41.5
MAX	89	13	12	12	15	57	67	64	64	58	56	51
MIN	11	11	11	11	11	12	40	47	36	37	35	33
AC-FT	2710	714	720	720	661	2270	3090	3450	2810	2950	2730	2470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

MEAN	81.3	276	248	227	226	190	196	197	170	93.0	83.1	65.2
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	2.62	2.42	2.55	3.93	2.92	.64	.000	.000	.013	.000
(WY)	1964	1978	1995	1995	1995	1977	1977	1977	1972	1964	1977	1964

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001	
ANNUAL TOTAL	12809.4		12750			
ANNUAL MEAN	35.0		34.9		171	
HIGHEST ANNUAL MEAN					1017	1973
LOWEST ANNUAL MEAN					2.25	1977
HIGHEST DAILY MEAN	89	Oct 13	89	Oct 13	2050	Aug 2 1973
LOWEST DAILY MEAN	9.2	Jan 6	11	Oct 22	.00	Oct 1 1963
ANNUAL SEVEN-DAY MINIMUM	9.3	Jan 3	11	Oct 26	.00	Oct 1 1963
MAXIMUM PEAK FLOW			101	Oct 2	2220	Aug 22 1958
MAXIMUM PEAK STAGE			3.99	Oct 2		
ANNUAL RUNOFF (AC-FT)	25410		25290		123700	
10 PERCENT EXCEEDS	61		57		759	
50 PERCENT EXCEEDS	38		40		8.4	
90 PERCENT EXCEEDS	10		11		.75	

e Estimated

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, NM

LOCATION.--Lat 34°25'01", long 106°48'00", Socorro County, Hydrologic Unit 13020203, in Belen or Sevilleta Grant, on downstream side of bridge on U.S. Highway 60, 2.0 mi east of Bernardo, and at mile 1,487.2, and 5.0 mi downstream from heading of conveyance channel.

DRAINAGE AREA.--19,230 mi^2, approximately, including 2,940 mi^2 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 with satellite telemetry. Datum of gage is 4,722.55 ft above National Geodetic Vertical Datum of 1929. Prior to May 7, 1996, gage at a datum 3.00 ft higher.

REMARKS.--Water-discharge records good except for those estimated, which are poor. Since November 1973 flow 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.

AVERAGE DISCHARGE.--19 years (water years 1937-38, 1942-58), 1,125 ft^3/s, 815,100 acre-ft/yr. Includes flow of floodway, conveyance channel, and Bernardo interior drain. 15 years (water years 1959-73), 898 ft^3/s, Riverside drain, prior to closure of Cochiti Dam. 28 years (water years 1974-2000), 1,426 ft^3/s, 1,033,000 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 ft^3/s, Apr. 25, 1942, gage height, 6.90 ft; no flow some years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	898	558	625	662	966	800	341	e2110	356	203	251
2	172	970	539	617	654	846	684	334	e2040	360	187	143
3	162	966	553	611	648	787	681	826	e1790	526	214	161
4	198	955	568	607	600	747	710	825	e1790	442	211	130
5	176	758	568	590	545	745	904	934	1600	414	254	115
6	233	657	574	583	539	610	997	1060	1250	327	225	83
7	222	574	596	555	566	658	1250	1030	1050	276	192	47
8	395	539	585	547	655	643	1020	896	1130	223	161	43
9	713	532	572	562	678	712	820	1010	1180	214	127	71
10	698	503	535	573	722	584	785	1230	1080	197	139	79
11	460	474	536	593	715	523	678	1060	892	184	143	140
12	417	447	551	592	706	528	487	845	865	162	272	85
13	694	454	558	588	707	486	453	884	1030	159	226	98
14	687	457	543	614	697	467	360	1020	1050	158	306	134
15	396	463	601	626	698	527	300	1080	883	137	413	173
16	422	461	729	615	695	472	243	1300	693	140	870	250
17	615	432	e754	621	773	483	195	1630	664	113	416	231
18	624	437	e720	601	796	497	176	1800	530	140	368	237
19	542	424	e654	587	768	459	124	1920	401	163	288	205
20	470	446	642	604	749	429	133	2360	346	118	245	177
21	411	484	569	596	737	424	202	2540	236	85	176	149
22	412	483	506	548	739	439	239	2390	e298	122	141	154
23	421	e520	453	559	758	417	485	4830	e239	143	116	130
24	663	614	515	590	756	329	531	4260	e308	114	84	117
25	1300	719	541	593	747	351	443	1940	e321	124	70	104
26	885	534	570	603	817	444	442	1490	e381	122	50	97
27	693	588	574	645	847	426	275	1490	e411	121	65	78
28	831	587	597	691	875	495	259	1360	484	216	53	99
29	923	572	658	692	---	636	324	1380	470	e226	64	113
30	772	568	667	694	---	642	334	1510	342	e292	42	106
31	803	---	658	655	---	744	---	1750	---	e238	117	---
TOTAL	16598	17516	18244	18777	19849	17516	15334	47325	25864	6612	6438	4000
MEAN	535	584	589	606	709	565	511	1527	862	213	208	133
MAX	1300	970	754	694	875	966	1250	4830	2110	526	870	251
MIN	162	424	453	547	539	329	124	334	236	85	42	43
AC-FT	32920	34740	36190	37240	39370	34740	30410	93870	51300	13110	12770	7930
(+)	47330	43850	44890	45900	45900	48370	50240	114920	69730	31850	31570	25580

CAL YR 2000 TOTAL 188883 MEAN 516 MAX 1300 MIN 150 AC-FT 374600 (+) MEAN 748 AC-FT 543400
WTR YR 2001 TOTAL 214073 MEAN 587 MAX 4830 MIN 42 AC-FT 424600 (+) MEAN 830 AC-FT 600200

e Estimated
(+) Combined flow in acre-feet and mean, in cubic feet per second of Floodway, Conveyance Channel, Bernardo Interior Drain and Lower San Juan Riverside Drain.

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, NM--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: October 1964 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATION (water years 1975-99): 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.--
SEDIMENT CONCENTRATION: Maximum daily mean, 3,870 mg/L, Oct. 26; minimum daily mean, 99 mg/L, Sept. 28.
SEDIMENT LOAD: Maximum daily, 21,000 tons, June 2; minimum daily, 17 ton, Sept. 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	SEDIMENT, SUSPENDED (MG/L) (80154)
OCT												
20...	1230	--	17.0	645	496	56	609	8.6	--	8.2	--	--
20...	1250	--	--	--	496	--	--	--	--	--	--	265
NOV												
30...	1200	10.0	15.0	645	557	29	520	10.2	107	8.4	--	--
DEC												
22...	1005	5.0	11.0	643	499	31	565	11.6	108	8.4	--	284
MAR												
15...	1430	--	--	--	571	--	--	--	--	--	--	212
15...	1530	13.0	13.0	640	529	72	505	10.8	123	8.4	--	351
APR												
27...	1345	23.5	--	--	273	--	--	--	--	--	--	--
27...	1415	23.5	--	644	283	49	445	8.6	121	8.4	--	--
MAY												
30...	1500	26.0	33.0	642	1510	88	298	--	--	8.3	--	287
JUN												
18...	1515	29.0	25.0	643	500	51	317	7.1	110	8.5	64	--
18...	1658	--	--	--	496	--	--	--	--	--	--	279
JUL												
20...	1310	30.0	24.5	644	113	--	441	7.4	117	8.4	33	77
31...	1430	3.3	--	--	268	--	--	--	--	--	--	--
AUG												
23...	1200	28.0	27.5	647	109	280	512	7.2	109	8.5	250	--
SEP												
27...	1320	26.0	30.5	647	68	35	532	8.4	123	8.5	45	87

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	STREAM WIDTH (FT) (00004)	STREAM DEPTH, MEAN (FT) (00064)	STREAM VELOCITY, MEAN (F/S) (00055)	TEMPERATURE WATER (DEG C) (00010)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
OCT												
18...	1430	553	365	.95	1.60	--	262	83	86	97	100	--
NOV												
14...	1410	460	212	1.7	1.31	--	128	79	88	96	100	--
DEC												
22...	1005	499	238	1.2	1.73	5.0	284	27	42	72	88	100
JAN												
09...	1500	544	352	1.1	1.48	--	179	44	50	81	100	--
FEB												
26...	1445	810	345	1.2	1.85	--	204	58	67	90	100	--
MAR												
15...	1430	571	329	1.2	1.47	--	212	73	79	97	100	--
MAY												
30...	1500	1510	344	2.1	2.04	26.0	287	52	61	91	100	--
SEP												
10...	1400	52	79.4	.62	1.07	26.5	135	74	78	80	100	--

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	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)
OCT													
18...	1430	553	365	.95	1.60	--	.0	1	25	87	98	100	--
NOV													
14...	1410	460	212	1.7	1.31	--	.0	1	21	72	94	99	100
DEC													
22...	1005	499	238	1.2	1.73	5.0	.0	3	38	83	97	100	--
JAN													
09...	1500	544	352	1.1	1.48	--	--	.0	19	79	96	99	100
FEB													
26...	1445	810	345	1.2	1.85	--	.0	1	18	72	98	100	--
MAR													
15...	1430	571	329	1.2	1.47	--	.0	1	21	72	94	98	99
APR													
27...	1345	273	198	1.7	1.33	23.5	.0	4	27	83	98	100	--
MAY													
30...	1500	1510	344	2.1	2.04	26.0	.0	2	37	83	99	100	--
JUN													
18...	1515	500	250	1.1	1.85	--	.0	3	31	73	94	98	99
SEP													
10...	1400	52	79.4	.62	1.07	26.5	--	.0	16	74	97	100	--

DATE	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)
OCT	
18...	--
NOV	
14...	--
DEC	
22...	--
JAN	
09...	--
FEB	
26...	--
MAR	
15...	100
APR	
27...	--
MAY	
30...	--
JUN	
18...	100
SEP	
10...	--

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, NM--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	165	84	1260	3090	352	531	624	1060	188	337	235	615
2	194	91	1360	3570	328	478	464	777	211	373	259	607
3	202	89	836	2180	478	713	407	673	201	352	232	494
4	235	126	771	2000	423	651	354	585	172	280	226	457
5	244	116	651	1340	507	779	266	427	185	272	224	452
6	293	186	538	961	1090	1690	228	361	157	229	200	331
7	326	195	612	949	1220	1960	187	282	249	387	240	428
8	331	353	904	1310	998	1580	180	267	322	569	240	419
9	369	720	1040	1490	838	1300	202	307	294	538	306	588
10	422	800	786	1070	439	638	190	295	276	539	285	452
11	347	436	1430	1820	406	591	207	332	264	510	278	393
12	349	394	1250	1510	329	490	246	394	254	486	313	447
13	390	750	836	1030	482	730	223	356	275	526	312	409
14	420	815	573	711	445	655	236	391	326	613	305	384
15	225	241	500	629	418	683	260	442	348	656	379	537
16	310	359	442	549	578	1140	339	564	277	521	465	594
17	318	529	455	533	348	e708	297	499	265	555	701	914
18	380	659	591	700	351	e682	253	412	357	766	625	843
19	843	1270	1010	1160	325	e574	256	407	301	625	614	765
20	380	502	1010	1220	307	535	265	434	235	477	714	828
21	173	192	1010	1330	345	530	229	371	203	405	993	1150
22	164	183	1740	2270	279	382	179	266	216	430	1050	1260
23	176	203	1160	e1630	233	286	261	394	236	482	1350	1530
24	1320	2520	691	1180	349	485	212	340	235	481	562	523
25	2550	9320	842	1760	204	300	152	243	234	472	809	780
26	3870	9360	557	801	584	899	139	226	232	512	1300	1570
27	2740	5120	447	712	872	1350	107	186	210	480	1220	1410
28	1820	4070	399	634	1490	2410	255	476	208	492	623	827
29	1450	3650	384	593	2050	3640	164	309	---	---	833	1450
30	1030	2240	416	638	1180	2140	122	228	---	---	775	1350
31	1060	2290	---	---	790	1410	123	217	---	---	575	1150
TOTAL	---	47863	---	39370	---	30940	---	12521	---	13365	---	23957

DAY	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	402	866	232	216	2990	e17000	678	655	298	166	364	239
2	448	828	214	196	3810	e21000	735	721	212	112	301	116
3	449	829	271	606	2060	e9960	1710	2630	184	107	288	126
4	423	819	263	586	1690	e8170	1330	1600	150	86	240	84
5	577	1410	277	701	813	3520	921	1050	207	147	209	65
6	567	1550	281	806	791	2830	503	451	161	99	181	41
7	783	2660	273	756	574	1630	368	275	152	79	153	19
8	778	2170	265	643	445	1390	350	211	210	92	149	17
9	662	1460	277	763	506	1620	331	192	247	85	178	34
10	804	1700	298	990	712	2060	239	128	456	175	162	35
11	1430	2620	239	699	1430	3440	293	146	600	233	262	100
12	954	1260	195	444	876	2050	297	131	840	662	149	35
13	830	1040	186	442	972	2800	300	129	799	490	164	44
14	576	562	188	518	566	1640	303	129	1230	1030	197	72
15	487	396	178	523	391	964	285	106	1620	2220	263	123
16	420	276	245	897	282	530	319	122	3850	9200	339	251
17	292	154	296	1310	394	711	273	84	2290	2600	416	266
18	288	138	302	1470	382	552	336	131	3250	3230	300	196
19	254	85	297	1540	265	290	374	164	3190	2490	248	138
20	279	101	312	1990	202	191	288	98	1230	839	211	102
21	337	188	432	2960	184	117	1170	268	852	401	168	68
22	322	206	425	2740	1440	e1160	799	275	663	259	189	79
23	405	543	561	7370	2650	e1710	433	168	415	132	178	63
24	457	660	587	6770	3560	e2960	664	210	339	78	180	57
25	479	571	439	2340	2040	e1770	512	175	308	59	174	49
26	427	521	374	1500	1920	e1970	448	156	248	33	145	38
27	285	212	369	1490	607	e674	398	137	262	46	106	23
28	234	164	356	1310	801	1070	848	541	260	38	99	27
29	304	267	368	1380	1420	1940	808	e493	265	46	311	94
30	266	239	363	1480	318	299	2320	e1830	235	26	234	67
31	---	---	732	3710	---	---	2020	e1300	243	78	---	---
TOTAL	---	24495	---	49146	---	96018	---	14706	---	25338	---	2668
YEAR		380387										

e Estimated

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 poor. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	207	75	83	93	37	145	135	141	157	130	120
2	132	156	80	83	93	36	144	116	131	151	138	142
3	135	61	76	78	94	36	136	127	126	139	134	132
4	130	63	75	78	94	35	139	131	146	126	142	133
5	123	134	76	77	89	40	105	147	128	128	116	135
6	109	204	80	77	94	53	152	142	131	131	143	140
7	105	120	75	80	81	58	153	125	120	142	129	136
8	117	55	74	89	45	60	150	114	107	135	132	116
9	106	55	79	81	42	57	134	136	129	127	128	108
10	96	81	79	82	41	56	121	145	131	130	113	109
11	89	70	74	79	40	61	139	145	129	123	119	116
12	93	74	75	79	39	68	148	158	114	126	144	128
13	89	85	76	83	47	87	130	152	109	143	158	138
14	81	75	78	85	47	103	135	151	113	143	148	147
15	74	67	78	86	53	104	135	161	124	141	158	144
16	74	62	84	79	53	111	136	160	127	129	159	140
17	38	67	85	79	53	110	109	148	143	114	135	131
18	38	78	82	87	54	112	103	155	138	132	127	130
19	34	72	81	80	48	117	129	146	125	137	121	133
20	44	77	83	81	54	126	145	165	129	114	112	116
21	78	64	76	83	53	109	151	153	126	129	126	109
22	74	74	74	68	53	117	155	136	107	138	113	106
23	73	81	73	74	47	105	145	140	126	141	106	112
24	69	82	80	80	52	131	151	146	126	139	116	112
25	68	77	85	88	47	137	159	138	125	127	123	93
26	e62	74	86	88	53	133	117	144	136	136	123	84
27	64	79	86	89	53	126	140	121	152	134	116	77
28	60	77	87	90	49	131	137	131	151	137	112	88
29	60	76	87	91	---	142	145	140	145	140	120	89
30	58	79	84	86	---	145	137	132	150	145	133	94
31	127	---	82	86	---	147	---	134	---	138	117	---
TOTAL	2635	2626	2465	2549	1661	2890	4125	4374	3885	4172	3991	3558
MEAN	85.0	87.5	79.5	82.2	59.3	93.2	138	141	130	135	129	119
MAX	135	207	87	91	94	147	159	165	152	157	159	147
MIN	34	55	73	68	39	35	103	114	107	114	106	77
AC-FT	5230	5210	4890	5060	3290	5730	8180	8680	7710	8280	7920	7060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2001, BY WATER YEAR (WY)

MEAN	77.0	31.6	28.0	26.8	26.6	49.8	61.8	66.7	61.5	64.2	73.2	76.9
MAX	168	87.9	79.5	87.7	74.5	96.9	138	141	134	146	146	164
(WY)	1996	1987	2001	1990	1990	1985	2001	2001	1992	1992	1992	1995
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1954 - 2001	
ANNUAL TOTAL	34122.3		38931			
ANNUAL MEAN	93.2		107		54.7	
HIGHEST ANNUAL MEAN					107	2001
LOWEST ANNUAL MEAN					4.29	1955
HIGHEST DAILY MEAN	207	Nov 1	207	Nov 1	208	May 5 1983
LOWEST DAILY MEAN	2.2	Jan 15	34	Oct 19	.00	Jul 31 1954
ANNUAL SEVEN-DAY MINIMUM	9.3	Jan 11	41	Feb 27	.00	Jul 31 1954
MAXIMUM PEAK FLOW			219	Oct 31	208	May 5 1983
MAXIMUM PEAK STAGE			6.20	Oct 31	6.20	Oct 31 2000
INSTANTANEOUS LOW FLOW			27	Feb 12		
ANNUAL RUNOFF (AC-FT)	67680		77220		39620	
10 PERCENT EXCEEDS	142		145		119	
50 PERCENT EXCEEDS	98		113		43	
90 PERCENT EXCEEDS	22		58		6.0	

e Estimated

08334000 RIO PUERCO ABOVE ARROYO CHICO, NEAR GUADALUPE, NM

LOCATION.--Lat 35°36'04", long 107°09'56", (revised) in SW$^1/_4$ 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 mi^2, approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with satellite telemetry. 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 good except for those estimated, which are 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. No flow for many days most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 29, 1943, probably exceeded 5,000 ft^3/s based on records for stations upstream and downstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.00	.00	.00	.00	.00	6.5	e.00	96	e.10	.00	e7.7	.00
2	e.00	.00	.00	.00	.00	8.0	e.00	133	e.10	e13	e1.5	.00
3	.00	.00	.00	.00	.00	8.0	e5.0	137	e.00	e3.5	35	.00
4	.00	.00	.00	.00	.00	3.5	e3.0	103	e.00	e.4	.51	.00
5	.00	.00	.00	.00	.00	e.50	7.6	73	e.00	e.00	.00	.00
6	.00	.00	.00	.00	.00	e.20	12	46	e.00	e.00	.00	.00
7	.16	.00	.00	.00	.00	e.10	13	29	e.00	e.00	.00	.00
8	.00	.00	.00	.00	.00	e.30	15	27	e.00	e.00	41	.00
9	.00	.00	.00	.00	.00	6.7	15	31	e.00	e.00	1.4	.00
10	.00	.00	.00	.00	.00	11	14	34	e.00	e16	9.2	.00
11	.00	.00	.00	.00	.00	e4.5	13	32	e.00	e.50	3.6	.00
12	61	.00	.00	.00	.00	e.50	e8.0	35	.00	e.10	118	.00
13	22	.00	.00	.00	.00	e.00	e7.5	44	.00	e.00	11	.00
14	e1.0	.00	.00	.00	.00	e.00	e7.5	50	e.00	e.00	8.7	.00
15	e.05	.00	.00	.00	.00	e.00	e7.0	66	.00	e9.0	1.7	.00
16	e.10	.00	.00	.00	.00	e.00	e7.0	68	.00	e3.5	.35	.00
17	e.10	.00	.00	.00	.00	e.00	6.8	62	.00	e.5	.43	.00
18	e.00	.00	.00	.00	.06	e.00	12	59	.00	e.1	.04	.00
19	e.00	.00	.00	.00	.42	e.00	21	60	.00	e.00	.00	.00
20	e.00	.00	.00	.00	4.5	e.00	34	106	.00	e.00	.00	.00
21	e.00	.00	.00	.00	4.6	e.00	31	87	.00	e.00	.00	.00
22	e.00	.00	.00	.00	1.3	e.00	34	55	.00	e.00	.01	.00
23	50	.00	.00	.00	e.90	e1.0	35	31	.00	e.00	.00	.00
24	119	.00	.00	.00	e.00	2.9	26	22	.00	e.00	.00	.00
25	66	.00	.00	.00	e.00	4.0	24	16	.00	e.00	.00	.00
26	e30	.00	.00	.00	e.00	6.0	22	12	.00	e.00	.00	.00
27	e.05	.00	.00	.00	e.00	7.5	26	9.6	.00	e.00	.00	.00
28	189	.00	.00	.00	.79	8.0	39	e7.5	.00	e.00	.00	.00
29	e75	.00	.00	.00	---	7.1	66	e5.0	.00	e.00	.00	.00
30	e10	.00	.00	.00	---	e5.0	77	e.50	.00	e.00	.00	.00
31	e.25	---	.00	.00	---	e.50	---	e.50	---	e.00	2.2	---
TOTAL	623.71	0.00	0.00	0.00	12.57	91.80	588.40	1537.10	0.20	46.60	242.34	0.00
MEAN	20.1	.000	.000	.000	.45	2.96	19.6	49.6	.007	1.50	7.82	.000
MAX	189	.00	.00	.00	4.6	11	77	137	.10	16	118	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.50	.00	.00	.00	.00
AC-FT	1240	.00	.00	.00	25	182	1170	3050	.4	92	481	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2001, BY WATER YEAR (WY)

MEAN	8.02	2.94	1.33	2.79	11.6	16.4	19.3	40.3	15.8	16.7	24.4	11.9
MAX	129	28.2	15.9	48.2	79.2	161	99.3	236	113	83.0	101	90.3
(WY)	1958	1987	1987	1993	1979	1960	1958	1973	1995	1996	1957	1972
MIN	.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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1952 - 2001	
ANNUAL TOTAL	2081.18		3142.72			
ANNUAL MEAN	5.69		8.61		14.3	
HIGHEST ANNUAL MEAN					48.6	1973
LOWEST ANNUAL MEAN					1.11	1974
HIGHEST DAILY MEAN	189	Oct 28	189	Oct 28	2000	Oct 20 1957
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1951
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Nov 1	.00	Oct 1 1951
MAXIMUM PEAK FLOW			791	Aug 8	[a]6940	Jul 29 1967
MAXIMUM PEAK STAGE			5.39	Aug 8	13.53	Jul 29 1967
ANNUAL RUNOFF (AC-FT)	4130		6230		10380	
10 PERCENT EXCEEDS	14		31		39	
50 PERCENT EXCEEDS	.00		.00		.15	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
a From rating curve extended above 1,300 ft^3/s, on basis of slope-area measurements at gage heights, 7.75 ft and 10.60 ft.

08334000 RIO PUERCO ABOVE ARROYO CHICO, NEAR GUADALUPE, NM--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGES: July 1948 to June 1956, October 1981 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler.

REMARKS.--Daily suspended-sediment samples are collected when flow is observed on this ephemeral stream.

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, 70,600 mg/L, May 20; minimum daily mean, no flow on many days.
SEDIMENT LOADS: Maximum daily, 47,600 tons, Oct. 28; minimum daily, 0 ton on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT 31...	1122	.20	32400
FEB 20...	1150	1.4	22100
MAR 29...	1111	6.3	23400
APR 16...	1230	6.3	12200
JUL 10...	1004	3.5	45300
AUG 02...	0959	.68	31300

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN CONCE TRATI (MG/L	LOAD (TONS/ DAY)	MEAN CONCE TRATI (MG/L	LOAD (TON DAY)	MEAN CONCE TRATI (MG/L	LOAD (TON DAY)	MEAN CONCE TRATI (MG/L	LOAD (TON DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	0	e.00	0	.00	0	.00	0	.00	0	.00	18100	500
2	0	e.00	0	.00	0	.00	0	.00	0	.00	26200	627
3	0	.00	0	.00	0	.00	0	.00	0	.00	25700	575
4	0	.00	0	.00	0	.00	0	.00	0	.00	13500	127
5	0	.00	0	.00	0	.00	0	.00	0	.00	11000	e15
6	0	.00	0	.00	0	.00	0	.00	0	.00	9540	e5.0
7	690	3.7	0	.00	0	.00	0	.00	0	.00	3530	e.95
8	0	.00	0	.00	0	.00	0	.00	0	.00	12600	e10
9	0	.00	0	.00	0	.00	0	.00	0	.00	29900	695
10	0	.00	0	.00	0	.00	0	.00	0	.00	23700	862
11	0	.00	0	.00	0	.00	0	.00	0	.00	15200	e185
12	26600	6520	0	.00	0	.00	0	.00	0	.00	11300	e15
13	4250	303	0	.00	0	.00	0	.00	0	.00	368	e.00
14	899	e2.4	0	.00	0	.00	0	.00	0	.00	0	e.00
15	745	e.10	0	.00	0	.00	0	.00	0	.00	0	e.00
16	361	e.10	0	.00	0	.00	0	.00	0	.00	0	e.00
17	84	e.02	0	.00	0	.00	0	.00	0	.00	0	e.00
18	1	e.00	0	.00	0	.00	0	.00	958	1.2	0	e.00
19	0	e.00	0	.00	0	.00	0	.00	9640	18	0	e.00
20	0	e.00	0	.00	0	.00	0	.00	19700	354	0	e.00
21	0	e.00	0	.00	0	.00	0	.00	21200	347	0	e.00
22	0	e.00	0	.00	0	.00	0	.00	8360	44	0	e20
23	14200	9810	0	.00	0	.00	0	.00	8960	e22	7640	48
24	32100	14400	0	.00	0	.00	0	.00	1270	e.00	16300	150
25	41300	9040	0	.00	0	.00	0	.00	0	e.00	17100	209
26	15100	e1220	0	.00	0	.00	0	.00	0	e.00	22100	393
27	1230	e.17	0	.00	0	.00	0	.00	0	e.00	25200	529
28	51300	47600	0	.00	0	.00	0	.00	2020	5.3	27100	632
29	57800	e11700	0	.00	0	.00	0	.00	---	---	26900	551
30	35600	e961	0	.00	0	.00	0	.00	---	---	19800	e267
31	18100	e12	---	---	0	.00	0	.00	---	---	8310	e11
TOTAL	---	101572.49	---	0.00	---	0.00	---	0.00	---	791.50	---	6426.95

08334000 RIO PUERCO ABOVE ARROYO CHICO, NEAR GUADALUPE, NM--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN CONCE TRATI (MG/L	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCE TRATI (MG/L	LOAD (TON DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCE TRATI (MG/L	LOAD (TON DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10	e.00	44300	11500	261	e.07	0	.00	1220	e25	141	.00
2	0	e.00	48800	17800	1	e.00	11900	e418	35400	e143	0	.00
3	3990	e54	48200	18100	0	e.00	57000	e539	58300	11700	0	.00
4	6240	e50	38700	10900	0	e.00	2030	e2.2	239	1.4	0	.00
5	17600	415	28000	5570	0	e.00	2	e.00	0	.00	0	.00
6	28700	1010	18000	2300	0	e.00	0	e.00	0	.00	0	.00
7	29000	1080	16900	1350	0	e.00	0	e.00	0	.00	0	.00
8	31200	1270	17900	1350	0	e.00	0	e.00	25600	17600	0	.00
9	26900	1070	20700	1800	0	e.00	0	e.00	605	4.8	0	.00
10	23100	849	16000	1530	0	e.00	39000	e1680	53400	2150	0	.00
11	14700	537	26400	2410	0	e.00	6730	e9.0	33100	365	0	.00
12	17400	e376	25400	2550	0	.00	636	e.17	62100	31900	0	.00
13	19600	e397	37500	4610	0	.00	0	e.00	26300	1620	0	.00
14	16200	e328	37400	5190	0	e.00	0	e.00	30200	1420	0	.00
15	13800	e261	40200	7330	0	.00	15300	e372	11400	133	0	.00
16	13200	e249	44000	8480	0	.00	11400	e108	9280	14	0	.00
17	15700	299	46600	7960	0	.00	696	e.94	8390	18	0	.00
18	20700	705	39800	6310	0	.00	0	e.00	2480	1.1	0	.00
19	27700	1600	38200	6180	0	.00	0	e.00	0	.00	0	.00
20	32200	2990	70600	22100	0	.00	0	e.00	115	.03	0	.00
21	30200	2560	60000	14600	0	.00	0	e.00	0	.00	0	.00
22	30800	2830	37400	5620	0	.00	0	e.00	100	.04	0	.00
23	30700	2900	32800	2770	0	.00	0	e.00	0	.00	0	.00
24	20200	1450	24100	1430	0	.00	0	e.00	0	.00	0	.00
25	18100	1180	18900	808	0	.00	0	e.00	0	.00	0	.00
26	19400	1170	16100	520	0	.00	0	e.00	0	.00	0	.00
27	25200	1810	13500	355	0	.00	0	e.00	0	.00	0	.00
28	31500	3330	13700	e277	0	.00	0	e.00	0	.00	0	.00
29	39000	7000	11600	e157	0	.00	0	e.00	0	.00	0	.00
30	42200	8850	7730	e10	0	.00	0	e.00	0	.00	0	.00
31	---	---	2540	e3.0	---	---	0	e.00	23900	207	---	---
TOTAL	---	46620.00	---	171870.0	---	0.07	---	3129.31	---	67302.37	---	0.00
YEAR		397712.69										

e Estimated

08341300 BLUEWATER CREEK ABOVE BLUEWATER DAM, NEAR BLUEWATER, NM

LOCATION.--Lat 35°16'04", long 108°06'50", $SW^1/_4SW^1/_4$, sec. 16, T.12 N., R.12 W., Cibola County, Hydrologic Unit 13020207, on left bank 2.0 mi south of Bluewater Dam, 7.0 mi west of Bluewater, and 11 mi east of Thoreau.

DRAINAGE AREA.--75.0 mi^2.

PERIOD OF RECORD.--October 1953 to September 1978 (annual maximum only), July 1989 to February 2001 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 7,410 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for those estimated, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.00	.00	.00	.01	.01	---	---	---	---	---	---	---
2	e.00	.00	.00	.01	.01	---	---	---	---	---	---	---
3	e.00	.00	.00	.01	.01	---	---	---	---	---	---	---
4	e.00	.02	.00	.01	.01	---	---	---	---	---	---	---
5	e.00	.01	.00	.01	.01	---	---	---	---	---	---	---
6	e.00	.00	.00	.02	.05	---	---	---	---	---	---	---
7	e.00	.01	.00	.02	.04	---	---	---	---	---	---	---
8	e.00	e.00	.00	.01	.04	---	---	---	---	---	---	---
9	e.00	e.00	.00	.01	.04	---	---	---	---	---	---	---
10	e.00	e.00	.00	.01	.04	---	---	---	---	---	---	---
11	e.00	e.00	.00	.02	.04	---	---	---	---	---	---	---
12	e.00	e.00	.00	.01	.04	---	---	---	---	---	---	---
13	e.00	e.00	.00	.01	.05	---	---	---	---	---	---	---
14	e.00	e.00	.00	.01	.06	---	---	---	---	---	---	---
15	e.00	e.00	.00	.01	.05	---	---	---	---	---	---	---
16	e.00	e.00	.00	.01	.06	---	---	---	---	---	---	---
17	e.00	e.00	.00	.01	.06	---	---	---	---	---	---	---
18	e.00	e.00	.00	.00	.06	---	---	---	---	---	---	---
19	.00	e.00	.00	.00	.06	---	---	---	---	---	---	---
20	.00	e.00	.00	.00	.85	---	---	---	---	---	---	---
21	.00	e.01	.00	.01	1.6	---	---	---	---	---	---	---
22	.00	e.02	.01	.01	2.6	---	---	---	---	---	---	---
23	.04	e.01	.01	.01	e5.6	---	---	---	---	---	---	---
24	.01	e.00	.02	.01	---	---	---	---	---	---	---	---
25	.00	e.00	.00	.01	---	---	---	---	---	---	---	---
26	.00	e.00	.02	.02	---	---	---	---	---	---	---	---
27	.00	e.00	.00	.01	---	---	---	---	---	---	---	---
28	.01	e.00	.00	.01	---	---	---	---	---	---	---	---
29	.00	.00	.01	.01	---	---	---	---	---	---	---	---
30	.00	.00	.01	.01	---	---	---	---	---	---	---	---
31	.00	---	.01	.01	---	---	---	---	---	---	---	---
TOTAL	0.06	0.08	0.09	0.32	11.39	---	---	---	---	---	---	---
MEAN	.002	.003	.003	.010	.50	---	---	---	---	---	---	---
MAX	.04	.02	.02	.02	5.6	---	---	---	---	---	---	---
MIN	.00	.00	.00	.00	.01	---	---	---	---	---	---	---
AC-FT	.1	.2	.2	.6	23	---	---	---	---	---	---	---

e Estimated

08341365 COTTONWOOD CREEK NEAR THOREAU, NM

LOCATION.--Lat 35°20'32", long 108°12'42", in NE$^1/_4$SE$^1/_4$ sec. 21, T.13 N., R. 13 W., McKinley County, Hydrologic Unit 13020207, on left bank 4.0 mi southeast of Thoreau, and 4.0 mi northwest of north end of Bluewater Lake.

DRAINAGE AREA.--77.0 mi.

PERIOD OF RECORD.--July 1989 to February 2001 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 7,420 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for those estimated, which are poor. No flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

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

e Estimated

08341400 BLUEWATER LAKE NEAR BLUEWATER, NM

LOCATION.--Lat 35°17'31", long 108°06'40", in SE$^1/_4$ 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 mi^2.

PERIOD OF RECORD.--June 1927 to December 1950 (monthend contents only, published in WSP 1732), April 1958 to current year.

GAGE.--Water-stage recorder with satellite telemetry. 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 ft^3/s occurred at station 8 mi downstream; no storage at times prior to 1947.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 5,200 acre-ft, April 18, elevation, 7,370.51 ft; minimum, 2,610 acre-ft, Jan. 22-25, Feb. 2-5, elevation, 7,362.72 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2800	2750	2700	2640	2620	2650	4900	5150	4870	3570	3450	3350
2	2790	2750	2700	2630	2610	2650	4930	5140	4820	3570	3440	3340
3	2790	2750	2700	2630	2610	2660	4970	5120	4780	3560	3450	3340
4	2780	2750	2690	2630	2610	2660	4990	5120	4720	3550	3450	3330
5	2780	2750	2690	2630	2610	2660	5010	5110	4640	3540	3450	3320
6	2770	2750	2690	2630	2620	2670	5050	5100	4550	3530	3440	3310
7	2770	2750	2690	2630	2620	2680	5070	5090	4460	3530	3440	3290
8	2770	2740	2690	2630	2630	2700	5100	5090	4360	3520	3440	3280
9	2760	2740	2680	2630	2630	2730	5120	5080	4250	3520	3430	3270
10	2760	2740	2680	2630	2630	2780	5130	5070	4140	3520	3430	3260
11	2760	2740	2670	2620	2620	2810	5140	5060	4020	3510	3420	3260
12	2770	2730	2670	2630	2620	2830	5160	5060	3900	3510	3430	3260
13	2760	2730	2670	2620	2620	2850	5170	5060	3790	3530	3440	3250
14	2760	2730	2670	2620	2620	2890	5180	5090	3700	3530	3440	3250
15	2750	2730	2650	2620	2620	2930	5190	5090	3690	3520	3450	3250
16	2750	2720	2660	2620	2620	2990	5200	5080	3680	3510	3450	3240
17	2740	2720	2660	2620	2620	3070	5190	5060	3670	3510	3440	3240
18	2740	2720	2650	2620	2620	3120	5200	5050	3660	3510	3440	3230
19	2730	2720	2650	2620	2620	3170	5190	5050	3650	3500	3430	3220
20	2730	2710	2650	2620	2620	3270	5180	5040	3650	3490	3430	3210
21	2740	2710	2640	2620	2620	3440	5170	5030	3640	3490	3420	3210
22	2750	2710	2640	2610	2620	3660	5170	5020	3630	3480	3410	3200
23	2780	2720	2640	2610	2630	3900	5170	5010	3620	3480	3400	3190
24	2780	2710	2640	2610	2630	4130	5170	5000	3620	3470	3400	3190
25	2770	2710	2650	2610	2640	4310	5170	4990	3610	3470	3390	3180
26	2770	2710	2650	2620	2640	4480	5160	4980	3600	3470	3380	3170
27	2770	2710	2640	2620	2640	4600	5170	4970	3600	3460	3370	3170
28	2770	2700	2640	2620	2650	4680	5170	4960	3590	3460	3370	3160
29	2770	2700	2640	2620	---	4750	5170	4950	3580	3450	3360	3160
30	2760	2700	2640	2620	---	4810	5160	4930	3580	3450	3360	3150
31	2760	---	2640	2620	---	4860	---	4920	---	3450	3350	---
MAX	2800	2750	2700	2640	2650	4860	5200	5150	4870	3570	3450	3350
MIN	2730	2700	2640	2610	2610	2650	4900	4920	3580	3450	3350	3150
(+)	7363.30	7363.09	7362.84	7362.75	7362.88	7369.65	7370.38	7369.80	7366.09	7365.67	7365.36	7364.68
(++)	-40	-60	-60	-20	+30	+2210	+300	-240	-1340	-130	-100	-200

CAL YR 2000 MAX 4100 MIN 2640 (++) -1450
WTR YR 2001 MAX 5200 MIN 2610 (++) +350

(+) Elevation, in feet, at end of month
(++) Change in contents, in acre-feet

08341500 BLUEWATER CREEK BELOW BLUEWATER DAM, NM

LOCATION.--Lat 35°18'13", long 108°05'56", in $NW^1/_4NW^1/_4$ 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 mi^2.

PERIOD OF RECORD.--March 1951 to September 1960, July 1989 to February 2001 (discontinued).

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	.30	.31	.30	.29	---	---	---	---	---	---	---
2	.27	.29	.31	.29	.29	---	---	---	---	---	---	---
3	.26	.32	.31	.30	.33	---	---	---	---	---	---	---
4	.28	.34	.29	.30	.34	---	---	---	---	---	---	---
5	.28	.35	.28	.30	.33	---	---	---	---	---	---	---
6	.27	.33	.29	.31	.37	---	---	---	---	---	---	---
7	.28	.33	.31	.31	.32	---	---	---	---	---	---	---
8	.32	.33	.31	.30	.30	---	---	---	---	---	---	---
9	.31	.32	.31	.30	.29	---	---	---	---	---	---	---
10	.32	.31	.31	.31	.29	---	---	---	---	---	---	---
11	.35	.33	.31	.30	.30	---	---	---	---	---	---	---
12	.37	.34	.31	.30	.30	---	---	---	---	---	---	---
13	.30	.33	.31	.30	.31	---	---	---	---	---	---	---
14	.28	.33	.30	.29	.29	---	---	---	---	---	---	---
15	.27	.34	.31	.29	.28	---	---	---	---	---	---	---
16	.25	.33	.30	.29	.26	---	---	---	---	---	---	---
17	.25	.32	.31	.29	.26	---	---	---	---	---	---	---
18	.25	.32	.30	.30	.27	---	---	---	---	---	---	---
19	.26	.31	.30	.31	.28	---	---	---	---	---	---	---
20	.27	.30	.31	.31	.28	---	---	---	---	---	---	---
21	.32	.30	.31	.32	.27	---	---	---	---	---	---	---
22	.57	.31	.31	.33	.27	---	---	---	---	---	---	---
23	.83	.34	.31	.32	---	---	---	---	---	---	---	---
24	.40	.32	.31	.29	---	---	---	---	---	---	---	---
25	.32	.32	.31	.29	---	---	---	---	---	---	---	---
26	.30	.31	.31	.29	---	---	---	---	---	---	---	---
27	.29	.31	.31	.29	---	---	---	---	---	---	---	---
28	.34	.31	.31	.30	---	---	---	---	---	---	---	---
29	.33	.31	.31	.31	---	---	---	---	---	---	---	---
30	.32	.31	.31	.31	---	---	---	---	---	---	---	---
31	.32	---	.31	.29	---	---	---	---	---	---	---	---
TOTAL	10.06	9.61	9.50	9.34	6.52	---	---	---	---	---	---	---
MEAN	.32	.32	.31	.30	.30	---	---	---	---	---	---	---
MAX	.83	.35	.31	.33	.37	---	---	---	---	---	---	---
MIN	.25	.29	.28	.29	.26	---	---	---	---	---	---	---
AC-FT	20	19	19	19	13	---	---	---	---	---	---	---

08343000 RIO SAN JOSE AT GRANTS, NM

LOCATION.--Lat 35°09'16", long 107°52'11", in $SW^1/_4NW^1/_4$ sec.26, T.11 N., R.10 W., Cibola County, Hydrologic Unit 13020207, on right bank upstream 1,500 ft from El Morro St., 0.2 mi south of Santa Fe Ave. in Grants, and at mile 67.8.

DRAINAGE AREA.--1,020 mi^2, approximately.

PERIOD OF RECORD.--October 1912 to February 1914, June 1914, October 1914 to February 1915, May 1915 to June 1921, September 1921 to June 1923, October 1923 to May 1926, September to December 1926, May 1949 to September 1966, June 1968 to current year. Monthly discharge only for some periods published in WSP 1312. Prior to October 1967, published as "Bluewater Creek at Grants."

REVISED RECORDS.--WSP 1512: 1913-14. WSP 1712: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,468.34 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). See WSP 1732 or 1923 for history of changes prior to Jan. 1, 1926. Prior to 1992 at site on right bank at bridge at El Morro St., at same datum.

REMARKS.--Records fair. 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. 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 2000 TO SEPTEMBER 2001
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	.08	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.2	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.43	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.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	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	5.8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	1.1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.38	.00	.00	.00	.00	.00	.00	.00	.00	.36	.00	.00
15	.09	.00	.00	.00	.00	.00	.00	.00	.00	.23	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	7.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	2.73	0.00
MEAN	.24	.000	.000	.000	.000	.000	.000	.000	.000	.019	.088	.000
MAX	5.8	.00	.00	.00	.00	.00	.00	.00	.00	.36	2.2	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	15	.00	.00	.00	.00	.00	.00	.00	.00	1.2	5.4	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2001, BY WATER YEAR (WY)

MEAN	.22	.019	.000	.009	.000	.21	5.11	1.63	.014	.11	.46	.28
MAX	2.51	.57	.000	.29	.000	6.30	87.0	22.5	.33	1.20	7.79	5.49
(WY)	1970	1999	1969	1998	1969	1985	1980	1983	1999	1981	1993	1972
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1969	1969	1969	1969	1969	1969	1969	1969	1968	1968	1969	1968

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1968 - 2001	
ANNUAL TOTAL	13.40		10.74			
ANNUAL MEAN	.037		.029		.67	
HIGHEST ANNUAL MEAN					8.10	1980
LOWEST ANNUAL MEAN					.000	1978
HIGHEST DAILY MEAN	5.8	Oct 12	5.8	Oct 12	355	Apr 21 1980
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Jun 1 1968
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Jun 1 1968
MAXIMUM PEAK FLOW			11	Oct 12	[a]1760	Aug 28 1952
MAXIMUM PEAK STAGE			1.83	Oct 12	5.35	Aug 28 1952
ANNUAL RUNOFF (AC-FT)	27		21		486	
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 ft^3/s, on basis of velocity-area studies.

08343500 RIO SAN JOSE NEAR GRANTS, NM

LOCATION.--Lat 35°04'27", long 107°45'01", in $SE^1/_4SE^1/_4$ 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 mi^2, approximately, of which 1,130 mi^2 does not contribute directly to surface runoff.

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. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	4.7	4.3	3.4	3.8	3.9	4.1	4.2	3.4	2.9	5.6	3.4
2	3.6	4.7	4.1	3.4	3.7	3.9	4.1	4.2	3.5	2.9	5.2	3.5
3	3.7	4.6	4.1	3.4	3.8	3.9	4.1	4.3	3.4	2.8	4.6	3.5
4	3.8	4.7	4.1	3.6	3.8	3.9	4.1	4.1	3.4	2.9	4.8	3.6
5	3.8	4.6	4.1	3.6	3.8	3.9	4.1	3.9	3.3	3.0	4.3	3.7
6	3.8	4.6	4.1	3.6	3.8	3.9	4.1	3.8	3.4	3.1	4.1	3.7
7	3.9	4.6	4.1	3.6	3.8	3.9	4.2	3.7	3.4	3.1	3.8	3.5
8	3.8	4.6	4.1	3.6	3.6	3.9	4.2	3.6	3.4	3.0	3.7	3.8
9	3.8	4.6	4.1	3.6	3.6	3.9	4.3	3.5	3.5	3.2	3.6	3.7
10	3.8	4.4	4.1	3.6	3.7	3.9	4.4	3.4	3.4	3.2	3.4	3.6
11	3.9	4.4	4.1	3.6	3.6	3.8	4.4	3.4	3.5	3.3	3.5	3.7
12	3.9	4.4	4.1	3.6	3.6	3.8	4.3	3.3	3.4	3.3	3.6	3.8
13	3.9	4.5	4.0	3.6	3.7	4.0	4.2	3.2	3.5	3.4	3.4	3.7
14	4.1	4.5	4.1	3.6	3.6	3.9	4.1	3.1	3.5	3.7	3.4	3.7
15	4.1	4.5	3.9	3.6	3.8	3.9	4.2	3.1	3.6	3.8	3.7	3.6
16	4.2	4.5	3.9	3.6	3.9	4.1	4.2	3.1	3.8	3.8	3.7	3.6
17	4.4	4.5	3.9	3.6	3.9	3.9	4.3	3.2	3.7	4.2	3.7	3.4
18	4.5	4.4	3.7	3.6	4.0	3.8	4.4	3.1	3.7	4.4	4.0	3.6
19	4.7	4.4	3.6	3.6	4.0	3.8	4.3	3.2	3.6	4.7	3.9	3.8
20	4.8	4.3	3.6	3.6	3.9	3.9	4.2	2.9	3.7	4.9	3.5	3.7
21	4.9	4.2	3.6	3.6	3.9	3.9	4.2	3.0	3.8	5.5	3.6	3.6
22	4.7	4.2	3.6	3.6	4.0	4.0	4.0	3.0	4.1	5.6	3.6	3.7
23	4.7	4.1	3.6	3.6	4.1	4.1	4.1	3.1	4.2	5.5	3.5	3.7
24	4.7	4.0	3.5	3.6	4.0	4.1	4.2	3.0	4.1	5.7	3.3	3.6
25	4.7	3.8	3.6	3.6	4.0	4.1	4.3	3.2	4.1	5.9	3.5	3.9
26	4.7	3.9	3.4	3.6	4.1	4.1	4.3	3.3	3.8	5.8	3.4	4.0
27	4.7	3.9	3.4	3.6	4.0	4.1	4.1	3.5	3.4	5.6	3.4	3.8
28	4.5	3.8	3.4	3.6	3.9	4.1	4.0	3.4	3.2	5.8	3.3	3.8
29	4.5	3.9	3.4	3.6	---	4.1	4.0	3.4	3.0	5.8	3.3	3.8
30	4.7	4.3	3.4	3.6	---	4.1	4.1	3.3	3.0	5.9	3.3	3.9
31	4.7	---	3.4	3.7	---	4.1	---	3.5	---	6.0	3.2	---
TOTAL	131.6	130.6	118.4	111.1	107.4	122.7	125.6	106.0	106.8	132.7	116.9	110.4
MEAN	4.25	4.35	3.82	3.58	3.84	3.96	4.19	3.42	3.56	4.28	3.77	3.68
MAX	4.9	4.7	4.3	3.7	4.1	4.1	4.4	4.3	4.2	6.0	5.6	4.0
MIN	3.6	3.8	3.4	3.4	3.6	3.8	4.0	2.9	3.0	2.8	3.2	3.4
AC-FT	261	259	235	220	213	243	249	210	212	263	232	219

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2001, BY WATER YEAR (WY)

MEAN	5.52	5.23	5.09	5.40	5.55	5.49	7.94	7.76	5.40	6.63	8.91	6.40
MAX	16.6	9.76	7.82	10.5	11.6	11.4	91.3	128	10.2	24.0	53.2	24.6
(WY)	1973	1980	1978	1945	1944	1985	1980	1941	1941	1957	1957	1975
MIN	2.43	3.01	2.51	2.84	2.39	3.23	2.86	2.49	3.25	3.38	3.16	3.52
(WY)	1990	1994	1994	1994	2000	1999	1994	1996	1998	1994	1994	1990

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1937 - 2001	
ANNUAL TOTAL	1465.2		1420.2			
ANNUAL MEAN	4.00		3.89		6.28	
HIGHEST ANNUAL MEAN					19.3	1941
LOWEST ANNUAL MEAN					3.53	1994
HIGHEST DAILY MEAN	8.1	Jun 23	6.0	Jul 31	538	Aug 30 1957
LOWEST DAILY MEAN	1.5	Feb 9	2.8	Jul 3	1.5	Feb 9 2000
ANNUAL SEVEN-DAY MINIMUM	1.6	Feb 6	2.9	Jun 29	1.6	Feb 6 2000
MAXIMUM PEAK FLOW			7.7	Jul 31	[a]1400	Sep 20 1963
MAXIMUM PEAK STAGE			1.76	Jul 31	4.87	Sep 20 1963
INSTANTANEOUS LOW FLOW			2.7	Jul 1	1.4	Feb 10 2000
ANNUAL RUNOFF (AC-FT)	2910		2820		4550	
10 PERCENT EXCEEDS	4.9		4.6		7.0	
50 PERCENT EXCEEDS	4.0		3.8		5.0	
90 PERCENT EXCEEDS	2.9		3.3		3.8	

a From rating curve extended above 450 ft^3/s, on basis of slope-area measurements at gage heights 3.19 and 4.87 ft.

08353000 RIO PUERCO NEAR BERNARDO, NM

LOCATION.--Lat 34°24'33", long 106°51'09", in SE$^1/_4$ sec.8, T.2 N., R.1 E., Socorro County, Hydrologic Unit 13020204, on left bank 300 ft upstream of bridge on former U.S. Highway 85, 0.2 mi upstream from Interstate Highway 25, 1.2 mi southwest of Bernardo, 3.0 mi upstream from mouth, and 18.0 mi south of Belen.

DRAINAGE AREA.--7,350 mi^2, approximately, of which at least 1,130 mi^2 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 with satellite telemetry. Datum of gage is 4,722.34 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 24, 1969, at datum 3.10 ft higher.

REMARKS.--Water-discharge records fair except for those estimated, which are poor. Diversions for irrigation of about 11,500 acres upstream from station (includes 3,700 acres irrigated wholly or partly from wells). No flow much of the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--The greatest flood since about 1880 occurred Sept. 23, 1929, from information by local residents (discharge, about 35,000 ft^3/s, estimated on basis of peak at Rio Puerco). Another flood occurred Aug. 12, 1929 (discharge, 30,600 ft^3/s, by slope-area measurement, from reports of New Mexico State Engineer).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	6.2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	6.4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	1.8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19
4	.00	7.6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	7.7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	1.3	.00	.00	.00	.00	.00	24	.00	.00	179	.00
7	1.2	1.4	.00	.00	.00	.01	.00	e15	.00	.00	90	.00
8	2.6	.43	.00	.00	.00	.65	.00	4.1	.00	.00	.69	.00
9	.01	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.6	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.3	.00
12	.02	.00	.02	.00	.00	.00	.00	.00	.00	.00	81	.00
13	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	101	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	219	.00
15	.00	.00	.00	.00	.00	.00	.00	4.7	.00	.00	179	.00
16	.00	.00	.00	.00	.00	.00	.00	16	.00	.00	381	.00
17	.00	.00	.00	.00	.00	.00	.00	14	.00	.00	144	.27
18	.00	.00	.00	.00	.00	.00	.00	15	.00	.00	38	.00
19	.00	.00	.00	.00	.00	.00	.00	12	.00	.00	17	27
20	.00	.00	.00	.00	.00	.00	.00	14	.00	.00	6.0	35
21	.00	.00	.00	.00	.00	.00	.00	13	.00	.00	1.5	21
22	.00	.00	.00	.00	.00	.00	.00	28	.00	12	2.7	8.7
23	.00	.21	.00	.00	.00	.00	.00	26	.00	42	.08	3.8
24	.00	.00	.00	.00	.00	.00	.00	33	.00	13	.07	.90
25	.00	.00	.00	.00	.00	.00	.00	9.7	.00	4.5	13	.01
26	123	.00	.00	.00	.00	.00	.00	6.5	.00	1.7	3.7	.00
27	41	.00	.00	.00	.00	.00	.00	.69	.00	4.1	.42	.00
28	11	.00	.00	.23	.00	.00	.00	.00	.00	2.4	.00	.00
29	35	.00	.00	.00	---	.00	.00	.00	.00	.15	.00	.00
30	37	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	6.3	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	257.13	33.04	0.07	0.23	0.00	0.66	0.00	235.71	0.00	79.85	1463.06	96.87
MEAN	8.29	1.10	.002	.007	.000	.021	.000	7.60	.000	2.58	47.2	3.23
MAX	123	7.7	.05	.23	.00	.65	.00	33	.00	42	381	35
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	510	66	.1	.5	.00	1.3	.00	468	.00	158	2900	192

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	48.6	7.04	1.21	2.45	14.8	18.0	14.7	40.9	19.3	62.6	182	83.5
MAX	586	100	26.6	70.0	142	208	179	885	203	362	922	584
(WY)	1942	1987	1985	1993	1979	1960	1973	1941	1941	1955	1957	1972
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1952	1940	1940	1940	1942	1942	1944	1950	1945	1942	2000	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	2048.06		2166.62			
ANNUAL MEAN	5.60		5.94		41.4	
HIGHEST ANNUAL MEAN					171	1941
LOWEST ANNUAL MEAN					4.80	2000
HIGHEST DAILY MEAN	391	Apr 2	381	Aug 16	5980	May 5 1941
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Nov 1 1939
ANNUAL SEVEN-DAY MINIMUM	.00	Feb 22	.00	Oct 13	.00	Nov 1 1939
MAXIMUM PEAK FLOW			669	Aug 6	[a]18800	Sep 23 1941
MAXIMUM PEAK STAGE			7.93	Aug 6	[b]16.90	Aug 12 1955
ANNUAL RUNOFF (AC-FT)	4060		4300		29960	
10 PERCENT EXCEEDS	5.5		7.6		64	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
a From rating curve extended above 7,800 ft^3/s.
b Maximum gage height, 16.9 ft, present datum, Aug. 12, 1955.

08353000 RIO PUERCO NEAR BERNARDO, NM--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1947 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: October 1947 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler.

REMARKS.--Daily suspended-sediment samples are collected when flow is observed on this ephemeral stream.

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, 105,000 mg/L, May 5; minimum daily mean, no flow on many days.
SEDIMENT LOAD: Maximum daily, 73,400 tons, Aug. 6; minimum daily, 0 ton on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
OCT													
27...	1033	9.5	10.0	646	34	45000	2120	8.5	89	7.8	--	--	--
27...	1040	--	--	--	38	--	--	--	--	--	--	--	--
MAY													
07...	1215	18.0	28.5	647	11	210000	2040	7.8	98	8.0	.0	139	530
25...	1115	19.0	20.0	645	9.7	--	1580	8.0	103	8.2	.0	122	400
AUG													
15...	1310	25.0	31.5	646	112	160000	1620	7.0	101	7.8	.0	108	400
SEP													
21...	0909	--	--	--	32	--	--	--	--	--	--	--	--
21...	1123	19.0	17.0	650	29	150000	1480	8.2	105	7.8	--	--	--

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)
OCT													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
07...	148	37.8	278	5	5.42	70.3	894	.7	7.0	<2.0	42.7	<.06	167
25...	113	28.4	191	4	4.99	51.3	613	.8	7.8	<2.0	44.8	<.06	128
AUG													
15...	118	24.6	211	5	7.76	40.7	683	.9	9.7	E1.1	76.7	<.06	157
SEP													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)
OCT													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
07...	.09	<.8	.30	6.1	<30	.08	.3	6.6	.39	<1.0	6	.16	2
25...	E.03	<.8	.26	6.0	<10	<.08	.3	6.8	1.60	<1.0	2	.20	1
AUG													
15...	E.03	E.4	.31	12.7	<10	<.08	.5	5.8	<.06	<1.0	6	.29	2
SEP													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--

08353000 RIO PUERCO NEAR BERNARDO, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)
OCT												
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	96000	--	--
MAY												
07...	E2.0	.12	8.21	114	100000	1510	100	1.9	.03	117000	151	100000
25...	E2.2	.08	6.18	100	--	1070	100	1.5	.02	50400	122	44000
AUG												
15...	2.4	.15	3.80	89	72000	1150	99	.65	.03	66600	2260	--
SEP												
21...	--	--	--	--	--	--	--	--	--	75200	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	NITRO-GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
MAY			
07...	1215	1.0	200

Remark codes used in this report:
< -- Less than
E -- Estimated value

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN CONCEN TRATIO (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCE TRATI (MG/L	LOAD (TON DAY)	MEAN CONCE TRATI (MG/L	LOAD (TON DAY)	MEAN CONCE TRATI (MG/L	LOAD (TON DAY)	MEAN CONCEN TRATIO (MG/L)	LOAD (TON DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	0	.00	26200	552	0	.00	0	.00	0	.00	0	.00
2	0	.00	18200	337	0	.00	0	.00	0	.00	0	.00
3	0	.00	7160	40	0	.00	0	.00	0	.00	0	.00
4	0	.00	15100	475	0	.00	0	.00	0	.00	0	.00
5	0	.00	22600	539	0	.00	0	.00	0	.00	0	.00
6	0	.00	12400	51	0	.00	0	.00	0	.00	0	.00
7	2790	118	8570	42	0	.00	0	.00	0	.00	19	.00
8	12900	206	3600	7.0	0	.00	0	.00	0	.00	1830	9.2
9	251	.11	1	.00	0	.00	0	.00	0	.00	0	.00
10	0	.00	2	.00	0	.00	0	.00	0	.00	0	.00
11	0	.00	4	.00	0	.00	0	.00	0	.00	0	.00
12	131	.03	5	.00	91	.22	0	.00	0	.00	0	.00
13	0	.00	6	.00	683	1.1	0	.00	0	.00	0	.00
14	0	.00	7	.00	0	.00	0	.00	0	.00	0	.00
15	0	.00	9	.00	0	.00	0	.00	0	.00	0	.00
16	0	.00	10	.00	0	.00	0	.00	0	.00	0	.00
17	0	.00	11	.00	0	.00	0	.00	0	.00	0	.00
18	0	.00	13	.00	0	.00	0	.00	0	.00	0	.00
19	0	.00	14	.00	0	.00	0	.00	0	.00	0	.00
20	0	.00	15	.00	0	.00	0	.00	0	.00	0	.00
21	0	.00	16	.00	0	.00	0	.00	0	.00	0	.00
22	0	.00	18	.00	0	.00	0	.00	0	.00	0	.00
23	0	.00	2430	5.6	0	.00	0	.00	0	.00	0	.00
24	0	.00	52	.01	0	.00	0	.00	0	.00	0	.00
25	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
26	64200	31700	0	.00	0	.00	0	.00	0	.00	0	.00
27	94600	10900	0	.00	0	.00	0	.00	0	.00	0	.00
28	79600	2450	0	.00	0	.00	852	2.3	0	.00	0	.00
29	79000	8020	0	.00	0	.00	0	.00	---	---	0	.00
30	105000	11700	0	.00	0	.00	0	.00	---	---	0	.00
31	48500	900	---	---	0	.00	0	.00	---	---	0	.00
TOTAL	---	65994.14	---	2048.61	---	1.32	---	2.30	---	0.00	---	9.20

08353000 RIO PUERCO NEAR BERNARDO, NM--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEA CON TRA (MG	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCE TRATI (MG/L	LOAD (TON DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
2	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
3	0	.00	0	.00	0	.00	0	.00	0	.00	4870	7.1
4	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
5	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
6	22	.00	68200	7280	0	.00	0	.00	68800	73400	0	.00
7	0	.00	105000	e6990	0	.00	0	.00	104000	31500	0	.00
8	0	.00	67700	850	0	.00	0	.00	20900	103	0	.00
9	0	.00	687	.40	0	.00	0	.00	0	.00	0	.00
10	0	.00	0	.00	0	.00	0	.00	11900	330	0	.00
11	0	.00	0	.00	0	.00	0	.00	12100	70	0	.00
12	0	.00	0	.00	0	.00	0	.00	92100	20800	0	.00
13	0	.00	0	.00	0	.00	0	.00	71000	18500	0	.00
14	0	.00	0	.00	0	.00	0	.00	79600	52800	0	.00
15	0	.00	23000	620	0	.00	0	.00	67100	34900	0	.00
16	0	.00	66000	2970	0	.00	0	.00	65200	68900	0	.00
17	0	.00	68100	2690	0	.00	0	.00	47500	19100	1850	13
18	0	.00	65300	2740	0	.00	0	.00	37800	3870	0	.00
19	0	.00	56000	1880	0	.00	0	.00	41300	1870	32800	9360
20	0	.00	52400	2070	0	.00	0	.00	35200	590	92900	9520
21	0	.00	60000	2120	0	.00	0	.00	25400	107	71200	4180
22	0	.00	73600	5670	0	.00	25400	5110	20900	174	56900	1340
23	0	.00	65800	4870	0	.00	59300	7310	3890	3.4	41900	447
24	0	.00	75300	6770	0	.00	31900	1150	189	2.7	30900	81
25	0	.00	38400	1070	0	.00	20700	261	78200	2910	5360	.84
26	0	.00	24100	484	0	.00	10200	46	47900	501	0	.00
27	0	.00	12100	47	0	.00	61900	1060	19700	36	0	.00
28	0	.00	0	.00	0	.00	37500	295	0	.00	0	.00
29	0	.00	0	.00	0	.00	4990	4.5	0	.00	0	.00
30	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
31	---	---	0	.00	---	---	0	.00	0	.00	---	---
TOTAL	---	0.00	---	49121.40	---	0.00	---	15236.50	---	330467.10	---	24948.94

YEAR 487829.51

e Estimated

08354500 SOCORRO MAIN CANAL NORTH AT SAN ACACIA, NM

LOCATION.--Lat 34°15'17", long 106°53'43", in $SE^1/_4NW^1/_4$ 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 (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 those estimated, which are poor. 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% of the initial canal flow was diverted before reaching the regular gaging station. No flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	206	.00	.00	.00	.00	59	214	247	250	259	233	253
2	211	.00	.00	.00	.00	88	210	224	245	255	235	266
3	214	.00	.00	.00	.00	88	206	232	251	258	240	254
4	194	.00	.00	.00	.00	94	216	241	248	255	267	251
5	211	.00	.00	.00	.00	108	221	250	256	251	258	259
6	208	.00	.00	.00	.00	136	224	251	253	247	269	261
7	206	.00	.00	.00	.00	160	233	252	258	235	272	213
8	214	.00	.00	.00	.00	152	227	252	267	233	275	204
9	212	.00	.00	.00	.00	160	222	266	266	211	259	183
10	208	.00	.00	.00	.00	157	212	260	264	233	236	204
11	202	.00	.00	.00	.00	158	210	252	260	226	244	251
12	206	.00	.00	.00	.00	158	203	243	271	218	250	265
13	210	.00	.00	.00	.00	172	206	242	273	258	234	260
14	208	.00	.00	.00	.00	187	215	242	272	276	197	271
15	198	.00	.00	.00	.00	190	213	238	272	275	213	275
16	203	.00	.00	.00	.00	181	220	242	268	272	221	261
17	e3.0	.00	.00	.00	.00	182	209	237	272	249	204	250
18	e.00	.00	.00	.00	.00	189	168	235	266	240	203	244
19	.00	.00	.00	.00	.00	151	167	233	269	260	205	256
20	.00	.00	.00	.00	.00	173	205	231	258	251	218	254
21	.00	.00	.00	.00	.00	191	185	233	220	239	242	252
22	.00	.00	.00	.00	.00	215	180	224	183	236	229	258
23	.00	.00	.00	.00	.00	225	214	230	197	243	232	258
24	.00	.00	.00	.00	.00	221	238	215	176	250	230	249
25	.00	.00	.00	.00	.00	234	246	217	220	242	217	250
26	.00	.00	.00	.00	.00	225	240	224	253	246	214	249
27	.00	.00	.00	.00	.00	217	247	222	273	250	208	234
28	.00	.00	.00	.00	.00	215	244	233	271	243	174	233
29	.00	.00	.00	.00	---	208	253	246	269	263	208	245
30	.00	.00	.00	.00	---	208	246	248	259	269	222	244
31	.00	---	.00	.00	---	212	---	252	---	260	229	---
TOTAL	3314.00	0.00	0.00	0.00	0.00	5314	6494	7414	7560	7703	7138	7407
MEAN	107	.000	.000	.000	.000	171	216	239	252	248	230	247
MAX	214	.00	.00	.00	.00	234	253	266	273	276	275	275
MIN	.00	.00	.00	.00	.00	59	167	215	176	211	174	183
AC-FT	6570	.00	.00	.00	.00	10540	12880	14710	15000	15280	14160	14690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

MEAN	135	8.28	6.76	6.19	4.56	155	203	204	201	181	157	140
MAX	260	86.0	79.0	56.7	52.4	234	254	279	298	291	277	253
(WY)	2000	1989	1976	1976	1979	1995	1998	1997	1994	1995	1995	1999
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001	
ANNUAL TOTAL	49867.00		52344.00			
ANNUAL MEAN	136		143		117	
HIGHEST ANNUAL MEAN					170	1995
LOWEST ANNUAL MEAN					63.7	1964
HIGHEST DAILY MEAN	277	May 18	276	Jul 14	325	Aug 5 1995
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 18	.00	Oct 18 1963
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 18	.00	Nov 2 1963
ANNUAL RUNOFF (AC-FT)	98910		103800		85030	
10 PERCENT EXCEEDS	253		259		246	
50 PERCENT EXCEEDS	198		208		126	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated

08354800 RIO GRANDE CONVEYANCE CHANNEL AT SAN ACACIA, NM

LOCATION.--Lat 34°14'54", long 106°54'04", in SW$^1/_4$ 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 January 1994, October 1994 to current year. Daily records 1958-64 are available in files at district office.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,652.50 ft above National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation).

REMARKS.--Water-discharge records fair except for those estimated, which are poor. The conveyance channel, constructed in 1958, is 1 of 3 channels (stations 08354500, 08354900) carrying flow in valley cross section. The original design and plan was for the conveyance channel to carry all flows up to about 2,000 ft^3/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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.75	1.5	e1.0	478	.42	.00	.00
2	.00	.00	.00	.00	.00	.94	1.5	e1.0	236	.42	.00	.00
3	.00	.00	.00	.00	.00	.72	1.4	e1.1	246	.40	.00	.00
4	.00	.00	.00	.00	.00	.71	1.3	e1.1	269	.06	.00	.00
5	.00	.00	.00	.00	.00	.90	1.4	e1.1	279	.00	.00	.00
6	.00	.00	.00	.00	.00	.89	1.5	e1.3	283	.00	.00	.00
7	.00	.00	.00	.00	.00	.82	1.3	e1.3	287	.00	.00	.00
8	.04	.00	.00	.00	.00	1.0	1.3	e1.8	289	.00	.00	.00
9	.00	.00	.00	.00	.00	.79	1.3	.57	295	.00	.00	.00
10	.00	.00	.00	.00	.00	.78	e15	.51	296	.00	.00	.00
11	.02	.00	.00	.00	.00	.68	e56	.48	283	.00	.00	.00
12	.04	.00	.00	.00	.00	.69	e61	.49	131	.00	.00	.00
13	.00	.00	.00	.00	.00	.69	e62	.90	25	.00	.00	.00
14	.00	.00	.00	.00	.00	.67	e30	.90	25	.00	.00	.00
15	.00	.00	.00	.00	.00	.88	e1.1	.90	e24	.06	.00	.00
16	.00	.00	.00	.00	.00	1.1	e.70	136	e23	.04	.00	.00
17	.00	.00	.00	.00	.00	.98	e1.1	397	e23	.00	.00	.00
18	.00	.00	.00	.00	.00	1.3	e.90	589	e19	.01	.00	.00
19	.00	.00	.00	.00	.00	25	e.70	657	e.80	.00	.00	.00
20	.00	.00	.00	.00	.00	.86	e.70	660	e.60	.00	.00	.00
21	.00	.00	.00	.00	.00	.90	e.90	628	e.53	.00	.00	.00
22	.00	.00	.00	.00	.00	.86	e.90	601	.46	.00	.00	.00
23	.00	.00	.00	.00	.00	.96	e1.1	586	.46	.00	.00	.00
24	.00	.00	.00	.00	.00	1.1	e1.1	502	.47	.00	.00	.00
25	.00	.00	.00	.00	.00	1.1	e1.3	566	.52	.00	.00	.00
26	.00	.00	.00	.00	.00	1.1	e1.0	627	.55	.00	.00	.00
27	.00	.00	.00	.00	.00	1.2	e1.0	625	.54	.00	.00	.00
28	.00	.00	.00	.00	.00	1.2	e1.0	628	.55	.00	.00	.00
29	.00	.00	.00	.00	---	1.3	e1.0	642	.55	.00	.00	.00
30	.00	.00	.00	.00	---	1.4	e1.0	643	.54	.00	.00	.00
31	.00	---	.00	.00	---	1.3	---	644	---	.00	.00	---
TOTAL	0.10	0.00	0.00	0.00	0.00	53.57	252.00	9145.45	3517.57	1.41	0.00	0.00
MEAN	.003	.000	.000	.000	.000	1.73	8.40	295	117	.045	.000	.000
MAX	.04	.00	.00	.00	.00	25	62	660	478	.42	.00	.00
MIN	.00	.00	.00	.00	.00	.67	.70	.48	.46	.00	.00	.00
AC-FT	.2	.00	.00	.00	.00	106	500	18140	6980	2.8	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2001, BY WATER YEAR (WY)

MEAN	117	538	547	444	450	362	338	478	361	177	157	113
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	.000	.000	.000	.000	.000
(WY)	1988	1988	1986	1988	1987	1991	1991	1995	1986	1987	1987	1987

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1959 - 2001	
ANNUAL TOTAL	135.74		12970.10			
ANNUAL MEAN	.37		35.5		339	
HIGHEST ANNUAL MEAN					1033	1973
LOWEST ANNUAL MEAN					.049	1988
HIGHEST DAILY MEAN	25	Mar 22	660	May 20	1950	May 12 1966
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Jul 22 1959
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Jul 20 1963
ANNUAL RUNOFF (AC-FT)	269		25730		245900	
10 PERCENT EXCEEDS	.32		23		1220	
50 PERCENT EXCEEDS	.01		.00		7.0	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated

08354800 RIO GRANDE CONVEYANCE CHANNEL AT SAN ACACIA, NM--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: January 1959 to September 1985, October 1988 to September 1989, October 1996 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATION: Maximum daily mean, 141,000 mg/L, Aug. 10, 1959; minimum daily mean, no flow on many days of most years.
SEDIMENT LOAD: Maximum daily, 528,000 tons, Aug. 28, 1972; minimum daily, 0 ton on many days during most years.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATION: Maximum daily mean, 14,200 mg/L, May 25; minimum daily mean, no flow on many days.
SEDIMENT LOAD: Maximum daily, 23,200 tons, May 25; minimum daily, 0 ton on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
MAR			
13...	1105	.80	27
28...	0925	1.1	46
APR			
11...	1500	52	183
MAY			
08...	1410	1.5	126
22...	1009	608	1070
JUN			
21...	1430	.53	43

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	0	.00	0	.00	0	.00	0	.00	0	.00	49	.10
2	0	.00	0	.00	0	.00	0	.00	0	.00	71	.18
3	0	.00	0	.00	0	.00	0	.00	0	.00	54	.11
4	0	.00	0	.00	0	.00	0	.00	0	.00	50	.10
5	0	.00	0	.00	0	.00	0	.00	0	.00	56	.14
6	0	.00	0	.00	0	.00	0	.00	0	.00	58	.14
7	0	.00	0	.00	0	.00	0	.00	0	.00	59	.13
8	13	.00	0	.00	0	.00	0	.00	0	.00	77	.23
9	0	.00	0	.00	0	.00	0	.00	0	.00	79	.17
10	0	.00	0	.00	0	.00	0	.00	0	.00	70	.15
11	3	.00	0	.00	0	.00	0	.00	0	.00	58	.11
12	8	.00	0	.00	0	.00	0	.00	0	.00	59	.11
13	0	.00	0	.00	0	.00	0	.00	0	.00	61	.11
14	0	.00	0	.00	0	.00	0	.00	0	.00	59	.11
15	0	.00	0	.00	0	.00	0	.00	0	.00	71	.17
16	0	.00	0	.00	0	.00	0	.00	0	.00	73	.21
17	0	.00	0	.00	0	.00	0	.00	0	.00	78	.21
18	0	.00	0	.00	0	.00	0	.00	0	.00	57	.20
19	0	.00	0	.00	0	.00	0	.00	0	.00	80	14
20	0	.00	0	.00	0	.00	0	.00	0	.00	132	.31
21	0	.00	0	.00	0	.00	0	.00	0	.00	79	.19
22	0	.00	0	.00	0	.00	0	.00	0	.00	70	.16
23	0	.00	0	.00	0	.00	0	.00	0	.00	89	.23
24	0	.00	0	.00	0	.00	0	.00	0	.00	83	.25
25	0	.00	0	.00	0	.00	0	.00	0	.00	64	.18
26	0	.00	0	.00	0	.00	0	.00	0	.00	66	.19
27	0	.00	0	.00	0	.00	0	.00	0	.00	61	.21
28	0	.00	0	.00	0	.00	0	.00	0	.00	77	.24
29	0	.00	0	.00	0	.00	0	.00	---	---	110	.40
30	0	.00	0	.00	0	.00	0	.00	---	---	124	.47
31	0	.00	---	---	0	.00	0	.00	---	---	97	.34
TOTAL	---	0.00	---	0.00	---	0.00	---	0.00	---	0.00	---	19.85

08354800 RIO GRANDE CONVEYANCE CHANNEL AT SAN ACACIA, NM--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEA CON TRA (MG	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN TRATIO (MG/L)	LOAD (TONS/ DAY)	MEAN CONCE TRATI (MG/L	LOAD (TON DAY)	MEAN CONCE TRATI (MG/L	LOAD (TON DAY)	MEAN CONCE TRATI (MG/L	LOAD (TON DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	136	.57	64	e.17	2960	4320	58	.07	0	.00	0	.00
2	143	.58	67	e.18	1400	898	62	.07	0	.00	0	.00
3	156	.61	67	e.20	800	531	60	.07	0	.00	0	.00
4	104	.38	41	e.12	1080	792	18	.00	0	.00	0	.00
5	116	.45	42	e.12	1040	781	0	.00	0	.00	0	.00
6	121	.48	15	e.05	802	614	0	.00	0	.00	0	.00
7	73	.26	8	e.03	1630	1260	0	.00	0	.00	0	.00
8	95	.33	208	e1.0	744	581	0	.00	0	.00	0	.00
9	70	.24	148	e.23	1120	895	0	.00	0	.00	0	.00
10	140	e5.7	80	.11	1270	1020	0	.00	0	.00	0	.00
11	267	e40	84	.11	1570	1210	0	.00	0	.00	0	.00
12	207	e34	82	.11	771	403	0	.00	0	.00	0	.00
13	184	e31	133	.32	116	7.9	0	.00	0	.00	0	.00
14	159	e13	98	.24	102	6.9	0	.00	0	.00	0	.00
15	97	e.29	86	.21	83	e5.4	15	.00	0	.00	0	.00
16	119	e.22	926	603	70	e4.3	11	.00	0	.00	0	.00
17	125	e.37	2040	2520	66	e4.1	0	.00	0	.00	0	.00
18	122	e.30	2950	4810	56	e2.9	2	.00	0	.00	0	.00
19	141	e.27	2580	4580	47	e.10	0	.00	0	.00	0	.00
20	93	e.18	2720	4840	43	e.07	0	.00	0	.00	0	.00
21	85	e.21	4020	6820	44	e.07	0	.00	0	.00	0	.00
22	103	e.25	3280	5260	42	.05	0	.00	0	.00	0	.00
23	92	e.27	5050	7910	41	.05	0	.00	0	.00	0	.00
24	88	e.26	11000	15900	51	.07	0	.00	0	.00	0	.00
25	54	e.19	14200	23200	71	.10	0	.00	0	.00	0	.00
26	81	e.22	8460	14300	83	.12	0	.00	0	.00	0	.00
27	83	e.22	4520	7650	90	.13	0	.00	0	.00	0	.00
28	104	e.28	2930	4990	87	.13	0	.00	0	.00	0	.00
29	71	e.19	3080	5360	67	.10	0	.00	0	.00	0	.00
30	67	e.18	2370	4130	67	.10	0	.00	0	.00	0	.00
31	---	---	3730	6530	---	---	0	.00	0	.00	---	---
TOTAL	---	131.50	---	119406.20	---	13337.59	---	0.21	---	0.00	---	0.00
YEAR		132895.35										

e Estimated

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM

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, 2.0 mi downstream from Rio Salado, and at mile 1,472.6.

DRAINAGE AREA.--26,770 mi^2, approximately, including 2,940 mi^2 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 with satellite telemetry. 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, on April 26, 1996 1,000 ft was added to gage datum. Floodway is bypassed by Socorro main canal north and since Oct. 1958 by conveyance channel.

REMARKS.--Water-discharge records fair except for those estimated, which are poor. Floodway is 1 of 3 channels (stations 08354500, 08354800) carrying flow in valley cross section. For combined monthly flow in acre-ft of floodway, conveyance channel, and Socorro main canal north, see tabulation below. Normal plan was for the floodway to carry flow when combined capacities of conveyance channel (about 2,000 ft^3/s) and Socorro main canal north (about 200 ft^3/s) were 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. No flow at times.

AVERAGE DISCHARGE.--22 years (water years 1937-58), 1,192 ft^3/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 ft^3/s, 660,000 acre-ft/yr, combined flow of floodway, conveyance channel and Socorro main canal north, prior to closure of Cochiti Dam. 28 years (water years 1974-2001). 1,418 ft^3/s, 1,027,000 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 ft^3/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, 2,890 ft^3/s, May 24; minimum daily, 101 ft^3/s, Aug. 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	264	935	740	759	710	849	930	457	927	389	270	250
2	278	1040	710	745	748	853	849	384	1230	373	277	199
3	291	1000	712	730	771	724	816	704	1020	451	275	209
4	295	1060	747	736	742	682	760	876	995	396	274	148
5	317	1030	765	746	694	e708	981	959	937	397	244	127
6	319	886	764	747	692	e631	1000	1140	852	318	276	136
7	341	765	791	739	689	e617	1310	1150	621	279	234	118
8	434	729	766	719	734	669	1250	995	591	251	189	127
9	731	719	756	714	718	682	917	910	728	243	189	127
10	872	743	705	733	743	625	869	1240	718	205	144	127
11	667	718	684	763	764	549	835	1240	542	187	162	157
12	637	693	684	773	759	564	632	959	621	149	318	159
13	675	662	720	773	796	532	544	905	782	155	463	129
14	940	644	694	768	791	526	477	993	1020	167	614	188
15	614	639	692	795	778	548	473	1110	876	164	695	237
16	499	616	796	776	774	538	e406	948	623	139	1060	315
17	794	607	815	782	807	490	e320	997	554	132	784	415
18	742	608	785	777	860	509	e320	1020	519	131	481	331
19	720	601	763	758	853	529	290	974	e338	172	397	289
20	e576	601	768	769	821	479	293	1260	e274	153	321	308
21	e525	625	724	777	822	480	310	1510	266	130	237	238
22	e525	629	677	733	764	462	386	1340	243	131	215	219
23	e528	663	622	722	742	470	512	2650	278	179	145	184
24	e698	667	673	744	744	417	664	2890	271	168	110	153
25	1050	819	726	710	740	419	556	1140	298	144	104	128
26	1180	664	733	694	795	480	547	595	306	137	102	112
27	894	697	732	703	835	498	375	604	374	144	101	110
28	916	733	729	742	842	529	339	537	450	158	103	118
29	1030	743	761	748	---	698	410	490	517	236	149	124
30	1010	747	789	732	---	815	419	558	400	282	104	132
31	925	---	781	701	---	811	---	592	---	292	107	---
TOTAL	20287	22283	22804	23108	21528	18383	18790	32127	18171	6852	9144	5614
MEAN	654	743	736	745	769	593	626	1036	606	221	295	187
MAX	1180	1060	815	795	860	853	1310	2890	1230	451	1060	415
MIN	264	601	622	694	689	417	290	384	243	130	101	110
AC-FT	40240	44200	45230	45830	42700	36460	37270	63720	36040	13590	18140	11140
(+)	46810	44200	45230	45830	42700	47110	50650	96570	58020	28870	32300	25830

CAL YR 2000 TOTAL 218786 MEAN 598 MAX 1380 MIN 240 AC-FT 434000 (+) MEAN 734 AC-FT 533180
WTR YR 2001 TOTAL 219091 MEAN 600 MAX 2890 MIN 101 AC-FT 434600 (+) MEAN 778 AC-FT 564130

e Estimated

(+) Combined flow, in acre-feet, and mean, in cubic feet per second, of Floodway, Conveyance Channel, Socorro Main Canal North.

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.--
SUSPENDED-SEDIMENT DISCHARGE: July 1946 to June 1956, January 1959 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler.

EXTREMES FOR PERIOD OF DAILY RECORD.--
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.--
SEDIMENT CONCENTRATION: Maximum daily mean, 13,300 mg/L, Oct. 26; minimum daily mean, 67 mg/L, May 22.
SEDIMENT LOAD: Maximum daily, 42,500 tons, OCt. 26; minimum daily, 24 tons July 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV													
29...	1420	10.5	17.7	649	756	44	590	10.3	109	8.4	--	--	--
JAN													
04...	1109	--	--	--	755	--	--	--	--	--	--	--	470
04...	1500	6.0	--	660	755	44	600	11.4	106	8.3	--	--	--
FEB													
02...	1145	4.5	5.5	652	742	16	--	11.8	--	--	--	7	2460
MAR													
16...	1215	9.5	13.0	640	539	32	570	10.8	113	8.4	--	82	147
APR													
24...	1530	15.5	25.0	649	702	74	478	8.0	95	8.3	--	--	217
MAY													
22...	1551	1550	31.0	645	1410	760	352	7.4	--	8.2	--	--	673
JUN													
20...	1315	--	--	--	282	--	--	--	--	--	--	--	662
20...	1355	27.0	35.5	648	286	39	424	8.0	119	--	--	--	--
JUL													
17...	1430	--	29.0	--	130	29	--	--	--	--	47	--	--
17...	1600	--	--	--	133	--	--	--	--	--	--	--	69
AUG													
24...	1100	23.0	33.1	--	127	340	645	7.7	--	8.4	340	--	250
SEP													
26...	1355	21.0	--	--	120	--	--	--	--	--	--	--	243
26...	1420	22.0	30.0	648	120	270	627	7.7	104	8.4	230	--	--

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	STREAM WIDTH (FT) (00004)	STREAM DEPTH, MEAN (FT) (00064)	STREAM VELOCITY, MEAN (F/S) (00055)	TEMPERATURE WATER (DEG C) (00010)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)	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)
OCT													
05...	1330	306	101	1.8	1.71	--	94	--	--	--	--	--	--
NOV													
15...	1330	668	160	1.6	2.65	--	625	--	--	--	--	--	--
DEC													
06...	1310	792	160	2.0	2.44	--	2360	--	--	100	--	--	--
JAN													
04...	1109	755	163	2.0	2.30	--	470	--	--	--	--	--	--
MAR													
02...	1430	876	163	2.4	2.21	--	1420	--	--	--	--	--	--
16...	1215	539	161	1.6	2.04	9.5	147	82	100	--	--	--	--
APR													
24...	1530	702	162	1.9	2.27	15.5	217	--	--	--	--	--	--
MAY													
22...	1551	1410	164	3.6	2.41	1550	673	--	--	--	58	66	71
JUN													
20...	1220	286	92.0	1.8	1.78	10.8	98	--	--	--	--	--	--
JUL													
06...	1120	342	97.2	1.8	2.01	24.0	321	96	100	--	--	--	--
AUG													
03...	1345	301	102	1.3	2.23	27.1	4160	--	--	--	65	86	89
SEP													
26...	1355	120	85.0	1.4	.98	21.0	243	--	--	--	--	--	--

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
OCT						
05...	--	67	71	93	100	--
NOV						
15...	--	43	53	89	100	--
DEC						
06...	--	9	15	40	89	98
JAN						
04...	--	34	52	69	97	100
MAR						
02...	--	13	16	36	91	100
16...	--	--	--	--	--	--
APR						
24...	--	37	40	67	100	--
MAY						
22...	75	90	96	99	100	--
JUN						
20...	--	65	69	93	100	--
JUL						
06...	--	--	--	--	--	--
AUG						
03...	96	98	98	99	100	--
SEP						
26...	--	86	86	89	100	--

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)	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)
OCT													
05...	1330	306	101	1.8	1.71	--	.0	2	20	64	80	89	96
NOV													
15...	1330	668	160	1.6	2.65	--	.0	1	26	70	84	89	91
DEC													
06...	1310	792	160	2.0	2.44	--	--	.0	15	85	97	99	99
JAN													
04...	1109	755	163	2.0	2.30	--	--	.0	4	64	88	93	95
MAR													
02...	1430	876	163	2.4	2.21	--	--	.0	7	63	85	91	94
16...	1215	539	161	1.6	2.04	--	--	.0	3	45	73	81	86
APR													
24...	1530	702	162	1.9	2.27	15.5	--	.0	6	48	69	75	80
MAY													
22...	1551	1410	164	3.6	2.41	22.5	1	4	12	44	63	72	79
JUN													
20...	1220	286	92.0	1.8	1.78	--	.0	1	9	51	74	85	91
JUL													
06...	1120	342	97.2	1.8	2.01	24.0	.0	1	13	51	61	65	71
AUG													
03...	1345	301	102	1.3	2.23	27.1	1	10	32	57	60	62	67
SEP													
26...	1355	120	85.0	1.4	.98	21.0	.0	1	6	43	62	73	84

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM (80173)
OCT			
05...	100	--	--
NOV			
15...	92	100	--
DEC			
06...	100	--	--
JAN			
04...	98	100	--
MAR			
02...	95	100	--
16...	92	100	--
APR			
24...	86	94	100
MAY			
22...	87	97	100
JUN			
20...	96	100	--
JUL			
06...	80	93	100
AUG			
03...	75	87	100
SEP			
26...	94	100	--

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	147	105	8020	20300	789	1580	491	1010	548	1050	799	1860
2	120	90	8970	25300	699	1340	464	934	1180	2380	806	1830
3	124	100	7270	19800	765	1470	454	895	1570	3260	376	734
4	261	222	8250	23800	1080	2190	451	897	1680	3370	358	666
5	269	236	11600	32400	1380	2850	455	917	1660	3110	351	e671
6	142	128	3680	8860	1950	4030	417	843	1420	2660	306	e521
7	181	168	1830	3790	1800	3860	364	727	1150	2150	233	e388
8	186	232	2070	4060	1220	2550	348	676	1360	2700	226	422
9	1130	2280	1320	2560	925	1900	334	645	1900	3690	253	467
10	2100	5010	1260	2530	731	1390	397	788	1690	3390	448	771
11	1400	2570	1430	2770	698	1290	1270	2630	1270	2630	411	612
12	3740	7420	1350	2530	622	1150	1610	3360	914	1880	214	326
13	5740	10700	1190	2140	640	1240	1320	2770	731	1570	148	212
14	6900	18000	891	1550	577	1080	792	1640	621	1330	209	298
15	2550	4330	702	1210	531	993	571	1230	816	1720	233	352
16	750	1080	601	1000	637	1370	414	868	685	1430	182	270
17	6510	14000	543	891	702	1550	529	1120	767	1680	148	199
18	4990	10000	470	774	642	1360	476	998	1040	2410	217	298
19	5110	10100	468	762	535	1110	355	733	1020	2370	191	273
20	3210	e4990	464	757	519	1080	346	722	1080	2390	172	222
21	2390	e3390	593	1000	528	1030	433	911	1840	4100	241	314
22	2760	e3910	629	1070	430	787	320	636	1890	3930	227	284
23	3240	e4620	649	1160	398	669	249	486	1110	2230	229	291
24	3080	e5800	602	1080	383	696	236	476	965	1940	191	216
25	7300	23600	963	2180	336	658	238	457	803	1620	193	219
26	13300	42500	1040	1870	321	636	256	480	1040	2250	220	291
27	9850	24100	881	1660	402	794	224	425	1440	3250	331	447
28	8290	20600	694	1370	510	1000	286	575	1160	2680	182	257
29	8510	23600	741	1490	506	1040	356	720	---	---	221	428
30	9130	25100	759	1530	510	1090	373	739	---	---	481	1060
31	7580	19000	---	---	513	1080	344	654	---	---	557	1230
TOTAL	---	287981	---	172194	---	44863	---	30962	---	69170	---	16429

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	763	1930	117	144	210	543	654	688	2570	1910	904	642
2	794	1830	92	96	249	832	477	480	2960	2330	773	417
3	628	1390	198	427	208	576	613	835	4170	3140	675	387
4	559	1150	299	706	211	567	892	972	616	456	394	163
5	678	1810	305	790	206	522	707	761	387	262	348	120
6	740	2030	324	994	202	466	474	409	640	475	1010	372
7	1490	5300	1310	4040	194	326	340	256	8960	5660	1000	324
8	1550	5270	1060	2890	195	312	236	162	4090	2150	884	305
9	1090	2700	584	1440	332	654	185	124	2310	1200	480	163
10	810	1930	548	1820	345	678	136	76	1300	508	195	67
11	545	1240	415	1390	240	353	121	62	2330	1050	668	302
12	361	629	286	750	301	524	89	36	5160	5580	1310	572
13	301	444	243	597	397	839	96	40	11000	13900	915	322
14	241	311	855	2360	473	1300	98	45	8730	15200	1210	624
15	247	316	2870	8570	421	998	100	45	13200	25400	2240	1440
16	189	e207	2820	7350	356	600	78	30	8880	28400	9250	8380
17	151	e130	2550	7210	349	523	69	24	8710	19700	11000	12400
18	113	e98	3240	9080	374	528	68	24	3940	5200	2730	2440
19	136	107	2410	6350	281	e256	103	48	1620	1770	990	777
20	130	103	3920	13500	159	e118	93	39	783	685	5660	4820
21	139	118	5050	20600	99	71	471	168	348	228	4640	2990
22	204	213	2550	9510	67	44	596	226	674	407	4810	2840
23	240	335	1330	11500	104	81	4320	2160	543	218	6580	3250
24	260	467	1050	8440	124	92	2080	969	225	67	5830	2470
25	227	342	463	1660	180	145	730	288	116	33	3460	1190
26	242	359	221	355	175	145	455	170	208	59	5390	1660
27	169	177	232	379	222	225	642	262	292	80	9290	2870
28	102	93	207	303	213	259	495	226	261	73	12600	4030
29	95	106	178	236	468	702	337	211	2070	882	10200	3450
30	106	120	176	266	576	619	576	554	1610	452	6220	2230
31	---	---	170	272	---	---	928	732	694	199	---	---
TOTAL	---	31255	---	124025	---	13898	---	11122	---	137674	---	62017
YEAR		1001590										

e Estimated

08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, NM

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.

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 with satellite telemetry. Datum of gage is 4,454.00 ft above National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to Apr. 29, 1958, at datum 4.19 ft higher.

REMARKS.--Records good except for those estimated, which are poor. Original design and plan were for conveyance channel to carry all flows up to about 2,000 ft^3/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. Flow from the river has been diverted since 1965.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	222	227	220	224	216	231	307	306	285	210	164	130
2	267	224	220	224	214	250	319	264	289	194	269	142
3	240	225	220	223	215	264	318	267	299	208	283	194
4	211	241	218	224	218	268	323	254	306	e271	261	187
5	208	264	219	225	223	302	295	295	291	e268	259	174
6	231	244	217	224	229	340	291	326	287	e269	216	170
7	203	248	196	224	226	331	319	345	323	e273	209	151
8	247	237	211	219	218	356	313	350	290	e259	220	121
9	334	224	243	213	209	353	335	351	262	e261	197	118
10	362	224	236	225	212	316	306	334	265	253	170	117
11	338	229	237	225	212	324	319	340	268	211	166	110
12	364	228	239	226	210	319	298	347	272	211	129	103
13	413	222	237	222	211	303	293	352	260	199	221	147
14	402	213	234	220	212	324	258	376	246	156	275	145
15	368	207	232	220	213	346	265	387	271	112	246	176
16	350	208	232	217	213	325	329	380	301	121	318	188
17	371	211	231	203	214	344	285	336	294	122	326	181
18	300	207	235	186	215	350	273	375	318	135	302	180
19	244	204	228	216	216	339	240	350	315	117	304	211
20	209	211	258	211	213	320	195	381	295	121	287	233
21	218	212	244	211	212	303	192	405	267	163	174	234
22	246	216	233	211	213	311	203	419	199	140	155	229
23	242	215	228	211	212	292	231	408	183	148	148	243
24	255	211	226	210	214	290	217	366	156	238	126	211
25	246	213	225	211	226	276	221	345	173	174	135	165
26	226	216	225	210	219	303	239	364	202	185	148	137
27	217	216	228	212	219	317	253	326	196	205	147	113
28	226	220	229	215	234	286	275	290	194	229	136	114
29	224	221	229	217	---	287	304	321	202	207	136	103
30	235	220	229	216	---	288	323	313	199	193	136	118
31	237	---	229	205	---	306	---	331	---	205	151	---
TOTAL	8456	6658	7088	6700	6058	9564	8339	10604	7708	6058	6414	4845
MEAN	273	222	229	216	216	309	278	342	257	195	207	162
MAX	413	264	258	226	234	356	335	419	323	273	326	243
MIN	203	204	196	186	209	231	192	254	156	112	126	103
AC-FT	16770	13210	14060	13290	12020	18970	16540	21030	15290	12020	12720	9610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2001, BY WATER YEAR (WY)

MEAN	267	493	484	408	402	420	449	521	457	332	283	254
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1965 - 2001	
ANNUAL TOTAL	94379		88492			
ANNUAL MEAN	258		242		397	
HIGHEST ANNUAL MEAN					1137	1973
LOWEST ANNUAL MEAN					.000	1977
HIGHEST DAILY MEAN	418	Mar 22	419	May 22	2200	May 14 1966
LOWEST DAILY MEAN	126	Sep 21	103	Sep 12	.00	Sep 7 1968
ANNUAL SEVEN-DAY MINIMUM	159	Sep 20	123	Sep 8	.00	Sep 7 1968
ANNUAL RUNOFF (AC-FT)	187200		175500		287800	
10 PERCENT EXCEEDS	331		334		1020	
50 PERCENT EXCEEDS	241		227		274	
90 PERCENT EXCEEDS	205		160		.30	

e Estimated

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM

LOCATION.--Lat 33°40'45", long 106°59'42", Socorro County, Hydrologic Unit 13020203, in Pedro Armendaris Grant No. 33, 500 ft downstream of southern pier of the Atchison, Topeka, and Santa Fe Railway Co. bridge, on right bank 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 mi^2, approximately, including 2,940 mi^2 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 with satellite telemetry. Datum of gage is 4,455.19 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records fair except for those estimated, which are poor. Floodway is 1 of 2 channels (station 08358300) carrying flow in valley cross section. Prior to 1950 all flow was in floodway channel. Normal plan was for floodway to carry flow when capacity of conveyance channel (about 2,000 ft^3/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.

AVERAGE DISCHARGE.--36 years (water years 1965-2000), 806 ft^3/s, 583,950 acre-ft/yr. Total flow of river, 105 years (water years 1895-2000), 1,261 ft^3/s, 913,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, since January 1895, about 50,000 ft^3/s, Oct. 11, 1904; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,430 ft^3/s, May 25; Minimum daily discharge, 8.0 ft^3/s, July 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	655	512	e627	546	737	636	98	e1290	206	146	38
2	54	772	507	e627	523	761	809	91	e1370	157	120	45
3	82	924	451	e535	567	785	772	75	1490	159	114	99
4	97	912	433	478	570	619	616	150	1200	164	115	71
5	72	946	464	473	539	521	e567	398	1200	199	121	e60
6	82	770	492	477	482	524	e732	454	1200	169	102	e44
7	87	569	499	471	433	468	823	663	1270	119	118	e42
8	120	483	e535	450	429	441	1250	797	850	102	129	e32
9	105	499	e512	421	439	579	1080	641	719	94	112	e28
10	329	540	470	429	481	490	705	454	925	82	88	e27
11	592	572	417	415	506	512	721	783	931	58	74	e27
12	e429	577	358	432	542	366	738	891	621	33	65	e27
13	e289	e451	363	459	e559	342	545	620	467	19	178	29
14	e398	e449	395	442	e575	312	377	500	486	8.0	469	e36
15	e654	e447	366	440	580	286	295	584	854	20	740	e29
16	e462	e416	352	487	558	297	264	746	724	27	739	e50
17	e267	e398	455	486	542	360	203	625	462	34	1130	e67
18	e449	e375	549	489	560	272	e138	973	358	27	e559	234
19	e490	e337	e535	e469	656	277	e112	1300	344	30	e416	167
20	450	e307	511	461	652	305	104	1200	e194	27	e254	138
21	309	e298	501	460	625	293	77	1510	111	32	e210	158
22	267	362	451	480	617	249	76	1300	114	43	165	132
23	253	368	370	450	614	233	113	1090	94	31	126	e113
24	313	393	292	417	619	236	170	2250	101	21	e100	e117
25	356	440	292	448	589	194	398	2430	85	39	e72	89
26	e965	634	399	443	592	172	322	e1050	105	48	e56	58
27	e764	423	422	461	618	213	266	1090	110	42	e44	45
28	660	435	409	547	739	293	161	1190	134	43	e43	33
29	624	525	e512	548	---	266	91	1060	225	45	e42	31
30	748	528	e584	568	---	453	89	1010	273	55	42	35
31	821	---	e636	560	---	731	---	1130	---	65	54	---
TOTAL	11669	15805	14044	14950	15752	12587	13250	27153	18307	2198.0	6743	2101
MEAN	376	527	453	482	563	406	442	876	610	70.9	218	70.0
MAX	965	946	636	627	739	785	1250	2430	1490	206	1130	234
MIN	54	298	292	415	429	172	76	75	85	8.0	42	27
AC-FT	23150	31350	27860	29650	31240	24970	26280	53860	36310	4360	13370	4170
(+)	39920	44560	41920	42940	43260	43940	42820	74890	51600	16380	16090	13780

CAL YR 2000 TOTAL 124309.0 MEAN 340 MAX 1470 MIN 4.0 AC-FT 246600 (+) MEAN 598 AC-FT 433800
WTR YR 2001 TOTAL 154559.0 MEAN 423 MAX 2430 MIN 8.0 AC-FT 306600 (+) MEAN 665 AC-FT 482100

e Estimated

(+) Combined flow, in acre-feet, and mean, in cubic feet per second, of Floodway and Conveyance Channel.

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.--
SUSPENDED-SEDIMENT DISCHARGE: July 1946 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler.

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.

EXTREMES FOR PERIOD OF DAILY RECORD.--
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.--
SEDIMENT CONCENTRATION: Maximum daily mean, 40,500 mg/L, Aug. 15; minimum daily mean, 61 mg/L July 14.
SEDIMENT LOAD: Maximum daily, 82,400 tons, Aug. 6; minimum daily, 1.4 tons July 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
NOV													
17...	1111	5.0	11.0	648	442	210	656	11.0	102	8.5	--	--	--
30...	1110	5.0	16.0	652	551	200	599	10.5	96	8.4	2	184	.030
DEC													
28...	1215	.00	6.3	653	416	110	595	12.6	101	8.5	--	--	--
FEB													
01...	1346	--	--	--	559	--	--	--	--	--	--	--	--
01...	1500	3.5	6.0	655	551	42	618	11.6	102	--	--	--	--
26...	1200	8.5	14.0	654	592	160	609	10.8	108	8.4	.0	181	.011
27...	1330	10.0	--	--	619	250	595	10.2	--	8.3	--	--	--
MAR													
27...	1500	19.0	22.0	644	204	69	564	9.8	126	8.8	--	--	--
APR													
18...	1200	18.0	21.0	655	129	130	589	9.6	119	8.5	1	170	<.010
25...	0917	17.0	22.0	655	387	220	530	8.6	104	8.4	--	--	--
25...	1130	--	--	--	404	--	--	--	--	--	--	--	--
25...	1145	17.0	--	--	415	--	--	--	--	--	--	--	--
MAY													
21...	1544	21.0	22.5	649	1660	1500	368	6.9	91	8.2	--	--	--
JUN													
19...	1300	27.0	37.9	649	363	110	395	8.1	120	8.7	--	--	--
19...	1320	--	--	--	363	--	--	--	--	--	--	--	--
JUL													
12...	1445	34.0	30.0	653	28	62	597	7.4	124	8.5	8	168	<.010
18...	1115	27.5	25.5	652	29	30	959	7.8	117	8.0	--	--	--
AUG													
22...	1145	--	--	--	144	--	--	--	--	--	--	--	--
22...	1150	23.5	31.0	--	144	6300	680	7.5	--	8.3	--	--	--
SEP													
24...	1520	23.5	--	--	108	--	--	--	--	--	--	--	--
24...	1550	--	--	--	119	9700	--	--	--	--	--	--	--

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CYANIDE TOTAL (MG/L AS CN) (00720)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
NOV													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	.08	<.010	<.20	.79	.530	.380	.340	.120	<.01	170	54.0	9.21	52.7
DEC													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	.04	.030	.21	1.1	.630	.370	.090	.120	<.01	160	50.5	8.89	56.3
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
18...	.02	<.010	.36	.78	.560	.250	.100	.100	<.01	170	52.5	8.83	52.0
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
12...	.05	<.010	<.20	.67	<.020	.140	.030	.030	<.01	170	54.5	8.88	54.9
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYLLIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)
NOV													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	2	5.09	33.1	97.3	.6	26.3	4.6	86.9	<.06	175	.04	<.8	.30
DEC													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	2	5.36	39.2	92.1	.6	23.7	5.2	85.4	<.06	177	.04	<.8	.36
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
18...	2	5.61	35.3	84.8	.6	24.8	5.9	90.8	<.06	146	E.02	<.8	.32
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
12...	2	5.27	33.5	92.4	.6	22.9	6.2	88.5	<.06	129	E.03	<.8	.31
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
NOV													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	2.0	<10	E.06	1.2	5.8	.78	<1.0	3	.13	1	<2.4	<2.6	2.45
DEC													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	1.4	<10	.51	1.0	6.4	.81	<1.0	3	.15	2	<2.4	<2.6	3.25
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
18...	2.8	<10	E.05	1.0	6.0	.70	<1.0	2	.20	1	<2.4	<2.6	3.17
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
12...	1.6	<10	<.08	1.8	6.4	.53	<1.0	1	.18	2	<2.0	<3.0	2.22
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)
NOV								
17...	--	--	--	--	--	--	--	--
30...	155	--	374	--	<.14	--	162	--
DEC								
28...	--	--	--	--	--	--	--	--
FEB								
01...	--	--	--	--	--	1100	--	--
01...	--	--	--	--	--	--	--	--
26...	148	--	369	64	<.14	780	157	270
27...	--	--	--	--	--	1320	--	--
MAR								
27...	--	--	--	--	--	307	--	--
APR								
18...	142	180	352	83	<.01	255	154	150
25...	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	620	--	--
25...	--	--	--	--	--	680	--	--
MAY								
21...	--	--	--	--	--	1730	--	--
JUN								
19...	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	374	--	--
JUL								
12...	152	68	364	84	<.01	113	159	--
18...	--	48	--	--	--	82	--	--
AUG								
22...	--	--	--	--	--	2230	--	--
22...	--	2600	--	--	--	--	--	--
SEP								
24...	--	--	--	100	--	4400	--	--
24...	--	6600	--	--	--	--	--	--

DATE	TIME	NITRO-GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
APR			
18...	1200	.6	210

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	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)
OCT													
04...	1515	113	102	.83	1.35	--	252	--	--	--	--	--	--
NOV													
28...	1330	439	133	1.6	2.04	--	872	--	22	32	41	49	54
DEC													
05...	1330	456	136	1.7	2.00	--	855	--	--	--	--	--	--
FEB													
27...	1330	619	193	1.5	2.15	10.0	1320	--	13	18	24	31	34
MAR													
12...	1445	366	77.0	2.5	1.88	--	454	--	--	--	--	--	--
APR													
25...	1145	415	158	1.4	1.74	17.0	680	--	--	--	--	--	--
MAY													
21...	1544	1660	249	2.2	3.07	21.0	1730	--	34	41	45	51	--
JUN													
19...	1245	363	182	1.2	1.61	--	600	--	--	--	--	--	--
JUL													
02...	1430	150	66.0	1.7	1.35	31.7	704	--	--	--	--	--	--
AUG													
01...	1215	156	66.0	--	1.71	28.0	1050	--	44	57	66	68	--
SEP													
24...	1520	108	109	.74	1.34	23.5	4400	100	75	84	96	97	--

DATE	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)
OCT				
04...	87	92	100	--
NOV				
28...	53	67	87	100
DEC				
05...	58	72	99	100
FEB				
27...	34	50	94	100
MAR				
12...	65	78	100	--
APR				
25...	58	75	100	--
MAY				
21...	78	90	99	100
JUN				
19...	42	49	92	100
JUL				
02...	89	90	97	100
AUG				
01...	74	78	95	100
SEP				
24...	--	--	--	--

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM (80165)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM (80166)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM (80167)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)
OCT											
04...	1515	113	102	.83	1.35	--	.0	5	69	99	100
NOV											
28...	1330	439	133	1.6	2.04	--	.0	1	51	98	100
DEC											
05...	1330	456	136	1.7	2.00	--	.0	3	70	99	100
FEB											
27...	1330	619	193	1.5	2.15	10.0	.0	5	62	98	100
MAR											
12...	1445	366	77.0	2.5	1.88	--	.0	7	84	99	100
APR											
25...	1145	415	158	1.4	1.74	17.0	1	14	87	100	--
MAY											
21...	1544	1660	249	2.2	3.07	21.0	.0	5	75	100	--
JUN											
19...	1245	363	182	1.2	1.61	--	.0	2	64	100	--
JUL											
02...	1430	150	66.0	1.7	1.35	21.7	.0	5	70	100	--
AUG											
01...	1215	156	66.0	--	1.71	28.0	.0	4	56	98	100
SEP											
24...	1520	108	109	.74	1.34	23.5	.0	4	54	99	100

Remark codes used in this report:
< -- Less than
E -- Estimated value

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS/ DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	215	e47	5730	10100	1480	2050	1970	e3340	2040	3020	2430	4820
2	215	31	3780	7860	1480	2020	1860	e3150	2510	3620	2640	5430
3	238	53	3770	9450	1840	2240	2410	e3480	4220	6470	3480	7370
4	261	69	3950	9750	1850	2160	1730	2230	3110	4780	5360	8980
5	208	41	3410	8680	1160	1450	1740	2230	2830	4120	6150	8590
6	311	71	3760	7990	1770	2380	1700	2180	2930	3800	4180	5940
7	230	54	2210	3380	2760	3740	1700	2170	2640	3090	3220	4080
8	391	129	7060	9150	3170	e4580	1700	2070	2580	2990	1690	2120
9	377	113	6250	8420	3030	e4190	1170	1340	2240	2660	3020	4840
10	643	574	3980	5800	2140	2720	1550	1800	3010	3920	1580	2120
11	1240	2020	3080	4750	2040	2300	1570	1760	3260	4470	1650	2330
12	1160	e1340	2170	3390	1460	1410	1640	1910	3810	5580	614	620
13	725	e566	2000	e2440	1120	1100	1500	1860	2590	e3910	188	179
14	1390	e1490	1910	e2320	1330	1420	1530	1820	2900	e4500	299	253
15	1960	e3460	1740	e2100	1360	1350	1960	2330	2330	3650	254	200
16	1940	e2420	1440	e1620	1200	1140	1770	2320	2480	3730	286	238
17	1150	e829	1080	e1160	1530	1930	1680	2210	2670	3900	341	339
18	2130	e2580	1160	e1170	1510	2230	1810	2400	3110	4760	236	172
19	2280	e3020	1410	e1280	1690	e2140	1670	e2110	4560	8080	242	182
20	2240	2750	1680	e1390	1670	2300	1960	2440	4460	7860	280	234
21	1870	1560	1110	e893	1870	2530	2150	2680	3760	6350	330	263
22	1780	1300	981	959	2120	2570	2070	2680	3410	5680	382	261
23	1300	886	650	645	1600	1600	2200	2670	2710	4510	383	243
24	1400	1230	955	1020	1120	885	1950	2200	1760	2950	398	254
25	2830	2960	1060	1260	860	676	2050	2490	1480	2350	407	212
26	6260	e16300	2930	5150	1030	1110	1830	2200	1170	1860	350	162
27	8410	e17300	2290	2640	937	1070	1430	1790	1330	2260	242	140
28	13400	23900	928	1090	815	903	2100	3100	1920	3830	630	500
29	8990	15100	1460	2090	1490	e2060	2510	3730	---	---	497	360
30	5250	10600	1930	2750	2080	e3280	2600	3990	---	---	948	1220
31	6660	14800	---	---	2000	e3430	2440	3700	---	---	1770	3510
TOTAL	---	127593	---	120697	---	64964	---	76380	---	118700	---	66162

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN CONC TRAT (MG/	LOAD (TONS/ DAY)	MEAN CONCEN TRATIO (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN TRATIO (MG/L)	LOAD (TONS DAY)	MEAN CONCEN TRATIO (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1420	2470	740	197	1570	e5470	1230	685	961	397	4720	522
2	1410	3100	572	141	1670	e6180	857	364	1500	486	1360	268
3	1300	2780	620	136	2420	9690	935	400	1180	366	13200	3780
4	996	1670	432	198	2600	8410	783	349	2080	647	2990	592
5	1160	e1780	814	877	1670	5420	2590	1380	2730	895	6430	e1050
6	1360	e2690	797	974	2810	8990	1780	816	1610	486	2890	e343
7	1320	2950	957	1740	1750	5980	1290	427	823	269	1560	e177
8	1600	5440	2100	4530	1310	3030	838	231	1030	360	477	e41
9	2120	6170	3010	5230	971	1890	825	210	7060	2210	432	e33
10	1490	2850	2330	2870	1340	3390	680	151	2740	661	372	e28
11	1220	2370	1920	4010	1800	4550	371	59	2160	434	301	e22
12	1220	2430	1740	4180	1080	1900	213	20	2280	400	366	e27
13	967	1450	1340	2280	1900	2360	97	5.3	4900	3350	382	30
14	757	770	1540	2070	1650	2160	61	1.4	17400	22600	358	e35
15	597	480	1450	2280	1580	3630	80	4.5	40500	82400	279	e22
16	466	333	1990	4030	2400	4730	78	5.8	31400	64700	1050	e142
17	431	237	2020	3420	1580	2040	90	8.5	22500	70000	2590	e468
18	413	e154	2940	7840	1260	1220	105	7.8	22700	e34300	11900	7840
19	314	e95	3920	13900	803	768	120	9.6	17500	e19700	7720	3530
20	295	84	5440	17700	526	e276	130	9.4	8370	e5740	5690	2150
21	255	53	5740	23600	252	77	139	12	4020	e2280	5580	2480
22	260	54	4670	16400	201	62	166	20	2670	1200	13800	4990
23	1090	349	4920	14500	145	37	129	11	2990	1010	7490	e2290
24	870	388	2870	17500	168	47	96	5.5	2520	e680	4890	e1540
25	1760	1960	6590	42200	185	43	171	22	1920	e373	3860	897
26	2230	2030	5830	e16500	219	62	406	53	1740	e263	2940	472
27	1450	1080	3110	9100	271	80	245	28	1470	e175	2250	278
28	1290	609	1920	6170	355	129	219	25	2350	e273	1790	162
29	467	116	1680	4920	722	449	179	22	9880	e1120	1810	154
30	419	107	1180	3230	921	694	187	28	11000	1240	1670	157
31	---	---	1470	4490	---	---	375	66	20000	3010	---	---
TOTAL	---	47049	---	237213	---	83764	---	5436.8	---	322025	---	34520
YEAR		1304503.8										

e Estimated

08360500 ELEPHANT BUTTE RESERVOIR AT ELEPHANT BUTTE, NM

LOCATION.--Lat 33°09'15", long 107°11'28", in NW$^1/_4$ 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 mi^2, approximately, including 2,940 mi^2 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 Bureau of Reclamation. A 50,000 acre-ft permanent pool is authorized for recreational purposes.

COOPERATION.--Records provided by 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, 1,306,100 acre-ft, Jan. 30, gage height, 4,372.26 ft; minimum contents, 853,700 acre-ft, Sept. 30, gage height, 4,362.60 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1196500	1209100	1247600	1268800	1304600	1249500	1197500	1139200	1111400	1045900	944400	876600
2	1194100	1210800	1248600	1269800	1303100	1248000	1196100	1135600	1110000	1042900	942000	875800
3	1192600	1213300	1249600	1270800	1302000	1246500	1194600	1133300	1109100	1038600	940000	874700
4	1191200	1216000	1251200	1272300	1300500	1245600	1193200	1129100	1108200	1036400	937600	873200
5	1189800	1217900	1252700	1273800	1298500	1244600	1191300	1127100	1107800	1032600	935600	872400
6	1187800	1221600	1253700	1275300	1295500	1243100	1190300	1126400	1108200	1028700	933600	870600
7	1186400	1223300	1255200	1276300	1293400	1240600	1188000	1126200	1107300	1027000	930500	869100
8	1184000	1223800	1256200	1277800	1288900	1240600	1187500	1123900	1105500	1024000	927700	868700
9	1182500	1224800	1257700	1279600	1287400	1238700	1186500	1122500	1104100	1020600	925300	866000
10	1182100	1226300	1258700	1280300	1286400	1237700	1183700	1121400	1102800	1017200	922600	864900
11	1183000	1227300	1260200	1281800	1284900	1235200	1182700	1120500	1101400	1013400	920200	863800
12	1184500	1228300	1261200	1282300	1281300	1233800	1181300	1119500	1098800	1010400	917500	863400
13	1184500	1229000	1262200	1283400	1277300	1231800	1180400	1118600	1096500	1007100	915500	863000
14	1184900	1230200	1263000	1284900	1274800	1230800	1178500	1117000	1093800	1002900	913600	861500
15	1184900	1231500	1264500	1285900	1271300	1228400	1177100	1116400	1092000	1000400	911600	860800
16	1186400	1232700	1265200	1287900	1269800	1226000	1175600	1115500	1090700	996300	909600	859700
17	1187800	1233000	1266700	1288400	1267800	1224500	1172800	1114100	1088900	992900	908100	858900
18	1188300	1233500	1267500	1289400	1266800	1223100	1170500	1112700	1086700	988800	906900	858200
19	1188800	1234200	1268500	1290400	1265300	1221100	1169100	1111400	1084900	984200	905400	857400
20	1190700	1235200	1270800	1291900	1264400	1220600	1165300	1110500	1082200	980900	903000	857400
21	1192600	1235900	1271800	1293400	1261900	1218700	1161500	1110000	1079600	977200	900700	857800
22	1193600	1237200	1273300	1294400	1259400	1217200	1159200	1110500	1074300	975200	898400	857100
23	1195800	1238200	1274400	1296000	1257400	1215800	1156900	1111400	1071200	971500	896100	856700
24	1196500	1239200	1275600	1297500	1255400	1213900	1154500	1112700	1069000	967400	894200	856300
25	1198000	1239700	1276600	1298500	1254400	1211400	1152200	1114100	1064600	963400	891900	856300
26	1198900	1241700	1277400	1300000	1252900	1208500	1150800	1115500	1060700	958900	888400	856000
27	1200400	1242700	1278900	1303600	1252200	1206100	1149900	1115500	1056700	956900	885400	855600
28	1203300	1243700	1279900	1304100	1251000	1204200	1146600	1114100	1053300	954500	883400	855200
29	1204800	1244900	1282500	1305100	---	1202800	1143900	1113600	1049800	951600	879300	854800
30	1206500	1246600	1284000	1306100	---	1200900	1142000	1113200	1047600	948800	878500	853700
31	1207700	---	1285000	1306100	---	1199400	---	1111800	---	946000	877400	---
MAX	1207700	1246600	1285000	1306100	1304600	1249500	1197500	1139200	1111400	1045900	944400	876600
MIN	1182100	1209100	1247600	1268800	1251000	1199400	1142000	1110000	1047600	946000	877400	853700
(+)	4378.64	4380.22	4381.74	4383.24	4381.04	4378.92	4376.48	4375.16	4372.26	4367.38	4363.86	4362.60
(++)	+8800	+38900	+38400	+21100	-55100	-51600	-57400	-30200	-64200	-101600	-68600	-23700

CAL YR 2000 MAX 1739300 MIN 1182100 (++) -423,200
WTR YR 2001 MAX 1306100 MIN 853700 (++) -345,200

(+) Elevation in feet, at end of month.
(++) Change in contents, in acre-feet.

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 mi^2, approximately, including 2,940 mi^2 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 with satellite telemetry. 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. No flow at times prior to 1929, Mar. 2-4, 1979.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1650	21	14	11	1280	1540	1620	1680	1710	1460	1480	848
2	1630	21	14	9.6	1560	1550	1630	1680	1700	2110	1480	853
3	1080	21	14	13	1550	1560	1630	1700	1700	2140	1490	857
4	832	22	14	14	1530	1550	1630	1710	1660	1450	1500	863
5	833	21	14	15	1770	1550	1620	1720	1660	2140	1510	855
6	835	21	14	16	2130	1580	1620	1720	1660	2130	1500	870
7	833	21	14	17	2060	1550	1620	1730	1670	1410	1500	868
8	828	18	13	18	2440	1550	1640	1730	1670	1410	1510	870
9	825	17	13	20	1550	1550	1650	1740	1670	2150	1500	874
10	829	17	13	21	1530	1570	1620	1740	1670	2150	1500	868
11	714	17	13	22	1520	1570	1640	1720	1580	2130	1510	865
12	613	17	13	23	2420	1580	1630	1720	1680	2060	1520	858
13	616	17	13	24	2380	1620	1630	1710	1650	2180	1540	853
14	610	16	12	25	2420	1590	1630	1710	1650	1400	1530	842
15	595	16	12	27	2440	1590	1630	1720	1650	1390	1530	836
16	234	16	12	28	1560	1590	1630	1720	1660	1880	1530	837
17	22	16	12	30	1530	1600	1640	1720	1680	2090	1550	834
18	20	15	12	31	1510	1590	1640	1730	1690	2120	1560	830
19	20	15	12	33	1520	1590	1640	1740	1720	2140	1570	803
20	20	15	11	34	1540	1040	1650	1750	1720	2160	1600	388
21	20	15	11	36	2210	1600	1640	1740	1740	1430	1600	384
22	21	15	9.5	38	2200	1620	1640	1740	2440	1440	1580	379
23	22	15	9.2	39	1520	1600	1640	1790	1730	2220	1590	377
24	21	14	9.0	43	1530	1590	1640	1800	1750	2180	1590	376
25	21	14	8.7	47	1540	1610	1660	1770	2420	2220	1610	375
26	21	14	8.5	58	1550	1620	1640	1730	2410	2120	1640	374
27	21	15	9.5	53	1540	1610	1650	1710	2380	1460	1650	373
28	22	15	12	54	1550	1610	1650	1710	2190	1460	1660	374
29	21	15	12	56	---	1610	1660	1730	2210	1470	1310	373
30	21	15	11	529	---	1630	1670	1600	1470	1470	838	370
31	21	---	11	768	---	1620	---	1710	---	1470	841	---
TOTAL	13871	507	370.4	2152.6	49880	48630	49130	53420	54190	57040	46319	20327
MEAN	447	16.9	11.9	69.4	1781	1569	1638	1723	1806	1840	1494	678
MAX	1650	22	14	768	2440	1630	1670	1800	2440	2220	1660	874
MIN	20	14	8.5	9.6	1280	1040	1620	1600	1470	1390	838	370
AC-FT	27510	1010	735	4270	98940	96460	97450	106000	107500	113100	91870	40320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 2001, BY WATER YEAR (WY)

MEAN	337	255	302	328	753	1194	1528	1602	1829	1735	1407	799
MAX	2040	2662	2110	1944	3026	2297	2717	7601	6098	4032	2623	2169
(WY)	1987	1942	1987	1987	1986	1989	1942	1942	1942	1995	1924	1939
MIN	2.41	1.25	1.38	.000	3.38	16.6	188	8.32	284	673	155	2.73
(WY)	1986	1972	1994	1918	1955	1983	1977	1957	1964	1964	1954	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1917 - 2001	
ANNUAL TOTAL	395694.9		395837.0			
ANNUAL MEAN	1081		1084		1007	
HIGHEST ANNUAL MEAN					2665	1942
LOWEST ANNUAL MEAN					253	1964
HIGHEST DAILY MEAN	2830	Feb 4	2440	Feb 8	8220	May 22 1942
LOWEST DAILY MEAN	5.0	Jan 16	8.5	Dec 26	.00	Nov 2 1916
ANNUAL SEVEN-DAY MINIMUM	5.1	Jan 12	9.3	Dec 21	.00	Nov 2 1916
ANNUAL RUNOFF (AC-FT)	784900		785100		729400	
10 PERCENT EXCEEDS	2060		1770		2090	
50 PERCENT EXCEEDS	1460		1520		1020	
90 PERCENT EXCEEDS	12		14		5.6	

08362000 CABALLO RESERVOIR NEAR ARREY, NM

LOCATION.--Lat 32°53'47", long 107°17'30", in $SE^1/_4SW^1/_4$ 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 mi^2, approximately, including 2,940 mi^2 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 Bureau of Reclamation.

COOPERATION.--Records provided by 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, 115,100 acre-ft, Mar. 9, gage height, 4,158.36 ft; minimum contents, 33,830 acre-ft, Oct. 19, gage height, 4,140.02 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35200	36260	40280	38440	44700	109330	92620	97120	97240	71520	61410	41650
2	36430	36550	40410	38710	46980	110300	92150	97000	96040	71470	60780	39990
3	37220	36790	40470	38710	48520	111220	91800	96880	94740	71420	60320	38110
4	36970	37030	40600	38710	50260	111870	91460	97360	93790	70320	59870	36300
5	36430	37280	40630	38770	52740	112460	91220	98210	93090	70220	59330	34550
6	36200	37770	40730	38840	55730	113250	90760	99050	92390	70020	58710	32680
7	36380	38040	40800	38910	58970	114040	90650	99420	91690	68930	58350	31470
8	36260	38040	40930	39040	62710	114700	90530	99660	91110	67850	57160	30340
9	36430	38070	40990	39240	64960	115100	90650	99540	90530	68050	55990	29270
10	36670	38200	41060	39310	67170	115100	90190	99540	89730	68150	54800	28230
11	37340	38380	41190	39310	69230	115100	90070	99660	88700	67660	53950	27070
12	37830	38570	41250	39380	73250	114970	90300	99180	87340	67360	53450	25440
13	37770	38630	41390	39510	76770	114700	90650	99300	85540	66980	53120	24990
14	37700	38660	41450	39580	80810	113840	91690	99660	83870	65250	52870	24650
15	37640	38820	41520	39650	84650	112330	92390	100400	82450	63360	52540	24450
16	37340	39010	41650	39780	86660	110630	93200	101500	81140	62520	52210	24160
17	35930	39010	41780	39990	88810	108950	93440	102370	79950	62520	52040	23970
18	34450	39130	41810	39990	90880	107280	93200	102990	78460	62520	51960	23770
19	33830	39200	41850	39990	92970	105630	92850	103120	77190	62710	51880	23680
20	34000	39260	41980	40120	95090	103120	92390	103370	75720	62890	51720	23200
21	34220	39390	41980	40190	98330	100640	91920	103120	74170	62150	51310	22300
22	34510	39420	42050	40260	100890	99850	91920	102870	73760	61320	50900	21380
23	34820	39640	42180	40400	102370	99050	91920	102250	72940	61690	50740	20440
24	35080	39670	42180	40400	103620	98450	92150	101880	71620	62240	50580	19220
25	35260	39770	42350	40470	105250	97840	92850	101630	71320	62990	50260	17800
26	35400	39830	42510	40530	106390	97240	93670	101440	71520	64200	49940	16390
27	35490	39890	42510	40810	107410	96400	94260	101130	71420	63830	49230	15260
28	35720	40020	42580	41020	108370	95570	95210	100400	72530	63550	48290	14210
29	35900	40090	42580	41090	---	94260	96160	99540	73660	63080	46910	13250
30	36020	40280	42780	41510	---	93560	96760	98810	72740	62520	45330	12320
31	36200	---	42850	42490	---	92970	---	98080	---	62240	43500	---
MAX	37830	40280	42850	42490	108370	115100	96760	103370	97240	71520	61410	41650
MIN	33830	36260	40280	38440	44700	92970	90070	96880	71320	61320	43500	12320
(+)	4140.84	4142.16	4142.94	4144.12	4157.33	4154.82	4155.46	4155.68	4151.12	4148.96	4144.40	4132.18
(++)	+2310	+4080	+2570	-360	+65880	-15400	+3790	+1320	-25340	-10500	-18740	-31180

CAL YR 2000 MAX 128700 MIN 30650 (++) +540
WTR YR 2001 MAX 115100 MIN 12320 (++) -21,570

(+) Gage height, in feet, at end of month.
(++) Change in contents, in acre feet.

08364000 RIO GRANDE AT EL PASO, TX

(National Water-Quality Assessment Program Station)

WATER-QUALITY RECORDS

LOCATION.--Lat 31°48'10", long 106°32'25", El Paso County, Hydrologic Unit 13030102, on downstream side of first pier from left abutment of Courchesne Bridge at El Paso, 1.7 mi upstream from American Dam, 5.6 mi upstream from Santa Fe Street-Juarez Avenue Bridge between El Paso and Cd. Juarez, Chihuahua, and at mile 1,249.

DRAINAGE AREA.--32,207 mi^2, approximately, including 2,940 mi^2 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 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
NOV 15...	0800	10.0	16.0	658	171	1880	8.9	92	8.4	.0	327	.236	.023
DEC 19...	1130	6.5	5.5	670	117	1960	11.7	109	8.3	.0	293	.430	.044
JAN 22...	1130	5.9	8.5	668	97	2010	11.4	105	8.3	.0	288	.599	.059
FEB 14...	1200	12.5	16.0	660	381	1340	9.9	108	8.4	--	176	.143	.018
MAR 07...	0810	13.0	11.0	662	742	986	7.8	86	8.3	.0	225	.084	.008
APR 10...	0825	15.5	12.9	654	989	1030	7.0	82	8.2	.0	214	E.026	.014
MAY 15...	0900	21.4	--	663	879	986	--	--	8.2	.0	205	<.041	.012
JUN 06...	0900	22.0	25.9	661	1290	930	7.0	93	8.2	.0	204	E.021	E.005
JUL 25...	0830	26.7	32.0	668	1200	980	6.3	91	8.3	.0	210	<.040	.007
AUG 14...	0900	26.0	31.0	675	1280	977	6.6	93	8.3	--	189	.075	<.006
28...	1030	26.0	30.0	669	1110	1040	7.2	102	8.3	.0	208	<.040	<.006
SEP 28...	1040	18.0	18.0	671	611	1200	7.4	89	8.3	.0	237	E.038	.008

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)
NOV 15...	.51	.70	1.41	.216	.155	.159	5.6	3.7	410	119	26.8	235	5
DEC 19...	.77	1.1	1.20	.156	.093	.075	6.3	3.7	350	101	25.0	259	6
JAN 22...	1.1	1.4	1.22	.260	.171	.134	5.9	3.8	380	111	26.1	276	6
FEB 14...	.40	1.5	.740	.359	.098	.076	6.9	3.5	210	62.5	13.9	128	4
MAR 07...	.35	1.9	.376	.563	.049	.036	11	3.6	210	61.3	13.5	112	3
APR 10...	.25	.74	.432	.279	.046	.039	6.8	3.5	220	65.2	14.9	120	3
MAY 15...	.24	.47	.329	.264	.035	.027	12	3.4	220	64.8	14.9	113	3
JUN 06...	.22	.70	.161	.238	.043	.029	6.7	3.4	200	58.7	14.1	103	3
JUL 25...	.22	.68	.269	.270	.067	.053	--	--	210	60.0	15.0	113	3
AUG 14...	.27	.74	.366	.253	.039	.071	9.3	2.8	210	59.8	14.5	113	3
28...	.22	.85	E.103	.272	.008	<.020	--	--	230	64.4	15.6	128	4
SEP 28...	.27	.95	.305	<.060	.032	.018	--	--	250	72.1	17.8	148	4

08364000 RIO GRANDE AT EL PASO, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDIMENT, SUSPENDED (MG/L) (80154)
NOV												
15...	10.4	213	389	.7	25.0	<10	31.5	268	1250	1190	88	71
DEC												
19...	10.0	238	408	.7	23.1	<10	76.2	240	1280	1210	48	234
JAN												
22...	11.2	241	414	.7	20.8	<30	117	236	1310	1250	34	284
FEB												
14...	6.71	149	219	.8	11.2	<10	28.9	198	788	681	59	361
MAR												
07...	7.17	103	170	.7	11.4	<10	E2.0	184	600	592	61	622
APR												
10...	7.35	93.7	192	.8	13.7	<10	6.1	176	648	615	--	1720
MAY												
15...	8.15	85.9	182	.8	10.0	<10	<3.2	168	619	582	--	426
JUN												
06...	7.25	78.0	172	.7	11.3	<10	<3.0	167	573	546	--	901
JUL												
25...	7.41	83.9	180	.7	14.1	<10	<3.0	171	605	579	--	302
AUG												
14...	7.23	84.5	180	.7	14.9	<10	<3.0	163	600		--	337
28...	6.62	98.2	199	.7	16.3	<10	E3.0	171	660	631	--	779
SEP												
28...	8.21	115	227	.7	18.8	<10	3.9	194	744	726	--	238

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TERBUTHYLAZINE, WATER, DISS, REC (UG/L) (04022)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	PROMETON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DISSOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	LINDANE DISSOLVED (UG/L) (39341)
NOV													
15...	0800	U	<.010	<.002	<.011	<.015	<.006	<.018	<.003	<.005	<.003	<.005	<.004
DEC													
19...	1130	U	<.010	<.002	<.011	<.015	<.006	<.018	<.003	<.005	<.003	<.005	<.004
JAN													
22...	1130	U	<.010	<.002	<.011	<.015	<.006	<.018	<.003	<.005	<.003	<.005	<.004
FEB													
14...	1200	U	<.010	<.002	<.011	<.015	<.006	E.011	<.003	<.005	<.003	<.005	<.004
MAR													
07...	0810	U	<.010	<.002	<.011	E.004	<.006	<.018	<.003	<.005	<.003	<.005	<.010
APR													
10...	0825	U	<.010	<.002	<.011	<.015	<.006	<.018	<.003	<.005	<.003	E.002	<.004
MAY													
15...	0900	--	<.010	<.002	<.011	E.005	<.006	<.018	<.003	<.005	<.003	<.005	<.004
JUN													
06...	0900	U	<.010	<.002	<.011	E.005	E.002	<.018	<.003	<.005	<.003	<.005	<.004
JUL													
25...	0830	U	<.010	<.002	<.011	E.006	<.006	<.018	<.003	<.005	<.003	<.005	<.004
AUG													
14...	0900	U	<.010	<.002	<.011	E.005	<.006	E.006	<.003	<.005	<.003	.005	<.004
28...	1030	U	<.010	<.002	<.011	<.015	<.006	<.018	<.003	<.005	<.003	<.005	<.004
SEP													
28...	1040	U	<.010	<.002	<.011	E.004	<.006	E.010	<.003	<.005	<.003	.087	<.004

08364000 RIO GRANDE AT EL PASO, TX--Continued

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MALA-THION, DIS-SOLVED (UG/L) (39532)	PARA-THION, DIS-SOLVED (UG/L) (39542)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)
NOV													
15...	<.005	E.002	E.006	<.007	E.004	<.007	<.002	<.004	<.006	<.002	<.009	<.009	<.011
DEC													
19...	<.005	E.002	<.027	<.007	.010	<.007	<.002	<.004	<.006	<.002	<.009	<.009	<.011
JAN													
22...	<.005	E.002	<.027	<.007	.008	<.007	<.002	<.004	<.006	<.002	<.009	<.009	<.011
FEB													
14...	<.005	E.001	<.027	<.007	.008	<.007	<.002	<.004	<.006	<.002	<.009	<.009	<.011
MAR													
07...	<.005	<.013	<.027	<.007	<.005	<.007	<.002	<.004	<.010	<.002	<.009	<.009	<.011
APR													
10...	<.005	E.001	<.027	<.007	<.005	<.007	<.002	<.004	<.006	<.002	<.009	<.009	<.011
MAY													
15...	<.005	E.003	<.027	<.007	<.005	<.007	<.002	<.004	<.006	<.002	<.009	<.009	<.011
JUN													
06...	<.005	E.003	<.027	<.007	<.005	E.003	<.002	<.004	<.006	<.002	<.009	<.009	<.011
JUL													
25...	<.005	E.007	<.027	<.007	E.003	<.007	<.002	<.004	<.006	<.002	<.009	<.009	<.011
AUG													
14...	<.005	E.012	<.027	<.007	<.005	<.007	<.002	<.004	<.006	<.002	<.009	<.009	<.011
28...	<.005	<.013	<.027	<.007	<.005	<.007	<.002	<.004	<.006	<.002	<.009	<.009	<.011
SEP													
28...	<.005	E.005	.050	<.007	E.002	.026	<.002	<.004	<.006	<.002	E.003	<.009	<.011

DATE	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
NOV													
15...	<.034	<.035	<.006	<.002	<.002	<.016	<.002	<.005	<.010	<.020	<.017	<.004	<.021
DEC													
19...	<.034	<.035	<.006	<.010	<.002	<.016	<.002	<.005	<.010	<.020	<.017	<.004	<.021
JAN													
22...	<.034	<.035	<.006	<.002	<.002	<.016	<.002	<.005	<.010	<.020	<.017	<.004	<.021
FEB													
14...	<.034	<.035	<.006	<.002	<.002	<.016	<.002	<.005	<.010	<.020	<.017	<.004	<.021
MAR													
07...	<.034	<.035	<.006	<.002	<.002	<.016	<.002	<.005	<.010	<.020	<.017	<.004	<.021
APR													
10...	<.034	<.035	<.006	<.002	<.002	<.016	<.002	<.005	<.010	E.126	<.017	<.004	<.021
MAY													
15...	<.034	<.035	<.006	<.002	<.002	E.008	<.002	<.005	<.010	E.324	<.017	<.004	<.021
JUN													
06...	<.034	<.035	<.006	<.002	<.002	E.006	<.002	<.005	<.010	<.020	<.017	<.004	<.021
JUL													
25...	<.034	<.035	<.006	<.002	<.002	<.016	<.002	<.005	<.010	<.020	<.017	<.004	<.021
AUG													
14...	<.034	<.035	<.006	<.002	<.002	<.016	<.002	<.005	<.010	<.020	<.017	<.004	<.021
28...	<.034	<.035	<.006	<.002	<.002	<.016	<.002	<.005	<.010	<.020	<.017	<.004	<.021
SEP													
28...	<.034	<.035	<.006	<.002	<.002	E.005	<.002	<.005	<.010	<.020	<.017	<.004	<.021

08364000 RIO GRANDE AT EL PASO, TX--Continued

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
NOV										
15...	<.002	<.011	<.041	<.005	<.003	<.010	<.007	<.023	<.050	<.006
DEC										
19...	<.002	<.011	<.041	<.005	<.003	<.010	<.007	<.023	<.050	<.006
JAN										
22...	<.002	<.011	<.041	<.005	E.002	<.010	<.007	<.023	<.050	<.006
FEB										
14...	<.002	<.011	<.041	<.005	<.003	<.010	<.007	<.023	<.050	<.006
MAR										
07...	<.002	<.011	<.041	<.005	E.002	<.010	<.007	<.023	<.050	<.006
APR										
10...	<.002	<.011	<.041	<.005	<.003	<.010	<.007	<.023	<.050	<.006
MAY										
15...	<.002	<.011	<.041	<.005	E.001	<.010	<.007	<.023	<.050	<.006
JUN										
06...	<.002	<.011	<.041	<.005	<.003	<.010	<.007	<.023	<.050	<.006
JUL										
25...	<.002	<.011	<.041	<.005	<.003	<.010	<.007	<.023	<.050	<.006
AUG										
14...	<.002	<.011	<.041	<.005	<.003	<.010	<.007	<.023	<.050	<.006
28...	<.002	<.011	<.041	<.005	<.003	<.010	<.007	<.023	<.050	<.006
SEP										
28...	<.002	<.011	<.041	<.005	E.002	<.010	<.007	<.023	<.050	<.006

Remark codes used in this report:
< -- Less than
E -- Estimated value

Null value remark codes used in this report:
U -- Analyzed for, not detected

08377900 RIO MORA NEAR TERRERO, NM

LOCATION.--Lat 35°46'38, long 105°39'27", in $SW^1/_4NE^1/_4$ 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 mi^2.

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.--Records fair except for those estimated, 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	13	e6.8	e6.4	e7.0	e8.0	22	e245	76	13	14	19
2	6.2	11	e6.8	e6.2	e7.5	e8.1	32	e260	68	15	13	17
3	6.0	11	e6.7	e6.3	e7.6	e7.8	42	e275	61	18	18	17
4	6.1	10	e6.8	e6.5	e7.8	e8.0	50	e255	55	14	16	16
5	6.8	10	e7.2	e7.0	e8.0	e7.5	46	e200	50	12	15	16
6	6.0	7.7	e7.4	e7.0	e8.2	e7.0	43	e185	45	11	13	15
7	6.0	7.6	e7.5	e6.8	e8.4	e6.5	35	e170	43	11	13	15
8	7.1	9.2	e7.7	e6.7	e8.7	e6.3	33	e175	45	10	13	14
9	6.7	e11	e7.1	e6.8	e8.2	e6.2	33	e180	38	9.2	16	14
10	6.3	e12	e6.9	e7.1	e7.9	e6.4	35	e200	32	8.7	28	13
11	6.3	e8.7	e7.3	e7.2	e7.8	e6.6	34	e220	29	9.2	24	13
12	19	e7.9	e6.8	e7.0	e7.8	e6.7	30	e230	27	9.7	43	12
13	15	e8.0	e6.9	e7.8	e7.8	8.7	26	e250	25	9.7	39	12
14	10	e7.8	e7.2	e7.6	e8.2	7.6	26	e260	24	13	67	13
15	8.2	e8.0	e7.3	e7.6	e8.0	12	30	e270	22	10	66	11
16	7.3	e8.4	e6.7	e7.7	e7.7	11	39	e280	21	8.9	64	11
17	6.8	e8.5	e6.3	e7.6	e7.4	8.7	54	e275	20	8.5	51	11
18	6.5	e8.5	e6.0	e7.6	e7.2	7.0	e71	e270	20	8.7	43	10
19	6.3	e8.1	e5.7	e7.7	e7.4	8.6	e100	e265	18	9.5	37	9.8
20	5.9	e7.5	e6.4	e7.7	e7.8	9.4	e150	e260	17	9.6	33	9.2
21	5.8	e7.3	e6.5	e7.7	e8.0	14	e140	e230	16	11	29	9.4
22	6.7	e7.3	e7.2	e7.8	e7.9	20	e130	e200	16	16	27	11
23	17	e7.5	e7.0	e7.8	e7.4	22	e120	e180	15	10	24	9.4
24	27	e7.7	e6.8	e7.8	e7.3	23	e100	e155	15	11	22	9.4
25	20	e7.7	e7.0	e8.0	e8.2	25	e105	135	17	15	21	10
26	14	e7.5	e7.0	e7.6	e8.0	30	e120	128	17	17	20	9.5
27	12	e7.3	e6.8	e7.5	e6.8	31	e140	121	17	16	19	8.6
28	25	e7.1	e6.7	e7.6	e7.7	26	e150	115	14	14	18	8.2
29	25	e6.9	e6.7	e7.7	---	22	e185	107	14	11	19	7.8
30	21	e6.9	e6.7	e7.5	---	19	e200	96	13	11	17	7.6
31	17	---	e6.6	e7.2	---	18	---	86	---	13	18	---
TOTAL	345.6	257.1	212.5	226.5	217.7	408.1	2321	6278	890	363.7	860	358.9
MEAN	11.1	8.57	6.85	7.31	7.78	13.2	77.4	203	29.7	11.7	27.7	12.0
MAX	27	13	7.7	8.0	8.7	31	200	280	76	18	67	19
MIN	5.8	6.9	5.7	6.2	6.8	6.2	22	86	13	8.5	13	7.6
AC-FT	685	510	421	449	432	809	4600	12450	1770	721	1710	712

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

MEAN	14.4	10.8	7.11	6.08	6.55	12.5	36.6	130	87.1	29.7	44.7	26.8
MAX	25.2	36.8	13.3	9.82	13.2	41.3	88.4	319	263	73.1	159	84.5
(WY)	1986	1999	1985	1986	1995	1989	1985	1973	1997	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001	
ANNUAL TOTAL	6069.8		12739.1			
ANNUAL MEAN	16.6		34.9		34.6	
HIGHEST ANNUAL MEAN					65.3	1973
LOWEST ANNUAL MEAN					11.6	1974
HIGHEST DAILY MEAN	104	May 5	280	May 16	755	Jun 8 1997
LOWEST DAILY MEAN	3.5	Jan 5	5.7	Dec 19	.90	Jan 12 1964
ANNUAL SEVEN-DAY MINIMUM	3.9	Jan 3	6.2	Oct 1	.97	Jan 10 1964
MAXIMUM PEAK FLOW			284	May 16	937	May 22 1991
MAXIMUM PEAK STAGE			[a]2.80	May 16	4.15	Jun 8 1979
INSTANTANEOUS LOW FLOW					.90	Jan 12 1964
ANNUAL RUNOFF (AC-FT)	12040		25270		25030	
10 PERCENT EXCEEDS	32		117		84	
50 PERCENT EXCEEDS	10		11		14	
90 PERCENT EXCEEDS	5.8		6.8		5.0	

e Estimated
a From floodmark.

08378500 PECOS RIVER NEAR PECOS, NM

LOCATION.--Lat 35°42'30", long 105°40'55", in NE$^1/_4$NE$^1/_4$ 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 mi^2.

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 with satellite telemeter. 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 those estimated, which are poor. Diversions for irrigation of about 75 acres, 1959 determinations, upstream from 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	43	e21	e21	e23	43	75	461	262	68	49	73
2	21	39	e21	e19	e25	35	102	534	241	71	67	59
3	21	39	e21	e19	e26	36	126	545	226	86	112	57
4	22	38	e20	e19	e26	37	146	488	213	77	82	56
5	24	38	e19	e21	e28	33	139	413	201	63	65	52
6	22	32	e19	e23	e29	29	136	356	188	57	55	50
7	22	32	e19	e23	e31	30	116	324	188	55	52	48
8	27	e28	e22	e22	e32	31	111	317	191	53	54	46
9	25	e27	e21	e21	e30	33	111	340	166	50	59	45
10	25	e26	e19	e25	e32	35	115	380	153	48	86	44
11	25	33	e21	e24	e32	36	113	432	143	48	82	43
12	64	31	e18	e24	e32	35	104	448	134	48	123	42
13	55	e24	e20	e27	e32	35	92	486	127	57	143	42
14	36	e28	e20	e25	e34	39	92	551	121	64	270	43
15	31	e34	e21	e25	e32	41	104	611	115	51	263	41
16	29	e24	e20	e26	e28	44	132	621	106	46	240	39
17	27	e24	e18	e26	28	42	179	605	102	43	187	39
18	26	e24	e16	e24	29	38	242	603	99	44	156	38
19	26	e25	e15	e25	36	38	303	588	92	44	137	37
20	26	e26	e19	e25	35	43	288	571	88	49	124	35
21	26	e26	e19	e25	37	58	266	533	85	51	111	36
22	28	e26	e22	e25	36	74	252	462	83	56	101	38
23	49	e25	e21	e26	29	78	213	419	79	46	92	34
24	81	e22	e21	e26	32	79	191	393	76	46	83	34
25	62	e23	e22	e28	42	80	197	378	80	69	79	35
26	46	e23	e22	e25	28	95	231	367	84	78	77	33
27	41	e22	e21	e26	27	95	274	360	81	75	72	32
28	74	e23	e21	e26	32	86	308	348	70	59	71	31
29	75	e22	e22	e26	---	76	368	334	68	50	79	31
30	60	e22	e22	e25	---	68	404	307	68	49	69	31
31	51	---	e21	e25	---	67	---	283	---	53	69	---
TOTAL	1168	849	624	747	863	1589	5530	13858	3930	1754	3309	1264
MEAN	37.7	28.3	20.1	24.1	30.8	51.3	184	447	131	56.6	107	42.1
MAX	81	43	22	28	42	95	404	621	262	86	270	73
MIN	21	22	15	19	23	29	75	283	68	43	49	31
AC-FT	2320	1680	1240	1480	1710	3150	10970	27490	7800	3480	6560	2510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2001, BY WATER YEAR (WY)

MEAN	51.9	38.8	29.8	26.7	27.1	41.6	132	342	254	98.2	110	74.8
MAX	217	138	61.9	49.7	45.6	100	366	1158	950	299	402	284
(WY)	1942	1942	1942	1942	1995	1997	1942	1941	1979	1941	1957	1931
MIN	11.9	11.6	9.52	11.2	14.8	18.1	40.1	43.7	28.6	20.5	20.0	10.8
(WY)	1957	1957	1957	1957	1951	1951	1951	1950	1956	1956	1956	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1920 - 2001	
ANNUAL TOTAL	16360		35485			
ANNUAL MEAN	44.7		97.2		103	
HIGHEST ANNUAL MEAN					267	1941
LOWEST ANNUAL MEAN					30.7	1950
HIGHEST DAILY MEAN	206	Aug 19	621	May 16	1980	May 22 1991
LOWEST DAILY MEAN	15	Dec 19	15	Dec 19	6.0	Dec 22 1956
ANNUAL SEVEN-DAY MINIMUM	18	Dec 15	18	Dec 15	6.7	Dec 19 1956
MAXIMUM PEAK FLOW			706	May 15	4500	Sep 21 1929
MAXIMUM PEAK STAGE			3.39	May 15	6.20	Sep 21 1929
INSTANTANEOUS LOW FLOW					2.0	Mar 19 1971
ANNUAL RUNOFF (AC-FT)	32450		70380		74480	
10 PERCENT EXCEEDS	88		278		252	
50 PERCENT EXCEEDS	30		44		48	
90 PERCENT EXCEEDS	21		22		22	

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 mi^2, 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 with satellite telemetry. Elevation of gage is 5,130 ft above National Geodetic Vertical Datum of 1929, from river-profile map. See WSP 1732 for history of changes prior to June 21, 1951.

REMARKS.--Records good except for those estimated, which are poor. Diversions upstream from station for irrigation of about 4,900 acres, 1959 determinations, upstream and downstream from station. Acequia del Bodo Juan Paiz (no measurements made during the water year) 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 ft^3/s, from information by a local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	117	34	e20	e19	60	158	387	200	21	8.4	230
2	1.6	97	34	27	e19	56	167	402	183	12	20	229
3	1.7	84	34	32	e19	53	216	452	155	107	17	228
4	1.9	79	34	34	32	51	268	445	132	29	37	228
5	2.0	76	34	34	37	50	308	422	115	23	36	228
6	1.9	75	34	43	39	49	303	347	102	11	26	226
7	1.9	75	35	42	41	54	296	280	86	17	82	224
8	2.3	70	35	35	52	173	252	255	107	13	78	226
9	1.7	62	35	29	52	248	227	244	171	4.9	76	227
10	1.5	56	36	34	45	190	212	248	119	4.5	76	200
11	1.5	54	34	31	41	149	211	268	88	3.7	77	89
12	5.8	57	38	26	42	124	211	319	73	4.2	77	34
13	11	55	39	25	44	101	197	331	64	4.5	77	e195
14	39	47	41	24	46	93	174	369	52	3.1	76	e115
15	33	43	39	20	54	96	158	421	51	11	77	e40
16	13	55	31	9.3	54	97	166	490	41	8.2	88	e35
17	8.3	49	37	e18	45	98	182	531	26	6.4	80	e30
18	6.2	45	28	e18	44	101	234	530	43	5.1	80	e25
19	6.2	43	30	e18	48	91	315	529	23	4.0	80	19
20	5.7	45	19	e19	53	86	373	546	44	3.2	79	12
21	9.7	43	24	e19	54	85	368	512	23	2.9	79	13
22	12	36	36	e18	54	104	331	452	37	7.1	91	20
23	155	37	39	e18	56	145	322	387	26	6.3	80	16
24	278	36	36	e18	59	184	267	343	19	4.5	79	13
25	162	35	25	e19	57	200	229	311	9.3	6.0	77	11
26	107	34	e15	e20	53	190	217	301	77	13	77	12
27	81	34	e14	e20	52	228	231	280	50	74	86	11
28	320	35	e15	e19	58	232	275	270	42	106	218	11
29	201	35	e15	e19	---	218	316	253	21	42	226	10
30	187	35	e16	e19	---	193	369	234	37	13	231	7.5
31	142	---	e17	e19	---	167	---	211	---	11	237	---
TOTAL	1802.5	1644	933	746.3	1269	3966	7553	11370	2216.3	581.6	2728.4	2964.5
MEAN	58.1	54.8	30.1	24.1	45.3	128	252	367	73.9	18.8	88.0	98.8
MAX	320	117	41	43	59	248	373	546	200	107	237	230
MIN	1.5	34	14	9.3	19	49	158	211	9.3	2.9	8.4	7.5
AC-FT	3580	3260	1850	1480	2520	7870	14980	22550	4400	1150	5410	5880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2001, BY WATER YEAR (WY)

MEAN	61.6	41.1	28.1	25.2	25.1	62.3	176	370	264	130	197	119
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1929 - 2001	
ANNUAL TOTAL	12236.9		37774.6			
ANNUAL MEAN	33.4		103		125	
HIGHEST ANNUAL MEAN					489	1941
LOWEST ANNUAL MEAN					23.4	1974
HIGHEST DAILY MEAN	358	Jul 12	546	May 20	10000	Jun 2 1937
LOWEST DAILY MEAN	1.5	Oct 10	1.5	Oct 10	.00	Jun 16 1934
ANNUAL SEVEN-DAY MINIMUM	1.7	Sep 27	1.8	Oct 1	.00	Jun 16 1934
MAXIMUM PEAK FLOW			738	Oct 28	40300	Jun 1 1937
MAXIMUM PEAK STAGE			5.24	Oct 28	20.34	Jun 1 1937
INSTANTANEOUS LOW FLOW			1.4	Oct 11	.00	Apr 24 1996
ANNUAL RUNOFF (AC-FT)	24270		74930		90860	
10 PERCENT EXCEEDS	76		272		344	
50 PERCENT EXCEEDS	23		51		39	
90 PERCENT EXCEEDS	2.7		9.5		5.0	

e Estimated

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 mi^2, 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 with satellite telemetry. 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 those estimated, which are poor. Diversions for irrigation of about 80 acres, 1959 determination, upstream from station.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	20	8.9	e6.4	e4.3	e11	44	59	14	6.6	7.7	10
2	2.2	17	8.8	e5.8	e5.0	e11	55	63	13	6.6	6.8	8.4
3	2.1	16	8.8	e6.2	e6.0	e11	64	63	12	7.6	7.2	8.1
4	2.1	16	8.4	e7.7	e6.3	12	70	60	11	6.3	7.4	7.5
5	2.2	15	8.4	e8.1	e7.0	13	68	53	10	5.5	6.9	7.0
6	2.3	13	8.1	e9.0	e7.2	14	68	45	9.3	4.7	5.8	6.7
7	2.5	13	8.5	e13	e8.0	15	61	41	9.9	4.4	5.5	6.0
8	2.8	12	7.9	e16	e7.3	18	54	37	13	4.2	5.8	5.8
9	3.2	12	7.8	e13	e6.4	22	50	37	12	4.0	8.2	5.8
10	3.2	12	7.6	e12	e7.1	30	47	39	9.8	3.9	12	5.8
11	3.1	12	7.5	e11	e7.4	31	46	40	8.6	3.8	12	5.6
12	6.7	11	6.9	e14	e7.4	27	43	39	7.8	4.5	16	5.4
13	9.6	11	e7.0	e13	e8.5	30	38	40	7.4	6.6	17	6.1
14	5.7	14	e6.6	e12	e10	39	35	41	7.4	23	39	6.8
15	4.6	11	7.0	e9.0	e8.8	38	36	43	7.4	13	28	6.3
16	4.3	9.1	6.9	e8.0	e8.3	34	40	44	7.3	8.7	79	6.0
17	4.1	11	e6.3	e7.2	e9.0	33	49	42	8.0	7.2	47	6.1
18	4.0	13	e5.8	e5.6	e10	31	62	40	7.8	6.6	28	5.5
19	3.9	11	e7.0	e5.1	e11	30	74	38	7.2	6.6	22	5.1
20	3.9	10	e9.0	e5.3	e12	32	79	36	7.3	6.7	18	5.0
21	4.0	9.1	e6.7	e6.0	e11	39	70	33	7.3	8.1	15	5.0
22	4.3	8.0	e6.0	e6.6	e10	50	63	30	8.2	6.6	13	6.0
23	21	8.1	e7.0	e6.2	e13	55	54	26	7.7	6.2	11	5.7
24	64	11	e7.2	e5.7	e11	55	46	23	7.4	6.0	9.9	5.2
25	31	13	e8.0	e6.5	e10	53	42	22	8.8	8.5	9.1	5.1
26	20	13	e8.9	e6.4	e11	62	44	20	11	7.9	9.4	5.2
27	16	13	e4.5	e6.2	e12	62	49	20	12	8.7	8.6	5.0
28	45	8.6	e5.7	e5.9	e10	56	51	19	8.9	9.1	8.4	4.8
29	50	8.7	e5.3	e6.6	---	49	56	17	7.7	7.9	9.0	4.6
30	33	9.0	e5.3	e6.7	---	44	59	15	7.1	6.8	8.5	4.5
31	25	---	e6.0	e6.4	---	43	---	15	---	7.0	7.7	---
TOTAL	388.1	360.6	223.8	256.6	245.0	1050	1617	1140	276.3	223.3	488.9	180.1
MEAN	12.5	12.0	7.22	8.28	8.75	33.9	53.9	36.8	9.21	7.20	15.8	6.00
MAX	64	20	9.0	16	13	62	79	63	14	23	79	10
MIN	2.1	8.0	4.5	5.1	4.3	11	35	15	7.1	3.8	5.5	4.5
AC-FT	770	715	444	509	486	2080	3210	2260	548	443	970	357

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2001, BY WATER YEAR (WY)

MEAN	12.6	10.1	6.79	5.67	5.96	13.0	35.5	55.4	22.9	16.5	32.5	20.8
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1926 - 2001	
ANNUAL TOTAL	3035.5		6449.7			
ANNUAL MEAN	8.29		17.7		19.9	
HIGHEST ANNUAL MEAN					80.7	1941
LOWEST ANNUAL MEAN					2.53	1956
HIGHEST DAILY MEAN	64	Oct 24	79	Apr 20	1580	Sep 10 1991
LOWEST DAILY MEAN	2.1	Jun 16	2.1	Oct 3	.20	Sep 21 1956
ANNUAL SEVEN-DAY MINIMUM	2.2	Sep 30	2.2	Oct 1	.21	Oct 8 1956
MAXIMUM PEAK FLOW			516	Aug 16	[a]7120	Aug 2 1966
MAXIMUM PEAK STAGE			3.58	Aug 16	[b]9.70	Aug 2 1966
INSTANTANEOUS LOW FLOW					[c].20	Sep 21 1956
ANNUAL RUNOFF (AC-FT)	6020		12790		14410	
10 PERCENT EXCEEDS	16		47		45	
50 PERCENT EXCEEDS	5.8		9.0		7.9	
90 PERCENT EXCEEDS	2.7		5.1		2.8	

e Estimated
a From rating curve extended above 500 ft^3/s, on basis of slope-area measurements at gage heights 5.25, 8.25 and 9.7 ft.
b From floodmarks.
c Also occurred, Oct. 6-9, 1922, Sept. 21, Oct. 9-14, 1956, and Dec. 13, 1964.

08382500 GALLINAS RIVER NEAR COLONIAS, NM

LOCATION.--Lat 35°10'55", long 104°53'59", Guadalupe County, Hydrologic Unit 13060001, in Anton Chico Grant, 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 mi^2, 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 fair except for those estimated, 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 ft^3/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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	20	10	8.1	11	17	15	e8.2	1.6	e1.3	e.05	.00
2	.00	16	10	9.1	8.7	20	14	e8.4	1.5	e1.0	e.00	.00
3	.00	14	10	7.9	10	21	13	e8.6	2.0	e.70	e.00	.00
4	.00	14	10	8.3	11	21	13	e8.8	1.6	e.40	e.00	.00
5	.00	13	9.7	9.5	11	22	13	e9.0	2.9	e.10	e.00	.00
6	.00	12	9.3	11	15	22	13	e9.4	2.2	e.09	e.00	.00
7	.00	14	9.4	11	16	20	13	e9.8	.43	e.08	.00	.00
8	.00	14	9.3	10	68	45	13	e10	e1.0	e.07	.00	.00
9	.00	13	9.1	9.3	65	410	13	e10	e3.0	e.06	.00	.00
10	.00	13	9.1	9.5	47	182	13	e11	e1.5	e.06	.00	.00
11	.00	13	9.0	10	33	83	11	e12	e1.0	e.50	.00	.00
12	.00	13	8.6	9.5	29	49	11	e14	e.80	e.70	.00	.00
13	.00	13	8.5	8.5	33	37	11	e16	e.70	e2.2	.00	e.00
14	.00	12	8.8	8.6	56	30	11	e18	e.60	e2.5	.00	e15
15	.00	12	8.6	8.4	88	26	11	16	e.60	e1.7	.00	e9.0
16	.00	11	8.7	9.1	57	24	10	14	e.50	e1.3	.00	e7.0
17	.00	10	8.4	7.9	39	23	9.0	10	e.50	e1.0	.00	e5.0
18	.00	9.8	8.0	6.7	30	23	11	8.6	e.40	e.90	.00	e3.2
19	.00	9.5	7.2	7.5	27	24	10	8.3	e.40	e1.2	.00	e1.5
20	.00	9.0	5.9	8.4	30	22	9.5	8.3	e.40	e1.4	.00	e1.0
21	.00	9.1	7.1	8.9	25	21	8.8	6.5	e.30	e1.5	.00	e.50
22	.00	9.0	8.6	8.5	22	18	8.0	5.6	e.30	e1.2	.00	e.20
23	28	10	8.4	11	21	18	8.2	4.6	e.30	e1.0	.00	e.10
24	200	11	8.9	9.5	19	17	8.1	6.0	e.20	e.90	.00	e.00
25	62	9.9	8.1	9.7	19	18	8.0	4.5	e.20	e.80	.00	e.00
26	27	11	9.2	9.5	17	18	7.5	3.0	e2.5	e.70	.00	e.00
27	17	10	6.2	9.9	16	18	7.2	4.6	e2.3	e.60	.00	e.00
28	84	10	6.8	8.9	16	19	7.2	3.3	e1.6	e.50	.00	e.00
29	273	10	9.7	8.3	---	19	8.1	2.6	e1.2	e.40	.00	e.00
30	52	10	8.0	10	---	17	e8.0	2.2	e1.4	e.30	.00	e.00
31	29	---	7.9	13	---	16	---	1.8	---	e.10	.00	---
TOTAL	772.00	355.3	266.5	285.5	839.7	1320	316.6	263.1	33.93	25.26	0.05	42.50
MEAN	24.9	11.8	8.60	9.21	30.0	42.6	10.6	8.49	1.13	.81	.002	1.42
MAX	273	20	10	13	88	410	15	18	3.0	2.5	.05	15
MIN	.00	9.0	5.9	6.7	8.7	16	7.2	1.8	.20	.06	.00	.00
AC-FT	1530	705	529	566	1670	2620	628	522	67	50	.1	84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2001, BY WATER YEAR (WY)

MEAN	13.1	6.28	4.01	3.47	4.50	6.15	16.3	17.9	18.2	39.6	60.9	23.1
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	.002	.000
(WY)	1953	1952	1952	1951	1951	1951	1951	1952	1951	1964	2001	1951

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1951 - 2001	
ANNUAL TOTAL	2611.94		4520.44			
ANNUAL MEAN	7.14		12.4		18.1	
HIGHEST ANNUAL MEAN					66.6	1958
LOWEST ANNUAL MEAN					.85	1978
HIGHEST DAILY MEAN	273	Oct 29	410	Mar 9	2640	Aug 11 1981
LOWEST DAILY MEAN	.00	May 10	.00	Oct 1	.00	Jan 1 1951
ANNUAL SEVEN-DAY MINIMUM	.00	May 10	.00	Oct 1	.00	Jan 1 1951
MAXIMUM PEAK FLOW			786	Oct 28	[a]13700	Jul 11 1982
MAXIMUM PEAK STAGE			6.00	Oct 28	19.67	Jul 11 1982
INSTANTANEOUS LOW FLOW					.00	Jan 1 1951
ANNUAL RUNOFF (AC-FT)	5180		8970		13100	
10 PERCENT EXCEEDS	13		22		27	
50 PERCENT EXCEEDS	4.2		8.4		1.3	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
a From rating curve extended 1,900 ft^3/s, by slope-area measurements at gage heights 8.64 ft, 12.74 ft, 16.65 ft and 27.20 ft.

08382600 PECOS RIVER ABOVE CANON DEL UTA NEAR COLONIAS, NM

LOCATION.--Lat 35°05'29", long 104°48'00", in 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 mi^2, approximately.

PERIOD OF RECORD.--January 1976 to current year.

GAGE.--Water-stage recorder with satellite telemetry. 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 poor. 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. No flow some days most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	139	e.43	e.20	e.16	e1.1	e154	254	111	1.9	1.8	53
2	e.26	116	e.42	e.17	e.14	e1.0	e156	249	98	1.9	1.9	36
3	e.23	97	e.42	e.15	e.16	e.09	e158	319	85	2.0	2.0	34
4	e.21	78	e.43	e.12	e.22	e.08	e162	365	64	55	2.1	13
5	.18	68	e.43	e.10	e.23	e.06	175	355	45	5.4	2.0	10
6	.17	51	e.46	e.08	e.24	e.05	182	280	18	3.4	1.9	8.5
7	.15	48	e.49	e.07	e.27	e.04	181	211	3.8	2.4	2.0	7.2
8	e.16	51	e.49	e.07	e.30	6.0	179	183	3.7	2.8	2.2	8.5
9	e.14	48	e.48	e.06	e.28	565	169	172	36	2.8	94	6.3
10	e.12	37	e.48	e.06	e.25	377	149	166	83	2.8	38	5.3
11	e.11	24	e.48	e.05	e.22	235	139	165	51	2.7	18	5.2
12	e.11	26	e.46	e.05	e.21	147	139	181	16	2.7	98	5.0
13	e.10	e23	e.47	e.05	e.23	110	143	188	9.7	2.9	116	8.3
14	e.11	e20	e.46	e.05	e.26	93	131	238	8.7	2.8	857	187
15	e.10	e.53	e.47	e.05	e.30	97	117	282	11	3.1	861	48
16	e.10	e.48	e.45	e.05	e.25	100	109	341	11	2.6	512	32
17	e.09	e.49	e.45	e.12	e.20	98	109	408	8.2	2.6	562	21
18	e.10	e.48	e.44	e.25	e.15	98	125	416	8.1	2.6	295	15
19	e.10	e.48	e.44	e.26	e.11	95	167	423	8.1	2.2	161	11
20	e.09	e.47	e.44	e.27	e.09	77	210	463	8.0	3.0	105	9.2
21	e.20	e.46	e.39	e.27	e.08	52	222	418	8.1	2.1	63	8.9
22	e5.0	e.46	e.39	e.27	e.07	51	212	393	7.9	1.9	50	7.6
23	e150	e.47	e.35	e.27	e.04	81	e190	301	6.4	1.8	47	5.4
24	e640	e.48	e.35	e.26	.02	120	e180	238	5.7	1.7	33	3.6
25	e200	e.49	e.34	e.26	e.04	136	e170	203	5.5	1.5	21	3.5
26	e150	e.46	e.33	e.26	e.06	141	154	178	4.4	1.6	13	3.1
27	121	e.46	e.30	e.25	e.07	148	154	164	38	1.3	12	2.6
28	200	e.44	e.31	e.23	e.09	e149	167	140	9.9	33	11	2.5
29	716	e.44	e.27	e.22	---	e150	183	145	3.2	68	97	2.1
30	288	e.43	.25	e.20	---	e150	232	137	2.3	45	114	1.7
31	192	---	.24	e.18	---	e152	---	126	---	2.0	52	---
TOTAL	2665.15	833.52	12.61	4.95	4.74	3430.42	4918	8102	778.7	267.5	4245.9	564.5
MEAN	86.0	27.8	.41	.16	.17	111	164	261	26.0	8.63	137	18.8
MAX	716	139	.49	.27	.30	565	232	463	111	68	861	187
MIN	.09	.43	.24	.05	.02	.04	109	126	2.3	1.3	1.8	1.7
AC-FT	5290	1650	25	9.8	9.4	6800	9750	16070	1540	531	8420	1120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2001, BY WATER YEAR (WY)

MEAN	25.9	26.5	8.10	4.33	5.71	38.5	103	320	271	104	177	82.9
MAX	139	160	42.0	19.0	73.4	192	382	736	1057	418	1062	660
(WY)	1986	1999	1987	1987	1987	1985	1987	1979	1995	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1976 - 2001	
ANNUAL TOTAL	7475.30		25827.99			
ANNUAL MEAN	20.4		70.8		100	
HIGHEST ANNUAL MEAN					245	1991
LOWEST ANNUAL MEAN					12.2	2000
HIGHEST DAILY MEAN	716	Oct 29	861	Aug 15	2960	Aug 11 1981
LOWEST DAILY MEAN	.09	Oct 17	.02	Feb 24	.00	Jan 1 1976
ANNUAL SEVEN-DAY MINIMUM	.10	Oct 14	.05	Jan 10	.00	Jan 1 1976
MAXIMUM PEAK FLOW			3160	Aug 14	[a]12400	Jun 20 1982
MAXIMUM PEAK STAGE			9.32	Aug 14	11.53	Jul 11 1996
INSTANTANEOUS LOW FLOW			.02	Feb 24	.00	Jan 1 1976
ANNUAL RUNOFF (AC-FT)	14830		51230		72750	
10 PERCENT EXCEEDS	48		195		311	
50 PERCENT EXCEEDS	2.9		5.2		7.5	
90 PERCENT EXCEEDS	.40		.11		.00	

e Estimated
a From rating curve extended above 1,200 ft^3/s, on basis of step-backwater analysis of channel.

08382650 PECOS RIVER ABOVE SANTA ROSA LAKE, NM

LOCATION.--Lat 35°03'35", long 104°45'41", in NE$^1/_4$SE$^1/_4$SE$^1/_4$ 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 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1976 to current year. Prior to October 1979, published as "above Los Esteros Reservoir."

REVISED RECORD.--WRD NM-99-1: 1999 (M), (mean daily values).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,760 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good except for those estimated, 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	165	17	19	17	24	122	340	142	23	22	55
2	19	124	17	18	17	24	106	320	127	24	20	30
3	19	97	18	19	17	24	119	401	99	24	17	31
4	20	77	19	19	19	19	181	460	76	61	17	22
5	20	65	19	19	19	17	261	496	58	27	17	22
6	21	56	19	19	18	16	285	399	41	22	18	20
7	21	58	20	19	18	15	274	290	30	23	18	20
8	22	67	26	19	19	26	257	209	30	23	19	21
9	21	63	22	19	65	828	211	e150	43	23	119	21
10	21	50	21	17	69	538	186	e130	96	22	61	20
11	20	42	22	17	49	353	169	e120	64	21	34	19
12	20	37	22	17	35	203	159	e130	36	21	113	18
13	18	37	22	15	32	121	156	e190	29	22	141	19
14	19	32	22	16	39	83	133	e230	27	24	1050	156
15	18	24	21	16	72	63	104	e290	26	24	1200	95
16	18	15	22	17	106	72	92	e350	24	22	711	20
17	18	15	21	16	70	76	89	e460	24	23	780	15
18	19	17	21	16	39	75	120	e480	25	22	448	13
19	19	15	22	16	26	70	197	535	24	20	268	12
20	18	14	22	17	23	60	292	577	25	20	169	12
21	20	14	22	17	30	45	336	530	25	21	96	13
22	20	15	22	17	23	39	315	e490	26	22	66	12
23	e80	14	21	17	20	53	260	e380	25	22	49	13
24	e950	16	20	17	20	97	228	321	25	22	29	14
25	459	19	21	18	21	144	179	268	26	22	22	14
26	217	16	22	18	22	159	147	e250	27	22	19	14
27	e180	17	21	19	19	166	143	233	52	22	19	15
28	140	18	21	18	21	202	172	208	32	35	19	16
29	e1100	17	21	17	---	203	221	198	33	85	88	15
30	e340	16	20	17	---	185	300	181	26	56	221	15
31	251	---	19	17	---	150	---	162	---	27	56	---
TOTAL	4147	1232	645	542	945	4150	5814	9778	1343	847	5926	782
MEAN	134	41.1	20.8	17.5	33.8	134	194	315	44.8	27.3	191	26.1
MAX	1100	165	26	19	106	828	336	577	142	85	1200	156
MIN	18	14	17	15	17	15	89	120	24	20	17	12
AC-FT	8230	2440	1280	1080	1870	8230	11530	19390	2660	1680	11750	1550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2001, BY WATER YEAR (WY)

MEAN	48.8	48.1	26.4	23.1	24.5	56.2	119	341	290	136	235	115
MAX	147	237	68.7	46.1	106	207	415	768	945	440	1077	683
(WY)	1986	1999	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1976 - 2001	
ANNUAL TOTAL	15164		36151			
ANNUAL MEAN	41.4		99.0		125	
HIGHEST ANNUAL MEAN					265	1991
LOWEST ANNUAL MEAN					26.1	1978
HIGHEST DAILY MEAN	1100	Oct 29	1200	Aug 15	4310	Jul 10 1996
LOWEST DAILY MEAN	14	Nov 20	12	Sep 19	4.5	Apr 27 1978
ANNUAL SEVEN-DAY MINIMUM	15	Nov 17	13	Sep 18	4.7	Apr 23 1978
MAXIMUM PEAK FLOW			3160	Aug 14	[a]16000	Jul 11 1996
MAXIMUM PEAK STAGE			9.32	Aug 14	19.06	Jul 11 1996
INSTANTANEOUS LOW FLOW			10	Sep 19	2.9	Aug 21 1984
ANNUAL RUNOFF (AC-FT)	30080		71710		90860	
10 PERCENT EXCEEDS	56		268		349	
50 PERCENT EXCEEDS	23		24		31	
90 PERCENT EXCEEDS	18		17		10	

e Estimated
a From rating curve extended above 1,500 ft^3/s, on basis of slope-area measurement of peak flow.

08382650 PECOS RIVER ABOVE SANTA ROSA LAKE, NM--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Oct. 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
FEB 21...	1100	12.5	16.0	645	32	27	803	9.2	102	8.1	.0	160	<.010
APR 04...	1100	13.0	22.5	644	181	190	370	10.0	113	8.2	.0	117	.014
JUN 27...	1350	27.5	34.0	645	70	7500	525	6.0	91	8.0	.0	132	.022
AUG 29...	1450	24.5	29.0	644	20	2.7	874	6.9	99	8.2	.0	158	.010

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CYANIDE TOTAL (MG/L AS CN) (00720)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
FEB 21...	.02	<.010	<.20	.32	.270	.040	.020	<.010	<.01	380	122	17.7	20.5
APR 04...	.04	<.010	.22	1.8	.440	.330	<.020	.030	<.01	170	55.0	6.80	8.1
JUN 27...	.07	<.010	.26	4.3	.280	1.30	<.020	<.010	<.01	230	75.2	10.6	12.8
AUG 29...	.03	<.010	<.20	<.20	.040	<.020	<.020	<.010	<.01	460	152	19.1	11.6

DATE	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)
FEB 21...	.5	1.67	9.6	293	.3	8.9	<2.0	91.3	<.06	40	<.04	<.8	.31
APR 04...	.3	1.10	5.6	71.9	.2	8.5	<2.0	69.2	<.06	E11	<.04	<.8	.18
JUN 27...	.4	2.15	7.0	136	.3	8.9	2.0	121	<.06	35	<.04	1.7	.20
AUG 29...	.2	1.53	6.4	330	.3	11.8	<2.0	140	E.03	34	<.04	<.8	.10

DATE	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L) (09511)
FEB 21...	1.8	<10	<.08	9.7	1.2	<.06	<1.0	2	.06	3	<2.4	<2.6	.07
APR 04...	1.2	M	<.08	1.6	.7	.33	<1.0	1	.13	7	<2.4	<2.6	.04
JUN 27...	1.5	<10	<.08	.3	1.2	1.21	<1.0	<1	.14	10	E1.5	<3.0	.07
AUG 29...	1.6	<10	<.08	14.2	1.2	<.60	<1.0	2	E.04	6	E1.5	<3.0	.08

08382650 PECOS RIVER ABOVE SANTA ROSA LAKE, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)
FEB											
21...	1.91	131	--	554	89	<.14	.37	.02	90	137	--
APR											
04...	1.11	96	290	217	80	.02	.24	.01	494	106	200
JUN											
27...	1.23	108	4100	320	99	.07	.29	.02	3160	121	--
AUG											
29...	1.36	129	2.8	611	91	<.01	.33	.02	99	112	--

DATE	TIME	MOIS-TURE CONTENT DRY WT. (% OF TOTAL) (00495)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	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, SEDIMT, BED MA-TERIAL AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)
AUG													
29...	1450	18	.7	310	.1	1.8	1.6	<2	2600	2.7	250	<.01	9

Remark codes used in this report:
< -- Less than
E -- Estimated value

Null value remark codes used in this report:
M -- Presence verified, not quantified

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 mi^2, approximately.

PERIOD OF RECORDS.--April 1980 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Lake is formed by earth and rockfill dam on Pecos River. Storage began on Apr. 22, 1980. Capacity, 439,900 acre-ft, from capacity table effective October 1997, between elevations 4,630.0 ft, invert of outlet structure, and 4,797.0 ft, crest of spillway. Capacity by original survey was 447,100 acre-ft. No dead storage. Lake was created primarily for flood, irrigation, and sediment control. U.S. Army Corps of Engineers satellite telemeter at station.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 120,481 acre-ft, May 8, 1987, elevation, 4,749.71 ft; no storage for many days, July-Sept., 1980 and June-Aug., 1981.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 38,000 acre-ft, May 11, elevation, 4,723.52 ft; minimum, 3,170 acre-ft, Oct. 12, elevation, 4,684.80 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3760	9170	11660	12700	13760	15650	22910	33050	32700	33930	3970	12640
2	3780	9460	11690	12740	13790	15690	23090	33560	32880	33950	4000	12700
3	3810	9680	11720	12760	13830	15740	23300	34200	32980	33950	4040	12750
4	3840	9860	11760	12780	13840	15760	23560	35030	33070	34000	4060	12780
5	3860	10020	11800	12830	13870	15800	23960	35710	33140	34000	4090	12820
6	3890	10180	11830	12860	13910	15830	24390	36280	33170	33990	4120	12820
7	3920	10340	11870	12890	13940	15890	24850	36740	33330	33990	4150	12830
8	3940	10470	11900	12920	13990	16100	25250	37140	33320	33970	4170	12860
9	3970	10590	11930	12960	14110	17020	25650	37420	33400	33370	4300	12880
10	3790	10690	11960	13000	14260	17830	25860	37710	33530	30960	4440	12890
11	3320	10780	11980	13030	14360	18410	26160	38000	33620	27400	4510	12920
12	3170	10860	12030	13060	14440	18770	26450	37820	33580	23800	4650	12950
13	3210	10940	12040	13090	14510	19010	26730	36480	33540	20060	5000	13000
14	3240	11010	12080	13110	14570	19180	26980	34560	33560	16340	5930	13160
15	3270	11070	12120	13150	14710	19330	27190	32740	33560	12670	7660	13430
16	3300	11110	12140	13200	14920	19450	27350	30990	33560	8810	8710	13470
17	3330	11160	12160	13240	15050	19620	27530	29360	33560	5870	9820	13490
18	3360	11170	12200	13270	15150	19760	27760	28450	33510	4340	10580	13520
19	3390	11220	12210	13300	15190	19900	28100	28140	33460	3750	11030	13540
20	3410	11260	12240	13340	15250	20030	28530	27960	33560	3350	11330	13560
21	3450	11300	12280	13370	15300	20110	29030	28190	33580	3380	11500	13600
22	3490	11330	12310	13400	15340	20230	29490	28900	33760	3420	11650	13660
23	3700	11360	12340	13440	15380	20350	29960	29540	33760	3470	11760	13680
24	4620	11420	12370	13480	15400	20480	30400	30040	33770	3500	11810	13700
25	5330	11450	12420	13510	15430	20740	30730	30460	33770	3540	11870	13720
26	5720	11490	12480	13550	15480	21030	31010	30960	33810	3580	11910	13740
27	5970	11520	12540	13620	15530	21330	31300	31310	33860	3610	11940	13770
28	6200	11570	12570	13630	15600	21700	31580	31630	33900	3640	11970	13790
29	7620	11600	12610	13650	---	22070	32060	31890	33930	3780	12030	13810
30	8330	11630	12640	13690	---	22400	32490	32230	33930	3870	12420	13840
31	8830	---	12670	13740	---	22680	---	32490	---	3930	12560	---
MAX	8830	11630	12670	13740	15600	22680	32490	38000	33930	34000	12560	13840
MIN	3170	9170	11660	12700	13760	15650	22910	27960	32700	3350	3970	12640
(+)	4698.94	4702.91	4704.22	4705.52	4707.59	4713.95	4720.50	4720.50	4721.32	4719.58	4704.08	4705.63
(++)	+5090	+2800	+1040	+1070	+1860	+7080	+9810	+5510	-4070	+70	-21440	+1280

CAL YR 2000 MAX 98950 MIN 2800 (++) +3310
WTR YR 2001 MAX 38000 MIN 3170 (++) +10100

(+) Elevation in feet, at end of month.
(++) Change in contents, in acre-feet.

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 mi^2, approximately.

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

GAGE.--Water-stage recorder with satellite telemetry. 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 fair except for those estimated, 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.07	.13	.03	e.01	.02	.02	.02	.03	.01	.04	.05
2	.01	.06	.12	.03	e.01	.02	.02	.02	.02	.01	.02	.02
3	.01	.08	.09	.03	e.01	.02	.02	.02	.01	.01	.03	.02
4	.01	.10	.07	.04	e.01	.02	.02	.13	.01	.01	.03	.01
5	.01	.08	.07	.04	e.01	.02	.02	.07	.01	.00	.02	.01
6	.01	.07	.10	.04	e.01	.02	.02	.02	.01	.00	.01	.01
7	.01	.12	.12	.04	e.01	.02	.02	.02	.01	.00	.01	.00
8	.01	.08	.14	.06	e.02	1.1	.02	.02	.02	.00	.01	.00
9	.01	.07	.17	.07	e.02	.08	.03	.02	.01	349	.01	.00
10	141	.07	.10	.08	e.01	.04	.12	.02	.01	1310	.03	.00
11	304	.07	.01	.10	e.01	.03	.02	.02	.01	1780	.03	.00
12	120	.05	.01	.09	e.01	.02	.01	300	.01	1830	.03	.00
13	.09	.06	.01	.08	.01	.02	.01	927	.01	1880	1.4	.00
14	.09	.07	.01	.07	.01	.02	.01	1200	.01	1870	.39	.01
15	.06	.09	.01	.08	.01	.02	.01	1190	.01	1810	.06	.02
16	.05	.09	.01	.11	.01	.03	.01	1180	.01	1750	.05	.01
17	.04	.10	.01	e.16	.01	.04	.01	1170	.00	1370	.07	.02
18	.03	.09	.01	e.16	.01	.04	.01	812	.01	770	.59	.01
19	.02	.10	.01	e.05	.01	.04	.01	533	.01	368	.06	.01
20	.02	.11	.01	e.02	.01	.04	.01	533	.01	258	.03	.01
21	.04	.11	.01	e.02	.01	.03	.01	236	.01	.33	.02	.02
22	.10	.12	.01	e.02	.01	.04	.01	.27	.03	.22	.01	.13
23	2.1	.13	.01	e.02	.02	.04	.01	.21	.01	.18	.01	.07
24	1.3	.13	.02	e.02	.01	.04	.01	.18	.01	.13	.01	.04
25	.17	.12	.02	e.02	.01	.04	.01	.16	.01	.12	.01	.03
26	.12	.12	.04	e.02	.02	.03	.01	.15	.01	.09	.01	.02
27	.13	.12	.03	e.02	.02	.03	.01	.11	.01	.07	.01	.01
28	.82	.13	.03	e.02	.04	.03	.02	.09	.01	.04	.01	.01
29	.22	1.3	.03	e.01	---	.04	.02	.08	.01	.04	.01	.01
30	.11	.15	.02	e.01	---	.02	.03	.08	.01	.03	.01	.01
31	.08	---	.03	e.01	---	.02	---	.03	---	.04	.03	---
TOTAL	570.68	4.06	1.46	1.57	0.36	2.02	0.56	8082.74	0.35	15346.33	3.06	0.56
MEAN	18.4	.14	.047	.051	.013	.065	.019	261	.012	495	.099	.019
MAX	304	1.3	.17	.16	.04	1.1	.12	1200	.03	1880	1.4	.13
MIN	.01	.05	.01	.01	.01	.02	.01	.02	.00	.00	.01	.00
AC-FT	1130	8.1	2.9	3.1	.7	4.0	1.1	16030	.7	30440	6.1	1.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2001, BY WATER YEAR (WY)

MEAN	13.0	9.89	8.40	15.9	35.1	50.1	89.7	280	270	209	222	135
MAX	112	145	59.0	188	249	277	655	672	1026	561	619	649
(WY)	1993	1987	1987	1996	1995	1998	1989	1989	1995	1983	1994	1988
MIN	.018	.032	.047	.026	.012	.041	.019	.12	.012	.047	.056	.014
(WY)	1990	2000	2001	1999	1999	1999	2001	1997	2001	1989	1996	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1980 - 2001	
ANNUAL TOTAL	51541.10		24013.75			
ANNUAL MEAN	141		65.8		115	
HIGHEST ANNUAL MEAN					215	1995
LOWEST ANNUAL MEAN					35.8	1981
HIGHEST DAILY MEAN	1210	Aug 15	1880	Jul 13	2100	Jun 12 1997
LOWEST DAILY MEAN	.01	Sep 3	.00	Jun 17	.00	Jul 31 1982
ANNUAL SEVEN-DAY MINIMUM	.01	Sep 3	.00	Sep 7	.00	Mar 5 1983
MAXIMUM PEAK FLOW			1930	Jul 13		
MAXIMUM PEAK STAGE			7.64	Jul 13		
ANNUAL RUNOFF (AC-FT)	102200		47630		83460	
10 PERCENT EXCEEDS	997		.22		477	
50 PERCENT EXCEEDS	.09		.02		.60	
90 PERCENT EXCEEDS	.01		.01		.03	

e Estimated

08383500 PECOS RIVER NEAR PUERTO DE LUNA, NM

LOCATION.--Lat 34°43'48", long 104°31'28", in NE$^1/_4$SE$^1/_4$NW$^1/_4$ 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 Sumner Dam, and at mile 719.5.

DRAINAGE AREA.--3,970 mi^2, approximately (contributing area).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1938 to current year.

REVISED RECORDS.--WSP 1512: 1939.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 4,311.34 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 15, 1954, at datum 1.0 ft higher.

REMARKS.--Water-discharge records good except for those estimated, which are poor. Flow regulated by Santa Rosa Lake (station 08382810) 37.7 mi upstream since April 1980. Diversions for irrigation of about 10,280 acres, 1970 determination, upstream from station. Spring discharge from Blue Hole and Agua Negra upstream from station contribute a substantial inflow. Discharge represents inflow to Lake Sumner. Several observations of water temperature and specific conductance were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood since at least 1886 occurred June 2, 1937, when peak at Santa Rosa was 55,200 ft^3/s, and peak inflow to Lake Sumner was about 75,000 ft^3/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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	83	e84	e91	91	e93	85	79	75	60	54	65
2	74	80	e87	e90	90	91	85	72	75	60	52	64
3	72	83	e87	e90	90	89	85	71	69	61	52	66
4	68	89	88	90	87	87	83	85	68	61	56	68
5	66	85	e85	92	87	85	85	96	70	59	56	66
6	62	84	87	e92	87	85	86	81	71	58	58	61
7	65	97	88	90	87	87	85	76	73	56	54	61
8	80	94	e88	89	88	230	83	77	79	57	52	63
9	72	94	89	89	90	139	80	75	105	57	54	67
10	73	97	e87	89	88	102	78	74	78	522	57	69
11	163	95	e87	89	88	94	79	73	71	1930	56	70
12	293	94	e90	90	88	91	84	77	68	2050	57	69
13	155	90	e94	89	88	89	82	426	66	2240	55	68
14	90	91	90	88	88	88	79	1140	63	2360	178	136
15	84	91	e89	89	87	85	79	1230	61	2340	112	142
16	83	89	e87	94	87	86	82	1310	62	2300	67	102
17	81	88	e87	98	88	87	86	1350	62	2130	60	210
18	80	86	e88	92	88	89	87	1310	63	1430	68	93
19	81	90	e88	94	87	88	80	703	61	710	64	80
20	79	90	86	91	87	89	79	659	59	421	63	74
21	79	90	e87	90	88	87	78	634	59	343	60	71
22	83	90	e87	90	e87	86	78	241	63	115	61	73
23	1880	89	e86	91	e87	87	80	115	83	93	61	76
24	1020	86	e87	91	e88	88	81	100	80	86	61	76
25	138	86	e89	91	e88	88	77	90	74	79	62	73
26	90	86	e91	92	e89	87	75	87	89	76	62	72
27	85	86	e93	94	e90	89	76	86	116	76	61	70
28	162	86	e95	95	e91	88	75	84	76	73	59	70
29	205	87	e92	93	---	88	80	82	68	69	80	70
30	96	86	91	93	---	86	84	79	62	74	62	71
31	86	---	e90	92	---	85	---	76	---	73	68	---
TOTAL	5819	2662	2744	2828	2469	2933	2436	10738	2169	20119	2022	2416
MEAN	188	88.7	88.5	91.2	88.2	94.6	81.2	346	72.3	649	65.2	80.5
MAX	1880	97	95	98	91	230	87	1350	116	2360	178	210
MIN	62	80	84	88	87	85	75	71	59	56	52	61
AC-FT	11540	5280	5440	5610	4900	5820	4830	21300	4300	39910	4010	4790

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2001, BY WATER YEAR (WY)

MEAN	106	94.6	95.3	100	116	133	167	351	366	319	336	260
MAX	225	232	147	252	306	373	685	744	1211	725	706	948
(WY)	1986	1987	1987	1996	1994	1998	1989	1989	1995	1983	1994	1988
MIN	73.1	76.3	73.5	80.9	76.7	73.5	67.9	64.0	66.1	72.9	65.2	66.4
(WY)	1988	2000	1991	1993	1984	1989	1984	1982	1991	1989	2001	1990

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1980 - 2001	
ANNUAL TOTAL	85471		59355			
ANNUAL MEAN	234		163		[a]204	
HIGHEST ANNUAL MEAN					318	1995
LOWEST ANNUAL MEAN					122	1981
HIGHEST DAILY MEAN	1880	Oct 23	2360	Jul 14	3510	Oct 17 1985
LOWEST DAILY MEAN	55	Sep 1	52	Aug 2	39	Aug 4 1987
ANNUAL SEVEN-DAY MINIMUM	58	Aug 29	54	Aug 2	43	Jul 29 1987
MAXIMUM PEAK FLOW			5040	Oct 23	[b]48600	Sep 1 1942
MAXIMUM PEAK STAGE			7.07	Oct 23	17.00	Sep 1 1942
INSTANTANEOUS LOW FLOW			50	Aug 8	11	Jan 31 1951
ANNUAL RUNOFF (AC-FT)	169500		117700		147900	
10 PERCENT EXCEEDS	1100		124		606	
50 PERCENT EXCEEDS	87		86		86	
90 PERCENT EXCEEDS	66		62		68	

e Estimated

a Average discharge for 41 years (water years 1939-79), 209 ft^3/s, 151,400 acre-ft/yr, prior to completion of Santa Rosa Dam.

b From rating curve extended above 7,400 ft^3/s, on basis of flow "at Santa Rosa".

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 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
DEC													
11...	1130	6.7	5.0	652	89	2910	11.8	114	8.1	.0	154	.014	.02
MAR													
05...	1130	11.0	17.5	658	85	2910	12.0	128	8.0	.0	148	.021	.06
JUN													
11...	1230	28.0	35.0	653	73	2820	6.9	105	8.0	.0	118	.014	.06
AUG													
20...	1700	28.5	32.5	655	66	2870	7.2	110	8.0	.0	113	<.010	.03

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CYANIDE TOTAL (MG/L AS CN) (00720)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)
DEC													
11...	<.010	<.20	<.20	<.020	<.020	<.020	.010	<.01	1700	556	69.8	118	1
MAR													
05...	<.010	<.20	<.20	<.020	<.020	<.020	<.010	<.01	1700	546	70.6	102	1
JUN													
11...	<.010	<.20	<.20	<.020	<.020	<.020	<.010	<.01	1600	544	67.8	98.5	1
AUG													
20...	<.010	<.20	<.20	<.020	.050	<.020	<.010	<.01	1600	541	68.1	101	1

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)
DEC													
11...	2.08	133	1560	.8	11.6	<2.0	20.6	<.06	113	.40	<.8	.11	6.6
MAR													
05...	2.20	141	1520	.7	10.8	<2.0	18.0	<.06	135	<.04	1.1	1.06	5.2
JUN													
11...	2.33	131	1500	.5	13.4	<2.0	45.9	<.10	105	<.07	<3.2	.78	9.2
AUG													
20...	2.43	140	1550	.6	13.4	<2.0	50.7	<.10	99	<.07	.9	.78	14.0

DATE	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
DEC													
11...	<30	.11	6.5	2.7	2.24	<1.0	4	.06	<1	<2.4	<2.6	2.07	126
MAR													
05...	<30	E.05	6.0	2.7	9.91	<1.0	5	.90	<1	<2.4	<2.6	2.20	121
JUN													
11...	<30	<.20	6.3	2.6	<.10	<2.0	8	E.06	2	<2.0	<3.0	1.84	97
AUG													
20...	<30	<.20	6.1	2.8	<.60	<2.0	8	E.06	2	<2.0	<3.0	1.83	92

08383500 PECOS RIVER NEAR PUERTO DE LUNA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
DEC					
11...	2520	98	<.14	98	106
MAR					
05...	2470	75	<.14	77	112
JUN					
11...	2410	67	<.01	343	88
AUG					
20...	2470	--	<.01	--	81

Remark codes used in this report:
< -- Less than
E -- Estimated value

08384000 LAKE SUMNER NEAR FORT SUMNER, NM

LOCATION.--Lat 34°36'30", long 104°23'04", in $SE^1/_4SW^1/_4$ 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 mi^2, 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 with satellite telemetry. Elevation of gage is National Geodetic Vertical Datum of 1929 (levels by 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, 128,657 acre-ft, from capacity table dated October 2001,(1988 NGDV) between elevation 4,201.89 ft, and elevation 4,283.89, top of flood pool, sill of outlet gate, and elevation 4,275.0 ft, normal operating level. Capacity by original survey was 132,200 acre-ft. Dead storage 2,500 acre-ft. Reservoir is used to store water for irrigation.

COOPERATION.--Records provided by 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, 39,400 acre-ft, June 2, elevation, 4,295.40 ft; minimum, 6,510 acre-ft, Oct. 11, elevation, 4,238.42 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6760	19040	23910	28530	31480	33600	36040	26460	39090	26940	28710	18870
2	6730	19170	24040	28600	31600	33700	35700	26060	39400	26640	28280	18600
3	6690	19330	24170	28670	31690	33800	35200	25680	39070	26230	27930	18430
4	6650	19510	24240	28800	31790	33880	34770	25030	38510	25590	27550	18380
5	6620	19700	24510	28890	31960	33980	34260	24580	37990	25030	27380	18300
6	6580	19870	24680	29030	32030	34060	33800	24110	37370	24470	27180	17990
7	6540	20040	24820	29170	32130	34180	33200	23740	36940	24020	26740	17520
8	6560	20270	24930	29210	32200	34280	33610	23090	36460	23500	26490	17070
9	6580	20480	25120	29300	32150	34360	32010	22330	35960	23380	26210	16880
10	6530	20630	25280	29420	32250	34820	31410	21680	35620	23320	26100	16610
11	6510	20830	25380	29460	32350	35100	31060	21100	35490	23260	26000	16440
12	6550	20980	25510	29580	32440	35410	30600	20780	35260	22910	25680	16330
13	6980	21160	25670	29650	32520	35620	30180	20510	34900	22480	25400	16170
14	7210	21280	25830	29740	32610	35910	29860	20470	34510	22020	25090	15850
15	7240	21480	26050	29830	32760	36120	29740	20690	34110	21700	24720	15540
16	7220	21620	26170	29880	32840	36200	29510	20890	33800	21360	24410	15540
17	7200	21760	26290	29950	32810	36250	29370	21020	33700	20930	24020	14880
18	7180	21940	26430	30020	32880	36410	29140	21560	33630	21720	23760	14580
19	7180	22060	26570	30110	32930	36540	28980	22730	33430	22660	23440	14450
20	7180	22220	26720	30180	32980	36590	28780	23980	33080	23860	23220	14310
21	7180	22380	26840	30300	33060	36700	28710	24990	32640	25090	23010	14090
22	7200	22540	27000	30370	33130	36750	28380	26000	32130	26490	22810	13920
23	7210	22730	27130	30460	33200	36810	28440	27330	31480	27860	22640	13780
24	12840	22880	27300	30580	33230	36910	28420	28890	30910	39030	22400	13610
25	16040	23040	27420	30630	33230	36940	28440	30320	30420	29830	22250	13600
26	16490	23180	27630	30790	33280	37020	28420	31770	29880	30000	22170	13570
27	16740	23310	27860	30860	33330	37100	28280	33110	29530	29880	22150	13560
28	17030	23470	28050	31070	33580	37210	27800	34230	28870	29860	22090	13530
29	17680	23600	28270	31170	---	37290	27200	35130	28220	29760	22000	13500
30	18600	23760	28400	31240	---	37340	26770	36940	27600	29580	21680	13480
31	18830	---	28610	31380	---	36730	---	38050	---	29170	21320	---
MAX	18830	23760	28610	31380	33580	37340	36040	38050	39400	39030	28710	18870
MIN	6510	19040	23910	28530	31480	33600	26770	20470	27600	20930	21320	13480
(+)	4249.62	4252.49	4254.91	4256.15	4257.09	4258.37	4254.04	4258.88	4254.44	4255.17	4251.12	4245.91
(++)	+12090	+4930	+4850	+2770	+2200	+3150	-9960	+11280	-10450	+1570	-7850	-7840

CAL YR MAX 36440 MIN 6510 (++) -20140
WTR YR MAX 39400 MIN 6510 (++) +6740

(+) Elevation, in feet, at end of month.
(++) Change in contents, in acre-feet.

08384500 PECOS RIVER BELOW SUMNER DAM, NM

LOCATION.--Lat 34°36'15", long 104°23'14", sec.2, T.4 N., R.24 E., DeBaca County, Hydrologic Unit 13060003, on left bank 1,200 ft downstream from Sumner Dam, 2.9 mi upstream from Salado Creek, 4.6 mi northeast of Guadalupe, 12.2 mi northwest of Fort Sumner, and at mile 701.7.

DRAINAGE AREA.--4,390 mi^2, approximately (contributing area).

PERIOD OF RECORD.--October 1912 to April 1926, August 1926 to current year. Monthly discharge only for some periods, published in WSP 1312. October 1944 to September 1974, published as "below Alamogordo Dam." Prior to October 1944, published as "near Guadalupe."

REVISED RECORDS.--WSP 1512: 1932. WSP 1632: 1942. WSP 1712: 1944.

GAGE.--Water-stage recorder with satellite telemetry and Parshall flume, with concrete control above top of flume. Elevation of gage is 4,142.99 ft above National Geodetic Vertical Datum of 1929 (Bureau of Reclamation bench mark). Prior to Sept. 10, 1936 at site 1.5 mi upstream at different datum. Sept. 14, 1936, to Mar. 8, 1941, and June 11 to Sept. 21, 1941, at site 0.2 mi downstream at different datums.

REMARKS.--Records good except for those estimated, which are fair. Flow regulated by Lake Sumner (station 08384000) 0.3 mi upstream, since August 1937 and Santa Rosa Lake (station 08382810) 55.5 mi upstream, since April 1980. Diversions for irrigation of about 12,500 acres, 1959 determination, upstream from station. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	.00	27	.35	1.0	3.5	103	110	103	e96	81	155
2	82	.00	28	.30	1.1	3.5	103	110	103	e92	81	155
3	82	.00	29	.35	1.1	3.6	104	111	103	e92	81	155
4	83	.00	30	.42	1.3	3.7	101	112	102	e92	81	154
5	82	.00	13	.53	1.4	4.2	99	112	102	e92	81	154
6	81	.00	2.8	.58	1.5	38	99	113	102	92	81	154
7	83	.07	5.0	.65	1.6	86	99	114	103	92	78	162
8	84	.00	4.8	.73	1.7	47	100	115	102	92	81	160
9	84	.00	4.8	.82	1.9	6.3	100	115	102	92	80	159
10	85	.00	4.8	.88	2.1	6.6	100	109	102	92	81	103
11	85	.10	4.5	.93	2.1	6.8	99	105	102	93	80	74
12	85	.55	4.5	.98	2.2	6.9	99	106	102	961	80	71
13	85	1.2	4.5	.74	2.3	7.1	99	698	102	1370	86	69
14	85	2.2	4.5	.47	5.5	7.3	99	1180	101	1400	90	69
15	85	3.2	4.5	.47	8.2	7.3	99	1170	104	1400	90	69
16	87	4.4	4.5	5.3	11	7.4	99	1170	113	1400	90	70
17	82	5.6	4.6	4.7	14	7.4	99	1170	112	1410	90	86
18	74	7.4	4.5	.48	14	42	99	1280	112	1480	91	101
19	72	6.9	4.6	.46	14	104	98	1510	112	1520	91	108
20	73	9.0	4.6	.52	14	104	98	1510	112	1460	91	109
21	73	11	4.7	.55	14	104	98	1500	111	1140	92	109
22	72	13	4.4	.58	14	105	98	1510	111	95	92	109
23	73	16	4.5	.61	14	105	104	1480	111	92	92	109
24	26	19	4.4	.68	14	105	110	1470	120	92	92	109
25	.00	21	4.5	.74	14	105	110	1480	130	91	93	109
26	.00	22	2.2	.82	14	105	110	1470	129	89	92	110
27	.00	24	.18	.91	15	105	110	1430	130	85	132	113
28	.00	25	.18	.93	7.6	104	110	1420	129	85	162	113
29	.00	25	.23	.91	---	104	110	502	116	85	161	113
30	.00	26	.26	.88	---	105	110	103	e99	82	155	113
31	.00	---	.29	1.0	---	104	---	104	---	81	155	---
TOTAL	1885.00	242.62	220.34	29.27	208.6	1653.6	3066	23489	3282	15435	3003	3444
MEAN	60.8	8.09	7.11	.94	7.45	53.3	102	758	109	498	96.9	115
MAX	87	26	30	5.3	15	105	110	1510	130	1520	162	162
MIN	.00	.00	.18	.30	1.0	3.5	98	103	99	81	78	69
AC-FT	3740	481	437	58	414	3280	6080	46590	6510	30620	5960	6830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2001, BY WATER YEAR (WY)

MEAN	130	35.8	14.0	20.3	33.1	229	265	349	440	322	297	267
MAX	1184	910	170	143	398	605	1317	1404	2905	970	967	2789
(WY)	1942	1943	1942	1942	2000	1944	1942	1973	1937	1983	1994	1941
MIN	29.7	.21	.086	.18	.22	2.05	45.6	61.5	61.5	47.4	50.9	36.7
(WY)	1975	1989	1989	1994	1954	1948	1957	1956	1963	1991	1991	1972

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1937 - 2001	
ANNUAL TOTAL	83714.06		55958.43			
ANNUAL MEAN	229		153		[b]201	
HIGHEST ANNUAL MEAN					710	1941
LOWEST ANNUAL MEAN					91.9	1954
HIGHEST DAILY MEAN	1300	Aug 16	1520	Jul 19	[c]26400	Sep 1 1942
LOWEST DAILY MEAN	.00	Oct 25	[a].00	Oct 25	.00	Sep 1 1937
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 25	.00	Oct 25	.00	Feb 18 1952
ANNUAL RUNOFF (AC-FT)	166000		111000		145500	
10 PERCENT EXCEEDS	1240		155		793	
50 PERCENT EXCEEDS	86		85		84	
90 PERCENT EXCEEDS	4.5		.58		.51	

e Estimated
a Many days.
b Average discharge for 23 years (water years 1913-25, 1927-36), 236 ft^3/s, 171,000 acre-ft/yr, prior to completion of Sumner dam.
c Maximum discharge for period of record, 42,800 ft^3/s, Sept. 1, 1942, by computation of flow over spillway and through outlet gates of Sumner Dam by Bureau of Reclamation; maximum gage height, 13.58 ft, Sept. 22, 1941.

08385000 FORT SUMNER MAIN CANAL NEAR FORT SUMNER, NM

LOCATION.--Lat 34°30'30", long 104°16'40", in $SE^1/_4SW^1/_4SW^1/_4$ 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, 3.25 mi northwest of Fort Sumner, and at Pecos River mile 685.8.

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 with satellite telemetry. Elevation of gage is 4,034.7 ft above National Geodetic Vertical Datum of 1929 (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 good except for those estimated, which are fair. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	e.00	.00	e.00	.00	.00	93	97	94	94	80	110
2	81	e.00	.00	e.00	.00	.00	93	96	94	94	79	110
3	81	e.00	.00	e.00	.00	.00	94	96	94	90	80	109
4	81	e.00	.00	e.00	.00	.00	93	97	93	89	80	109
5	81	e.00	.00	e.00	.00	.00	93	96	92	89	79	109
6	82	e.00	.00	e.00	.00	.00	93	96	92	89	79	109
7	82	e.00	.00	e.00	.00	33	93	96	92	89	77	109
8	84	e.00	.00	e.00	.00	33	85	96	92	89	79	109
9	83	e.00	.00	e.00	.00	.00	91	96	93	87	79	109
10	83	e.00	e.00	e.00	.00	.00	93	95	93	86	80	106
11	83	e.00	.00	e.00	.00	.00	93	90	92	87	80	84
12	84	e.00	.00	e.00	.00	.00	93	90	92	100	81	69
13	86	e.00	.00	e.00	.00	.00	92	95	92	96	81	67
14	86	e.00	.00	e.00	.00	.00	92	88	91	97	92	66
15	86	e.00	.00	e.00	.00	.00	92	90	91	97	100	65
16	86	e.00	.00	e.00	.00	.12	91	93	93	91	101	64
17	85	e.00	e.00	e.00	.00	.35	91	91	94	83	100	67
18	83	e.00	e.00	e.00	.00	.41	83	90	94	85	100	90
19	82	e.00	e.00	e.00	.00	57	90	90	92	86	100	96
20	82	e.00	e.00	.00	.00	82	91	87	96	86	97	93
21	83	e.00	e.00	.00	.00	82	91	84	96	86	95	92
22	82	e.00	e.00	.00	.00	83	90	94	96	98	92	91
23	68	e.00	e.00	.00	.00	83	90	108	97	102	93	89
24	.86	e.00	e.00	.00	.00	84	93	105	97	100	98	86
25	e.00	e.00	e.00	.00	.00	85	95	96	98	99	100	84
26	e.00	e.00	e.00	.00	.00	86	98	95	98	97	101	82
27	e.00	e.00	e.00	.00	.00	84	97	101	99	97	102	79
28	e.00	e.00	e.00	.00	.00	89	97	100	99	97	112	75
29	e.00	e.00	e.00	.00	---	90	97	97	98	94	112	78
30	e.00	.00	e.00	.00	---	90	97	97	95	91	110	82
31	e.00	---	e.00	.00	---	92	---	95	---	84	110	---
TOTAL	1895.86	0.00	0.00	0.00	0.00	1153.88	2774	2937	2829	2849	2849	2688
MEAN	61.2	.000	.000	.000	.000	37.2	92.5	94.7	94.3	91.9	91.9	89.6
MAX	86	.00	.00	.00	.00	92	98	108	99	102	112	110
MIN	.00	.00	.00	.00	.00	.00	83	84	91	83	77	64
AC-FT	3760	.00	.00	.00	.00	2290	5500	5830	5610	5650	5650	5330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

MEAN	68.9	.80	.38	7.01	6.72	56.5	76.0	78.7	85.2	81.7	79.1	74.7
MAX	98.0	3.57	19.6	43.5	56.4	95.8	98.6	105	108	108	99.9	101
(WY)	1974	1983	1940	1967	2000	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL TOTAL	22258.31		19975.74			
ANNUAL MEAN	60.8		54.7		51.9	
HIGHEST ANNUAL MEAN					62.9	2000
LOWEST ANNUAL MEAN					25.3	1942
HIGHEST DAILY MEAN	137	Feb 17	112	Aug 28	174	Jul 22 1941
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 25	.00	Apr 5 1939
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 25	.00	Nov 5 1939
ANNUAL RUNOFF (AC-FT)	44150		39620		37580	
10 PERCENT EXCEEDS	97		98		97	
50 PERCENT EXCEEDS	84		82		72	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated

08385500 PECOS RIVER NEAR FORT SUMNER, NM

LOCATION.--Lat 34°28'42", long 104°16'18", in $SE^1/_4SW^1/_4$ sec.13 T.3 N., R.25 E., DeBaca County, Hydrologic Unit 13060003 on right bank 100 ft upstream from Atchison, Topeka, and Santa Fe Railway Bridge, 0.8 mi upstream from U.S. Highway 60 and 2.5 mi downstream from Fort Sumner Diversion dam.

DRAINAGE AREA.--5,300 mi^2, approximately.

PERIOD OF RECORD.--June to July 1904, July 1904 to June 1905 (gage heights and discharge measurements only). Daily discharges July 18 to August 11, 1904 are unreliable and should not be used, July 1905 to February 1910, September 1912 to December 1913, July 1994 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,020 above National Geodetic Vertical Datum of 1929, from topographic map. Prior to July 5, 1905, staff gage at site 2.5 mi upstream at different datum. July 5, 1905 to Dec. 31, 1913, staff gage at site 1.5 mi upstream at different datum.

REMARKS.--Records good except for those estimated, which are fair. Diversions upstream from station for irrigation of about 6,100 acres (1961 determination), part of which are downstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, probably exceeded 53,000 ft^3/s, Sept. 30, 1904, gage height, 17.95 ft, from floodmarks, site and datum then in use; minimum daily 0.3 ft^3/s, Aug. 17, 1922.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	10	2.1	2.4	6.8	17	12	11	28	5.6	e1.2	62
2	4.8	10	2.2	2.5	6.8	12	11	11	22	4.7	e1.1	61
3	4.5	10	2.2	2.5	6.8	10	11	11	19	2.0	e1.0	61
4	4.5	9.5	2.2	2.5	6.8	8.9	10	13	16	1.3	e1.0	59
5	4.7	9.5	2.2	2.5	6.4	8.4	7.8	13	14	e1.2	2.2	59
6	4.7	7.7	2.2	2.5	6.3	7.8	7.8	11	14	e1.1	1.9	59
7	5.0	4.9	2.2	2.5	6.3	e1.9	8.1	11	14	e1.0	1.9	58
8	13	e4.6	2.2	2.5	6.2	58	15	11	13	e.90	e1.0	58
9	7.5	e4.5	2.8	2.6	6.3	28	6.4	11	14	e.80	e1.0	59
10	8.4	e4.2	3.9	2.8	6.4	17	9.0	10	10	e.70	e1.0	59
11	8.4	e4.0	4.2	2.8	6.5	13	6.2	3.2	8.7	e.65	e1.0	4.2
12	11	e3.8	4.4	2.8	6.8	11	7.3	3.0	8.3	367	e1.0	.80
13	15	e3.6	4.7	2.8	7.0	10	7.1	215	8.0	1020	e1.0	1.7
14	14	e3.4	4.9	2.7	7.1	9.5	6.4	866	7.1	1070	e1.0	1.6
15	14	e3.2	4.7	2.8	6.8	8.9	6.1	916	7.3	1100	e.90	1.5
16	14	e3.0	4.5	2.8	9.7	7.0	6.0	916	14	1110	3.4	1.5
17	15	e2.8	4.5	2.8	14	3.8	5.0	897	16	1140	1.7	1.4
18	7.9	e2.6	4.3	5.6	18	3.8	11	881	15	1170	1.5	2.1
19	5.2	e2.4	4.3	7.1	19	11	4.2	1140	17	1180	1.9	15
20	5.0	e2.2	4.4	7.3	19	13	5.0	1240	12	1180	1.5	20
21	4.9	e2.0	4.4	7.3	19	11	4.9	1270	14	1160	1.4	21
22	6.9	1.9	4.6	7.0	19	13	4.1	1290	14	122	1.3	22
23	368	1.9	4.6	6.8	20	12	4.1	1270	16	25	4.2	24
24	286	2.1	4.6	6.8	18	12	13	1250	15	12	e1.5	24
25	36	2.2	5.0	6.8	18	12	12	1240	26	7.4	e1.3	26
26	19	2.2	6.1	6.8	19	13	11	1220	27	4.6	e1.2	29
27	14	2.0	6.2	7.0	21	14	11	1190	29	3.6	e1.0	34
28	74	1.9	4.7	7.3	22	13	11	1170	29	2.9	53	36
29	25	1.9	3.4	7.1	---	12	12	704	27	2.0	57	35
30	13	1.9	3.0	6.8	---	12	12	58	9.1	1.7	59	34
31	11	---	2.5	7.0	---	12	---	38	---	e1.4	64	---
TOTAL	1028.8	125.9	118.2	141.5	335.0	396.0	257.5	17890.2	483.5	10699.55	273.10	929.80
MEAN	33.2	4.20	3.81	4.56	12.0	12.8	8.58	577	16.1	345	8.81	31.0
MAX	368	10	6.2	7.3	22	58	15	1290	29	1180	64	62
MIN	4.4	1.9	2.1	2.4	6.2	1.9	4.1	3.0	7.1	.65	.90	.80
AC-FT	2040	250	234	281	664	785	511	35490	959	21220	542	1840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2001, BY WATER YEAR (WY)

MEAN	82.3	52.8	13.8	22.3	92.0	134	15.2	274	404	234	281	130
MAX	272	321	48.5	53.6	318	411	51.4	577	888	537	572	530
(WY)	2000	1998	1996	1996	2000	1998	1999	2001	1995	1998	1997	1998
MIN	5.36	3.83	.85	1.57	2.79	8.53	1.98	2.73	12.8	17.7	8.81	6.54
(WY)	1997	1997	1997	1997	1997	1996	1995	1998	1999	1997	2001	1996

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1994 - 2001	
ANNUAL TOTAL	56273.8		32679.05			
ANNUAL MEAN	154		89.5		145	
HIGHEST ANNUAL MEAN					216	1998
LOWEST ANNUAL MEAN					77.9	1999
HIGHEST DAILY MEAN	1080	Aug 21	1290	May 22	5050	May 1 1999
LOWEST DAILY MEAN	1.3	Jun 8	.65	Jul 11	.21	Sep 29 1997
ANNUAL SEVEN-DAY MINIMUM	2.0	Nov 22	.91	Jul 5	.57	Apr 17 1997
MAXIMUM PEAK FLOW			1650	Oct 23	5300	Apr 30 1999
MAXIMUM PEAK STAGE			7.65	Oct 23	10.85	Apr 30 1999
INSTANTANEOUS LOW FLOW					.21	Sep 28 1997
ANNUAL RUNOFF (AC-FT)	111600		64820		105000	
10 PERCENT EXCEEDS	972		59		892	
50 PERCENT EXCEEDS	13		7.3		13	
90 PERCENT EXCEEDS	3.1		1.7		1.7	

e Estimated

08385522 PECOS RIVER BELOW TAIBAN CREEK NEAR FORT SUMNER, NM

LOCATION.--Lat 34°19'56", long 104°10'48", NW$^1/_4$NE$^1/_4$ sec.11, T.1 N., R.26 E., DeBaca County, Hydrologic Unit 13060003, on left bank 0.6 mi downstream from Taiban Creek, 11.0 mi southeast of Fort Sumner, and at mile 665.7.

PERIOD OF RECORD.--August 1992 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,910 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for those estimated and those above 1,000 ft^3/s, which are fair. Flow partly regulated by Sumner Dam (station 08384000) 23 mi upstream. Diversion for irrigation of about 19,100 acres (1959 determination) above station. Discharge in general represents return flow from irrigated areas in Fort Sumner Irrigation Project.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	53	25	e22	19	29	37	41	55	68	40	86
2	50	e50	25	e23	19	24	44	40	56	67	44	84
3	48	e48	25	e22	19	20	45	40	53	64	44	82
4	50	e47	24	e22	18	19	49	41	57	66	42	80
5	49	e45	24	e22	18	18	43	45	64	63	40	78
6	49	e43	24	e22	19	17	47	45	63	54	38	78
7	55	e42	24	e21	19	18	43	40	62	52	39	77
8	73	e41	24	e21	18	98	39	43	65	50	35	79
9	88	e40	23	21	19	68	40	40	80	52	38	79
10	98	e39	25	21	19	37	35	41	68	53	37	79
11	e100	e38	25	21	18	31	36	39	66	55	34	56
12	98	e37	27	20	18	28	42	38	60	114	35	41
13	104	e36	28	20	18	26	40	31	60	1040	35	40
14	104	37	26	20	18	25	38	913	54	1150	36	38
15	109	36	26	20	18	23	33	1030	55	1200	39	38
16	106	36	26	19	18	22	36	1040	57	1210	90	38
17	103	35	27	19	19	22	e38	1040	58	1230	35	38
18	102	33	27	19	22	20	e40	1040	59	1250	32	44
19	87	33	27	21	24	20	e42	1320	58	1250	35	46
20	78	33	27	22	24	36	e48	1410	58	1250	34	50
21	73	32	27	20	24	32	e45	1400	53	1230	37	50
22	104	31	27	20	24	31	e40	1390	61	442	37	52
23	401	30	26	19	25	33	e34	1380	63	79	36	55
24	940	29	26	19	25	37	29	1360	61	56	32	56
25	133	28	26	19	25	38	34	1350	69	50	31	53
26	86	27	e23	19	25	42	41	1330	76	43	35	51
27	67	27	26	22	27	48	45	1300	80	45	32	58
28	134	27	26	32	31	42	35	1290	88	47	48	61
29	122	26	24	21	---	44	38	1040	84	47	75	61
30	61	26	24	20	---	39	46	96	76	40	78	57
31	55	---	e23	19	---	35	---	54	---	42	81	---
TOTAL	3780	1085	787	648	590	1022	1202	20307	1919	12459	1324	1785
MEAN	122	36.2	25.4	20.9	21.1	33.0	40.1	655	64.0	402	42.7	59.5
MAX	940	53	28	32	31	98	49	1410	88	1250	90	86
MIN	48	26	23	19	18	17	29	31	53	40	31	38
AC-FT	7500	2150	1560	1290	1170	2030	2380	40280	3810	24710	2630	3540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2001, BY WATER YEAR (WY)

MEAN	193	72.3	30.9	32.2	106	166	107	287	432	307	377	183
MAX	370	353	58.9	62.6	355	457	497	655	971	680	884	582
(WY)	1994	1998	1996	1996	2000	1998	1993	2001	1995	1993	1994	1998
MIN	66.3	24.5	18.7	14.7	15.1	33.0	40.1	40.5	64.0	70.2	42.7	55.2
(WY)	1996	1997	1997	1997	1993	2001	2001	1998	2001	1997	2001	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1992 - 2001	
ANNUAL TOTAL	72350		46908			
ANNUAL MEAN	198		129		191	
HIGHEST ANNUAL MEAN					253	1995
LOWEST ANNUAL MEAN					117	1999
HIGHEST DAILY MEAN	1160	Feb 21	1410	May 20	2130	May 1 1999
LOWEST DAILY MEAN	23	Dec 9	17	Mar 6	11	Feb 11 1994
ANNUAL SEVEN-DAY MINIMUM	24	Dec 3	18	Feb 10	12	Feb 7 1994
MAXIMUM PEAK FLOW			2320	Oct 24	4580	May 1 1999
MAXIMUM PEAK STAGE			6.63	Oct 24	8.35	May 1 1999
INSTANTANEOUS LOW FLOW			16	Feb 8	6.9	Jan 4 1997
ANNUAL RUNOFF (AC-FT)	143500		93040		138400	
10 PERCENT EXCEEDS	1050		104		956	
50 PERCENT EXCEEDS	53		40		55	
90 PERCENT EXCEEDS	28		20		21	

e Estimated

08385630 PECOS RIVER NEAR DUNLAP, NM

LOCATION.--Lat 34°03'52", long 104°18'22", in SE$^1/_4$NW$^1/_4$, sec. 10, T.3 S., R.25 E., DeBaca County, Hydrologic Unit 13060003, on left bank 1.2 mi south of Van Eaton Ranch, 2.5 mi upstream from Arroyo de la Mora, 2.7 mi downstream from Blanco Canyon, 15 mi east of Dunlap, NM, and at mile 638.1

PERIOD OF RECORD.--August 1993 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,760 ft above National Geodetic Vertical Datum of 1929, from river profile map.

REMARKS.--Records fair. Flow partly regulated by Lake Sumner (station 08384000). Diversion for irrigation of about 19,100 acres (1959 determination) above station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	77	28	26	23	29	39	37	109	42	34	75
2	35	66	28	32	21	28	38	36	90	32	32	66
3	34	62	28	29	21	26	40	35	79	28	29	63
4	33	61	28	29	21	23	42	40	76	26	27	67
5	36	56	28	28	20	20	44	57	76	25	26	69
6	36	52	26	27	19	19	45	44	70	25	23	67
7	36	65	26	25	19	19	43	43	63	21	22	65
8	58	60	26	23	19	121	43	39	60	19	24	67
9	67	52	26	23	18	127	37	40	65	17	21	68
10	77	50	26	23	18	87	40	37	63	16	20	72
11	86	46	25	23	18	55	32	36	49	15	20	72
12	87	43	25	22	17	43	33	43	43	21	23	53
13	82	41	26	22	18	39	37	41	40	161	20	37
14	80	40	32	20	18	35	35	109	36	1110	19	40
15	79	39	30	20	17	32	37	835	32	1410	46	35
16	83	38	27	22	16	31	33	990	30	1510	50	34
17	84	37	26	23	16	31	32	1050	30	1540	68	43
18	86	36	24	29	16	32	36	1070	29	1610	29	37
19	81	35	25	38	17	30	36	1170	29	1610	23	31
20	71	35	25	29	19	26	38	1580	29	1650	21	32
21	66	34	25	26	20	32	34	1510	29	1680	20	36
22	69	34	25	23	21	34	31	1540	27	1470	22	42
23	304	33	26	24	23	32	30	1540	28	268	24	43
24	1300	32	26	24	21	34	32	1600	33	139	21	42
25	415	31	27	22	19	37	28	1660	35	95	21	42
26	191	30	19	21	21	39	29	1690	54	75	24	39
27	129	29	24	24	23	42	33	1650	48	62	24	34
28	133	29	40	23	28	45	38	1600	48	58	20	40
29	256	29	48	29	---	46	33	1570	51	50	25	46
30	151	28	43	29	---	45	33	721	49	45	51	47
31	98	---	39	26	---	41	---	164	---	39	58	---
TOTAL	4379	1300	877	784	547	1280	1081	22577	1500	14869	887	1504
MEAN	141	43.3	28.3	25.3	19.5	41.3	36.0	728	50.0	480	28.6	50.1
MAX	1300	77	48	38	28	127	45	1690	109	1680	68	75
MIN	33	28	19	20	16	19	28	35	27	15	19	31
AC-FT	8690	2580	1740	1560	1080	2540	2140	44780	2980	29490	1760	2980

CAL YR 2000 TOTAL 70815 MEAN 193 MAX 1300 MIN 19 AC-FT 140500
WTR YR 2001 TOTAL 51585 MEAN 141 MAX 1690 MIN 15 AC-FT 102300

08386000 PECOS RIVER NEAR ACME, NM

LOCATION.--Lat 33°32'10", long 104°22'34", in $SW^1/_4NW^1/_4$ 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 mi^2, approximately (contributing area).

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 with satellite telemetry. 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.--Records fair except for those estimated, which are poor. 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. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of May 28, 1937, reached a discharge of 53,000 ft^3/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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	123	e29	31	28	23	36	21	262	27	22	e5.9
2	3.7	101	e28	e25	27	29	33	16	165	22	19	e11
3	2.8	91	e27	26	24	29	29	15	113	17	15	e12
4	2.4	89	e26	25	21	31	26	17	92	11	13	e12
5	2.6	83	e26	29	19	27	26	20	90	5.9	10	e14
6	2.7	76	e25	26	18	23	28	30	84	4.1	7.6	e20
7	3.9	77	e24	25	18	21	29	32	76	3.7	8.7	31
8	7.8	72	24	23	17	62	32	27	95	2.4	6.4	26
9	15	69	23	22	16	101	28	25	e71	1.2	6.6	27
10	27	67	23	21	15	139	30	21	e66	.19	6.6	29
11	37	66	23	19	14	120	24	21	e61	.00	6.1	32
12	51	e65	21	19	13	83	23	152	54	.00	11	35
13	61	63	21	19	13	64	23	58	40	.00	8.6	36
14	59	e60	22	17	14	51	21	39	32	.00	22	28
15	57	e56	24	16	13	40	22	29	27	586	5.7	15
16	67	e53	22	16	12	37	23	693	25	1020	5.8	13
17	107	e50	25	20	12	34	24	823	21	1020	28	14
18	91	e47	22	19	12	34	24	891	17	1050	34	19
19	77	e46	20	19	12	33	22	919	15	973	38	12
20	74	e44	19	20	12	32	21	1130	17	1020	14	6.7
21	74	e42	19	22	11	30	20	1170	15	1060	6.5	4.8
22	72	e41	20	26	10	25	18	1170	11	1010	3.5	7.8
23	105	e40	20	26	11	23	17	1200	8.7	728	e1.1	9.7
24	884	e37	21	27	13	28	16	1170	7.6	298	.78	6.1
25	725	e35	22	26	13	28	15	1160	6.5	166	.57	5.1
26	356	e33	22	24	15	28	16	1110	7.1	104	.40	5.8
27	271	e32	25	28	16	30	16	1060	14	66	.24	5.3
28	247	e32	26	27	19	34	13	1050	31	52	.10	5.5
29	246	e31	23	30	---	36	14	1040	30	43	.11	5.1
30	262	e30	22	29	---	38	21	1060	26	37	.32	4.0
31	231	---	30	24	---	39	---	460	---	29	.37	---
TOTAL	4227.3	1751	724	726	438	1352	690	16629	1579.9	9356.49	302.09	457.8
MEAN	136	58.4	23.4	23.4	15.6	43.6	23.0	536	52.7	302	9.74	15.3
MAX	884	123	30	31	28	139	36	1200	262	1060	38	36
MIN	2.4	30	19	16	10	21	13	15	6.5	.00	.10	4.0
AC-FT	8380	3470	1440	1440	869	2680	1370	32980	3130	18560	599	908

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2001, BY WATER YEAR (WY)

MEAN	151	60.7	27.0	26.3	34.6	166	200	287	313	317	268	290
MAX	2200	858	236	190	375	595	1217	2680	2186	1611	813	3527
(WY)	1942	1943	1942	1942	2000	1941	1942	1941	1941	1960	1997	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1938 - 2001	
ANNUAL TOTAL	63386.7		38233.58			
ANNUAL MEAN	173		105		179	
HIGHEST ANNUAL MEAN					964	1941
LOWEST ANNUAL MEAN					56.8	1964
HIGHEST DAILY MEAN	1310	Feb 23	1200	May 23	29500	Sep 23 1941
LOWEST DAILY MEAN	2.2	Sep 22	.00	Jul 11	.00	May 23 1938
ANNUAL SEVEN-DAY MINIMUM	3.3	Sep 19	.30	Aug 25	.00	May 23 1938
MAXIMUM PEAK FLOW			2120	Oct 24	[a]45000	Sep 23 1941
MAXIMUM PEAK STAGE			6.56	Oct 24	13.71	Sep 23 1941
INSTANTANEOUS LOW FLOW					1.3	Jun 3 1998
ANNUAL RUNOFF (AC-FT)	125700		75840		129800	
10 PERCENT EXCEEDS	849		165		685	
50 PERCENT EXCEEDS	37		25		25	
90 PERCENT EXCEEDS	16		5.9		1.0	

e Estimated
a From rating curve extended above 27,000 ft^3/s.

08386505 RIO RUIDOSO AT RUIDOSO, NM

LOCATION.--Lat 33°20'12", long 105°43'34", in $SW^1/_4SW^1/_4NW^1/_4$, sec. 19, T.11 S., R.13 E., Lincoln County, Hydrologic Unit 13060008, on right bank at Village of Ruidoso, 2.6 mi to State Road 48 and 6.2 mi west of U.S. Highway 70.

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,160 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

EXTREMES PERIOD OF RECORD.--Maximum discharge 117 ft^3/s, July 7, 2000 gage height, 2.53 ft, minimum 0.14 ft^3/s, Oct. 29, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 48 ft^3/s, Apr. 19 gage height, 2.16 ft, minimum 0.79 ft^3/s, Dec. 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.93	2.5	4.6	2.4	1.8	6.1	24	26	4.9	2.2	1.7	3.2
2	1.0	2.1	4.7	2.3	1.8	5.8	31	26	4.5	1.7	2.9	2.6
3	1.0	2.1	4.8	2.4	1.8	5.4	37	24	4.3	1.7	4.1	1.9
4	1.0	3.3	4.4	2.4	2.1	5.3	38	21	4.0	1.6	3.8	1.8
5	1.0	5.2	4.2	2.4	2.6	5.6	32	18	3.8	1.6	3.9	1.6
6	1.0	4.4	4.2	2.6	3.0	6.2	30	15	3.6	1.5	3.9	1.5
7	1.1	2.0	4.0	2.5	3.5	7.8	25	14	3.6	1.5	4.1	1.4
8	1.3	4.8	4.1	2.3	3.7	9.2	21	14	3.5	1.5	3.3	1.3
9	1.4	5.1	3.9	2.5	3.3	9.1	19	15	3.2	1.3	2.7	1.4
10	1.3	4.7	3.5	2.2	3.6	10	21	16	2.7	1.4	4.4	1.4
11	1.2	4.6	3.4	1.8	3.5	10	22	16	2.3	1.4	3.2	1.4
12	1.3	4.2	3.1	2.2	3.6	9.8	21	16	2.1	1.3	3.1	1.4
13	1.2	3.6	2.9	1.7	4.4	9.5	20	18	2.0	1.1	3.8	4.6
14	1.2	3.9	2.9	1.9	4.8	9.9	21	22	1.9	1.2	4.5	13
15	1.1	4.3	2.6	2.1	4.2	11	24	23	1.9	1.1	9.5	7.6
16	1.1	4.2	2.2	1.8	3.9	11	26	21	1.8	1.0	13	8.6
17	1.1	3.8	2.7	1.7	3.8	11	31	18	1.8	1.0	13	6.7
18	1.0	3.5	1.5	1.9	4.1	10	36	16	1.8	1.0	15	5.7
19	1.1	3.5	2.1	2.7	4.6	9.9	41	16	1.7	1.1	12	6.1
20	1.6	3.7	2.6	2.5	5.1	11	43	15	1.7	1.4	8.0	6.9
21	4.4	3.9	2.2	2.5	5.5	16	34	13	3.4	1.1	6.4	5.9
22	4.4	4.0	2.2	2.7	6.0	23	29	12	2.4	1.2	4.9	5.8
23	2.8	4.3	2.0	2.1	6.3	27	23	11	1.9	1.8	5.4	5.6
24	3.2	4.3	2.0	1.9	5.9	29	22	9.4	1.8	2.0	4.3	4.7
25	2.4	4.2	1.9	1.8	5.7	30	21	8.4	4.0	2.0	3.4	3.1
26	2.2	4.0	1.8	1.7	5.5	34	22	7.7	3.4	1.5	3.5	3.6
27	2.1	4.0	2.3	1.6	7.0	37	22	7.7	2.5	1.5	3.2	4.5
28	4.0	3.8	2.3	1.9	7.3	36	22	7.1	2.9	2.0	2.7	4.0
29	3.7	3.9	2.2	1.9	---	28	22	6.4	2.3	1.9	2.5	3.7
30	3.3	4.4	2.4	1.8	---	24	25	5.8	2.3	1.9	2.4	3.3
31	2.5	---	2.4	1.8	---	22	---	5.2	---	1.8	3.2	---
TOTAL	57.93	116.3	92.1	66.0	118.4	479.6	805	463.7	84.0	46.3	161.8	124.3
MEAN	1.87	3.88	2.97	2.13	4.23	15.5	26.8	15.0	2.80	1.49	5.22	4.14
MAX	4.4	5.2	4.8	2.7	7.3	37	43	26	4.9	2.2	15	13
MIN	.93	2.0	1.5	1.6	1.8	5.3	19	5.2	1.7	1.0	1.7	1.3
AC-FT	115	231	183	131	235	951	1600	920	167	92	321	247

CAL YR 2000 TOTAL 1553.75 MEAN 4.25 MAX 84 MIN .53 AC-FT 3080
WTR YR 2001 TOTAL 2615.43 MEAN 7.17 MAX 43 MIN .93 AC-FT 5190

08387600 EAGLE CREEK BELOW SOUTH FORK, NEAR ALTO, NM

LOCATION.--Lat 33°23'57", long 105°43'11", in $SW^1/_4SW^1/_4$ sec.31, T.10 S., R.13 E., Lincoln County, Hydrologic Unit 13060008, in Lincoln National Forest on right bank 300 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 mi^2.

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 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.44	.11	.37	.53	.33	2.1	2.3	2.6	.11	e.00	e.00	.00
2	.38	.12	.37	.20	.33	1.7	2.2	2.7	.09	e.00	e.00	.00
3	.09	.12	.36	.31	.43	1.4	2.1	2.6	.08	.00	e.00	.00
4	.05	.54	.33	.63	.62	1.4	2.3	2.3	.06	.00	e.00	.00
5	.11	.92	.32	.22	.82	1.5	2.8	2.2	.06	.00	e.00	.00
6	.15	.52	.30	.22	.80	1.5	2.7	1.9	.05	.00	.00	.00
7	.19	.62	.29	.23	e.85	1.7	2.5	1.6	.05	.00	.00	.00
8	.03	.62	.30	.21	.92	3.1	2.3	1.4	.04	.00	.00	.00
9	.04	.79	.26	.20	1.0	3.3	2.0	1.3	.04	.00	.00	.00
10	.06	.92	.26	.20	1.7	3.2	1.6	1.2	e.03	.00	.00	.00
11	.09	.83	.25	.18	.65	2.4	1.5	1.1	e.01	.00	e.00	.00
12	.08	.70	.24	.19	.57	1.9	1.4	1.0	.00	.00	e.00	.00
13	.09	.51	.26	.19	.71	1.6	1.3	1.1	.00	.00	.00	.00
14	.07	.52	.26	.19	.86	1.6	.99	1.2	.00	.00	.00	2.1
15	.07	.62	.24	.20	.66	1.5	.86	1.1	.00	.00	.00	1.6
16	.07	.57	.22	.20	.53	1.7	.84	1.0	.00	.00	.09	1.4
17	.06	.46	.23	.20	.58	1.8	.85	1.2	.00	.00	.04	.42
18	.06	.44	.24	.20	.47	1.7	.81	1.3	.00	.00	.05	.29
19	.07	.40	.21	.20	.48	1.6	1.3	1.3	.00	.00	.04	.19
20	.08	.37	.21	.37	.51	1.6	3.3	1.2	.00	.00	.03	.14
21	.41	.37	.21	.25	.52	1.7	3.1	1.1	.00	.02	.03	.13
22	.31	.41	.21	.39	.52	1.7	2.6	1.0	.00	.02	.03	.11
23	.24	.48	.21	.24	.54	1.9	2.4	.97	.00	.03	.02	.10
24	.42	.44	.21	.22	.48	2.1	2.1	.87	.00	.11	.01	.09
25	.18	.40	.61	.20	.45	2.1	1.8	.73	.00	.03	.00	.09
26	.13	.38	.52	.21	.47	1.9	1.6	.63	.00	.03	.00	.11
27	.11	.37	.25	.21	2.1	2.0	1.7	.49	.00	.02	.00	.12
28	.30	.37	.23	.28	3.1	3.1	2.0	.37	.00	e.00	.00	.10
29	.29	.37	.22	.31	---	3.4	2.2	.26	.00	e.00	.00	.09
30	.17	.37	.30	.32	---	3.0	2.2	.18	e.00	e.00	.00	.08
31	.13	---	.27	.33	---	2.5	---	.14	---	e.00	.00	---
TOTAL	4.97	14.66	8.76	8.03	22.00	63.7	57.65	38.04	0.62	0.26	0.34	7.16
MEAN	.16	.49	.28	.26	.79	2.05	1.92	1.23	.021	.008	.011	.24
MAX	.44	.92	.61	.63	3.1	3.4	3.3	2.7	.11	.11	.09	2.1
MIN	.03	.11	.21	.18	.33	1.4	.81	.14	.00	.00	.00	.00
AC-FT	9.9	29	17	16	44	126	114	75	1.2	.5	.7	14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2001, BY WATER YEAR (WY)

MEAN	2.18	1.75	1.83	1.43	1.98	3.58	4.63	3.75	1.29	1.86	3.66	3.31
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	.16	.12	.12	.092	.074	.077	.085	.000	.014	.008	.011	.24
(WY)	2001	2000	2000	2000	2000	2000	2000	1996	1996	2001	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1970 - 2001	
ANNUAL TOTAL	204.53		226.19			
ANNUAL MEAN	.56		.62		2.56	
HIGHEST ANNUAL MEAN					8.48	1979
LOWEST ANNUAL MEAN					.39	1971
HIGHEST DAILY MEAN	12	Jul 8	3.4	Mar 29	170	Dec 19 1978
LOWEST DAILY MEAN	.00	May 2	.00	Jun 12	.00	Jul 9 1989
ANNUAL SEVEN-DAY MINIMUM	.00	May 2	.00	Jun 12	.00	Jun 17 1990
MAXIMUM PEAK FLOW			12	Sep 14	[a]206	Dec 19 1978
MAXIMUM PEAK STAGE			5.98	Sep 14	6.87	Jul 30 1997
INSTANTANEOUS LOW FLOW					.00	Jul 9 1989
ANNUAL RUNOFF (AC-FT)	406		449		1850	
10 PERCENT EXCEEDS	.91		2.0		6.7	
50 PERCENT EXCEEDS	.14		.25		1.0	
90 PERCENT EXCEEDS	.00		.00		.18	

e Estimated
a From rating curve extended above 40 ft^3/s.

08389055 RIO BONITO NEAR LINCOLN, NM

LOCATION.--Lat 33°31'28", long 105°28'52", in $SW^1/_4NE^1/_4NE^1/_4$, sec. 15, T.9 S., R.15 E., Lincoln County, Hydrologic Unit 13060008, on right bank 1.2 mi downstream from culvert under US 380, 5.0 mi north of Lincoln, and 5.6 mi east of Capitan.

PERIOD OF RECORD.--April 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,977 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for those estimated, which are poor.

EXTREMES PERIOD OF RECORD.--Maximum discharge 983 ft^3/s, June 29, 2000, gage height, 4.68 ft, minimum .09 ft^3/s, Oct. 6, 8-10, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 99 ft^3/s, Aug. 16, gage height, 2.51 ft, minimum .10 ft^3/s, Aug. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	e.14	.22	.22	.13	.22	8.3	7.5	.24	.40	.17	.14
2	.13	e.14	.22	.21	.12	.22	7.9	8.7	.24	.40	.17	.13
3	.15	e.13	.24	.19	.13	.22	9.3	9.1	.23	.30	.19	.11
4	.14	e.13	.25	.20	.13	.22	12	7.8	.23	.27	.17	.11
5	.14	e.12	.25	.20	.13	.22	13	6.8	.23	.29	.16	.11
6	.14	e.12	.29	.20	.13	.22	13	5.5	.23	.30	.17	.10
7	.15	e.13	.29	.17	.13	.24	15	3.9	.24	.31	.16	.11
8	.16	e.13	.30	.17	.13	.29	13	3.1	.25	.27	.19	.11
9	.17	e.14	.33	.17	.13	.29	10	2.6	.28	.24	.22	.11
10	.17	e.13	.33	.17	.13	.29	9.4	2.4	.27	.26	.23	.11
11	.16	e.15	.37	.17	.13	.29	9.7	2.7	.25	.27	.38	.11
12	.17	e.18	.37	.17	.14	.29	8.9	4.7	.23	.25	.37	.10
13	.16	e.25	.37	.15	.14	.29	8.4	6.0	.23	.27	.21	.10
14	.15	e.28	.36	.15	.15	.32	7.5	10	.23	.29	.16	.13
15	.15	.31	.33	.15	.15	.33	7.0	8.0	.24	.32	.21	.11
16	.14	.26	.30	.14	.15	.34	8.1	6.5	.25	.34	21	.11
17	.15	.20	.30	.13	.15	.37	9.6	4.4	.26	.36	.60	.10
18	e.15	.21	.29	.13	.15	.40	12	2.2	.27	.49	.21	.11
19	e.14	.25	.28	.13	.15	.39	14	1.8	.28	.53	.17	.12
20	e.14	.28	.26	.13	.16	.31	17	1.6	.28	.51	.14	.13
21	e.14	.48	.26	.13	.16	.29	19	1.4	.29	.19	.14	.14
22	e.13	.48	.26	.13	.16	.29	17	1.2	.33	.16	.13	.15
23	e.13	.47	.26	.14	.17	.30	16	.89	.36	.16	.13	.18
24	e.12	.18	.23	.13	.17	.80	11	.59	.36	.16	.12	.24
25	e.12	.17	.23	.13	.17	2.9	8.5	.46	.38	.13	.12	.20
26	e.13	.20	.24	.13	.17	4.8	7.9	.39	.42	.13	.12	.24
27	e.13	.19	.24	.14	.19	8.1	6.8	.31	.50	.15	.12	.27
28	e.14	.19	.25	.15	.21	11	5.6	.28	.50	.15	.12	.28
29	e.14	.20	.22	.15	---	11	5.7	.26	.42	.15	.14	.34
30	e.14	.20	.22	.13	---	11	5.9	.25	.39	.16	.15	.40
31	e.15	---	.22	.12	---	9.2	---	.24	---	.17	.16	---
TOTAL	4.46	6.44	8.58	4.83	4.16	65.44	316.5	111.57	8.91	8.38	26.73	4.70
MEAN	.14	.21	.28	.16	.15	2.11	10.6	3.60	.30	.27	.86	.16
MAX	.17	.48	.37	.22	.21	11	19	10	.50	.53	21	.40
MIN	.12	.12	.22	.12	.12	.22	5.6	.24	.23	.13	.12	.10
AC-FT	8.8	13	17	9.6	8.3	130	628	221	18	17	53	9.3

CAL YR 2000 TOTAL 169.11 MEAN .46 MAX 55 MIN .10 AC-FT 335
WTR YR 2001 TOTAL 570.70 MEAN 1.56 MAX 21 MIN .10 AC-FT 1130

e Estimated

08390500 RIO HONDO AT DIAMOND A RANCH, NEAR ROSWELL, NM

LOCATION.--33°20'57", long 104°51'05", in NE$^1/_4$NE$^1/_4$ 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 mi^2, 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 with satellite telemetry 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 of about 6,500 acres, 1959 determination. No flow most of time.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood on June 1, 1937, reached a discharge of 24,900 ft^3/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 2000 TO SEPTEMBER 2001
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	.13	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	2.7	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	4.0	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	1.5	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	1.1	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	1.8	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	1.3	.00	.00	.00	.00	.00
13	.00	.00	.00	1.6	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	e2.0	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	e1.0	2.0	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.50	2.8	.00	.00	.00	.00	.00	.00	.00
17	49	.00	.00	.00	3.2	.00	.00	.00	.00	.00	.00	.00
18	4.4	.00	.00	.00	3.2	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	1.7	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	9.9	.00	.00	3.6	.00	.00	.00	.00	.00	.00	.00	.00
22	.21	.00	.00	3.2	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	2.4	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	1.0	.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	52	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	27	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	63.51	0.00	0.00	15.30	12.90	0.00	91.53	0.00	0.00	0.00	0.00	0.00
MEAN	2.05	.000	.000	.49	.46	.000	3.05	.000	.000	.000	.000	.000
MAX	49	.00	.00	3.6	3.2	.00	52	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	126	.00	.00	30	26	.00	182	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	24.4	16.2	19.0	16.3	12.3	12.9	25.2	28.0	23.9	25.2	37.1	49.0
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	87.65		183.24			
ANNUAL MEAN	.24		.50		24.2	
HIGHEST ANNUAL MEAN					181	1941
LOWEST ANNUAL MEAN					.066	2000
HIGHEST DAILY MEAN	49	Oct 17	52	Apr 29	8380	Sep 22 1941
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1939
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 1 1939
MAXIMUM PEAK FLOW			516	Apr 29	[a]54800	Jun 18 1965
MAXIMUM PEAK STAGE			10.37	Apr 29	[b]28.78	Sep 22 1941
INSTANTANEOUS LOW FLOW			.00	Oct 1	.00	Oct 1 1939
ANNUAL RUNOFF (AC-FT)	174		363		17500	
10 PERCENT EXCEEDS	.00		.00		60	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
a From rating curve extended above 3,100 ft^3/s, on basis of slope-area measurement of peak flow.
b Maximum gage height, 28.78, Sept. 22, 1941.

08390600 TWO RIVERS RESERVOIR NEAR ROSWELL, NM

LOCATION.--08390610 Rio Hondo Reservoir: Lat 33°17'55", long 104°43'20", in $SW^1/_4SE^1/_4NE^1/_4$ 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 $NW^1/_4SE^1/_4NE1/$ 4 sec.16, T.12 S., R.22 E., at left end of Rocky Dam on Rocky Arroyo, and 14 mi southwest of Roswell.

DRAINAGE AREA.--1,027 mi^2; Rio Hondo, 963 mi^2; Rocky Arroyo, 64 mi^2.

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 with satellite telemetry. 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.

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, no storage during year; Rocky Arroyo Reservoir, no storage during year; no contents in both reservoirs most of time.

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 mi^2, contributing area.

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

GAGE.--Water-stage recorder with satellite telemetry 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 those estimated, which are fair. 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).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.55	.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	1.1	.00	.00	.00	.71	.00	.00	.00	.00	.00	.00
8	.00	.03	.00	.00	.00	2.6	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.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	54	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	49	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	7.5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	1.3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	3.2	.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	e.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	25	e.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	85	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	164.00	1.13	0.00	0.00	0.00	3.32	110.00	0.55	0.00	0.00	0.00	0.00
MEAN	5.29	.038	.000	.000	.000	.11	3.67	.018	.000	.000	.000	.000
MAX	54	1.1	.00	.00	.00	2.6	85	.55	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	325	2.2	.00	.00	.00	6.6	218	1.1	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

MEAN	12.6	10.8	14.1	14.9	12.7	13.2	19.1	15.2	8.31	7.02	23.4	23.2
MAX	151	122	118	128	82.9	122	176	127	74.7	52.3	137	116
(WY)	1986	1987	1985	1985	1987	1987	1987	1987	1992	1986	1984	1988
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1964	1964	1964	1964	1964	1964	1964	1967	1971	1974	1975	1973

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001	
ANNUAL TOTAL	165.56		279.00			
ANNUAL MEAN	.45		.76		14.6	
HIGHEST ANNUAL MEAN					85.6	1987
LOWEST ANNUAL MEAN					.001	2000
HIGHEST DAILY MEAN	54	Oct 17	85	Apr 30	459	Sep 8 1965
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1963
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 1 1963
MAXIMUM PEAK FLOW			326	Oct 17	659	Jul 29 1965
MAXIMUM PEAK STAGE			3.56	Oct 17	4.91	Jul 29 1965
INSTANTANEOUS LOW FLOW					.00	Oct 1 1963
ANNUAL RUNOFF (AC-FT)	328		553		10540	
10 PERCENT EXCEEDS	.00		.00		50	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated

08393610 RIO HONDO NEAR ROSWELL, NM

LOCATION.--Lat 33°24'30", long 104°28'18", in NE$^1/_4$NE$^1/_4$NM$^1/_4$ sec. 35, T.10 S., R.24 E., Chaves County, Hydrologic Unit 13060008, on right bank 0.25 mi upstream from Red Bridge Road, and 0.60 mi upstream from Berrendo Creek, 1.1 mi north on State Road 265 (intersection of Red Bridge Road and U.S. 380). At Pecos River mile 588.

DRAINAGE.--2,900 mi^2, approximately (contributing area).

PERIOD OF RECORD.--June 1997 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,500 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records poor. Flow regulated by Two Rivers Reservoir (083906000) 25.0 mi upstream. Diversions and ground-water withdrawals for irrigation upstream from station. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,350 ft^3/s, May 1, 1999, gage height, 15.96 ft, minimum 1.3 ft^3/s, Feb. 16, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,470 ft^3/s, Mar. 7, gage height, 12.89 ft; minimum 1.6 ft^3/s, May 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	11	10	10	10	8.3	4.9	5.4	4.9	6.1	5.1	5.2
2	3.6	11	10	10	10	12	5.1	3.8	5.2	5.4	5.3	5.4
3	3.5	14	10	10	10	8.4	5.1	3.8	5.4	5.3	5.4	5.6
4	3.6	26	10	10	10	8.3	5.5	4.2	5.6	5.0	5.4	8.3
5	3.7	11	10	10	10	8.5	4.9	3.9	5.9	5.0	5.4	5.9
6	3.8	11	10	10	10	8.5	4.7	3.8	6.5	5.2	5.1	5.2
7	3.6	35	9.7	10	10	78	4.6	4.9	6.6	5.0	5.8	5.0
8	3.5	14	9.6	11	10	77	4.5	5.2	12	4.9	5.5	5.4
9	3.3	11	9.9	11	9.8	15	5.0	5.3	6.5	4.9	5.2	5.1
10	3.2	11	10	11	10	11	5.4	5.4	6.7	4.9	5.1	5.2
11	3.2	11	9.9	11	10	9.0	5.3	14	7.1	4.9	5.0	5.2
12	3.4	11	9.9	11	9.9	7.5	5.6	16	7.5	4.9	5.7	5.0
13	3.2	11	10	11	9.7	5.3	5.7	2.8	7.7	4.9	8.2	5.0
14	3.2	10	10	11	9.8	5.0	5.8	2.1	8.0	5.0	4.9	5.1
15	3.2	11	9.9	11	9.0	4.9	6.5	1.7	8.1	5.0	5.0	4.9
16	3.5	11	9.9	10	8.9	4.8	5.8	2.2	8.3	4.9	5.1	4.9
17	76	11	10	11	9.0	5.0	5.7	2.8	8.3	4.8	5.5	5.0
18	25	11	10	11	9.7	4.9	5.6	3.0	8.1	4.8	5.4	5.3
19	12	11	10	11	9.4	5.3	5.6	3.7	8.0	5.0	5.1	5.2
20	11	10	10	11	9.1	4.8	5.4	3.3	7.6	5.2	5.1	4.9
21	15	10	10	11	10	4.8	5.3	3.5	7.5	6.4	5.1	5.0
22	14	11	10	11	8.0	4.9	5.3	3.8	7.3	4.7	5.2	4.7
23	13	10	10	10	7.3	4.9	5.2	3.6	7.0	4.7	5.1	5.0
24	13	10	10	10	8.3	4.9	5.4	3.5	6.8	4.8	5.1	4.4
25	11	11	9.9	10	8.9	5.3	5.5	3.8	6.7	5.0	5.2	4.4
26	11	10	11	10	8.8	5.0	5.6	3.8	6.8	5.3	5.3	4.4
27	11	10	11	11	10	4.9	5.5	3.9	6.9	5.4	5.6	4.1
28	31	10	10	12	11	4.9	5.0	4.0	5.8	5.1	5.3	4.0
29	13	10	10	11	---	4.9	5.5	4.2	5.6	5.2	6.4	4.0
30	11	10	10	10	---	4.9	9.8	4.3	5.7	6.4	4.9	4.1
31	11	---	10	10	---	4.8	---	4.6	---	5.1	5.1	---
TOTAL	338.3	365	310.7	328	266.6	345.7	164.8	140.3	210.1	159.2	166.6	150.9
MEAN	10.9	12.2	10.0	10.6	9.52	11.2	5.49	4.53	7.00	5.14	5.37	5.03
MAX	76	35	11	12	11	78	9.8	16	12	6.4	8.2	8.3
MIN	3.2	10	9.6	10	7.3	4.8	4.5	1.7	4.9	4.7	4.9	4.0
AC-FT	671	724	616	651	529	686	327	278	417	316	330	299

WTR YR 2001 TOTAL 2946.2 MEAN 8.07 MAX 78 MIN 1.7 AC-FT 5840

08395500 PECOS RIVER NEAR LAKE ARTHUR, NM

LOCATION.--Lat 32°59'21", long 104°19'17", in $SW^1/_4NE^1/_4$ sec.27, T.15 S., R.26 E., Chaves County, Hydrologic Unit 13060007, on right bank 750 ft upstream from bridge on Yuma Road, 3.5 mi east of Lake Arthur, 7 mi upstream from Cottonwood Creek, 15 mi northeast of Artesia, and at mile 522.0.

DRAINAGE AREA.--14,760 mi^2, approximately (contributing area).

PERIOD OF RECORD.--August 1938 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,327.07 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Lake 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 30, 1937, reached a stage of 21.77 ft, discharge, 51,500 ft^3/s on basis of slope-area measurement of peak flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	332	77	87	104	74	79	54	463	e27	52	22
2	35	205	76	91	98	80	80	53	245	e28	49	21
3	39	151	76	96	99	81	77	55	193	e26	45	21
4	35	154	76	95	98	89	76	54	152	e24	40	21
5	32	172	75	94	93	84	73	53	132	e22	37	26
6	32	161	75	94	87	81	71	53	119	e20	34	32
7	32	163	75	94	85	81	66	53	113	e19	31	35
8	32	194	75	91	84	156	64	53	112	e17	29	32
9	33	218	75	88	82	276	63	53	114	19	26	29
10	34	177	75	87	79	254	65	54	131	18	25	31
11	36	151	74	86	80	267	64	54	e118	17	24	30
12	40	128	74	87	79	262	63	54	e95	17	24	30
13	47	113	74	90	77	214	63	206	e80	16	24	29
14	54	105	74	87	76	175	61	176	e74	15	23	32
15	62	100	77	86	74	144	61	123	e80	14	24	32
16	64	97	79	84	73	118	61	109	e67	102	25	34
17	64	94	80	85	72	109	63	508	e51	491	29	31
18	114	93	79	88	71	106	62	723	e50	816	24	28
19	172	91	78	91	71	100	62	821	e44	945	23	27
20	114	88	79	90	71	101	61	1010	e40	961	30	27
21	96	87	78	89	71	107	59	1110	e37	1020	35	26
22	90	86	78	88	70	99	58	1140	e34	1110	34	27
23	103	86	78	89	69	94	58	1150	e31	1150	29	24
24	105	84	78	90	69	88	57	1150	e29	890	25	25
25	900	83	78	89	69	83	56	1200	e26	382	24	25
26	827	81	82	90	69	83	56	1220	e24	184	23	27
27	363	80	85	92	69	83	55	1250	e26	119	21	24
28	269	79	87	98	70	82	55	1210	e25	85	22	24
29	346	78	89	105	---	82	54	1210	e22	67	22	25
30	311	78	93	111	---	82	57	1150	e22	61	22	24
31	314	---	90	109	---	81	---	1070	---	56	23	---
TOTAL	4829	3809	2439	2841	2209	3816	1900	17179	2749	8738	898	821
MEAN	156	127	78.7	91.6	78.9	123	63.3	554	91.6	282	29.0	27.4
MAX	900	332	93	111	104	276	80	1250	463	1150	52	35
MIN	32	78	74	84	69	74	54	53	22	14	21	21
AC-FT	9580	7560	4840	5640	4380	7570	3770	34070	5450	17330	1780	1630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2001, BY WATER YEAR (WY)

MEAN	245	127	95.6	94.8	90.4	182	217	319	329	335	280	357
MAX	3701	983	546	451	446	682	1308	3673	2436	1521	913	5407
(WY)	1942	1942	1942	1942	1942	1941	1942	1941	1941	1960	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
(WY)	1965	1968	1967	1965	1965	1967	1967	1975	1977	1954	1964	1964

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1938 - 2001	
ANNUAL TOTAL	74852		52228			
ANNUAL MEAN	205		143		223	
HIGHEST ANNUAL MEAN					1314	1941
LOWEST ANNUAL MEAN					62.2	1964
HIGHEST DAILY MEAN	1140	Feb 24	1250	May 27	39800	Sep 24 1941
LOWEST DAILY MEAN	29	Sep 25	14	Jul 15	.00	Aug 21 1947
ANNUAL SEVEN-DAY MINIMUM	30	Sep 20	17	Jul 9	.10	Jul 26 1954
MAXIMUM PEAK FLOW			1280	May 27	[a]49600	Sep 24 1941
MAXIMUM PEAK STAGE			8.63	May 27	21.90	Sep 24 1941
INSTANTANEOUS LOW FLOW					[b].00	Oct 1 1946
ANNUAL RUNOFF (AC-FT)	148500		103600		161700	
10 PERCENT EXCEEDS	886		257		670	
50 PERCENT EXCEEDS	92		77		74	
90 PERCENT EXCEEDS	42		24		16	

e Estimated
a From rating curve extended above 16,000 ft^3/s, on basis of slope-area measurement at gage height 21.77 ft.
b Also occurred in 1947, 1954, 1962 and 1964.

08396500 PECOS RIVER NEAR ARTESIA, NM

LOCATION.--Lat 32°50'27", long 104°19'23", in $NW^1/_4NW^1/_4$ 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, and at mile 503.9.

DRAINAGE AREA.--15,300 mi^2, 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 with satellite telemetry. Elevation of gage is 3,291.92 ft above National Geodetic Vertical Datum of 1929 (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 those estimated, which are fair. Considerable flow regulation by Lake Sumner (station 08384000) since August 1937, and by Two Rivers Reservoir (station 08390600) since July 1963. Diversions and ground-water withdrawals for irrigation of about 154,000 acres, 1959 determination, upstream from station.

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 ft^3/s. The second highest flood occurred July 25, 1905, discharge downstream from Rio Penasco, 50,300 ft^3/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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	241	80	89	109	79	84	56	674	31	56	17
2	31	211	78	88	104	90	85	48	315	32	e50	14
3	33	154	78	93	102	90	82	52	247	29	45	13
4	35	160	78	95	104	98	77	56	220	27	39	12
5	30	152	78	94	101	100	74	52	215	25	32	12
6	29	161	77	92	97	95	70	47	151	e23	28	22
7	29	175	77	91	95	93	65	49	111	e22	24	29
8	29	165	76	91	93	111	60	48	101	20	22	30
9	29	191	76	88	90	245	60	52	93	18	23	27
10	31	177	75	87	88	207	60	52	135	18	22	26
11	31	156	74	87	87	198	64	53	121	17	21	28
12	35	141	73	84	87	202	58	47	98	16	20	27
13	39	128	73	87	85	190	59	84	84	14	23	26
14	51	120	74	87	84	163	54	159	77	13	20	27
15	64	114	82	86	81	147	55	108	84	12	20	28
16	71	110	84	87	79	126	57	78	70	58	21	30
17	71	105	85	87	78	114	59	270	55	612	24	30
18	72	103	84	88	77	110	65	670	53	752	26	26
19	156	102	83	91	75	101	63	785	47	874	19	24
20	135	98	84	92	76	98	61	893	43	e1010	18	23
21	110	96	83	92	76	107	55	1040	40	e1010	30	22
22	102	95	82	90	75	102	51	1100	38	e1000	35	22
23	114	94	81	91	75	100	50	1180	35	e1010	31	21
24	141	92	81	92	75	96	48	1100	32	e890	25	20
25	472	91	82	94	74	89	46	1040	30	554	22	21
26	823	89	84	93	78	86	46	1050	28	292	20	20
27	396	87	87	97	77	88	44	e1040	30	180	18	22
28	263	86	88	102	77	88	45	e1040	29	135	14	19
29	221	84	87	105	---	87	45	e1030	26	108	15	18
30	255	81	93	110	---	90	52	e1050	26	85	15	19
31	230	---	92	111	---	85	---	e1040	---	62	15	---
TOTAL	4158	3859	2509	2861	2399	3675	1794	15369	3308	8949	793	675
MEAN	134	129	80.9	92.3	85.7	119	59.8	496	110	289	25.6	22.5
MAX	823	241	93	111	109	245	85	1180	674	1010	56	30
MIN	29	81	73	84	74	79	44	47	26	12	14	12
AC-FT	8250	7650	4980	5670	4760	7290	3560	30480	6560	17750	1570	1340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2001, BY WATER YEAR (WY)

MEAN	248	135	106	105	101	186	217	357	376	332	268	355
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1937 - 2001	
ANNUAL TOTAL	74751		50349			
ANNUAL MEAN	204		138		233	
HIGHEST ANNUAL MEAN					1378	1941
LOWEST ANNUAL MEAN					64.8	1964
HIGHEST DAILY MEAN	1320	Feb 24	1180	May 23	44300	Sep 25 1941
LOWEST DAILY MEAN	29	Sep 21	12	Jul 15	.00	Aug 14 1946
ANNUAL SEVEN-DAY MINIMUM	29	Sep 21	14	Aug 30	.00	Aug 14 1946
MAXIMUM PEAK FLOW			1240	May 23	[a]51500	May 30 1937
MAXIMUM PEAK STAGE			8.64	May 23	14.70	May 30 1937
INSTANTANEOUS LOW FLOW			11	Jul 5	.00	Oct 1 1934
ANNUAL RUNOFF (AC-FT)	148300		99870		168700	
10 PERCENT EXCEEDS	828		225		664	
50 PERCENT EXCEEDS	91		81		80	
90 PERCENT EXCEEDS	43		22		17	

e Estimated
a From a slope-area measurement made at a site 15 miles upstream.

08396500 PECOS RIVER NEAR ARTESIA, NM--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1937 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
DEC 12...	0750	4.0	-1.0	684	74	--	8320	10.9	96	8.3	.0	210	.092
MAR 06...	0815	10.5	8.0	679	96	3.9	8610	9.8	102	8.1	.0	181	.030
JUN 12...	0810	24.5	25.5	675	101	17	6230	6.9	96	7.9	.0	75	.017
AUG 21...	1050	26.0	32.5	678	32	6.0	9520	7.0	101	8.1	.0	103	.030

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CYANIDE TOTAL (MG/L AS CN) (00720)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
DEC 12...	--	.070	.38	.55	1.50	.030	.030	.020	<.01	2200	563	188	1220
MAR 06...	.06	.030	.39	.59	.800	.050	.020	.020	<.01	2100	527	187	1140
JUN 12...	.07	<.010	.31	.73	<.020	.060	<.020	<.010	<.01	1600	442	109	766
AUG 21...	.03	<.010	.20	.60	<.020	.030	<.020	<.010	<.01	2200	560	201	1360

DATE	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)
DEC 12...	11	7.89	1990	1710	.8	13.8	<2.0	37.3	<.06	402	1.36	<.8	1.27
MAR 06...	11	7.26	2010	1660	.9	9.5	2.3	30.1	<.06	426	1.61	3.1	1.14
JUN 12...	8	6.11	1290	1340	.5	10.5	E1.4	65.8	<.20	270	<.10	<1.6	.75
AUG 21...	13	11.9	2260	1900	.8	8.8	2.1	72.3	<.20	537	E.08	.9	.88

DATE	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)
DEC 12...	7.8	<100	.11	12.0	4.0	3.23	<1.0	5	.11	<1	3.7	E2.2	7.74
MAR 06...	7.5	<50	.16	25.1	4.8	6.32	<1.0	5	1.10	1	3.2	E1.8	7.59
JUN 12...	9.3	<30	<.20	2.3	4.1	<.20	<3.0	8	.32	<3	E1.8	E1.5	3.63
AUG 21...	18.0	<50	E.21	4.3	4.6	<.60	<4.0	12	.25	<4	E1.8	E1.5	5.07

08396500 PECOS RIVER NEAR ARTESIA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)
DEC 12...	57	86	172	--	5810	79	<.14	255	177	--
MAR 06...	20	55	148	--	5640	66	<.14	184	153	7.9
JUN 12...	86	130	61	20	4010	80	<.01	248	67	--
AUG 21...	930	<3	84	9.6	6360	93	<.01	336	88	--

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	LINDANE DIS-SOLVED (UG/L) (39341)
MAR 06...	0815	U	<.010	<.002	<.011	.015	E.007	<.018	<.003	<.005	<.003	<.005	<.004

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MALA-THION, DIS-SOLVED (UG/L) (39532)	PARA-THION, DIS-SOLVED (UG/L) (39542)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)
MAR 06...	<.005	<.013	<.027	<.007	<.005	.010	<.002	<.004	<.006	<.002	<.009	<.009	<.011

DATE	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
MAR 06...	<.034	<.035	<.006	<.002	<.002	<.016	<.002	<.005	<.010	<.020	<.017	<.004	<.021

DATE	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
MAR 06...	<.002	<.011	<.041	<.005	<.003	<.010	<.007	<.023	<.050	<.006

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	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, SEDIMT, BED MA-TERIAL 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)
DEC 12...	0750	1.4	260	<.1	5.4	3.5	4	5100	3.9	250	<.01	20

Remark codes used in this report:
< -- Less than
E -- Estimated value

Null value remark codes used in this report:
U -- Analyzed for, not detected

08397600 RIO PENASCO NEAR DUNKEN, NM

LOCATION.--Lat 32°52'55", long 105°10'40", in SE $^1/_4$ NE $^1/_4$ sec. 35, T.16 S., R 17 E., Chaves County, Hydrologic Unit 1300010, located on downstream left end of bridge abutment on U.S. Highway 24, 0.1 mi south of U.S. Highway 82, and 5 mi north of Dunken.

DRAINAGE AREA.--583 mi^2, approximately.

PERIOD OF RECORD.--October 1952 to September 1999 (annual maximum only). February 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,290 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 4,900 ft^3/s, June 30, 2000, gage height, 13.50 ft, minimum 1.0 ft^3/s, July 24, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 504 ft^3/s, Sept. 16, gage height, 8.15 ft, minimum 1.0 ft^3/s, Aug. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	30	31	27	40	48	11	7.2	3.2	5.7	15	24
2	22	28	31	29	40	49	13	12	4.2	9.5	12	23
3	17	32	33	32	41	48	15	6.7	4.0	5.1	13	23
4	14	35	33	35	42	47	12	7.1	5.3	9.7	7.1	21
5	19	33	33	38	42	46	15	9.2	7.9	13	16	13
6	21	33	34	38	40	46	14	11	4.6	12	15	13
7	21	37	33	40	36	48	19	10	8.3	12	14	7.1
8	13	34	32	38	38	51	20	5.8	9.6	12	8.4	9.5
9	15	34	32	33	42	43	14	6.1	17	12	18	13
10	17	35	33	32	45	43	13	3.5	18	14	18	20
11	18	34	32	26	45	46	11	5.4	18	17	26	12
12	18	34	33	29	44	47	11	9.4	18	17	21	17
13	18	34	33	31	44	46	12	6.6	17	11	82	14
14	19	34	32	33	44	47	10	8.7	16	6.3	45	15
15	20	34	31	36	43	43	13	6.7	15	6.9	39	17
16	19	35	32	36	42	37	8.7	8.0	15	13	83	43
17	38	34	31	39	36	36	5.4	3.8	16	11	48	43
18	23	34	30	39	34	35	6.2	10	16	14	43	27
19	21	34	30	37	34	30	5.6	9.2	9.0	27	33	26
20	22	35	28	41	35	27	4.5	10	9.8	25	25	23
21	23	36	28	40	25	27	6.1	13	10	19	12	22
22	22	37	24	40	13	27	4.5	13	13	14	17	23
23	24	37	20	41	25	25	6.3	12	15	18	21	26
24	23	37	21	41	26	23	6.4	13	12	19	13	19
25	23	35	23	40	30	25	11	13	9.6	16	12	14
26	23	35	25	40	38	25	11	16	6.5	12	17	19
27	23	36	26	40	38	24	12	15	4.6	14	25	19
28	27	31	26	41	46	24	6.3	16	5.3	18	19	19
29	30	31	26	40	---	21	7.1	13	9.0	29	11	19
30	31	30	27	40	---	22	8.9	5.1	4.4	27	15	20
31	31	---	27	39	---	15	---	3.6	---	23	24	---
TOTAL	678	1018	910	1131	1048	1121	313.0	289.1	321.3	462.2	767.5	603.6
MEAN	21.9	33.9	29.4	36.5	37.4	36.2	10.4	9.33	10.7	14.9	24.8	20.1
MAX	38	37	34	41	46	51	20	16	18	29	83	43
MIN	13	28	20	26	13	15	4.5	3.5	3.2	5.1	7.1	7.1
AC-FT	1340	2020	1800	2240	2080	2220	621	573	637	917	1520	1200

WTR YR 2001 TOTAL 8662.7 MEAN 23.7 MAX 83 MIN 3.2 AC-FT 17180

08397620 RIO PENASCO NEAR HOPE, NM

LOCATION.--Lat 32°50'12", long 105°03'59", in SE $^{1}/_{4}$ NW $^{1}/_{4}$ sec. 11, T.17 S., R 18 E., Chaves County, Hydrologic Unit 1300010, located 3.0 mi southwest of the intersection of U.S. Highway 13 and Highway 82, on Scharbauer Ranch, and 11 mi above the Hope Retard Dam, near Hope, NM.

DRAINAGE AREA.--675 mi^2, approximately.

PERIOD OF RECORD.--February 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,931 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for those estimated, which are poor. Small diversions for irrigation upstream from station.

EXTREMES FOR PERIOD RECORD.--Maximum discharge 6,730 ft^3/s, June 30, 2000, gage height, 12.86 ft, minimum 0.0 ft^3/s, (no flow), many day.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1,360 ft^3/s, Aug. 14, gage height, 8.01 ft, minimum 0.0 ft^3/s (no flow), many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	14	17	14	23	24	.75	.00	.00	.00	.00	2.7
2	7.5	13	18	14	23	26	.58	.00	.00	.00	.00	2.3
3	4.0	14	19	18	24	24	2.1	.00	.00	.00	.00	2.3
4	3.3	18	20	18	24	23	.79	.00	.00	.00	.00	1.7
5	3.5	16	20	21	24	22	.62	.00	.00	.00	.00	.24
6	5.2	16	20	21	24	22	2.3	.00	.00	.00	.00	.00
7	6.8	23	20	21	21	22	2.2	.00	.00	.00	.00	.00
8	3.0	19	19	21	20	25	3.8	.00	.00	.00	.00	.00
9	3.0	18	20	16	24	19	3.2	.00	.00	.00	.00	.00
10	4.6	19	20	17	e25	18	1.0	.00	.00	.00	.00	.00
11	4.5	18	19	13	e25	20	.74	.00	.00	.00	.00	.00
12	4.9	17	19	13	e24	21	.63	.00	.00	.00	.00	.00
13	4.5	18	20	15	e23	20	.80	.00	.00	.00	12	.00
14	4.7	18	19	16	e23	19	.71	.00	.00	.00	75	.00
15	6.0	17	18	20	e22	18	.00	.00	.00	.00	7.1	.00
16	5.4	18	18	20	e21	15	.05	.00	.00	.00	28	20
17	76	18	18	22	e15	14	.34	.00	.00	.00	12	36
18	11	18	17	22	e14	14	.00	.00	.00	.00	8.9	6.5
19	8.0	19	18	20	e15	11	.00	.00	.00	.00	5.8	5.1
20	7.5	20	16	23	e17	8.3	.00	.00	.00	e.00	4.4	4.1
21	8.8	20	16	23	16	7.8	.00	.00	.00	.00	.60	5.2
22	8.3	21	15	23	2.2	8.1	.00	.00	.00	.00	.00	4.9
23	26	21	10	23	11	7.6	.00	.00	.00	.00	.07	5.7
24	9.9	21	11	23	11	6.5	.00	.00	.00	.00	.27	5.1
25	8.6	21	12	22	13	7.0	.00	.00	.00	.00	.00	1.5
26	8.5	21	14	22	16	7.2	.00	.00	.00	.00	.00	2.9
27	8.7	21	14	23	19	6.8	.00	.00	.00	.00	.73	3.1
28	11	18	14	24	21	6.2	.00	.00	.00	.00	2.8	2.9
29	12	17	14	23	---	5.4	.42	.00	.00	e13	.31	2.7
30	13	17	14	23	---	5.6	.08	.00	.00	e1.0	.00	2.7
31	14	---	14	23	---	4.7	---	.00	---	.00	2.6	---
TOTAL	307.8	549	523	617	540.2	458.2	21.11	0.00	0.00	14.00	160.58	117.64
MEAN	9.93	18.3	16.9	19.9	19.3	14.8	.70	.000	.000	.45	5.18	3.92
MAX	76	23	20	24	25	26	3.8	.00	.00	13	75	36
MIN	3.0	13	10	13	2.2	4.7	.00	.00	.00	.00	.00	.00
AC-FT	611	1090	1040	1220	1070	909	42	.00	.00	28	319	233

WTR YR 2001 TOTAL 3308.53 MEAN 9.06 MAX 76 MIN .00 AC-FT 6560

e Estimated

08398500 RIO PENASCO AT DAYTON, NM

LOCATION.--Lat 32°44'36", long 104°24'49", in NE$^1/_4$SE$^1/_4$SE$^1/_4$ 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 mi^2, approximately.

PERIOD OF RECORD.--April 1951 to February 2000, May 2000 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. 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 ft^3/s, determined in 1956, from rating curve extended above a slope-area measurement of 36,000 ft^3/s, for peak of Oct. 6 or 7, 1954.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
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	.31	.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	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.13	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	.004	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MAX	.08	.31	.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	.3	.6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2001, BY WATER YEAR (WY)

MEAN	4.87	1.46	.000	.000	.000	.000	.033	1.22	11.9	8.46	15.2	10.2
MAX	201	72.8	.016	.000	.000	.000	.77	41.0	528	221	328	372
(WY)	1955	1984	1975	1952	1952	1952	1999	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1951 - 2001	
ANNUAL TOTAL			0.44			
ANNUAL MEAN			.001		4.63	
HIGHEST ANNUAL MEAN					43.4	1986
LOWEST ANNUAL MEAN					.000	1959
HIGHEST DAILY MEAN	.31	Nov 7	.31	Nov 7	9490	Aug 23 1966
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Apr 1 1951
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Apr 1 1951
MAXIMUM PEAK FLOW			2.2	Nov 7	29800	Aug 23 1966
MAXIMUM PEAK STAGE			.83	Nov 7	16.40	Aug 23 1966
INSTANTANEOUS LOW FLOW					.00	Oct 1 1993
ANNUAL RUNOFF (AC-FT)			.9		3350	
10 PERCENT EXCEEDS	.00		.00		.00	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

08399500 PECOS RIVER (KAISER CHANNEL) NEAR LAKEWOOD, NM

LOCATION.--Lat 32°41'22", long 104°17'53", in NW$^1/_4$SE$^1/_4$ 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 with satellite telemetry. Elevation of gage is 3,268.53 ft above National Geodetic Vertical Datum of 1929 (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 good. Considerable flow regulation by Lake Sumner (station 08384000) since August 1937, and by Two Rivers Reservoir (station 08390600) since July 1963. Diversions and ground-water withdrawals for irrigation of about 170,000 acres, 1959 determination, upstream from station. Above about 1,500 ft^3/s, flow will begin bypassing station and depending on the magnitude and duration of flow, may reach Brantley Lake (station 08401450). Several observations of water temperature were made during the year. Instantaneous peaks are not published because flood channel is separate from Kaiser Channel and is not gaged.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	239	77	87	104	82	89	56	877	23	80	3.1
2	20	223	75	86	100	91	87	48	415	36	70	3.1
3	20	159	76	89	97	99	88	44	305	33	60	2.9
4	23	161	75	94	98	101	87	52	238	30	50	2.8
5	21	149	76	93	96	111	82	50	189	31	40	2.6
6	21	156	76	92	91	105	77	43	161	30	32	3.7
7	21	163	75	93	87	105	71	41	130	26	25	19
8	21	155	75	92	85	119	66	41	116	16	21	29
9	21	171	75	88	87	249	63	43	108	11	19	23
10	21	166	75	87	89	218	65	48	142	12	17	17
11	21	148	74	87	88	216	65	50	159	12	17	22
12	21	135	73	85	86	230	65	52	117	11	11	19
13	26	122	72	86	85	228	62	53	96	11	13	19
14	37	114	72	86	84	196	59	210	86	12	14	15
15	54	108	76	86	82	175	57	168	79	12	9.3	21
16	65	103	80	86	79	145	60	114	67	12	11	23
17	67	99	81	86	78	129	60	197	57	520	15	28
18	66	96	80	85	76	122	66	633	49	772	27	21
19	126	95	79	87	75	116	68	720	44	847	17	14
20	141	91	79	90	74	111	64	790	41	899	5.3	8.4
21	111	89	80	89	76	116	60	890	36	913	19	15
22	102	88	78	88	76	115	54	1040	34	917	41	9.9
23	209	86	76	89	77	113	51	1100	31	935	39	16
24	165	85	76	88	76	106	50	1120	28	920	24	6.7
25	339	85	78	91	74	101	48	1160	25	531	13	9.1
26	828	85	79	89	79	93	47	1180	22	327	8.7	9.5
27	421	83	81	92	81	96	46	1180	22	244	6.6	13
28	272	82	83	96	81	94	44	1190	24	188	3.5	12
29	220	80	85	99	---	92	43	1190	19	145	3.0	7.8
30	243	78	87	103	---	94	46	1180	19	120	3.1	7.6
31	230	---	91	106	---	92	---	1190	---	97	3.1	---
TOTAL	3973	3694	2415	2795	2361	4060	1890	15873	3736	8693	717.6	403.2
MEAN	128	123	77.9	90.2	84.3	131	63.0	512	125	280	23.1	13.4
MAX	828	239	91	106	104	249	89	1190	877	935	80	29
MIN	20	78	72	85	74	82	43	41	19	11	3.0	2.6
AC-FT	7880	7330	4790	5540	4680	8050	3750	31480	7410	17240	1420	800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2001, BY WATER YEAR (WY)

MEAN	140	91.5	78.8	80.6	80.4	156	148	254	249	273	250	194
MAX	695	339	272	307	332	417	489	1220	748	886	698	800
(WY)	1955	1998	1987	1987	2000	1987	1987	1973	1995	1960	1994	1988
MIN	.000	26.1	29.2	31.4	25.3	19.2	8.12	15.3	1.86	.041	.000	.000
(WY)	1965	1968	1965	1965	1972	1971	1967	1964	1977	1990	1964	1964

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1950 - 2001	
ANNUAL TOTAL	69355.6		50610.8			
ANNUAL MEAN	189		139		166	
HIGHEST ANNUAL MEAN					353	1987
LOWEST ANNUAL MEAN					64.1	1964
HIGHEST DAILY MEAN	1000	Feb 25	1190	May 28	2920	Jul 12 1960
LOWEST DAILY MEAN	7.6	Jun 17	2.6	Sep 5	.00	Aug 21 1951
ANNUAL SEVEN-DAY MINIMUM	19	Jun 13	3.0	Aug 30	.00	Jun 29 1953
MAXIMUM PEAK FLOW			1190	May 28	1460	May 5 1999
MAXIMUM PEAK STAGE			8.54	May 28	11.08	May 5 1999
INSTANTANEOUS LOW FLOW					.50	Aug 14 1995
ANNUAL RUNOFF (AC-FT)	137600		100400		120600	
10 PERCENT EXCEEDS	768		233		587	
50 PERCENT EXCEEDS	90		80		63	
90 PERCENT EXCEEDS	27		14		12	

08400000 FOURMILE DRAW NEAR LAKEWOOD, NM

LOCATION.--Lat 32°40'20", long 104°22'07", in $SW^1/_4NW^1/_4SE^1/_4$ sec.10, T.19 S., R.26 E., Eddy County, Hydrologic Unit 13060011, in left side of channel 360 ft downstream from ford on Lake 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.

DRAINAGE AREA.--265 mi^2, approximately.

PERIOD OF RECORD.--October 1951 to February 2000, May 2000 to current year.

REVISED 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 good except for those estimated, which are poor. No surface diversions upstream from station. No flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	e.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	e.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	e.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	e.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	e.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	e.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	e.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	e.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	e.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	e.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	e.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	e.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	e.00	e.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	e.00	e.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	e.00	e.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	e.00	e.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	e.00	e.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	e.00	e.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	e.00	e.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	e.00	e.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	e.00	e.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	e.00	e.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	e.00	e.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	e.00	e.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	e.00	e.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	e.00	e.00	e.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	e.00	e.00	e.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	e.00	e.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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2001, BY WATER YEAR (WY)

MEAN	1.63	.000	.000	.000	.000	.000	.006	1.12	8.73	2.73	15.2	9.23
MAX	73.0	.003	.000	.000	.000	.000	.27	35.2	403	78.0	488	424
(WY)	1955	1959	1952	1952	1952	1952	1999	1979	1986	1968	1966	1974
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1952	1952	1952	1952	1952	1952	1952	1952	1953	1954	1952	1952

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1952 - 2001	
ANNUAL MEAN					3.36	
HIGHEST ANNUAL MEAN					41.6	1966
LOWEST ANNUAL MEAN					.000	1969
HIGHEST DAILY MEAN	7.0	Jun 28			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
MAXIMUM PEAK FLOW					29300	Aug 23 1966
MAXIMUM PEAK STAGE					19.90	Aug 23 1966
INSTANTANEOUS LOW FLOW					.00	Oct 1 1951
ANNUAL RUNOFF (AC-FT)					2440	
10 PERCENT EXCEEDS	.00		.00		.00	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated

08401200 SOUTH SEVEN RIVERS NEAR LAKEWOOD, NM

LOCATION.--Lat 32°35'19", long 104°25'17", in $SE^1/_4SE^1/_4NW^1/_4$ 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 mi^2, approximately.

PERIOD OF RECORD.--October 1963 to April 1997, May 1999 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. Prior to May 20, 1999 at datum 2.19 ft higher.

REMARKS.--Records fair except for those estimated, which are poor. No surface diversions upstream from station, ground-water withdrawals for 240 acres, upstream from station. No flow most of time.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1941, about 30,000 ft^3/s, gage height, 22.8 ft, from old debris on left bank, former site and datum, from rating curve extended above 5,700 ft^3/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 2000 TO SEPTEMBER 2001
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	.43	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.49	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
7	.00	3.6	.00	.00	e.00	.01	.00	.00	.00	.00	.00	.00
8	.00	.06	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	e.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	4.5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	6.6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	2.9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	2.5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	16.50	16.58	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	.53	.55	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MAX	6.6	12	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	33	33	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

MEAN	.86	.072	.000	.000	.000	.000	.005	2.73	9.25	1.68	18.1	11.0
MAX	15.9	2.05	.000	.000	.000	.000	.17	83.9	275	28.3	369	237
(WY)	1984	1984	1964	1964	1964	2001	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001	
ANNUAL TOTAL	51.18		33.09			
ANNUAL MEAN	.14		.091		3.75	
HIGHEST ANNUAL MEAN					31.5	1966
LOWEST ANNUAL MEAN					.000	1989
HIGHEST DAILY MEAN	12	Nov 4	12	Nov 4	9300	Aug 23 1966
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1963
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 1 1963
MAXIMUM PEAK FLOW			127	Oct 21	[a]25500	May 30 1965
MAXIMUM PEAK STAGE			7.37	Oct 21	[b]20.00	May 30 1965
INSTANTANEOUS LOW FLOW					.00	Oct 1 1963
ANNUAL RUNOFF (AC-FT)	102		66		2720	
10 PERCENT EXCEEDS	.00		.00		.00	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
a From rating curve extended above 5,000 ft^3/s, on basis of slope-area measurement of peak flow.
b From floodmarks, datum 2.19 ft higher.

08401450 BRANTLEY LAKE NEAR CARLSBAD, NM

LOCATION.--Lat 32°32'48", long 104°22'43", in NE$^1/_4$SE$^1/_4$NE$^1/_4$ 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 mi^2, approximately (contributing area).

PERIOD OF RECORD.--August 1988 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,202.5 ft above National Geodetic Vertical Datum (NGVD) of 1929 (levels by Bureau of Reclamation). Sept. 1, 2001, elevations referenced to the 1988 (NGVD). Elevation of gage as of Sept. 1, 2001 is 3,204.19 above NGVD 1988.

REMARKS.--Lake is formed by a concrete and earthfill dam on Pecos River. Storage began August 31, 1988. Capacity, 348,540 acre-ft, from capacity table dated June 2001, between elevations 3,205.0 ft and 3,305.19 ft. Dead storage 2,010 acre-ft. Lake was created primarily for irrigation storage and flood control.

COOPERATION.--Records provided by 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, 26,470 acre-ft, June 2, elevation, 3,252.84 ft; minimum, 5,510 acre-ft, Sept. 10, elevation, 3,243.39 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 0700 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15080	11880	14370	16670	19620	21740	23110	13530	26160	14010	15780	7940
2	14200	11520	14410	16740	19740	21840	22770	13130	26470	13710	15350	7650
3	13380	11300	14450	16810	19830	21940	22270	12750	26140	13300	15000	7470
4	12530	11090	14580	16940	19930	22020	21840	12100	25580	12660	14620	7410
5	11660	10700	14650	17030	20020	22120	21330	11640	25060	12100	14450	7320
6	11050	10660	14710	17170	20170	21120	20870	11180	24440	11540	14250	7000
7	9950	10780	14820	17300	20270	21250	20270	10810	24010	11090	13810	6490
8	9110	11240	14890	17350	20340	21350	19680	10160	23530	10570	13560	6000
9	8570	11440	14930	17440	20290	21430	19080	9400	23030	10450	13280	5800
10	7960	11720	15010	17560	20400	21890	18480	8750	22690	10390	13170	5510
11	7230	12040	15050	17600	20480	22170	18120	8170	22560	10330	13060	16440
12	7230	12220	15100	17620	20580	22480	17670	7850	22330	9980	12750	16330
13	7160	12390	15190	17790	20660	22690	17250	7580	21960	9550	12470	16170
14	7160	12510	15230	17880	20750	22980	16920	7540	21580	9090	12160	15850
15	7050	12670	15340	17970	20900	23190	16810	7760	21180	8770	11790	15540
16	7050	12840	15340	18020	20970	23270	16580	7960	20870	8430	11480	15210
17	7090	12960	15530	18090	20950	23320	16440	8090	20770	8000	11090	14880
18	7300	13170	15470	18160	21020	23480	16210	8630	20700	8780	10830	14580
19	7360	13250	15540	18250	21070	23610	16050	9800	20500	9720	10510	14450
20	7590	13380	15600	18320	21120	23660	15850	11050	20150	10990	10290	14310
21	7630	13420	15670	18440	21200	23770	15780	12060	19710	12160	10080	14090
22	7640	13560	15740	18510	21270	23820	15440	13060	19200	13560	9880	13920
23	7590	13670	15870	18600	21340	23880	15510	14400	18550	14930	9710	13780
24	8180	13770	15910	18720	21370	23980	15490	15960	17980	16100	9470	13610
25	8380	13880	16040	18760	21370	24010	15510	17400	17480	16900	9320	13600
26	9440	14000	16180	18930	21420	24090	15490	18840	16950	17060	9240	13570
27	10660	14070	16200	19000	21470	24170	15350	20180	16600	16950	9220	13560
28	10970	14150	16310	19210	21720	24280	14860	21300	15940	16920	9150	13530
29	11130	14220	16360	19310	---	24360	14270	22200	15290	16830	9070	13500
30	11400	14280	16470	19380	---	24410	13840	24010	14670	16650	8750	13480
31	11700	---	16580	19520	---	23800	---	25120	---	16240	8390	---
MAX	15080	14280	16580	19520	21720	24410	23110	25120	26470	17060	15780	16440
MIN	7050	10660	14370	16670	19620	21120	13840	7540	14670	8000	8390	5510
(+)	3246.17	3247.42	3248.47	3249.74	3250.64	3251.86	3247.71	3252.35	3248.09	3248.59	3245.01	3242.92
(++)	-3770	+2580	+2300	+2940	+2200	+2080	-9960	+11280	-10450	+1570	-7850	+5090

CAL YR 2000 MAX 32810 MIN 3810 (++) +590
WTR YR 2001 MAX 26470 MIN 5510 (++) -1990

(+) Elevation in feet, at end of month.
(++) Change in contents, in acre-feet.

08401500 PECOS RIVER BELOW BRANTLEY DAM NEAR CARLSBAD, NM

LOCATION.--Lat 32°32'38", long 104°22'00", in NE$^1/_4$NW$^1/_4$SE$^1/_4$ 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 mi^2, approximately (contributing area).

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 with satellite telemetry. Elevation of gage is 3,191.15 ft above National Geodetic Vertical Datum of 1929 (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.--Records good. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	419	277	30	30	31	29	353	244	421	243	237	175
2	521	380	30	30	31	29	309	267	420	217	220	117
3	519	425	30	30	31	29	308	329	446	308	210	55
4	517	455	30	30	30	29	309	315	433	321	136	25
5	521	288	30	30	30	30	305	273	418	305	97	102
6	538	193	30	31	30	30	352	242	371	277	152	217
7	514	100	30	32	30	31	380	347	347	260	157	251
8	430	31	31	31	29	30	376	448	346	158	143	191
9	391	30	31	32	30	31	373	435	284	62	90	156
10	450	31	30	32	30	30	310	382	216	34	59	120
11	239	31	31	32	30	30	253	324	197	120	111	98
12	94	31	31	32	30	30	242	247	226	200	143	98
13	93	31	31	30	30	31	207	140	242	212	142	170
14	94	31	31	31	30	30	187	99	219	192	171	213
15	100	31	30	31	30	31	148	60	205	181	188	219
16	61	31	31	32	30	31	126	28	125	190	187	222
17	28	30	30	32	30	32	126	28	83	252	169	221
18	28	31	29	32	30	32	167	28	101	265	159	156
19	28	31	29	32	28	32	161	28	152	234	132	115
20	79	30	29	32	28	32	108	161	225	201	116	115
21	116	31	29	32	28	31	135	278	254	120	116	115
22	115	31	30	32	29	32	80	296	318	79	116	115
23	66	31	30	32	29	32	28	222	349	177	115	114
24	30	31	30	32	27	32	28	178	289	255	90	63
25	29	31	30	32	28	32	28	210	257	263	46	24
26	123	31	30	32	28	33	69	256	285	263	25	24
27	188	31	30	32	29	33	202	397	336	230	25	24
28	167	31	30	32	29	33	319	469	355	196	25	24
29	77	30	30	30	---	33	284	193	353	160	99	24
30	71	30	30	31	---	281	245	234	340	194	186	24
31	104	---	30	31	---	419	---	397	---	250	206	---
TOTAL	6750	2826	933	972	825	1600	6518	7555	8613	6419	4068	3587
MEAN	218	94.2	30.1	31.4	29.5	51.6	217	244	287	207	131	120
MAX	538	455	31	32	31	419	380	469	446	321	237	251
MIN	28	30	29	30	27	29	28	28	83	34	25	24
AC-FT	13390	5610	1850	1930	1640	3170	12930	14990	17080	12730	8070	7110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2001, BY WATER YEAR (WY)

MEAN	177	68.0	48.2	41.9	53.3	75.9	235	219	223	246	203	172
MAX	412	431	460	297	300	149	313	1058	641	527	311	500
(WY)	1995	1998	1992	1987	1987	1994	1998	1973	1992	1995	1999	1991
MIN	22.6	5.92	1.22	3.49	20.6	19.1	136	79.9	66.5	11.3	18.4	50.9
(WY)	1979	1989	1995	1995	1978	1990	1981	1976	1977	1976	1981	1976

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1972 - 2001	
ANNUAL TOTAL	61846.02		50666			
ANNUAL MEAN	169		139		154	
HIGHEST ANNUAL MEAN					282	1992
LOWEST ANNUAL MEAN					69.5	1977
HIGHEST DAILY MEAN	775	Jul 19	538	Oct 6	2050	Sep 3 1972
LOWEST DAILY MEAN	.30	Jan 16	24	Sep 25	.30	Nov 20 1994
ANNUAL SEVEN-DAY MINIMUM	4.0	Jan 22	28	Feb 19	.33	Nov 22 1988
ANNUAL RUNOFF (AC-FT)	122700		100500		111800	
10 PERCENT EXCEEDS	401		346		341	
50 PERCENT EXCEEDS	124		93		86	
90 PERCENT EXCEEDS	28		29		22	

08401900 ROCKY ARROYO AT HIGHWAY BRIDGE, NEAR CARLSBAD, NM

LOCATION.--Lat 32°30'23", long 104°22'28", in $SE^1/_4SE^1/_4$ 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 mi^2, approximately.

PERIOD OF RECORD.--November 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Since about 1941 the maximum discharge probably occurred Oct. 7, 1954, discharge, 63,600 ft^3/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 2000 TO SEPTEMBER 2001
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	.22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	102	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	152	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	7.1	.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	1.5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	297	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	43	.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	3.3	.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	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	2.5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	360.30	304.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	11.6	10.1	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MAX	297	152	.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	715	604	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

MEAN	8.41	.49	.015	.000	.000	.000	.054	2.06	15.6	2.36	22.3	17.9
MAX	185	10.1	.56	.002	.000	.000	1.50	37.6	468	19.3	616	335
(WY)	1975	2001	1975	1975	1964	1964	1965	1979	1986	1964	1966	1974
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1964	1964	1964	1964	1964	1964	1964	1964	1964	1965	1964	1964

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001	
ANNUAL TOTAL	665.40		664.65			
ANNUAL MEAN	1.82		1.82		5.78	
HIGHEST ANNUAL MEAN					53.9	1966
LOWEST ANNUAL MEAN					.000	1973
HIGHEST DAILY MEAN	297	Oct 15	297	Oct 15	13900	Aug 23 1966
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1963
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 1 1963
MAXIMUM PEAK FLOW			3520	Oct 15	[a]31600	Aug 23 1966
MAXIMUM PEAK STAGE			8.76	Oct 15	15.35	Aug 23 1966
INSTANTANEOUS LOW FLOW			.00	Oct 1	.00	Oct 1 1997
ANNUAL RUNOFF (AC-FT)	1320		1320		4190	
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 ft^3/s, on basis of slope-area measurement of peak flow.

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 mi^2, 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 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 fair except for those estimated, which are poor. Flow regulated by Brantley Lake (station 08401450) 4.8 mi upstream and other reservoirs and diversion dams. Diversions and ground-water withdrawals for irrigation of about 17,300 acres, 1959 determination, upstream from station. Discharge represents inflow to Lake Avalon. Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Peaks that probably exceeded 40,000 ft^3/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 ft^3/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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	363	e250	28	24	26	33	367	236	418	249	259	172
2	478	e340	28	24	24	30	318	252	415	197	236	121
3	478	e370	28	23	28	31	318	315	436	284	227	67
4	475	e400	27	25	28	33	318	312	433	316	168	27
5	477	e250	e30	25	27	34	317	267	418	295	117	75
6	e480	e180	e30	25	28	34	350	237	382	272	159	192
7	e460	e80	e29	25	28	36	385	308	353	251	184	237
8	e410	e30	e28	25	26	37	383	414	360	171	164	196
9	e380	e32	e27	25	26	34	380	412	300	68	125	153
10	e390	34	25	25	29	33	330	366	228	28	80	128
11	e280	33	25	25	29	34	266	322	203	88	118	100
12	e100	34	25	26	29	35	251	252	224	186	162	101
13	e87	34	25	23	29	37	223	153	246	207	162	152
14	e90	33	26	25	30	36	196	94	206	193	187	211
15	e92	33	24	26	30	37	165	67	186	177	212	217
16	e70	33	25	26	30	37	e166	24	127	179	189	224
17	e36	32	26	27	30	36	e167	24	62	223	164	226
18	e27	32	25	25	30	35	168	25	64	253	149	176
19	e27	32	25	22	31	38	177	25	106	225	130	120
20	e75	32	26	23	30	39	121	122	190	192	110	119
21	e112	31	26	26	31	40	131	270	228	133	112	120
22	e110	30	26	25	32	40	108	294	280	84	111	120
23	e60	30	26	22	33	37	35	235	328	146	111	118
24	e25	30	26	23	27	37	33	175	282	239	95	84
25	e30	30	26	23	31	37	31	201	239	264	57	29
26	e110	29	26	26	32	37	57	253	266	266	27	27
27	e160	28	26	24	33	37	180	368	315	243	27	27
28	e150	28	26	24	34	37	306	456	339	209	27	27
29	e70	28	26	21	---	37	294	243	338	178	74	27
30	e65	28	26	22	---	226	242	190	327	198	169	26
31	e100	---	26	26	---	416	---	390	---	259	194	---
TOTAL	6267	2586	818	756	821	1680	6783	7302	8299	6273	4306	3619
MEAN	202	86.2	26.4	24.4	29.3	54.2	226	236	277	202	139	121
MAX	480	400	30	27	34	416	385	456	436	316	259	237
MIN	25	28	24	21	24	30	31	24	62	28	27	26
AC-FT	12430	5130	1620	1500	1630	3330	13450	14480	16460	12440	8540	7180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

MEAN	202	82.5	69.6	59.7	65.6	85.4	251	197	227	256	262	209
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	1.04	1.98	19.5	17.7	133	46.4	18.6	10.8	21.5	12.3
(WY)	1965	1989	1995	1995	1993	1965	1981	1946	1946	1976	1947	1964

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL TOTAL	61516.73		49510			
ANNUAL MEAN	168		136		164	
HIGHEST ANNUAL MEAN					395	1955
LOWEST ANNUAL MEAN					66.8	1977
HIGHEST DAILY MEAN	780	Jul 19	480	Oct 6	39000	Aug 23 1966
LOWEST DAILY MEAN	.86	Jan 3	21	Jan 29	.00	Dec 21 1988
ANNUAL SEVEN-DAY MINIMUM	4.5	Jan 1	23	Jan 23	.46	Dec 15 1988
MAXIMUM PEAK FLOW			484	Oct 1	[a]69000	Aug 23 1966
MAXIMUM PEAK STAGE			2.82	Oct 1	[b]21.32	Aug 23 1966
INSTANTANEOUS LOW FLOW			8.7	Feb 2	.00	Dec 21 1988
ANNUAL RUNOFF (AC-FT)	122000		98200		119100	
10 PERCENT EXCEEDS	381		329		347	
50 PERCENT EXCEEDS	126		84		94	
90 PERCENT EXCEEDS	26		25		22	

e Estimated
a From rating curve extended above 25,000 ft^3/s, on basis of slope-area measurement at gage height 19.53 ft.
b From floodmarks at present datum.

08403500 CARLSBAD MAIN CANAL AT HEAD, NEAR CARLSBAD, NM

LOCATION.--Lat 32°29'25", long 104°15'08", in NW¼SW¼SW¼ 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 with satellite telemetry and concrete control. Elevation of gage is 3,156.50 ft above National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to March 1951, at site 20 ft upstream at datum 0.9 ft higher.

REMARKS.--Records good except for those estimated, which are fair. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	.00	.00	.00	.00	.00	317	235	388	186	186	119
2	136	.00	.00	.00	.00	.00	306	248	380	256	180	99
3	117	.00	.00	.00	.00	.00	353	273	e394	276	157	28
4	121	.00	.00	.00	.00	.00	333	245	e357	237	127	23
5	128	.00	.00	.00	.00	.00	330	204	e346	e261	108	88
6	111	.00	.00	.00	.00	.00	341	180	328	e245	157	216
7	85	.00	.00	.00	.00	.00	354	310	311	e245	133	194
8	6.5	.00	.00	.00	.00	.00	370	367	302	e145	115	149
9	.00	.00	.00	.00	.00	.00	345	333	253	e130	97	137
10	53	.00	.00	.00	.00	.00	272	295	210	e130	106	107
11	126	.00	.00	.00	.00	.00	202	269	217	e137	106	106
12	152	.00	.00	.00	.00	.00	204	207	215	e170	101	112
13	151	.00	.00	.00	.00	.00	176	105	171	124	100	180
14	147	.00	.00	.00	.00	.00	169	78	163	133	163	184
15	137	.00	.00	.00	.00	.00	138	52	149	145	177	205
16	141	.00	.00	.00	.00	.00	157	.00	110	171	167	204
17	157	.00	.00	.00	.00	.00	161	.00	73	229	137	172
18	127	.00	.00	.00	.00	.00	140	.00	105	220	163	120
19	109	.00	.00	.00	.00	.00	107	.00	133	184	106	129
20	66	.00	.00	.00	.00	.00	94	83	194	138	101	113
21	71	.00	.00	.00	.00	.00	111	223	220	102	113	112
22	74	.00	.00	.00	.00	.00	23	241	272	112	111	91
23	64	.00	.00	.00	.00	.00	.00	209	267	174	85	66
24	66	.00	.00	.00	.00	.00	.00	207	204	226	80	18
25	82	.00	.00	.00	.00	.00	.00	188	237	249	70	.00
26	132	.00	.00	.00	.00	82	69	213	256	224	.00	.00
27	143	.00	.00	.00	.00	182	209	190	304	171	.00	.00
28	124	.00	.00	.00	.00	291	250	207	313	148	.00	.00
29	80	.00	.00	.00	---	352	206	276	287	149	87	.00
30	51	.00	.00	.00	---	342	221	295	235	193	171	.00
31	.00	---	.00	.00	---	353	---	372	---	224	162	---
TOTAL	3090.50	0.00	0.00	0.00	0.00	1602.00	5958.00	6105.00	7394	5734	3566.00	2972.00
MEAN	99.7	.000	.000	.000	.000	51.7	199	197	246	185	115	99.1
MAX	157	.00	.00	.00	.00	353	370	372	394	276	186	216
MIN	.00	.00	.00	.00	.00	.00	.00	.00	73	102	.00	.00
AC-FT	6130	.00	.00	.00	.00	3180	11820	12110	14670	11370	7070	5890

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

MEAN	85.8	4.06	7.21	10.8	21.8	74.4	246	137	164	202	203	142
MAX	218	112	172	120	208	227	386	274	297	391	463	298
(WY)	2000	1955	1947	1956	1950	1940	1943	2000	1942	1940	1943	1939
MIN	.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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL TOTAL	44967.50		36421.50			
ANNUAL MEAN	123		99.8		107	
HIGHEST ANNUAL MEAN					174	1940
LOWEST ANNUAL MEAN					51.8	1964
HIGHEST DAILY MEAN	423	May 19	394	Jun 3	[a]526	Sep 15 1946
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 9	.00	Jul 1 1939
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 31	.00	Oct 16 1939
MAXIMUM PEAK FLOW			417	Apr 8	451	Jul 5 1999
MAXIMUM PEAK STAGE			3.64	May 9	3.65	Jul 5 1999
INSTANTANEOUS LOW FLOW			.00	Oct 8	.00	Oct 13 1997
ANNUAL RUNOFF (AC-FT)	89190		72240		77830	
10 PERCENT EXCEEDS	305		268		296	
50 PERCENT EXCEEDS	120		80		70	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
a Also occurred Sept. 16, 1946.

08403800 LAKE AVALON NEAR CARLSBAD, NM

LOCATION.--Lat 32°29'27", long 104°15'05", in NW$^1/_4$SW$^1/_4$ 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 mi^2, 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.

RESVISED RECORDS.--WSP 898: 1939.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,157.0 ft above National Geodetic Vertical Datum of 1929 (levels by 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 (based on February 1996 survey) 4,470 acre-ft between gage heights 0.0 (sill of outlet gates) and 20.4 ft crest of spillway 2. No dead storage. No storage allocated to flood control. New capacity table put into use January 1, 1997. Figures given herein represent usable contents. Water is used by Carlsbad Irrigation District.

COOPERATION.--Records provided by Carlsbad Irrigation District.

EXTREMES PERIOD OF RECORD (SINCE 1938).--Maximum contents, 11,000 acre-ft, May 22, 1941, gage height, 25.0 ft; no storage at times when natural flow is passing through reservoir.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 3,430 acre-ft, Mar. 9, gage height, 19.20 ft; minimum, 907 acre-ft, June 22, gage height, 15.60 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1330	1520	2060	2590	3110	3270	1460	1150	1090	1330	1210	1270
2	1400	1520	2060	2590	3110	3350	1460	1090	1090	1330	1270	1330
3	1400	1460	2130	2640	3110	3350	1330	1030	1030	1150	1270	1400
4	1330	1590	2130	2640	3110	3350	1270	1030	1090	1210	1400	1400
5	1330	1660	1920	2640	3110	3350	1210	1090	1090	1270	1400	1400
6	1270	1330	1920	2640	3110	3350	1090	1150	1150	1330	1270	1270
7	1330	1030	1940	2720	3180	3350	1150	1150	1150	1330	1270	1270
8	1400	1400	1990	2720	3180	3350	1090	1030	1150	1520	1330	1330
9	1400	1400	2060	2720	3180	3430	1030	1090	1210	1460	1330	1400
10	1400	1460	2060	2720	3180	3430	1090	1150	1210	1330	1270	1400
11	1330	1460	2060	2790	3180	3430	1150	1150	1150	1150	1210	1330
12	1400	1520	2130	2790	3180	3430	1210	1270	1090	1030	1210	1270
13	1270	1520	2130	2790	3180	3430	1270	1270	1030	1090	1210	1150
14	1270	1520	2130	2790	3180	3430	1270	1270	1150	1210	1210	1150
15	1210	1600	2200	2790	3180	3430	1270	1270	1150	1270	1210	1150
16	1790	1600	2200	2790	3180	3430	1210	1270	1270	1270	1210	1150
17	1520	1660	2200	2790	3180	3430	1150	1270	1210	1210	1210	1150
18	1270	1660	2280	2870	3180	3430	1030	1270	1150	1210	1270	1270
19	1150	1720	2280	2870	3180	3430	1030	1330	1030	1270	1270	1270
20	966	1790	2280	2870	3180	3430	1090	1330	966	1270	1270	1210
21	1030	1790	2350	2870	3270	3430	1090	1270	966	1400	1270	1150
22	1090	1860	2350	2950	3270	3430	1030	1270	907	1330	1270	1150
23	1150	1920	2350	2950	3270	3430	1210	1330	907	1210	1270	1150
24	1330	1920	2350	2950	3270	3430	1210	1270	1030	1090	1270	1210
25	1270	1920	2420	2950	3270	3430	1270	1150	1150	1090	1270	1270
26	1090	1990	2420	2950	3270	3430	1270	1090	1090	1090	1270	1330
27	1090	1990	2420	3030	3270	3180	1270	1150	1090	1150	1270	1330
28	1150	1990	2490	3030	3270	2720	1030	1460	1090	1270	1330	1330
29	1270	1990	2490	3030	---	2200	1150	1720	1090	1330	1330	1330
30	1210	2060	2490	3030	---	1520	1150	1400	1150	1330	1210	1400
31	1330	---	2590	3030	---	1400	---	1210	---	1210	1210	---
MAX	1790	2060	2590	3030	3270	3430	1460	1720	1270	1520	1400	1400
MIN	966	1030	1920	2590	3110	1400	1030	1030	907	1030	1210	1150
(+)	3173.30	3174.40	3175.10	3175.70	3176.00	3172.80	3173.00	3173.10	3173.00	3173.10	3173.10	3173.40
(++)	+120	+730	+530	+440	+240	-1870	-250	+60	-60	+60	0	+190

CAL YR 2000 MAX 2590 MIN 19 (++) +2569
WTR YR 2001 MAX 3430 MIN 907 (++) +190

(+) Elevation in feet, at end of month.
(++) Change in contents, in acre-feet.

08404000 PECOS RIVER BELOW AVALON DAM, NM

LOCATION.--Lat 32°28'55", long 104°15'47", in $SW^1/_4SW^1/_4NE^1/_4$ sec.14, T.21 S., R.26 E., Eddy County, Hydrologic Unit 13060011, on right bank 4,800 ft downstream from Avalon Dam, 4.5 mi northwest of Carlsbad, and at mile 466.3.

DRAINAGE AREA.--18,080 mi^2, approximately (contributing area).

PERIOD OF RECORD.--January 1906 to March 1907 (published as "at Avalon"), June 1951 to current year.

GAGE.--Water-stage recorder with satellite telemetry. 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 ft^3/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 ft^3/s, at site 6.5 mi downstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	121	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	372	376	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	369	403	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	368	417	141	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	364	417	23	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	364	387	16	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	369	242	14	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	376	17	12	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	377	12	5.3	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	376	9.2	.96	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	150	5.5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	10	1.9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	5.2	.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	2.8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	2.1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	3.6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	4.8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	6.7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	2.1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	3614.39	2408.70	212.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	117	80.3	6.85	.000	.000	.000	.000	.000	.000	.000	.000	.000
MAX	377	417	141	.00	.00	.00	.00	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	7170	4780	421	.00	.00	.00	.00	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2001, BY WATER YEAR (WY)

MEAN	104	36.5	22.1	9.33	10.5	4.29	1.20	37.9	52.8	37.7	54.4	48.8
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1951 - 2001	
ANNUAL TOTAL	10067.08		6235.35			
ANNUAL MEAN	27.5		17.1		35.5	
HIGHEST ANNUAL MEAN					206	1955
LOWEST ANNUAL MEAN					.000	1953
HIGHEST DAILY MEAN	417	Nov 4	417	Nov 4	33600	Aug 23 1966
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 21	.00	Jun 1 1951
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 21	.00	Jun 1 1951
MAXIMUM PEAK FLOW					[a]55500	Aug 23 1966
MAXIMUM PEAK STAGE					[b]26.40	Aug 23 1966
INSTANTANEOUS LOW FLOW					.00	Oct 1 1999
ANNUAL RUNOFF (AC-FT)	19970		12370		25700	
10 PERCENT EXCEEDS	16		2.0		.07	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

a From rating curve extended above 33,000 ft^3/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 NE$^1/_4$NW$^1/_4$SE$^1/_4$ sec.7, T.22 S., R.27 E., Eddy County, Hydrologic Unit 13060011, on downstream side of bridge on south Canal Street in Carlsbad, and 0.6 mi upstream from mouth. Mouth at Pecos River mile 459.2.

DRAINAGE AREA.--450 mi^2, 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. A Natural Resources 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 during water year.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 23, 1966, reached a discharge of 66,000 ft^3/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 2000 TO SEPTEMBER 2001
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	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2001, BY WATER YEAR (WY)

MEAN	7.05	.70	.000	.000	.000	.000	.000	.39	13.6	.43	5.81	23.1
MAX	196	19.7	.000	.000	.000	.000	.000	8.81	386	12.4	162	331
(WY)	1975	1979	1974	1973	1973	1973	1973	1979	1986	1981	1984	1980
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1974	1974	1974	1973	1973	1973	1973	1973	1973	1973	1973	1973

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1973 - 2001	
ANNUAL MEAN					4.36	
HIGHEST ANNUAL MEAN					31.7	1986
LOWEST ANNUAL MEAN					.000	1976
HIGHEST DAILY MEAN					8750	Sep 26 1980
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Jan 1 1973
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Jan 1 1973
MAXIMUM PEAK FLOW					27000	Sep 26 1980
MAXIMUM PEAK STAGE					12.53	Jun 24 1986
INSTANTANEOUS LOW FLOW					.00	Oct 1 1993
ANNUAL RUNOFF (AC-FT)					3160	
10 PERCENT EXCEEDS	.00		.00		.00	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

08405200 PECOS RIVER BELOW DARK CANYON DRAW, AT CARLSBAD,NM

LOCATION.--Lat 32°24'37", long 104°12'58", in NE$^1/_4$SW$^1/_4$NW$^1/_4$ 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 mi^2, approximately, contributing area.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1970 to current year.

GAGE.--Water-stage recorder with satellite telemetry 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 those estimated, which are poor. Flow regulated by Lake Avalon (station 08403800) 8.1 mi upstream and by several other reservoirs and up to Nov. 1982 at low stages by power plant. Power plant discontinued operation Nov. 1982. Diversions and ground-water withdrawals upstream from station for irrigation of about 198,000 acres; supplemental ground-water withdrawals irrigate about 23,000 acres downstream, 1959 determination.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e10	35	17	18	48	30	19	2.4	3.7	6.1	1.5	e2.0
2	e330	328	16	44	47	30	19	1.5	e4.0	5.0	4.3	e2.0
3	e330	362	16	28	47	28	20	.69	e4.0	3.7	4.1	e2.0
4	e325	391	80	1.9	47	26	21	3.0	e4.0	4.0	2.5	e2.0
5	e320	369	59	8.8	47	25	25	8.0	e4.0	4.4	3.9	e2.0
6	e320	350	18	18	53	24	32	4.7	3.6	5.0	3.7	e2.0
7	321	337	18	18	64	23	23	5.5	2.4	6.7	3.9	e3.0
8	326	33	17	17	60	24	25	5.1	e4.0	11	3.2	e5.0
9	331	23	18	e17	55	21	30	5.2	e7.0	11	3.1	e6.0
10	330	21	17	e17	52	22	28	5.8	e10	10	3.9	e5.0
11	220	21	18	17	50	21	4.2	9.2	15	6.4	3.7	e4.0
12	28	20	16	18	49	21	34	14	14	6.0	3.7	e3.0
13	24	19	18	19	31	21	36	6.5	e10	5.9	3.0	e2.0
14	23	19	17	17	26	19	25	8.6	8.6	6.0	2.9	e2.0
15	39	20	18	18	37	21	25	8.1	7.0	6.7	e3.0	e3.0
16	52	19	16	32	38	22	13	7.0	6.4	7.2	e4.0	e6.0
17	41	18	18	36	39	22	1.7	7.6	5.9	5.5	e4.0	e6.0
18	29	22	17	35	39	22	.74	7.7	6.2	5.4	4.3	e4.0
19	23	18	15	35	48	22	.79	7.9	6.1	5.9	4.5	e4.0
20	22	18	18	35	52	22	2.3	7.8	5.6	6.5	4.1	e4.0
21	18	17	16	35	48	22	.91	6.3	6.2	6.3	3.3	e4.0
22	17	18	17	35	46	22	3.0	9.0	6.2	5.6	2.1	e4.0
23	30	19	17	35	43	22	1.3	9.9	7.1	4.6	2.6	e4.0
24	19	18	17	37	34	22	2.7	7.7	7.6	3.8	2.3	e4.0
25	17	18	18	44	34	22	.98	7.1	6.9	2.9	2.2	e3.0
26	17	17	17	37	34	23	.98	7.5	6.7	2.2	e2.0	e3.0
27	17	18	17	30	33	23	1.0	7.5	6.6	1.8	e2.0	e3.0
28	22	18	17	31	31	24	1.5	7.8	6.5	1.1	e2.0	e3.0
29	16	17	16	29	---	24	2.3	7.3	6.8	2.0	e2.0	e3.0
30	16	17	18	29	---	25	2.7	6.0	6.4	1.9	e2.0	e4.0
31	18	---	18	41	---	22	---	5.6	---	1.7	e2.0	---
TOTAL	3651	2620	635	832.7	1232	717	402.10	207.99	198.5	162.3	95.8	104.0
MEAN	118	87.3	20.5	26.9	44.0	23.1	13.4	6.71	6.62	5.24	3.09	3.47
MAX	331	391	80	44	64	30	36	14	15	11	4.5	6.0
MIN	10	17	15	1.9	26	19	.74	.69	2.4	1.1	1.5	2.0
AC-FT	7240	5200	1260	1650	2440	1420	798	413	394	322	190	206

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2001, BY WATER YEAR (WY)

MEAN	87.7	74.2	45.6	36.9	38.7	29.5	20.3	55.5	105	57.2	35.8	106
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1970 - 2001	
ANNUAL TOTAL	13558.6		10858.39			
ANNUAL MEAN	37.0		29.7		58.3	
HIGHEST ANNUAL MEAN					242	1987
LOWEST ANNUAL MEAN					10.9	1977
HIGHEST DAILY MEAN	391	Nov 4	391	Nov 4	22800	Jun 24 1986
LOWEST DAILY MEAN	3.5	Jun 23	.69	May 3	.00	Jun 16 1971
ANNUAL SEVEN-DAY MINIMUM	5.0	May 12	1.5	Apr 17	.00	Apr 16 1972
MAXIMUM PEAK FLOW			551	Oct 3	[a]26300	Aug 10 1984
MAXIMUM PEAK STAGE			3.62	Oct 3	[b]15.22	Aug 10 1984
INSTANTANEOUS LOW FLOW					1.0	Mar 25 1995
ANNUAL RUNOFF (AC-FT)	26890		21540		42270	
10 PERCENT EXCEEDS	35		44		49	
50 PERCENT EXCEEDS	13		17		18	
90 PERCENT EXCEEDS	8.3		2.3		4.5	

e Estimated
a From rating curve extended above 12,000 ft^3/s, on basis of slope-area measurement of peak flow.
b From floodmarks.

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, NM at which sample collection was discontinued after September 1987.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
OCT													
16...	0915	16.0	15.0	685	42	2440	8.3	94	7.7	880	253	60.3	200
DEC													
07...	0915	13.5	10.0	686	17	4290	9.6	104	7.7	1400	371	126	389
FEB													
26...	0930	14.0	14.0	687	32	4860	9.0	99	7.6	1600	389	146	433
APR													
19...	0930	18.0	16.0	670	.75	4940	7.7	94	7.1	1600	414	144	445
JUN													
12...	0830	22.0	27.0	643	16	3850	5.2	72	7.1	1200	311	112	390
AUG													
29...	0920	23.0	25.0	685	.68	5040	7.6	101	7.0	1800	441	162	501

DATE	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
OCT						
16...	3	4.18	333	780	.6	12.0
DEC						
07...	4	27.9	591	1060	.8	16.5
FEB						
26...	5	5.74	732	1260	.8	18.0
APR						
19...	5	5.69	806	1310	.7	16.6
JUN						
12...	5	5.93	667	1060	.7	15.7
AUG						
29...	5	6.67	921	1390	.7	21.5

08405450 BLUE SPRINGS ABOVE DIVERSIONS NEAR WHITES CITY, NM

LOCATION.--Lat 32°11'07", long 104°16'50", in $SW^1/_4$ $NE^1/_4$ $SW^1/_4$ sec. 27, T.24 S., R.26 E., Eddy County, Hydrologic Unit 13060011, upstream from all diversions, and 5.5 mi east of Whites City, NM.

PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,110 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. Station located above all known diversions. Several observation of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge 18 ft^3/s, Sept. 21, 2001, minimum daily discharge 7.8 ft^3/s, Sept. 16, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge 18 ft^3/s, Sept. 21, minimum daily discharge 8.7 ft^3/s, Mar. 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	11	12	9.7	13	12	13	12	11	9.1	10
2	11	11	12	12	9.7	13	12	12	12	11	9.1	10
3	11	11	12	12	9.7	13	13	12	12	11	9.5	9.9
4	11	13	12	11	9.4	13	13	12	12	11	9.6	9.8
5	11	12	12	10	9.7	13	13	12	12	11	9.5	9.8
6	11	12	12	10	9.6	13	13	12	12	9.9	9.5	9.8
7	11	12	12	10	9.6	14	13	12	11	9.8	9.6	9.8
8	11	12	12	10	9.5	16	13	12	12	9.3	9.6	9.9
9	11	12	12	11	8.9	13	13	12	12	9.2	9.7	9.6
10	11	12	12	11	8.9	13	13	12	12	9.3	9.7	9.6
11	11	11	12	11	8.9	13	13	13	12	9.7	9.7	9.7
12	11	12	12	11	8.9	13	13	14	12	10	9.8	9.8
13	11	11	12	11	8.9	13	13	12	12	10	10	9.8
14	11	11	12	11	8.7	13	13	12	11	10	10	10
15	12	11	12	11	9.8	13	13	12	11	9.7	10	10
16	12	11	12	11	13	13	13	12	11	9.7	10	10
17	12	11	12	11	13	13	12	12	11	9.7	10	10
18	12	11	12	11	13	13	12	11	10	9.7	10	10
19	11	11	12	11	13	13	12	12	11	9.6	10	10
20	11	12	12	11	13	13	12	12	10	9.2	10	10
21	11	12	12	11	13	13	12	12	11	9.1	10	18
22	11	12	12	11	13	13	12	12	11	9.1	10	12
23	11	12	12	11	13	13	12	12	11	9.0	10	9.8
24	11	12	12	11	13	13	13	12	11	9.2	10	9.8
25	11	12	12	11	13	13	13	12	11	9.3	10	9.9
26	11	11	12	11	13	13	13	12	11	9.3	10	9.8
27	11	11	12	11	13	13	13	12	11	9.3	10	9.7
28	12	11	12	11	13	12	13	12	11	9.2	11	9.7
29	12	11	12	11	---	8.5	13	12	11	9.2	11	9.7
30	12	11	12	10	---	11	13	12	11	9.3	11	9.6
31	12	---	12	10	---	12	---	12	---	9.3	10	---
TOTAL	349	346	371	338	308.9	398.5	381	375	340	301.1	307.4	305.5
MEAN	11.3	11.5	12.0	10.9	11.0	12.9	12.7	12.1	11.3	9.71	9.92	10.2
MAX	12	13	12	12	13	16	13	14	12	11	11	18
MIN	11	11	11	10	8.7	8.5	12	11	10	9.0	9.1	9.6
AC-FT	692	686	736	670	613	790	756	744	674	597	610	606

WTR YR 2001 TOTAL 4121.4 MEAN 11.3 MAX 18 MIN 8.5 AC-FT 8170

08405500 BLACK RIVER ABOVE MALAGA, NM

LOCATION.--Lat 32°13'44", long 104°09'02", in SW¼NW¼SW¼ 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, 4.8 mi west of Malaga, and 7.1 mi upstream from mouth. Mouth at Pecos River mile 436.3.

DRAINAGE AREA.--343 mi^2.

PERIOD OF RECORD.--March to December 1940, December 1946 to current year.

REVISED RECORDS.--WSP 1632: 1948, 1949-50(P).

GAGE.--Water-stage recorder with satellite telemetry 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 except for those estimated, which are poor. 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 ft^3/s, from rating curve extended above 1,400 ft^3/s on basis of slope-area measurements at gage heights 8.41 ft and 12.60 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	7.6	7.3	8.7	8.4	11	8.3	8.8	6.2	5.0	6.9	4.5
2	3.8	7.6	7.3	8.7	8.2	e10	9.0	8.4	6.1	4.9	6.0	4.5
3	5.1	8.1	7.6	8.9	8.1	e10	9.1	8.4	5.9	4.9	4.7	4.4
4	5.4	19	7.6	9.0	8.0	e9.5	9.4	8.2	5.6	5.0	e4.8	4.3
5	5.4	12	7.6	9.0	8.0	e10	9.2	8.1	5.6	5.0	e4.6	4.1
6	5.6	8.7	7.4	8.3	7.9	e10	9.1	8.1	5.6	5.0	e4.5	4.0
7	5.8	37	7.3	7.9	8.0	11	8.6	8.4	5.9	4.9	e4.4	3.8
8	6.2	23	7.4	7.6	7.9	22	8.7	8.4	6.5	6.0	4.3	3.6
9	6.4	13	7.5	7.5	7.4	13	8.7	8.2	6.5	4.1	4.6	3.6
10	6.6	9.7	7.6	7.3	7.3	12	8.8	8.0	6.5	4.2	4.7	3.7
11	6.7	8.9	7.9	7.3	7.6	e11	8.4	8.0	6.1	4.2	4.7	3.8
12	7.1	8.4	7.6	7.3	7.6	e9.5	8.5	9.0	5.8	4.4	4.7	3.8
13	7.0	8.3	8.1	7.4	7.7	e9.0	9.4	10	5.4	4.4	4.7	3.9
14	6.9	8.1	8.1	7.2	7.9	e8.0	9.1	8.7	5.2	4.5	4.5	4.1
15	6.7	8.1	8.2	7.3	7.9	e7.5	8.7	8.0	5.2	4.5	4.5	4.1
16	6.7	8.1	8.2	7.3	7.6	e7.0	8.7	7.5	5.3	5.3	4.6	4.1
17	48	8.1	8.1	7.6	7.9	e7.5	75	7.2	5.4	4.4	4.9	4.6
18	42	8.4	8.0	7.6	8.8	e8.5	13	7.2	5.4	3.9	5.2	4.2
19	45	8.4	8.0	7.6	9.3	e8.0	9.5	7.1	5.3	4.6	5.0	3.9
20	11	7.9	8.1	7.8	9.4	e7.5	9.1	6.9	5.2	5.6	4.9	3.8
21	8.3	7.9	8.1	7.9	9.5	e6.5	8.4	6.6	5.2	5.6	4.7	150
22	8.0	7.7	8.1	7.9	9.7	e5.5	8.2	6.7	5.2	5.0	4.7	81
23	7.9	7.8	8.3	7.9	9.7	e5.5	8.0	6.9	5.2	4.7	4.7	8.0
24	7.7	7.9	8.4	7.9	9.7	e5.5	8.2	6.9	5.3	4.5	e5.0	6.2
25	7.6	7.8	8.7	7.9	9.6	e6.0	8.3	6.7	5.2	4.3	e5.5	5.0
26	7.5	7.6	9.2	7.9	9.8	e6.0	8.4	6.8	6.1	4.3	e35	4.5
27	7.4	8.1	9.1	8.5	10	e7.0	8.4	7.0	6.5	4.2	e9.0	4.4
28	31	7.8	9.0	9.8	11	e6.5	8.4	6.3	5.4	4.2	5.7	4.3
29	21	7.6	8.9	9.5	---	e7.0	8.5	5.7	4.5	4.5	4.9	4.3
30	9.5	7.6	8.8	8.8	---	9.6	9.0	6.0	4.0	4.6	4.6	4.3
31	8.2	---	8.9	8.4	---	8.0	---	6.0	---	4.5	4.5	---
TOTAL	363.5	306.2	250.4	249.7	239.9	275.1	332.1	234.2	167.3	145.2	185.5	352.8
MEAN	11.7	10.2	8.08	8.05	8.57	8.87	11.1	7.55	5.58	4.68	5.98	11.8
MAX	48	37	9.2	9.8	11	22	75	10	6.5	6.0	35	150
MIN	2.0	7.6	7.3	7.2	7.3	5.5	8.0	5.7	4.0	3.9	4.3	3.6
AC-FT	721	607	497	495	476	546	659	465	332	288	368	700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2001, BY WATER YEAR (WY)

MEAN	13.0	9.56	9.76	10.6	10.4	7.17	10.6	12.5	15.2	14.6	23.5	19.5
MAX	80.4	33.0	17.5	18.7	19.7	15.0	55.5	106	87.8	111	553	121
(WY)	1955	1966	1989	1987	1987	1993	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1948 - 2001	
ANNUAL TOTAL	3810.8		3101.9			
ANNUAL MEAN	10.4		8.50		13.1	
HIGHEST ANNUAL MEAN					58.3	1966
LOWEST ANNUAL MEAN					6.82	1977
HIGHEST DAILY MEAN	547	Jul 9	150	Sep 21	12000	Aug 23 1966
LOWEST DAILY MEAN	2.0	Oct 1	2.0	Oct 1	.01	Sep 30 1998
ANNUAL SEVEN-DAY MINIMUM	3.4	Sep 27	3.7	Sep 7	1.0	Nov 9 1977
MAXIMUM PEAK FLOW			1720	Sep 21	[a]74600	Aug 23 1966
MAXIMUM PEAK STAGE			5.06	Sep 21	[b]21.70	Aug 23 1966
INSTANTANEOUS LOW FLOW			2.0	Oct 1	.00	Sep 30 1998
ANNUAL RUNOFF (AC-FT)	7560		6150		9460	
10 PERCENT EXCEEDS	10		9.6		14	
50 PERCENT EXCEEDS	7.6		7.6		8.3	
90 PERCENT EXCEEDS	5.9		4.4		4.2	

e Estimated
a From rating curve extended above 5,900 ft^3/s, on basis of slope-area measurements at gage heights 12.60 ft and 21.7 ft.
b From floodmarks.

08406000 BLACK RIVER AT MALAGA, NM

LOCATION.--Lat 32°14'58", long 104°03'53", in $SW^1/_4$ $NW^1/_4$ $SE^1/_4$ sec. 2, T.24 S., R.28 E., Eddy County, Hydrologic Unit 13060011, on left bank of Black River, about 1.3 mi upstream from the mouth of Pecos River.

DRAINAGE AREA.--350 mi^2, approximately.

PERIOD OF RECORD.--February 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,910 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for those estimated, which are fair. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 1,840 ft^3/s, July 9, 2000, gage height, 15.43 ft, from floodmarks; minimum daily discharge 2.2 ft^3/s, May 31, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 782 ft^3/s, Sept. 22, gage height, 10.93 ft, from floodmarks; minimum daily discharge 2.9 ft^3/s, June 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	20	12	14	e10	13	12	6.4	4.3	3.4	7.8	3.6
2	6.0	16	12	14	e10	13	8.3	6.2	10	9.6	11	3.6
3	5.7	12	13	12	e10	13	6.5	4.9	4.1	9.6	5.9	3.5
4	5.3	18	14	10	e10	13	8.5	16	9.1	12	4.8	3.6
5	5.1	20	14	14	e10	13	9.8	8.7	16	6.9	4.4	3.7
6	5.1	15	13	13	e9.8	13	6.5	4.5	17	3.4	4.5	3.6
7	5.2	25	12	e11	9.8	14	6.3	3.9	8.9	3.3	4.4	3.5
8	4.9	36	12	e10	9.9	28	5.2	3.9	19	8.3	4.8	3.6
9	5.2	20	12	e10	e9.9	18	14	13	19	6.1	4.7	3.6
10	5.7	16	12	10	e9.8	11	11	11	25	3.5	4.7	5.0
11	5.0	14	13	e10	e9.6	11	11	5.3	12	3.2	4.4	4.9
12	4.8	14	12	e10	9.5	8.4	6.6	10	14	3.1	4.4	4.5
13	4.6	13	14	11	9.8	6.4	5.4	7.5	8.9	3.0	4.2	4.2
14	5.8	13	14	e10	10	4.8	5.9	4.1	11	3.0	4.2	4.1
15	9.0	12	14	e10	9.9	6.4	5.7	4.2	4.2	3.0	4.8	4.2
16	9.1	12	14	10	9.4	6.4	5.3	3.6	4.0	3.1	6.5	4.7
17	45	12	13	11	9.3	5.0	25	3.4	3.8	8.6	5.4	10
18	90	13	13	10	9.8	7.7	17	3.3	3.4	7.1	4.7	6.0
19	22	14	12	e10	11	8.8	7.5	3.2	5.4	4.6	3.7	4.9
20	11	13	13	e10	10	6.3	6.1	3.1	6.2	4.6	3.5	4.7
21	5.6	12	14	e10	6.1	4.7	5.3	3.1	3.2	5.1	3.6	5.4
22	5.1	12	12	e10	4.5	4.5	11	6.2	2.9	6.0	3.6	131
23	22	12	12	11	4.4	4.5	17	19	2.9	5.4	3.9	11
24	18	13	14	e11	4.2	4.4	6.7	8.0	6.7	8.2	4.6	6.6
25	16	12	14	11	8.6	4.4	5.2	3.7	9.9	4.5	9.7	11
26	9.3	12	14	e10	11	5.2	4.9	4.3	7.3	3.6	8.4	11
27	15	12	14	11	12	6.5	7.0	6.1	4.5	8.0	3.8	7.1
28	26	13	14	12	13	4.9	22	9.3	13	10	3.7	5.4
29	53	12	14	11	---	4.6	22	7.3	8.4	10	3.7	4.8
30	24	12	12	10	---	15	8.3	7.0	5.2	6.9	3.6	4.1
31	22	---	11	e10	---	9.2	---	3.7	---	8.1	3.6	---
TOTAL	476.9	450	403	337	261.3	288.1	293.0	203.9	269.3	185.2	155.0	286.9
MEAN	15.4	15.0	13.0	10.9	9.33	9.29	9.77	6.58	8.98	5.97	5.00	9.56
MAX	90	36	14	14	13	28	25	19	25	12	11	131
MIN	4.6	12	11	10	4.2	4.4	4.9	3.1	2.9	3.0	3.5	3.5
AC-FT	946	893	799	668	518	571	581	404	534	367	307	569

WTR YR 2001 TOTAL 3609.6 MEAN 9.89 MAX 131 MIN 2.9 AC-FT 7160

e Estimated

08406500 PECOS RIVER NEAR MALAGA, NM

LOCATION.--Lat 32°12'30", long 104°01'20", in SW¼NW¼NE¼ sec.19, T.24 S., R.29 E., Eddy County, Hydrologic Unit 13060011, on right bank 3.1 mi southeast of Malaga, 4.3 mi downstream from Black River, and at mile 432.2.

DRAINAGE AREA.--19,190 mi^2, approximately (contributing area).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1920 to current year. Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS.--WSP 1632: 1925, 1932-37.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 2,895.64 ft above National Geodetic Vertical Datum of 1929. May 1, 1920 to Mar. 24, 1949, at datum 3 ft higher.

REMARKS.--Water-discharge records fair except for those estimated, which are poor. 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. Harroun canal bypasses gage on left bank and irrigates approximately 1,000 acres adjacent to and downstream from gage. This bypass is not gaged.

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 ft^3/s, at Carlsbad, 27 mi upstream. Flood in September 1919 reached a stage of 29.4 ft, present datum, discharge, 40,400 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	87	72	68	73	84	75	37	26	34	30	27
2	36	77	71	68	87	83	74	37	29	34	36	28
3	208	325	70	68	93	83	64	29	26	44	31	26
4	342	469	71	100	93	83	55	32	28	38	28	24
5	352	444	75	80	92	76	57	33	42	40	29	22
6	350	414	153	58	91	72	55	25	48	31	30	23
7	353	449	92	51	88	73	71	30	37	27	29	22
8	361	421	75	60	100	e93	66	34	42	25	27	21
9	369	177	71	61	105	e90	57	37	39	28	28	19
10	376	111	71	61	96	e80	66	46	64	27	28	20
11	374	96	71	63	95	e79	78	37	65	36	27	21
12	289	90	70	64	94	e74	71	41	53	37	27	28
13	121	84	69	63	92	73	46	43	48	35	27	31
14	81	81	69	63	90	67	63	44	46	32	26	29
15	76	80	71	62	73	68	76	34	39	30	26	29
16	66	80	71	61	66	65	55	28	35	30	29	32
17	126	79	69	63	72	65	71	31	32	33	32	38
18	212	80	69	79	73	73	87	34	32	37	29	31
19	116	82	68	83	75	78	48	33	32	36	32	28
20	92	82	68	81	76	74	37	32	35	35	30	32
21	74	78	67	82	80	68	33	32	32	30	28	33
22	74	76	69	81	78	66	33	32	31	35	28	164
23	94	76	68	81	75	66	48	46	31	36	27	72
24	116	77	69	81	71	66	38	43	35	36	27	42
25	99	76	70	80	74	65	31	37	40	35	31	38
26	80	74	72	85	69	66	29	37	39	33	49	42
27	76	73	72	92	74	69	30	38	36	34	33	36
28	85	73	72	96	81	70	41	39	35	34	29	32
29	129	73	69	88	---	69	60	36	35	36	28	27
30	103	72	68	83	---	79	45	35	32	35	26	24
31	89	---	67	75	---	81	---	32	---	31	25	---
TOTAL	5352	4556	2279	2281	2326	2298	1660	1104	1144	1044	912	1041
MEAN	173	152	73.5	73.6	83.1	74.1	55.3	35.6	38.1	33.7	29.4	34.7
MAX	376	469	153	100	105	93	87	46	65	44	49	164
MIN	33	72	67	51	66	65	29	25	26	25	25	19
AC-FT	10620	9040	4520	4520	4610	4560	3290	2190	2270	2070	1810	2060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2001, BY WATER YEAR (WY)

MEAN	264	152	118	107	92.5	65.2	56.2	206	165	108	145	263
MAX	5302	1338	822	738	557	290	697	6887	2984	1171	4200	6975
(WY)	1942	1942	1942	1942	1942	1987	1942	1941	1941	1941	1966	1941
MIN	8.49	7.82	7.87	10.5	11.9	9.41	8.80	7.85	8.93	6.70	6.20	8.27
(WY)	1978	1978	1978	1978	1965	1978	1965	1978	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1938 - 2001	
ANNUAL TOTAL	29488		25997			
ANNUAL MEAN	80.6		71.2		[a]145	
HIGHEST ANNUAL MEAN					1652	1941
LOWEST ANNUAL MEAN					16.8	1977
HIGHEST DAILY MEAN	469	Nov 4	469	Nov 4	68000	Aug 23 1966
LOWEST DAILY MEAN	33	Jun 17	19	Sep 9	3.7	May 20 1991
ANNUAL SEVEN-DAY MINIMUM	36	May 14	21	Sep 5	4.5	May 18 1991
MAXIMUM PEAK FLOW			574	Nov 8	[b]120000	Aug 23 1966
MAXIMUM PEAK STAGE			6.16	Nov 8	[c]42.10	Aug 23 1966
INSTANTANEOUS LOW FLOW			19	Sep 8	3.7	Oct 20 1976
ANNUAL RUNOFF (AC-FT)	58490		51570		105300	
10 PERCENT EXCEEDS	116		94		195	
50 PERCENT EXCEEDS	52		64		54	
90 PERCENT EXCEEDS	40		28		15	

e Estimated
a Average discharge 16 years (water years 1921-36), 274 ft^3/s, 198,500 acre-ft/yr, prior to completion of Lake Sumner.
b From rating curve extended above 36,000 ft^3/s, on basis of slope-area measurement of peak flow.
c From floodmarks.

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 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
OCT													
16...	1030	20.0	20.0	693	67	4270	7.3	90	7.5	1400	366	109	438
DEC													
07...	1045	10.0	12.5	692	91	6540	10.8	108	7.7	2100	510	189	669
FEB													
26...	1130	16.0	19.0	691	68	6280	9.8	112	7.5	2000	481	183	641
APR													
19...	1215	24.5	28.0	685	48	6270	6.4	87	7.3	1900	475	170	643
JUN													
12...	1130	27.0	31.0	683	52	7430	9.0	130	7.3	2400	573	225	912
AUG													
27...	0900	25.5	27.0	693	34	7270	8.8	121	7.1	2300	582	217	843

DATE	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
OCT						
16...	5	8.29	732	1170	.8	14.3
DEC						
07...	6	6.55	1110	1520	.8	10.1
FEB						
26...	6	7.99	1140	1540	.8	12.3
APR						
19...	6	9.19	1210	1580	.8	10.7
JUN						
12...	8	10.3	1510	1940	.8	15.6
AUG						
27...	8	11.4	1480	1910	.9	16.4

08407000 PECOS RIVER AT PIERCE CANYON CROSSING, NEAR MALAGA, NM

LOCATION.--Lat 32°11'19", long 103°58'43", in $SW^1/_4SW^1/_4NW^1/_4$ sec.27, T.24 S., R.29 E., Eddy County, Hydrologic Unit 13060011, on right bank 550 ft upstream from Pierce Canyon Crossing, 6.0 mi southeast of Malaga, and at mile 425.7.

DRAINAGE AREA.--19,260 mi^2, approximately (contributing area).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1938 to September 1941, August 1951 to current year.

REVISED RECORDS.--WSP 898: 1938(M). WSP 1712: 1959.

GAGE.--Water-stage recorder. Elevation of gage is 2,889.18 ft above National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). July 1938 to Sept. 1941, at datum 1.19 ft higher.

REMARKS.--Water-discharge records good except those above 450 ft^3/s, which are poor. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	75	67	67	74	82	68	38	24	26	30	25
2	30	69	67	67	81	82	69	36	17	25	31	27
3	102	219	67	68	90	81	62	31	19	34	33	26
4	325	537	67	82	90	80	55	26	15	33	28	23
5	346	659	67	87	90	78	53	34	25	36	27	19
6	348	439	122	66	89	76	51	26	39	30	29	15
7	350	509	100	56	89	77	56	25	38	21	30	15
8	357	726	74	57	91	96	65	31	30	16	28	12
9	365	224	68	64	98	91	50	33	35	17	26	9.4
10	374	110	69	62	94	82	58	43	41	15	28	7.8
11	374	86	68	65	91	74	63	41	56	22	28	9.2
12	334	78	67	67	91	73	69	38	48	31	27	12
13	157	74	65	67	91	70	50	40	44	32	26	24
14	88	71	65	67	90	66	42	43	37	29	25	27
15	77	70	66	67	81	64	69	38	36	26	26	24
16	70	69	66	65	68	64	55	27	28	24	26	25
17	83	68	67	67	72	62	56	24	26	25	35	32
18	216	68	65	74	74	66	81	30	24	32	30	33
19	125	70	64	82	76	72	56	30	22	36	32	23
20	96	71	65	82	77	71	38	27	24	43	33	23
21	74	69	63	83	79	65	31	26	25	35	31	28
22	70	67	65	83	80	63	27	27	22	29	29	107
23	69	66	65	83	78	62	37	31	22	34	29	97
24	109	66	65	83	74	62	41	45	22	34	28	51
25	86	66	68	82	74	61	31	36	33	35	29	37
26	76	65	70	83	74	61	25	32	35	32	51	39
27	64	64	70	90	74	63	25	32	32	31	42	38
28	72	64	70	93	80	64	29	33	27	33	32	32
29	97	65	68	90	---	64	51	33	31	37	29	26
30	96	65	67	86	---	66	51	30	26	36	27	20
31	80	---	67	81	---	74	---	29	---	33	25	---
TOTAL	5140	4949	2164	2316	2310	2212	1514	1015	903	922	930	886.4
MEAN	166	165	69.8	74.7	82.5	71.4	50.5	32.7	30.1	29.7	30.0	29.5
MAX	374	726	122	93	98	96	81	45	56	43	51	107
MIN	30	64	63	56	68	61	25	24	15	15	25	7.8
AC-FT	10200	9820	4290	4590	4580	4390	3000	2010	1790	1830	1840	1760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2001, BY WATER YEAR (WY)

MEAN	176	108	89.6	78.1	70.7	52.3	39.5	210	163	104	153	251
MAX	2718	596	519	359	358	299	149	7108	3040	1184	4182	7129
(WY)	1955	1998	1992	1987	1987	1987	1987	1941	1941	1941	1966	1941
MIN	8.70	6.77	9.39	10.6	12.6	10.1	7.46	6.35	7.78	4.43	6.18	5.73
(WY)	1978	1978	1978	1965	1965	1978	1978	1978	1971	1966	1964	1977

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1938 - 2001	
ANNUAL TOTAL	29258		25261.4			
ANNUAL MEAN	79.9		69.2		125	
HIGHEST ANNUAL MEAN					1694	1941
LOWEST ANNUAL MEAN					18.7	1977
HIGHEST DAILY MEAN	769	Jul 9	726	Nov 8	65000	Aug 23 1966
LOWEST DAILY MEAN	25	May 17	7.8	Sep 10	2.1	Jun 22 1978
ANNUAL SEVEN-DAY MINIMUM	29	May 12	11	Sep 6	2.6	Jul 21 1966
MAXIMUM PEAK FLOW			1030	Nov 8	65000	Aug 23 1966
MAXIMUM PEAK STAGE			4.02	Nov 8	[a]31.60	Aug 23 1966
INSTANTANEOUS LOW FLOW					.54	May 30 1965
ANNUAL RUNOFF (AC-FT)	58030		50110		90730	
10 PERCENT EXCEEDS	109		91		137	
50 PERCENT EXCEEDS	51		62		48	
90 PERCENT EXCEEDS	36		25		13	

a From floodmarks.

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 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
OCT													
16...	1130	23.0	22.0	693	72	5600	7.0	92	7.6	1300	328	105	733
DEC													
07...	1200	11.0	16.0	690	98	7550	11.2	115	7.7	2000	509	187	830
FEB													
26...	1300	18.0	22.5	690	73	8270	9.0	108	7.5	2000	473	190	1020
APR													
19...	1400	23.0	26.0	688	52	7920	4.9	65	7.4	2100	507	204	1040
JUN													
12...	1330	28.0	35.0	683	46	9810	10.0	148	7.5	2300	550	221	1410
AUG													
27...	1015	25.5	27.0	693	41	11200	8.4	118	7.2	2600	614	264	1650

DATE	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
OCT						
16...	9	24.1	1180	1080	.7	12.8
DEC						
07...	8	15.7	1410	1570	.8	10.9
FEB						
26...	10	24.6	1700	1550	.8	11.1
APR						
19...	10	24.9	1780	1690	.8	12.0
JUN						
12...	13	34.4	2310	2000	.9	15.7
AUG						
27...	14	48.3	2790	2130	.8	14.0

08407500 PECOS RIVER AT RED BLUFF, NM

LOCATION.--Lat 32°04'30", long 104°02'21", in SW$^1/_4$NW$^1/_4$NE$^1/_4$ 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 mi^2, approximately (contributing area).

PERIOD OF RECORD.--October 1937 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 2,850.05 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for those estimated, which are fair to poor. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	82	81	71	81	81	72	44	32	28	30	26
2	33	80	80	71	80	83	69	38	29	28	29	26
3	36	103	80	71	89	81	67	37	28	28	31	27
4	229	355	80	73	91	82	60	32	29	35	30	26
5	303	470	80	95	91	81	55	31	28	31	28	24
6	316	442	97	83	90	77	54	34	34	34	28	22
7	317	447	127	71	90	76	53	30	41	28	29	20
8	322	481	88	64	90	95	66	30	37	25	29	20
9	333	349	77	72	98	98	60	33	39	24	28	19
10	344	155	75	73	98	96	56	35	36	25	27	18
11	350	108	74	73	93	79	62	41	51	24	28	18
12	345	96	73	75	92	75	73	37	54	29	28	19
13	228	91	73	75	92	72	64	37	45	32	27	21
14	114	88	73	75	92	70	48	38	42	32	27	26
15	84	87	73	75	89	65	61	40	39	30	27	27
16	77	86	74	74	78	65	67	34	36	29	28	29
17	98	86	73	74	75	63	77	29	32	28	29	28
18	234	85	71	76	79	e72	73	29	29	30	33	30
19	170	85	71	85	80	e76	73	32	29	34	30	28
20	114	87	70	86	80	e73	50	31	29	36	32	24
21	87	86	70	86	81	e68	44	30	30	54	31	29
22	75	84	70	86	82	e66	42	30	29	31	31	86
23	109	83	71	86	81	e66	40	31	28	31	30	132
24	153	83	71	85	78	e65	43	38	29	33	29	60
25	102	83	72	85	75	e64	43	39	31	33	29	39
26	90	82	74	85	77	e63	42	35	36	32	45	35
27	74	81	74	89	74	62	39	34	34	30	46	39
28	73	81	74	94	79	65	37	35	30	31	35	38
29	87	81	73	93	---	64	40	35	30	32	30	36
30	115	81	72	88	---	64	54	35	31	35	29	35
31	93	---	72	85	---	73	---	33	---	33	27	---
TOTAL	5141	4688	2383	2474	2375	2280	1684	1067	1027	965	940	1007
MEAN	166	156	76.9	79.8	84.8	73.5	56.1	34.4	34.2	31.1	30.3	33.6
MAX	350	481	127	95	98	98	77	44	54	54	46	132
MIN	33	80	70	64	74	62	37	29	28	24	27	18
AC-FT	10200	9300	4730	4910	4710	4520	3340	2120	2040	1910	1860	2000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2001, BY WATER YEAR (WY)

MEAN	269	157	123	111	96.0	69.9	58.3	209	177	116	151	270
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1938 - 2001	
ANNUAL TOTAL	29351		26031			
ANNUAL MEAN	80.2		71.3		151	
HIGHEST ANNUAL MEAN					1655	1941
LOWEST ANNUAL MEAN					19.2	1977
HIGHEST DAILY MEAN	481	Nov 8	481	Nov 8	50700	Aug 24 1966
LOWEST DAILY MEAN	32	Sep 11	18	Sep 10	.22	Aug 1 1966
ANNUAL SEVEN-DAY MINIMUM	35	May 13	19	Sep 7	.33	Jul 26 1966
MAXIMUM PEAK FLOW			511	Nov 8	[a]111000	Aug 23 1966
MAXIMUM PEAK STAGE			6.15	Nov 8	33.32	Aug 23 1966
INSTANTANEOUS LOW FLOW			17	Sep 11	.19	Aug 1 1966
ANNUAL RUNOFF (AC-FT)	58220		51630		109200	
10 PERCENT EXCEEDS	115		95		207	
50 PERCENT EXCEEDS	54		65		57	
90 PERCENT EXCEEDS	38		28		15	

e Estimated
a From rating curve extended above 32,000 ft^3/s, on basis of slope-area measurement of peak flow.

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 mi^2.

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 fair. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.19	.78	1.2	1.0	1.6	1.1	.00	.00	.00	.00	.18
2	.00	.18	.78	1.2	.99	1.6	1.0	.00	.00	.00	.00	.10
3	.00	.17	.78	1.2	1.1	1.5	.84	.00	.00	.00	.00	.02
4	.00	.19	.78	1.1	1.1	1.4	.77	.00	.00	.00	.00	.00
5	.00	.25	.80	1.1	1.1	1.4	.76	.00	.00	.00	.00	.00
6	.00	.25	.80	1.2	1.2	1.4	.74	.00	.00	.00	.00	.00
7	.00	4.6	.82	1.2	1.2	2.4	.68	.00	.00	.00	.00	.00
8	.00	1.2	.82	1.2	1.2	3.5	.61	.00	.00	.00	.00	.00
9	.00	.49	.82	1.1	1.1	1.6	.51	.00	.00	.00	.00	.00
10	.00	.42	.82	1.2	1.0	1.3	.52	.00	.00	.00	.00	.00
11	.00	.36	.81	1.2	1.1	1.3	.51	.00	.00	.00	.00	.00
12	.00	.34	.78	1.2	1.2	1.3	.48	.00	.00	.00	.00	.00
13	.00	.33	.80	1.2	1.2	1.2	.47	.00	.00	.00	.00	.00
14	.00	.32	.78	1.2	1.3	1.3	.47	.00	.00	.00	.00	.00
15	.00	.37	.80	1.1	1.3	1.2	.45	.00	.00	.00	.00	.00
16	10	.37	.78	1.1	1.3	1.1	.42	.00	.00	.00	.00	.00
17	20	.42	.78	1.1	1.3	1.2	.41	.00	.00	.00	.00	.00
18	12	.43	.75	1.2	1.3	1.3	.61	.00	.00	.00	.00	.00
19	.63	.48	.73	1.2	1.3	1.3	.77	.00	.00	.00	.03	.00
20	.43	.50	.77	1.1	1.3	1.2	.70	.00	.00	.00	.96	.00
21	.34	.53	.76	1.1	1.3	1.2	.56	.00	.00	.00	.22	.00
22	.40	.55	.76	1.1	1.3	1.1	.42	.00	.00	.00	.04	.00
23	3.0	.59	.90	1.2	1.4	1.1	.33	.00	.00	.00	.00	.89
24	.97	.57	1.1	1.1	1.3	1.1	.28	.00	.00	.00	.00	.23
25	.32	.58	1.2	1.2	1.3	1.1	.24	.00	.00	.00	.00	.17
26	.20	.59	1.3	1.1	1.3	1.1	.22	.00	.00	.00	23	.10
27	.18	.63	1.2	1.2	1.5	1.2	.19	.00	.00	.00	5.5	.02
28	.18	.67	1.2	1.4	1.6	1.2	.06	.00	.00	.00	.91	.00
29	.17	.68	1.2	1.3	---	1.3	.00	.00	.00	.00	.31	.00
30	.16	.74	1.2	1.3	---	1.2	.00	.00	.00	.00	1.5	.00
31	.20	---	1.2	1.1	---	1.1	---	.00	---	.00	.55	---
TOTAL	49.18	17.99	27.80	36.4	34.59	42.8	15.12	0.00	0.00	0.00	33.02	1.71
MEAN	1.59	.60	.90	1.17	1.24	1.38	.50	.000	.000	.000	1.07	.057
MAX	20	4.6	1.3	1.4	1.6	3.5	1.1	.00	.00	.00	23	.89
MIN	.00	.17	.73	1.1	.99	1.1	.00	.00	.00	.00	.00	.00
AC-FT	98	36	55	72	69	85	30	.00	.00	.00	65	3.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2001, BY WATER YEAR (WY)

MEAN	27.2	3.32	3.12	3.20	3.00	2.68	5.40	8.92	18.7	13.3	21.0	20.7
MAX	748	18.9	7.99	8.57	8.77	9.44	135	233	281	166	326	303
(WY)	1956	1979	1987	1987	1987	1987	1954	1941	1938	1952	1966	1978
MIN	.000	.030	.17	.41	.12	.42	.23	.000	.000	.000	.000	.000
(WY)	1952	1965	1966	1965	1966	1993	1968	2001	1950	1947	1983	1953

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1938 - 2001	
ANNUAL TOTAL	495.15		258.61			
ANNUAL MEAN	1.35		.71		10.9	
HIGHEST ANNUAL MEAN					66.1	1956
LOWEST ANNUAL MEAN					.71	2001
HIGHEST DAILY MEAN	150	Aug 31	23	Aug 26	22000	Oct 2 1955
LOWEST DAILY MEAN	.00	May 3	.00	Oct 1	[c].00	Jun 12 1938
ANNUAL SEVEN-DAY MINIMUM	.00	May 3	.00	Oct 1	.00	Jul 29 1946
MAXIMUM PEAK FLOW			160	Oct 17	[a]81400	Oct 2 1955
MAXIMUM PEAK STAGE			4.17	Oct 17	[b]27.00	Oct 2 1955
INSTANTANEOUS LOW FLOW			.00	Oct 1	.00	Jun 11 1938
ANNUAL RUNOFF (AC-FT)	982		513		7920	
10 PERCENT EXCEEDS	1.9		1.3		6.9	
50 PERCENT EXCEEDS	.22		.33		2.1	
90 PERCENT EXCEEDS	.00		.00		.00	

a From rating curve extended above 6,500 ft^3/s, on basis of slope-area measurements at gage heights, 12.84 ft 17.55 ft and 27.0 ft.
b From floodmarks.
c No flow most days

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 mi^2, approximately (contributing area).

PERIOD OF RECORD.--February 1937 to current year. Monthly contents only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder with satellite telemetry. 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 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, 75,020 acre-ft, Apr. 3, gage height, 2,812.22 ft; minimum observed, 32,370 acre-ft, Sept. 21, gage height, 2,297.78 ft.

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

2,797.0	30,940	2,801.0	38,980	2,805.0	49,440	2,809.0	62,530
2,798.0	32,770	2,802.0	41,350	2,806.0	52,460	2,810.0	66,220
2,799.0	34,720	2,803.0	43,880	2,807.0	55,650	2,811.0	70,070
2,800.0	36,780	2,804.0	46,580	2,808.0	59,000	2,812.0	74,090

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47090	54160	64120	65150	68490	71920	74720	61260	50530	43140	35030	32770
2	47120	54380	64260	65330	68680	72160	74930	59790	50100	42890	34460	32870
3	47060	54510	64300	65440	68800	72280	75020	59260	49920	42710	34270	32910
4	46920	54730	64300	65520	68920	72410	74890	58740	49740	42590	34130	32890
5	47120	55400	64340	65630	69030	72530	74760	58340	49440	42440	34020	32870
6	47440	56260	64340	65780	69150	72650	74640	58000	49150	42280	33960	32810
7	47810	57060	64370	65890	69260	72770	74510	57670	48860	42160	33880	32790
8	47150	57070	64370	65960	69380	72930	74390	57330	48580	41980	33840	32660
9	48550	58810	64410	66070	69500	73090	74260	57000	48290	41830	33760	32590
10	49010	59400	64410	66180	69610	73250	74140	56660	48010	41700	33690	32500
11	49590	59650	64450	66300	69730	73410	73970	56330	47720	41550	33610	32530
12	50220	59820	64450	66330	69840	73570	73810	55990	47440	41370	33530	32550
13	50860	59890	64480	66450	69960	73690	73650	55660	47180	41230	33370	32530
14	51220	60000	64480	66530	70110	73770	73490	55340	46950	41060	33270	32550
15	51500	60100	64520	66600	70230	73850	73290	55020	46660	40680	33200	32550
16	51650	60280	64520	66640	70360	73930	73090	54400	46390	40330	33180	32510
17	51770	60320	64560	66800	70480	73970	72410	54380	46140	40020	33200	32480
18	52070	60630	64600	66870	70640	74010	71520	54060	45880	39640	33200	32480
19	52460	62940	64630	66840	70800	74050	70640	53740	45580	39360	33180	32460
20	52750	63050	64670	66990	70960	74090	69760	53360	45280	39240	33120	32400
21	52910	63230	64710	67110	71080	74140	68920	52970	44900	38670	33120	32370
22	53100	63270	64740	67180	71200	74180	68070	52590	44640	38340	33220	32420
23	53170	63420	64780	67340	71320	74220	67220	52220	44420	37990	33220	32530
24	53550	63600	64820	67450	71440	74260	66300	51920	44230	37550	33100	32680
25	53800	63670	64850	67530	71560	74300	65480	51620	43990	37130	32870	32730
26	53930	63710	64890	67680	71680	74350	64600	51310	43780	36780	32700	32720
27	54000	63820	64930	67880	71800	74430	63710	51070	43630	36370	32550	32700
28	53960	63970	64960	68070	71920	74470	62820	50950	43420	36000	32570	32680
29	54030	64040	65000	68260	---	74560	62040	50930	43300	35620	32610	32660
30	54030	64120	65040	68420	---	74640	61260	50710	43140	35300	32640	32620
31	54160	---	65150	68490	---	74720	---	50530	---	35030	32790	---
MAX	54160	64120	65150	68490	71920	74720	75020	61260	50530	43140	35030	32910
MIN	46920	54160	64120	65150	68490	71920	61260	50530	43140	35030	32550	32370
(+)	2806.53	2809.43	2809.71	2810.59	2811.46	2812.15	2808.64	2805.36	2802.71	2799.15	2798.01	2797.92
(++)	+7070	+9960	+1030	+3340	+3430	+2800	-13460	-10730	-7390	-8110	-2240	-170

CAL YR 2000 MAX 90100 MIN 46920 (++) -21,500
WTR YR 2001 MAX 75020 MIN 32370 (++) -14,470

(+) Elevation in feet, at end of month.
(++) Change in contents, in acre-feet.

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 form Salt Creek (Screw Bean Arroyo), 5.9 mi northeast of Orla, and 8.5 mi downstream from Red Bluff Reservoir.

DRAINAGE AREA.--21,210 mi^2 approximately (contributing area).

WATER-DISCHARGE RECORDS

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 12.81 ft lower.

REMARKS.--Water-discharge records fair except for those estimated, which are poor. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	4.9	2.6	1.5	2.4	.86	.00	381	e80	e77	e155	9.1
2	43	4.8	2.6	1.5	2.5	e1.0	.00	237	e80	e77	e118	8.3
3	67	4.8	2.7	1.4	2.5	1.4	46	236	e80	e77	e108	7.0
4	100	4.8	2.6	1.4	2.5	.89	58	215	e80	e77	e75	7.0
5	98	4.8	2.5	1.3	2.6	.70	57	137	e88	e77	e73	26
6	96	4.5	2.3	1.5	2.6	.44	58	137	e162	e77	e50	28
7	95	4.6	2.3	1.5	2.6	.43	59	139	e162	e77	36	28
8	94	5.1	2.3	1.5	2.6	.88	62	143	e162	e77	39	28
9	79	4.3	2.2	1.6	2.4	1.1	66	144	e150	e77	58	28
10	29	4.3	2.1	1.9	2.4	.76	71	143	e150	e77	57	26
11	25	4.2	2.1	2.0	2.5	.22	72	144	e150	e77	57	9.9
12	15	4.1	2.1	1.9	2.5	.00	77	146	e150	e77	57	8.8
13	15	4.0	2.3	2.2	2.6	.00	125	147	e136	e77	57	7.6
14	14	3.9	2.2	2.1	3.0	.38	126	218	e132	e87	54	7.3
15	16	3.9	2.2	2.0	2.7	.13	126	201	e132	e170	34	22
16	14	3.9	2.0	2.1	2.3	.27	182	183	e132	e170	28	29
17	17	3.5	2.0	2.3	2.3	.00	445	183	e132	e170	68	29
18	16	3.4	1.7	2.1	2.3	.00	462	191	e132	e170	30	29
19	14	3.3	1.5	2.1	2.4	.00	463	262	e135	e199	28	30
20	14	3.1	1.5	2.0	2.4	.00	463	263	e168	e199	27	30
21	16	3.0	1.5	2.0	e2.2	15	461	263	e167	e199	18	29
22	15	3.0	1.6	2.1	e2.0	3.8	458	265	e135	e199	18	29
23	14	3.0	1.6	2.2	e1.9	1.8	455	236	e104	e199	23	34
24	15	2.9	1.6	2.3	e1.8	.82	453	162	e104	e200	e89	33
25	15	2.8	1.9	2.4	1.7	.70	451	147	e104	e200	e106	28
26	13	2.7	2.0	2.5	1.7	.02	449	122	e104	e200	e106	27
27	15	2.7	1.6	2.5	1.7	1.0	446	120	e104	e200	e106	28
28	35	2.6	1.5	2.7	1.5	.81	444	84	e104	e200	e14	26
29	33	2.6	1.4	2.7	---	.08	443	e50	e83	e200	11	25
30	26	2.6	1.4	2.4	---	.00	442	e50	e77	e200	9.7	25
31	5.2	---	1.4	2.4	---	.00	---	e58	---	e150	27	---
TOTAL	1098.2	112.1	61.3	62.1	64.6	33.49	7520.00	5407	3679	4313	1736.7	682.0
MEAN	35.4	3.74	1.98	2.00	2.31	1.08	251	174	123	139	56.0	22.7
MAX	100	5.1	2.7	2.7	3.0	15	463	381	168	200	155	34
MIN	5.2	2.6	1.4	1.3	1.5	.00	.00	50	77	77	9.7	7.0
AC-FT	2180	222	122	123	128	66	14920	10720	7300	8550	3440	1350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2001, BY WATER YEAR (WY)

MEAN	149	66.8	40.3	37.4	42.6	82.1	199	197	221	235	191	223
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1938 - 2001	
ANNUAL TOTAL	28821.8		24769.49			
ANNUAL MEAN	78.7		67.9		141	
HIGHEST ANNUAL MEAN					1284	1941
LOWEST ANNUAL MEAN					13.1	1953
HIGHEST DAILY MEAN	372	Apr 14	463	Apr 19	23700	Sep 28 1941
LOWEST DAILY MEAN	1.4	Dec 29	.00	Mar 12	.00	Sep 9 1946
ANNUAL SEVEN-DAY MINIMUM	1.6	Dec 18	.11	Mar 12	.00	Jul 7 1965
MAXIMUM PEAK FLOW					23700	Sep 29 1941
MAXIMUM PEAK STAGE					20.74	Sep 29 1941
INSTANTANEOUS LOW FLOW					.00	Sep 9 1946
ANNUAL RUNOFF (AC-FT)	57170		49130		101900	
10 PERCENT EXCEEDS	205		199		356	
50 PERCENT EXCEEDS	17		18		33	
90 PERCENT EXCEEDS	2.8		1.5		5.1	

e Estimated

08412500 PECOS RIVER NEAR ORLA, TX--Continued

WATER-QUALITY RECORDS

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, TX." Water-quality station operation transferred from the Texas District to the New Mexico District beginning with the 1993 water year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 29,400 microsiemens, May 16, 1978; minimum daily, 1,590 microsiemens, June 22, 1999.
WATER TEMPERATURE: Maximum daily, 32.5 °C, July 20, 1998; minimum daily, 0.0 °C, many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 16,900 microsiemens, Mar. 15; minimum daily, 8,190 microsiemens, Sept. 5.
WATER TEMPERATURE: Maximum daily, 29.5 °C, Aug. 14; minimum daily, 2.0 °C, Dec. 25, 26, 28, and Jan. 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)
OCT													
12...	0930	16.5	17.0	696	33	10100	6.1	71	7.8	.0	87	2500	616
DEC													
07...	1340	6.0	20.0	693	2.4	13800	13.4	125	7.6	.0	151	2800	721
FEB													
26...	1430	18.5	24.5	694	1.8	16400	8.5	106	7.4	.0	134	3100	772
APR													
20...	0800	15.0	15.0	690	461	9190	8.6	97	7.9	.0	88	2200	542
JUN													
11...	1545	27.0	44.0	688	150	9290	7.9	114	7.3	.0	66	2200	548
AUG													
28...	1015	28.0	30.0	695	E14	11500	5.3	77	7.1	.0	54	2700	664

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
OCT										
12...	234	1400	12	33.4	2400	2230	.8	12.8	71	6970
DEC										
07...	254	1890	15	25.7	3060	2280	1.0	10.7	124	8320
FEB										
26...	283	2470	19	27.4	4080	2570	1.1	7.0	110	10300
APR										
20...	201	1120	10	27.9	1910	1890	.7	4.2	72	5750
JUN										
11...	213	1320	12	32.4	2190	2020	.8	9.6	54	6360
AUG										
28...	260	1660	14	42.5	2900	2350	.8	13.1	44	7910

Remark codes used in this report:
E -- Estimated value

08412500 PECOS RIVER NEAR ORLA, TX--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.5	16.0	7.5	7.0	10.0	8.5	10.0	17.0	23.0	23.5	25.0	---
2	20.5	12.0	6.0	5.0	3.5	10.0	---	17.0	21.5	26.0	---	27.5
3	19.0	13.5	6.0	4.5	---	10.0	---	17.5	23.0	22.0	25.0	---
4	19.0	13.5	6.5	2.5	7.0	11.5	13.5	18.0	23.0	---	25.0	25.0
5	20.0	15.0	6.5	4.5	6.0	10.5	14.0	18.0	22.5	24.5	25.0	24.5
6	19.0	14.5	6.0	5.0	7.0	12.0	14.5	17.0	21.5	24.0	---	25.0
7	15.0	12.0	5.0	---	8.0	17.0	---	18.0	23.0	22.5	26.5	27.5
8	16.5	13.0	6.5	5.0	11.0	13.5	14.5	19.0	23.0	24.0	24.5	23.0
9	15.0	9.0	6.0	8.0	12.0	12.0	14.5	18.5	23.0	27.0	26.0	24.0
10	12.0	9.0	8.0	---	4.5	12.0	16.0	24.0	22.5	24.5	26.0	---
11	14.0	11.0	9.0	7.0	6.5	13.0	11.0	19.0	---	---	25.5	27.0
12	16.0	---	5.0	6.5	7.5	13.0	12.0	19.0	23.0	24.0	26.0	---
13	18.0	10.0	3.5	5.5	9.5	13.0	---	19.5	22.5	25.0	26.0	24.5
14	19.0	9.0	9.0	10.0	10.5	14.0	14.5	19.5	21.0	25.0	29.5	26.0
15	18.0	8.5	5.5	6.5	---	13.0	---	20.5	21.0	24.5	26.0	26.5
16	19.0	7.0	6.5	6.0	9.0	11.0	16.5	19.5	21.5	24.5	25.5	27.0
17	18.5	8.0	4.5	6.0	---	12.5	14.0	20.0	22.5	---	24.0	26.0
18	17.5	7.0	5.0	3.5	9.0	---	14.5	21.5	22.0	24.5	26.5	25.0
19	---	9.0	3.0	2.5	8.5	12.5	14.5	21.0	22.0	28.5	25.0	25.0
20	17.0	8.0	5.0	2.0	9.0	11.5	14.5	21.0	22.5	26.0	26.0	24.5
21	18.5	8.0	4.0	3.5	9.5	13.0	15.0	20.0	22.5	25.5	26.0	---
22	---	8.0	---	3.0	11.5	13.0	17.0	---	22.5	25.5	26.0	24.0
23	19.0	---	2.5	5.5	---	16.0	16.0	19.0	22.5	25.0	27.0	24.0
24	18.0	7.5	4.5	9.0	12.0	15.5	15.0	19.5	22.5	26.0	---	21.0
25	19.0	7.0	2.0	7.0	11.0	16.0	15.5	20.0	22.5	26.5	25.0	21.0
26	21.5	---	2.0	5.0	11.5	12.0	15.5	21.0	22.5	24.5	24.5	---
27	19.0	7.0	5.0	---	12.0	10.0	16.5	20.5	28.0	25.0	29.0	24.5
28	18.0	7.5	2.0	5.0	10.0	11.0	16.0	25.5	23.0	26.5	25.0	21.0
29	---	7.5	4.0	4.5	---	10.5	16.5	23.0	---	27.0	25.0	22.0
30	18.5	7.0	7.0	5.5	---	14.5	17.0	21.0	23.0	26.5	25.0	---
31	18.5	---	3.5	4.0	---	---	---	23.0	---	25.0	25.0	---
MEAN	17.9	9.8	5.2	5.3	9.0	12.5	14.7	19.9	22.6	25.1	25.7	24.6
MAX	21.5	16.0	9.0	10.0	12.0	17.0	17.0	25.5	28.0	28.5	29.5	27.5
MIN	12.0	7.0	2.0	2.0	3.5	8.5	10.0	17.0	21.0	22.0	24.0	21.0

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10000	9710	12400	12600	14000	12600	12600	8660	9310	9980	10900	---
2	10000	10300	12500	12600	14000	12800	---	8690	9320	10000	---	10200
3	9830	10600	12400	12600	---	14500	12800	8720	9340	10000	11000	---
4	9820	10400	12300	12800	14400	14800	8800	8660	9380	---	11100	8810
5	9810	10400	12300	12900	14800	14900	8700	8740	9410	10200	11100	8190
6	9870	10500	12100	13000	14900	16000	8700	8800	9420	10200	---	11800
7	9860	10200	12100	13300	15000	15000	---	8780	9310	10200	11300	12200
8	10000	9490	12200	13500	15300	14600	8770	8810	9390	10200	11200	12200
9	9960	10200	12200	---	15400	14900	8770	8840	9410	10300	11200	12200
10	9960	14100	12200	13700	15300	15300	8750	8850	9460	10200	11200	---
11	10000	13400	12200	13800	15300	15600	8770	8860	---	---	11300	12600
12	10000	---	12200	13700	15400	15900	8820	8820	9460	10300	11300	---
13	10100	11800	12200	13600	15400	16100	---	8840	9540	10400	11400	12300
14	10100	11900	12200	13600	15100	16700	8800	8870	9730	10400	11400	12500
15	9800	11900	12200	13600	---	16900	---	8850	9670	10400	11400	12500
16	9940	11800	12300	13700	15000	16300	8770	8950	9680	10400	11400	12400
17	10100	11600	12200	13600	---	16400	8770	8920	9660	---	11700	12400
18	9020	11600	12400	13700	14700	---	8730	8910	9760	10500	12100	12400
19	---	11600	12400	14300	14600	16600	8740	8900	9780	10500	11800	12400
20	10000	11700	12400	14100	14600	16400	8770	8950	9810	10400	11700	12500
21	10000	11800	12400	13900	15000	15900	8600	9020	9820	10500	11700	---
22	---	12000	---	14100	15400	8890	8550	---	9870	10600	11700	12400
23	9850	---	12600	14100	---	9120	8650	9040	9840	10600	11800	13700
24	9930	12300	12500	14100	15400	9550	8610	9080	9870	10600	---	13100
25	11100	12300	---	14100	15600	10300	8620	9080	9930	10700	11600	12900
26	10000	---	12400	14100	15600	10700	---	9130	9910	10600	12900	---
27	10100	12600	12400	14100	15700	11000	8640	9280	10000	10700	11500	---
28	9880	12500	12400	14100	15500	11600	8670	9490	9960	10700	11500	12700
29	---	12500	12400	14100	---	12000	8700	9540	---	10800	11700	12600
30	9480	12500	12400	14200	---	12700	8660	9440	10000	10800	12200	12600
31	9460	---	12500	14100	---	---	---	9380	---	10900	10600	---
MEAN	9930	11500	12300	13700	15100	13900	9030	8960	9640	10400	11500	12100
MAX	11100	14100	12600	14300	15700	16900	12800	9540	10000	10900	12900	13700
MIN	9020	9490	12100	12600	14000	8890	8550	8660	9310	9980	10600	8190

08418010 PECOS RIVER NEAR BARSTOW, TX

LOCATION.--Lat 31°32'49", long 103°29'44", Ward County, Hydrologic Unit 13070001, on left bank 1,500 ft downstream from Ward County Diversion Dam, 8.8 mi northeast of Pecos, TX and 4.1 mi upstream from bridge on FM Road 3398.

PERIOD OF RECORD.--September 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,590 ft, above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 519 ft^3/s, Apr. 30, 2001, gage height, 4.09 ft, minimum discharge, .11 ft^3/s, Jan. 29, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 519 ft^3/s, Apr. 30, gage height, 4.09 ft, minimum discharge, .13 ft^3/s, Mar. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	27	2.8	1.5	.70	.27	.13	375	9.2	27	97	19
2	6.9	31	2.6	1.7	.65	.31	.13	417	7.8	23	84	28
3	6.1	21	2.7	1.2	.62	.30	.13	378	8.2	23	82	15
4	3.5	15	2.7	1.2	.72	.26	.13	193	6.1	23	64	11
5	1.2	13	2.5	1.3	.60	.25	.13	152	5.7	19	47	8.6
6	8.9	11	2.2	1.1	.67	.25	3.9	125	5.7	13	24	13
7	25	11	1.9	1.3	.66	.25	8.7	101	6.5	12	20	21
8	35	10	2.1	1.1	.61	.25	14	105	48	20	15	9.7
9	43	8.7	1.9	1.1	.55	.22	18	97	65	22	12	7.9
10	40	11	2.2	1.3	.44	.22	23	94	71	22	13	8.3
11	50	16	2.0	1.3	.45	.23	31	93	80	22	15	12
12	43	12	.57	1.0	.46	.22	28	128	78	22	16	16
13	34	8.6	1.5	1.3	.45	.20	31	96	80	16	16	14
14	29	8.3	1.9	1.0	.48	.21	37	90	83	21	19	9.5
15	23	9.5	1.8	.90	.50	.19	43	81	69	17	22	7.6
16	21	8.0	1.6	1.2	.43	.17	49	112	63	20	20	6.7
17	53	7.6	1.3	1.2	.36	.16	41	95	63	57	19	6.4
18	41	7.0	1.5	1.2	.34	.16	98	91	64	71	15	6.2
19	29	4.1	1.2	.90	.34	.17	250	92	63	71	13	5.4
20	55	4.2	1.5	.78	.32	.17	320	95	62	74	42	5.0
21	31	4.2	1.2	.90	.30	.17	357	103	66	86	12	5.2
22	21	5.4	1.1	.85	.32	.16	324	110	66	103	1.1	7.9
23	88	5.2	1.2	1.1	.31	.15	253	137	56	104	.99	9.4
24	70	4.8	1.5	1.0	.31	.14	259	144	44	105	2.8	9.6
25	25	3.0	1.7	1.0	.28	.13	270	137	30	104	4.6	30
26	17	2.6	1.4	.96	.28	.13	260	86	28	104	19	18
27	12	2.5	1.3	.93	.28	.13	292	59	23	119	99	11
28	12	2.6	1.3	1.1	.29	.13	313	37	21	113	187	9.0
29	4.5	2.8	1.0	1.1	---	.13	328	30	24	109	68	9.1
30	2.1	2.2	1.2	.91	---	.13	357	17	25	107	28	9.5
31	6.5	---	1.1	.85	---	.13	---	11	---	105	17	---
TOTAL	845.5	279.3	52.47	34.28	12.72	5.99	4009.25	3881	1321.2	1754	1094.49	349.0
MEAN	27.3	9.31	1.69	1.11	.45	.19	134	125	44.0	56.6	35.3	11.6
MAX	88	31	2.8	1.7	.72	.31	357	417	83	119	187	30
MIN	1.2	2.2	.57	.78	.28	.13	.13	11	5.7	12	.99	5.0
AC-FT	1680	554	104	68	25	12	7950	7700	2620	3480	2170	692

CAL YR 2000 TOTAL 16775.04 MEAN 45.8 MAX 265 MIN .48 AC-FT 33270
WTR YR 2001 TOTAL 13639.20 MEAN 37.4 MAX 417 MIN .13 AC-FT 27050

08477110 MIMBRES RIVER AT MIMBRES, NM

LOCATION.--Lat 32°51'17", long 107°58'23", in NW¼SW¼ sec.3, T.17 S., R.11 W., Grant County, Hydrologic Unit 13030202, on left bank 100 ft downstream from Willow Springs Canyon, 0.3 mi east of Mimbres, 1.1 mi downstream from Shepard Canyon, 2.5 mi downstream from Bear Canyon, and at mile 73.1.

DRAINAGE AREA.--216 mi^2 (revised).

PERIOD OF RECORD.--March 1978 to current year.

GAGE.--Water-stage recorder with satellite telemetry. 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 fair except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.99	5.1	6.8	17	7.2	6.5	2.9	11	7.9	5.6	9.7	15
2	.85	5.1	6.5	18	7.2	6.5	3.1	9.6	7.2	5.1	18	e13
3	.83	5.2	6.5	19	7.2	4.5	2.9	9.0	7.2	5.7	125	e13
4	.92	13	7.3	18	7.1	3.8	3.2	8.9	7.8	5.6	34	e12
5	1.0	28	7.3	19	7.2	5.7	3.6	8.3	6.0	5.7	16	e12
6	1.0	19	6.9	19	6.8	5.7	5.2	7.3	4.9	5.4	8.4	e12
7	1.1	21	7.2	19	6.7	6.0	5.3	8.1	4.8	5.1	6.3	e12
8	1.4	18	6.8	14	7.0	6.1	4.5	9.7	4.9	5.2	5.4	11
9	1.6	18	6.5	9.4	6.6	6.1	4.5	11	5.0	5.8	4.4	11
10	1.9	22	6.5	9.2	6.5	6.0	4.7	11	5.4	5.8	4.2	11
11	3.4	26	6.8	8.6	6.5	6.0	5.0	12	6.0	5.4	4.4	11
12	9.7	25	7.4	8.3	5.4	5.7	5.6	11	5.9	5.2	5.3	11
13	5.9	20	7.7	8.1	2.8	5.7	6.7	10	6.4	3.7	64	19
14	5.1	17	7.7	8.0	4.3	5.8	7.4	12	6.0	2.3	269	13
15	4.6	15	7.5	8.0	5.0	5.3	7.7	9.4	5.2	2.6	139	13
16	4.3	13	7.4	8.0	5.5	4.6	10	8.5	5.4	2.6	105	12
17	4.5	11	7.3	8.0	5.7	4.3	11	9.3	5.9	3.5	95	9.6
18	4.1	9.9	7.1	7.8	5.8	4.7	11	9.6	5.7	3.2	65	8.7
19	4.4	9.1	6.9	7.7	5.9	3.7	10	8.3	4.7	3.3	48	7.9
20	4.0	8.3	6.8	7.6	6.0	1.2	13	7.7	4.5	6.8	34	7.3
21	4.1	8.1	6.5	7.5	6.0	1.2	12	8.4	3.8	5.3	27	6.9
22	4.9	8.0	6.4	7.6	6.2	1.1	10	8.7	3.9	5.3	20	6.7
23	12	8.0	6.2	7.6	6.2	1.8	10	7.4	4.3	4.7	15	6.2
24	9.9	8.0	6.3	7.4	6.1	2.1	13	8.2	3.6	4.5	e11	5.8
25	6.7	7.8	6.3	7.4	5.9	2.8	10	9.0	3.5	4.5	e11	5.4
26	5.6	7.7	6.2	7.4	6.9	4.1	11	8.6	5.3	4.7	13	4.9
27	5.1	7.8	6.3	7.5	7.1	4.1	14	8.4	4.6	4.7	16	4.7
28	5.4	7.7	8.9	7.4	6.8	4.5	12	8.3	7.5	5.0	29	4.2
29	5.4	7.5	16	7.4	---	4.2	11	8.3	6.5	20	19	3.8
30	5.2	7.4	16	7.4	---	4.0	11	8.1	6.2	15	18	3.6
31	5.0	---	16	7.3	---	3.4	---	8.0	---	11	18	---
TOTAL	130.89	386.7	242.0	323.6	173.6	137.2	241.3	283.1	166.0	178.3	1257.1	286.7
MEAN	4.22	12.9	7.81	10.4	6.20	4.43	8.04	9.13	5.53	5.75	40.6	9.56
MAX	12	28	16	19	7.2	6.5	14	12	7.9	20	269	19
MIN	.83	5.1	6.2	7.3	2.8	1.1	2.9	7.3	3.5	2.3	4.2	3.6
AC-FT	260	767	480	642	344	272	479	562	329	354	2490	569

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2001, BY WATER YEAR (WY)

MEAN	13.0	13.1	30.9	26.5	25.9	30.7	22.9	15.1	7.93	11.3	32.6	13.2
MAX	67.9	43.9	186	163	99.1	93.2	89.5	64.9	23.0	52.1	234	48.6
(WY)	1986	1979	1985	1993	1995	1992	1992	1992	1992	1986	1988	1988
MIN	2.56	2.47	3.65	4.24	3.11	2.16	2.34	1.84	1.98	1.64	.94	.87
(WY)	1995	1981	1981	1981	1981	1990	1990	1990	2000	1994	2000	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1978 - 2001	
ANNUAL TOTAL	1625.16		3806.49			
ANNUAL MEAN	4.44		10.4		20.3	
HIGHEST ANNUAL MEAN					45.1	1985
LOWEST ANNUAL MEAN					4.73	2000
HIGHEST DAILY MEAN	28	Nov 5	269	Aug 14	2500	Dec 28 1984
LOWEST DAILY MEAN	.63	Jul 22	.83	Oct 3	.07	Jul 11 1994
ANNUAL SEVEN-DAY MINIMUM	.63	Jul 22	.96	Oct 1	.34	Jul 8 1994
MAXIMUM PEAK FLOW			349	Aug 14	[a]6360	Dec 28 1984
MAXIMUM PEAK STAGE			3.11	Aug 14	[b]8.05	Dec 28 1984
INSTANTANEOUS LOW FLOW			3.4	Sep 29	.20	Sep 18 2000
ANNUAL RUNOFF (AC-FT)	3220		7550		14720	
10 PERCENT EXCEEDS	7.6		16		47	
50 PERCENT EXCEEDS	3.5		7.0		8.2	
90 PERCENT EXCEEDS	.85		3.8		2.8	

e Estimated
a From rating curve extended above 450 ft^3/s, on basis of slope-area measurement at gage heights 6.70 ft and 8.05 ft.
b From floodmarks.

08480595 SALT CREEK NEAR TULAROSA, NM

LOCATION.--Lat 33°16'32", long 106°23'50", in $SE^1/_4NE^1/_4$ sec.16, T.12 S., R.6 E., Sierra County Hydrologic Unit 10301103, on right bank, 360 ft upstream from Range Road 316, 0.5 mi east of Range Road 7, and about 65 miles north of small missile range on U.S. Highway 70.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1995 to current year. Published as "Salt Creek at Range Road 316 on White Sands Missile Range," August 1995 to September 1996.

GAGE.--Water-stage recorder. Elevation of gage is 4,020 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for those estimated, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	.66	.99	.92	.70	1.3	.98	.55	.68	.26	.50	.78
2	.36	.80	1.0	.84	.78	1.0	.98	.52	.62	.27	.29	.39
3	.38	.66	1.0	.84	.79	.99	.95	.55	.57	.24	.27	.33
4	.40	e.60	.98	.87	.75	.87	.94	.59	.54	.22	.53	.30
5	.42	e.55	.99	.86	.78	.83	.95	.65	.60	.22	.61	.27
6	.43	e.49	.96	.86	.78	.80	1.1	.69	.59	.22	.66	.30
7	.41	e.45	.95	.83	.81	1.4	.95	.71	.54	.24	.66	.24
8	.29	e.41	.94	.80	.82	6.0	.88	.73	.54	.22	.59	.23
9	.29	.32	.93	.93	.83	1.5	.83	.83	.52	.22	.50	.23
10	.37	.46	.94	.88	.80	1.0	.80	.97	.50	.21	.44	.22
11	.34	.56	.91	.83	.77	.90	.85	.99	.45	.21	.49	.28
12	e.24	.65	.91	.81	.77	.90	.87	.80	.37	.20	.51	.32
13	e.23	.73	.96	.73	.97	.89	.89	.90	.34	.20	.49	6.2
14	.34	.74	.93	.74	1.1	.87	.84	4.5	.38	.19	.48	2.7
15	.43	.75	.91	.79	.85	.84	.85	18	.36	.17	.45	24
16	.46	.80	.83	.72	.78	.88	.84	1.3	.38	.20	.40	e100
17	.50	.83	.86	1.0	.78	.99	.78	.93	.36	.22	.30	e80
18	.54	.90	.78	1.1	.78	.96	.83	.80	.37	.23	.32	3.7
19	.52	.87	.83	.95	.74	.96	.79	.81	.34	.31	.39	1.9
20	e.50	.90	.87	.86	.74	.94	.68	1.6	.32	.26	.44	1.4
21	e.48	.90	.82	.82	.73	.90	.52	.90	.32	.24	.47	1.1
22	e.44	.90	.85	.81	.71	.91	.68	.80	.32	2.8	.43	1.0
23	e.42	.92	.84	1.2	.69	.92	.66	.83	.31	6.5	.39	.92
24	e.38	.96	.83	.96	.67	.86	.65	.80	.29	.79	.30	.88
25	.33	.99	2.1	.81	.71	.89	.64	.75	.28	.63	.28	.84
26	.51	1.0	2.5	.73	1.0	.93	.64	.74	.28	.34	.27	.83
27	.57	1.0	1.5	3.2	1.8	.91	.61	.68	.31	.52	.27	.78
28	e.50	1.0	1.1	3.1	2.0	.97	.59	.64	.29	.66	.26	.75
29	e.45	1.1	.98	1.4	---	1.1	.55	.67	.28	.70	.31	.72
30	.42	1.2	.96	.99	---	1.1	.58	.68	.26	.67	.30	.72
31	.56	---	.94	.81	---	1.0	---	.68	---	.71	.99	---
TOTAL	12.87	23.10	31.89	31.99	24.43	35.31	23.70	45.59	12.31	19.07	13.59	232.33
MEAN	.42	.77	1.03	1.03	.87	1.14	.79	1.47	.41	.62	.44	7.74
MAX	.57	1.2	2.5	3.2	2.0	6.0	1.1	18	.68	6.5	.99	100
MIN	.23	.32	.78	.72	.67	.80	.52	.52	.26	.17	.26	.22
AC-FT	26	46	63	63	48	70	47	90	24	38	27	461

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2001, BY WATER YEAR (WY)

MEAN	.79	.82	.83	.84	.69	.74	.61	.66	1.13	2.53	1.75	2.11
MAX	2.08	1.80	1.17	1.25	1.00	1.14	.79	1.47	2.46	6.80	3.22	7.74
(WY)	2000	1999	1998	2000	2000	2001	2001	2001	1996	1999	1996	2001
MIN	.13	.34	.50	.55	.43	.51	.39	.25	.24	.62	.40	.22
(WY)	1996	1996	1996	1998	1998	1996	1996	1996	1998	2001	1997	1998

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1995 - 2001	
ANNUAL TOTAL	289.90		506.18			
ANNUAL MEAN	.79		1.39		1.12	
HIGHEST ANNUAL MEAN					1.53	1999
LOWEST ANNUAL MEAN					.73	1998
HIGHEST DAILY MEAN	17	Jun 27	100	Sep 16	100	Sep 16 2001
LOWEST DAILY MEAN	.22	Sep 21	.17	Jul 15	.06	Oct 5 1995
ANNUAL SEVEN-DAY MINIMUM	.25	Sep 16	.20	Jul 10	.08	Oct 3 1995
MAXIMUM PEAK FLOW			300	Sep 16	300	Sep 16 2001
MAXIMUM PEAK STAGE			7.05	Sep 16	7.05	Sep 16 2001
INSTANTANEOUS LOW FLOW			.17	Jul 15	.17	Jul 15 2001
ANNUAL RUNOFF (AC-FT)	575		1000		814	
10 PERCENT EXCEEDS	1.2		1.0		1.1	
50 PERCENT EXCEEDS	.66		.75		.53	
90 PERCENT EXCEEDS	.37		.28		.25	

e Estimated

08480595 SALT CREEK AT TULAROSA, NM--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1995 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
JAN													
11...	1125	.00	8.5	--	.90	--	--	--	--	--	--	--	--
FEB													
01...	1235	1.0	7.0	--	1.2	--	--	--	--	--	--	--	--
MAR													
02...	1245	8.5	11.5	--	1.2	--	--	--	--	--	--	--	--
APR													
30...	1115	14.0	24.0	--	.61	--	--	--	--	--	--	--	--
MAY													
14...	1410	25.0	27.5	--	1.6	--	--	--	--	--	--	--	--
14...	1415	25.0	27.5	661	1.5	35300	9.8	156	8.6	12	195	E.025	<.006
JUN													
04...	1355	20.0	33.0	--	.54	--	--	--	--	--	--	--	--
27...	1045	19.5	25.5	--	.33	--	--	--	--	--	--	--	--
JUL													
24...	1515	29.0	37.0	--	.48	--	--	--	--	--	--	--	--
AUG													
23...	1206	21.0	32.5	--	.37	--	--	--	--	--	--	--	--

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
JAN													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	.79	1.7	<.050	.062	.021	<.020	4200	797	520	8320	56	205	12000
JUN													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BORON, DISSOLVED (UG/L AS B) (01020)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
JAN													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	4940	4.2	13.8	<8.0	<8	36.8	47.0	1260	1410	<2.00	<.90	<6.4	8
JUN													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--

08480595 SALT CREEK AT TULAROSA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
JAN													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<13.0	<12.0	E70	<200	<12.0	<12	79	E43.5	<2.0	<3.00	20300	19300	<400
JUN													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)
JAN													
11...	--	--	--	--	--	--	--	--	--	--	98	--	--
FEB													
01...	--	--	--	--	--	--	--	--	--	--	100	--	--
MAR													
02...	--	--	--	--	--	--	--	--	--	--	97	--	--
APR													
30...	--	--	--	--	--	--	--	--	--	--	96	--	--
MAY													
14...	--	--	--	--	--	--	--	--	--	--	99	--	--
14...	<310	481	<450	97.2	2380	<10.0	<10.0	180	28900	26900	--	3.01	<.10
JUN													
04...	--	--	--	--	--	--	--	--	--	--	98	--	--
27...	--	--	--	--	--	--	--	--	--	--	100	--	--
JUL													
24...	--	--	--	--	--	--	--	--	--	--	96	--	--
AUG													
23...	--	--	--	--	--	--	--	--	--	--	100	--	--

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
JAN		
11...	--	--
FEB		
01...	--	--
MAR		
02...	--	--
APR		
30...	--	--
MAY		
14...	--	--
14...	<.01	163
JUN		
04...	--	--
27...	--	--
JUL		
24...	--	--
AUG		
23...	--	--

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	2,4-DP TOTAL (UG/L) (82183)
MAY					
14...	1415	<.01	<.01	<.01	<.04

Remark codes used in this report:
< -- Less than
E -- Estimated value

09343300 RIO BLANCO BELOW BLANCO DIVERSION DAM, NEAR PAGOSA SPRINGS, CO

LOCATION.--Lat 37°12'13", long 106°48'42", in NW $^{1}/_{4}$ sec. 11, T.34 N., R.1 E., Archuleta County, Hydrologic Unit 14080101, on left bank 250 ft downstream from Blanco Diversion Dam, 1.1 mi downstream from Leche Creek, and 12 mi southeast of Pagosa Springs.

DRAINAGE AREA.--69.1 mi^2.

PERIOD OF RECORD.--March 1971 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,858.04 ft above sea level (levels by Bureau of Reclamation).

REMARKS.--Records good except periods of flow above 65 ft^3/s, which are fair, and those estimated, which are poor. Flow controlled by diversion dam upstream.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	37	e22	19	13	14	26	e130	40	22	22	21
2	9.0	33	e22	20	14	e14	26	e120	29	22	21	20
3	8.7	31	e22	20	15	e14	25	41	24	22	21	20
4	15	30	e20	23	16	e14	25	43	22	23	18	21
5	20	32	e20	27	20	e14	23	43	22	23	18	22
6	13	e28	e20	28	21	15	22	43	22	20	21	22
7	11	e24	e20	e24	19	15	22	44	21	16	22	21
8	12	e22	20	e22	18	15	21	43	22	18	21	21
9	15	e22	21	20	17	16	22	44	22	27	20	21
10	16	22	20	22	e14	17	22	44	22	26	21	21
11	66	22	e17	18	16	16	22	58	23	23	21	19
12	96	22	e20	17	e16	15	22	103	23	23	21	18
13	52	e20	20	e16	e15	e15	21	135	23	23	22	18
14	33	e20	19	e16	15	20	22	396	23	23	27	19
15	28	22	e18	16	e14	e16	22	351	23	23	22	19
16	26	e20	e16	16	e14	e17	22	240	23	22	22	18
17	23	e18	e16	e15	e14	17	22	256	23	23	22	18
18	23	e16	14	e13	e14	e17	22	254	23	22	22	19
19	22	e18	16	e13	e14	e17	22	256	23	22	22	20
20	19	e18	19	e13	e14	23	22	236	22	22	22	16
21	18	e20	19	e13	14	28	21	167	22	22	22	18
22	18	e20	21	e14	e14	23	21	142	22	22	22	17
23	25	21	20	e14	14	23	22	115	22	21	21	17
24	48	e20	19	e14	14	23	23	70	23	22	21	16
25	41	20	20	e14	e14	23	23	58	22	21	20	16
26	42	e20	17	14	e14	24	22	68	22	22	22	15
27	46	e20	e16	15	14	24	22	81	21	22	22	14
28	80	e22	e16	15	14	24	21	132	21	22	22	14
29	68	e22	19	15	---	24	37	87	21	22	21	14
30	52	e22	19	14	---	25	48	43	22	21	21	14
31	48	---	19	12	---	26	---	46	---	22	21	---
TOTAL	1003.4	684	587	532	425	588	713	3889	693	684	663	549
MEAN	32.4	22.8	18.9	17.2	15.2	19.0	23.8	125	23.1	22.1	21.4	18.3
MAX	96	37	22	28	21	28	48	396	40	27	27	22
MIN	8.7	16	14	12	13	14	21	41	21	16	18	14
AC-FT	1990	1360	1160	1060	843	1170	1410	7710	1370	1360	1320	1090

CAL YR 2000 TOTAL 7539.0 MEAN 20.6 MAX 96 MIN 7.0 AC-FT 14950
WTR YR 2001 TOTAL 11010.4 MEAN 30.2 MAX 396 MIN 8.7 AC-FT 21840

e Estimated

09344400 NAVAJO RIVER BELOW OSO DIVERSION DAM, NEAR CHROMO, CO

LOCATION.--Lat 37°01'49", long 106°44'14", in $NE^1/_4$ $NW^1/_4$ sec. 9, T.32 N., R.2 E., Archuleta County, Hydrologic Unit 14080101, on left bank 600 ft downstream from Oso Diversion Dam, 5.8 mi east of Chromo, and 6.1 mi upstream from Little Navajo River.

DRAINAGE AREA.--100.5 mi^2.

PERIOD OF RECORD.--March 1971 to current year.

GAGE.--Water-stage recorder with satellite telemetry, and parshall flume. Datum of gage is 7,665.30 ft above sea level (levels by Bureau of Reclamation). Prior to Sept. 5, 1979, at same site, at different datum.

REMARKS.--Records good except for periods of flow above 140 ft^3/s, which are fair, and those estimated, which are poor. Flow controlled by diversion dam upstream.

COOPERATION.--Record collected by Bureau of Reclamation, computed by Colorado Division of Water Resources.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	48	38	e29	e26	32	40	94	75	59	61	64
2	17	42	37	30	e27	30	40	97	78	63	65	49
3	17	41	37	e30	e28	30	40	94	64	62	65	46
4	20	41	36	31	e29	30	40	91	58	59	88	45
5	24	42	37	32	e29	32	40	91	58	58	69	44
6	25	29	37	33	e30	32	40	92	59	58	88	43
7	26	26	37	e32	34	33	39	92	59	58	71	42
8	26	38	38	e32	33	37	38	91	61	58	73	40
9	27	38	38	e32	31	41	39	91	61	58	74	40
10	28	39	37	33	30	38	38	91	61	58	103	39
11	43	41	32	e32	32	36	38	93	61	58	106	36
12	44	37	34	e30	30	35	38	93	58	58	114	35
13	40	28	35	31	31	34	38	e100	57	57	85	36
14	40	30	36	e30	31	35	39	e210	57	58	100	47
15	40	34	36	e30	29	32	39	e230	58	57	56	41
16	39	31	31	e30	30	32	40	e250	61	57	58	37
17	38	e32	30	e29	30	35	40	294	61	56	58	37
18	37	33	e28	e28	32	34	40	e210	60	56	58	37
19	36	31	e26	e28	31	34	40	e170	58	55	57	36
20	36	32	27	e29	31	38	40	e180	58	56	56	35
21	35	32	27	e30	31	41	39	e120	58	57	57	35
22	36	35	28	e32	31	40	39	92	59	58	57	36
23	37	38	29	33	32	41	38	92	59	58	57	36
24	41	36	29	e30	31	40	39	92	58	58	57	35
25	41	38	31	29	29	39	39	93	59	58	55	36
26	41	37	30	e28	31	40	40	146	59	57	53	33
27	41	38	e30	32	33	40	40	e160	58	57	52	34
28	42	38	30	31	33	40	41	e180	59	56	50	33
29	41	38	30	31	---	40	39	e140	59	53	48	33
30	32	39	30	e30	---	39	55	99	59	52	45	33
31	45	---	e29	e30	---	39	---	92	---	61	50	---
TOTAL	1054	1082	1010	947	855	1119	1195	4060	1810	1784	2086	1173
MEAN	34.0	36.1	32.6	30.5	30.5	36.1	39.8	131	60.3	57.5	67.3	39.1
MAX	45	48	38	33	34	41	55	294	78	63	114	64
MIN	17	26	26	28	26	30	38	91	57	52	45	33
AC-FT	2090	2150	2000	1880	1700	2220	2370	8050	3590	3540	4140	2330

CAL YR 2000 TOTAL 14749 MEAN 40.3 MAX 117 MIN 17 AC-FT 29250
WTR YR 2001 TOTAL 18175 MEAN 49.8 MAX 294 MIN 17 AC-FT 36050

e Estimated

09345200 LITTLE NAVAJO RIVER BELOW LITTLE OSO DIVERSION DAM NEAR CHROMO, CO

LOCATION.--Lat 37°04'32", long 106°48'38", in SW $^1/_4$ SE $^1/_4$ sec. 23, T.33 N., R.1 E., Archuleta County, Hydrologic Unit 14080101, on right bank downstream from Little Oso Diversion Dam, 3.5 mi northeast of Chromo, and 4.0 mi upstream from confluence with Navajo River.

DRAINAGE AREA.--14.2 mi^2.

PERIOD OF RECORD.--December 1996 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,756.10 ft above sea level (levels by Bureau of Reclamation).

REMARKS.--Records fair except for those estimated, which are poor.

COOPERATION.--Records collected and computed by Bureau of Reclamation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.77	1.5	e1.3	e1.0	e.60	e1.3	8.3	38	35	6.5	2.7	2.4
2	.64	1.3	e1.3	e1.0	e.70	e1.2	7.6	36	34	6.7	2.6	1.2
3	.70	1.3	e1.2	e1.0	e.80	1.2	10	32	31	6.0	2.8	1.0
4	1.0	1.3	e1.2	e1.1	e.90	1.3	11	30	30	7.9	3.6	.88
5	1.2	1.3	e1.2	e1.1	e1.0	1.4	9.9	30	28	5.6	6.3	.86
6	.96	1.2	e1.2	e1.2	e1.1	1.5	12	32	26	5.9	6.6	.58
7	.88	1.1	e1.3	e1.1	e1.5	1.6	10	30	25	5.2	3.8	.56
8	.88	1.2	e1.4	e1.1	e1.4	1.7	8.1	30	26	4.9	4.3	.60
9	.98	.96	e1.5	e1.1	e1.3	2.0	8.7	30	25	5.2	5.9	.60
10	.97	1.3	e1.4	e1.2	e1.2	2.0	9.5	30	23	5.1	6.5	.58
11	2.0	1.3	e1.4	e1.1	e1.4	1.9	8.4	31	21	4.4	6.7	.50
12	4.6	1.3	e1.4	e1.1	e1.2	1.4	9.5	32	19	4.1	6.1	.43
13	2.2	1.2	e1.3	e1.0	e1.4	1.5	8.6	33	17	4.1	4.4	.46
14	1.4	e1.2	e1.2	e.90	e1.3	2.0	8.5	40	16	6.8	11	3.4
15	1.2	e1.2	e1.2	e.90	e1.1	1.8	10	37	14	5.4	6.8	2.4
16	1.2	e1.1	e1.1	e.90	e1.2	1.8	11	38	13	4.3	6.2	1.9
17	1.1	e1.0	e1.0	e.80	e1.3	1.8	8.3	39	12	3.7	5.0	1.9
18	1.1	e.90	e.80	e.70	e1.4	1.7	8.7	37	11	3.5	4.1	1.8
19	.98	e.90	e.90	e.80	e1.4	1.9	5.7	45	11	3.3	3.5	2.2
20	.98	e.90	e1.0	e1.0	e1.4	2.7	7.4	49	9.5	3.2	3.3	1.7
21	.98	e.90	e.90	e1.1	e1.4	4.9	4.5	33	8.8	3.2	3.4	1.6
22	.98	e1.0	e.90	e1.3	e1.4	7.2	10	29	8.6	3.1	3.3	1.6
23	1.5	e1.1	e.90	e1.4	e1.4	8.3	11	35	8.0	3.1	e7.0	1.6
24	2.4	e1.1	e1.0	e1.3	e1.3	8.0	13	39	7.5	3.9	e5.0	1.6
25	1.6	e1.2	e1.1	e1.3	e1.2	11	8.1	38	7.5	3.1	e3.0	1.6
26	1.5	e1.2	e1.0	e1.2	e1.3	11	7.5	36	7.9	3.0	2.8	1.5
27	1.8	e1.3	e.90	e1.4	e1.4	7.2	8.5	35	7.8	2.8	2.8	1.5
28	4.7	e1.3	e1.0	e1.3	e1.4	6.9	12	32	7.0	2.6	2.8	1.4
29	2.6	e1.3	e1.0	e1.2	---	6.6	15	35	6.5	2.5	2.8	1.4
30	2.0	e1.3	e1.0	e1.0	---	6.6	22	37	6.3	2.4	2.8	1.4
31	2.0	---	e1.0	e.60	---	8.3	---	37	---	2.7	3.6	---
TOTAL	47.80	35.16	35.00	33.20	34.40	119.7	292.8	1085	502.4	134.2	141.5	41.15
MEAN	1.54	1.17	1.13	1.07	1.23	3.86	9.76	35.0	16.7	4.33	4.56	1.37
MAX	4.7	1.5	1.5	1.4	1.5	11	22	49	35	7.9	11	3.4
MIN	.64	.90	.80	.60	.60	1.2	4.5	29	6.3	2.4	2.6	.43
AC-FT	95	70	69	66	68	237	581	2150	997	266	281	82

CAL YR 2000 TOTAL 1139.34 MEAN 3.11 MAX 30 MIN .46 AC-FT 2260
WTR YR 2001 TOTAL 2502.31 MEAN 6.86 MAX 49 MIN .43 AC-FT 4960

e Estimated

09346400 SAN JUAN RIVER NEAR CARRACAS, CO

LOCATION.--Lat 37°00'49", long 107°18'42", in $SE^1/_4SW^1/_4$ sec.17, T.32 N., R.4 W., Archuleta County, Hydrologic Unit 14080101, on right bank 5 ft above the maximum water surface of Navajo Reservoir, 3 mi northwest of Carracas, 7.2 mi upstream from Piedra River.

DRAINAGE AREA.--1,230 mi^2, approximately.

PERIOD OF RECORD.--Streamflow records, October 1961 to current year. Water-quality data available, July 1969 to August 1973. Sediment data available, August 1973. Statistical summary computed for 1971 to current year.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,090 ft above sea level, 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 (station 08284160) began in March 1971.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	256	157	e135	e96	143	905	2070	2190	563	325	295
2	72	231	159	e134	e116	129	1090	2410	2280	600	369	232
3	62	206	155	e140	e123	131	1050	2160	2250	556	323	192
4	64	198	145	e140	e126	139	1050	1760	2100	494	514	175
5	87	211	147	e140	e130	152	1110	1520	1810	451	343	166
6	111	220	157	e140	e134	170	1470	1340	1680	407	370	155
7	94	173	146	e140	e138	192	1450	1270	1730	365	480	139
8	89	153	154	e139	e144	243	959	1270	1920	365	500	122
9	88	156	157	e139	e148	288	768	1480	2000	408	503	115
10	101	158	151	e140	168	303	743	1650	1980	404	509	115
11	136	177	141	e140	142	246	711	1870	1830	343	571	113
12	431	166	122	e140	145	217	677	2240	1700	302	664	106
13	397	179	140	e140	134	208	602	2380	1480	278	563	107
14	239	156	142	e140	136	264	616	2920	1250	349	751	186
15	184	138	132	e141	133	259	632	3090	1030	332	803	150
16	168	177	e133	e136	116	247	739	3140	939	296	573	132
17	159	157	133	e129	122	264	913	3100	942	258	510	123
18	153	148	e136	e125	125	238	1160	3240	974	247	e438	116
19	144	150	e136	e116	146	279	1420	2970	968	219	e382	116
20	141	134	e136	e112	168	381	1510	3050	950	211	e344	109
21	135	135	e134	e112	177	628	1450	2910	909	194	307	107
22	137	151	e133	e117	191	893	1200	2440	864	221	307	103
23	146	201	e137	e121	187	956	1050	2290	832	225	302	101
24	344	147	e137	e121	142	925	1140	2270	791	212	268	93
25	291	147	e136	e119	124	1010	1110	2300	757	206	235	85
26	228	141	e136	e117	123	1150	1250	2430	736	198	217	84
27	221	147	e135	e103	161	1050	1480	2490	809	198	204	81
28	337	150	e136	e115	167	980	1680	2650	683	175	198	75
29	505	153	e136	e117	---	814	1760	2570	620	155	215	76
30	328	156	e135	e115	---	692	1950	2150	603	144	206	75
31	257	---	e135	e103	---	811	---	2110	---	161	184	---
TOTAL	5924	5072	4369	3966	3962	14402	33645	71540	39607	9537	12478	3844
MEAN	191	169	141	128	142	465	1122	2308	1320	308	403	128
MAX	505	256	159	141	191	1150	1950	3240	2280	600	803	295
MIN	62	134	122	103	96	129	602	1270	603	144	184	75
AC-FT	11750	10060	8670	7870	7860	28570	66730	141900	78560	18920	24750	7620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2001, BY WATER YEAR (WY)

MEAN	309	248	177	160	196	598	1076	1753	1786	644	348	293
MAX	932	983	406	296	481	1369	2524	3195	4039	2427	1004	880
(WY)	1987	1987	1987	1987	1986	1995	1979	1973	1985	1995	1999	1982
MIN	106	104	72.9	74.7	85.0	134	233	395	251	97.0	69.0	61.2
(WY)	1979	1990	1990	1990	1990	1977	1977	1977	1977	2000	1972	1978

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1971 - 2001	
ANNUAL TOTAL	96231		208346			
ANNUAL MEAN	263		571		[a]633	
HIGHEST ANNUAL MEAN					[b]1191	1985
LOWEST ANNUAL MEAN					[b]200	1977
HIGHEST DAILY MEAN	1350	May 6	3240	May 18	[b]6700	Mar 12 1985
LOWEST DAILY MEAN	40	Aug 7	62	Oct 3	[c]28	Sep 14 1974
ANNUAL SEVEN-DAY MINIMUM	43	Aug 5	81	Oct 1	39	Sep 14 1978
MAXIMUM PEAK FLOW			3620	May 18	[d]8590	Mar 6 1995
MAXIMUM PEAK STAGE			5.45	May 18	[f]8.10	Mar 6 1995
ANNUAL RUNOFF (AC-FT)	190900		413300		458700	
10 PERCENT EXCEEDS	677		1740		1700	
50 PERCENT EXCEEDS	147		206		285	
90 PERCENT EXCEEDS	70		116		113	

e Estimated.
a Average discharge for 9 years (water years 1962-70), 632 ft^3/s; 457,900 acre-ft/yr, prior to completion of Azotea tunnel.
b Also the highest (or lowest, as is appropriate) for the period of record.
c Also minimum daily discharge for period of record.
d Maximum discharge for period of record, 9,730 ft^3/s, Sept. 6, 1970, gage height, 8.34 ft, from rating curve extended above 6,000 ft^3/s, on basis of slope-area measurement of peak flow.
f Maximum gage height for statistical period and period of record, 9.63 ft, Jan 4, 1994, backwater from ice.

09349800 PIEDRA RIVER NEAR ARBOLES, CO

LOCATION.--Lat 37°05'18", long 107°23'50", in NE$^1/_4$SW$^1/_4$ sec.21, T.33 N., R.5 W., Archuleta County, Hydrologic Unit 14080102, on left bank 2.5 mi upstream from Navajo Reservoir, 3.0 mi downstream from Ignacio Creek, and 4.6 mi northeast of Arboles Post Office.

DRAINAGE AREA.--629 mi^2.

PERIOD OF RECORD.--August 1962 to current year. Gage 09350000 (Piedra River At Arboles) operated 1895-99 and 1910-27 at site 7.5 mi downstream at elevation 6,000 ft, published in WSP 1313. Low-flow records probably not equivalent. Water-quality data available July 1969 to August 1973, December 1988 to May 1989.

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gage. Datum of gage is 6,147.52 ft above sea level, 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.
EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred Sept. 5 or 6, 1909, and Oct. 5, 1911.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	153	85	69	e67	82	803	1830	1740	335	159	120
2	53	139	86	69	e67	78	977	2010	1810	311	186	124
3	50	131	85	69	e67	78	907	1820	1890	307	169	117
4	55	128	80	69	e67	79	1040	1500	1820	286	240	103
5	61	138	79	69	e67	84	1110	1290	1520	259	227	95
6	68	131	82	67	e68	91	1130	1130	1190	263	258	93
7	62	104	81	e69	e68	105	992	1060	1210	224	267	87
8	62	97	89	69	e68	155	780	1110	1270	209	245	80
9	63	101	94	68	e68	152	654	1310	1310	195	275	74
10	78	106	90	e68	e68	169	715	1370	1320	194	254	70
11	112	106	89	67	e68	152	637	1530	1230	172	282	67
12	269	100	84	66	e68	139	572	1730	1140	160	259	64
13	230	84	87	e66	68	144	515	1870	1000	151	276	69
14	162	76	86	e66	e68	165	519	2210	811	145	353	81
15	135	83	81	e66	68	153	603	2240	675	138	507	86
16	120	77	70	e66	67	156	785	2320	626	138	367	80
17	113	63	67	e66	70	164	984	2180	618	124	303	81
18	104	77	71	e66	76	147	1210	2070	634	115	249	81
19	104	84	72	e66	78	159	1450	2030	633	109	213	82
20	105	84	e77	e66	78	201	1610	2040	611	109	193	76
21	103	87	e77	e66	76	301	1490	2030	591	104	178	74
22	104	89	e77	e65	79	449	1210	1790	567	107	183	74
23	117	105	e77	e66	79	504	1010	1760	532	104	182	71
24	178	95	e76	e66	76	491	903	1670	485	104	161	66
25	183	89	e75	e66	71	570	973	1600	457	98	142	61
26	158	84	e74	e66	73	714	1220	1800	446	96	129	60
27	146	84	73	e66	87	718	1400	1870	484	98	119	58
28	213	88	72	e66	89	696	1630	1970	413	90	114	58
29	254	84	e71	e66	---	645	1690	1830	372	85	114	56
30	190	85	71	e66	---	549	1750	1300	368	82	107	57
31	168	---	70	e66	---	655	---	1510	---	82	103	---
TOTAL	3877	2952	2448	2072	2014	8945	31269	53780	27773	4994	6814	2365
MEAN	125	98.4	79.0	66.8	71.9	289	1042	1735	926	161	220	78.8
MAX	269	153	94	69	89	718	1750	2320	1890	335	507	124
MIN	50	63	67	65	67	78	515	1060	368	82	103	56
AC-FT	7690	5860	4860	4110	3990	17740	62020	106700	55090	9910	13520	4690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2001, BY WATER YEAR (WY)

MEAN	178	129	91.6	75.8	93.8	326	882	1310	1046	345	230	215
MAX	618	517	257	153	244	895	2126	2926	2526	1133	1014	943
(WY)	1973	1987	1987	1987	1986	1995	1979	1979	1979	1975	1999	1970
MIN	51.2	48.4	31.2	31.2	34.7	47.4	126	168	121	63.6	37.0	35.3
(WY)	1979	1968	1990	1990	1964	1964	1977	1977	1977	2000	1972	1978

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1963 - 2001	
ANNUAL TOTAL	81245		149303			
ANNUAL MEAN	222		409		411	
HIGHEST ANNUAL MEAN					822	1979
LOWEST ANNUAL MEAN					94.0	1977
HIGHEST DAILY MEAN	1370	May 5	2320	May 16	5360	Sep 6 1970
LOWEST DAILY MEAN	31	Aug 9	50	Oct 3	19	Nov 29 1989
ANNUAL SEVEN-DAY MINIMUM	34	Aug 7	58	Oct 1	26	Dec 11 1989
MAXIMUM PEAK FLOW			2500	May 16	[a]8370	Sep 6 1970
MAXIMUM PEAK STAGE			4.22	May 16	[b]6.38	Sep 6 1970
ANNUAL RUNOFF (AC-FT)	161100		296100		297600	
10 PERCENT EXCEEDS	773		1380		1200	
50 PERCENT EXCEEDS	84		115		151	
90 PERCENT EXCEEDS	50		66		55	

e Estimated.
a From rating curve extended above 4,400 ft^3/s, on basis of slope-area measurement of peak flow.
b Gage height, 6.38 ft, recorded, 7.55 ft, from floodmarks.

09354500 LOS PINOS RIVER AT LA BOCA, CO

LOCATION.--Lat 37°00'34", long 107°35'56", in NE$^1/_4$NW$^1/_4$ 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, 0.5 mi upstream from Spring Creek, and 2 mi upstream from maximum elevation of Navajo Reservoir.

DRAINAGE AREA.--520 mi^2.

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733. Water-quality data available, July 1969 to August 1973, January 1988 to September 1991.

REVISED RECORDS.--WDR CO-00-2: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,127.21 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Vallecito Reservoir (station 09353000, capacity 125,640 acre-ft.) 24 mi upstream since April 1941. Diversions for irrigation of about 55,000 acres upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood on Oct. 5, 1911 has not yet been exceeded.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	71	40	e55	e66	84	473	437	159	167	194	180
2	50	62	39	e55	e66	74	505	471	163	209	227	158
3	47	62	40	e55	e65	71	502	664	168	181	216	158
4	57	58	38	e55	e65	78	467	717	190	173	235	150
5	71	69	40	e55	e64	96	486	807	533	170	190	154
6	60	63	39	e55	e52	129	604	759	645	164	177	152
7	59	54	38	e55	e70	208	597	734	656	162	224	153
8	68	44	40	e55	89	443	494	658	597	161	263	149
9	77	42	56	e55	e88	387	423	620	519	168	272	150
10	90	41	52	e55	e78	336	319	566	856	193	239	156
11	134	47	49	e55	e71	200	441	529	1030	225	232	155
12	143	45	43	e54	e59	185	430	513	1070	175	272	155
13	99	44	43	e54	e57	214	486	501	917	173	320	177
14	91	47	39	e56	e64	247	782	475	547	176	441	224
15	77	43	39	e56	e56	206	790	420	182	199	301	189
16	75	37	37	e58	e56	182	808	368	200	234	233	179
17	77	48	45	e58	e54	199	836	292	204	183	228	198
18	60	51	44	e57	58	191	823	218	424	182	197	196
19	60	52	44	e57	59	237	833	195	336	167	184	185
20	55	51	54	e57	68	595	844	224	186	171	184	163
21	55	48	e54	e58	85	697	835	205	184	176	185	158
22	55	43	e55	e61	104	777	807	174	190	173	185	155
23	73	68	e55	e63	96	714	764	152	180	173	182	154
24	137	79	e55	e65	73	704	524	144	174	164	164	145
25	105	59	e54	e65	61	585	469	131	166	161	160	143
26	77	48	e54	e65	59	582	486	145	187	169	151	139
27	69	46	e54	e65	92	552	494	153	195	168	150	139
28	129	45	e54	e64	101	511	507	159	172	156	147	128
29	115	43	e54	e64	---	513	514	161	173	154	152	133
30	84	42	e54	e65	---	461	493	163	167	161	186	133
31	78	---	e54	e66	---	461	---	160	---	180	181	---
TOTAL	2483	1552	1456	1813	1976	10919	17836	11915	11370	5468	6672	4808
MEAN	80.1	51.7	47.0	58.5	70.6	352	595	384	379	176	215	160
MAX	143	79	56	66	104	777	844	807	1070	234	441	224
MIN	47	37	37	54	52	71	319	131	159	154	147	128
AC-FT	4930	3080	2890	3600	3920	21660	35380	23630	22550	10850	13230	9540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2001, BY WATER YEAR (WY)

MEAN	196	135	103	75.1	97.3	222	349	432	509	303	241	217
MAX	672	709	396	182	362	972	1339	1719	1555	1381	1349	725
(WY)	1987	1987	1983	1985	1993	1993	1979	1958	1979	1957	1999	1997
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1951 - 2001	
ANNUAL TOTAL	35376		78268			
ANNUAL MEAN	96.7		214		244	
HIGHEST ANNUAL MEAN					582	1973
LOWEST ANNUAL MEAN					77.4	1959
HIGHEST DAILY MEAN	362	Aug 19	1070	Jun 12	4560	Jul 27 1957
LOWEST DAILY MEAN	e30	Jan 4	37	Nov 16	6.1	May 1 1977
ANNUAL SEVEN-DAY MINIMUM	33	Jan 17	39	Dec 1	8.3	Apr 30 1977
MAXIMUM PEAK FLOW			1100	Jun 12	[a]6400	Jul 27 1957
MAXIMUM PEAK STAGE			5.67	Jun 12	[b]8.95	Jul 27 1957
ANNUAL RUNOFF (AC-FT)	70170		155200		176500	
10 PERCENT EXCEEDS	162		539		550	
50 PERCENT EXCEEDS	95		155		134	
90 PERCENT EXCEEDS	40		51		50	

e Estimated.
a From rating curve extended above 5,100 ft^3/s.
b Maximum gage height, 9.00 ft, backwater from ice, sometime during period, Dec 23, 1990 to Jan 17, 1991.

09355000 SPRING CREEK AT LA BOCA, CO

LOCATION.--Lat 37°00'40", long 107°35'47", in $SE^1/_4SW^1/_4$ 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.--58.2 mi^2.

REVISED RECORDS.--WDR CO-00-2: Drainage area.

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733. Water-quality data available, May 1974, January 1988 to September 1991.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,160 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Part of flow is return waste from irrigation. Nearly all irrigation in this basin is water diverted from Los Pinos River, which causes a considerable change in the annual pattern and natural flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	5.9	7.9	e5.4	e17	18	14	6.5	35	62	90	70
2	34	5.6	8.1	e5.4	e17	17	17	24	40	75	70	55
3	33	5.3	8.0	e5.4	e17	17	17	9.2	43	62	71	51
4	37	5.3	8.1	e5.4	e17	20	16	18	41	63	98	50
5	44	7.5	8.6	e5.4	e12	24	16	13	42	64	62	51
6	39	6.5	8.1	e5.6	e3.1	26	30	14	44	57	63	52
7	37	5.5	8.9	e5.8	e22	26	26	13	50	58	65	59
8	37	5.3	7.4	e5.8	e39	51	12	10	47	61	82	51
9	36	5.3	9.5	e5.8	e34	26	8.4	15	49	65	75	55
10	43	5.2	11	e5.8	e27	26	7.5	17	49	70	69	54
11	27	6.1	8.9	e5.8	e21	31	7.3	22	51	79	80	52
12	28	6.3	8.4	e4.8	e8.2	35	6.1	22	53	58	92	55
13	12	10	8.0	e4.5	e8.5	28	5.4	28	49	55	131	62
14	e8.4	8.8	8.0	e5.9	e12	20	5.0	27	51	54	104	70
15	e6.6	9.5	8.2	e6.7	e7.4	15	5.1	28	48	59	78	58
16	e5.5	9.0	e6.7	e7.8	e6.5	13	5.4	30	50	60	64	52
17	e4.8	11	e5.2	e8.7	e6.5	15	6.7	30	55	55	66	60
18	e4.7	14	e4.5	e8.3	e8.0	18	7.9	31	60	58	65	57
19	e4.6	15	e4.2	e8.1	e14	16	9.0	34	22	51	66	53
20	e4.6	16	e2.4	e8.2	18	17	9.9	44	32	48	65	55
21	4.7	17	e2.3	e8.3	45	20	9.9	37	51	52	60	54
22	5.4	15	e2.5	e11	36	23	11	36	49	51	64	50
23	11	12	e3.8	e14	23	21	10	35	53	51	65	47
24	37	17	e4.3	e15	14	20	8.6	35	58	52	66	46
25	14	13	e4.9	e16	11	19	8.2	35	55	44	65	43
26	8.1	10	e4.6	e16	14	21	7.8	37	63	52	59	37
27	6.5	8.7	e4.3	e16	38	18	7.6	40	73	55	60	40
28	15	8.3	e4.3	e15	33	17	8.1	42	53	52	60	42
29	13	8.1	e4.3	e15	---	15	7.7	39	53	46	66	43
30	7.2	7.9	e4.3	e15	---	13	6.9	38	54	51	95	43
31	6.4	---	e5.2	e17	---	13	---	37	---	61	82	---
TOTAL	606.5	280.1	194.9	282.9	529.2	659	317.5	846.7	1473	1781	2298	1567
MEAN	19.6	9.34	6.29	9.13	18.9	21.3	10.6	27.3	49.1	57.5	74.1	52.2
MAX	44	17	11	17	45	51	30	44	73	79	131	70
MIN	4.6	5.2	2.3	4.5	3.1	13	5.0	6.5	22	44	59	37
AC-FT	1200	556	387	561	1050	1310	630	1680	2920	3530	4560	3110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2001, BY WATER YEAR (WY)

MEAN	34.9	10.6	5.49	4.84	10.0	18.4	13.2	38.9	57.5	67.6	66.6	58.5
MAX	87.9	29.6	20.4	19.3	54.8	89.7	41.1	64.5	79.3	111	132	92.0
(WY)	1973	1956	1985	1980	1980	1979	1979	1992	1986	1996	1996	1983
MIN	5.25	3.68	1.74	2.04	2.06	2.36	3.77	15.7	24.4	21.2	32.1	26.5
(WY)	1978	1978	1960	1973	2000	1999	1978	1978	1977	1977	1977	1951

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1951 - 2001	
ANNUAL TOTAL	8927.74		10835.8			
ANNUAL MEAN	24.4		29.7		32.6	
HIGHEST ANNUAL MEAN					47.7	1987
LOWEST ANNUAL MEAN					15.6	1977
HIGHEST DAILY MEAN	217	Aug 19	131	Aug 13	918	Mar 6 1995
LOWEST DAILY MEAN	.87	Mar 30	e2.3	Dec 21	.87	Mar 30 2000
ANNUAL SEVEN-DAY MINIMUM	1.2	Feb 27	3.4	Dec 18	1.0	Dec 7 1959
MAXIMUM PEAK FLOW			263	Aug 13	[a]1980	Sep 6 1970
MAXIMUM PEAK STAGE			2.80	Aug 13	[b]4.62	Sep 6 1970
ANNUAL RUNOFF (AC-FT)	17710		21490		23620	
10 PERCENT EXCEEDS	54		62		71	
50 PERCENT EXCEEDS	13		20		23	
90 PERCENT EXCEEDS	2.0		5.4		3.2	

e Estimated.
a From rating curve extended above 160 ft^3/s, on the basis of field estimate of peak flow.
b Maximum gage height, 5.98 ft, Mar 9, 1960, backwater from ice.

09355100 NAVAJO RESERVOIR NEAR ARCHULETA, NM

LOCATION.--Lat 36°48'28", long 107°36'31", in $SW^1/_4SE^1/_4$ 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, 33.0 mi east of Farmington, and at mile 298.6.

DRAINAGE AREA.--3,230 mi^2, 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 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, 1,543,300 acre-ft, May 22, elevation, 6,074.45 ft; minimum contents, 1,258,200 acre-ft, March 6, elevation, 6,052.75 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 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1354800	1322500	1306900	1288300	1269400	1259700	1300600	1418900	1534400	1477500	1456500	1448900
2	1352800	1321600	1306400	1287700	1268700	1259200	1304400	1426900	1533900	1477900	1455900	1448200
3	1350700	1321000	1305800	1287000	1268200	1258700	1307600	1434400	1533000	1477900	1455400	1447800
4	1348700	1320600	1305400	1286200	1267600	1258600	1311600	1439800	1532200	1477900	1454900	1446700
5	1346800	1320200	1304700	1285400	1267300	1258300	1315600	1444900	1530400	1477600	1454300	1445300
6	1345100	1320200	1303900	1284800	1266500	1258200	1321700	1449100	1528700	1476800	1453600	1443200
7	1343600	1319600	1303600	1284300	1266200	1258800	1326000	1452800	1527400	1476300	1453500	1441500
8	1342000	1319200	1303200	1284000	1266700	1260000	1328700	1456800	1526500	1475400	1453500	1439600
9	1340300	1318800	1303200	1283300	1266500	1260700	1330900	1461400	1525200	1475300	1453400	1438700
10	1339100	1318300	1302400	1282600	1266000	1261800	1332500	1466600	1524700	1476500	1453500	1437200
11	1338000	1318000	1301800	1282300	1265400	1262100	1334900	1474100	1524300	1476700	1453500	1436100
12	1337500	1317600	1301100	1281500	1265100	1262700	1336500	1481700	1522200	1476400	1453400	1434400
13	1336800	1316800	1301000	1281100	1264400	1262900	1338200	1489600	1519400	1476100	1455000	1433200
14	1335800	1315800	1300300	1280400	1264000	1263200	1339900	1499500	1515400	1475900	1456200	1432000
15	1334600	1315300	1299400	1279600	1263300	1263400	1342600	1507900	1510200	1475400	1456600	1430600
16	1333600	1314600	1299000	1279400	1262800	1263800	1345500	1515500	1505400	1474600	1457000	1429200
17	1332500	1313700	1298100	1278700	1262200	1264000	1348900	1522300	1500500	1473400	1457200	1427900
18	1331500	1313200	1297400	1277900	1261800	1264400	1353300	1527400	1495400	1473000	1457000	1426700
19	1330700	1312500	1296700	1277300	1261500	1264700	1358400	1532900	1490800	1472000	1457000	1425400
20	1329600	1312000	1295900	1276700	1261100	1266200	1364700	1538200	1487100	1471300	1456900	1423800
21	1328500	1311400	1295000	1276100	1261100	1268000	1369800	1542000	1484600	1470200	1456500	1422300
22	1327500	1311200	1294400	1275400	1260900	1270900	1374700	1543300	1482500	1469400	1455800	1420700
23	1326800	1311000	1293800	1274800	1261200	1273900	1379000	1542200	1480400	1468500	1455400	1419500
24	1326200	1310600	1293200	1274400	1260900	1277100	1382100	1541300	1477900	1467200	1454900	1418100
25	1325700	1310100	1292600	1273900	1260500	1280200	1385200	1539600	1475900	1465800	1454900	1416600
26	1325200	1309500	1292500	1273200	1259800	1283800	1388900	1538700	1475400	1464400	1454200	1415100
27	1324500	1309100	1291500	1272700	1260000	1287300	1393600	1538200	1476400	1462900	1452900	1413500
28	1324000	1308400	1291000	1272000	1259800	1290300	1399400	1538200	1476700	1461300	1452100	1412200
29	1324200	1308000	1290300	1271600	---	1292800	1405200	1537400	1476700	1459600	1451400	1410600
30	1324000	1307300	1289500	1270900	---	1294900	1411700	1536000	1477400	1457900	1450500	1409200
31	1323200	---	1288800	1270200	---	1297600	---	1535200	---	1456800	1449400	---
MAX	1354800	1322500	1306900	1288300	1269400	1297600	1411700	1543300	1534400	1477900	1457200	1448900
MIN	1323200	1307300	1288800	1270200	1259800	1258200	1300600	1418900	1475400	1456800	1449400	1409200
(+)	6058.05	6056.77	6055.27	6053.74	6052.88	6055.99	6064.92	6073.88	6069.77	6068.27	6067.73	6064.73
(++)	-33400	-15900	-18500	-18600	-10400	+37800	+114100	+123500	-57800	-20600	-7400	-40200

CAL YR 2000 MAX 1582700 MIN 1288800 (++) -212100
WTR YR 2001 MAX 1543300 MIN 1258200 (++) +52600

(+) Elevation, in feet, at end of month
(++) Change in contents, in acre-feet

09355500 SAN JUAN RIVER NEAR ARCHULETA, NM

LOCATION.--Lat 36°48'05", long 107°41'51", in NW$^1/_4$NE$^1/_4$ 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 mi^2, 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 and crest-stage gage with satellite telemetry. 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) 7.0 mi upstream except for minor inflow from 30 mi^2 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 Bureau of Reclamation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	802	508	514	522	513	501	477	511	4280	571	858	692
2	802	510	511	522	513	498	498	511	4280	565	832	689
3	800	512	520	522	516	490	502	523	4280	562	832	690
4	801	512	521	520	513	489	521	517	4280	559	835	690
5	801	512	523	520	513	489	520	511	4290	553	835	686
6	799	512	516	474	511	489	532	520	4290	536	831	770
7	800	510	511	529	511	498	530	530	4290	533	889	812
8	807	512	519	521	524	497	532	529	4300	531	829	796
9	807	513	521	519	508	494	532	520	4320	386	832	789
10	737	518	518	519	507	496	536	521	4320	267	837	788
11	660	527	521	518	507	490	532	524	4320	279	835	790
12	662	526	520	515	505	492	530	517	4340	270	846	880
13	657	529	521	513	506	490	525	518	4370	265	674	908
14	656	529	519	510	507	491	528	517	4390	262	531	878
15	656	529	525	508	507	489	531	820	4380	368	530	877
16	631	526	527	510	510	489	530	1380	4380	526	529	878
17	607	526	524	507	510	489	529	1820	4380	507	531	880
18	608	529	523	506	511	485	530	2340	4390	505	533	879
19	610	530	524	507	507	485	526	2620	4140	504	534	878
20	609	531	524	507	506	482	525	2600	3450	504	534	877
21	613	532	525	508	506	482	527	2850	2610	504	548	880
22	618	533	526	507	500	481	535	3520	2320	502	534	874
23	581	534	530	506	516	475	531	4510	2180	571	539	875
24	519	531	531	506	513	481	531	5000	2190	620	535	814
25	507	530	531	506	506	477	514	4800	1880	620	528	771
26	504	531	528	502	506	474	510	5010	1370	761	529	771
27	506	531	524	511	508	462	510	5010	872	854	530	824
28	512	526	521	512	503	468	513	5010	562	844	530	877
29	507	513	520	507	---	472	513	5010	570	843	531	880
30	508	514	525	508	---	472	512	4810	569	846	652	880
31	508	---	525	513	---	477	---	4270	---	867	718	---
TOTAL	20195	15676	16188	15855	14263	15044	15662	68649	100593	16885	20661	24573
MEAN	651	523	522	511	509	485	522	2214	3353	545	666	819
MAX	807	534	531	529	524	501	536	5010	4390	867	889	908
MIN	504	508	511	474	500	462	477	511	562	262	528	686
AC-FT	40060	31090	32110	31450	28290	29840	31070	136200	199500	33490	40980	48740
(+)	2200	0	0	0	0	2300	11300	19900	30800	30200	22700	17700
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2001, BY WATER YEAR (WY)												
MEAN	855	871	980	1028	1032	1113	1355	1791	1915	1209	997	957
MAX	2131	3018	2886	2768	2382	4216	4768	4962	5169	5126	3508	3241
(WY)	1966	1966	1966	1986	1987	1993	1979	1985	1979	1979	1973	1999
MIN	298	240	162	115	149	207	244	279	300	320	353	338
(WY)	1963	1963	1963	1963	1963	1964	1964	1967	1967	1967	1963	1963

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1963 - 2001	
ANNUAL TOTAL	241003		344244			
ANNUAL MEAN	658		943		[a]1175	
HIGHEST ANNUAL MEAN					2686	1987
LOWEST ANNUAL MEAN					280	1963
HIGHEST DAILY MEAN	4580	Jun 6	5010	May 26	6420	Jun 21 1965
LOWEST DAILY MEAN	437	Mar 28	262	Jul 14	30	Mar 12 1964
ANNUAL SEVEN-DAY MINIMUM	463	May 10	300	Jul 9	108	Jan 10 1963
MAXIMUM PEAK FLOW			5520	May 30	[b]18900	Jul 27 1957
MAXIMUM PEAK STAGE			6.65	May 30	[c]11.00	Jul 27 1957
INSTANTANEOUS LOW FLOW					8.0	Feb 28 1963
ANNUAL RUNOFF (AC-FT)	478000		682800		851500	
10 PERCENT EXCEEDS	809		2240		2640	
50 PERCENT EXCEEDS	518		528		647	
90 PERCENT EXCEEDS	486		497		410	

a Average discharge for 7 years (water years 1956-62), 1,304 ft^3/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 ft^3/s, June 20, 1965, gage height, 4.75 ft.
(+) Discharge, in acre-feet, through Navajo irrigation tunnel.

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 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
27...	1315	6.5	13.5	624	531	218	14.5	144	9.0	6	71	.020	.08
MAR													
19...	1330	6.0	9.0	627	483	253	11.4	112	8.2	.0	96	<.010	.03
APR													
23...	1500	9.5	15.5	621	531	259	11.6	125	8.5	.0	91	<.010	.02
AUG													
08...	1610	12.0	25.0	625	824	250	11.2	127	8.7	5	83	.018	.03

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
NOV													
27...	<.010	<.20	<.20	<.020	<.020	<.020	<.010	87	26.8	4.87	11.0	.5	1.57
MAR													
19...	<.010	.26	.37	<.020	.030	<.020	<.010	95	29.1	5.32	14.3	.6	1.79
APR													
23...	<.010	<.20	.20	<.020	<.020	<.020	.010	98	29.9	5.56	14.5	.6	1.77
AUG													
08...	<.010	<.20	.23	<.020	.020	<.020	<.010	93	28.4	5.37	11.9	.5	1.91

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)
NOV													
27...	3.0	35.6	.2	10.3	<2.0	63.9	<.06	19	<.04	<.8	.07	1.1	<10
MAR													
19...	2.6	41.3	.2	9.7	<2.0	72.9	<.06	16	<.04	<.8	.07	1.5	<10
APR													
23...	2.9	43.0	.2	10.2	<2.0	72.7	<.06	17	<.04	<.8	.09	1.2	<10
AUG													
08...	2.4	41.4	.2	9.8	<2.0	71.5	<.06	19	<.04	<.8	.05	.7	<10

DATE	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
NOV													
27...	<.08	2.3	.8	.57	<1.0	<1	.07	<1	<2.4	<2.6	.36	68	134
MAR													
19...	<.08	4.0	.9	.46	<1.0	2	.07	<1	<2.4	<2.6	.47	78	152
APR													
23...	<.08	2.6	1.0	.46	<1.0	2	.11	1	<2.4	<2.6	.48	75	153
AUG													
08...	<.08	1.2	.9	<.06	<1.0	<1	.09	2	<2.0	<3.0	.53	76	147

09355500 SAN JUAN RIVER NEAR ARCHULETA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
NOV				
27...	--	<.14	--	74
MAR				
19...	54	<.14	20	84
APR				
23...	92	<.01	19	85
AUG				
08...	--	<.01	--	82

DATE	TIME	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
APR			
23...	1500	5.3	330

Remark codes used in this report:
< -- Less than

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 mi^2, approximately.

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 with satellite telemetry. 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 those estimated, 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).

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred in October 1911 at this location.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	277	497	320	247	e280	324	753	3140	3700	1320	605	422
2	255	456	316	269	e260	308	873	3680	4040	1350	745	389
3	258	411	284	280	e230	299	985	3500	3920	1330	702	377
4	257	419	270	299	247	267	1020	2830	3730	1290	687	390
5	276	397	298	292	223	264	1060	2260	2980	1210	685	390
6	288	400	306	295	256	333	1160	1960	2720	1190	624	352
7	279	377	304	247	290	404	1020	1830	3170	1160	672	322
8	263	339	306	231	331	651	869	1910	3150	1100	781	325
9	274	344	321	260	301	604	795	2270	2970	1050	922	300
10	322	363	273	279	276	654	808	2580	3210	1010	955	298
11	363	375	270	281	234	491	803	2860	3210	982	929	302
12	504	355	302	266	225	424	771	3520	2960	940	864	309
13	527	337	324	279	259	464	742	4060	2520	913	857	309
14	445	355	325	234	284	505	697	4760	1970	927	968	354
15	364	376	316	248	273	484	669	4930	1580	935	1020	350
16	339	393	319	267	251	459	772	5100	1490	884	837	325
17	345	376	266	289	267	505	1040	4920	1630	760	790	342
18	342	357	251	e266	257	430	1390	4470	1780	667	706	367
19	345	315	e320	e260	253	444	1770	4260	1860	604	650	364
20	342	315	e340	e262	295	569	1890	4020	1900	569	605	336
21	334	342	e350	e264	306	693	1790	4190	1800	548	596	320
22	322	358	348	e264	329	862	1490	3540	1800	496	619	315
23	430	390	306	283	327	934	1270	3380	1750	463	675	299
24	626	368	263	275	311	985	1200	3680	1630	474	660	289
25	555	336	249	273	258	919	1290	4050	1620	484	589	286
26	487	328	297	263	252	966	1690	3900	1590	488	543	271
27	442	293	287	274	333	991	2080	4000	1610	525	510	259
28	598	327	284	250	355	912	2600	4310	1480	477	478	258
29	569	323	300	214	---	868	2850	4070	1420	409	450	247
30	496	316	297	259	---	813	2880	3450	1410	387	444	239
31	497	---	250	264	---	776	---	3490	---	432	407	---
TOTAL	12021	10938	9262	8234	7763	18602	39027	110920	70600	25374	21575	9706
MEAN	388	365	299	266	277	600	1301	3578	2353	819	696	324
MAX	626	497	350	299	355	991	2880	5100	4040	1350	1020	422
MIN	255	293	249	214	223	264	669	1830	1410	387	407	239
AC-FT	23840	21700	18370	16330	15400	36900	77410	220000	140000	50330	42790	19250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2001, BY WATER YEAR (WY)

MEAN	471	345	271	248	261	432	1083	2539	3008	1265	646	538
MAX	2479	1068	555	388	467	1043	2192	5686	6145	3710	2372	1922
(WY)	1942	1942	1987	1973	1987	1993	1985	1941	1957	1957	1999	1970
MIN	169	158	159	169	151	141	273	449	458	223	222	155
(WY)	1957	1934	1957	1954	1964	1977	1977	1977	1934	1934	1996	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1934 - 2001	
ANNUAL TOTAL	234592		344022			
ANNUAL MEAN	641		943		935	
HIGHEST ANNUAL MEAN					1713	1941
LOWEST ANNUAL MEAN					340	1977
HIGHEST DAILY MEAN	3820	May 25	5100	May 16	11800	Jun 19 1949
LOWEST DAILY MEAN	168	Jan 31	214	Jan 29	.00	Nov 1 1933
ANNUAL SEVEN-DAY MINIMUM	191	Aug 6	251	Jan 29	.00	Nov 1 1933
MAXIMUM PEAK FLOW			5750	May 16	13100	Jun 19 1949
MAXIMUM PEAK STAGE			8.80	May 16	11.45	Jun 19 1949
INSTANTANEOUS LOW FLOW			196	Jan 9	63	Jan 21 1935
ANNUAL RUNOFF (AC-FT)	465300		682400		677200	
10 PERCENT EXCEEDS	1640		2850		2440	
50 PERCENT EXCEEDS	345		444		413	
90 PERCENT EXCEEDS	226		263		210	

e Estimated

09364500 ANIMAS RIVER AT FARMINGTON, NM

LOCATION.--Lat 36°43'17", long 108°12'05", in $SW^1/_4SW^1/_4$ 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 mi^2, 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 with satellite telemetry. Elevation of gage is 5,280 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 1, 1905, non-recording gage at old bridge 0.1 mi upstream at different datum. Sept. 17, 1912, to Oct. 4, 1938, water-stage recorder at site 0.8 mi downstream at lower datums (datum lowered 2.0 ft Aug. 15, 1927, and raised 0.2 ft Dec. 16, 1929). Oct. 5, 1938, to Nov. 1, 1973, at site 900 ft downstream at datum 1.74 ft lower.

REMARKS.--Water-discharge records good except for those estimated, which are fair. 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 ft^3/s).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	490	349	251	253	337	537	2270	3230	995	275	218
2	128	477	347	253	272	320	576	2720	3530	979	437	217
3	124	456	347	276	272	311	685	2830	3540	974	462	185
4	139	454	320	282	287	307	702	2380	3360	940	452	173
5	124	453	307	289	264	283	754	1790	2770	868	422	187
6	126	445	313	296	257	282	817	1470	2300	837	507	164
7	138	436	301	292	288	347	785	1280	2550	821	468	150
8	161	425	298	263	333	432	642	1230	2710	778	527	134
9	162	416	320	259	329	555	567	1450	2570	750	626	137
10	190	435	315	291	294	514	521	1800	2660	723	744	122
11	274	457	291	301	282	503	529	2060	2780	715	727	127
12	365	450	283	291	261	401	507	2470	2570	661	918	125
13	422	421	304	293	257	384	481	3020	e2180	643	1200	127
14	406	396	310	288	292	414	435	3750	e1620	631	1040	132
15	374	422	308	242	291	418	417	4490	e1110	647	1190	144
16	321	448	295	253	280	400	423	4600	e1080	655	740	142
17	301	401	289	282	275	417	555	4700	e1190	563	636	150
18	301	381	246	273	294	406	814	4350	e1290	474	571	193
19	300	373	255	266	275	372	1180	3960	1390	399	483	186
20	308	343	327	274	277	410	1410	3850	1450	356	426	173
21	331	357	292	274	307	494	1390	3790	1420	346	393	169
22	353	391	294	248	323	631	1160	3460	1370	346	414	154
23	515	481	285	262	337	697	936	3150	1350	308	408	147
24	618	415	288	297	324	780	793	3420	1260	271	455	133
25	556	387	269	290	308	732	752	3740	1220	266	394	115
26	500	368	268	281	282	747	984	3680	1200	270	351	111
27	467	361	291	291	303	799	1350	3570	1230	265	318	96
28	485	343	278	297	349	748	1730	3810	1150	273	288	89
29	557	359	279	264	---	696	2110	3690	1070	229	255	86
30	502	353	285	241	---	643	2100	3230	1060	185	234	83
31	483	---	280	264	---	565	---	3070	---	183	223	---
TOTAL	10170	12394	9234	8524	8166	15345	26642	95080	58210	17351	16584	4369
MEAN	328	413	298	275	292	495	888	3067	1940	560	535	146
MAX	618	490	349	301	349	799	2110	4700	3540	995	1200	218
MIN	124	343	246	241	253	282	417	1230	1060	183	223	83
AC-FT	20170	24580	18320	16910	16200	30440	52840	188600	115500	34420	32890	8670

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2001, BY WATER YEAR (WY)

MEAN	434	356	297	276	299	455	989	2412	2973	1128	517	448
MAX	2726	1140	609	554	675	1242	2489	6126	6930	3609	2581	2182
(WY)	1942	1942	1987	1920	1920	1997	1979	1920	1920	1957	1999	1925
MIN	87.0	152	174	163	162	112	54.1	195	235	46.4	40.2	10.6
(WY)	1957	1935	1964	1996	1964	1977	1977	1977	1934	1934	1996	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1914 - 2001	
ANNUAL TOTAL	209032.5		282069			
ANNUAL MEAN	571		773		883	
HIGHEST ANNUAL MEAN					1734	1920
LOWEST ANNUAL MEAN					239	1977
HIGHEST DAILY MEAN	3880	May 25	4700	May 17	11000	Jun 19 1949
LOWEST DAILY MEAN	7.5	Aug 9	83	Sep 30	.00	Aug 8 1996
ANNUAL SEVEN-DAY MINIMUM	18	Aug 4	102	Sep 24	.00	Aug 13 1996
MAXIMUM PEAK FLOW			5050	May 17	[a]25000	Jun 29 1927
MAXIMUM PEAK STAGE			8.06	May 17	9.32	Jun 18 1995
INSTANTANEOUS LOW FLOW			73	Sep 30	.00	Aug 8 1996
ANNUAL RUNOFF (AC-FT)	414600		559500		639700	
10 PERCENT EXCEEDS	1540		2220		2340	
50 PERCENT EXCEEDS	296		399		379	
90 PERCENT EXCEEDS	128		186		188	

e Estimated
a Site and datum then in use, from rating curve extended above 10,000 ft^3/s.

09364500 ANIMAS RIVER AT FARMINGTON, NM--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1940 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
28...	1355	4.5	12.0	632	347	639	12.4	116	8.7	5	154	.040	.07
MAR													
21...	0830	7.0	8.5	630	471	632	10.0	100	8.2	.0	172	.056	.12
APR													
24...	0945	9.5	12.0	629	790	398	9.2	98	8.2	.0	130	<.010	.07
AUG													
07...	0800	21.0	23.5	635	440	559	7.2	98	8.0	.0	163	.016	.06

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
NOV													
28...	<.010	<.20	.23	<.020	<.020	<.020	<.010	260	82.7	12.6	29.2	.8	2.64
MAR													
21...	<.010	.24	1.9	.350	.600	<.020	<.010	250	74.0	15.5	31.7	.9	2.97
APR													
24...	<.010	<.20	.40	.130	.080	<.020	<.010	180	57.6	8.89	12.0	.4	1.49
AUG													
07...	<.010	.22	1.0	.230	.160	<.020	<.010	230	73.5	10.2	26.0	.8	3.17

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)
NOV													
28...	17.8	170	.4	4.6	<2.0	60.6	<.06	89	.06	E.4	.21	1.9	<10
MAR													
21...	14.9	150	.4	6.5	<2.0	110	<.06	52	<.04	<.8	.23	1.6	<10
APR													
24...	7.5	75.8	.3	6.8	<2.0	73.8	<.06	21	<.04	<.8	.16	1.3	<10
AUG													
07...	17.0	120	.4	8.9	E1.2	149	<.06	52	<.04	E.4	.13	1.4	<10

DATE	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
NOV													
28...	.08	45.5	1.5	.41	<1.0	4	.13	5	<2.4	<2.6	1.68	134	401
MAR													
21...	.09	10.9	1.6	.15	<1.0	3	.14	3	<2.4	<2.6	1.63	141	382
APR													
24...	E.08	10.7	.9	<.06	<1.0	4	.15	23	<2.4	<2.6	1.20	107	235
AUG													
07...	<.08	1.7	1.7	<.30	<1.0	1	.22	5	<2.0	<3.0	1.65	133	341

09364500 ANIMAS RIVER AT FARMINGTON, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
NOV				
28...	89	<.14	38	127
MAR				
21...	93	<.14	1060	149
APR				
24...	38	<.01	382	117
AUG				
07...	99	.02	401	141

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	P,P' DDE DISSOLV (UG/L) (34653)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	LINDANE DIS-SOLVED (UG/L) (39341)
MAR													
21...	0830	U	<.010	<.002	<.011	<.015	E.002	<.018	<.003	<.005	<.003	<.005	<.004

DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	MALA-THION, DIS-SOLVED (UG/L) (39532)	PARA-THION, DIS-SOLVED (UG/L) (39542)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)
MAR													
21...	<.005	<.013	<.027	<.007	<.005	.010	<.002	<.004	<.006	<.002	<.009	<.009	<.011

DATE	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
MAR													
21...	<.034	<.035	<.006	<.002	<.002	<.016	<.002	<.005	<.010	<.020	<.017	<.004	<.021

DATE	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
MAR										
21...	<.002	<.011	<.041	<.005	<.003	<.010	<.007	<.023	<.050	<.006

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	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, SEDIMT, BED MA-TERIAL 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												
28...	1355	18	350	.4	5.6	7.6	17	13000	26	560	.01	120
APR												
24...	0945	1.2	630	--	--	--	--	--	--	--	--	--

Remark codes used in this report:
< -- Less than
E -- Estimated value

Null value remark codes used in this report:
U -- Analyzed for, not detected

09365000 SAN JUAN RIVER AT FARMINGTON, NM

LOCATION.--Lat 36°43'22", long 108°13'30", in $NW^1/_4SE^1/_4$ 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 mi^2, 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 with satellite telemetry. 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.--For 2000 water year records fair. Records fair except for those estimated, which are poor. 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.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1760	820	819	863	795	803	1600	1790	4750	729	562	1010
2	1700	787	856	864	857	797	1410	1760	4910	690	757	989
3	1600	792	860	821	837	774	1200	2020	4670	660	765	971
4	1530	779	859	785	830	770	1040	2550	4390	618	784	965
5	1590	784	856	806	812	795	1040	2880	4310	613	789	960
6	1450	786	829	801	822	800	1140	3080	4730	555	775	957
7	1240	771	823	806	806	895	1240	3010	3800	511	761	949
8	1240	769	845	820	797	877	1300	2970	3170	550	742	942
9	1240	721	843	819	832	841	1330	3220	2670	599	733	1010
10	1220	755	840	819	826	849	1370	2490	2560	608	747	979
11	1180	764	836	828	821	834	1460	2370	2450	610	754	915
12	1180	750	841	837	837	814	1360	2490	2300	602	781	847
13	1170	755	802	847	856	794	1310	2200	1460	587	973	814
14	977	761	803	848	808	810	1450	1830	1250	584	922	765
15	1050	758	781	845	800	780	1530	1610	1250	586	880	728
16	1050	740	788	848	800	750	1390	1450	1210	600	868	720
17	1050	754	816	860	797	751	1240	1570	1130	619	901	697
18	1050	739	838	843	816	767	1330	1630	1010	605	951	675
19	1060	737	848	856	787	759	1540	1440	948	602	1100	707
20	824	743	810	843	784	751	1380	1310	947	579	1150	878
21	799	724	806	828	763	878	1260	1230	883	559	1100	877
22	796	757	811	837	771	1040	1330	1540	841	543	1130	888
23	794	767	800	824	802	1040	1310	2200	782	533	881	879
24	794	771	792	796	818	918	1280	3260	771	519	859	953
25	780	760	807	807	812	855	1410	3820	792	505	848	943
26	776	768	857	911	838	841	1530	3040	742	504	887	959
27	810	777	821	914	810	822	1750	2330	733	583	845	943
28	857	792	829	849	786	871	2120	2220	746	568	850	939
29	868	782	855	820	785	973	2250	2870	736	559	927	934
30	831	772	839	800	---	1040	2070	3500	740	553	1020	936
31	797	---	834	792	---	1390	---	4330	---	553	961	---
TOTAL	34063	22935	25644	25837	23505	26679	42970	74010	61681	18086	27003	26729
MEAN	1099	764	827	833	811	861	1432	2387	2056	583	871	891
MAX	1760	820	860	914	857	1390	2250	4330	4910	729	1150	1010
MIN	776	721	781	785	763	750	1040	1230	733	504	562	675
AC-FT	67560	45490	50860	51250	46620	52920	85230	146800	122300	35870	53560	53020

CAL YR 1999 TOTAL 924312 MEAN 2532 MAX 9900 MIN 721 AC-FT 1833000
WTR YR 2000 TOTAL 409142 MEAN 1118 MAX 4910 MIN 504 AC-FT 811500

09365000 SAN JUAN RIVER AT FARMINGTON, NM--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	927	1000	914	807	804	913	1070	e3000	7030	1390	1250	741
2	912	976	906	815	819	890	1130	e3300	7490	1380	1160	714
3	905	951	906	838	839	848	1250	e3500	7580	1370	1070	685
4	940	946	881	845	862	861	1240	e3400	7370	1360	1070	667
5	960	938	860	854	844	836	1300	e2500	6650	e1200	1050	673
6	1000	921	881	861	832	844	1360	2000	5930	e1100	1240	655
7	946	906	900	813	862	936	1310	1810	6350	e1060	1130	760
8	1010	894	880	822	946	1060	1190	1740	6660	e1000	2780	725
9	1020	881	891	811	929	1140	1130	1960	6460	e940	1440	707
10	1030	892	901	851	869	1130	1130	e2300	6430	e960	1440	695
11	988	944	863	863	865	1130	1130	e2600	6700	951	1380	687
12	1070	921	849	850	849	1000	1100	e3000	6490	839	1400	703
13	1120	885	879	857	842	965	1070	e3600	6150	813	2020	808
14	1090	866	886	841	894	1000	1010	e4200	5740	774	1810	781
15	1050	902	883	788	863	1020	1020	e4900	5270	787	1460	777
16	1030	916	868	812	844	988	971	e5400	4990	957	1160	770
17	974	893	866	839	848	1070	1030	e5700	5080	934	1050	817
18	962	896	808	822	883	1050	1310	e5800	5130	837	981	889
19	962	890	818	796	868	976	1650	e5900	5220	752	891	834
20	966	858	845	804	855	1020	1840	e6100	4960	702	805	811
21	987	877	850	816	877	1110	1880	e5800	4010	689	746	812
22	1030	917	827	787	888	1240	1800	e6100	3720	672	781	788
23	1260	1050	845	817	904	1320	1550	e6300	3400	627	764	780
24	1320	942	853	860	905	1310	1350	e7100	3150	681	807	762
25	1160	912	833	853	881	1270	1300	e7600	3110	695	733	681
26	1090	888	834	837	862	1300	1540	e7900	2650	720	673	678
27	1070	884	856	858	918	1290	1860	e7800	2280	919	636	677
28	1060	892	842	866	954	1250	e2300	8050	e2000	927	598	754
29	1090	934	841	824	---	1220	e2900	7980	e1600	877	581	761
30	1010	923	853	791	---	1160	e2800	7620	1460	830	555	762
31	984	---	847	816	---	1090	---	6580	---	796	749	---
TOTAL	31923	27495	26766	25714	24406	33237	43521	151540	151060	28539	34210	22354
MEAN	1030	916	863	829	872	1072	1451	4888	5035	921	1104	745
MAX	1320	1050	914	866	954	1320	2900	8050	7580	1390	2780	889
MIN	905	858	808	787	804	836	971	1740	1460	627	555	655
AC-FT	63320	54540	53090	51000	48410	65930	86320	300600	299600	56610	67860	44340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2001, BY WATER YEAR (WY)

MEAN	1205	1009	987	1008	1133	1561	2970	5022	5441	2209	1332	1190
MAX	7271	3549	3381	3271	3032	5304	9133	18830	14990	8639	6044	4978
(WY)	1942	1987	1966	1986	1987	1993	1932	1941	1941	1957	1999	1999
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1931 - 2001	
ANNUAL TOTAL	412684		600765			
ANNUAL MEAN	1128		1646		2090	
HIGHEST ANNUAL MEAN					5054	1941
LOWEST ANNUAL MEAN					728	1963
HIGHEST DAILY MEAN	4910	Jun 2	8050	May 28	30000	May 14 1941
LOWEST DAILY MEAN	504	Jul 26	555	Aug 30	27	Aug 22 1939
ANNUAL SEVEN-DAY MINIMUM	535	Jul 20	646	Aug 25	37	Jul 1 1934
MAXIMUM PEAK FLOW			8700	May 28	[a]68000	Jun 29 1927
MAXIMUM PEAK STAGE			6.19	May 28	[b]10.20	Jun 29 1927
INSTANTANEOUS LOW FLOW			532	Aug 30	14	Aug 22 1939
ANNUAL RUNOFF (AC-FT)	818600		1192000		1514000	
10 PERCENT EXCEEDS	1800		4920		5080	
50 PERCENT EXCEEDS	886		938		1120	
90 PERCENT EXCEEDS	729		768		451	

e Estimated
a Site and datum then in use.
b From rating curve extended above 37,000 ft^3/s.

09365000 SAN JUAN RIVER AT FARMINGTON, NM

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962-82, 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV 29...	0800	5.0	3.5	626	945	511	11.2	107	8.3	.0	138	.050	.12
MAR 21...	1300	12.0	19.5	631	1200	560	9.2	104	8.2	.0	147	.100	.16
APR 24...	1400	14.0	22.0	632	1360	422	8.8	103	8.3	.0	129	.040	.09
AUG 07...	1100	18.0	24.0	638	1090	444	7.6	96	8.0	.0	123	<.010	.06

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
NOV 29...	<.010	<.20	.25	.110	.040	<.020	.020	190	59.0	9.18	29.7	.9	2.18
MAR 21...	<.010	.35	1.3	.400	.380	<.020	.020	200	60.5	11.1	36.3	1	2.56
APR 24...	<.010	.30	.40	.170	.100	<.020	.020	170	54.3	8.53	21.2	.7	1.75
AUG 07...	<.010	.20	E.20	.260	.950	.020	.010	150	48.9	6.60	30.2	1	2.58

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)
NOV 29...	12.3	121	.3	7.0	<2.0	62.7	<.06	87	E.03	<.8	.16	1.8	<10
MAR 21...	12.4	134	.3	8.1	<2.0	85.4	<.06	50	<.04	<.8	.19	1.5	M
APR 24...	8.1	91.0	.3	7.8	<2.0	69.0	<.06	25	<.04	<.8	.16	1.5	<10
AUG 07...	8.9	98.4	.3	9.3	E1.0	81.8	<.06	34	<.04	<.8	.08	1.3	<10

DATE	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
NOV 29...	E.07	17.3	1.2	1.24	<1.0	4	.07	3	<2.4	<2.6	1.14	113	309
MAR 21...	E.07	16.3	1.5	.42	<1.0	2	.12	3	<2.4	<2.6	1.40	120	340
APR 24...	E.06	8.8	1.0	<.06	<1.0	4	.15	19	<2.4	<2.6	1.15	106	257
AUG 07...	<.08	.1	1.6	<.06	<1.0	<1	.12	2	<2.0	<3.0	1.27	101	267

09365000 SAN JUAN RIVER AT FARMINGTON, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
NOV				
29...	27	<.14	172	120
MAR				
21...	72	<.14	897	126
APR				
24...	46	<.01	314	112
AUG				
07...	97	.05	3430	108

DATE	TIME	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
APR			
24...	1400	.7	340

Remark codes used in this report:
< -- Less than
E -- Estimated value

Null value remark codes used in this report:
M -- Presence verified, not quantified

09366500 LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE

LOCATION.--Lat 36°59'59", long 108°11'17", in NW$^1/_4$SE$^1/_4$ sec.10, T.32 N., R.13 W., La Plata County, CO, Hydrologic Unit 14080105, on right bank at Colorado-New Mexico State line, 0.5 mi downstream from Johnny Pond Arroyo, and 4.9 mi north of La Plata, NM.

DRAINAGE AREA.--331 mi^2.

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 and concrete flume. Datum of gage is 5,972.03 ft above sea level. See WSP 1713 or 1733 for history of changes prior to Mar. 17, 1934. Mar. 17, 1934 to July 1, 1996, water-stage recorder at same site, and at datum 3.12 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 15,000 acres, mostly upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	5.5	8.3	e8.0	e8.0	14	47	100	99	14	4.4	e8.0
2	4.5	4.5	8.2	e8.0	e8.0	13	59	115	79	16	3.9	e7.0
3	4.5	2.8	8.3	e8.0	e8.0	12	65	94	63	12	3.8	e6.0
4	4.8	3.7	8.8	e7.0	e9.0	11	57	74	72	11	5.3	e5.5
5	5.3	5.0	8.7	e7.0	e10	12	42	57	80	12	4.9	5.4
6	4.9	4.7	8.5	e7.0	10	12	43	47	72	9.6	16	5.4
7	4.5	4.3	8.6	e7.0	11	15	43	36	64	7.5	15	5.2
8	4.9	e3.3	8.3	e7.0	12	18	32	35	59	6.3	6.6	5.4
9	5.3	e3.3	9.9	e7.0	11	23	28	52	58	6.9	5.8	5.5
10	6.0	3.3	8.9	e7.0	e10	35	27	56	68	8.7	5.9	5.7
11	7.3	3.8	9.1	e7.0	9.7	31	28	71	58	6.6	6.9	5.5
12	6.3	e3.8	8.6	e7.0	9.7	27	28	89	51	5.7	6.0	5.3
13	4.6	e4.0	8.6	e6.0	9.8	22	26	109	41	5.1	8.1	5.2
14	4.6	e5.0	8.6	e6.0	10	21	25	156	40	6.0	10	5.5
15	4.5	e6.0	9.2	e6.0	10	22	24	134	31	6.4	7.0	5.6
16	4.5	e6.0	e9.0	e6.0	10	24	26	136	21	6.4	6.6	5.3
17	4.6	e6.0	e9.0	e6.0	9.7	24	32	124	16	5.0	e6.5	5.3
18	4.5	e7.0	e8.0	e6.0	12	20	45	87	15	4.7	e6.5	4.4
19	4.6	e7.0	e7.0	e6.0	16	19	74	74	14	3.8	e7.0	3.4
20	4.7	e7.0	e7.0	e6.0	16	25	78	78	12	3.4	e7.0	3.3
21	5.1	e7.0	e7.0	e6.0	18	40	65	68	17	3.1	e7.0	3.6
22	6.1	7.8	e8.0	e6.0	18	57	58	62	31	2.3	e5.0	3.6
23	8.1	11	e8.0	e7.0	16	65	49	88	29	3.1	e5.0	3.5
24	8.1	9.6	e8.0	e8.0	12	65	39	85	22	3.0	e5.5	3.4
25	5.6	8.4	e9.0	e9.0	11	59	35	93	26	3.2	e6.0	3.5
26	5.4	e8.0	e9.0	e9.0	12	64	35	97	25	4.1	e6.0	3.0
27	5.4	8.2	e8.0	9.6	17	53	48	95	35	4.8	e6.0	3.5
28	7.1	8.0	e8.0	9.7	18	57	68	73	25	4.0	e6.0	3.8
29	6.9	7.9	e8.0	9.1	---	55	83	60	15	3.4	e6.0	4.2
30	5.8	8.4	e8.0	e9.0	---	50	84	76	15	3.5	e5.5	4.3
31	5.3	---	e8.0	e8.0	---	43	---	107	---	4.1	e6.5	---
TOTAL	168.3	180.3	259.6	225.4	331.9	1008	1393	2628	1253	195.7	207.7	144.3
MEAN	5.43	6.01	8.37	7.27	11.9	32.5	46.4	84.8	41.8	6.31	6.70	4.81
MAX	8.1	11	9.9	9.7	18	65	84	156	99	16	16	8.0
MIN	4.5	2.8	7.0	6.0	8.0	11	24	35	12	2.3	3.8	3.0
AC-FT	334	358	515	447	658	2000	2760	5210	2490	388	412	286

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2001, BY WATER YEAR (WY)

MEAN	13.6	12.0	12.3	11.9	17.0	37.5	105	109	66.7	20.0	12.3	11.3
MAX	260	99.2	53.9	38.3	53.9	139	364	506	306	99.4	65.1	126
(WY)	1942	1942	1987	1942	1924	1997	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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1921 - 2001	
ANNUAL TOTAL	7786.2		7995.2			
ANNUAL MEAN	21.3		21.9		35.7	
HIGHEST ANNUAL MEAN					109	1973
LOWEST ANNUAL MEAN					4.44	1977
HIGHEST DAILY MEAN	179	Apr 10	156	May 14	1120	May 4 1941
LOWEST DAILY MEAN	1.7	Jul 22	2.3	Jul 22	[a].00	Jul 3 1922
ANNUAL SEVEN-DAY MINIMUM	2.2	Jul 18	3.1	Jul 19	.00	Jul 3 1922
MAXIMUM PEAK FLOW			205	May 14	[b]4750	Aug 24 1927
MAXIMUM PEAK STAGE			[c]4.38	May 14	11.36	Aug 24 1927
ANNUAL RUNOFF (AC-FT)	15440		15860		25850	
10 PERCENT EXCEEDS	62		65		85	
50 PERCENT EXCEEDS	8.7		8.3		13	
90 PERCENT EXCEEDS	3.5		4.4		1.8	

e Estimated.
a No flow at times in many years.
b From rating curve extended above 750 ft^3/s, on basis of slope-area measurement of peak flow, at datum then in use.
c Maximum gage height, 7.09 ft, Jan 22, backwater from ice.

09367500 LA PLATA RIVER NEAR FARMINGTON, NM

LOCATION.--Lat 36°44'23", long 108°14'51", in NE$^1/_4$SW$^1/_4$ sec.7, T.29 N., R.13 W., San Juan County, Hydrologic Unit 14080105, between two large culverts 30 ft upstream from U.S. Highway 64 in Farmington, and 800 ft upstream from mouth.

DRAINAGE AREA.--583 mi^2.

PERIOD OF RECORD.--March 1938 to current year.

REVISED RECORDS.--WSP 1243: 1944-45. WSP 1313: 1943-44(M), 1946-50(M). WSP 1733: 1951(M).

GAGE.--Water-stage recorder. Elevation of gage is 5,210 ft above National Geodetic Vertical Datum of 1929, from river-profile map. Prior to July 28, 1978, at elevation 1.0 ft higher. December 6, 1990 to July 1, 1993 at site 1,000 ft downstream at different datum. December 2, 1999 returned to site 1,000 ft downstream.

REMARKS.--Records fair except for those estimated, which are poor. Diversions for irrigation of about 24,000 acres upstream from station. Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred Sept. 5 or 6, 1909, and Oct. 5 or 6, 1911 and September 10, 1939.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	.26	3.0	11	10	20	17	3.5	11	1.2	.17	.39
2	.21	.25	3.2	e11	e11	17	20	46	6.7	2.5	.15	.45
3	.12	.25	2.4	13	e12	15	27	42	3.3	1.5	.53	1.2
4	.16	.25	1.5	11	e12	12	26	31	1.7	1.1	.39	1.0
5	.14	.25	1.8	e10	e13	12	18	18	2.0	1.3	.52	.91
6	.19	.26	5.3	e9.0	e14	12	8.2	6.9	2.6	1.0	.63	.94
7	.38	.25	6.2	e9.6	19	16	5.9	3.1	1.9	1.5	12	.97
8	2.3	.25	7.1	e10	22	9.9	3.4	2.6	1.9	1.4	1.0	.97
9	.43	.24	7.2	e11	21	12	2.5	2.4	1.7	1.5	.75	1.1
10	1.1	.23	7.7	e11	e12	18	2.3	3.9	1.7	1.3	13	.83
11	.31	.30	6.8	e10	e14	26	2.2	2.4	1.8	.16	1.6	.80
12	.36	.47	7.2	e11	e16	22	1.6	3.9	1.7	.16	2.1	.87
13	.36	.40	5.8	10	e16	18	1.6	13	1.6	.78	1.1	e.90
14	.36	1.4	4.8	7.8	e15	13	1.9	36	1.8	.72	12	e.89
15	.43	3.7	5.4	8.9	e14	13	1.6	50	1.5	3.0	.77	e.88
16	.94	3.2	5.4	e7.0	e13	14	1.4	38	1.7	.78	.74	e.87
17	.93	2.3	5.3	e6.0	15	17	1.8	40	1.6	.72	.92	e.86
18	.95	1.7	2.2	e5.0	e14	13	1.6	28	1.4	.54	.84	e.85
19	.96	2.9	2.5	7.8	19	10	.96	16	1.1	.65	.90	e.82
20	.98	3.6	e2.8	e8.0	e18	9.9	6.1	19	1.2	.91	.94	e1.2
21	1.2	8.9	e4.0	e10	19	18	7.4	8.3	.39	.92	1.0	e1.0
22	12	8.1	9.0	e12	21	34	4.7	3.3	.37	.96	1.1	e.96
23	52	11	10	e11	22	43	2.0	2.6	.10	1.0	1.0	e.92
24	48	7.7	14	e10	18	43	1.6	9.1	.23	.82	1.0	e.90
25	7.3	5.9	14	13	16	37	.84	7.5	.47	1.0	1.0	e.86
26	.61	5.2	7.9	15	16	37	.88	5.5	.97	1.1	.91	e.82
27	.21	4.9	6.4	14	19	36	1.3	8.2	.99	1.0	.86	e.78
28	.21	5.1	8.3	15	21	35	1.6	8.9	1.4	.82	.71	e.72
29	.21	4.5	8.2	14	---	31	4.6	2.7	1.4	.19	.32	e.60
30	.20	3.7	10	12	---	27	4.2	1.9	1.3	.16	.23	e.50
31	.21	---	10	7.9	---	21	---	3.8	---	.16	.29	---
TOTAL	134.28	87.46	195.4	322.0	452	661.8	180.18	467.5	57.52	30.85	59.47	25.76
MEAN	4.33	2.92	6.30	10.4	16.1	21.3	6.01	15.1	1.92	1.00	1.92	.86
MAX	52	11	14	15	22	43	27	50	11	3.0	13	1.2
MIN	.12	.23	1.5	5.0	10	9.9	.84	1.9	.10	.16	.15	.39
AC-FT	266	173	388	639	897	1310	357	927	114	61	118	51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2001, BY WATER YEAR (WY)

MEAN	20.0	13.1	14.5	18.3	24.1	35.7	86.6	65.0	33.4	8.98	12.0	10.9
MAX	537	141	73.1	100	89.2	166	408	783	252	117	64.5	170
(WY)	1942	1987	1987	1979	1979	1993	1980	1941	1957	1986	1957	1941
MIN	.000	.000	.000	.032	1.00	.16	.000	.000	.000	.000	.000	.000
(WY)	1947	1955	1956	1957	1957	1959	1951	1939	1939	1948	1960	1955

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1938 - 2001	
ANNUAL TOTAL	4306.87		2674.22			
ANNUAL MEAN	11.8		7.33		28.4	
HIGHEST ANNUAL MEAN					134	1941
LOWEST ANNUAL MEAN					.48	1956
HIGHEST DAILY MEAN	126	Apr 10	52	Oct 23	2370	May 13 1941
LOWEST DAILY MEAN	.09	Jul 13	.10	Jun 23	.00	Mar 1 1938
ANNUAL SEVEN-DAY MINIMUM	.10	Aug 5	.22	Oct 27	.00	Mar 1 1938
MAXIMUM PEAK FLOW			305	Oct 23	[a]5770	Aug 21 1990
MAXIMUM PEAK STAGE			5.48	Oct 23	[b]13.60	Aug 21 1990
INSTANTANEOUS LOW FLOW			.01	Jun 23	.00	Aug 1 1996
ANNUAL RUNOFF (AC-FT)	8540		5300		20570	
10 PERCENT EXCEEDS	25		18		63	
50 PERCENT EXCEEDS	3.2		2.6		4.5	
90 PERCENT EXCEEDS	.22		.36		.00	

e Estimated
a From rating curve extended on basis of slope-area measurement of peak flow.
b From floodmarks.

09368000 SAN JUAN RIVER AT SHIPROCK, NM

LOCATION.--Lat 36°46'53", long 108°41'23", in SE$^1/_4$ sec.25, T.30 N., R.18 W., San Juan County, Hydrologic Unit 14080105, on right bank 500 ft upstream from bridge on U.S. Highway 666 in Shiprock, 3.0 mi downstream from Chaco River, and at mile 215.0.

DRAINAGE AREA.--12,900 mi^2, 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 with satellite telemetry. Datum of gage is 4,890 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 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. Water-stage recorder, at site 4 mi upstream Sept. 1994.

REMARKS.--Water-discharge records good except for those estimated, 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.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e575	1070	887	786	810	959	1080	2830	6760	1150	874	531
2	e597	1030	897	765	806	891	1070	3170	7050	1050	1560	548
3	e584	1010	890	759	850	805	1240	3500	7230	1050	1280	524
4	e580	951	869	772	892	795	1280	3390	7030	1020	1110	493
5	e730	959	849	777	867	778	1360	2530	6620	959	971	450
6	e810	925	857	796	835	755	1380	2070	5920	872	1190	409
7	e890	906	914	755	813	834	1460	1720	5890	851	1100	448
8	e940	882	905	765	877	1100	1240	1540	6320	857	2960	579
9	e760	862	891	755	965	1120	1140	1660	6280	817	1570	569
10	e740	864	938	784	858	1040	1100	2100	6170	844	1670	522
11	e810	936	887	811	825	1190	1060	2430	6410	751	2150	458
12	e1010	999	854	815	809	991	1020	2680	6170	663	2130	442
13	991	959	871	823	801	903	974	3330	5870	624	2950	542
14	909	916	882	807	863	915	889	3840	5490	655	2380	627
15	880	919	882	756	853	931	897	4680	4980	613	1690	596
16	872	930	864	746	843	897	842	4900	4570	642	1310	589
17	864	942	840	796	837	946	846	5540	4590	754	982	611
18	791	911	806	791	874	1010	970	5780	4760	642	855	764
19	745	926	839	780	889	860	1490	5840	4790	538	711	740
20	756	899	834	774	847	876	1970	6020	4550	471	628	672
21	755	909	866	823	884	976	1940	5650	3880	514	574	651
22	893	967	794	782	881	1120	1810	6000	3440	496	509	607
23	1540	1130	749	758	896	1240	1550	6200	3170	448	509	582
24	2510	1050	767	814	904	1370	1260	7110	3110	386	570	564
25	1470	990	756	832	913	1300	1160	7530	3140	418	549	496
26	1230	957	754	809	871	1260	1170	7820	e2500	438	462	488
27	1160	958	760	821	938	1320	1660	7750	e2100	497	407	493
28	1060	929	793	843	973	1270	2160	7950	e1500	611	368	497
29	1080	947	819	815	---	1220	2780	8070	1240	605	333	525
30	1030	927	831	770	---	1190	2730	7790	1270	574	342	530
31	1110	---	827	774	---	1160	---	6800	---	586	406	---
TOTAL	29672	28560	26172	24454	24274	32022	41528	148220	142800	21396	35100	16547
MEAN	957	952	844	789	867	1033	1384	4781	4760	690	1132	552
MAX	2510	1130	938	843	973	1370	2780	8070	7230	1150	2960	764
MIN	575	862	749	746	801	755	842	1540	1240	386	333	409
AC-FT	58850	56650	51910	48500	48150	63520	82370	294000	283200	42440	69620	32820

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2001, BY WATER YEAR (WY)

MEAN	1261	1098	1060	1067	1206	1617	2968	4869	5337	2195	1364	1224
MAX	8370	3997	3420	3169	3314	5099	9275	19790	15540	8869	5731	4298
(WY)	1942	1987	1966	1966	1987	1993	1937	1941	1941	1957	1999	1999
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1935 - 2001	
ANNUAL TOTAL	392463		570745			
ANNUAL MEAN	1072		1564		2106	
HIGHEST ANNUAL MEAN					5324	1941
LOWEST ANNUAL MEAN					702	1963
HIGHEST DAILY MEAN	5100	Jun 6	8070	May 29	33300	Oct 14 1941
LOWEST DAILY MEAN	235	Jul 27	333	Aug 29	8.0	Aug 25 1939
ANNUAL SEVEN-DAY MINIMUM	255	Jul 25	407	Aug 26	13	Jul 24 1959
MAXIMUM PEAK FLOW			8420	May 29	80000	Aug 11 1929
MAXIMUM PEAK STAGE			12.32	May 29	14.02	Jun 19 1995
INSTANTANEOUS LOW FLOW			324	Aug 29	[a]8.0	Aug 25 1939
ANNUAL RUNOFF (AC-FT)	778500		1132000		1526000	
10 PERCENT EXCEEDS	2060		4560		5050	
50 PERCENT EXCEEDS	841		893		1130	
90 PERCENT EXCEEDS	422		567		460	

e Estimated
a Also occurred Aug. 26, 1939.

09368000 SAN JUAN RIVER AT SHIPROCK, NM--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1941-45, 1951 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
NOV													
28...	1125	3.5	10.0	637	899	583	12.5	113	8.5	1	135	.040	.10
MAR													
20...	1340	11.0	20.0	644	859	604	9.6	103	8.2	.0	148	.018	.05
APR													
25...	1500	17.0	30.0	644	1150	488	8.8	108	8.3	.0	135	<.010	.05
AUG													
07...	1600	23.0	30.5	646	1060	543	6.8	94	7.9	.0	135	.022	.08

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
NOV													
28...	<.010	<.20	.31	.220	.040	<.020	<.010	200	63.0	11.2	38.5	1	2.20
MAR													
20...	<.010	.29	.69	.490	.140	<.020	.010	210	64.2	12.4	44.8	1	2.85
APR													
25...	<.010	<.20	.40	.260	.130	<.020	.010	190	59.0	10.1	27.8	.9	1.93
AUG													
07...	<.010	.31	7.6	.880	2.30	.020	.010	120	40.7	4.48	62.0	2	4.08

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)
NOV													
28...	14.7	160	.3	6.8	<2.0	56.6	<.06	114	E.02	<.8	.16	2.3	<10
MAR													
20...	14.3	156	.4	7.9	<2.0	77.5	<.06	55	<.04	<.8	.18	1.5	<10
APR													
25...	10.1	115	.3	7.5	<2.0	74.2	<.06	43	<.04	<.8	.16	1.6	<10
AUG													
07...	10	127	.5	10.7	E1.7	67.0	<.06	51	<.04	<.8	.12	3.0	<10

DATE	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
NOV													
28...	E.06	3.9	1.6	1.13	<1.0	4	.09	2	<2.4	<2.6	1.64	112	365
MAR													
20...	<.08	3.7	1.7	.69	<1.0	3	.14	3	<2.4	<2.6	1.78	121	378
APR													
25...	E.05	3.5	1.4	E.04	<1.0	3	.19	15	<2.4	<2.6	1.51	111	299
AUG													
07...	<.08	.2	2.7	.19	<1.0	1	.20	4	E1.3	E2.1	2.15	111	330

09368000 SAN JUAN RIVER AT SHIPROCK, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
NOV				
28...	35	<.14	220	119
MAR				
20...	73	<.14	467	128
APR				
25...	29	<.01	289	118
AUG				
07...	96	.34	11000	125

DATE	TIME	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	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, SEDIMT, BED MA-TERIAL 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												
28...	1125	5.2	340	.1	4.9	4.7	9	9600	9.5	280	<.01	40
APR												
25...	1500	6.2	400	--	--	--	--	--	--	--	--	--

Remark codes used in this report:
< -- Less than
E -- Estimated value

09371010 SAN JUAN RIVER AT FOUR CORNERS, CO

LOCATION.--Lat 37°00'20", long 109°02'00", SE$^1/_4$NE$^1/_4$ 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 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,900 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Water-discharge records good except for those estimated, which are poor. Flow partly regulated by Navajo Reservoir (09355100).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	816	e1190	1040	e891	926	1270	1380	3200	6750	1230	644	557
2	738	1190	1020	e872	907	1180	1300	3520	6910	1110	1690	621
3	740	1180	1020	e863	993	1080	1410	4130	7310	1080	1700	643
4	751	1160	1000	e879	1020	982	1570	3960	7240	1100	1490	605
5	834	1160	994	e881	1070	977	1600	3320	6880	1050	1310	555
6	979	1160	962	e901	1030	924	1680	2760	6290	946	1210	504
7	1160	1120	989	e863	951	937	1800	2180	6220	883	1400	478
8	1060	1100	1090	e875	1020	1330	1630	1980	6470	895	2980	609
9	1210	1070	1080	e863	1180	1420	1440	1910	6410	874	1980	659
10	1090	1050	1080	e879	1090	1460	1350	2230	6280	909	2140	648
11	1120	1100	1090	926	987	1520	1350	2680	6580	896	2080	e600
12	1110	1250	1010	965	972	1410	1320	2890	6300	846	2120	e512
13	1320	1240	e1000	962	943	1230	1280	3670	6260	865	2810	e610
14	1300	1180	e983	956	944	1170	1180	4300	5900	1250	3090	e690
15	1220	1120	e993	913	1010	1160	1170	5480	5360	1700	2210	e666
16	1230	1160	e971	841	981	1160	1150	5390	4910	1080	1660	e681
17	1190	1170	e956	879	980	1180	1060	6120	4850	1180	1380	e970
18	1140	1120	e911	910	1020	1290	1170	6220	4980	1140	1120	801
19	1030	1110	e950	875	1090	1200	1600	6210	5050	862	952	883
20	1050	1100	e933	867	1060	1100	2160	6550	4880	690	788	809
21	1060	1060	e973	934	1050	1170	2310	6140	4360	622	754	750
22	1150	1120	e910	960	1100	1320	2300	6440	3570	660	629	733
23	2660	1250	e860	889	1100	1580	2070	6420	3280	599	653	678
24	3540	1420	e870	909	1120	1750	1780	7090	3120	485	622	659
25	1990	1230	e861	999	1130	1780	1590	7710	3120	455	716	625
26	e1600	1150	e873	980	1130	1690	1470	7970	2870	511	582	535
27	e1350	1140	e855	982	1110	1700	1880	7750	2470	475	494	566
28	e1240	1130	e890	1040	1190	1650	2410	7940	2160	683	441	538
29	e1280	1100	e923	1020	---	1580	2850	8340	1420	756	383	595
30	e1250	1100	e937	936	---	1530	3130	8000	1310	691	378	609
31	e1260	---	e929	860	---	1480	---	7040	---	676	372	---
TOTAL	39468	34630	29953	28370	29104	41210	50390	159540	149510	27199	40778	19389
MEAN	1273	1154	966	915	1039	1329	1680	5146	4984	877	1315	646
MAX	3540	1420	1090	1040	1190	1780	3130	8340	7310	1700	3090	970
MIN	738	1050	855	841	907	924	1060	1910	1310	455	372	478
AC-FT	78280	68690	59410	56270	57730	81740	99950	316400	296600	53950	80880	38460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2001, BY WATER YEAR (WY)

MEAN	1284	1357	1357	1424	1522	2023	2889	4720	5303	2363	1558	1433
MAX	2959	3732	3466	3300	3365	5454	7893	10220	10370	6846	6135	4852
(WY)	1987	1987	1987	1987	1987	1993	1979	1979	1979	1979	1999	1999
MIN	634	838	700	760	695	707	606	1030	1236	330	259	467
(WY)	1978	1980	1997	1990	1997	1990	1996	1981	1989	2000	1978	1989

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1978 - 2001	
ANNUAL TOTAL	480486		649541			
ANNUAL MEAN	1313		1780		2270	
HIGHEST ANNUAL MEAN					4180	1987
LOWEST ANNUAL MEAN					991	1990
HIGHEST DAILY MEAN	5210	Jun 6	8340	May 29	16400	May 29 1979
LOWEST DAILY MEAN	230	Jul 31	372	Aug 31	110	Aug 17 1978
ANNUAL SEVEN-DAY MINIMUM	254	Jul 25	458	Aug 26	126	Aug 14 1978
MAXIMUM PEAK FLOW			8770	May 29	16900	May 29 1979
MAXIMUM PEAK STAGE			4.79	May 29	[a]6.25	May 29 1979
INSTANTANEOUS LOW FLOW			358	Aug 29	110	Aug 19 1978
ANNUAL RUNOFF (AC-FT)	953000		1288000		1644000	
10 PERCENT EXCEEDS	2640		4860		5540	
50 PERCENT EXCEEDS	1000		1110		1380	
90 PERCENT EXCEEDS	447		660		704	

e Estimated
a Maximum gage height, 14.43 ft, Dec. 12, 1978, (backwater from ice).

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 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	HARDNESS TOTAL (MG/L AS CACO3) (00900)
NOV													
28...	0905	2.0	3.0	630	1130	27	610	10.8	95	8.4	2	133	220
MAR													
20...	0845	7.5	14.0	649	1090	65	697	9.6	94	8.2	.0	154	230
APR													
25...	1000	13.0	27.5	648	1610	130	536	8.6	96	8.2	.0	139	200
AUG													
08...	0930	21.0	25.0	650	1740	--	572	6.0	79	7.9	.0	142	140

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	TURBIDITY FIELD WATER UNFLTRD (NTU) (61028)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
NOV													
28...	66.2	12.8	43.2	1	2.28	15.5	177	.3	7.1	113	--	415	392
MAR													
20...	69.0	14.6	54.2	2	2.64	15.2	197	.4	8.1	127	600	471	437
APR													
25...	60.3	12.0	33.1	1	1.96	10.2	137	.3	7.8	114	180	366	331
AUG													
08...	45.6	5.85	61.3	2	4.21	10.6	136	.4	11.0	116	15000	385	345

DATE	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
NOV	
28...	124
MAR	
20...	133
APR	
25...	119
AUG	
08...	153

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 mi^2.

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.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.10	.07	.09	.06	5.1	1.1	.24	.06	.06	5.2	.02
2	.04	.04	.06	.10	.07	2.9	.77	.12	.07	.04	42	.04
3	.04	.03	.07	.10	.07	2.3	.59	.07	.03	.04	11	.09
4	.07	.04	.08	.10	.07	.89	.45	.06	.03	.08	1.0	.07
5	.07	.08	.10	.12	.06	1.4	.36	.05	.04	.11	.26	.07
6	.07	.05	.10	.14	.08	4.4	.84	.02	.06	.19	.10	.09
7	.08	.02	.11	.15	.10	7.7	2.7	.02	.06	.10	.05	.09
8	.11	.02	.13	.15	.13	21	1.1	.01	.07	.06	.08	.10
9	.12	.02	.13	.15	.10	12	.52	.01	.05	.06	4.8	.11
10	.17	.02	.13	.15	.08	12	.39	.01	.06	.06	.05	.16
11	.30	.04	.15	.14	.09	6.5	.52	.01	.04	.07	.00	.07
12	.72	.06	.14	.08	.09	3.2	.97	.01	.01	.06	.00	.17
13	.26	.04	.12	.07	.15	5.4	.66	.01	.01	.06	25	.20
14	.18	.04	.10	.06	.84	11	.41	.03	.01	.07	39	.15
15	.18	.04	.11	.06	1.2	27	.25	.03	.01	.06	2.1	.12
16	.18	.03	.10	.07	.62	30	.17	.01	.01	.06	.21	.09
17	.20	.02	.11	.07	.31	28	.10	.01	.02	.07	.02	.09
18	.18	.02	.09	.05	.25	8.6	.08	.01	.02	.06	.00	.07
19	.14	.02	.08	.05	.60	17	.09	.01	.02	.08	.00	.04
20	.15	.03	.08	.04	4.3	75	.11	.01	.02	.07	.00	.08
21	.14	.03	.08	.04	4.2	60	.11	.00	.03	.09	.00	.06
22	.19	.04	.08	.04	6.1	33	.12	.00	.04	.09	.00	.07
23	1.4	.09	.08	.06	5.8	21	.09	.00	.04	.07	.00	.10
24	1.0	.08	.09	.06	1.4	16	.10	.00	.05	.07	.00	.08
25	.17	.07	.09	.07	1.1	10	.14	.00	.04	.05	.00	.10
26	.12	.07	.11	.06	.95	8.6	.09	.00	.14	.06	.00	.06
27	.11	.07	.10	.07	2.9	5.4	.09	.00	.07	.05	.01	.05
28	.66	.07	.09	.07	5.1	4.6	.15	.00	.05	.03	.01	.06
29	.23	.08	.09	.08	---	3.8	.42	.00	.09	.03	.01	.07
30	.10	.07	.10	.07	---	3.0	.47	.00	.12	.06	.04	.13
31	.12	---	.09	.06	---	1.8	---	.05	---	.09	.01	---
TOTAL	7.55	1.43	3.06	2.62	36.82	448.59	13.96	0.80	1.37	2.15	130.95	2.70
MEAN	.24	.048	.099	.085	1.31	14.5	.47	.026	.046	.069	4.22	.090
MAX	1.4	.10	.15	.15	6.1	75	2.7	.24	.14	.19	42	.20
MIN	.04	.02	.06	.04	.06	.89	.08	.00	.01	.03	.00	.02
AC-FT	15	2.8	6.1	5.2	73	890	28	1.6	2.7	4.3	260	5.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2001, BY WATER YEAR (WY)

MEAN	.48	.79	.79	1.10	5.65	34.2	30.7	3.17	.32	.60	1.76	.63
MAX	3.78	6.24	3.76	18.9	57.1	166	187	33.8	1.33	3.52	14.0	6.04
(WY)	1999	1999	1984	1993	1995	1998	1973	1973	1973	1982	1997	1997
MIN	.028	.023	.019	.058	.084	.11	.12	.026	.031	.015	.038	.033
(WY)	1994	1978	1978	1976	1971	1972	1976	2001	1984	1993	1971	1983

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1970 - 2001	
ANNUAL TOTAL	123.14		652.00			
ANNUAL MEAN	.34		1.79		6.68	
HIGHEST ANNUAL MEAN					22.4	1980
LOWEST ANNUAL MEAN					.13	1976
HIGHEST DAILY MEAN	17	Mar 29	75	Mar 20	1030	Mar 6 1995
LOWEST DAILY MEAN	.01	Apr 10	.00	May 21	.00	Oct 1 1969
ANNUAL SEVEN-DAY MINIMUM	.01	Apr 10	.00	May 21	.00	Oct 1 1969
MAXIMUM PEAK FLOW			335	Aug 1	[a]1850	Mar 5 1995
MAXIMUM PEAK STAGE			7.59	Aug 1	[b]9.34	Mar 5 1995
INSTANTANEOUS LOW FLOW			.00	May 21	.00	May 21 2001
ANNUAL RUNOFF (AC-FT)	244		1290		4840	
10 PERCENT EXCEEDS	.35		3.1		8.4	
50 PERCENT EXCEEDS	.11		.08		.17	
90 PERCENT EXCEEDS	.04		.01		.05	

a From rating curve extended above 470 ft^3/s, maximum gage height, 7.90 ft, Mar. 12, 1985.
b Datum then in use.

09386950 ZUNI RIVER ABOVE BLACK ROCK RESERVOIR, NM

LOCATION.--Lat 35°06'03", long 108°45'03", in NE$^1/_4$ 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 mi^2, of which 13 mi^2 is noncontributing.

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.--Records fair except for those estimated, which are poor. Several observations of water temperature were made during the year. No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.54	.61	.99	.34	.00	.00	.00	1.3	.01
2	.00	.00	.00	.53	.51	.94	.39	.00	.00	.00	.02	.02
3	.00	.00	.00	.46	.63	.88	.27	.00	.00	.00	.00	.01
4	.00	.00	.00	.50	.81	.87	e.41	.00	.00	.00	.00	.00
5	.00	.00	.00	.66	1.1	.78	.47	.00	.00	.00	.00	.00
6	.00	.00	.00	.89	1.9	.72	.82	.00	.00	.00	.00	.00
7	.00	.00	.00	.80	5.4	.73	.60	.00	.00	.00	.00	.00
8	.00	.00	e.00	.91	7.7	.98	.34	.00	.00	.00	.00	.00
9	.00	.00	e.00	.97	3.2	1.2	.20	.00	.00	.00	.00	.00
10	.00	.00	.00	.91	2.3	1.8	.15	.00	.00	.00	.25	.00
11	.00	.00	.00	.71	2.1	2.4	.14	.00	.00	.00	4.5	.00
12	.00	.00	.00	.75	2.3	3.3	.16	.00	.00	.00	23	.00
13	.00	.00	.00	.70	3.6	4.6	.12	.00	.00	.00	20	.00
14	.00	.00	.00	.63	7.4	e2.0	.05	.00	.00	.00	13	.00
15	.00	.00	.00	.68	3.1	.85	.02	.00	.00	.00	5.4	.00
16	.00	.00	.00	.71	1.7	.65	.02	.00	.00	.00	.53	.00
17	.00	.00	.00	.78	1.4	.77	.00	.00	.00	.00	.08	.00
18	.00	.00	.00	.60	2.0	.98	.00	.00	.00	.00	.01	.00
19	.00	.00	.00	.39	2.4	.85	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.62	2.1	.70	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.58	1.3	.56	.00	.00	.00	.00	.00	.00
22	.00	.00	.01	.58	1.3	.54	.00	.00	.00	.00	.00	.00
23	.00	.00	.34	.77	1.4	.52	.00	.00	.00	.00	.00	.00
24	.00	.00	.23	1.1	1.3	.53	.00	.00	.00	.00	.00	.00
25	.00	.00	.44	1.4	1.3	.45	.00	.00	.00	.00	.00	.00
26	.00	.00	.39	.85	1.1	.42	.00	.00	.00	.00	.00	.00
27	.00	.00	.66	.93	1.0	.44	.00	.00	.00	.00	.00	.00
28	.00	.00	.59	.87	1.0	1.0	.00	.00	.00	.00	.00	.00
29	.00	.00	.56	.80	---	.60	.00	.00	.00	.00	6.4	.00
30	.00	.00	.53	.71	---	.28	.00	.00	.00	.00	.07	.00
31	.00	---	.56	.74	---	.37	---	.00	---	.00	.01	---
TOTAL	0.00	0.00	4.31	23.07	61.96	32.70	4.50	0.00	0.00	0.00	74.57	0.04
MEAN	.000	.000	.14	.74	2.21	1.05	.15	.000	.000	.000	2.41	.001
MAX	.00	.00	.66	1.4	7.7	4.6	.82	.00	.00	.00	23	.02
MIN	.00	.00	.00	.39	.51	.28	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	8.5	46	123	65	8.9	.00	.00	.00	148	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2001, BY WATER YEAR (WY)

MEAN	1.45	1.36	1.26	2.80	9.58	40.0	47.6	4.95	.17	2.58	5.46	2.27
MAX	12.6	13.7	5.87	41.9	73.4	263	308	65.3	1.97	25.6	23.6	17.5
(WY)	1984	1984	1984	1993	1980	1985	1973	1973	1979	1977	1977	1984
MIN	.000	.000	.013	.11	.33	.66	.009	.000	.000	.000	.000	.000
(WY)	1974	1971	1971	1977	1972	1971	1972	1997	1970	1971	1986	1979

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1970 - 2001	
ANNUAL TOTAL	105.76		201.15			
ANNUAL MEAN	.29		.55		9.92	
HIGHEST ANNUAL MEAN					46.9	1973
LOWEST ANNUAL MEAN					.33	2000
HIGHEST DAILY MEAN	2.5	Jan 31	23	Aug 12	1530	Mar 13 1985
LOWEST DAILY MEAN	.00	Apr 30	.00	Oct 1	.00	May 22 1970
ANNUAL SEVEN-DAY MINIMUM	.00	May 5	.00	Oct 1	.00	May 22 1970
MAXIMUM PEAK FLOW			227	Aug 12	[a]5200	Aug 4 1974
MAXIMUM PEAK STAGE			4.41	Aug 12	6.61	Aug 4 1974
INSTANTANEOUS LOW FLOW			[b].00	Oct 1	.00	Oct 1 1995
ANNUAL RUNOFF (AC-FT)	210		399		7190	
10 PERCENT EXCEEDS	1.1		1.1		9.4	
50 PERCENT EXCEEDS	.00		.00		.70	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
a From rating curve extended above 670 ft^3/s, on basis of slope-area measurements at gage heights, 4.05 ft, 3.95 ft, and 6.61.
b No flow most of year.

09430500 GILA RIVER NEAR GILA, NM

LOCATION.--Lat 33°03'40", long 108°32'12", in $NE^1/_4NW^1/_4$ 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, 7.0 mi northeast of Gila, and at mile 572.5.

DRAINAGE AREA.--1,864 mi^2.

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 with satellite telemetry. Datum of gage is 4,654.8 ft above National Geodetic Vertical Datum of 1929, (river-profile survey). Prior to Dec. 31, 1928, at site 5 mi upstream at different datum. Dec. 31, 1928, to Jan. 7, 1942, at site 200 ft upstream at datum 1.00 ft higher. Prior to Feb. 28, 1994 at datum 1.00 ft higher.

REMARKS.--Records good except for those estimated, which are poor. Diversions for irrigation of about 500 acres upstream from station. Several observations of water temperature were made during the year.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	303	141	80	75	342	236	173	57	37	72	92
2	31	249	140	79	73	358	230	168	54	35	121	81
3	30	215	139	79	72	310	228	167	53	38	157	74
4	27	259	138	77	73	272	227	167	51	36	174	68
5	25	980	135	76	75	239	221	163	48	33	123	65
6	25	1100	131	76	75	218	237	154	47	31	99	61
7	26	1090	126	78	75	218	261	142	45	48	83	58
8	27	858	125	80	83	249	240	131	39	87	75	56
9	31	673	122	86	95	269	230	124	37	66	72	53
10	35	591	120	92	96	287	224	121	36	58	69	51
11	56	669	117	92	97	291	221	118	e36	50	76	51
12	659	750	114	88	101	271	212	118	e35	45	78	52
13	1030	608	119	87	105	244	202	123	e33	41	103	78
14	494	500	117	85	111	225	188	131	e32	38	304	245
15	295	433	111	81	123	212	176	140	31	37	586	186
16	207	391	106	79	125	208	172	137	30	36	414	160
17	159	347	102	81	119	203	169	124	30	32	291	182
18	130	301	100	78	115	194	168	114	33	32	250	181
19	111	260	96	74	113	186	175	110	33	37	200	147
20	99	230	92	73	112	178	195	107	29	41	171	123
21	95	210	90	74	113	175	222	104	29	50	163	107
22	109	194	90	74	119	184	229	98	30	48	145	97
23	302	185	89	75	126	207	223	91	32	43	140	90
24	960	178	88	76	139	225	202	85	33	39	127	85
25	701	174	87	75	144	234	184	81	34	36	111	81
26	436	168	87	74	145	238	170	77	45	37	96	77
27	316	161	86	77	152	244	167	73	45	39	84	72
28	291	156	85	84	188	245	166	69	44	43	85	69
29	566	150	82	83	---	256	169	65	42	43	97	66
30	537	144	81	78	---	249	174	61	38	52	167	63
31	391	---	80	75	---	239	---	57	---	71	108	---
TOTAL	8228	12527	3336	2466	3039	7470	6118	3593	1161	1359	4841	2871
MEAN	265	418	108	79.5	109	241	204	116	38.7	43.8	156	95.7
MAX	1030	1100	141	92	188	358	261	173	57	87	586	245
MIN	25	144	80	73	72	175	166	57	29	31	69	51
AC-FT	16320	24850	6620	4890	6030	14820	12140	7130	2300	2700	9600	5690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2001, BY WATER YEAR (WY)

MEAN	120	104	166	172	233	316	219	141	59.5	64.7	143	150
MAX	994	726	1632	1810	1204	1049	903	716	249	225	901	960
(WY)	1973	1995	1979	1993	1993	1985	1973	1973	1992	1986	1988	1988
MIN	29.1	47.8	50.1	50.0	50.9	53.9	49.2	31.8	23.5	22.3	37.5	24.0
(WY)	1957	1951	1954	1954	1954	1971	1971	2000	1974	1971	2000	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1928 - 2001	
ANNUAL TOTAL	36272		57009			
ANNUAL MEAN	99.1		156		158	
HIGHEST ANNUAL MEAN					477	1979
LOWEST ANNUAL MEAN					47.8	1956
HIGHEST DAILY MEAN	1100	Nov 6	1100	Nov 6	23400	Dec 28 1984
LOWEST DAILY MEAN	18	Jun 16	25	Oct 5	15	Jul 16 1971
ANNUAL SEVEN-DAY MINIMUM	20	Jun 12	27	Oct 1	16	Jul 14 1971
MAXIMUM PEAK FLOW			1370	Nov 5	[a]35200	Dec 28 1984
MAXIMUM PEAK STAGE			3.94	Nov 5	[b]13.00	Dec 28 1984
INSTANTANEOUS LOW FLOW			24	Oct 5	14	Jul 15 1971
ANNUAL RUNOFF (AC-FT)	71950		113100		114300	
10 PERCENT EXCEEDS	188		289		313	
50 PERCENT EXCEEDS	56		108		74	
90 PERCENT EXCEEDS	25		37		40	

e Estimated
a From rating curve extended above 7,000 ft^3/s, on basis of slope-area measurement at gage height 12.5 ft, maximum gage height 17.2 ft, from floodmarks Sept. 29, 1941.
b From floodmarks.

09430600 MOGOLLON CREEK NEAR CLIFF, NM

LOCATION.--Lat 33°10'00", long 108°38'57", in $SE^1/_4SE^1/_4$ 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 mi^2.

PERIOD OF RECORD.--March 1967 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,440 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	67	22	5.8	9.5	48	45	18	1.9	.58	32	8.5
2	.00	51	21	5.5	10	44	46	17	1.6	.51	13	6.5
3	.00	46	19	5.4	11	39	45	15	1.3	1.4	7.4	5.3
4	.00	186	17	5.5	18	36	41	13	1.1	1.5	4.9	4.5
5	.00	260	16	5.3	30	35	39	12	1.1	.54	3.7	4.0
6	.00	220	15	5.7	37	37	50	10	.92	.28	2.9	3.1
7	.00	177	13	5.5	38	45	41	8.8	.60	.44	2.3	2.6
8	.00	138	13	5.4	36	50	39	8.2	.36	.79	2.6	2.2
9	.00	130	12	11	33	55	38	8.1	.37	1.8	2.6	1.9
10	.00	131	12	11	33	58	39	7.9	.00	2.3	2.8	1.5
11	1030	116	11	9.4	33	53	38	7.7	.00	1.4	12	1.3
12	1000	93	12	8.9	33	46	36	7.4	.00	.96	28	1.2
13	220	74	12	8.1	34	41	34	9.3	.00	.26	64	21
14	71	64	9.6	7.6	34	39	32	8.5	.00	.22	82	9.6
15	35	58	8.9	7.6	31	39	34	7.2	.00	.00	42	23
16	21	52	8.3	7.4	28	38	36	6.6	.00	.00	34	37
17	14	45	8.0	8.3	24	36	40	5.9	.00	.00	60	15
18	9.5	39	7.5	9.0	22	33	47	5.6	.00	.00	72	9.6
19	7.4	35	8.3	9.7	22	32	49	7.9	.00	.81	41	8.1
20	6.4	31	8.3	8.6	24	35	45	6.6	.00	1.8	26	6.6
21	8.4	30	7.5	7.2	29	45	39	5.7	.22	3.0	81	5.6
22	130	29	7.2	6.8	32	57	33	4.9	.74	3.6	50	4.9
23	737	29	6.9	7.2	34	60	27	4.4	.45	1.7	29	4.6
24	284	28	6.7	6.9	32	60	22	4.1	1.0	.86	18	4.4
25	125	25	6.5	7.1	30	62	21	3.9	.00	.44	12	3.8
26	67	23	6.5	7.3	29	64	24	3.6	4.0	.40	8.8	3.5
27	106	22	6.6	7.9	32	57	25	3.3	2.4	.91	7.2	3.2
28	417	21	6.6	8.0	49	52	26	3.0	1.4	1.9	5.9	2.9
29	237	21	6.0	8.2	---	46	24	2.7	.85	8.1	8.7	2.6
30	144	21	6.0	9.3	---	43	21	2.6	.92	5.3	14	2.3
31	96	---	5.8	9.5	---	44	---	2.3	---	5.6	11	---
TOTAL	4765.70	2262	326.2	236.1	807.5	1429	1076	231.2	21.23	47.40	780.8	210.3
MEAN	154	75.4	10.5	7.62	28.8	46.1	35.9	7.46	.71	1.53	25.2	7.01
MAX	1030	260	22	11	49	64	50	18	4.0	8.1	82	37
MIN	.00	21	5.8	5.3	9.5	32	21	2.3	.00	.00	2.3	1.2
AC-FT	9450	4490	647	468	1600	2830	2130	459	42	94	1550	417

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2001, BY WATER YEAR (WY)

MEAN	25.2	19.3	43.4	34.9	55.8	70.5	53.4	26.7	3.36	7.43	17.2	16.0
MAX	237	166	410	298	211	272	182	160	24.1	57.0	83.7	120
(WY)	1973	1979	1979	1993	1968	1978	1973	1992	1992	1996	1996	1975
MIN	.14	1.07	1.03	1.14	.94	1.33	.90	.034	.000	.000	1.02	.34
(WY)	1980	1971	1974	1971	2000	1971	1971	2000	1971	1980	1975	1987

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1967 - 2001	
ANNUAL TOTAL	7728.42		12193.43			
ANNUAL MEAN	21.1		33.4		31.3	
HIGHEST ANNUAL MEAN					97.0	1979
LOWEST ANNUAL MEAN					1.55	2000
HIGHEST DAILY MEAN	1030	Oct 11	1030	Oct 11	6000	Dec 19 1978
LOWEST DAILY MEAN	.00	May 5	.00	Oct 1	.00	Jun 17 1967
ANNUAL SEVEN-DAY MINIMUM	.00	May 5	.00	Oct 1	.00	Jun 23 1967
MAXIMUM PEAK FLOW			2120	Oct 11	[a]10800	Aug 12 1967
MAXIMUM PEAK STAGE			7.21	Oct 11	[b]13.70	Aug 12 1967
INSTANTANEOUS LOW FLOW			.00	Oct 1	.00	Oct 13 1995
ANNUAL RUNOFF (AC-FT)	15330		24190		22650	
10 PERCENT EXCEEDS	29		58		82	
50 PERCENT EXCEEDS	1.2		9.6		6.5	
90 PERCENT EXCEEDS	.00		.49		.34	

a From rating curve extended above 220 ft^3/s, on basis of slope-area measurements at peak flow.
b From floodmarks.

09430815 UPPER GILA DITCH NEAR GILA, NM

LOCATION.--Lat 33°01'19", long 108°32'32", in $SE^1/_4$,$SE^1/_4$,$SE^1/_4$, sec. 12, T.15 S., R.17 W., Catron County, Hydrologic Unit 15040002, on left bank 2,000 ft downstream from ditch heading, 5.5 mi northeast of Cliff, and 5.0 mi from Gila, NM.

PERIOD OF RECORD.--October 1999 to current year (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 4,600 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 46 ft^3/s, June 5, 2001, gage height 2.48 ft; no flow many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 46 ft^3/s, June 15, gage height 2.48 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	.00	---	---	---	---	---	---	34	21	27	22
2	11	.00	---	---	---	---	---	---	33	21	27	21
3	10	.00	---	---	---	---	---	---	31	21	29	21
4	10	.00	---	---	---	---	---	16	29	21	31	20
5	10	.40	---	---	---	---	---	20	26	21	28	20
6	10	.51	---	---	---	---	---	19	25	18	23	20
7	11	.48	---	---	---	---	---	14	24	18	23	19
8	12	.41	---	---	---	---	---	17	22	31	24	19
9	13	---	---	---	---	---	---	17	21	27	23	18
10	15	---	---	---	---	---	---	17	21	26	23	18
11	16	---	---	---	---	---	---	17	20	25	23	18
12	12	---	---	---	---	---	---	16	20	23	24	17
13	8.4	---	---	---	---	---	---	17	20	23	24	20
14	2.6	---	---	---	---	---	---	17	18	22	28	24
15	.75	---	---	---	---	---	---	18	18	21	35	24
16	.00	---	---	---	---	---	---	18	18	20	33	24
17	.00	---	---	---	---	---	---	17	18	19	30	24
18	.00	---	---	---	---	---	---	16	19	18	29	24
19	.00	---	---	---	---	---	---	15	19	19	27	23
20	.00	---	---	---	---	---	---	14	18	21	26	22
21	.00	---	---	---	---	---	---	14	17	22	26	22
22	.00	---	---	---	---	---	---	13	17	24	26	21
23	2.1	---	---	---	---	---	---	12	18	22	25	21
24	.81	---	---	---	---	---	---	11	19	21	24	21
25	.51	---	---	---	---	---	---	10	19	20	24	21
26	.33	---	---	---	---	---	---	17	23	20	23	21
27	.20	---	---	---	---	---	---	35	26	20	22	20
28	.28	---	---	---	---	---	---	34	25	21	22	20
29	.18	---	---	---	---	---	---	33	24	21	22	21
30	.00	---	---	---	---	---	---	33	23	22	23	20
31	.00	---	---	---	---	---	---	33	---	24	24	---
TOTAL	155.76	1.80	---	---	---	---	---	530	665	673	798	626
MEAN	5.02	.22	---	---	---	---	---	18.9	22.2	21.7	25.7	20.9
MAX	16	.51	---	---	---	---	---	35	34	31	35	24
MIN	.00	.00	---	---	---	---	---	10	17	18	22	17
AC-FT	309	3.6	---	---	---	---	---	1050	1320	1330	1580	1240

09430820 FORT WEST DITCH NEAR GILA, NM

LOCATION.--Lat 33°00'56", long 108°32'36", in NE¼,SE¼, NE¼, sec. 12, T.15 S., R.17 W., Grant County, Hydrologic Unit 15040002, on left bank 4.5 mi east of Gila, and 5.8 mi southeast of Cliff, NM.

PERIOD OF RECORD.--October 1999 to current year (irrigation season only).

GAGE.--Water-stage recorder with Parshall flume. Elevation of gage is 4,560 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 45 ft^3/s, Oct. 29, 1999, gage height 3.49 ft; no flow many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 33 ft^3/s, April 22, gage height 3.21 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	e.00	---	---	---	---	22	26	18	18	13	4.0
2	3.9	e.00	---	---	---	---	23	25	20	18	12	13
3	3.8	e.00	---	---	---	---	25	25	25	18	13	30
4	3.6	e.00	---	---	---	---	25	25	25	18	20	30
5	6.6	e.00	---	---	---	---	25	25	24	17	21	28
6	9.9	e.00	---	---	---	---	25	24	23	16	20	27
7	10	e.00	---	---	---	---	25	22	23	16	19	27
8	11	e.00	---	---	---	15	25	21	21	26	20	26
9	11	---	---	---	---	18	25	20	20	24	20	26
10	9.7	---	---	---	---	25	25	20	20	e.00	20	25
11	8.2	---	---	---	---	25	25	19	19	e.00	20	25
12	2.7	---	---	---	---	25	25	19	19	e.00	20	24
13	2.3	---	---	---	---	24	24	20	17	.00	21	27
14	2.1	---	---	---	---	24	27	21	17	.00	23	29
15	1.9	---	---	---	---	23	24	22	17	.00	2.7	28
16	e.00	---	---	---	---	23	24	22	16	.00	2.7	28
17	e.00	---	---	---	---	23	24	20	18	.00	2.5	27
18	e.00	---	---	---	---	23	24	19	17	.00	2.5	27
19	e.00	---	---	---	---	23	27	18	17	.00	2.5	24
20	e.00	---	---	---	---	23	31	18	16	.00	2.5	5.7
21	e.00	---	---	---	---	23	32	17	16	.00	2.4	21
22	e.00	---	---	---	---	23	33	16	15	.00	2.3	21
23	e.00	---	---	---	---	24	33	15	16	4.2	2.3	20
24	e.00	---	---	---	---	24	31	14	16	13	2.3	18
25	e.00	---	---	---	---	24	28	14	16	12	2.3	16
26	e.00	---	---	---	---	24	28	16	17	12	2.3	15
27	e.00	---	---	---	---	24	26	24	22	12	2.3	15
28	e.00	---	---	---	---	23	26	23	21	12	8.2	17
29	e.00	---	---	---	---	23	26	21	21	14	3.9	18
30	e.00	---	---	---	---	23	26	20	19	12	5.2	26
31	e.00	---	---	---	---	23	---	18	---	13	4.2	---
TOTAL	90.70	0.00	---	---	---	552	789	629	571	275.20	315.1	667.7
MEAN	2.93	.000	---	---	---	23.0	26.3	20.3	19.0	8.88	10.2	22.3
MAX	11	.00	---	---	---	25	33	26	25	26	23	30
MIN	.00	.00	---	---	---	15	22	14	15	.00	2.3	4.0
AC-FT	180	.00	---	---	---	1090	1560	1250	1130	546	625	1320

e Estimated

09430825 GILA FARMS DITCH NEAR GILA, NM

LOCATION.--Lat 32°59'00", long 108°34'13", in $SW^1/_4,NE^1/_4,NW^1/_4$, sec. 23, T.15 S., R.17 W., Grant County, Hydrologic Unit 15040002, on left bank 0.4 mile from State Highway 153 at Dominguez farms, 1.2 mi from Gila, NM and 2.5 mi from Cliff, NM.

PERIOD OF RECORD.--October 1999 to current year (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 4,550 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36 ft^3/s, Oct. 12, 2000, gage height 2.65 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 36 ft^3/s, Oct. 12, gage height 2.65 ft; no flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	7.6	---	---	---	---	13	7.5	11	5.3	3.6	11
2	2.9	6.8	---	---	---	---	13	6.9	11	4.9	3.2	9.1
3	3.1	4.6	---	---	---	---	13	6.1	9.3	5.4	7.9	6.3
4	3.2	1.2	---	---	---	---	13	6.0	8.7	5.7	18	9.9
5	4.0	1.3	---	---	---	---	13	5.7	8.9	5.5	12	8.2
6	4.2	1.3	---	---	---	---	13	5.3	8.4	5.5	11	7.3
7	5.3	1.1	---	---	---	---	14	4.7	7.7	5.3	11	6.2
8	4.6	---	---	---	---	---	13	4.1	7.4	6.5	10	5.1
9	4.4	---	---	---	---	---	13	8.5	5.6	13	9.3	3.4
10	4.4	---	---	---	---	14	12	12	3.3	15	5.7	3.2
11	8.3	---	---	---	---	15	12	12	1.8	12	2.3	3.6
12	17	---	---	---	---	14	12	12	3.2	11	2.0	3.4
13	8.2	---	---	---	---	14	12	12	7.8	10	1.9	9.6
14	6.6	---	---	---	---	13	11	12	6.6	11	1.7	16
15	5.8	---	---	---	---	13	9.8	12	6.5	8.7	5.8	12
16	5.1	---	---	---	---	13	9.4	12	6.0	8.1	14	12
17	1.7	---	---	---	---	13	8.9	12	5.5	5.9	13	12
18	.69	---	---	---	---	12	9.2	12	5.3	7.7	13	12
19	.62	---	---	---	---	12	9.6	12	5.2	8.7	12	11
20	2.3	---	---	---	---	10	10	12	5.7	9.8	12	11
21	4.9	---	---	---	---	9.2	11	12	6.1	11	12	10
22	1.4	---	---	---	---	12	12	11	5.8	12	12	10
23	1.4	---	---	---	---	13	11	11	5.2	11	11	9.6
24	1.7	---	---	---	---	13	10	11	5.1	9.1	11	6.7
25	1.2	---	---	---	---	14	8.9	11	5.6	9.0	10	9.4
26	4.2	---	---	---	---	14	7.2	8.7	6.4	8.4	8.3	11
27	7.4	---	---	---	---	14	6.9	8.6	6.5	8.0	6.7	9.9
28	8.3	---	---	---	---	14	5.1	11	6.3	6.2	5.7	9.0
29	9.6	---	---	---	---	14	5.5	11	5.9	5.3	3.5	7.9
30	9.3	---	---	---	---	14	7.5	11	5.6	4.1	2.1	5.1
31	8.4	---	---	---	---	13	---	11	---	3.5	3.3	---
TOTAL	152.31	23.9	---	---	---	287.2	319.0	304.1	193.4	252.6	255.0	260.9
MEAN	4.91	3.41	---	---	---	13.1	10.6	9.81	6.45	8.15	8.23	8.70
MAX	17	7.6	---	---	---	15	14	12	11	15	18	16
MIN	.62	1.1	---	---	---	9.2	5.1	4.1	1.8	3.5	1.7	3.2
AC-FT	302	47	---	---	---	570	633	603	384	501	506	517

09431500 GILA RIVER NEAR REDROCK, NM

LOCATION.--Lat 32°43'37", long 108°40'30", in W1/4 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 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1904 to February 1905 (gage heights only). May 1905 to December 1906, January to December 1907 and July to October 1908 (gage heights only). November 1908 to December 1910, January 1911 to January 1912 and May to June 1912 (gage heights only). August 1912 to September 1955, October 1962 to current year. Monthly or annual discharge only some periods, published in WSP 1313. Published as "near Cliff" 1904-7.

REVISED RECORDS.--WSP 1213: 1906, 1911-15, 1931, 1936-37, 1939, 1941, 1944, 1945(P), 1946(M), 1947. WSP 1283: Drainage area. WSP 1926: 1955. WDR NM-78-1: 1977.

GAGE.--Water-stage recorder with satellite telemetry. 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.--Records good except for those estimated, which are poor. Diversions for irrigation of about 5,000 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	526	206	128	132	273	324	163	51	38	99	168
2	20	425	203	128	128	408	314	165	51	34	95	140
3	20	364	207	128	130	415	310	161	50	32	141	112
4	19	1110	197	135	131	378	307	162	46	31	149	93
5	20	1940	181	142	163	337	305	160	43	26	135	88
6	16	1870	176	137	166	307	322	153	46	26	105	79
7	16	2470	188	137	167	310	353	154	33	32	89	76
8	16	1680	158	142	174	336	346	131	29	35	82	75
9	17	1270	153	155	181	369	317	104	34	35	67	68
10	18	1120	150	163	199	383	297	109	29	131	59	63
11	22	1210	167	157	204	408	288	125	30	79	83	61
12	869	1340	167	154	212	402	275	108	25	64	100	61
13	1760	1040	161	145	194	364	266	106	26	53	190	71
14	789	846	172	145	173	337	250	118	28	53	196	118
15	438	717	170	143	179	321	233	119	23	50	694	191
16	269	639	166	142	189	301	219	119	16	47	666	184
17	185	569	162	144	192	300	208	112	23	43	523	171
18	141	490	160	143	189	291	199	107	32	42	420	176
19	113	425	157	138	180	273	204	109	34	64	318	157
20	92	378	155	137	174	259	180	105	e32	55	255	141
21	73	344	153	138	173	251	195	100	e30	92	268	122
22	73	322	150	144	175	248	222	88	e29	75	259	107
23	531	307	154	138	192	277	234	94	e28	64	216	100
24	1770	290	149	142	196	305	221	90	e29	56	188	99
25	1160	279	146	144	217	312	205	84	e30	53	167	92
26	695	267	130	142	230	319	187	80	33	53	139	87
27	486	249	150	145	226	335	178	74	34	53	124	82
28	1610	234	142	151	222	356	169	63	36	55	121	81
29	1010	221	142	155	---	352	167	53	38	73	172	83
30	928	214	144	152	---	349	160	35	39	104	237	75
31	683	---	138	149	---	330	---	33	---	75	266	---
TOTAL	13879	23156	5054	4443	5088	10206	7455	3384	1007	1723	6623	3221
MEAN	448	772	163	143	182	329	248	109	33.6	55.6	214	107
MAX	1770	2470	207	163	230	415	353	165	51	131	694	191
MIN	16	214	130	128	128	248	160	33	16	26	59	61
AC-FT	27530	45930	10020	8810	10090	20240	14790	6710	2000	3420	13140	6390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2001, BY WATER YEAR (WY)

MEAN	207	168	328	311	403	487	307	189	60.7	76.8	213	233
MAX	1768	912	2200	2987	1692	1438	1155	1068	278	287	1182	1315
(WY)	1973	1995	1979	1993	1993	1978	1973	1992	1992	1986	1988	1975
MIN	27.6	55.1	60.0	64.9	53.8	40.0	41.2	25.1	12.0	15.6	21.6	22.2
(WY)	1974	1974	1981	1971	1971	1971	1971	1996	1974	1978	2000	1978

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1963 - 2001	
ANNUAL TOTAL	55215.4		85239			
ANNUAL MEAN	151		234		248	
HIGHEST ANNUAL MEAN					664	1993
LOWEST ANNUAL MEAN					57.0	2000
HIGHEST DAILY MEAN	2470	Nov 7	2470	Nov 7	34000	Dec 19 1978
LOWEST DAILY MEAN	9.5	Aug 23	16	Oct 6	3.6	Jul 20 1978
ANNUAL SEVEN-DAY MINIMUM	12	Aug 19	17	Oct 4	4.9	Jul 16 1971
MAXIMUM PEAK FLOW			3900	Oct 28	[a]48800	Dec 19 1978
MAXIMUM PEAK STAGE			9.32	Oct 28	[b]29.80	Dec 19 1978
INSTANTANEOUS LOW FLOW			15	Oct 7	2.2	Aug 5 1947
ANNUAL RUNOFF (AC-FT)	109500		169100		179700	
10 PERCENT EXCEEDS	295		411		534	
50 PERCENT EXCEEDS	62		153		99	
90 PERCENT EXCEEDS	19		34		34	

e Estimated
a From rating curve extended above 9,500 ft^3/s, on basis of slope-area measurement of peak flow.
b In gage well and 34.10 from floodmarks.

09431500 GILA RIVER NEAR REDROCK, NM--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968-97, water year 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
DEC													
13...	0830	8.0	8.0	660	165	338	10.2	100	8.3	.0	146	<.010	.02
MAR													
07...	0915	9.0	19.0	657	312	262	9.8	99	8.1	.0	109	.013	.03
JUN													
13...	1030	21.0	31.0	654	24	390	10.0	131	8.5	5	137	<.010	.06
AUG													
22...	1010	22.0	29.0	662	266	271	7.7	102	8.1	.0	119	<.010	.03

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
DEC													
13...	<.010	.32	<.20	.590	<.020	.030	.040	110	34.6	6.94	26.7	1	1.66
MAR													
07...	<.010	<.20	.28	.280	.060	<.020	.030	82	24.2	5.21	21.2	1	1.37
JUN													
13...	<.010	<.20	.23	.370	<.020	<.020	<.010	130	37.4	8.45	30.7	1	2.29
AUG													
22...	<.010	<.20	.90	.200	.480	.050	.040	89	27.3	4.99	18.3	.8	2.05

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)
DEC													
13...	10.8	30.6	2.0	35.6	<2.0	14.6	<.06	70	E.02	<.8	.10	1.1	<10
MAR													
07...	8.7	22.5	1.7	32.0	<2.0	10.5	<.06	32	<.04	<.8	.07	.9	<10
JUN													
13...	11.4	43.2	1.7	28.6	E1.5	16.2	<.06	42	<.04	E.5	.12	1.6	<10
AUG													
22...	7.8	19.7	1.6	35.0	E1.6	14.4	<.06	29	<.04	<.8	.10	2.0	<10

DATE	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
DEC													
13...	E.04	2.5	2.2	.50	<1.0	2	.08	4	E1.3	<2.6	1.45	120	223
MAR													
07...	<.08	1.4	1.7	.77	<1.0	<1	.43	6	<2.4	<2.6	.85	89	172
JUN													
13...	<.08	5.9	2.9	<.06	<1.0	2	.09	<1	<2.0	<3.0	1.77	121	238
AUG													
22...	<.08	2.0	2.0	.36	<1.0	<1	.08	4	<2.0	<3.0	.73	98	176

09431500 GILA RIVER NEAR REDROCK, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
DEC 13...	81	<.14	38	124
MAR 07...	45	<.14	98	93
JUN 13...	52	<.01	65	131
AUG 22...	96	.01	491	109

DATE	TIME	MOIS-TURE CONTENT DRY WT. (% OF TOTAL) (00495)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	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, SEDIMT, BED MA-TERIAL AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)
AUG 22...	1010	19	2.2	690	.1	11	5.0	14	8500	9.6	250	<.01	30

Remark codes used in this report:
< -- Less than
E -- Estimated value

09431503 Grandpa Harper Ditch near Redrock, NM

LOCATION.--Lat 32°43'36", long 108°41'15", in SE$^1/_4$,NW$^1/_4$,NW$^1/_4$, sec. 22, T.18 S., R.18 W., Grant County, Hydrologic Unit 15040002, on left bank 2 mi northeast of Redrock, 24 mi north of Lordsburg, and 27 mi west of Silver City.

PERIOD OF RECORD.--October 1999 to current year (irrigation season only).

GAGE.--Water-stage recorder with Parshall flume. Elevation of gage is 4,120 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for those estimated, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 23 ft^3/s, Aug. 29, 2001, gage height 2.98 ft; no flow many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 23 ft^3/s, Aug. 29, gage height 2.98 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	.00	---	---	---	---	3.8	13	.71	8.6	2.6	14
2	.27	.00	---	---	---	---	.53	12	.66	8.2	e1.0	.97
3	.20	.00	---	---	---	---	.31	12	.56	7.8	e.80	.71
4	.13	.00	---	---	---	---	.26	12	.45	8.3	e.50	.61
5	.12	.05	---	---	---	---	.25	12	.42	7.2	e.10	.59
6	.09	.01	---	---	---	.00	.33	12	.46	7.1	e.02	.52
7	.09	.13	---	---	---	4.9	.35	12	.39	8.4	.02	1.4
8	.11	.01	---	---	---	9.8	.36	12	.38	.66	.02	3.1
9	.14	.00	---	---	---	10	4.8	11	.54	.92	.01	3.0
10	.14	.00	---	---	---	10	8.8	11	5.3	1.3	.04	2.8
11	.15	.00	---	---	---	9.9	5.6	9.1	6.3	.50	.04	.73
12	.13	.00	---	---	---	9.7	2.2	2.3	6.2	.38	.01	.68
13	.02	.00	---	---	---	9.8	2.1	2.1	6.6	.32	.01	.62
14	.00	.00	---	---	---	9.7	2.2	1.9	4.9	.48	.01	.62
15	.00	.00	---	---	---	9.7	2.1	1.8	1.0	.70	.01	.61
16	.00	.00	---	---	---	9.1	2.2	1.5	1.1	.95	.00	.61
17	.00	---	---	---	---	6.9	2.3	1.4	1.0	.95	.00	.61
18	.00	---	---	---	---	1.4	2.3	1.2	.96	.83	.00	.61
19	.00	---	---	---	---	1.2	3.9	1.1	.92	.65	.00	.61
20	.02	---	---	---	---	1.0	7.7	1.1	.92	.50	.00	.61
21	.09	---	---	---	---	.99	5.5	1.2	.89	.38	.00	.61
22	.13	---	---	---	---	.92	1.5	1.0	.84	.36	.00	.59
23	.13	---	---	---	---	.72	1.6	5.2	.86	.43	.00	.52
24	.10	---	---	---	---	.69	1.6	7.2	.80	.81	.00	.52
25	.00	---	---	---	---	4.4	1.7	7.1	.62	4.1	.00	.52
26	.00	---	---	---	---	7.8	1.8	6.7	.61	4.4	.00	.48
27	.00	---	---	---	---	7.7	1.9	6.5	.67	4.4	3.2	.35
28	.06	---	---	---	---	7.6	2.7	6.0	7.8	4.3	11	.35
29	.01	---	---	---	---	7.6	5.6	5.6	8.7	4.4	14	.35
30	.00	---	---	---	---	7.3	12	4.9	9.0	4.7	14	.35
31	.00	---	---	---	---	7.2	---	3.9	---	4.3	19	---
TOTAL	2.40	0.20	---	---	---	156.02	88.29	197.8	70.56	97.32	66.39	38.65
MEAN	.077	.012	---	---	---	6.00	2.94	6.38	2.35	3.14	2.14	1.29
MAX	.27	.13	---	---	---	10	12	13	9.0	8.6	19	14
MIN	.00	.00	---	---	---	.00	.25	1.0	.38	.32	.00	.35
AC-FT	4.8	.4	---	---	---	309	175	392	140	193	132	77

e Estimated

09432000 GILA RIVER BELOW BLUE CREEK, NEAR VIRDEN, NM

LOCATION.--Lat 32°38'53", long 108°50'43", in SE$^1/_4$SW$^1/_4$ sec.18, T.19 S., R.19 W., Grant County, Hydrologic Unit 15040002, on left bank at head of canyon, 1.4 mi downstream from Blue Creek, 10 mi east of Virden, and 16 mi upstream from New Mexico-Arizona State line.

DRAINAGE AREA.--3,203 mi^2, excluding Animas River Basin.

PERIOD OF RECORD.--May to November 1914, March to September 1915, July 1927 to current year. July 1927 to May 1931 monthly discharge only, published in WSP 1313, computed as sum of flow at Virden Bridge, 9 mi downstream, and in Sunset Canal. Published as "Gila River near Duncan, AZ," 1914-15 and as "Gila River at Fuller's Ranch, near Duncan, AZ," 1931-38.

REVISED RECORDS.--WSP 1283: Drainage area. WSP 1313: 1929, 1931-32(M).

GAGE.--Water-stage recorder. Elevation of gage is 3,875 ft above sea level, from river-profile map. May 11, 1914, to Sept. 30, 1915, at site 6 mi downstream, 1,000 ft upstream from intake of Sunset Canal. June 1 to July 7, 1931, nonrecording gage at present site and datum. Since April 18, 1980, supplementary gage on left bank 800 ft downstream at same datum. Since June 1980, crest-stage gages at supplementary gage site. Since Nov. 1990, water-stage recorder at supplementary gage.

REMARKS.--Records good except for those estimated, which are fair. Station is above all Duncan Valley diversions. Diversions for irrigation of about 6,200 acres above station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	531	223	139	122	196	305	183	42	24	114	146
2	13	421	214	138	115	306	304	179	43	22	101	131
3	14	342	208	135	111	356	297	178	42	21	113	118
4	14	1150	205	133	106	359	295	178	40	21	119	108
5	14	1880	202	133	109	342	291	179	37	19	126	96
6	14	1800	196	132	117	316	300	180	36	19	109	87
7	13	2860	187	128	118	298	323	175	35	18	100	80
8	13	1920	185	127	121	297	331	169	30	21	90	71
9	13	1380	172	134	123	310	311	154	27	24	101	66
10	15	1080	169	139	127	324	292	143	25	70	83	61
11	17	1070	169	139	131	337	285	148	22	80	83	57
12	250	1250	168	140	133	351	274	149	19	66	90	55
13	1230	1070	166	139	135	333	268	147	17	55	159	56
14	749	858	164	139	137	299	259	153	16	49	172	102
15	459	725	165	137	141	282	245	156	16	49	265	158
16	323	646	163	137	146	270	234	151	15	48	620	167
17	257	579	161	137	154	263	226	145	15	46	470	167
18	220	512	158	135	157	261	221	139	14	43	509	164
19	194	449	155	133	156	255	219	138	15	50	374	156
20	168	402	153	131	152	243	205	134	17	55	305	140
21	147	363	153	130	152	230	206	127	18	74	280	128
22	130	333	150	128	153	220	223	119	19	72	269	113
23	518	308	149	128	157	228	245	111	19	68	224	103
24	1500	283	149	128	165	246	238	100	19	60	192	93
25	1240	268	147	128	173	266	223	92	19	43	178	86
26	823	259	147	126	182	265	210	86	20	39	164	79
27	612	251	146	123	189	283	202	80	21	43	145	73
28	1870	244	145	128	197	313	198	72	23	38	124	67
29	1170	239	144	132	---	321	191	63	22	55	128	63
30	905	233	142	129	---	326	185	54	24	72	e132	60
31	686	---	141	130	---	313	---	45	---	125	202	---
TOTAL	13604	23706	5196	4115	3979	9009	7606	4127	727	1489	6141	3051
MEAN	439	790	168	133	142	291	254	133	24.2	48.0	198	102
MAX	1870	2860	223	140	197	359	331	183	43	125	620	167
MIN	13	233	141	123	106	196	185	45	14	18	83	55
AC-FT	26980	47020	10310	8160	7890	17870	15090	8190	1440	2950	12180	6050
CFSM	.14	.25	.05	.04	.04	.09	.08	.04	.01	.01	.06	.03
IN.	.16	.28	.06	.05	.05	.10	.09	.05	.01	.02	.07	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2001, BY WATER YEAR (WY)

MEAN	163	139	248	308	355	427	270	150	50.7	75.4	204	201
MAX	1667	1040	2485	4158	1752	1464	1138	977	298	366	1164	1507
(WY)	1973	1995	1979	1993	1993	1973	1973	1992	1992	1986	1988	1975
MIN	5.39	34.9	47.6	64.0	61.1	45.1	27.7	13.5	4.43	4.85	9.35	4.89
(WY)	1957	1957	1957	1981	1971	1971	1955	1956	1956	1951	1951	1953

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1932 - 2001	
ANNUAL TOTAL	56915.8		82750			
ANNUAL MEAN	156		227		211	
HIGHEST ANNUAL MEAN					746	1993
LOWEST ANNUAL MEAN					43.1	1956
HIGHEST DAILY MEAN	2860	Nov 7	2860	Nov 7	[a]33100	Dec 19 1978
LOWEST DAILY MEAN	5.7	Jun 27	13	Oct 1	1.7	Jul 11 1956
ANNUAL SEVEN-DAY MINIMUM	6.1	Jun 22	14	Oct 1	2.0	Sep 26 1956
ANNUAL RUNOFF (AC-FT)	112900		164100		152700	
ANNUAL RUNOFF (CFSM)	.049		.071		.066	
ANNUAL RUNOFF (INCHES)	.66		.96		.89	
10 PERCENT EXCEEDS	290		361		454	
50 PERCENT EXCEEDS	70		147		93	
90 PERCENT EXCEEDS	13		23		23	

e Estimated
a From rating curve extended above 38,000 ft3/s, on basis of slope-area measurement of peak flow.

09442666 W.S. LANCY DITCH NEAR LUNA, NM

LOCATION.--Lat 33°51'46", long 108°52'24", in $SE^1/_4$,$SE^1/_4$,$SW^1/_4$, sec. 13, T.5 S., R.20 W., Catron County, Hydrologic Unit 15040004, on right bank 9.0 mi northeast of Luna, and 20 mi north of Reserve, NM.

PERIOD OF RECORD.--October 1999 to current year (irrigation season only).

GAGE.--Water-stage recorder with Parshall flume. Elevation of gage is 6,880 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 5.0 ft^3/s, Oct. 28, 2000, gage height 1.44 ft; minimum, no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 5.0 ft^3/s, Oct. 28, gage height 1.44 ft; minimum daily discharge, 0.28 ft^3/s, Nov. 3, gage height 0.41 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.55	.31	---	---	---	---	1.9	1.1	1.1	.87	1.6	.71
2	.82	.29	---	---	---	---	1.8	1.0	1.0	.87	1.1	.66
3	.74	.28	---	---	---	---	1.8	.92	1.2	.87	1.3	.66
4	.73	1.1	---	---	---	---	1.7	.93	1.1	.83	1.1	.65
5	.71	1.0	---	---	---	---	1.7	.94	1.1	.76	1.3	.69
6	.63	.82	---	---	---	---	2.5	.89	1.1	.82	1.2	.64
7	.67	---	---	---	---	---	2.3	.82	1.1	1.1	1.1	.62
8	.64	---	---	---	---	---	2.2	.84	1.1	1.2	1.1	.62
9	.62	---	---	---	---	---	2.1	.86	1.1	1.2	1.3	.60
10	.64	---	---	---	---	---	2.1	.89	1.1	1.1	1.2	.62
11	1.1	---	---	---	---	---	1.9	.87	1.1	1.0	1.9	.63
12	1.3	---	---	---	---	---	1.8	1.2	1.1	1.2	1.7	.64
13	.63	---	---	---	---	1.6	1.8	1.1	1.0	1.1	1.2	.70
14	.55	---	---	---	---	1.8	1.7	1.2	1.0	1.0	1.1	.73
15	.48	---	---	---	---	1.9	1.6	1.3	1.0	1.0	.97	.87
16	.43	---	---	---	---	1.8	1.5	1.2	.82	.98	.69	.99
17	.40	---	---	---	---	1.8	1.5	1.1	.85	.96	.59	.88
18	.37	---	---	---	---	1.7	1.4	1.0	.89	1.1	.58	.75
19	.38	---	---	---	---	1.7	1.4	1.2	.91	1.2	1.0	.72
20	.38	---	---	---	---	1.9	1.2	1.4	.88	1.1	.90	.79
21	.44	---	---	---	---	2.1	1.1	1.2	.92	1.2	1.0	.81
22	.57	---	---	---	---	2.3	.97	1.1	.92	1.2	.92	.77
23	1.3	---	---	---	---	2.4	.87	1.1	.96	1.1	.79	.74
24	.93	---	---	---	---	2.3	.79	1.1	.89	1.1	.74	.68
25	.63	---	---	---	---	2.3	.70	1.1	.85	1.0	.69	.64
26	.50	---	---	---	---	2.2	.94	1.1	1.0	1.2	.67	.59
27	.69	---	---	---	---	2.2	1.5	1.0	.97	1.4	.63	.55
28	2.8	---	---	---	---	2.1	1.5	1.0	.89	1.1	.62	.55
29	.72	---	---	---	---	2.0	1.3	1.0	.86	1.1	.84	.61
30	.35	---	---	---	---	2.0	1.2	1.1	.84	1.1	.82	.77
31	.33	---	---	---	---	1.9	---	1.0	---	1.0	.78	---
TOTAL	22.03	3.80	---	---	---	38.0	46.77	32.56	29.65	32.76	31.43	20.88
MEAN	.71	.63	---	---	---	2.00	1.56	1.05	.99	1.06	1.01	.70
MAX	2.8	1.1	---	---	---	2.4	2.5	1.4	1.2	1.4	1.9	.99
MIN	.33	.28	---	---	---	1.6	.70	.82	.82	.76	.58	.55
AC-FT	44	7.5	---	---	---	75	93	65	59	65	62	41

09442680 SAN FRANCISCO RIVER NEAR RESERVE, NM

LOCATION.--Lat 33°44'12", long 108°46'14", in NE$^1/_4$NW$^1/_4$SE$^1/_4$ sec.35, T.6 S., R.19 W., Catron County, Hydrologic Unit 15040004, on left bank 1,300 ft downstream from Rainbow Bridge Canyon, 1.7 mi northwest of Reserve, and at mile 563.1.

DRAINAGE AREA.--350 mi^2, 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 with satellite telemetry. 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 fair except for those estimated, which are poor. 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 ft^3/s at Alma (downstream). See WSP 1313.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.77	73	e16	11	11	36	36	23	10	3.3	11	3.9
2	.61	62	e16	11	12	34	33	22	8.8	4.0	7.4	3.6
3	.47	56	e16	9.8	12	30	30	20	7.9	4.3	3.6	3.3
4	.42	149	e16	10	13	27	27	19	7.3	4.0	3.0	3.3
5	1.7	290	15	10	14	27	28	18	6.5	2.8	3.1	3.1
6	2.6	191	14	11	15	28	96	18	5.7	3.5	3.3	2.8
7	2.7	151	14	12	20	31	112	16	4.7	5.1	2.8	2.5
8	3.0	114	14	11	24	40	129	15	4.3	5.4	3.9	2.4
9	3.5	101	13	13	18	46	196	14	4.1	5.9	7.2	2.1
10	4.0	92	13	13	18	56	196	17	3.9	5.4	2.6	1.9
11	87	93	13	13	18	54	140	20	4.0	4.3	22	1.9
12	51	80	12	12	15	46	121	18	3.6	3.7	51	2.4
13	15	66	13	12	16	45	100	18	3.6	7.6	17	3.2
14	8.8	60	12	12	17	46	88	21	3.9	9.4	22	3.3
15	6.9	59	12	11	16	47	79	22	3.9	7.0	17	3.1
16	6.4	50	12	12	14	43	72	20	3.9	5.1	11	35
17	5.7	40	12	11	14	41	65	17	3.8	4.8	13	7.0
18	5.3	34	11	11	14	40	59	14	4.5	4.9	7.3	4.0
19	5.2	28	11	11	14	38	55	16	3.9	6.9	5.9	3.4
20	4.9	26	11	11	18	40	52	23	3.8	6.6	5.0	3.1
21	4.8	e25	11	11	24	43	50	37	4.3	7.9	5.2	2.9
22	5.2	e22	11	11	32	48	45	35	4.9	6.8	4.8	2.6
23	75	e20	11	11	40	50	42	32	6.1	5.9	4.4	2.1
24	156	e19	11	11	32	51	38	28	6.4	8.0	3.9	1.5
25	79	e18	11	11	27	49	35	25	5.2	9.1	3.6	1.1
26	45	e18	11	11	27	48	32	20	9.2	11	3.5	1.2
27	44	e17	10	12	27	46	31	17	9.2	15	3.2	.93
28	558	e17	10	12	37	44	31	15	6.8	9.7	3.1	.93
29	220	e17	11	12	---	43	30	14	5.7	7.6	4.2	.93
30	122	e16	11	13	---	42	27	11	4.1	9.2	3.8	.75
31	91	---	11	12	---	40	---	10	---	7.3	4.3	---
TOTAL	1615.97	2004	385	354.8	559	1299	2075	615	164.0	201.5	263.1	110.24
MEAN	52.1	66.8	12.4	11.4	20.0	41.9	69.2	19.8	5.47	6.50	8.49	3.67
MAX	558	290	16	13	40	56	196	37	10	15	51	35
MIN	.42	16	10	9.8	11	27	27	10	3.6	2.8	2.6	.75
AC-FT	3210	3970	764	704	1110	2580	4120	1220	325	400	522	219

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2001, BY WATER YEAR (WY)

MEAN	28.8	19.7	20.2	20.8	38.2	75.4	51.8	19.2	6.45	8.36	17.2	19.1
MAX	430	211	159	159	231	336	398	162	39.7	28.3	96.2	172
(WY)	1984	1979	1979	1993	1993	1985	1973	1973	1992	1967	1999	1983
MIN	3.27	5.18	5.11	5.68	5.14	4.04	3.38	2.70	1.39	1.34	3.96	1.75
(WY)	1983	1976	1978	1970	1964	1959	1967	1959	1990	1995	2000	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1959 - 2001	
ANNUAL TOTAL	5364.36		9646.61			
ANNUAL MEAN	14.7		26.4		27.4	
HIGHEST ANNUAL MEAN					101	1973
LOWEST ANNUAL MEAN					5.79	2000
HIGHEST DAILY MEAN	558	Oct 28	558	Oct 28	5000	Oct 20 1972
LOWEST DAILY MEAN	.40	Sep 24	.42	Oct 4	[e].24	Jul 18 1997
ANNUAL SEVEN-DAY MINIMUM	.43	Sep 21	1.0	Sep 24	.43	Sep 21 2000
MAXIMUM PEAK FLOW			824	Oct 28	[a]9830	Oct 1 1983
MAXIMUM PEAK STAGE			4.60	Oct 28	[b]11.71	Oct 1 1983
INSTANTANEOUS LOW FLOW			.42	Oct 4	[c].40	Sep 23 2000
ANNUAL RUNOFF (AC-FT)	10640		19130		19820	
10 PERCENT EXCEEDS	18		56		53	
50 PERCENT EXCEEDS	6.3		12		8.4	
90 PERCENT EXCEEDS	1.7		3.3		3.4	

e Estimated
a From rating curve extended above 1,400 ft^3/s, on basis of slope-area measurement of peak flow.
b Recorded, 11.30 ft, from floodmarks.
c Recorded gage height.

09442682 KIEHNE DITCH NEAR RESERVE, NM

LOCATION.--Lat 33°42'14", long 108°45'24", in $SE^1/_4$,$SW^1/_4$,$NE^1/_4$, sec. 12, T.7 S., R.19 W., Catron County, Hydrologic Unit 15040004, on left bank 0.7 mi southwest of Reserve, 12.7 mi southwest of Apache Creek, NM.

PERIOD OF RECORD.--October 1999 to current year (irrigation season only).

GAGE.--Water-stage recorder with Parshall flume. Elevation of gage is 5,720 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 11 ft^3/s, April 22, 2000, gage height 3.24 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 11 ft^3/s, Aug. 30, gage height 3.29 ft; no flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	.00	---	---	---	---	.05	.00	6.4	2.7	4.8	9.3
2	1.8	.00	---	---	---	---	.05	.00	6.2	2.2	4.8	7.9
3	1.6	.00	---	---	---	---	.04	.00	6.1	2.2	3.7	7.6
4	1.6	.00	---	---	---	---	.03	.62	5.7	1.9	3.2	6.6
5	1.9	.00	---	---	---	---	.02	1.6	5.4	1.4	2.7	6.3
6	1.8	.00	---	---	---	---	.10	1.8	5.5	1.5	2.6	5.2
7	1.7	---	---	---	---	---	.06	3.3	5.4	2.1	.02	4.2
8	1.8	---	---	---	---	---	.05	3.4	5.1	3.4	.00	3.7
9	2.0	---	---	---	---	---	.02	3.7	4.8	5.6	.00	3.3
10	2.1	---	---	---	---	---	.00	3.6	4.6	5.8	.00	3.2
11	1.8	---	---	---	---	---	.00	3.0	4.2	4.7	.00	3.1
12	.02	---	---	---	---	---	.02	4.3	4.0	3.9	4.7	3.2
13	.00	---	---	---	---	---	.02	4.3	3.8	3.8	.55	3.7
14	.00	---	---	---	---	.00	.03	5.7	3.7	4.4	.00	3.9
15	.00	---	---	---	---	.00	.04	6.7	3.6	4.5	.00	3.8
16	.00	---	---	---	---	.00	.04	6.6	3.4	4.4	.00	3.5
17	.00	---	---	---	---	.00	.04	5.9	3.2	4.0	.00	1.8
18	.00	---	---	---	---	.00	.03	5.1	3.2	4.2	.00	1.8
19	.00	---	---	---	---	.00	.03	4.0	3.0	4.3	.00	1.8
20	.00	---	---	---	---	.00	.02	2.5	2.7	4.3	.00	1.7
21	.00	---	---	---	---	.00	.03	1.6	2.7	5.2	.00	1.4
22	.00	---	---	---	---	.00	.05	10	2.5	5.3	.00	1.2
23	1.1	---	---	---	---	.00	.02	9.7	2.6	4.8	.00	.96
24	1.5	---	---	---	---	.00	.00	8.9	2.8	4.3	.00	.71
25	1.2	---	---	---	---	.00	.01	7.8	2.2	5.4	1.1	.43
26	1.1	---	---	---	---	.01	.00	7.1	2.5	5.5	7.6	.17
27	1.1	---	---	---	---	.03	.00	6.1	3.5	5.7	7.2	.06
28	.26	---	---	---	---	.03	3.9	5.8	4.3	5.3	6.6	.05
29	.00	---	---	---	---	.05	4.3	5.8	3.6	4.8	7.9	.04
30	.00	---	---	---	---	.06	.00	6.3	3.1	4.6	9.7	.02
31	.00	---	---	---	---	.04	---	6.5	---	4.4	9.9	---
TOTAL	26.18	0.00	---	---	---	0.22	9.00	141.72	119.8	126.6	77.07	90.64
MEAN	.84	.000	---	---	---	.012	.30	4.57	3.99	4.08	2.49	3.02
MAX	2.1	.00	---	---	---	.06	4.3	10	6.4	5.8	9.9	9.3
MIN	.00	.00	---	---	---	.00	.00	.00	2.2	1.4	.00	.02
AC-FT	52	.00	---	---	---	.4	18	281	238	251	153	180

09442956 THOMASON FLAT DITCH NEAR GLENWOOD, NM

LOCATION.--Lat 33°25'54", long 108°55'54", in NW¼,NW¼,NW¼, sec. 20, T.10 S., R.20 W., Catron County, Hydrologic Unit 15040004, on right bank 3.7 mi northwest of Alma, 11 mi north of Glenwood, NM.

PERIOD OF RECORD.--October 1999 to current year (irrigation season only).

GAGE.--Water-stage recorder with Parshall flume. Elevation of gage is 4,860 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for those estimated, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 19 ft^3/s, Oct. 23, 2000, gage height 3.33 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 19 ft^3/s, Oct. 23, gage height 3.33 ft; no flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	e.00	---	---	---	---	3.3	3.8	2.1	5.2	5.5	2.1
2	.34	e.00	---	---	---	---	.47	4.9	2.3	3.4	6.6	1.2
3	2.8	e.00	---	---	---	---	.45	2.4	2.4	4.8	6.6	5.8
4	2.9	e.00	---	---	---	---	.43	3.9	2.0	4.3	8.8	5.9
5	3.1	e.00	---	---	---	---	.45	5.4	1.8	2.8	8.6	6.1
6	3.5	e.00	---	---	---	---	.45	4.7	1.7	3.0	9.2	5.9
7	3.2	---	---	---	---	---	.36	4.0	1.5	3.5	6.8	5.7
8	3.4	---	---	---	---	---	.24	3.6	.35	4.1	4.6	5.4
9	3.8	---	---	---	---	---	.26	3.7	.04	4.7	1.7	5.1
10	4.1	---	---	---	---	---	.20	3.7	.05	3.2	1.6	4.9
11	7.5	---	---	---	---	---	.17	3.6	1.1	.23	2.6	4.3
12	1.6	---	---	---	---	---	.12	3.4	4.4	.32	4.2	3.7
13	.01	---	---	---	---	---	.08	3.4	4.9	.40	4.9	3.9
14	.00	---	---	---	---	---	.02	2.7	4.6	.35	3.9	5.4
15	.00	---	---	---	---	---	.00	2.7	4.7	.27	.00	2.8
16	.00	---	---	---	---	2.8	.00	2.6	5.1	.27	.00	4.8
17	.00	---	---	---	---	2.0	.00	3.2	3.4	.35	.00	7.5
18	.00	---	---	---	---	1.1	.00	6.9	3.3	.45	.00	9.4
19	.00	---	---	---	---	.55	.00	7.1	3.3	1.6	.00	6.9
20	.00	---	---	---	---	.25	.00	5.6	3.9	1.8	.00	5.2
21	.00	---	---	---	---	.05	.00	4.5	4.9	2.5	.00	3.8
22	.00	---	---	---	---	.00	.00	4.2	6.3	.07	.00	2.7
23	e1.8	---	---	---	---	.00	.00	3.4	6.2	.00	.74	2.1
24	e1.0	---	---	---	---	.09	.00	3.1	5.4	.00	3.6	2.4
25	e.00	---	---	---	---	3.5	.00	3.2	5.0	.00	3.0	2.4
26	e.00	---	---	---	---	8.7	.00	3.8	5.6	.00	2.6	2.5
27	e.00	---	---	---	---	8.5	.00	3.7	6.0	.00	2.8	3.6
28	e.00	---	---	---	---	7.7	.00	3.7	4.7	.00	1.9	7.0
29	e.00	---	---	---	---	7.1	.00	3.6	4.0	.00	1.8	8.0
30	e.00	---	---	---	---	6.1	.22	3.5	4.4	.00	2.4	8.9
31	e.00	---	---	---	---	5.5	---	3.1	---	.65	2.2	---
TOTAL	39.05	0.00	---	---	---	53.94	7.22	121.1	105.44	48.26	96.64	145.4
MEAN	1.26	.000	---	---	---	3.37	.24	3.91	3.51	1.56	3.12	4.85
MAX	7.5	.00	---	---	---	8.7	3.3	7.1	6.3	5.2	9.2	9.4
MIN	.00	.00	---	---	---	.00	.00	2.4	.04	.00	.00	1.2
AC-FT	77	.00	---	---	---	107	14	240	209	96	192	288

e Estimated

09442960 W.S. DITCH NEAR GLENWOOD, NM

LOCATION.--Lat 33°24'40", long 108°54'57", in $SE^1/_4$,$NE^1/_4$,$NW^1/_4$, sec. 29, T.10 S., R.20 W., Catron County, Hydrologic Unit 15040004, on left bank 2.0 mi northwest of Alma, and 7.0 mi north of Glenwood.

PERIOD OF RECORD.--October 1999 to current year (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 4,650 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 22 ft^3/s, Aug. 18, 2000, gage height 2.41 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 17 ft^3/s, April 21, gage height 4.34 ft; no flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	1.1	---	---	---	---	7.1	9.7	14	6.4	7.5	11
2	6.1	1.1	---	---	---	---	6.3	9.8	12	5.5	7.1	8.1
3	4.1	1.1	---	---	---	---	8.5	10	9.8	6.3	9.4	6.6
4	4.1	1.4	---	---	---	---	11	10	11	8.6	11	9.5
5	4.3	2.6	---	---	---	---	11	9.2	11	8.2	10	9.2
6	4.1	2.8	---	---	---	---	13	11	11	8.0	7.9	8.8
7	4.0	---	---	---	---	---	7.0	12	8.4	7.6	7.6	8.5
8	3.9	---	---	---	---	---	4.6	9.5	8.7	7.6	7.5	8.3
9	3.9	---	---	---	---	---	8.1	9.5	8.6	8.4	6.7	8.0
10	3.8	---	---	---	---	---	8.3	9.8	8.3	8.7	6.9	8.6
11	3.4	---	---	---	---	---	5.9	9.8	7.9	9.4	7.0	9.4
12	1.6	---	---	---	---	---	5.4	11	6.4	9.5	7.0	7.7
13	1.1	---	---	---	---	---	5.2	11	6.7	9.5	7.2	7.9
14	.79	---	---	---	---	---	5.0	11	7.8	9.2	6.2	11
15	.72	---	---	---	---	.00	5.0	11	6.4	9.5	4.4	14
16	.73	---	---	---	---	.00	11	12	6.8	9.6	7.0	9.1
17	1.4	---	---	---	---	.00	15	12	6.6	10	7.1	9.3
18	5.0	---	---	---	---	.00	15	11	6.6	10	6.8	8.9
19	5.9	---	---	---	---	2.2	15	11	6.3	8.9	6.4	8.3
20	5.6	---	---	---	---	6.0	15	7.4	6.7	8.8	6.3	9.8
21	5.0	---	---	---	---	7.2	13	7.7	7.0	11	6.3	9.6
22	1.5	---	---	---	---	7.3	7.8	7.8	7.4	12	6.0	9.1
23	2.7	---	---	---	---	8.0	6.8	8.0	7.3	12	5.6	7.5
24	2.1	---	---	---	---	9.5	6.8	7.6	7.3	11	4.0	7.8
25	2.0	---	---	---	---	11	6.5	6.8	7.2	14	4.4	9.7
26	1.9	---	---	---	---	9.4	7.5	7.0	7.7	14	6.6	12
27	1.9	---	---	---	---	8.8	8.1	9.7	7.5	13	6.2	10
28	1.7	---	---	---	---	8.7	7.2	11	8.0	12	5.9	7.3
29	1.2	---	---	---	---	8.0	6.9	11	7.0	12	6.8	7.0
30	1.1	---	---	---	---	6.9	8.8	11	7.0	12	8.5	6.8
31	1.1	---	---	---	---	7.6	---	13	---	12	9.4	---
TOTAL	92.84	10.1	---	---	---	100.60	261.8	308.3	244.4	304.7	216.7	268.8
MEAN	2.99	1.68	---	---	---	5.92	8.73	9.95	8.15	9.83	6.99	8.96
MAX	6.1	2.8	---	---	---	11	15	13	14	14	11	14
MIN	.72	1.1	---	---	---	.00	4.6	6.8	6.3	5.5	4.0	6.6
AC-FT	184	20	---	---	---	200	519	612	485	604	430	533

09443938 EAST PLEASANTON DITCH NEAR GLENWOOD, NM

LOCATION.--Lat 33°17'36", long 108°53'25", in $SE^1/_4$,$SW^1/_4$,$SE^1/_4$, sec. 34, T.5 S., R.20 W., Catron County, Hydrologic Unit 15040004, on right bank 50 ft from heading gate, on San Francisco River, 1.5 mi south of Glenwood.

PERIOD OF RECORD.--October 1999 to current year (irrigation season only).

GAGE.--Water-stage recorder with Parshall flume. Elevation of gage is 4,650 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for those estimated, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 12 ft^3/s, Aug. 18, 2000, gage height 2.64 ft; minimum discharge 1.3 ft^3/s, June 20, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 12 ft^3/s, Aug. 1, gage height 2.71 ft; minimum daily discharge, 3.1 ft^3/s, May 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	e.00	---	---	---	---	7.7	8.4	6.5	8.0	8.7	7.7
2	8.8	e.00	---	---	---	---	7.8	8.4	6.5	8.0	7.9	7.6
3	8.7	e.00	---	---	---	---	7.9	8.3	6.5	8.1	7.3	7.5
4	8.7	e.00	---	---	---	---	7.8	8.2	6.8	8.1	7.2	7.5
5	8.9	e.00	---	---	---	---	7.7	8.0	6.8	7.9	7.1	7.5
6	9.0	e.00	---	---	---	---	8.0	7.6	6.8	7.7	7.1	7.5
7	9.0	---	---	---	---	---	8.7	7.3	6.8	7.9	6.8	7.6
8	9.0	---	---	---	---	---	9.0	6.9	6.9	8.2	7.0	7.6
9	9.0	---	---	---	---	---	9.4	6.9	7.1	8.3	7.3	7.4
10	9.1	---	---	---	---	---	9.5	7.0	7.0	8.3	8.2	7.4
11	10	---	---	---	---	---	9.5	6.8	6.9	8.2	8.1	7.4
12	8.7	---	---	---	---	---	9.1	6.6	7.0	8.3	7.9	7.4
13	4.5	---	---	---	---	---	9.1	6.4	7.2	7.9	7.9	7.4
14	4.4	---	---	---	---	---	8.9	6.4	7.2	7.9	9.5	7.5
15	4.3	---	---	---	---	---	9.0	6.2	7.2	7.9	9.7	7.5
16	4.3	---	---	---	---	---	8.9	7.2	7.4	7.8	9.3	7.5
17	4.3	---	---	---	---	6.1	8.8	8.8	7.6	7.8	9.1	7.5
18	4.9	---	---	---	---	6.4	8.9	8.4	7.5	8.1	8.9	7.9
19	6.2	---	---	---	---	7.2	8.8	8.2	7.6	7.8	8.5	7.7
20	6.2	---	---	---	---	7.1	8.9	8.3	7.6	7.8	8.3	7.5
21	6.1	---	---	---	---	7.1	9.0	8.3	7.8	8.0	8.2	7.5
22	5.8	---	---	---	---	7.3	9.1	8.1	7.7	7.8	8.2	7.4
23	6.2	---	---	---	---	7.9	8.9	7.8	7.9	7.6	8.2	7.3
24	e.00	---	---	---	---	8.2	8.8	7.6	7.9	6.9	8.1	7.1
25	e.00	---	---	---	---	7.9	8.7	7.4	7.9	6.8	8.0	7.2
26	e.00	---	---	---	---	7.9	8.6	7.2	8.0	7.3	7.9	7.2
27	e.00	---	---	---	---	7.9	8.6	6.9	7.8	7.4	7.8	7.1
28	e.00	---	---	---	---	7.9	8.8	6.7	8.0	6.4	7.7	6.9
29	e.00	---	---	---	---	8.0	8.7	6.5	8.0	6.6	7.6	6.8
30	e.00	---	---	---	---	7.8	8.6	6.3	8.1	7.8	7.6	6.8
31	e.00	---	---	---	---	7.8	---	5.9	---	7.2	7.6	---
TOTAL	163.70	0.00	---	---	---	112.5	261.2	229.0	220.0	239.8	248.7	221.9
MEAN	5.28	.000	---	---	---	7.50	8.71	7.39	7.33	7.74	8.02	7.40
MAX	10	.00	---	---	---	8.2	9.5	8.8	8.1	8.3	9.7	7.9
MIN	.00	.00	---	---	---	6.1	7.7	5.9	6.5	6.4	6.8	6.8
AC-FT	325	.00	---	---	---	223	518	454	436	476	493	440

e Estimated

09444000 SAN FRANCISCO RIVER NEAR GLENWOOD, NM

LOCATION.--Lat 33°14'48", long 108°52'47", in NE$^1/_4$NW$^1/_4$ 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 White water Creek, and at mile 511.5.

DRAINAGE AREA.--1,653 mi^2.

WATER-DISCHARGE RECORDS

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 with satellite telemetry 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 fair. Diversions for irrigation of about 2,000 acres upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods probably occurred Jan. 19 and Oct. 14, 1916 when discharges of 60,000 ft^3/s or greater were computed for station at Clifton, AZ. On Nov. 26, 1905, a peak of 25,000 ft^3/s was measured (by float-area method) at station at Alma (about 12 mi upstream, drainage area, 1,560 mi^2); a similar measurement of 21,000 ft^3/s was made at the Alma station for peak of Dec. 3, 1906.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	281	85	60	47	256	157	124	29	19	93	26
2	15	203	84	59	45	249	154	119	29	18	38	26
3	15	159	83	57	45	203	153	111	29	19	24	26
4	15	783	82	59	44	169	146	96	29	18	22	26
5	15	1620	82	59	44	144	140	85	29	18	21	25
6	15	1430	80	58	45	134	223	74	29	20	21	24
7	15	1310	79	59	46	142	527	67	29	19	20	24
8	16	832	77	57	49	181	430	58	29	22	20	23
9	16	701	75	62	51	209	640	57	29	21	27	21
10	17	575	72	62	53	247	650	58	28	20	42	21
11	336	777	71	61	53	275	441	59	25	19	37	20
12	2830	721	73	62	53	243	350	57	26	20	35	21
13	329	489	72	60	53	198	299	58	27	18	42	24
14	92	385	70	59	53	171	259	60	26	18	251	26
15	44	319	69	57	57	163	223	60	26	19	159	31
16	31	272	68	56	59	167	198	59	26	17	106	30
17	27	230	67	55	57	159	177	57	25	19	96	37
18	26	192	66	53	56	149	178	50	24	20	81	54
19	25	166	66	52	53	136	191	51	23	18	64	43
20	24	147	66	50	51	125	198	53	23	19	55	38
21	27	134	64	49	53	123	191	52	23	22	49	33
22	31	127	64	49	60	138	182	50	23	22	48	27
23	4590	119	64	49	77	168	168	47	23	20	47	21
24	1510	113	62	49	100	193	152	44	23	17	39	20
25	524	109	63	48	99	191	138	44	22	17	37	21
26	230	105	62	48	94	197	131	42	23	17	33	21
27	142	101	61	49	96	201	131	38	21	19	31	19
28	4680	96	62	49	121	197	132	34	21	17	27	17
29	1660	92	61	50	---	191	136	33	21	20	23	14
30	705	88	61	48	---	175	132	32	21	23	26	14
31	400	---	61	48	---	161	---	30	---	78	24	---
TOTAL	18417	12676	2172	1693	1714	5655	7227	1859	761	653	1638	773
MEAN	594	423	70.1	54.6	61.2	182	241	60.0	25.4	21.1	52.8	25.8
MAX	4680	1620	85	62	121	275	650	124	29	78	251	54
MIN	15	88	61	48	44	123	131	30	21	17	20	14
AC-FT	36530	25140	4310	3360	3400	11220	14330	3690	1510	1300	3250	1530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2001, BY WATER YEAR (WY)

MEAN	90.1	54.2	85.7	98.5	126	194	144	75.7	28.5	37.3	76.9	60.0
MAX	2026	520	1068	1568	1034	1036	1049	593	146	108	392	368
(WY)	1984	1979	1979	1993	1993	1985	1973	1973	1992	1930	1957	1988
MIN	9.77	10.8	12.9	13.5	14.9	11.3	10.2	8.65	5.70	13.2	13.7	7.66
(WY)	1966	1957	1954	1956	1956	1959	1957	1956	1956	1963	1960	1956

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1928 - 2001	
ANNUAL TOTAL	39827		55238			
ANNUAL MEAN	109		151		89.2	
HIGHEST ANNUAL MEAN					351	1979
LOWEST ANNUAL MEAN					13.9	1956
HIGHEST DAILY MEAN	4680	Oct 28	4680	Oct 28	27500	Oct 2 1983
LOWEST DAILY MEAN	11	Jun 1	14	Sep 29	2.5	Jun 25 1956
ANNUAL SEVEN-DAY MINIMUM	13	May 29	15	Oct 1	3.9	Jun 22 1956
MAXIMUM PEAK FLOW			13100	Oct 23	[a]37100	Oct 2 1983
MAXIMUM PEAK STAGE			12.44	Oct 23	[b]18.15	Oct 2 1983
INSTANTANEOUS LOW FLOW			3.6	Aug 8	1.5	Dec 3 1906
ANNUAL RUNOFF (AC-FT)	79000		109600		64600	
10 PERCENT EXCEEDS	115		248		173	
50 PERCENT EXCEEDS	24		57		32	
90 PERCENT EXCEEDS	14		20		15	

a From rating curve extended above 4,200 ft^3/s, on basis of slope-area measurements at gage heights 10.74 ft, 15.60 ft, and 20.80 ft.
b 20.80 ft outside floodmarks.

09444000 SAN FRANCISCO RIVER NEAR GLENWOOD, NM--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-85, Water year 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)
DEC													
13...	1300	11.5	11.5	648	71	327	11.2	121	8.4	5	180	.010	.06
MAR													
07...	1455	10.5	14.0	645	138	300	9.0	96	8.0	.0	173	.010	.02
JUN													
14...	0920	15.5	28.0	645	28	290	7.6	90	7.8	.0	178	<.010	.03
AUG													
22...	1510	26.0	32.0	652	49	356	7.2	105	8.1	.0	206	<.010	.05

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
DEC													
13...	<.010	<.20	<.20	.110	.040	.040	.060	130	38.1	9.33	20.4	.8	1.84
MAR													
07...	<.010	.23	.40	.110	.140	.080	.080	110	32.4	8.20	18.3	.7	1.53
JUN													
14...	<.010	<.20	<.20	.120	.040	.030	.040	130	36.4	9.35	18.3	.7	1.81
AUG													
22...	<.010	<.20	<.20	.130	.130	.040	.040	140	40.6	10.3	17.0	.6	2.15

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)
DEC													
13...	5.3	9.9	.4	36.2	E1.2	14.1	<.06	34	<.04	E.4	.14	2.0	<10
MAR													
07...	5.2	10.1	.4	32.4	<2.0	13.0	<.06	27	<.04	<.8	.11	.9	<10
JUN													
14...	5.2	8.6	.3	33.7	<2.0	9.4	<.06	22	<.04	<.8	.10	.5	<10
AUG													
22...	4.7	8.6	.4	38.1	E1.7	16.8	<.06	23	<.04	E.4	.16	1.0	<10

DATE	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
DEC													
13...	E.07	14.1	.6	.55	<1.0	2	.08	2	<2.4	<2.6	1.86	156	216
MAR													
07...	<.08	5.0	.6	1.03	<1.0	<1	.43	3	<2.4	<2.6	1.27	142	194
JUN													
14...	<.08	13.5	.5	<.06	<1.0	2	.09	1	<2.0	<3.0	1.68	146	202
AUG													
22...	<.08	9.7	.7	.18	<1.0	<1	.06	2	<2.0	<3.0	1.53	169	224

09444000 SAN FRANCISCO RIVER NEAR GLENWOOD, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
DEC 13...	77	<.14	27	164
MAR 07...	46	<.14	115	145
JUN 14...	73	<.01	47	154
AUG 22...	96	<.01	73	174

DATE	TIME	MOIS-TURE CONTENT DRY WT. (% OF TOTAL) (00495)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	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, SEDIMT, BED MA-TERIAL AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)
AUG 22...	1510	19	.3	670	.1	7.5	6.9	9	9600	8.4	260	.03	30

Remark codes used in this report:
< -- Less than
E -- Estimated value

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 2001 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (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-	07-03-01	6.10	2,750	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.	1953-96[g] 1999-	- -01	--	k	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.	1971-96[g] 1997-	- -01	--	k	08-25-82	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* 1968-96[g] 1999-	07-03-01	2.08	29	06-18-65	3.05	151
Dog Creek near Shoemaker. (07220900)	Lat 35°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.	1954-95[g] 1999-	10-23-00	8.22	800	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.	1961-96[g] 1999-	- -01	<1.75	<100	05-11-94	5.83	1,500
Trementina Creek at Trementina. (07222300)	Lat 35°29'28", long 104°24'59", San Miguel County, Hydrologic Unit 11080005, at bridge on State Highway 419; at Trementina. Drainage area is 63.9 mi^2	1959-	06-07-01	4.13	2,050	09-11-65	12.00	14,100

Station name and number	Location and drainage area	Period of record	Water year 2001 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (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 12.0 mi^2.	1971-96[g] 1999-	06-28-01	7.31	104	08-29-77	17.37	7,020
Pajarito Creek at Newkirk, NM (07225000)	Lat 35°04'20", long 104°14'50", Guadalupe County, downstream side of bridge on U.S. Highway 66, 1 mi east of Newkirk. Drainage area is 55.0 mi^2.	1954-95[g] 1999-	08-25-01	6.05	2,020	07-16-81	8.01	3,500
Bluewater Creek near Tucumcari. (07225300)	Lat 35°08'31", long 103°47'32", Quay County, 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.	1971-96[g] 1999-	07-04-01	8.57	566	08-11-81	12.71	[c]2,350
Bueyeros Creek at Bueyeros. (07226200)	Lat 35°58'10", long 103°41'05", Harding County, on right upstream wingwall of culvert on State Road 102 at Bueyeros. Drainage area is [a]34.0 mi^2.	1957-96[g] 1999-	03-07-01 10-23-00	4.02 [h]3.70	385 [h]280	08-11-81	3.65	1,150
Carrizo Creek near Roy. (07226300)	Lat 36°02'58", long 103°57'48", Harding County, Hydrologic Unit 11080007, 800 ft downstream from State Highway 120, and 15 mi northeast of Roy. Drainage area is [a]68 mi^2.	1954-	10-23-00	4.25	475	08-11-81	[n]7.11	[n]1,800
Plaza Largo 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 is 0.36 mi^2.	1952-96[g] 1999-	10-23-00	2.36	152	07-16-58	12.70	1,170
Tramperos Creek near Stead. (07227200)	Lat 36°04'15", long 103°12'10", in $NW^1/_2NW^1/_2$ 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 [a]556 mi^2.	1966-73* 1974-	03-07-01	3.12	38	10-17-65	16.5	12,300
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 [a]42.0 mi^2.	1953-96[g] 1999-	08-14-01	2.89	488	06--53	8.85	10,300
			BRAZOS RIVER BASIN					
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-	10-23-00	3.01	366	07-24-72	---	8,000

Station name and number	Location and drainage area	Period of record	Water year 2001 maximum: Date	Gage height (ft)	Discharge (ft^3/s)	Period of record maximum: Date	Gage height (ft)	Discharge (ft^3/s)
		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-	08-06-01	6.29	866	07-07-98	[d]11.56	4,620
Arroyo Seco tributary near Pojoaque. (08293700)	Lat 35°56'33", long 103°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.	1971-96[g] 1999-	10-28-00	5.83	29	07-28-74	10.62	508
Rito De Los Frijoles in Bandelier Nation Monument (08313350)	Lat 35°46'35", long 106°16'06", Sandoval County, Hydrologic Unit 13020201, in Bandelier National Monument, on right bank 800 ft downstream from Monument Headquarters, 6.5 mi south of Los Alamos, 18.5 mi northwest of Santa Fe. Drainage area is 17.5 mi^2.	1963-69 1977-	07-02-01 06-28-00 08-10-99	2.29 [h]2.66 [h]2.72	13 [h]42 [h]49	07-21-78	6.34	[q]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-	10-28-00	1.69	18	[n]08- -77	[n]3.73	[n]300
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 1959-95[g] 1999-	- -01	<2.66	<615	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-	07-18-01	5.50	990	08-09-99	17.75	13,200
San Pedro Creek near Golden. (08318900)	Lat 35°13'45", long 106°18'00", Sandoval County, Hydrologic Unit 13020201, 1 mi downstream from bridge on State Highway 14 and 5.5 mi southwest of Golden. Drainage area is 45.2 mi^2.	1953-	08-28-01	1.46	1,050	09-24-55	[n]12.95	10,800
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 southeast of Cedro, and 4.5 mi northwest of Miera. Drainage area is 1.57 mi^2.	1959-96[g] 1999-	08-12-01	0.91	14	07-20-71	1.33	44

Station name and number	Location and drainage area	Period of record	Water year 2001 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
		RIO GRANDE BASIN--Continued						
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-	10-23-00	3.04	1,450	06-24-67	6.85	6,500
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 [a]35 mi^2.	1961-	09-14-01	2.19	317	[n]07-31-97	[n]7.47	[n]5,600
Rio Puerco at Cuba (08332525)	Lat 36°00'38", long 106°58'48", Sandoval County, Hydrologic Unit 1302024, on downstream side of bridge of State Road 197, 0.50 mi to southwest of State Highway 44, and 1.0 mi southwest of Cuba.	1997-	10-28-00	5.31	143	06-06-97	11.04	2,730
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.	1969-96[g] 1999-	02-08-01	1.45	2.6	08-27-93	3.56	195
La Jencia Creek near Magdalena. (08353500)	Lat 34°09'45", long 107°12'35", Socorro County, Hydrologic Unit 13020209, 3.5 mi northeast of Magdalena. Drainage area is 195 mi^2.	1957- 1961-96[g] 1999-	08-10-01	2.78	1,240	07-08-98	11.36	4,950
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.	1961-96[g] 1999-	09-13-01	1.29	53	09-10-80	4.75	620
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.	1959-96[g] 1999-	- -01	<1.51	<910	06-10-88	6.09	5,070
Alamosa Creek near Monticello. (08360000)	Lat 33°34'09", long 107°35'33", Socorro County, Hydrologic Unit 13020211, on left bank at Alamosa damsite and downstream from Old Fort Ojo Caliente, just downstream from Wildhorse Creek, 15 mi northwest of Monticello. Drainage area is 403 mi^2.	1931-42* 1956-58 1958-71* 1973-95[g] 1997-	08-12-01	3.21	216	08-13-64	14.04	10,800

Station name and number	Location and drainage area	Period of record	Water year 2001 maximum: Date	Gage height (ft)	Discharge (ft^3/s)	Period of record maximum: Date	Gage height (ft)	Discharge (ft^3/s)
			RIO GRANDE BASIN--Continued					
Percha Creek near Hillsboro. (08361700	Lat 32°54'55", long 107°36'05", Sierra County, 150 ft south of State Highway 180, and 2 mi west of Hillsboro. Drainage area is 35.4 mi^2.	1957-78[g] 1980-	- - 01	<1.31	<45	08-06-99	[d]14.0	19,900
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.	1959-96[g] 1999-	08-20-01	4.08	467	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-	08-14-01	3.06	28	[n]06-01-37	---	[nc]20.000
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 7.60 mi^2.	1957-96[g] 1999-	07-13-01	1.79	113	08-01-66	5.26	2,530
Pintada Arroyo near Santa Rosa. (08383300)	Lat 34°53'20", long 104°43'50", Guadalupe County, at bridge on U.S. Highway 54, and 4.5 miles southwest of Santa Rosa Drainage area is 896 mi^2.	1959-86[g] 1996-	09-14-01	6.71	385	06-26-96	12.97	5,000
Pecos River tributary near Puerto de Luna. (08383370)	Lat 34°52'35", long 104°38'15", 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.	1961-96[g] 1999-	10-23-00 06-05-00	8.01 [h]6.01	160 42	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.	1962-96[g] 1999-	- - 00 - - 99	--- ---	(k) [h](m)	07-11-72	6.86	2,850
Yeso Creek near Fort Sumner. (08385600)	Lat 34°16'32", long 104°17'28", DeBaca 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.	1937-95[g] 1997-	- - 00	---	(m)	04-30-99	14.24	22,900
Aragon Creek tributary near Encinoso. (08385670)	Lat 33°43'35", long 105°31'43", Lincoln County, Hydrologic Unit 13060005, 0.3 mi upstream from wooden bridge on dirt road, 1.2 mi north of State Highway 246, and 4.3 mi west of Encinoso. Drainage area 6.07 mi^2.	1961-96[g] 1999-	08-13-01	3.58	362	09-06-61	5.10	1,610

Station name and number	Location and drainage area	Period of record	Water year 2001 maximum: Date	Gage height (ft)	Discharge (ft^3/s)	Period of record maximum: Date	Gage height (ft)	Discharge (ft^3/s)
			RIO GRANDE BASIN--Continued					
Rio Bonito near Fort Stanton. (08389000)	Lat 33°31'05", long 105°29'10", Lincoln County, Hydrologic Unit 13060008, on left bank 130 ft upstream from culvert on U.S. Highway 380, 2.5 mi northeast of Fort Stanton. Drainage area is [a]85 mi^2.	1955-95 1997-	- -01	<3.80	<238	05-17-79	7.20	4,100
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.	1971-96[g] 1999-	06-02-01 - - 94 - - 93 - - 92 07-14-91 08-15-90 08-27-89 08-05-88 07-09-87	3.28 <2.95 4.25 4.94 4.04 4.93 4.16	13 <6 0 0 44 72 36 71 41	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 Picacho. Drainage area is 1.32 mi^2.	1962-96[g] 1999-	- -01	<2.41	<4	09-13-96	10.38	3,600
Pancho Canyon near Arabela. (08393700)	Lat 33°30'36", long 105°11'38", Lincoln County, Hydrologic Unit 13060008, 200 ft downstream from dip on State Highway 368, and 5.6 mi south of Arabela. Drainage area is 16.7 mi^2.	1962-96[g] 1999-	08-10-01 06-21-00	6.19 5.75	187 [h]119	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-	10-25-00	13.34	729	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.	1968-96[g] 1999-	06-02-01	2.78	76	09-08-95	9.60	5,900
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-	11-04-00	6.76	2,910	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 [a]20 mi^2.	1963-96[g] 1999-	- -01 - -00	<4.00 <6.79	<686 [h]668	07-30-94	4.85	530
			MIMBRES BASIN					
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.	1958-96[g] 1999-	08-13-01	1.07	112	09-13-99	5.55	6,500

Annual maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 2001 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
			MIMBRES BASIN--Continued					
Cameron Creek at Central. (08478000)	Lat 32°47'38", long 108°08'58", Grant County, 0.5 mi above culvert on U.S. Highway 260, at north edge of Central. Drainage area is 18.8 mi^2.	1954-95[g] 1999-	08-27-01	3.07	616	08-29-59	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-	- -01	<5.04	<389	[n]12-19-78	[n]5.91	[n]2,350
Seventy-six 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.	1967-96[g] 1999-	08-02-01	5.16	127	06-27-00	8.20	290
			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-	- -01	<2.37	<900	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 mi west of Indian Divide, 7 mi northwest of Capitan, and 2 mi north of Nogal. Drainage area is 1.94 mi^2.	1968-96[g] 1999-	- -01	<2.22	<0.30	08-10-77	8.45	655
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.	1961-96[g] 1999-	09-15-01	1.38	20	08-12-61	2.39	551
			09-02-99	1.69	[h]38			
			- -98	2.24	[h]100			
			07-25-96	1.33	[h]19			
			- -94	<1.03	[h]<11			
			06-21-93	1.10	[h]12			
			08-11-92	1.12	[h]13			
			07-23-91	1.82	[h]50			
			05-02-90	1.37	[h]20			
			07-28-89	1.63	[h]33			
			08-15-88	1.37	[h]20			
			08-24-87	1.09	[h]12			
			09-26-84	1.87	[h]55			
			- -83	1.15	[h]14			
			07-14-82	1.14	[h]13			
			07- -81	1.57	[h]28			
			09-11-80	1.10	[h]12			
			06-17-79	1.48	[h]24			
			05-02-78	1.53	[h]26			
			09-15-76	1.43	[h]22			
			07-20-74	1.41	[h]21			
			- -73	1.31	[h]18			
			09-02-72	1.36	[h]20			
			09-11-68	0.72	[h]7			
			10-05-66	1.27	[h]17			
			08-01-65	0.81	[h]8			
			09-03-63	0.75	[h]8			
			09-29-62	1.09	[h]12			

Annual maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 2001 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
TULAROSA BASIN--Continued								
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* 1959-96[g] 1999-	09-13-01 03-22-00 09-02-99 10-01-96 07-12-96 09-28-95 08-01-94 08-18-93 09-15-92	5.24 5.40 5.45 4.36 7.03 6.65 6.55 6.44 [h]5.05	141 [h]168 [h]178 41 635 [h]500 [h]466 [h]430 [h]112	07-14-91	12.08	3,000
Three Rivers at Three Rivers. (08481000)	Lat 33°18'12", long 106°04'20", Otero County, Hydrologic Unit 13050003, downstream side of bridge on State Highway 54, 1.3 mi south of Three Rivers. Drainage area is 96.0 mi^2.	1956-77[g] 2000-	09-15-01	5.24	710	08-15-67	[p]7.50	15,000
ESTANCIA BASIN								
Juan Tomas Canyon near Edgewood. (08488100)	Lat 35o04'35", long 106o13'46", Santa Fe County, Hydrologic Unit 13050001, 140 ft upstream from culvert on Interstate Highway 40, 2.5 mi northwest of Edgewood. Drainage area is [a]20 mi^2.	1962-96[g] 1999-	07-21-01 07-05-99	1.07 1.60	15 [h]38	08-01-89	2.48	150
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.	1954-96[g] 1999-	05-14-01	1.57	242	08-09-67	4.23	4,310
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 southeast of Mountainair. Drainage area is 3.90 mi^2.	1953-96[g] 1999-	07-18-01	4.36	81	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.	1959-96[g] 1999-	11-04-00	4.49	780	- - -69	8.75	5,800
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 1976-96[g] 1999-	08-12-01	3.84	2	07-16-66	5.73	900

Station name and number	Location and drainage area	Period of record	Water year 2001 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
			SAN JUAN RIVER BASIN					
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.	1970-96[g] 1999-	- -01	<4.20	<39	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.	1956-95[g] 1999-	12-09-00	1.90	60	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.	1956-96[g] 1999-	04-22-01	0.68	90	08-06-63	9.30	3,450
Burro Canyon near Lindrith. (09357230)	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.	1970-96[g] 1999-	09-17-01	13.97	171	06-29-81	10.87	725
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-	04-22-01	4.21	570	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[*] 1983-96[g] 1999-	09-17-01	1.77	166	01-21-99	--	2,250
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.	1980-96[g] 1999-	09-17-01	2.64	359	09-13-93	2.44	295
			09-18-00	1.24	[h]123			
			07-05-99	0.75	[h]61			
			08-02-96	0.53	[h]37			
			11-12-94	0.46	[h]31			
			- -94	<0.41	<26			
			09-13-93	2.44	[h]321			
			05-10-92	1.77	[h]204			
			08-21-90	1.42	[h]149			
			08-18-89	1.25	[h]125			
			08-06-88	1.87	[h]220			
			09-24-86	0.96	[h]86			
			- -84	<0.40	<25			
			- -83		[h]0			
			09-11-82	1.39	[h]145			
			07-14-81	0.80	[h]67			
			09-10-80	0.95	[h]85			

Station name and number	Location and drainage area	Period of record	Water year 2001 maximum: Date	Gage height (ft)	Discharge (ft^3/s)	Period of record maximum: Date	Gage height (ft)	Discharge (ft^3/s)
			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.	1954-95[g] 1999-	08-10-01	2.01	253	08-06-54	4.70	1,320
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 [a]19 mi^2.	1957-95[g] 1999-	09-17-01	1.48	41	09-05-70	6.40	660
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.	1949-95[g] 1999-	- -01	---	(k)	- -49	4.20	1,360
			GILA RIVER BASIN					
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 [a]228 mi^2.	1957-	08-13-01	2.31	310	01-18-93	11.76	7,400
Mangas Creek near Cliff. (09431130)	Lat 32°51'39", long 108°34'01", Grant County, Hydrologic Unit 1504002, 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.	1986-	08-13-01 06-29-00 08-05-99 07-24-98 09-22-97 09-14-96 [h]08-03-95 09-05-94 01-08-93 08-24-92 07-30-91 09-07-90 07-30-89 08-16-88	5.65 3.27 3.21 4.36 9.49 6.11 9.26 4.15 5.64 4.09 6.18 5.04 4.72 3.02	985 [h]106 [h]95 [h]415 [h]3,720 [h]1,230 [h]3,510 [h]339 [h]980 [h]318 [h]1,270 [h]700 [h]564 [h]66	09-22-97	9.49	3,720
Animas Creek near Cloverdale (09438200)	Lat 31°34'15", long 108°52'30", Hidalgo County, 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-	07-27-01	7.05	2,460	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.	1970-96[g] 1999-	10-28-00	2.97	61	10-02-83	4.35	264

Station name and number	Location and drainage area	Period of record	Water year 2001 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
		GILA RIVER BASIN--Continued						
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.	1954-95[g] 1999-	10-28-00	2.63	443	10-02-83	4.93	2,790
Tularosa River near Reserve (09442740)	Lat 33°44'00", long 108°42'10", Catron County, 150 ft west of Eagle Peak Lookout Road and 3.3 mi northeast of Reserve. Drainage area is 426 mi^2.	1956-86[g] 1997-	10-28-00	4.96	719	10-02-83	9.80	3,020
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.	1959-96[g] 1999-	08-11-01	2.20	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.
o Record not completed for water year.
p Different gage datum.
q Record affected by fire.

Measurements of streamflow at points other than gaging stations are given in the following table.

Discharge Measurements Made at Miscellaneous Sites during Water Year 2001

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		ARKANSAS BASIN				
Conchas Canal 07223300	Canadian River	Lat 35°22'51", long 104°10'58", in 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.	---	1997-	04-30-01 07-17-01 10-02-01	315 369 262
		RIO GRANDE BASIN				
Lea Lake Drain 08394018	Pecos River	Lat 33°18'56", long 104°19'56", in $SW^1/4SE^1/4SW^1/4$ 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-	10-17-00 05-14-01 08-13-01	7.27 7.70 7.06
Castle Springs 08405490	Black River	Lat 32°11'59", long 104°15'13", in $SW^1/4SW^1/4SW^1/4$ 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-	10-17-00 01-26-01 04-09-01 07-30-01	0.921 2.01 1.65 0.52
		GILA RIVER BASIN				
Mangas Creek 09431100	Gila River	Lat 32°50'48", long 108°30'57", in $NW^1/4NE^1/4$ sec. 8, T. 17 S., R. 16 W., Grant County, Hydrologic Unit 15040002, 0.4 mi northwest of Mangas Springs.	177	1970	12-07-00 09-08-01 09-20-01	4.40 4.45 4.13

Montoya Drain Seepage Investigation

REACH.--The Montoya Drain seepage investigation was conducted along the 6.7-mile reach from the head of the drain near Cañutillo, Texas, to the mouth of the drain at the Rio Grande levee road, Sunland Park, New Mexico (314810106324610). Drain miles are referenced upstream from the mouth of the drain, which is designated as drain mile 0.0.

PREVIOUS INVESTIGATIONS.--None.

DATE.--February 6-7,2001 and August 28-29, 2001.

WEATHER.--Weather was favorable with no precipitation during the seepage investigation on February 6-7, 2001. The average daily temperature at La Union, New Mexico was 13 degrees Celsius on February 6 and 14 degrees Celsius on February 7, 2001, with a low of 1 degree Celsius on February 6 and a high of 24 degrees Celsius on February 6. Weather was favorable with no precipitation during the seepage investigation on August 28-29, 2001. The average daily temperature at La Union, New Mexico was 26 degrees Celsius on August 28 and 24 degrees Celsius on August 29, 2001, with a low of 17 degrees Celsius on August 28 and a high of 33 degrees Celsius on August 28.

STREAMFLOW.--The seepage investigation on February 6-7, 2001, was conducted during the non-irrigation season. Discharge measurements indicate a net seepage gain of 4.1 ft^3/s from drain mile 6.7 to drain mile 0.0, with total side-channel inflows of 26.6 ft^3/s. The seepage investigation on August 28-29, 2001, was conducted during the irrigation season. Discharge measurements indicate a net seepage gain of 2.4 ft^3/s from drain mile 6.7 to drain mile 0.0, with total side-channel inflows of 86.0 ft^3/s. Indicated gains (+) and losses (-) throughout the reach are shown below. Tributary flow recorded as inflow is considered a contribution and not a gain; no outflow (diversions) occurred during the investigation. Channel gain or loss includes seepage to or from the unlined channel, evaporation from the water surface, and transpiration by vegetation along the channel banks.

REMARKS.--The seepage investigation conducted on February 6-7, 2001, is rated good based upon steady streamflow conditions. Individual discharge measurements were rated good (within 5 percent) throughout most of the stream reach. Discharge measurements were rated poor (over 8 percent) at drain mile 4.1 and fair (within 8 percent) at drain mile 0.0, Frontera Spur Drain inlet, due to channel conditions.

The seepage investigation conducted on August 28-29, 2001, is rated good based upon steady streamflow conditions. Individual discharge measurements were rated good (within 5 percent) to fair (within 8 percent) throughout most of the stream reach. Discharge measurements were rated poor at drain mile 6.2 and at drain mile 0.0, Frontera Spur Drain Inlet, due to channel conditions. Accuracy of discharge measurements needs to be considered when evaluating indicated gains and losses. Special cooperation by the local irrigation districts to limit spillway inflows during the seepage investigation is gratefully acknowledged.

Drain mile	Stream	Location	Date	Time	Water temperature (°C)	Specific conductance (µS/cm)	Discharge, in ft^3/s: Main stream	Inflow	Gain or loss
6.7	Montoya Drain	At head near Cañutillo, TX Lat 31°52'39", long 106°35'53"	02-06-01 08-28-01	0835 0830	15.5 20.5	990 1,010	[1]0 [1]0	-- --	-- --
6.2	Montoya Drain	At Montoya Road near Cañutillo, TX Lat 31°52'18", long 106°35'46"	02-06-01 08-28-01	0920 1000	11.5 21.5	1,440 1,440	[1]0 0.18	-- --	0 +0.18
4.1	Montoya Drain	At Country Club Place, El Paso, TX Lat 31°50'35", long 106°35'27"	02-06-01 08-28-01	1035 1120	10.5 22.0	3,710 3,740	1.44 2.60	-- --	+1.44 +2.42
2.8	Arroyo Inlet	At Montoya Drain Lat 31°49'41", long 106°34'51"	02-06-01 08-28-01	1355 1355	9.5 25.0	5,680 10,200	-- --	[2]0.017 0.79	-- --
2.8	Nemexas Drain Inlet	At Montoya Drain, El Paso, TX Lat 31°49'39", long 106°34'52"	02-06-01 08-28-01	1445 1500	13.0 24.0	2,310 1,670	-- --	23.0 82.5	-- --
2.0	Montoya Drain	At EPCWID Gage, El Paso, TX Lat 31°49'08", long 106°34'26"	02-07-01 08-28-01 08-29-01	0940 1710 0920	12.0 26.0 22.5	2,810 1,880 1,890	24.5 86.3 87.8	-- -- --	+0.04 +0.41
0.8	Spillway 38 Inlet	At Montoya Main Lateral, Sunland Park, NM Lat 31°48'30", long 106°33'24"	02-07-01 08-29-01	1030 1140	-- 27.0	-- 1,140	-- --	[2]0.035 [1]0	-- --
0.0	Montoya drain	Above Frontera Spur Drain Inlet, Sunland Park, NM Lat 31°48'08", long 106°32'52"	-- 08-29-01	-- 1350	-- 25.5	-- 1,970	-- 87.2	-- --	-- -0.60
0.0	Frontera Spur Drain Inlet	At Sunland Park, NM Lat 31°48'08", long 106°32'52"	02-07-01 08-29-01	1235 1255	18.0 28.0	1,320 1,240	-- --	3.54 [3]2.7	-- --
0.0	Montoya Drain	At river levee road, Sunland Park, NM Lat 31°48'06", long 106°32'50"	02-07-01 08-29-01	1325 --	15.0 --	2,570 --	30.7 [4]--	-- --	+2.62 --

[1] No flow; ponded
[2] Parshall flume
[3] Estimated discharge using velocity-area method in culvert
[4] No discharge measurement; site was not wadable at high flow

Water-quality partial-record stations and water-quality miscellaneous sites are surface-water locations where chemical-quality, biological, and/or sediment data are collected on a limited frequency over a short period of years or once only for use in hydrologic investigations.

RIO GRANDE BASIN

083299375 MARAPOSA DIV OF SAN ANTONIO ARR AT ALBQ., NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ENDING TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L) (00556)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
OCT 23...	0756	--	10.0	10.0	--	1.8	229	--	7.6	--	1	--	--
OCT 23-23	0806	1051	10.0	10.0	1.5	--	174	69	7.7	26	--	.065	.019

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CYANIDE TOTAL (MG/L AS CN) (00720)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
OCT 23...	--	--	--	--	--	<.01	--	--	--	--	--	--	--
OCT 23-23	.86	.248	.185	.132	21	--	61	21.7	1.68	9.9	.6	3.99	5.4

DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
OCT 23...	--	--	--	--	--	--	--	--	--	--	--	--	--
OCT 23-23	13.3	E1.8	3	55.5	<.06	<2.50	E.03	.16	E.6	M	.35	3.2	5.1

DATE	LEAD, DISSOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	THALLIUM, TOTAL (UG/L AS TL) (01059)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SILVER, DISSOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)
OCT 23...	--	--	--	--	--	--	--	--	--	--	--	--	--
OCT 23-23	.20	2	28.1	<10.0	1.1	1.54	4	<1.0	<.43	15	36	.33	16

DATE	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CYANIDE UNFLTRD TOT REC EPA-CONTRACT (MG/L) (99896)
OCT 23...	--	--	--	--	--	--	--	--
OCT 23-23	<2.4	<2.6	.22	120	97	<.14	65	<10

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ENDING TIME	DIBROMOMETHANE WATER WHOLE RECOVER (UG/L) (30217)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	BROMOFORM TOTAL (UG/L) (32104)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	PHENOLS TOTAL (UG/L) (32730)	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)	ACENAPHTHYLENE TOTAL (UG/L) (34200)
OCT 23...	0756	--	<.40	<.40	<.40	<.4	<.40	<.4	<.40	E9	<.40	<.40	--
OCT 23-23	0806	1051	--	--	--	--	--	--	--	--	--	--	<1

RIO GRANDE BASIN

083299375 MARAPOSA DIV OF SAN ANTONIO ARR AT ALBQ., NM--Continued

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ACE-NAPHTH-ENE TOTAL (UG/L) (34205)	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 UNFLTRD RECOVER (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)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-ETHANE TOTAL (UG/L) (34311)
OCT 23...	--	<5	--	--	--	--	--	--	--	--	--	<.40	<.4
OCT 23-23	<.9	--	<1	<2	<2	<1	<.09	<1	<1	<1	<2	--	--

DATE	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 II 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)	CYCLOPE NTADIEN HEXA-CHLORO-UNFLTRD RECOVER (UG/L) (34386)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (UG/L) (34396)	INDENO (1,2,3-CD) PYRENE TOTAL (UG/L) (34403)
OCT 23...	--	--	--	--	--	--	--	<.40	--	--	--	--	--
OCT 23-23	<1	<2	<2	<.6	<.04	<.1	<.2	--	<1	<1	<1	<1.0	<2

DATE	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-PHENYL-AMINE TOTAL (UG/L) (34433)	N-NITRO-SODI-METHYL-AMINE TOTAL (UG/L) (34438)	BENZENE NITRO-WATER UNFLTRD RECOVER (UG/L) (34447)	PARA-CHLORO-META CRESOL TOTAL (UG/L) (34452)	PHENAN-THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)
OCT 23...	--	<.4	<.4	<.4	--	--	--	--	--	--	--	<.4	<.40
OCT 23-23	M	--	--	--	<.9	<1	<2	<2	<2	<1	<1	--	--

DATE	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)	BENZO-[GHI]-PERY-LENE TOTAL (UG/L) (34521)	BENZO-[A]-ANTHRA-CENE WAT UNF (UG/L) (34526)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-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)
OCT 23...	<.40	<.40	<.40	<.40	<.40	--	--	<.40	<.40	<.40	<.4	--	<.40
OCT 23-23	--	--	--	--	--	<1	<1	<1.00	--	--	<1.1	<1	<.90

DATE	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	2-CHLORO-NAPH-THALENE TOTAL (UG/L) (34581)	2-CHLORO-PHENOL TOTAL (UG/L) (34586)	2-NITRO-PHENOL TOTAL (UG/L) (34591)	DI-N-OCTYL PHTHAL-ATE TOTAL (UG/L) (34596)	2,4-DI-CHLORO-PHENOL TOTAL (UG/L) (34601)	2,4-DI-METHYL-PHENOL TOTAL (UG/L) (34606)	2,4-DI-NITRO-TOLUENE TOTAL (UG/L) (34611)	2,4,-DI-NITRO-PHENOL TOTAL (UG/L) (34616)	2,4,6-TRI-CHLORO-PHENOL TOTAL (UG/L) (34621)	2,6-DI-NITRO-TOLUENE TOTAL (UG/L) (34626)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (UG/L) (34631)	4-BROMO-PHENYL PHENYL ETHER TOTAL (UG/L) (34636)
OCT 23..	<.40	--	--	--	--	--	--	--	--	--	--	--	--
OCT 23-23	<1.00	<1	<1	<1	<1	<2	M	<1	<20	<1	<1	<1	<1

RIO GRANDE BASIN

083299375 MARAPOSA DIV OF SAN ANTONIO ARR AT ALBQ., NM--Continued

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	4-CHLORO-PHENYL 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)	PHENOL UNFILT. WATER (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)
OCT 23...	--	--	--	<.4	--	<.4	<.40	<.40	--	--	--	--	--
OCT 23-23	<1	E1	<2	--	<2	<1.2	--	--	M	<.1	<.1	<9	<2

DATE	BENZI-DINE TOTAL (UG/L) (39120)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	P,P' DDT, TOTAL (UG/L) (39300)	P,P' DDD, TOTAL (UG/L) (39310)	P,P' DDE, TOTAL (UG/L) (39320)	ALDRIN, TOTAL (UG/L) (39330)	ALPHA BHC TOTAL (UG/L) (39337)	BETA BENZENE HEXA-CHLOR-IDE TOTAL (UG/L) (39338)	LINDANE TOTAL (UG/L) (39340)	CHLOR-DANE, TECH-NICAL TOTAL (UG/L) (39350)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)
OCT 23...	--	<.4	<.40	--	--	--	--	--	--	--	--	--	--
OCT 23-23	<40	--	--	<.1	<.1	<.04	<.040	<.03	<.03	<.030	<.1	<.020	<.060

DATE	TOX-APHENE, TOTAL (UG/L) (39400)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	AROCLOR 1221 PCB TOTAL (UG/L) (39488)	AROCLOR 1232 PCB TOTAL (UG/L) (39492)	AROCLOR 1248 PCB TOTAL (UG/L) (39500)	AROCLOR 1254 PCB TOTAL (UG/L) (39504)	AROCLOR 1260 PCB TOTAL (UG/L) (39508)	HEXA-CHLORO-BENZENE TOTAL (UG/L) (39700)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	STYRENE TOTAL (UG/L) (77128)	1,1-DI CHLORO-PRO-PENE, WAT, WH TOTAL (UG/L) (77168)
OCT 23...	--	--	--	--	--	--	--	--	--	<.4	<.40	<.40	<.40
OCT 23-23	<2	<.030	<.800	<1	<.1	<.1	<.1	<.1	<1	<1.3	--	--	--

DATE	2,2-DI CHLORO-PRO-PANE WAT, WH TOTAL (UG/L) (77170)	1,3-DI-CHLORO-PROPANE WAT. WH TOTAL (UG/L) (77173)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	METHANE BROMO CHLORO-WAT UNFLTRD REC (UG/L) (77297)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE SEC BUTYL-WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)
OCT 23...	<.40	<.4	<.40	<.40	<.40	<.40	<.40	<.40	<.40	<.4	<.40	<.40	<.40
OCT 23-23	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	123-TRI CHLORO-PROPANE WATER WHOLE TOTAL (UG/L) (77443)	ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) (77562)	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) (77613)	1,2-DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	BROMO-BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	DIBROMO CHLORO-PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (UG/L) (82626)
OCT 23...	<.4	<.40	<.4	<.40	<.40	<.4	<.4	<.40	<2.0	--
OCT 23-23	--	--	--	--	--	--	--	--	--	<1

Remark codes used in this report:
< -- Less than
E -- Estimated value

Null value remark codes used in this report:
M -- Presence verified, not quantified

RIO GRANDE BASIN

08330200 SAN JOSE DRAIN AT WOODWARD RD AT ALBQ., NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ENDING TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	DISCHARGE, IN CUBIC FEET PER SECOND (00060)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L) (00556)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
NOV 04...	0939	--	8.5	9.5	--	4.9	143	--	8.3	--	4	--	--
NOV 04-04	0941	1256	8.5	9.5	13	--	112	89	8.4	204	--	.218	.055

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CYANIDE TOTAL (MG/L AS CN) (00720)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
NOV 04...	--	--	--	--	--	.58	--	--	--	--	--	--	--
NOV 04-04	1.7	.399	.520	.127	23	--	44	15.4	1.24	4.8	.3	3.24	3.6

DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
NOV 04...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 04-04	7.2	E1.2	3	23.3	<.06	<2.50	E.04	.57	<.8	6	.23	4.4	27.5

DATE	LEAD, DISSOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	THALLIUM, TOTAL (UG/L AS TL) (01059)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SILVER, DISSOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)
NOV 04...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 04-04	.88	51	7.9	<10.0	3.9	.90	6	<1.0	<.43	7	171	.50	6

DATE	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	CYANIDE UNFLTRD TOT REC EPA-CONTRACT (MG/L) (99896)
NOV 04...	--	--	--	--	--	--	--	--
NOV 04-04	<2.4	<2.6	.31	78	76	<.14	64	20

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ENDING TIME	DIBROMOMETHANE WATER WHOLE RECOVER (UG/L) (30217)	BROMODICHLOROMETHANE TOTAL (UG/L) (32101)	CARBON TETRACHLORIDE TOTAL (UG/L) (32102)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	BROMOFORM TOTAL (UG/L) (32104)	CHLORODIBROMOMETHANE TOTAL (UG/L) (32105)	CHLOROFORM TOTAL (UG/L) (32106)	PHENOLS TOTAL (UG/L) (32730)	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)	ACENAPHTHYLENE TOTAL (UG/L) (34200)
NOV 04...	0939	--	<.20	<.20	<.20	<.2	<.20	<.2	<.20	<16	<.20	<.20	--
NOV 04-04	0941	1256	--	--	--	--	--	--	--	--	--	--	<1

RIO GRANDE BASIN

08330200 SAN JOSE DRAIN AT WOODWARD RD AT ALBQ., NM--Continued

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	ACE-NAPHTH-ENE TOTAL (UG/L) (34205)	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 UNFLTRD RECOVER (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)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-ETHANE TOTAL (UG/L) (34311)
NOV 04...	--	<2	--	--	--	--	--	--	--	--	--	<.20	<.2
NOV 04-04	M	--	<1	M	M	M	<.09	<1	<1	<1	<2	--	--

DATE	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 II 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)	CYCLOPE NTADIEN HEXA-CHLORO-UNFLTRD RECOVER (UG/L) (34386)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (UG/L) (34396)	INDENO (1,2,3-CD) PYRENE TOTAL (UG/L) (34403)
NOV 04...	--	--	--	--	--	--	--	<.20	--	--	--	--	--
NOV 04-04	M	<2	<2	<.6	<.04	<.1	<.2	--	M	M	<1	<1.0	M

DATE	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-PHENYL-AMINE TOTAL (UG/L) (34433)	N-NITRO-SODI-METHYL-AMINE TOTAL (UG/L) (34438)	BENZENE NITRO-WATER UNFLTRD RECOVER (UG/L) (34447)	PARA-CHLORO-META CRESOL TOTAL (UG/L) (34452)	PHENAN-THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)
NOV 04...	--	<.2	<.2	<.2	--	--	--	--	--	--	--	<.2	<.20
NOV 04-04	M	--	--	--	<.9	<1	<2	<2	<2	M	M	--	--

DATE	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)	BENZO-[GHI]-PERY-LENE TOTAL (UG/L) (34521)	BENZO-[A]-ANTHRA-CENE WAT UNF (UG/L) (34526)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-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)
NOV 04...	<.20	<.20	<.20	<.20	<.20	--	--	<.20	<.20	<.20	<.2	--	<.20
NOV 04-04	--	--	--	--	--	M	M	<1.00	--	--	<1.1	<1	<.90

DATE	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	2-CHLORO-NAPH-THALENE TOTAL (UG/L) (34581)	2-CHLORO-PHENOL TOTAL (UG/L) (34586)	2-NITRO-PHENOL TOTAL (UG/L) (34591)	DI-N-OCTYL PHTHAL-ATE TOTAL (UG/L) (34596)	2,4-DI-CHLORO-PHENOL TOTAL (UG/L) (34601)	2,4-DI-METHYL-PHENOL TOTAL (UG/L) (34606)	2,4-DI-NITRO-TOLUENE TOTAL (UG/L) (34611)	2,4,-DI-NITRO-PHENOL TOTAL (UG/L) (34616)	2,4,6-TRI-CHLORO-PHENOL TOTAL (UG/L) (34621)	2,6-DI-NITRO-TOLUENE TOTAL (UG/L) (34626)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (UG/L) (34631)	4-BROMO-PHENYL PHENYL ETHER TOTAL (UG/L) (34636)
NOV 04...	<.20	--	--	--	--	--	--	--	--	--	--	--	--
NOV 04-04	E.09	<1	<1	<1	<1	<2	M	<1	<20	<1	<1	<1	<1

RIO GRANDE BASIN

08330200 SAN JOSE DRAIN AT WOODWARD RD AT ALBQ., NM--Continued

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	4-CHLORO-PHENYL 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)	PHENOL UNFILT. WATER (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)
NOV 04...	--	--	--	<.2	--	<.2	<.20	<.20	--	--	--	--	--
NOV 04-04	<1	E2	<2	--	E3	E.4	--	--	4	<.1	<.1	M	<2

DATE	BENZI-DINE TOTAL (UG/L) (39120)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	P,P' DDT, TOTAL (UG/L) (39300)	P,P' DDD, TOTAL (UG/L) (39310)	P,P' DDE, TOTAL (UG/L) (39320)	ALDRIN, TOTAL (UG/L) (39330)	ALPHA BHC TOTAL (UG/L) (39337)	BETA BENZENE HEXA-CHLOR-IDE TOTAL (UG/L) (39338)	LINDANE TOTAL (UG/L) (39340)	CHLOR-DANE, TECH-NICAL TOTAL (UG/L) (39350)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)
NOV 04...	--	<.2	<.20	--	--	--	--	--	--	--	--	--	--
NOV 04-04	<40	--	--	<.1	<.1	<.04	<.040	<.03	<.03	<.030	.1	<.020	<.060

DATE	TOX-APHENE, TOTAL (UG/L) (39400)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	AROCLOR 1221 PCB TOTAL (UG/L) (39488)	AROCLOR 1232 PCB TOTAL (UG/L) (39492)	AROCLOR 1248 PCB TOTAL (UG/L) (39500)	AROCLOR 1254 PCB TOTAL (UG/L) (39504)	AROCLOR 1260 PCB TOTAL (UG/L) (39508)	HEXA-CHLORO-BENZENE TOTAL (UG/L) (39700)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	STYRENE TOTAL (UG/L) (77128)	1,1-DI CHLORO-PRO-PENE, WAT, WH TOTAL (UG/L) (77168)
NOV 04...	--	--	--	--	--	--	--	--	--	<.2	<.20	<.20	<.20
NOV 04-04	<2	<.030	<.800	<1	<.1	<.1	<.1	<.1	<1	<1.3	--	--	--

DATE	2,2-DI CHLORO-PRO-PANE WAT, WH TOTAL (UG/L) (77170)	1,3-DI-CHLORO-PROPANE WAT. WH TOTAL (UG/L) (77173)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	METHANE BROMO CHLORO-WAT UNFLTRD REC (UG/L) (77297)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE SEC BUTYL-WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)
NOV 04...	<.20	<.2	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.2	<.20	<.20	<.20
NOV 04-04	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	123-TRI CHLORO-PROPANE WATER WHOLE TOTAL (UG/L) (77443)	ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) (77562)	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) (77613)	1,2-DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	BROMO-BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	DIBROMO CHLORO-PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (UG/L) (82626)
NOV 04...	<.2	<.20	<.2	<.20	<.20	<.2	<.2	<.20	<1.0	--
NOV 04-04	--	--	--	--	--	--	--	--	--	<1

Remark codes used in this report:
< -- Less than
E -- Estimated value

Null value remark codes used in this report:
M -- Presence verified, not quantified

RIO GRANDE BASIN

The following water-quality tables for miscellaneous sites in the Rio Grande Basin are identified by 15-digit latitude-longitude site numbers and are in order by ascending site number (shown before the site name). This departure from the normal downstream order for surface-water sites was taken to facilitate locating these sites in this report and for comparing results for the same group of analyses.

314808106325210 MONTOYA DRAIN ABOVE FRONTERA SPUR DRAIN INLET

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
AUG 29...	1300	25.5	31.0	665	87	1970	5.6	79	8.1	2	304	E.107	E.027

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
AUG 29...	3.7	E.414	.357	.199	E.167	340	88	98.6	23.0	288	7	7.16	225

DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	BORON, DISSOLVED (UG/L AS B) (01020)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	TURBIDITY LAB HACH 2100AN (NTU) (99872)
AUG 29...	416	.9	30.0	403	252	1290	1240	.29	267	43

Remark codes used in this report:
E -- Estimated value

RIO GRANDE BASIN

314810106324610 MONTOYA DRAIN AT SUNLAND PARK, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
FEB 07...	1230	15.0	23.5	671	31	16	2570	11.1	126	8.2	.0	331	.635

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
FEB 07...	.043	1.3	.290	.630	.503	.478	410	140	121	26.8	416	9	8.31

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	BORON, DISSOLVED (UG/L AS B) (01020)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
FEB 07...	330	540	1.0	32.9	509	271	1700	1640	.40	282

RIO GRANDE BASIN

314908106342610 MONTOYA DRAIN AT EPCWID GAGE, EL PASO, TX

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
FEB													
07...	0920	12.0	17.5	672	24	21	2810	6.6	70	8.1	.0	381	.994
AUG													
29...	0915	22.5	22.0	667	88	--	1910	5.2	69	8.0	2	322	E.137

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
FEB													
07...	.051	1.9	.221	.827	.669	.654	430	120	124	30.7	455	10	8.37
AUG													
29...	E.026	.73	E.424	.326	.178	E.117	340	76	99.0	23.4	272	6	6.95

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	BORON, DISSOLVED (UG/L AS B) (01020)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	TURBIDITY LAB HACH 2100AN (NTU) (99872)
FEB											
07...	368	561	.9	32.4	552	312	1850	1770	.46	319	--
AUG											
29...	213	394	.8	29.4	399	267	1240	1200	.28	277	41

Remark codes used in this report:
E -- Estimated value

RIO GRANDE BASIN

314939106345210 NEMEXAS DRAIN INLET AT MONTOYA DRAIN, EL PASO, TX

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
FEB													
06...	1410	13.0	24.5	671	23	20	2310	7.3	79	8.2	.0	387	.347
AUG													
28...	1430	24.0	35.0	665	82	--	1670	5.2	72	8.1	2	317	E.080

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
FEB													
06...	.024	1.4	.201	.530	.298	.283	410	92	116	29.2	364	8	7.24
AUG													
28...	E.020	.94	E.353	.286	E.053	E.024	330	63	93.6	22.4	231	6	6.55

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	BORON, DISSOLVED (UG/L AS B) (01020)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	TURBIDITY LAB HACH 2100AN (NTU) (99872)
FEB											
06...	242	495	.9	34.1	503	317	1530	1480	.40	329	--
AUG											
28...	155	360	.8	29.0	363	263	1100	1060	.25	273	49

Remark codes used in this report:
E -- Estimated value

RIO GRANDE BASIN

315035106352710 MONTOYA DRAIN AT COUNTRY CLUB PLACE, EL PASO, TX

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBIDITY (NTU) (00076)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)
FEB													
06...	1005	10.5	16.0	663	1.4	17	3710	6.5	68	8.1	.0	398	.090
AUG													
28...	1015	22.0	31.0	666	2.6	--	3740	4.7	63	7.9	2	407	E.161

DATE	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
FEB													
06...	<.006	.48	E.024	E.054	<.060	.018	400	70	106	31.7	679	15	6.39
AUG													
28...	E.006	.59	E.032	.113	E.031	E.019	390	49	102	31.7	660	15	6.29

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	BORON, DISSOLVED (UG/L AS B) (01020)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	TURBIDITY LAB HACH 2100AN (NTU) (99872)
FEB											
06...	583	670	1.0	34.4	808	326	2380	2310	.48	353	--
AUG											
28...	596	675	.9	42.9	801	338	2440	2320	.51	359	23

Remark codes used in this report:
< -- Less than
E -- Estimated value

TULAROSA VALLEY BASIN

The following water-quality tables for miscellaneous sites in the Tularosa Valley Basin are identified by 15-digit latitude-longitude site numbers and are in order by ascending site numbers as shown before the site names. This departure from the normal downstream order for surface-water sites was taken to facilitate locating these sites in this report and for comparing results for the same group of analyses.

330716106234510 SALT CREEK 3 AT RANGE ROAD 6 ON WSMR, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
MAY 14...	1100	19.5	22.5	664	.76	51800	7.4	114	8.8	8	65	.098	.055

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
MAY 14...	1.2	1.6	.469	.087	.018	.020	4300	4300	825	547	8530	57	264

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BORON, DISSOLVED (UG/L AS B) (01020)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
MAY 14...	17400	6250	2.8	1.8	<24.0	4	48.5	50.8	1580	1430	E1.20	<1.00	<9.6

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, DISSOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SILVER, DISSOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR) (01082)
MAY 14...	<11	7.7	84.3	<210	<500	7.09	24	232	<160	<.2	<4.73	21200	24000

DATE	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI) (01132)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	MERCURY DISSOLVED (UG/L AS HG) (71890)
MAY 14...	<1000	<465	<420	<450	2610	2430	<29.0	E1.4	67	38800	33900	3.89	<.01

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
MAY 14...	.01	72

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	2,4-DP TOTAL (UG/L) (82183)
MAY 14...	1100	<.01	<.01	<.01	<.04

Remark codes used in this report:
< -- Less than
E -- Estimated value

TULAROSA VALLEY BASIN

331158106265710 SALT CREEK NEAR NW-50 ON WSMR, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
MAY 14...	1300	29.0	25.0	663	1.4	48000	14.8	265	9.8	22	11	E.032	<.006

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
MAY 14...	.87	.94	E.031	.040	.017	E.017	5100	5000	899	681	10400	64	240

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BORON, DISSOLVED (UG/L AS B) (01020)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
MAY 14...	15900	6310	4.3	<2.4	<20.0	E7	1.7	53.2	1520	1550	<2.00	<1.00	<9.6

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, DISSOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SILVER, DISSOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR) (01082)
MAY 14...	5	<13.0	<14.0	<170	560	<10.0	E7	39	<160	<2.0	<4.00	23400	22500

DATE	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI) (01132)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	MERCURY DISSOLVED (UG/L AS HG) (71890)
MAY 14...	<1000	<372	<336	450	3060	2710	<24.0	<13.0	46	36000	34500	3.49	<.10

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
MAY 14...	<.01	61

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	2,4-DP TOTAL (UG/L) (82183)
MAY 14...	1300	<.01	<.01	<.01	<.04

Remark codes used in this report:
< -- Less than
E -- Estimated value

TULAROSA VALLEY BASIN

332057106211310 SALT CREEK 4 AT RANGE ROAD 7 ON WSMR, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)
MAY 15...	1400	23.5	31.5	656	.38	16200	8.6	125	8.3	6	167	<.040	.062

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
MAY 15...	.30	.67	.568	.082	.009	<.020	2100	1900	578	147	2980	29	58.5

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BORON, DISSOLVED (UG/L AS B) (01020)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
MAY 15...	4850	1650	1.5	14.9	<8.0	E2	253	238	385	385	<.70	<.60	<4.0

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, DISSOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SILVER, DISSOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR) (01082)
MAY 15...	2	6.0	E5.6	890	<100	<4.00	E3	390	357	<.6	<2.00	11900	11100

DATE	ZINC, DISSOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI) (01132)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	MERCURY DISSOLVED (UG/L AS HG) (71890)
MAY 15...	<200	<124	1280	150	748	644	<10.0	<5.0	147	10600	10400	.87	<.04

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
MAY 15...	<.01	115

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	2,4-DP TOTAL (UG/L) (82183)
MAY 15...	1400	<.01	<.01	<.01	<.04

Remark codes used in this report:
< -- Less than
E -- Estimated value

TULAROSA VALLEY BASIN

342650106224910 CANYON ESPINOSA ON SALINAS PUEBLO MISSIONS NAT MON

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TEMPERATURE WATER (DEG C) (00010)	TEMPERATURE AIR (DEG C) (00020)	BAROMETRIC PRESSURE (MM OF HG) (00025)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
NOV													
29...	1000	2.0	4.5	617	.03	880	9.0	81	7.8	.0	455	<.041	<.047
FEB													
27...	1330	6.5	14.0	609	.05	843	8.0	82	7.8	.0	420	<.041	<.047
MAY													
03...	1030	12.5	22.0	607	.02	806	7.6	90	7.9	.0	410	<.041	<.047

DATE	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
NOV			
29...	<.018	93.9	369
FEB			
27...	<.018	89.0	344
MAY			
03...	<.018	77.2	336

Remark codes used in this report:
< -- Less than

BERNALILLO COUNTY
Albuquerque Area

350256106390801. Local number, 10N.03E.32.314.
LOCATION.--Lat 35°02'56", long 106°39'09", Hydrologic Unit 13020203.
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 measurement.
DATUM.--Elevation of land-surface datum is 4,941 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--1982 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.07 ft below land-surface datum, Jan. 5, 1987; lowest measured, 45.47 ft below land-surface datum, July 16, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	40.17	35.49	33.69	33.87	35.09	33.27	35.98	37.70	38.73	40.25	40.75	39.10
10	38.18	35.50	34.54	33.45	33.45	34.18	35.66	36.96	40.81	39.80	40.36	40.04
15	36.92	34.73	34.69	33.11	33.70	34.46	35.60	36.54	41.40	39.44	39.00	39.53
20	36.33	33.78	34.58	33.99	33.92	33.55	35.30	38.02	40.56	41.05	37.09	38.64
25	35.89	34.46	34.19	34.98	33.82	35.79	35.50	37.85	41.04	41.28	39.49	39.46
EOM	35.16	34.34	33.86	35.21	33.28	36.62	36.46	38.95	40.89	40.21	40.25	40.30

WTR YEAR 2001 HIGHEST 33.06 FEB 12-13 LOWEST 42.02 JUN 24

351051106395304. Local number, 11N.03E.18.411D.
LOCATION.--Lat 35°10'51", long 106°39'53", Hydrologic Unit 13020203.
AQUIFER.--Santa Fe Group.
WELL CHARACTERISTICS.--Drilled water-table observation well, casing diameter 6 in., with 2-in., pvc 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. pvc, 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, 46.66 ft below land-surface datum, July 26, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 21	45.05	JAN 11	43.81	FEB 15	42.00	APR 16	44.42	JUN 13	46.01	AUG 28	46.09
DEC 13	44.35	23	43.70	MAR 12	43.67	MAY 10	45.24	JUL 26	46.66	SEP 24	46.04

CHAVES COUNTY
Roswell Basin

334138104343801. (formerly 334645104344501) Local number, 07S.23E.23.24431.
LOCATION.--Lat 33°41'38", long 104°34'38", Hydrologic Unit 13060005.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 27	270.80	JUL 11	259.61

332615104303601. Local number, 10S.24E.21.212222.
LOCATION.--Lat 33°26'15", long 104°30'36", Hydrologic Unit 13060008.
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. Monthly steel-tape measurements.
PERIOD OF RECORD.--June 1940 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.06 ft below land-surface datum, Jan. 19, 1946; lowest measured, 74.40 ft below land-surface datum, July 30, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05	39.90	DEC 05	34.10	FEB 05	31.50	APR 05	33.70	JUN 05	37.40	AUG 06	43.10
16	38.50	15	33.45	15	31.25	16	34.00	15	38.50	15	42.20
25	37.00	27	33.00	26	31.55	25	35.20	25	38.80	24	41.55
NOV 06	35.75	JAN 05	32.65	MAR 05	31.30	MAY 04	35.65	JUL 05	40.90	SEP 05	41.30
15	35.10	16	32.20	15	31.00	15	35.20	16	41.80	14	41.05
22	34.80	25	31.80	26	31.80	25	37.00	25	41.95	25	41.10

CHAVES COUNTY--Continued
Roswell Basin

332255104360401. Local number, 11S.23E.03.342223.
LOCATION.--Lat 33°22'55", long 104°36'04", Hydrologic Unit 13060008.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 27	171.31	JUL 11	175.98

331914104253701. (formerly 331930104261001) Local number, 11S.25E.29.34333.
LOCATION.--Lat 33°19'14", long 104°25'37", Hydrologic Unit 13060007.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL
FEB 28	17.89

331705104262801. (formerly 332200104270001) Local number, 12S.25E.09.42230.
LOCATION.--Lat 33°17'05", long 104°26'28", Hydrologic Unit 13060007.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 28	66.02	JUL 13	67.88

331525104245201. (formerly 331205104245101) Local number, 12S.25E.23.344412.
LOCATION.--Lat 33°15'25", long 104°24'52", Hydrologic Unit 13060007.
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 measurement.
DATUM.--Elevation of land-surface datum is 3,540 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.30 ft above land-surface datum.
REMARKS.--Records fair.
PERIOD OF RECORD.--Jan. 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.95 ft below land-surface datum, Feb. 9, 1998; lowest measured, 199.68 ft below land-surface datum, June 20, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	66.42	25.64	15.78	11.52	7.44	11.78	85.09	47.39	109.62	135.33	125.40	64.83
10	49.75	23.33	14.94	10.71	7.18	9.17	90.13	57.53	98.42	133.32	120.73	77.50
15	47.08	21.36	14.28	10.40	9.17	19.45	86.76	43.32	115.90	134.52	100.59	72.00
20	42.66	19.90	14.41	9.53	13.92	30.45	102.07	66.54	128.22	139.94	77.10	76.12
25	36.33	18.76	14.69	9.15	13.43	43.89	85.58	94.91	122.38	132.60	85.10	61.96
EOM	29.26	16.94	12.40	8.45	15.85	70.26	62.40	102.81	126.43	123.26	81.74	65.57

WTR YEAR 2001 HIGHEST 6.90 FEB 12 LOWEST 144.89 JUL 18

CHAVES COUNTY--Continued
Roswell Basin

331524104245101. Local number, 12S.25E.23.344234A.
LOCATION.--Lat 33°15'24", long 104°24'51", Hydrologic Unit 13060007.
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 measurement.
DATUM.--Elevation of land-surface datum is 3,540 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelf, 2.40 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--1942 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 99.32 ft below land-surface datum, Apr. 14, 2000; lowest measured, 111.17 below land-surface datum, Sept. 22, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	101.07	100.93	100.80	100.62	100.28	100.17	99.85	99.75	99.74	99.95	100.31	100.54
10	100.97	101.06	100.80	100.57	100.30	99.95	99.71	99.73	99.76	100.01	100.34	100.68
15	101.06	100.97	100.68	100.52	100.25	100.08	99.89	99.73	99.84	100.04	100.38	100.67
20	101.09	101.12	100.67	100.49	100.24	99.99	99.77	99.69	99.88	100.10	100.43	100.70
25	101.09	101.02	100.74	100.40	100.24	99.93	99.86	99.71	99.89	100.17	100.48	100.72
EOM	101.08	100.90	100.69	100.48	100.15	99.97	99.79	99.70	99.95	100.24	100.56	100.79

WTR YEAR 2001 HIGHEST 99.67 JUN 2-3, 12 LOWEST 101.24 NOV 20

331213104241601. (formerly 331216104241701) Local number, 13S.25E.12.311134.
LOCATION.--Lat 33°12'13", long 104°24'16", Hydrologic Unit 13060007.
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, 94.31 ft below land-surface datum, Aug. 15, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 28	84.60	JUL 11	91.40

331002104254701. (formerly 331002104272001) Local number, 13S.25E.27.211144.
LOCATION.--Lat 33°10'02", long 104°25'47", Hydrologic Unit 13060007.
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, +3.49 ft above land-surface datum, Feb. 5, 1999; lowest measured, 198.30 ft below land-surface datum, July 18, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM (READINGS ABOVE LAND-SURFACE INDICATED BY "+"), WATER YEAR OCTOBER 2000 TO SEPTEMBER, 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05	73.51	DEC 15	6.65	FEB 26	2.80	MAY 04	52.81	JUL 11	168.66	SEP 14	87.20
16	46.66	27	4.00	MAR 05	4.39	15	53.71	16	171.39	25	72.00
25	33.51	JAN 05	2.86	15	21.01	25	129.11	25	167.01		
NOV 06	20.32	16	1.42	26	61.83	JUN 05	139.52	AUG 06	151.46		
15	14.82	25	+.41	APR 05	113.51	15	149.01	15	125.87		
22	12.17	FEB 05	+2.29	16	112.51	25	153.91	24	95.79		
DEC 05	7.92	15	1.79	25	103.41	JUL 05	179.32	SEP 05	85.11		

330702104402401. (formerly 330700104402501) Local number, 14S.23E.08.144344.
LOCATION.--Lat 33°07'02", long 104°40'24", Hydrologic Unit 13060009.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 28	286.37	JUL 11	288.38

CHAVES COUNTY--Continued
Roswell Basin

330646104173301. (formerly 330640104174501) Local number, 14S.26E.12.431331.
LOCATION.--Lat 33°06'46", long 104°17'33", Hydrologic Unit 13060007.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 28	17.70	JUL 11	18.99

330404104221201. Local number, 14S.26E.30.44444.
LOCATION.--Lat 33°04'04", long 104°22'12", Hydrologic Unit 13060007.
AQUIFER.--San Andres Limestone.
WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 8 5/8 in., depth 1,150 ft, cased to 740 ft, open hole 740-1,150 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 3,484 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing 1.00 ft above land-surface datum.
PERIOD OF RECORD.--Feb. 1970 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 58.10 ft below land-surface datum, Feb. 11, 1993; lowest measured, 292.45 ft below land-surface datum, Aug. 5, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 05	74.06	FEB 28	78.55	JUL 05	259.73

CIBOLA COUNTY
Grants-Bluewater Area

350346107521201. (formerly 350400107510501) Local number, 10N.10W.26.331.
LOCATION.--Lat 35°03'46", long 107°52'12", Hydrologic Unit 13020207.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 22	29.79	JUL 02	29.02

350923107522701. (formerly 350925107523001) Local number, 11N.10W.27.241.
LOCATION.--Lat 35°09'23", long 107°52'27", Hydrologic Unit 13020207.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 22	28.67	JUL 02	32.87

CIBOLA COUNTY--Continued
Grants-Bluewater Area

351304107543701. (formerly 351400107524201) Local number, 12N.10W.29.434.
LOCATION.--Lat 35°13'04", long 107°54'37", Hydrologic Unit 13020207.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 22	83.50	JUL 02	84.99

351651107594501. (formerly 351650107535001) Local number, 12N.11W.09.424.
LOCATION.--Lat 35°16'51", long 107°59'45", Hydrologic Unit 13020207.
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.--Periodic 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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 22	111.74	JUL 02	113.32

351630107572801. (formerly 351637107584501) Local number, 12N.11W.14.213.
LOCATION.--Lat 35°16'30", long 107°57'28", Hydrologic Unit 13020207.
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, Sep. 25, 1986; lowest measured, 101.39 ft below land-surface datum, June 10, 1954.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 22	86.92	JUL 02	87.48

COLFAX COUNTY
Capulin Basin

364522104034501. (formerly 364500104031501) Local number, 29N.27E.16.222.
LOCATION.--Lat 36°45'22", long 104°03'45", Hydrologic Unit 11040001.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL
JUL 06	8.20

COSTILLA COUNTY (in Colorado)
Sunshine Valley

370004105402201.(formerly 370009105410001). Local number, 01N.74W.33.322.
LOCATION.--Lat 37°00'04", long 105°40'22", Hydrologic Unit 13020101.
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, Sept. 2, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL
FEB 27	124.38

CURRY COUNTY
Clovis Area

341836103052001. Local number, 01N.37E.17.113133
LOCATION.--Lat 34°18'53", long 103°05'26", Hydrologic Unit 12050002
AQUIFER.--Ogallala.
WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 16 in., depth 373 ft, screened 293-373 ft.
INSTRUMENTATION.--Digital recorder, 1-hour punch.
DATUM.--Elevation of land-surface datum is 4,113 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top edge of recorder shelter apron, 3.93 ft above land-surface datum.
REMARKS.--Records fair, missing record due to recorder malfunction.
PERIOD OF RECORD.--Jan. 1972 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 158.17 ft below land-surface datum, Jan. 28, 1972; lowest measured, 289.33 ft below land-surface datum, Sept. 6, 2001.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	283.71	283.75	282.75	281.87	---	---	280.81	282.07	284.53	287.58	289.10	289.24
10	283.45	283.40	282.68	281.80	---	---	281.19	283.01	285.41	287.56	289.01	289.11
15	283.81	283.45	282.46	281.72	---	---	281.22	283.73	285.73	287.92	288.87	288.85
20	283.69	282.94	282.14	---	---	281.13	281.41	283.59	286.30	288.47	288.79	288.57
25	283.54	283.03	282.10	---	---	281.00	281.38	283.94	287.31	289.06	289.06	288.33
EOM	283.70	282.95	281.90	---	---	280.28	281.91	283.97	287.27	289.22	289.17	288.25

WTR YEAR 2001 HIGHEST 280.28 MAR 31 LOWEST 289.33 SEP 06

342358103093601. Local number, 02N.36E.15.11111.
LOCATION.--Lat 34°23'58", long 103°09'36", Hydrologic Unit 12050002.
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, 304.47 ft below land-surface datum, July 31, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 09	292.44	JUL 09	PUMPING

342736103203701. (formerly 342815103270001) Local number, 03N.34E.23.433133.
LOCATION.--Lat 34°27'36", long 103°20'37", Hydrologic Unit 12050001.
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, 360.94 ft below land-surface datum, July 9, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 09	360.54	JUL 09	360.94

CURRY COUNTY--Continued
Clovis Area

343347103345001. Local number, 04N.32E.22.111114.
LOCATION.--Lat 34°33'47", long 103°34'50", Hydrologic Unit 12050001.
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.--Records fair. Lost record due to recorder malfunction.
PERIOD OF RECORD.--Jan. 1980 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 295.61 ft above land-surface datum, Sept. 7, 2001; lowest measured, 309.92 ft below land-surface datum, Jan. 9, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	296.06	295.54	295.71	---	295.73	296.21	296.05	295.70	295.87	295.75	295.75	295.66
10	295.80	295.98	295.85	295.72	296.03	295.59	295.55	295.67	295.71	295.75	295.76	295.92
15	---	295.72	---	295.99	295.89	296.02	296.02	295.64	296.10	295.64	295.58	295.59
20	---	296.16	---	295.79	295.96	296.02	295.63	295.60	295.84	295.75	295.68	295.69
25	---	295.95	---	295.75	296.12	295.96	295.95	295.85	295.79	295.78	295.72	295.64
EOM	295.90	295.85	---	296.19	295.96	296.03	295.80	295.89	295.80	295.72	295.71	295.85

WTR YEAR 2001 HIGHEST 295.61 SEP 07 LOWEST 296.22 FEB 17

343615103123801. Local number, 05N.35E.35.31324.
LOCATION.--Lat 34°36'15", long 103°12'38", Hydrologic Unit 12050005.
AQUIFER.--Ogallala Formation.
WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 527 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 4,504 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing 0.50 ft above land-surface datum.
PERIOD OF RECORD.--Jan. 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 376.40 ft below land-surface datum, Mar. 26, 1954; lowest measured, 456.48 ft below land-surface datum, July 9, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 09	456.02	JUL 09	456.48

DONA ANA COUNTY
Rincon and Mesilla Valleys

322203106484101. (formerly 322210106483001) Local number, 22S.01E.26.411.
LOCATION.--Lat 32°22'03", long 106°48'41", Hydrologic Unit 13030102.
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, 9.56 ft below land-surface datum, July 24, 2001; lowest measured, 25.57 ft below land-surface datum, Apr. 25, 1957.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 14	12.22	JUL 24	9.56

Tularosa Basin

322323106314701. Local number, 22S.04E.15.331.
LOCATION.--Lat 32°23'23", long 106°31'47".
AQUIFER.--Bolson fill.
WELL CHARACTERISTICS.--4-in. diameter PVC casing, depth 295 ft, screen interval 125-285 ft.
INSTRUMENTATION.--Pressure transducer, 1-hour measurement.
DATUM.--Elevation of land-surface datum is 4,622 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 8-in. steel surface casing on north side at 1.65 ft. above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--December 1998 to current.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 66.40 ft below land-surface datum, Apr. 21, 1999; lowest measured, 68.68 ft below land-surface datum, Sept. 11 and 12, 2001.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	68.15	68.11	68.07	67.95	67.80	67.78	67.66	67.65	67.95	68.35	68.47	68.57
10	68.19	68.09	67.98	67.84	67.76	67.65	67.59	67.74	68.07	68.38	68.48	68.64
15	68.16	68.12	67.99	67.83	67.74	67.68	67.68	67.77	68.12	68.39	68.43	68.49
20	68.20	68.20	67.96	67.88	67.79	67.75	67.63	67.76	68.20	68.44	68.45	68.58
25	68.20	68.08	67.90	67.84	67.74	67.69	67.72	67.85	68.24	68.40	68.48	68.61
EOM	68.16	68.09	67.94	67.80	67.73	67.65	67.70	67.92	68.29	68.45	68.49	68.57

WTR YEAR 2001 HIGHEST 67.59 APR 10, 21 LOWEST 68.68 SEP 11, 12

DONA ANA COUNTY--Continued
Rincon and Mesilla Valleys

321606106462901. (formerly 321620106461501) Local number, 23S.02E.31.213.
LOCATION.--Lat 32°16'06", long 106°46'29", Hydrologic Unit 13030102.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 14	20.94	JUL 24	20.47

EDDY COUNTY
Roswell Basin

325702104352801. (formerly 325735104360701) Local number, 16S.24E.04.411341.
LOCATION.--Lat 32°57'02", long 104°35'28", Hydrologic Unit 13060007.
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, 52.48 ft below land-surface datum, Jan. 29, 1996; lowest measured, 100.54 ft below land-surface datum, Aug. 27, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL
FEB 28	59.69

325638104274801. Local number, 16S.25E.11.111131A.
LOCATION.--Lat 32°56'38", long 104°27'48", Hydrologic Unit 13060007.
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, 67.25 ft below land-surface datum, July 26, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	65.77	DEC 12	64.89	FEB 21	64.10	APR 25	65.56	JUN 27	66.80	JUL 26	67.25
NOV 15	65.34	JAN 26	64.35	MAR 27	64.79	MAY 30	66.35	JUL 13	67.12		

325450104251101. (formerly 325445104253501) Local number, 16S.26E.19.21113.
LOCATION.--Lat 32°54'50", long 104°25'11", Hydrologic Unit 13060007.
AQUIFER.--Valley fill.
WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 160 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 3,399 ft above National Geodetic Vertical Datum of 1929. Measuring point: $^{1}/_{2}$ in. by 3 in. vertical slot under pump base, at land-surface datum.
PERIOD OF RECORD.--Jan. 1969 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.60 ft below land-surface datum, Jan. 16, 1969; lowest measured, 140.89 ft below land-surface datum, Aug. 6, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL
FEB 28	107.37

324838104435301. (formerly 324831104435701) Local number, 17S.23E.30.12344
LOCATION.--Lat 32°48'38", long 104°43'53", Hydrologic Unit 13060007.
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, 508.63 ft below land-surface datum, Jan. 27, 1988; lowest measured, 553.18 ft below land-surface datum, Aug. 11, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	512.27	JUL 12	513.20

EDDY COUNTY--Continued
Roswell Basin

324620104255001. (formerly 324624104244501) Local number, 18S.26E.06.442221A.
LOCATION.--Lat 32°46'20", long 104°25'50", Hydrologic Unit 13060007.
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 measurement.
DATUM.--Elevation of land-surface datum is 3,402.1 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelf, 2.40 ft above land-surface datum.
REMARKS.--Records fair. Lost record due to recorder malfunction.
PERIOD OF RECORD.--June 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.57 ft below land-surface datum, Feb. 20, 1989; lowest measured, 209.15 ft below land-surface datum, July 31-Aug. 2, 1966.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	131.75	105.14	94.50	86.45	79.94	79.64	113.52	---	132.02	153.79	164.67	156.44
10	125.40	102.69	93.00	85.08	79.00	79.61	115.84	---	136.85	154.23	165.93	158.18
15	118.51	101.16	91.54	84.49	77.89	84.56	121.71	---	142.78	159.14	165.53	152.46
20	114.45	99.58	90.49	83.57	77.73	92.20	120.61	---	146.66	159.28	160.91	150.50
25	111.08	97.79	89.18	82.30	79.63	103.96	117.80	---	146.72	157.31	157.80	144.48
EOM	108.01	96.42	87.48	80.88	80.03	109.34	---	119.55	150.59	162.49	156.77	134.66

WTR YEAR 2001 HIGHEST 77.19 FEB 19 LOWEST 168.08 AUG 03

324620104255101. Local number, 18S.26E.06.442212B.
LOCATION.--Lat 32°46'20", long 104°25'51", Hydrologic Unit 13060007.
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 measurement.
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. Missing record due to recorder malfunction.
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, 143.60 ft below land-surface datum, Sept. 24, 2001.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	141.33	135.95	131.31	127.40	124.21	122.20	124.59	129.32	132.67	136.92	140.55	142.94
10	140.67	135.31	130.64	126.87	123.96	121.44	125.45	130.20	133.40	137.60	141.18	143.28
15	140.08	134.36	129.93	126.39	123.45	121.58	126.85	131.07	134.32	138.25	141.54	143.19
20	139.11	133.97	129.25	125.88	123.02	121.65	127.66	131.57	135.08	139.10	142.09	143.33
25	138.18	133.00	128.82	125.29	122.79	122.38	128.50	131.99	135.76	139.67	142.48	143.37
EOM	137.09	132.13	128.06	125.00	122.46	123.60	128.86	132.17	136.25	140.16	142.78	143.20

WTR YEAR 2001 HIGHEST 121.37 MAR 14 LOWEST 143.60 SEP 24

324325104233001. Local number, 18S.26E.28.122111.
LOCATION.--Lat 32°43'25", long 104°23'30", Hydrologic Unit 13060011.
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, 126.49 ft below land-surface datum, July 12, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	126.33	DEC 12	126.41	FEB 21	126.3	APR 25	126.41	JUN 27	126.41	JUL 26	126.27
NOV 15	126.09	JAN 29	126.30	MAR 27	126.32	MAY 30	126.38	JUL 12	126.49		

323705104225501. Local number, 19S.26E.33.41224.
LOCATION.--Lat 32°37'05", long 104°22'55", Hydrologic Unit 13060011
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, 34.96 ft below land-surface datum, Feb. 26, 2001; lowest measured, 124.00 ft below land-surface datum, Jan. 9, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	34.96	JUL 12	40.39

EDDY COUNTY--Continued
Roswell Basin

323542104242701. (formerly 323540104232001) Local number, 20S.26E.08.121111.
LOCATION.--Lat 32°35'42", long 104°24'27", Hydrologic Unit 13060011.
AQUIFER.--Valley fill
WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 13 in., depth 346 ft, casing information not available.
INSTRUMENTATION.--Periodic 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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	31.25	JUL 13	33.21

Carlsbad Area

322637104142301. (formerly 322652104141901) Local number, 21S.26E.36.22110.
LOCATION.--Lat 32°26'37", long 104°14'23", Hydrologic Unit 13060011.
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 measurement.
DATUM.--Elevation of land-surface datum is 3,122.10 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelf, 4.26 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.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.61	22.40	22.36	22.24	22.72	23.15	23.41	23.39	23.74	23.81	24.01	24.20
10	23.19	22.37	22.30	22.20	22.87	22.95	23.44	23.48	23.53	23.79	24.12	24.23
15	23.24	22.36	22.29	22.21	22.87	23.13	23.68	23.32	23.71	23.77	24.06	24.00
20	22.92	22.52	22.27	22.35	22.98	23.19	23.61	23.38	23.77	23.75	23.96	24.01
25	22.84	22.40	22.27	22.47	23.05	23.33	23.72	23.57	23.71	23.99	24.24	24.11
EOM	22.76	22.40	22.18	22.65	23.07	23.27	23.51	23.76	23.88	23.95	24.11	24.01

WTR YEAR 2001 HIGHEST 22.16 JAN 12 LOWEST 24.40 AUG 26

322712104074501. (formerly 322710104073901) Local number, 21S.28E.30.14123.
LOCATION.--Lat 32°27'12", long 104°07'45", Hydrologic Unit 13060011.
AQUIFER.--Capitan Limestone.
WELL CHARACTERISTICS.--Drilled exploration well, diameter 8 5/8 in.-5 $^{1}/_{2}$ in., reported depth 1,060 ft, plugged back, total depth 906 ft.
INSTRUMENTATION.--Digital recorder, 1-hour measurement.
DATUM.--Elevation of land-surface datum is 3,181.71 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing 2.27 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.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	94.37	93.34	93.11	92.86	93.22	93.54	93.81	94.27	94.28	94.42	94.62	94.61
10	94.16	93.12	92.99	92.83	93.26	93.55	94.03	94.25	94.30	94.34	94.67	94.67
15	93.94	93.08	92.97	92.81	93.33	93.56	94.20	94.19	94.18	94.35	94.61	94.59
20	93.77	93.11	92.95	92.90	93.46	93.68	94.37	94.09	94.30	94.36	94.52	94.45
25	93.59	93.09	92.89	93.02	93.45	93.77	94.43	94.12	94.30	94.39	94.59	94.57
EOM	93.48	93.09	92.80	93.05	93.51	93.76	94.43	94.18	94.33	94.62	94.64	94.51

WTR YEAR 2001 HIGHEST 92.79 JAN 1, 2 LOWEST 94.69 SEP 10-12

EDDY COUNTY--Continued
Carlsbad Area

322120104151501. Local number, 22S.26E.25.333333.(formerly 22S.26E.36.111A)
LOCATION.--Lat 32°21'20", long 104°15'15", Hydrologic Unit 13060011.
AQUIFER.--Alluvium.
WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 12 in., depth 260 ft, cased to 260 ft.
INSTRUMENTATION.--Digital recorder, 1-hour measurement.
DATUM.--Elevation of land-surface datum is 3,228.40 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.40 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--July 1942 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 131.50 ft below land-surface datum, Oct. 14, 1942; lowest measured, 214.82 ft below land-surface datum, Sept. 15, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	159.95	155.70	151.58	149.06	148.01	150.08	154.32	159.45	162.43	164.74	168.96	167.01
10	160.06	154.89	150.98	148.74	147.98	149.55	155.72	159.84	163.71	165.71	169.08	166.77
15	159.59	154.09	150.50	148.48	147.95	149.88	156.81	160.57	164.14	166.80	169.01	166.31
20	158.63	153.65	150.08	148.51	148.86	151.20	157.57	161.63	164.66	167.76	168.80	166.15
25	157.75	152.81	149.82	148.32	149.68	152.40	158.93	162.45	165.26	168.24	168.30	166.19
EOM	156.75	152.15	149.40	148.24	150.19	152.86	159.44	162.18	164.75	168.48	167.51	166.35

WTR YEAR 2001 HIGHEST 147.74 FEB 08 LOWEST 169.13 AUG 07

322238104101801. (formerly 322231104131001) Local number, 22S.27E.22.421333.
LOCATION.--Lat 32°22'38", long 104°10'18", Hydrologic Unit 13060011.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 22	33.15	JUL 12	34.74

321939104113301. (formerly 321930104113301) Local number, 23S.27E.09.211124.
LOCATION.--Lat 32°19'39", long 104°11'33", Hydrologic Unit 13060011.
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, Sept. 15, 1950; lowest measured, 64.90 ft below land-surface datum, Feb. 22, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 22	64.90	JUL 12	60.19

320604104284101. (formerly 320602104285201) Local number, 25S.24E.27.421121.
LOCATION.--Lat 32°06'04", long 104°28'41", Hydrologic Unit 13060011.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 22	58.21	JUL 12	60.25

EDDY COUNTY--Continued
Carlsbad Area

320316104294301. (formerly 320257104295201) Local number, 26S.24E.09.443111.
LOCATION.--Lat 32°03'16", long 104°29'43", Hydrologic Unit 13060011.
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, Sept. 8, 1965.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 22	OBSTRUCTION	JUL 12	48.08

GRANT COUNTY
Mimbres Basin

324245108175603. Local number, 18S.14W.28.143B.
LOCATION.--Lat 32°42'45", long 108°17'56", Hydrologic Unit 13030202.
AQUIFER.--Alluvium.
WELL CHARACTERISTICS.--Drilled water-table unused irrigation well, diameter 6 in., depth unknown.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 5,800 ft above National Geodetic Vertical Datum of 1929. Measuring point: 3/4 in. hole in cover plate, at land-surface datum.
REMARKS.--"S" indicates nearby well pumping.
PERIOD OF RECORD.--Mar. 1984 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 268.84 ft below land-surface datum, Jan. 14, 1986; lowest measured, 404.60S ft below land-surface datum, Jan. 6, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 18	364.47	JUL 07	363.62

Silver City Area

324600108222501. Local number, 18S.15W.11.323.
LOCATION.--Lat 32°46'00", long 108°22'25", Hydrologic Unit 15040002.
AQUIFER.--Gila Conglomerate.
WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 12 in., depth 580 ft.
INSTRUMENTATION.--Digital recorder, 1-hour measurement.
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, 300.51 ft below land-surface datum, Sept. 24, 2001.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	299.21	299.22	299.56	299.68	299.77	300.03	299.95	299.91	299.97	300.02	300.19	300.21
10	299.21	299.41	299.48	299.54	299.77	299.66	299.74	299.94	300.04	300.04	300.18	300.38
15	299.28	299.40	299.63	299.55	299.74	299.92	300.08	299.96	300.13	300.03	300.14	300.23
20	299.28	299.77	299.43	299.85	299.91	300.06	299.82	299.84	300.12	300.13	300.15	300.32
25	299.35	299.50	299.37	299.73	299.86	299.91	300.07	299.98	300.03	300.10	300.16	300.32
EOM	299.31	299.58	299.61	299.81	299.79	299.96	299.99	299.98	300.05	300.14	300.22	300.36

WTR YEAR 2001 HIGHEST 299.05 OCT 12 LOWEST 300.51 SEP 24

GUADALUPE COUNTY
Santa Rosa Area

350414104485101. Local number, 10N.20E.28.2241.
LOCATION.--Lat 35°04'14", long 104°48'51", Hydrologic Unit 13060001.
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 measurement.
DATUM.--Elevation of land-surface datum is 5,162.7 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing 1.10 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--May 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 343.67 ft below land-surface datum, July 27, 1992: lowest measured, 362.36 ft below land-surface datum, Apr. 12, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	353.43	353.36	353.27	353.71	354.19	353.73	352.86	350.80	349.93	349.99	351.30	351.40
10	353.50	353.32	353.12	353.78	354.18	353.43	351.99	350.68	349.71	350.14	351.12	351.58
15	353.70	353.23	353.12	353.86	354.00	353.33	351.99	350.85	349.51	350.55	351.29	351.63
20	353.85	353.37	353.26	353.94	353.98	353.18	351.60	350.46	349.92	350.49	351.23	351.59
25	353.68	353.29	353.43	354.04	353.88	352.95	351.90	349.86	350.04	350.72	351.30	351.95
EOM	353.48	353.28	353.78	354.21	353.78	352.66	351.14	349.67	349.90	351.28	351.31	351.97

WTR YEAR 2001 HIGHEST 349.32 JUN 13 LOWEST 354.94 FEB 04

HARDING COUNTY
Roy Area

355352104054201. Local number, 19N.27E.05.334.
LOCATION.--Lat 35°53'52", long 104°05'42", Hydrologic Unit 11080007.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 16	49.75	JUL 05	50.01

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.
AQUIFER.--Valley fill.
WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 20 in., depth 72 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 3,750 ft above National Geodetic Vertical Datum of 1929. Measuring point: Hole inside pump shell, 0.90 ft above land-surface datum.
PERIOD OF RECORD.--Jan. 1959 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.50 ft below land-surface datum, Jan. 11, 1993; lowest measured, 15.79 ft below land-surface datum, Aug. 4, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 05	11.19	JUL 07	13.34

Lordsburg Area

321849108392001. (formerly 321848108391401) Local number, 23S.18W.12.333.
LOCATION.--Lat 32°18'49", long 108°39'20", Hydrologic Unit 15040003.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 26	173.08	JUL 17	168.19

321248108331401. (formerly 321257108331201) Local number, 24S.17W.14.442.
LOCATION.--Lat 32°12'48", long 108°33'14", Hydrologic Unit 15040003.
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, 227.25 ft below land-surface datum, July 17, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 26	96.20	JUL 17	227.25

Animas Valley

321624108504001. (formerly 321540108514101) Local number, 23S.20W.25.422.
LOCATION.--Lat 32°16'24", long 108°50'40", Hydrologic Unit 15040003.
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, 55.50 ft below land-surface datum, July 8, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 18	54.67	JUL 13	54.49

HIDALGO COUNTY--Continued
Animas Valley

315610108483901. (formerly 315645108493501) Local number, 27S.19W.20.343.
LOCATION.--Lat 31°56'10", long 108°48'39", Hydrologic Unit 15040003.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 24	187.50	JUL 13	187.29

San Simon Valley

315738109004001. Local number, 27S.21W.17.124.
LOCATION.--Lat 31°57'38", long 109°00'40", Hydrologic Unit 15040006.
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, 132.76 ft below land-surface datum, Jan. 5, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 05	132.76	JUL 05	132.76

315048109010201. (formerly 315010108570001) Local number, 28S.21W.30.222.
LOCATION.--Lat 31°50'48", long 109°01'02", Hydrologic Unit 15040006.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 05	124.10	JUL 05	124.10

Playas Valley

313502108275001. Local number, 31S.16W.33.233.
LOCATION.--Lat 31°35'02", long 108°27'50", Hydrologic Unit 13030201.
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, Sept. 4, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 24	47.23	JUL 16	47.32

LEA COUNTY
Tatum-Lovington-Hobbs Area

332115103403301. Local number, 11S.32E.24.113222.
LOCATION.--Lat 33°21'15", long 103°40'33", Hydrologic Unit 12080001.
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 shelter door, 3.43 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--Oct. 1977 to Nov. 1998, July 1999 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 59.74 ft above land-surface datum, Oct. 3, 1993; lowest measured, 62.67 ft below land-surface datum, Apr. 19, 1993.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	60.10	60.07	60.08	60.07	60.05	60.03	59.99	59.97	59.98	59.97	59.98	59.98
10	60.08	60.10	60.08	60.07	60.04	60.00	59.97	59.98	59.97	59.97	59.97	59.98
15	60.09	60.08	60.07	60.06	60.05	60.04	60.00	59.97	59.97	59.98	59.97	59.98
20	60.10	60.11	60.07	60.05	60.06	60.03	59.96	59.97	59.97	59.98	59.98	59.98
25	60.12	60.09	60.07	60.04	60.07	59.99	59.98	59.97	59.96	59.98	59.98	59.98
EOM	60.10	60.09	60.07	60.06	60.03	60.00	59.97	59.98	59.97	59.98	59.98	59.98

WTR YEAR 2001 HIGHEST 59.95 MAY 29, JUN 23, SEP 23 LOWEST 60.15 OCT 17, DEC 18

331713103283301. (formerly 331740103285001) Local number, 12S.34E.11.42134.
LOCATION.--Lat 33°17'31", long 103°28'33", Hydrologic Unit 12080006.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 04	32.62	JUL 10	32.69

330458103251001. (formerly 330455103251301) Local number, 14S.35E.28.111133.
LOCATION.--Lat 33°04'58", long 103°25'10", Hydrologic Unit 12080003.
AQUIFER.--Ogallala Formation.
WELL CHARACTERISTICS.--Drilled water-table well, diameter 5 in., depth 137 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 4,031 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.00 ft above land-surface datum.
PERIOD OF RECORD.--Jan. 1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.05 ft below land-surface datum, Jan. 5, 1994; lowest measured, 44.73 ft below land-surface datum, Aug. 7, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 04	44.09	JUL 10	44.16

330405103194501. (formerly 330400103193401) Local number, 14S.36E.32.12121.
LOCATION.--Lat 33°04'05", long 103°19'45", Hydrologic Unit 12080003.
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, 76.14 ft below land-surface datum, Aug. 19, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 04	71.42	JUL 10	71.44

LEA COUNTY--Continued
Tatum-Lovington-Hobbs Area

325730103213901. (formerly 325703103213201) Local number, 16S.36E.04.32232.
LOCATION.--Lat 32°57'30", long 103°21'39", Hydrologic Unit 12080003.
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 measurement.
DATUM.--Elevation of land-surface datum is 3,926 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelf, 4.25 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--Aug. 1971 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.69 ft below land-surface datum, Mar. 26, 1998; lowest measured, 67.11 ft below land-surface datum, Aug. 24, 1971.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	57.57	57.54	57.53	57.45	57.34	57.31	57.27	57.24	57.33	57.65	57.81	57.81
10	57.56	57.58	57.51	57.43	57.34	57.27	57.25	57.24	57.39	57.67	57.82	57.81
15	57.55	57.56	57.47	57.42	57.32	57.30	57.28	57.25	57.42	57.72	57.86	57.79
20	57.57	57.61	57.46	57.41	57.32	57.29	57.27	57.25	57.50	57.79	57.83	57.72
25	57.59	57.56	57.46	57.39	57.32	57.28	57.28	57.26	57.54	57.80	57.82	57.68
EOM	57.58	57.55	57.46	57.36	57.32	57.27	57.27	57.30	57.62	57.81	57.82	57.66

WTR YEAR 2001 HIGHEST 57.24 MAY 5, 10, 16 LOWEST 57.90 AUG 11-19

325658103200001. Local number, 16S.37E.11.11111.
LOCATION.--Lat 32°56'58", long 103°20'00", Hydrologic Unit 12080003.
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.
REMARKS.--"S" indicates nearby well pumping.
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, 80.22S ft below land-surface datum, Jan. 3, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 03	80.22 S	JUL 10	78.16

325132103112501. Local number, 17S.38E.07.111311.
LOCATION.--Lat 32°51'32", long 103°11'25", Hydrologic Unit 12080003.
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.
REMARKS.--"P" indicates well pumping.
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, 82.44P ft below land-surface datum, Aug. 26, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 02	70.73	JUL 10	71.14

324745103082001. Local number, 17S.38E.34.113143.
LOCATION.--Lat 32°47'45", long 103°08'20", Hydrologic Unit 12080003.
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, 78.84 ft below land-surface datum, July 10, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 02	73.22	JUL 10	78.84

LINCOLN COUNTY
Hondo Valley

333241105341101. (formerly 333242105340701) Local number, 09S.14E.10.13221.
LOCATION.--Lat 33°32'41", long 105°34'11", Hydrologic Unit 13060008.
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, 35.02 ft below land-surface datum, Feb. 26, 2001; lowest measured, 69.77 ft below land-surface datum, Nov. 28, 1956.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	35.02	JUL 13	35.59

332110105092501. (formerly 332157105094101) Local number, 11S.18E.15.33313.
LOCATION.--Lat 33°21'10", long 105°09'25", Hydrologic Unit 13060008.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	PUMPING	JUL 13	48.50

LUNA COUNTY
Nutt-Hockett

322927107220101. (formerly 322930107221001) Local number, 21S.05W.08.444.
LOCATION.--Lat 32°29'27", long 107°22'01", Hydrologic Unit 13030202.
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, 228.70 ft below land-surface datum, Jan. 11, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 29	207.50	AUG 31	PUMPING

Mimbres Valley

321352107493901. Local number, 24S.10W.12.431.
LOCATION.--Lat 32°13'52", long 107°49'39", Hydrologic Unit 13030202.
AQUIFER.--Bolson deposits.
WELL CHARACTERISTICS.--Dug and drilled water-table unused well, diameter 36 in., reported depth 132 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 4,363 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter shelf, 3.20 ft above land-surface datum.
REMARKS.--Recorder removed.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06	107.49	DEC 05	106.83	JAN 08	107.27	MAR 05	106.87	JUN 05	109.86		
NOV 06	107.42	15	107.28	FEB 06	106.87	MAY 08	108.84	JUL 05	109.87		

321328107565301. (formerly 321415107565501) Local number, 24S.11W.14.122.
LOCATION.--Lat 32°13'28", long 107°56'55", Hydrologic Unit 13030202.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 24	173.56	JUL 11	174.89

LUNA COUNTY--Continued
Mimbres Valley

321010107260201. (formerly 321015107260501) Local number, 25S.06W.02.111.
LOCATION.--Lat 32°10'10", long 107°26'02", Hydrologic Unit 13030202.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 18	23.20	JUL 11	16.30

320918107293301. (formerly 320915104294501) Local number, 25S.06W.07.211.
LOCATION.--Lat 32°09'18", long 107°29'33", Hydrologic Unit 13030202.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 24	81.29	JUL 11	80.19

320647107490701. Local number, 25S.09W.19.31331.
LOCATION.--Lat 32°26'47", long 107°49'07", Hydrologic Unit 13030202.
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 steel-tape measurements.
DATUM.--Elevation of land-surface datum is 4,248 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, 150.70 ft below land-surface datum, Jul. 18, 1957; lowest measured, 229.90 ft below land-surface datum, July 5, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	202.55	JUL 05	229.90

315517107375001. (formerly 315525107374501) Local number, 27S.08W.35.122.
LOCATION.--Lat 31°55'17", long 107°37'50", Hydrologic Unit 13030202.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 24	88.87	JUL 11	87.24

315903107424501. (formerly 315905107425001) Local number, 27S.09W.01.431.
LOCATION.--Lat 31°59'03", long 107°42'45", Hydrologic Unit 13030202.
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, 48.07 ft below land-surface datum, July 11, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 24	39.96	JUL 11	48.07

LUNA COUNTY--Continued
Mimbres Valley

314942107361001. (formerly 314938107371401) Local number, 28S.08W.36.411.
LOCATION.--Lat 31°49'42", long 107°36'10", Hydrologic Unit 13030202.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL

WELL DRY

McKINLEY COUNTY
San Juan Basin

352023107473201. Local number, 13N.09W.21.4123.
LOCATION.--Lat 35°20'23", long 107°47'32", Hydrologic Unit 13020207.
AQUIFER.--Morrison Formation.
WELL CHARACTERISTICS.--Drilled water-table unused stock well, diameter 6 in., depth 155 ft, cased to 155 ft.
INSTRUMENTATION.--Periodic 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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 22	103.35	JUL 02	105.37

353645108011501. Local number, 16N.11W.17.4322.
LOCATION.--Lat 35°36'45", long 108°01'15", Hydrologic Unit 14080106.
AQUIFER.--Gallup Sandstone.
WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 5/8 in., depth 570 ft, cased to 570 ft, perforated 470-570 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 7,070 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.53 ft above land-surface datum.
PERIOD OF RECORD.--July 1959 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 246.27 ft below land-surface datum, Feb. 29, 2000; lowest measured, 318.28 ft below land-surface datum, July 21, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 07	291.52	JUL 03	271.15

353521108284901. Local number, 16N.16W.25.142.
LOCATION.--Lat 35°35'21", long 108°28'49", Hydrologic Unit 15020006.
AQUIFER.--Entrada Sandstone.
WELL CHARACTERISTICS.--Drilled water-table well, diameter 8 3/4 in., depth 1,052 ft, cased to 1,052 ft, perforated 628-896, 974-1033 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 7,115 ft above National Geodetic Vertical Datum of 1929. Measuring point: Hole in cover plate, 0.80 ft above land-surface datum.
REMARKS.--"P" indicates well pumping.
PERIOD OF RECORD.--Oct. 1965 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 125.55 ft below land-surface datum, Feb. 2, 1995; lowest measured, 183.05P ft below land-surface datum, Feb. 25, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 07	125.77	JUL 02	127.23

354235108170702. Local number, 17N.14W.13.1144B.
LOCATION.--Lat 35°42'35", long 108°17'07", Hydrologic Unit 14080106.
AQUIFER.--Morrison Sandstone.
WELL CHARACTERISTICS.--Drilled water-table well, diameter 8 5/8 in. 0-2,225 ft, total depth 2,225 ft. Perforated 1,820-2,225 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 6,757.70 ft above National Geodetic Vertical Datum of 1929. Measuring point: 3/8 in. plug, 1.70 ft above land-surface datum.
PERIOD OF RECORD.--Aug. 1982 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 240.05 ft below land-surface datum, Feb. 29, 2000; lowest measured, 350.38 ft below land-surface datum, Oct. 8, 1986.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 07	240.60	JUL 03	240.39

McKINLEY COUNTY--Continued
San Juan Basin

354235108170703. Local number, 17N.14W.13.1144C.
LOCATION.--Lat 35°42'35", long 108°17'07", Hydrologic Unit 14080106.
AQUIFER.--Dakota Sandstone.
WELL CHARACTERISTICS.--Drilled water-table well, diameter 8 5/8 in. 0-54 ft, 6 5/8 in. 54- 1,728 ft. Perforated 1,587-1,728 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 6,757.70 ft above National Geodetic Vertical Datum of 1929. Measuring point: 3/8 in. plug, 0.80 ft above land-surface datum.
PERIOD OF RECORD.--Aug. 1982 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 76.21 ft below land-surface datum, Aug. 4, 1982; lowest measured, 126.35 ft below land-surface datum, July 11, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 07	123.61	JUL 03	124.03

OTERO COUNTY
Tularosa-Alamogordo Area

330321106011101. (formerly 330324106011201) Local number, 14S.10E.31.144.
LOCATION.--Lat 33°03'18", long 106°01'08", Hydrologic Unit 13050003.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 14	94.86	JUL 25	102.59

Crow Flats Basin
(Salt Basin)

320657105061501. Local number, 25S.18E.21.233.
LOCATION.--Lat 32°06'57", long 105°06'15", Hydrologic Unit 13050004.
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, Sept. 15, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 22	96.03	JUL 12	96.04

320138105063101. (formerly 320650105034801) Local number, 26S.18E.21.331.
LOCATION.--Lat 32°01'38", long 105°06'31", Hydrologic Unit 13050004.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 22	61.20	JUL 12	68.20

320008105064501. Local number, 26S.18E.33.133.
LOCATION.--Lat 32°00'08", long 105°06'45", Hydrologic Unit 13050004.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 22	OBSTRUCTION	JUL 12	OBSTRUCTION

QUAY COUNTY
House Area

343848103555801. Local number, 05N.28E.23.222232.
LOCATION.--Lat 34°38'48", long 103°55'58", Hydrologic Unit 13060004.
AQUIFER.--Ogallala Formation.
WELL CHARACTERISTICS.--Drilled water-table stock well, diameter 6 in., depth 93.5 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 4,788 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, west side, 2.00 ft above land-surface datum.
REMARKS.--"R" indicates well pumped recently.
PERIOD OF RECORD.--Jan. 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.50 ft below land-surface datum, Sept. 15, 1994; lowest measured, 84.22R ft below land-surface datum, Feb. 18, 1972.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 09	74.77	JUL 09	74.98

343855103482901. (formerly 343810103463001) Local number, 05N.30E.18.331311.
LOCATION.--Lat 34°38'55", long 103°48'29", Hydrologic Unit 13060004.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 09	46.03	JUL 09	45.74

344406103555501. Local number, 06N.28E.13.33333.
LOCATION.--Lat 34°44'06", long 103°55'55", Hydrologic Unit 13060004.
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, 120.20 ft below land-surface datum, Sept. 24, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 09	OBSTRUCTION	JUL 09	119.51

Lower Canadian

351040103433602. Local number, 11N.30E.14.144D.
LOCATION.--Lat 35°10'40", long 104°43'36", Hydrologic Unit 11080006.
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, Sept. 9, 1963; lowest measured, 137.66 ft below land-surface datum, Dec. 16, 1952.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 12	45.05	JUL 05	54.04

QUAY COUNTY--Continued
Northern High Plains

353239103111301. Local number, 15N.35E.11.21222.
LOCATION.--Lat 35°32'39", long 103°11'13", Hydrologic Unit 11080006.
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, 88.83 ft below land-surface datum, July 26, 1995; lowest measured, 114.67 ft below land-surface datum, Feb. 5, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 12	91.10	JUL 05	91.18

354238103132301. Local number, 17N.35E.16.221.
LOCATION.--Lat 35°42'38", long 103°13'23", Hydrologic Unit 11090101.
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, Sept. 19, 1988.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL
FEB 12	160.15

ROOSEVELT COUNTY
Portales Valley

341014103264401. Local number, 01S.33E.35.434344.
LOCATION.--Lat 34°10'14", long 103°26'44", Hydrologic Unit 12050002.
AQUIFER.--Alluvium.
WELL CHARACTERISTICS.--Drilled water-table unused irrigation well, diameter 16 in., depth 84 ft.
INSTRUMENTATION.--Digital recorder, 1-hour punch.
DATUM.--Elevation of land-surface datum is 4,066 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter apron, 3.24 ft above land-surface datum.
REMARKS.--Recorder installed Apr. 25, 1996. Lost record due to recorder malfunction.
PERIOD OF RECORD.--Apr. 1996 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 66.37 ft below land-surface datum, Apr. 25, 1996; lowest measured, 68.72 ft below land-surface datum, Sept. 6 and 28, 2001.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	68.52	68.57	68.57	68.58	---	---	68.61	68.61	68.62	68.67	68.66	68.68
10	68.50	68.56	68.58	---	---	---	68.61	68.61	68.64	68.67	68.66	68.67
15	68.56	68.57	68.59	---	---	---	68.62	68.62	68.63	68.66	68.65	68.68
20	68.59	68.56	68.57	---	---	---	68.62	68.60	68.64	68.65	68.67	68.68
25	68.57	68.58	68.58	---	---	---	68.62	68.62	68.65	68.67	68.66	68.68
EOM	68.57	68.58	68.57	---	---	68.60	68.61	68.61	68.65	68.64	68.66	68.69

WTR YEAR 2001 HIGHEST 68.50 OCT 10 LOWEST 68.72 SEP 06, 28

341037103254501. Local number, 01S.33E.36.23111.
LOCATION.--Lat 34°10'37", long 103°25'45", Hydrologic Unit 12050002.
AQUIFER.--Alluvium.
WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 18 in., depth 105 ft.
INSTRUMENTATION.--Periodic steel tape measurements.
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.--Recorder removed Apr. 25, 1996.
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, 93.63 ft below land-surface datum, July 10, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 10	93.26	JUL 10	93.63

ROOSEVELT COUNTY--Continued
Portales Valley

340732103145001. Local number, 02S.35E.23.11113.
LOCATION.--Lat 34°07'32", long 103°14'50", Hydrologic Unit 12050001.
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, Aug. 8, 1996.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL
WELL DRY	

340753103083101. Local number, 02S.36E.14.311111.
LOCATION.--Lat 34°07'53", long 103°08'31", Hydrologic Unit 12050001.
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.
REMARKS.--"P" indicates well pumping.
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, 122.20P ft below land-surface datum, July 10, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 10	87.43	JUL 10	122.20 P

340844103055001. Local number, 02S.37E.07.432222.
LOCATION.--Lat 34°08'44", long 103°05'50", Hydrologic Unit 12050001.
AQUIFER.--Ogallala Formation.
WELL CHARACTERISTICS.--Drilled water-table unused irrigation well, diameter 13.5 in., depth 204 ft, cased to 204 ft, perforated 151-204 ft.
INSTRUMENTATION.--Digital recorder, 1-hour measurement.
DATUM.--Elevation of land-surface datum is 3,982 ft above National Geodetic Vertical Datum of 1929. Measuring point: Edge of recorder shelter, 3.00 ft above land-surface datum.
REMARKS.--Records good.
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, 144.27 ft below land-surface datum, June 19, 2001.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	132.85	132.56	131.94	131.34	130.82	130.22	129.00	132.47	130.53	136.89	136.90	137.17
10	132.10	132.46	131.92	131.26	130.71	130.14	128.59	131.28	134.07	137.07	137.15	136.85
15	135.45	132.37	131.81	131.13	130.60	129.73	128.70	133.68	135.47	137.35	137.37	137.45
20	132.80	132.21	131.55	130.99	130.45	129.97	131.14	131.81	135.87	137.28	137.04	140.56
25	132.48	132.17	131.55	131.00	130.31	129.85	129.49	132.39	136.46	137.49	136.82	137.70
EOM	132.61	132.05	131.39	130.84	130.34	130.06	129.81	133.14	137.43	137.38	137.24	137.60

WTR YEAR 2001 HIGHEST 128.59 APR 10 LOWEST 144.27 JUN 19

Causey-Lingo Area

334700103030601. (formerly 335655103032001) Local number, 06S.38E.21.233131.
LOCATION.--Lat 33°47'00", long 103°03'11", Hydrologic Unit 12050001.
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" indicated well pumping.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 10		MAR 28	93.40	JUL 10	93.67

SANDOVAL COUNTY
Bernalillo Area

352121106285501. (formerly 352235106282401) Local number, 13N.04E.12.112.
LOCATION.--Lat 35°21'21", long 106°28'55", Hydrologic Unit 13020201.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 23	24.81	AUG 29	23.48

Corrales Area

351319106373501. Local number, 12N.03E.33.414A.
LOCATION.--Lat 35°13'19", long 106°37'35", Hydrologic Unit 13020204.
AQUIFER.--Santa Fe Group.
WELL CHARACTERISTICS.--Drilled monitoring well, diameter 2 in., depth 60 ft, screened interval 30-50 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 5,003 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 in. casing, 0.56 ft below land-surface datum.
PERIOD OF RECORD.--Mar. 1995 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.72 ft below land-surface datum, Nov. 1, 1995; lowest measured, 11.10 ft below land-surface datum, July 18, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 23	10.22	AUG 29	11.08

351319106373502. Local number, 12N.03E.33.414B.
LOCATION.--Lat 35°13'19", long 106°37'35", Hydrologic Unit 13020204.
AQUIFER.--Santa Fe Group.
WELL CHARACTERISTICS.--Drilled monitoring well, diameter 2 in., depth 270 ft, screened interval 220-260 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 5,003 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 in. casing, 0.65 ft below land-surface datum.
PERIOD OF RECORD.--Mar. 1995 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.31 ft below land-surface datum, May 5, 1995; lowest measured, 29.66 ft below land-surface datum, July 18, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 23	26.87	AUG 29	29.19

351319106373503. Local number, 12N.03E.33.414C.
LOCATION.--Lat 35°13'19", long 106°37'35", Hydrologic Unit 13020204.
AQUIFER.--Santa Fe Group.
WELL CHARACTERISTICS.--Drilled monitoring well, diameter 2 in., depth 120 ft, screened interval 90-110 ft.
INSTRUMENTATION.--Periodic steel-tape measurement.
DATUM.--Elevation of land-surface datum is 5,003 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 in. casing, 0.47 ft below land-surface datum.
PERIOD OF RECORD.--Mar. 1995 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.10 ft below land-surface datum, Nov. 1, 1995; lowest measured, 14.72 ft below land-surface datum, Aug. 29, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 23	13.67	AUG 29	14.72

351319106373504. Local number, 12N.03E.33.414D.
LOCATION.--Lat 35°13'19", long 106°37'35", Hydrologic Unit 13020204.
AQUIFER.--Santa Fe Group.
WELL CHARACTERISTICS.--Drilled monitoring well, diameter 2 in., depth 400 ft, screened interval 350-390 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 5,003 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 in. casing, 0.52 ft below land-surface datum.
PERIOD OF RECORD.--Mar. 1995 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.29 ft below land-surface datum, Mar. 31, 1995; lowest measured, 38.99 ft below land-surface datum, Aug. 29, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 23	36.20	AUG 29	38.99

SANDOVAL COUNTY--Continued
Corrales Area

351319106373505. Local number, 12N.03E.33.414E.
LOCATION.--Lat 35°13'19", long 106°37'35", Hydrologic Unit 13020204.
AQUIFER.--Santa Fe Group.
WELL CHARACTERISTICS.--Drilled monitoring well, diameter 2 in., depth 800 ft, screened interval 710-790 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 5,003 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 in. casing, 0.65 ft below land-surface datum.
PERIOD OF RECORD.--Mar. 1995 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 48.00 ft below land-surface datum, May 5, 1995; lowest measured, 58.72 ft below land-surface datum, Aug. 29, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 23	54.68	AUG 29	58.72

351319106373506. Local number, 12N.03E.33.414F.
LOCATION.--Lat 35°13'19", long 106°37'35", Hydrologic Unit 13020204.
AQUIFER.--Santa Fe Group.
WELL CHARACTERISTICS.--Drilled monitoring well, diameter 2 in., depth 1,470 ft, screened interval 1,360-1,460 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 5,003 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 in. casing, 0.61 ft below land-surface datum.
PERIOD OF RECORD.--Mar. 1995 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 50.27 ft below land-surface datum, Mar. 31, 1995; lowest measured, 62.11 ft below land-surface datum, Aug. 29, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 23	57.95	AUG 29	62.11

SAN JUAN COUNTY
San Juan Basin

364534108292701. Local number, 29N.15W.02.232.
LOCATION.--Lat 36°45'34", long 108°29'27", Hydrologic Unit 14080105.
AQUIFER.--Alluvium.
WELL CHARACTERISTICS.--Drilled water-table well, diameter 10 in., depth 37 ft, cased to 37 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 5,045 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.05 ft above land-surface datum.
PERIOD OF RECORD.--Apr. 1992 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.53 ft below land-surface datum, July 30, 1996; lowest measured, 10.15 ft below land-surface datum, Feb. 17, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 07	10.08	JUL 03	WELL DESTROYED

364744108225001. Local number, 30N.15W.23.4411.
LOCATION.--Lat 36°47'44", long 108°22'50", Hydrologic Unit 14080105.
AQUIFER.--Pictured Cliffs Sandstone.
WELL CHARACTERISTICS.--Drilled water-table well, diameter 5 in., depth 729.5 ft, cased to 729.5 ft, perforated 613-729.5 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 5,290 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.00 ft above land-surface datum.
PERIOD OF RECORD.--Feb. 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 123.75 ft below land-surface datum, Feb. 21, 1978; lowest measured, 175.61 ft below land-surface datum, July 3, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 07	174.25	JUL 03	175.61

SAN MIGUEL COUNTY
Las Vegas Area

353346105145201. Local number, 15N.16E.04.242.
LOCATION.--Lat 35°33'46", long 105°14'52", Hydrologic Unit 13060001.
AQUIFER.--Santa Rosa Sandstone.
WELL CHARACTERISTICS.--Drilled water-table municipal well, diameter 10 in. 0-612 ft, 7 in. 612-772 ft, depth 815 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 6,462 ft above National Geodetic Vertical Datum of 1929. Measuring point: Entry port west side of pump base 1.95 ft above land-surface datum.
PERIOD OF RECORD.--Dec. 1999 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.82 ft below land-surface datum, Dec. 15, 1999; lowest measured, 30.98 ft below land-surface datum, Aug. 30, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 09	20.17	JUL 27	17.77

353418105145601. Local number, 16N.16E.33.143.
LOCATION.--Lat 35°34'18", long 105°14'56", Hydrologic Unit 13060001.
AQUIFER.--Santa Rosa Sandstone.
WELL CHARACTERISTICS.--Drilled water-table municipal well, diameter 10 in. 0-596 ft, 8 in. 596-824 ft, depth 829 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 6,477 ft above National Geodetic Vertical Datum of 1929. Measuring point: Entry port west side of pump base 1.95 ft above land-surface datum.
PERIOD OF RECORD.--Dec. 1999 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 79.81 ft below land-surface datum, July 27, 2001; lowest measured, 97.37 ft below land-surface datum, Dec. 15, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 09	86.01	JUL 27	79.81

SANTA FE COUNTY
Estancia Valley

350534106024801. (formerly 350525106025001) Local number, 10N.08E.13.1332.
LOCATION.--Lat 35°05'34", long 106°02'53", Hydrologic Unit 13050001.
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 well pumping.
PERIOD OF RECORD.--Feb. 1950 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 86.75 ft below land-surface datum, Feb. 22, 1950; lowest measured, 181.55P ft below land-surface datum, Aug. 4, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL
MAR 03	WELL PLUGGED

350344106004601. (formerly 350340106005001) Local number, 10N.09E.29.1334.
LOCATION.--Lat 35°03'45", long 106°00'46", Hydrologic Unit 13050001.
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, 134.90 ft below land-surface datum, Sept. 7, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL
MAR 07	123.65

350859106002901. Local number, 11N.09E.29.143.
LOCATION.--Lat 35°08'59", long 106°00'29", Hydrologic Unit 13050001.
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, 146.15 ft below land-surface datum, Aug. 30, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 07	145.00	AUG 30	146.15

SANTA FE COUNTY--Continued
Santa Fe Area

353636106021001. Local number, 16N.08E.13.444.
LOCATION.--Lat 35°36'36", long 106°02'10", Hydrologic Unit 13020201.
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, 264.79 ft below land-surface datum, Aug. 15, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 23	261.09	JUL 26	264.14

353516106035801. Local number, 16N.08E.26.32112.
LOCATION.--Lat 35°35'16", long 106°03'58", Hydrologic Unit 13020201.
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.--Digital recorder, 1-hour measurement.
DATUM.--Elevation of land-surface datum is 6,285 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.25 ft above land-surface datum.
REMARKS.--Lost records due to recorder malfunction.
PERIOD OF RECORD.--July 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 125.62 ft below land-surface datum, June 11, 1973; lowest measured, 131.37 ft below land-surface datum, Dec. 16, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	131.16	131.12	131.14	131.12	131.11	131.10	---	131.05	131.20	131.14	131.20	131.09
10	131.15	131.19	131.18	131.14	131.11	131.05	---	131.12	131.16	131.17	131.19	131.13
15	131.16	131.16	131.09	131.12	131.15	---	131.07	131.12	131.20	131.16	131.23	131.10
20	131.16	131.23	131.15	131.19	131.15	---	130.98	131.11	131.14	131.16	131.19	131.10
25	131.17	131.22	131.18	131.13	131.16	---	131.04	131.12	131.17	131.16	131.20	131.05
EOM	131.16	131.19	131.18	131.18	131.11	---	131.04	131.11	131.20	131.19	131.19	131.06

WTR YEAR 2001 HIGHEST 130.98 APR 20, 21 LOWEST 131.67 DEC 16

353735105581201. (formerly 353753105580501) Local number, 16N.09E.10.42114.
LOCATION.--Lat 35°37'53", long 105°58'05", Hydrologic Unit 13020201.
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, 233.10 ft below land-surface datum, July 26, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 23	232.39	JUL 26	233.10

354013105580601. (formerly 354005105574501) Local number, 17N.09E.27.441.
LOCATION.--Lat 35°40'13", long 105°58'06", Hydrologic Unit 13020201.
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 6,845 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing 2.70 ft below 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, 243.50 ft below land-surface datum, July 26, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 23	240.56	JUL 26	243.50

SANTA FE COUNTY--Continued
Santa Fe Area

353945105574501. Local number, 17N.09E.35.1314A.
LOCATION.--Lat 35°39'45", long 105°57'45", Hydrologic Unit 13020201.
AQUIFER.--Tesuque Formation of Santa Fe Group.
WELL CHARACTERISTICS.--Drilled monitoring well, diameter 2 in., depth 1,952 ft, screened interval 1,917-1,922 ft.
INSTRUMENTATION.--Pressure transducer, 1-hour measurement.
DATUM.--Elevation of land-surface datum is 6,880 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of steel casing, 2.60 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--Oct. 1998 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 86.73 ft below land-surface datum, Nov. 9,1998; lowest measured, 91.94 ft below land-surface datum, Sept. 30, 2001.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	88.89	88.62	90.09	89.38	90.31	90.68	90.59	90.48	90.48	90.27	91.19	91.53
10	88.87	88.82	89.09	89.23	90.34	90.38	90.37	90.68	90.10	90.38	91.48	91.69
15	88.86	89.49	89.14	89.25	90.41	90.59	90.63	90.73	90.16	90.38	91.47	91.62
20	88.89	90.02	89.01	89.36	90.59	90.69	90.48	90.62	90.17	90.46	91.51	91.72
25	88.86	89.96	89.02	89.43	90.55	90.63	90.63	90.82	90.26	90.52	91.57	91.75
EOM	88.76	90.03	89.11	90.14	90.54	90.65	90.64	90.88	90.29	90.54	91.57	91.82

WTR YEAR 2001 HIGHEST 88.62 NOV 05 LOWEST 91.94 SEP 30

353945105574502. Local number, 17N.09E.35.1314B.
LOCATION.--Lat 35°39'45", long 105°57'45", Hydrologic Unit 13020201.
AQUIFER.--Tesuque Formation of Santa Fe Group.
WELL CHARACTERISTICS.--Drilled monitoring well, diameter 2 in., depth 1,060 ft, screened interval 1,025-1,030 ft.
INSTRUMENTATION.--Pressure transducer, 1-hour measurement.
DATUM.--Elevation of land-surface datum is 6,880 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of steel casing, 2.70 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--Oct. 1998 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 187.41 ft below land-surface datum, Mar. 2, 1999; lowest measured, 217.92 ft below land-surface datum, Sept. 28, 2001.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	213.41	214.69	215.33	214.75	214.07	212.06	212.98	213.59	213.86	214.87	216.89	217.45
10	213.78	214.75	213.32	214.27	213.37	212.09	213.10	213.84	213.05	215.12	217.64	217.58
15	213.89	216.23	213.45	214.06	212.88	212.13	213.37	213.95	213.53	215.22	217.43	217.69
20	214.19	216.37	213.86	213.81	212.59	212.46	213.53	214.08	213.96	215.41	217.33	217.82
25	214.48	215.82	214.02	213.71	212.12	212.70	213.58	214.13	214.39	215.64	217.38	217.82
EOM	214.57	215.41	214.08	214.37	212.15	212.83	213.65	214.30	214.61	215.77	217.40	217.78

WTR YEAR 2001 HIGHEST 211.97 MAR 02 LOWEST 217.92 SEP 28

353945105574503. Local number, 17N.09E.35.1314C.
LOCATION.--Lat 35°39'45", long 105°57'45", Hydrologic Unit 13020201.
AQUIFER.--Tesuque Formation of Santa Fe Group.
WELL CHARACTERISTICS.--Drilled monitoring well, diameter 2 in., depth 780 ft, screened interval 669-674 ft.
INSTRUMENTATION.--Pressure transducer, 1-hour measurement.
DATUM.--Elevation of land-surface datum is 6,880 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of steel casing, 3.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--Oct. 1998 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 240.00 ft below land-surface datum, Oct. 17, 1998; lowest measured, 349.66 ft below land-surface datum, Oct. 24, 25, 26, 2001.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	348.99	349.47	289.86	340.79	299.62	288.91	287.83	286.96	287.53	331.98	328.48	292.63
10	349.26	349.03	305.19	334.16	293.91	288.57	287.53	286.97	308.31	332.85	306.28	292.23
15	349.40	329.48	332.06	333.47	291.50	288.34	287.35	287.10	321.83	333.25	298.59	291.79
20	349.59	304.74	338.07	333.32	290.38	288.24	287.18	287.16	327.20	333.28	295.69	291.34
25	349.65	296.11	343.06	332.05	289.56	288.16	287.07	287.23	329.76	333.65	294.23	290.97
EOM	349.27	292.18	345.74	315.63	289.29	287.98	287.04	287.37	331.05	334.36	293.21	290.61

WTR YEAR 2001 HIGHEST 286.92 MAY 07 LOWEST 349.66 OCT 24, 25, 26

SANTA FE COUNTY--Continued
Santa Fe Area

355000106092802. Local number, 19N.07E.36.3113B.
LOCATION.--Lat 35°50'00", long 106°09'28", Hydrologic Unit 13020201.
AQUIFER.--Tesuque Formation of Santa Fe Group.
WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4.5 in., depth 824 ft, screened 802-812 ft.
INSTRUMENTATION.--Transducer and data logger, 1-hour measurements.
DATUM.--Elevation of land-surface datum is 5,540 ft above National Geodetic Vertical Datum of 1929. Measuring point: 1.80 ft above land-surface datum.
REMARKS.--Records poor, due to transducer malfunction.
PERIOD OF RECORD.--Feb. 1999 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 321.57 ft below land-surface datum, Apr. 27, 2000; lowest measured, 519.10 ft below land-surface datum, Nov. 24, 1999.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	497.80	481.59	504.32	492.04	469.44	---	---	---	---	---	---	---
10	499.12	499.34	499.86	489.98	475.06	---	---	---	---	---	---	---
15	499.60	501.65	498.43	489.42	474.05	---	---	---	---	---	---	---
20	501.04	502.55	496.98	480.24	---	---	---	---	---	---	---	---
25	500.09	503.12	495.38	483.12	---	---	---	---	---	---	---	---
EOM	498.48	504.37	493.40	454.05	---	---	---	---	---	---	---	---

WTR YEAR 2001 HIGHEST 481.59 NOV 05 LOWEST 505.20 DEC 04

355000106092803. Local number, 19N.07E.36.3113C.
LOCATION.--Lat 35°50'00", long 106°09'28", Hydrologic Unit 13020201.
AQUIFER.--Tesuque Formation of Santa Fe Group.
WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 4.5 in., depth 356 ft, screened 324-334 ft.
INSTRUMENTATION.--Transducer and data logger, 1-hour measurements.
DATUM.--Elevation of land-surface datum is 5,540 ft above National Geodetic Vertical Datum of 1929. Measuring point: 1.80 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--July 1997 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 214.06 ft below land-surface datum, May 4, 1999; lowest measured, 230.09 ft below land-surface datum, Sept. 18, 2001.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	226.81	226.93	227.73	227.91	228.23	228.70	228.39	227.63	228.02	229.03	228.51	229.15
10	226.97	227.18	227.56	227.72	228.25	228.27	228.06	228.08	227.36	229.04	229.38	229.34
15	227.03	227.20	227.52	227.78	228.29	228.49	228.58	228.82	228.33	229.14	228.97	229.46
20	227.08	227.61	227.57	228.02	228.49	228.65	228.67	228.51	228.68	229.14	228.19	229.64
25	227.18	227.52	227.61	228.04	228.33	229.10	228.75	227.99	228.85	229.15	228.99	229.81
EOM	227.09	227.60	227.72	228.49	228.43	228.35	228.79	227.89	228.94	228.56	229.52	229.88

WTR YEAR 2001 HIGHEST 226.79 OCT 2, 3 LOWEST 230.09 SEP 18

SIERRA COUNTY
Hot Springs Area

331002107150001. Local number, 13S.04W.21.213.
LOCATION.--Lat 33°10'02", long 107°15'00", Hydrologic Unit 13030101.
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, 46.54 ft below land-surface datum, Feb. 28, 1997; lowest measured, 65.56 ft below land-surface datum, Feb. 25, 1972.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 15	48.44	JUL 26	49.49

325921107185101. (formerly 325550107184001) Local number, 15S.05W.24.312.
LOCATION.--Lat 32°59'21", long 107°18'51", Hydrologic Unit 13030101.
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, 47.49 ft below land-surface datum, July 26, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 15	43.48	JUL 26	47.49

SIERRA COUNTY--Continued
Rincon Valley

325340107183001. (formerly 325350107175501) Local number, 16S.05W.25.211.
LOCATION.--Lat 32°53'40", long 107°18'30", Hydrologic Unit 13030102.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 15	23.18	JUL 26	23.40

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.
AQUIFER.--Valley fill.
WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 10 in., depth 500 ft.
INSTRUMENTATION.--Digital recorder, 1-hour measurement.
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.
REMARKS.--Records good.
PERIOD OF RECORD.--Sep. 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.50 ft below land-surface datum, Jan. 16, 1994; lowest measured, 77.33 ft below land-surface datum, Aug. 9, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	69.12	68.96	69.11	69.39	69.45	69.60	69.66	69.64	69.76	69.86	69.85	69.60
10	69.09	69.04	69.09	69.37	69.46	69.42	69.54	69.68	69.82	69.88	69.83	69.62
15	69.10	69.03	69.17	69.37	69.46	69.54	69.69	69.69	69.82	69.85	69.81	69.60
20	69.10	69.16	69.24	69.42	69.52	69.63	69.61	69.64	69.81	69.88	69.74	69.61
25	69.06	69.10	69.27	69.34	69.53	69.60	69.71	69.76	69.85	69.88	69.76	69.61
EOM	69.03	69.11	69.32	69.39	69.49	69.60	69.69	69.76	69.88	69.84	69.68	69.66

WTR YEAR 2001 HIGHEST 68.96 NOV 05 LOWEST 69.94 JUL 13

365644105363501. (formerly 365650105370001) Local number, 01S.74W.24.244.
LOCATION.--Lat 36°56'44", long 105°36'35", Hydrologic Unit 13020101.
AQUIFER.--Valley fill.
WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth 270 ft.
INSTRUMENTATION.--Continuous strip-chart recorder.
DATUM.--Elevation of land-surface datum is 7,628 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing 3.00 ft above land-surface datum.
REMARKS.--Records good, missing two days due to recorder malfunction.
PERIOD OF RECORD.--June 1955 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 182.78 ft below land-surface datum, Jan. 17, 1996; lowest measured, 213.53 ft below land-surface datum, Aug. 10, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	184.49	184.07	184.40	184.46	184.23	184.56	184.46	184.31	184.53	184.88	185.05	184.75
10	184.38	184.11	184.10	184.17	184.15	183.93	183.89	184.59	184.71	184.85	185.00	184.91
15	184.43	184.14	184.12	184.12	184.16	184.27	184.58	184.60	184.82	184.78	184.99	184.76
20	184.44	184.58	184.22	184.31	184.44	184.56	184.24	184.36	184.86	184.93	184.91	184.86
25	184.38	184.41	184.27	184.04	184.25	184.40	184.71	184.68	184.81	184.94	184.99	184.87
EOM	184.16	184.42	184.30	184.20	184.18	184.38	184.63	184.66	184.96	184.95	184.87	---

WTR YEAR 2001 HIGHEST 183.77 FEB 08 LOWEST 185.30 AUG 06

365410105345601. (formerly 365410105354501) Local number, 02S.73W.05.244.
LOCATION.--Lat 36°54'10", long 105°34'56", Hydrologic Unit 13020101.
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, 1.00 ft above land-surface datum.
PERIOD OF RECORD.--Feb. 1974 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.86 ft below land-surface datum, Aug. 11, 1995; lowest measured, 84.78 ft below land-surface datum, Jan. 27, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL
LOCKED - UNABLE TO MEASURE	

TORRANCE COUNTY
Estancia Valley

343443106024401. Local number, 04N.09E.07.334.
LOCATION.--Lat 34°34'43", long 106°02'44", Hydrologic Unit 13050001.
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, 110.90 ft below land-surface datum, Aug. 30, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 07	98.69	AUG 30	110.90

344016106070901. (formerly 344016106064701) Local number, 05N.08E.08.424.
LOCATION.--Lat 34°40'16", long 106°07'09", Hydrologic Unit 13050001.
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, 135.70 ft below land-surface datum, July 11, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 07	128.93	AUG 30	PUMPING

344234106070601. (formerly 344234106074901) Local number, 06N.08E.32.212.
LOCATION.--Lat 34°42'34", long 106°07'06", Hydrologic Unit 13050001.
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.
REMARKS.--"R" indicates well recently pumped.
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, 94.69R ft below land-surface datum, Aug. 30, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 07	88.73	AUG 30	94.69 R

344604105574601. (formerly 344622105575501) Local number, 06N.09E.11.211.
LOCATION.--Lat 34°46'04", long 105°57'46", Hydrologic Unit 13050001.
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, 34.43 ft below land-surface datum, Aug. 30, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 07	21.24	AUG 30	34.43

344842106032701. Local number, 07N.08E.25.121.
LOCATION.--Lat 34°48'43", long 106°03'22", Hydrologic Unit 13050001.
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, 72.11 ft below land-surface datum, Aug. 30, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 07	62.08	AUG 30	72.11

UNION COUNTY
Clayton Area

355144103041201. (formerly 360940103083501) Local number, 19N.36E.23.2444.
LOCATION.--Lat 35°51'44", long 103°04'12", Hydrologic Unit 11090102.
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.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 145.22 ft below land-surface datum, Mar. 17, 1971; lowest measured, 158.58S ft below land-surface datum, Aug. 19, 1987.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 13	151.32	JUL 05	150.58

361847103064701. (formerly 361910103170501) Local number, 24N.36E.17.244.
LOCATION.--Lat 36°18'47", long 103°06'47", Hydrologic Unit 11090103.
AQUIFER.--Ogallala Formation.
WELL CHARACTERISTICS.--Drilled water-table unused well, diameter 20 in., depth 231 ft.
INSTRUMENTATION.--Continuous strip-chart recorder removed. 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, 103.51 ft below land-surface datum, July 21, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 14	104.02	JUL 06	104.44

362540103095001. Local number, 25N.35E.02.441.
LOCATION.--Lat 36°25'40", long 103°09'50", Hydrologic Unit 11090103.
AQUIFER.--Ogalalla formation.
WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter unknown, depth 185 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 4,984 ft above National Geodetic Vertical Datum of 1929. Measuring point: Plugged hole in pump base, 1.70 ft above land-surface datum.
PERIOD OF RECORD.--Dec. 1965 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 91.14 ft below land-surface datum, Jan. 9, 1989; lowest measured, 106.85 ft below land-surface datum, Feb. 2, 1971.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 15	94.34	JUL 06	94.34

363410103064801. Local number, 27N.36E.17.434.
LOCATION.--Lat 36°34'10", long 103°06'48", Hydrologic Unit 11100101.
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, 99.20 ft below land-surface datum, July 6, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 22	97.74	JUL 06	99.20

Capulin Area

364444104000201. (formerly 364430103595501) Local number, 29N.28E.18.341.
LOCATION.--Lat 36°44'44", long 104°00'02", Hydrologic Unit 11040001.
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.
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 LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 21	33.72	JUL 06	34.28

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
121 TSUQ-Cenozoic, Quaternary, Tesuque Formation, undifferentiated unit
210 MNCS-Mesozoic, Cretaceous, Mancos Shale
231 CHNL-Upper Triassic, Chinle Formation
325 MDER-Paleozoic, Middle Pennsylvanian, Des Moinesian, Madera Limestone
400 PCMB-Paleozoic, Precambrian, Precambrian Earthem

LOCAL IDENTIFIER,--Indicates location by New Mexico or Texas local well number, if area not surveyed location by site name.

REMARKS.--Ground-water sites in this table are segregated by county which appear alphabetically. The sites are then listed in ascending well numbers that are explained at the beginning of this report.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

BERNALLILO COUNTY

LOCAL IDENT-I-FIER	STATION NUMBER	COUNTY	STATION TYPE	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)	TEMPER-ATURE WATER (DEG C) (00010)
10N.05E.02.233A	350721106222101	001	GW	09-10-01	1400	--	200	6765.00	730	15.0
10N.05E.11.324	350615106223301	001	GW	09-05-01	1800	210MNCS	80.0	6580.00	770	15.0
10N.05E.22.234	350449106231901	001	GW	09-10-01	1030	--	--	6355	960	14.9
10N.05E.30.213A	350410106262601	001	GW	09-10-01	1700	110AVMB	120	6030.00	1590	17.0
10N.06E.13.321	350525106151701	001	GW	09-14-01	1330	325MDER	275	6775.00	1950	15.0
11N.05E.24.412	350949106211801	001	GW	09-06-01	1300	--	260	6940	500	13.1
11N.05E.24.443	350930106210701	001	GW	09-05-01	1600	231CHNL	120	6860	1350	14.0
11N.06E.19.122	351014106202801	001	GW	09-05-01	1400	--	--	6798	960	14.5

LOCAL IDENT-I-FIER	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)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 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)
10N.05E.02.233A	09-10-01	2	.85	.051	E.07	48	168	318	13.3	.9	10.9
10N.05E.11.324	09-05-01	360	107	22.0	.90	.6	26.1	187	13.4	.2	18.5
10N.05E.22.234	09-10-01	380	79.4	44.4	4.35	1	49.1	180	92.8	.3	17.2
10N.05E.30.213A	09-10-01	640	187	41.4	6.28	1	73.3	133	266	1.5	20.0
10N.06E.13.321	09-14-01	820	261	40.1	1.51	.9	59.7	137	400	.2	18.7
11N.05E.24.412	09-06-01	250	87.1	7.82	.65	.2	6.6	128	10.5	.3	15.4
11N.05E.24.443	09-05-01	580	196	22.3	1.10	.6	31.5	129	184	E.1	27.0
11N.06E.19.122	09-05-01	400	121	24.3	1.38	.6	29.0	130	134	.2	25.6

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

BERNALILLO COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)
10N.05E.02.233A	09-10-01	42.0	--	<.040	E.06	.843	E.003	.008	E.016	E.38	E1.8
10N.05E.11.324	09-05-01	58.0	362	<.040	<.10	.892	<.006	.016	<.020	9.4	<2.0
10N.05E.22.234	09-10-01	116	513	<.040	<.10	.235	E.004	<.006	<.020	1.3	E1.6
10N.05E.30.213A	09-10-01	131	878	<.040	E.09	16.5	<.006	<.006	<.020	1.7	<2.0
10N.06E.13.321	09-14-01	142	1040	<.040	.24	7.58	<.006	.015	E.011	3.7	<2.0
11N.05E.24.412	09-06-01	14.9	221	<.040	<.10	.300	<.006	.013	<.020	E.40	<2.0
11N.05E.24.443	09-05-01	34.1	662	<.040	.10	20.0	<.006	.024	E.012	1.5	E1.2
11N.06E.19.122	09-05-01	56.5	483	<.040	E.09	2.99	<.006	.014	<.020	2.4	E1.6

LOCAL IDENT-I-FIER	DATE	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)
10N.05E.02.233A	09-10-01	622	<10	E1.6
10N.05E.11.324	09-05-01	38	40	3.9
10N.05E.22.234	09-10-01	196	210	15.8
10N.05E.30.213A	09-10-01	67	10	4.2
10N.06E.13.321	09-14-01	51	50	5.1
11N.05E.24.412	09-06-01	E10	<10	<3.0
11N.05E.24.443	09-05-01	54	<10	<3.0
11N.06E.19.122	09-05-01	47	<10	<3.0

Remark codes used in this report:
< -- Less than
E -- Estimated value

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DONA ANA COUNTY

LOCAL IDENT-I-FIER	STATION NUMBER	COUNTY	STATION TYPE	DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
21S.04E.10.233 (HTA-24)	322947106311101	013	GW	10-18-00	1535	400PCMB	163	5691.94	.2	7.3
				01-24-01	1350	400PCMB	163	5691.94	--	7.2
				04-04-01	1240	400PCMB	163	5691.94	.6	7.6
				07-11-01	1400	400PCMB	163	5691.94	.1	7.4
21S.04E.10.322A (HTA-12)	322943106312301	013	GW	10-18-00	0950	400PCMB	155	5755.18	1.9	6.9
				01-24-01	1100	400PCMB	155	5755.18	1.9	7.3
				04-04-01	0945	400PCMB	155	5755.18	1.8	7.0
				07-11-01	1005	400PCMB	155	5755.18	1.5	7.0
21S.04E.10.324 (HTA-23)	322935106311801	013	GW	10-18-00	1240	400PCMB	135	5679.70	2.3	7.3
				01-25-01	1605	400PCMB	135	5679.70	.7	7.5
				04-05-01	1550	400PCMB	135	5679.70	1.2	7.3
				07-11-01	1220	400PCMB	135	5679.70	1.0	7.3
21S.04E.10.411B (HTA-11)	322941106311301	013	GW	10-18-00	1415	400PCMB	85	5691.25	5.5	7.1
				01-24-01	1410	400PCMB	85	5691.25	5.3	7.3
				04-04-01	1250	400PCMB	85	5691.25	4.8	7.2
				07-11-01	1305	400PCMB	85	5691.25	5.2	7.0
21S.04E.10.411C (HTA-10A)	322941106311502	013	GW	10-18-00	1320	400PCMB	80	5687.96	5.2	7.2
				01-24-01	1510	400PCMB	80	5687.96	4.4	7.4
				04-04-01	1345	400PCMB	80	5687.96	4.0	7.2
				07-11-01	1405	400PCMB	80	5687.96	4.4	7.0
21S.04E.10.411D (HTA-14)	322939106311701	013	GW	10-18-00	1145	400PCMB	110	5695.75	3.7	7.1
				01-24-01	1315	400PCMB	110	5695.75	5.4	7.5
				04-04-01	1155	400PCMB	110	5695.75	4.7	7.2
				07-11-01	1210	400PCMB	110	5695.75	4.8	7.0
21S.04E.10.411E (HTA-20)	322943106311401	013	GW	10-18-00	1500	400PCMB	100	5699.34	5.2	7.2
				01-24-01	1210	400PCMB	100	5699.34	3.3	7.0
				04-04-01	1130	400PCMB	100	5699.34	4.1	7.4
				07-11-01	1115	400PCMB	100	5699.34	4.6	7.1
21S.04E.10.411G (HTA-29)	322944106311601	013	GW	10-18-00	1405	400PCMB	158	5723.32	.4	7.3
				01-24-01	1110	400PCMB	158	5723.32	--	6.9
				04-04-01	1015	400PCMB	158	5723.32	.7	7.4
				07-11-01	1030	400PCMB	158	5723.32	.2	7.0
21S.04E.10.412 (HTA-25)	322943106310501	013	GW	10-19-00	1340	400PCMB	120	5643.55	.8	7.9
				01-24-01	1510	400PCMB	120	5643.55	.3	7.2
				04-04-01	1350	400PCMB	120	5643.55	.8	7.5
				07-11-01	1450	400PCMB	120	5643.55	.8	7.4
21S.04E.10.413A (HTA-13)	322938106311601	013	GW	10-18-00	1045	400PCMB	120	5689.92	7.6	7.1
				01-24-01	1205	400PCMB	120	5689.92	6.0	7.5
				04-04-01	1045	400PCMB	120	5689.92	5.2	7.2
				07-11-01	1100	400PCMB	120	5689.92	4.1	7.2
21S.04E.10.413B (HTA-21)	322933106310901	013	GW	10-18-00	1005	400PCMB	110	5619.35	.7	--
				01-25-01	1320	400PCMB	110	5619.35	.4	7.7
				04-06-01	1015	400PCMB	110	5619.35	--	7.7
				07-11-01	1700	400PCMB	110	5619.35	.6	7.7
21S.04E.10.414A (HTA-15)	322938106310801	013	GW	10-19-00	1100	400PCMB	102	5642.92	4.3	7.0
				01-25-01	1435	400PCMB	102	5642.92	4.0	7.3
				04-05-01	1535	400PCMB	102	5642.92	5.0	7.1
				07-12-01	1000	400PCMB	102	5642.92	5.9	6.8

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	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)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)
21S.04E.10.233	10-18-00	995	19.6	410	114	29.7	2.19	1	69.4	266	--
	01-24-01	1020	19.2	410	116	29.1	2.08	1	67.6	267	263
	04-04-01	977	19.9	400	113	28.5	2.23	1	63.9	269	258
	07-11-01	1010	20.5	390	109	28.5	1.93	1	64.8	266	--
21S.04E.10.322A	10-18-00	966	18.9	390	110	27.7	1.36	1	60.6	270	--
	01-24-01	--	18.9	390	110	28.0	1.35	1	64.0	270	--
	04-04-01	949	19.6	410	116	28.7	1.46	1	62.6	275	--
	07-11-01	980	19.8	390	105	30.1	1.24	1	59.2	272	--
21S.04E.10.324	10-18-00	697	20.0	270	78.1	18.8	2.60	1	44.5	209	--
	01-25-01	--	19.3	270	77.4	18.7	2.64	1	45.6	211	207
	04-05-01	739	20.5	270	78.2	18.5	2.79	1	43.5	213	203
	07-11-01	712	20.6	280	78.4	19.2	2.50	1	44.9	211	--
21S.04E.10.411B	10-18-00	947	19.5	380	107	28.6	1.04	1	60.8	257	--
	01-24-01	--	19.5	390	107	28.8	1.03	1	63.0	257	--
	04-04-01	936	20.2	400	112	28.8	1.09	1	59.9	260	--
	07-11-01	959	20.5	390	109	28.3	.96	1	59.1	257	--
21S.04E.10.411C	10-18-00	914	19.0	360	100	26.9	1.30	1	58.4	246	--
	01-24-01	--	19.1	350	97.9	26.2	1.32	1	58.9	245	--
	04-04-01	896	20.1	370	103	26.5	1.38	1	57.4	248	--
	07-11-01	917	20.3	350	96.5	27.3	1.22	1	54.6	245	--
21S.04E.10.411D	10-18-00	885	19.3	350	94.5	26.9	1.32	1	56.4	224	--
	01-24-01	--	19.5	350	96.1	26.0	1.16	1	55.2	224	--
	04-04-01	880	20.3	360	99.1	27.2	1.35	1	57.2	227	--
	07-11-01	903	20.2	340	89.8	28.3	1.29	1	53.7	224	--
21S.04E.10.411E	10-18-00	1000	19.6	410	115	28.5	.98	1	65.7	245	--
	01-24-01	--	19.2	440	125	31.3	1.00	1	72.3	246	237
	04-04-01	983	20.0	410	117	28.3	1.04	1	65.7	250	--
	07-11-01	1010	20.5	390	110	27.2	.99	1	62.9	247	--
21S.04E.10.411G	10-18-00	1000	20.0	380	109	25.8	1.25	2	76.8	280	--
	01-24-01	--	19.4	370	106	25.4	1.45	2	75.0	278	285
	04-04-01	986	20.2	390	115	26.3	1.51	2	74.5	280	267
	07-11-01	1010	20.5	370	107	26.1	1.34	2	70.8	280	--
21S.04E.10.412	10-19-00	--	19.3	380	107	26.5	2.63	2	67.8	243	--
	01-24-01	985	19.3	380	109	25.7	2.92	1	65.5	245	233
	04-04-01	948	20.4	380	109	26.1	2.69	1	64.0	243	232
	07-11-01	977	20.5	370	105	26.1	2.30	1	63.7	237	--
21S.04E.10.413A	10-18-00	864	19.3	330	91.8	25.6	1.40	1	53.9	229	--
	01-24-01	--	19.5	340	93.8	25.1	1.45	1	54.3	230	--
	04-04-01	852	20.1	360	101	26.2	1.52	1	52.5	233	--
	07-11-01	874	20.2	330	87.8	25.9	1.35	1	47.0	231	--
21S.04E.10.413B	10-18-00	885	19.6	340	97.8	23.5	1.63	1	57.3	205	--
	01-25-01	--	19.4	340	97.9	23.2	1.75	1	58.7	204	201
	04-06-01	879	18.9	350	101	23.5	1.98	1	57.0	204	193
	07-11-01	887	20.6	330	94.3	22.9	1.85	1	55.0	201	--
21S.04E.10.414A	10-19-00	--	19.4	380	110	25.7	1.20	1	60.8	216	--
	01-25-01	--	19.2	400	116	26.4	1.35	1	62.6	216	--
	04-05-01	988	20.1	390	114	26.3	1.40	1	62.2	219	--
	07-12-01	996	20.5	370	106	26.9	1.25	1	57.3	217	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	ANC BICAR-BONATE IT FIELD MG/L AS HCO3 (00450)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	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)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	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)
21S.04E.10.233	10-18-00	--	.26	35.3	7.1	25.5	211	662	654	50	<10
	01-24-01	321	.26	32.4	6.7	24.8	210	686	647	41	<10
	04-04-01	314	.29	34.0	6.2	24.5	204	676	631	45	<10
	07-11-01	--	.28	34.2	4.1	24.9	206	666	634	40	<10
21S.04E.10.322A	10-18-00	--	.28	29.6	6.6	24.1	197	641	620	38	<10
	01-24-01	--	.27	29.2	7.3	24.1	198	653	625	40	<10
	04-04-01	--	.30	30.4	7.6	23.6	194	664	630	40	<10
	07-11-01	--	.26	29.5	3.9	24.9	196	663	614	41	<10
21S.04E.10.324	10-18-00	--	.18	23.6	6.9	24.3	107	437	431	29	<10
	01-25-01	256	.18	22.2	7.9	24.5	106	443	431	29	<10
	04-05-01	250	.20	23.4	8.4	24.4	105	450	428	34	<10
	07-11-01	--	.19	26.0	5.1	25.0	107	450	435	27	<10
21S.04E.10.411B	10-18-00	--	.28	29.2	6.3	25.4	168	630	581	58	<10
	01-24-01	--	.29	29.4	7.2	22.7	170	635	583	54	<10
	04-04-01	--	.31	30.8	7.3	24.4	168	647	588	54	<10
	07-11-01	--	.28	30.8	4.6	25.8	171	651	585	50	<10
21S.04E.10.411C	10-18-00	--	.26	27.5	8.0	25.7	158	601	554	68	<10
	01-24-01	--	.27	27.6	7.6	24.8	157	606	548	61	<10
	04-04-01	--	.29	28.0	8.2	23.7	154	619	552	64	<10
	07-11-01	--	.26	28.4	4.3	26.2	159	618	545	59	<10
21S.04E.10.411D	10-18-00	--	.23	33.7	7.4	23.8	152	578	531	113	<10
	01-24-01	--	.21	33.6	4.7	23.4	154	602	529	112	30
	04-04-01	--	.25	35.1	8.2	23.0	149	600	537	118	<10
	07-11-01	--	.20	36.5	4.1	24.0	153	602	526	114	<10
21S.04E.10.411E	10-18-00	--	.27	42.9	9.2	24.0	177	671	611	49	<10
	01-24-01	288	.26	41.3	6.1	23.3	175	674	617	54	<10
	04-04-01	--	.30	43.4	8.3	23.2	172	678	610	42	<10
	07-11-01	--	.25	42.9	4.5	24.6	174	690	596	41	<10
21S.04E.10.411G	10-18-00	--	.26	30.4	5.6	25.4	211	665	655	43	450
	01-24-01	348	.26	30.2	5.5	24.2	209	666	649	38	300
	04-04-01	326	.29	31.4	7.4	23.6	206	678	646	42	120
	07-11-01	--	.27	32.0	4.2	24.7	207	662	642	40	270
21S.04E.10.412	10-19-00	--	.27	38.0	7.7	21.7	190	634	607	45	<10
	01-24-01	287	.28	36.9	7.2	21.0	188	655	598	42	<10
	04-04-01	287	.30	39.0	6.2	20.9	184	656	593	46	<10
	07-11-01	--	.28	39.1	4.0	21.6	187	657	591	42	<10
21S.04E.10.413A	10-18-00	--	.25	32.8	6.5	23.4	148	563	522	36	<10
	01-24-01	--	.25	31.9	5.5	22.0	146	569	518	34	<10
	04-04-01	--	.27	33.0	7.1	22.8	145	576	529	31	<10
	07-11-01	--	.25	31.6	4.0	24.9	148	578	509	33	<10
21S.04E.10.413B	10-18-00	--	.26	38.1	8.2	20.9	154	580	525	37	<10
	01-25-01	245	.25	36.8	5.7	20.6	151	601	516	40	<10
	04-06-01	236	.30	38.6	7.1	19.8	149	589	514	37	<10
	07-11-01	--	.26	39.1	4.0	20.9	151	596	510	38	<10
21S.04E.10.414A	10-19-00	--	.27	53.2	8.2	23.5	167	652	580	37	<10
	01-25-01	--	.27	50.7	6.3	22.5	164	656	581	44	<10
	04-05-01	--	.29	53.4	7.5	17.7	162	668	577	44	<10
	07-12-01	--	.26	48.1	4.1	24.2	163	678	561	41	<10

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
21S.04E.10.233	10-18-00	19.4	413
	01-24-01	17.5	390
	04-04-01	16.2	378
	07-11-01	15.6	370
21S.04E.10.322A	10-18-00	18.7	275
	01-24-01	19.4	275
	04-04-01	19.1	282
	07-11-01	19.5	269
21S.04E.10.324	10-18-00	20.0	173
	01-25-01	19.8	172
	04-05-01	17.3	171
	07-11-01	19.0	174
21S.04E.10.411B	10-18-00	16.4	276
	01-24-01	11.2	277
	04-04-01	13.7	276
	07-11-01	18.2	283
21S.04E.10.411C	10-18-00	15.6	251
	01-24-01	9.8	241
	04-04-01	14.4	244
	07-11-01	15.2	239
21S.04E.10.411D	10-18-00	14.3	272
	01-24-01	6.9	255
	04-04-01	13.5	271
	07-11-01	13.8	257
21S.04E.10.411E	10-18-00	17.8	250
	01-24-01	17.3	272
	04-04-01	16.9	244
	07-11-01	16.5	244
21S.04E.10.411G	10-18-00	17.8	261
	01-24-01	17.3	252
	04-04-01	15.8	261
	07-11-01	16.2	251
21S.04E.10.412	10-19-00	18.4	245
	01-24-01	16.0	229
	04-04-01	15.8	228
	07-11-01	16.2	225
21S.04E.10.413A	10-18-00	18.7	214
	01-24-01	17.2	205
	04-04-01	16.0	213
	07-11-01	17.2	186
21S.04E.10.413B	10-18-00	20.3	262
	01-25-01	20.3	262
	04-06-01	17.8	271
	07-11-01	24.8	272
21S.04E.10.414A	10-19-00	17.9	250
	01-25-01	17.8	254
	04-05-01	17.7	258
	07-12-01	19.4	241

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	COUNTY	STATION TYPE	DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
21S.04E.10.414B (HTA-16)	322937106310901	013	GW	10-18-00	1550	400PCMB	103	5641.18	4.7	7.4
				01-25-01	1216	400PCMB	103	5641.18	5.7	7.3
				04-05-01	1445	400PCMB	103	5641.18	6.1	7.2
				07-11-01	1550	400PCMB	103	5641.18	6.4	7.2
21S.04E.10.414C (HTA-17)	322936106311001	013	GW	10-19-00	1240	400PCMB	110	5641.49	3.0	7.0
				01-24-01	1600	400PCMB	110	5641.49	4.7	7.4
				04-04-01	1430	400PCMB	110	5641.49	4.6	7.2
				07-11-01	1455	400PCMB	110	5641.49	4.9	7.1
21S.04E.10.414D (HTA-16D)	322937106310902	013	GW	10-19-00	1000	400PCMB	159	5637.96	3.0	6.9
				01-25-01	1345	400PCMB	159	5637.96	3.2	7.2
				04-05-01	1400	400PCMB	159	5637.96	3.6	7.0
				07-11-01	1635	400PCMB	159	5637.96	3.8	7.1
21S.04E.10.421 (HTA-30)	322939106305701	013	GW	10-19-00	1610	400PCMB	200	5568.09	6.0	8.0
				01-25-01	1025	400PCMB	200	5568.09	6.1	7.4
				04-05-01	1400	400PCMB	200	5568.09	3.1	7.6
				07-12-01	1010	400PCMB	200	5568.09	5.8	7.3
21S.04E.10.422 (HTA-26)	322940106305101	013	GW	10-19-00	1245	400PCMB	200	5531.54	.2	7.9
				01-24-01	1645	400PCMB	200	5531.54	.8	7.2
				04-04-01	1510	400PCMB	200	5531.54	.4	7.7
				07-11-01	1610	400PCMB	200	5531.54	.1	7.6
21S.04E.10.423 (HTA-19)	322935106310301	013	GW	10-19-00	1345	400PCMB	147	5594.83	5.2	6.9
				01-25-01	1524	400PCMB	147	5594.83	4.1	7.3
				04-04-01	1520	400PCMB	147	5594.83	5.2	7.2
				07-12-01	1050	400PCMB	147	5594.83	6.2	6.8
21S.04E.10.434 (HTA-22)	322924106310501	013	GW	10-18-00	1120	400PCMB	110	5557.15	4.7	7.4
				01-25-01	1450	400PCMB	110	5557.15	3.5	7.5
				04-06-01	0925	400PCMB	110	5557.15	5.5	7.5
				07-12-01	1140	400PCMB	110	5557.15	5.3	6.7
21S.04E.10.441 (HTA-18)	322932106305601	013	GW	10-19-00	1445	400PCMB	130	5536.59	5.6	6.9
				01-25-01	1621	400PCMB	130	5536.59	4.6	7.3
				04-04-01	1610	400PCMB	130	5536.59	5.9	7.2
				07-12-01	1240	400PCMB	130	5536.59	6.9	7.0
21S.04E.10.442 (HTA-27)	322927106305101	013	GW	10-19-00	1115	400PCMB	179	5494.5	.2	8.0
				01-25-01	1215	400PCMB	179	5494.5	.1	7.7
				04-04-01	1730	400PCMB	179	5494.5	.9	7.7
				07-12-01	1440	400PCMB	179	5494.5	.1	7.0
21S.04E.11.333 (HTA-28)	322923106304601	013	GW	10-19-00	0955	400PCMB	145	5451.22	4.4	7.8
				01-25-01	1025	400PCMB	145	5451.22	3.6	7.4
				04-04-01	1615	400PCMB	145	5451.22	3.0	7.6
				07-12-01	1340	400PCMB	145	5451.22	5.6	6.9
21S.04E.14.114 (HTA-3)	322910106303601	013	GW	10-19-00	1550	400PCMB	161	5355.16	3.2	6.8
				01-26-01	0925	400PCMB	161	5355.16	4.3	7.0
				04-04-01	1655	400PCMB	161	5355.16	4.9	7.0
				07-12-01	1530	400PCMB	161	5355.16	5.4	6.8
21S.04E.22.222 (EMRE WINDM	322310106305101	013	GW	10-20-00	1150	400PCMB	--	5212.82	1.2	6.7
				01-26-01	1215	400PCMB	--	5212.82	.8	6.9
				04-05-01	1140	400PCMB	--	5212.82	1.4	7.1
				07-12-01	1540	400PCMB	--	5212.82	1.6	7.0

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	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)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)
21S.04E.10.414B	10-18-00	994	19.4	390	113	26.8	.84	1	63.2	225	--
	01-25-01	--	19.0	390	115	25.7	.91	1	61.1	225	--
	04-05-01	999	20.2	400	117	26.5	.91	1	63.2	228	--
	07-11-01	1000	20.3	390	113	25.8	.81	1	59.5	226	--
21S.04E.10.414C	10-19-00	--	19.1	380	110	26.3	1.19	1	61.2	213	--
	01-24-01	--	19.0	390	113	26.4	1.11	1	61.8	213	--
	04-04-01	969	20.1	380	110	26.2	1.34	1	60.5	216	--
	07-11-01	993	20.4	360	104	25.0	1.15	1	57.9	214	--
21S.04E.10.414D	10-19-00	921	19.7	380	109	25.7	1.56	2	68.3	214	--
	01-25-01	--	18.8	380	111	25.6	1.66	2	68.6	215	--
	04-05-01	998	20.7	370	107	24.8	1.75	1	64.5	218	--
	07-11-01	999	20.8	370	105	25.6	1.66	1	64.2	216	--
21S.04E.10.421	10-19-00	--	21.0	360	98.3	26.9	1.09	1	62.3	231	--
	01-25-01	--	19.3	360	98.4	26.6	1.18	1	62.1	225	221
	04-05-01	911	21.8	350	96.8	25.9	1.23	1	60.6	223	217
	07-12-01	928	23.3	340	93.9	25.5	1.19	1	58.1	223	--
21S.04E.10.422	10-19-00	--	20.0	350	99.2	25.0	3.41	2	67.8	248	--
	01-24-01	955	20.0	360	103	25.3	3.49	2	68.2	245	253
	04-04-01	912	21.1	360	103	25.1	3.47	2	65.7	245	234
	07-11-01	936	21.3	330	92.8	23.3	3.08	1	61.6	241	--
21S.04E.10.423	10-19-00	--	19.8	380	109	25.6	1.41	1	58.4	185	--
	01-25-01	--	19.1	380	112	25.3	1.45	1	60.4	186	--
	04-04-01	970	20.6	400	116	25.8	1.47	1	60.2	188	--
	07-12-01	997	20.9	370	104	27.4	1.33	1	56.6	186	--
21S.04E.10.434	10-18-00	840	19.4	320	93.3	21.8	1.77	1	52.3	220	--
	01-25-01	--	18.9	330	97.1	21.6	1.66	1	53.4	220	216
	04-06-01	833	19.2	330	94.1	21.9	1.75	1	53.2	223	216
	07-12-01	849	20.1	320	88.1	23.3	1.64	1	50.1	220	--
21S.04E.10.441	10-19-00	--	20.0	320	92.5	21.2	.99	1	57.3	192	--
	01-25-01	--	19.3	320	93.1	21.1	1.05	1	58.2	191	--
	04-04-01	832	20.6	320	95.3	21.1	1.18	1	56.6	195	--
	07-12-01	855	21.0	300	84.8	21.8	1.06	1	53.1	191	--
21S.04E.10.442	10-19-00	--	20.1	300	81.9	22.3	2.59	1	46.7	204	--
	01-25-01	--	19.6	290	81.3	22.0	2.36	1	42.8	199	196
	04-04-01	727	21.1	300	84.7	22.0	2.51	1	41.4	203	193
	07-12-01	752	21.6	280	77.6	21.0	2.26	1	38.8	200	--
21S.04E.11.333	10-19-00	--	19.6	300	87.4	19.5	1.13	1	57.4	190	--
	01-25-01	--	19.7	290	86.0	19.3	1.10	2	60.7	189	186
	04-04-01	809	20.7	300	88.5	19.4	1.19	1	58.1	192	182
	07-12-01	839	21.0	280	82.4	18.7	1.09	1	57.9	189	--
21S.04E.14.114	10-19-00	--	19.8	300	86.6	20.0	.77	1	58.9	227	--
	01-26-01	--	19.8	300	85.6	19.7	.83	2	59.4	227	--
	04-04-01	778	20.4	300	88.8	20.1	.85	1	59.4	230	--
	07-12-01	801	20.7	290	81.5	20.7	.82	1	54.2	227	--
21S.04E.22.222	10-20-00	749	20.3	270	84.2	15.5	1.52	1	52.8	191	182
	01-26-01	694	19.8	270	82.6	15.1	1.59	1	53.8	185	176
	04-05-01	710	21.5	270	83.7	14.6	1.76	1	50.2	186	--
	07-12-01	710	21.4	250	76.2	14.0	1.58	1	49.0	182	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	ANC BICAR-BONATE IT FIELD MG/L AS HCO3 (00450)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	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)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	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)
21S.04E.10.414B	10-18-00	--	.25	48.8	7.4	23.7	170	665	590	45	<10
	01-25-01	--	.25	47.0	8.0	24.0	170	694	587	43	<10
	04-05-01	--	.28	49.2	8.8	23.1	164	696	590	43	<10
	07-11-01	--	.24	44.5	4.4	24.2	169	686	578	44	<10
21S.04E.10.414C	10-19-00	--	.27	49.5	8.0	23.3	171	654	578	37	<10
	01-24-01	--	.26	47.9	4.7	22.6	167	684	573	43	<10
	04-04-01	--	.29	49.4	7.2	21.9	167	676	574	37	<10
	07-11-01	--	.26	45.4	4.4	23.9	175	679	566	41	<10
21S.04E.10.414D	10-19-00	--	.26	52.3	7.4	23.9	177	668	594	37	<10
	01-25-01	--	.26	51.1	8.4	22.7	171	664	590	38	<10
	04-05-01	--	.29	52.4	7.7	22.7	169	666	581	37	<10
	07-11-01	--	.25	51.8	4.7	23.7	168	679	574	36	<10
21S.04E.10.421	10-19-00	--	.22	27.1	6.5	22.9	181	600	565	39	<10
	01-25-01	268	.23	28.6	7.3	22.4	179	607	558	41	<10
	04-05-01	268	.24	28.3	6.4	22.3	170	603	543	42	<10
	07-12-01	--	.24	31.5	3.8	23.2	180	623	551	42	<10
21S.04E.10.422	10-19-00	--	.18	34.3	5.2	23.8	198	613	606	44	230
	01-24-01	309	.19	34.0	6.0	23.0	193	618	608	43	150
	04-04-01	289	.23	34.8	5.4	22.7	192	622	595	46	50
	07-11-01	--	.20	35.0	3.1	23.7	195	620	582	41	40
21S.04E.10.423	10-19-00	--	.32	40.8	6.8	20.6	165	658	540	41	<10
	01-25-01	--	.32	39.1	6.1	20.8	164	684	541	43	<10
	04-04-01	--	.34	39.0	7.2	20.8	163	662	546	39	<10
	07-12-01	--	.31	39.1	3.6	22.5	165	674	531	41	<10
21S.04E.10.434	10-18-00	--	.25	31.2	7.5	24.2	133	544	497	34	<10
	01-25-01	261	.24	30.0	5.5	23.1	130	564	491	35	<10
	04-06-01	264	.28	31.8	9.0	23.4	131	555	496	33	<10
	07-12-01	--	.23	31.2	4.6	24.1	131	556	486	34	<10
21S.04E.10.441	10-19-00	--	.26	33.0	7.1	23.3	142	548	492	37	<10
	01-25-01	--	.25	32.2	5.3	22.6	139	570	488	40	<10
	04-04-01	--	.28	33.0	7.7	22.0	139	577	493	38	<10
	07-12-01	--	.25	32.6	4.6	23.5	139	567	476	37	<10
21S.04E.10.442	10-19-00	--	.19	32.1	6.1	27.8	135	481	478	32	110
	01-25-01	237	.19	30.5	6.2	27.4	133	481	463	29	80
	04-04-01	237	.22	31.9	6.0	26.5	132	494	464	30	50
	07-12-01	--	.20	32.5	3.2	28.5	135	486	460	27	50
21S.04E.11.333	10-19-00	--	.25	33.6	7.9	21.9	134	534	477	39	<10
	01-25-01	228	.25	33.8	6.4	21.2	137	540	478	38	<10
	04-04-01	223	.26	35.1	9.0	21.1	135	550	477	44	<10
	07-12-01	--	.24	36.1	5.0	22.3	137	542	474	37	<10
21S.04E.14.114	10-19-00	--	.20	26.9	9.6	25.5	131	506	496	30	<10
	01-26-01	--	.21	25.3	6.2	24.5	129	510	487	31	<10
	04-04-01	--	.22	27.4	9.9	24.5	130	517	499	29	<10
	07-12-01	--	.19	28.4	5.0	25.9	134	519	488	22	<10
21S.04E.22.222	10-20-00	--	.22	27.4	7.7	33.3	152	506	484	25	<10
	01-26-01	222	.22	26.1	5.0	31.1	137	476	462	34	<10
	04-05-01	--	.23	26.6	7.3	28.9	132	475	457	34	<10
	07-12-01	--	.20	26.9	3.9	33.0	129	463	443	27	<10

LOCAL IDENT-I-FIER	DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
21S.04E.10.414B	10-18-00	16.4	312
	01-25-01	14.6	290
	04-05-01	15.6	301
	07-11-01	17.0	305
21S.04E.10.414C	10-19-00	16.5	289
	01-24-01	16.4	285
	04-04-01	17.3	284
	07-11-01	16.4	280
21S.04E.10.414D	10-19-00	19.7	284
	01-25-01	20.3	278
	04-05-01	18.1	270
	07-11-01	18.8	273
21S.04E.10.421	10-19-00	15.2	223
	01-25-01	10.1	216
	04-05-01	13.7	208
	07-12-01	16.8	211
21S.04E.10.422	10-19-00	23.6	291
	01-24-01	22.9	293
	04-04-01	21.2	291
	07-11-01	26.8	275
21S.04E.10.423	10-19-00	14.7	301
	01-25-01	14.3	290
	04-04-01	14.4	297
	07-12-01	18.5	288
21S.04E.10.434	10-18-00	24.5	236
	01-25-01	22.2	228
	04-06-01	24.7	232
	07-12-01	29.1	220
21S.04E.10.441	10-19-00	18.4	212
	01-25-01	18.7	211
	04-04-01	16.9	210
	07-12-01	20.3	200
21S.04E.10.442	10-19-00	22.5	510
	01-25-01	20.9	510
	04-04-01	16.0	507
	07-12-01	19.1	478
21S.04E.11.333	10-19-00	19.3	202
	01-25-01	18.9	202
	04-04-01	16.0	205
	07-12-01	22.5	204
21S.04E.14.114	10-19-00	24.5	263
	01-26-01	23.8	259
	04-04-01	23.7	262
	07-12-01	23.6	247
21S.04E.22.222	10-20-00	26.2	354
	01-26-01	24.7	343
	04-05-01	21.2	327
	07-12-01	29.1	320

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	COUNTY	STATION TYPE	DATE	TIME	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	BARO-METRIC PRES-SURE (MM OF HG) (00025)
21S.04E.23.233A (HTA-1)	322801106300801	013	GW	10-20-00	1020	400PCMB	250	5018.21	--	--
				01-26-01	1030	400PCMB	250	5018.21	--	--
				04-05-01	0955	400PCMB	250	5018.21	--	--
				07-12-01	1640	400PCMB	250	5018.21	--	--
21S.04E.23.233B (EMRE-1)	322804106301701	013	GW	10-20-00	1045	400PCMB	180	5043.16	--	--
				01-26-01	0945	400PCMB	180	5043.16	--	--
				04-05-01	1110	400PCMB	180	5043.16	--	--
				07-12-01	1210	400PCMB	180	5043.16	--	--
21S.04E.23.233C (EMRE-2)	322800106300901	013	GW	10-20-00	0950	400PCMB	100	4993.99	--	--
				01-26-01	1050	400PCMB	100	4993.99	--	--
				04-05-01	0945	400PCMB	100	4993.99	--	--
				07-12-01	1210	400PCMB	100	4993.99	--	--
22S.04E.01.431 T-9	322503106290801	013	GW	07-10-01	1435	110BLSN	598	4410.34	--	--
22S.05E.19.323 SW-21	322237106282801	013	GW	10-19-00	1000	110BLSN	700	4207.00	<1	665
25S.04E.11.123, K-29	320906106302901	013	GW	08-23-01	0920	110BLSN	800	4107.00	--	--

LOCAL IDENT-I-FIER	DATE	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	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)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
21S.04E.23.233A	10-20-00	4.8	--	6.9	728	20.5	--	260	82.5	13.5	1.75
	01-26-01	3.4	--	6.8	694	21.0	--	270	85.0	14.4	1.76
	04-05-01	6.5	--	7.4	727	21.3	--	270	85.0	13.8	1.78
	07-12-01	6.2	--	7.1	739	21.6	--	250	79.8	13.3	1.75
21S.04E.23.233B	10-20-00	6.3	--	7.4	721	21.6	89	260	81.5	13.6	1.69
	01-26-01	4.7	--	7.8	693	21.6	--	260	81.3	13.6	1.85
	04-05-01	2.6	--	7.3	721	22.6	--	270	85.9	13.7	1.78
	07-12-01	5.7	--	7.1	734	22.7	--	250	78.9	13.2	1.68
21S.04E.23.233C	10-20-00	4.5	--	7.3	751	21.0	100	270	86.3	14.2	1.71
	01-26-01	4.3	--	7.8	718	21.3	--	270	85.0	14.1	1.86
	04-05-01	5.4	--	7.2	754	21.9	--	280	90.2	14.3	2.04
	07-12-01	4.5	--	7.2	773	23.9	--	270	83.1	13.9	1.87
22S.04E.01.431	07-10-01	2.1	--	7.6	782	31.5	--	270	72.2	21.2	3.28
22S.05E.19.323	10-19-00	5.2	72	6.9	452	24.5	--	110	30.4	7.74	1.86
25S.04E.11.123	08-23-01	--	--	--	--	--	--	79	25.3	3.69	3.75

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ANC UNFLTRD GRAN T. FIELD (MG/L AS CACO3) (29813)	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)	ANC BICAR-BONATE IT FIELD MG/L AS HCO3 (00450)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
21S.04E.23.233A	10-20-00	1	50.6	179	--	--	168	--	.21	26.3	6.9
	01-26-01	2	57.6	178	--	--	170	209	.21	25.4	4.1
	04-05-01	1	53.4	182	--	--	193	236	.23	26.3	6.7
	07-12-01	1	51.0	179	--	--	--	--	.19	27.9	3.9
21S.04E.23.233B	10-20-00	1	52.2	181	171	--	--	--	.20	25.0	7.1
	01-26-01	1	53.9	181	--	--	171	209	.20	24.4	4.2
	04-05-01	1	50.7	183	--	--	171	211	.22	25.7	6.6
	07-12-01	1	49.5	181	--	--	--	--	.19	27.1	3.8
21S.04E.23.233C	10-20-00	1	54.2	178	173	--	--	--	.22	30.1	8.2
	01-26-01	1	55.2	177	--	--	170	207	.22	29.6	5.6
	04-05-01	1	52.3	181	--	--	174	212	.23	30.7	6.4
	07-12-01	1	52.1	179	--	--	--	--	.22	31.6	3.9
22S.04E.01.431	07-10-01	1	39.8	81	--	84	--	94	.36	66.4	2.1
22S.05E.19.323	10-19-00	.8	18.8	82	--	--	--	--	--	17.3	.4
25S.04E.11.123,	08-23-01	2	49.6	112	--	--	--	--	--	30.7	2.6

LOCAL IDENT-I-FIER	DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
21S.04E.23.233A	10-20-00	31.6	133	475	447	--	--	--	--	--	--
	01-26-01	30.8	130	479	452	--	--	--	--	--	--
	04-05-01	30.6	131	489	465	--	--	--	--	--	--
	07-12-01	32.2	131	486	449	--	--	--	--	--	--
21S.04E.23.233B	10-20-00	32.5	130	477	447	--	--	--	--	--	--
	01-26-01	31.9	130	478	444	--	--	--	--	--	--
	04-05-01	31.3	128	485	448	--	--	--	--	--	--
	07-12-01	33.0	130	487	447	--	--	--	--	--	--
21S.04E.23.233C	10-20-00	31.4	143	500	474	--	--	--	--	--	--
	01-26-01	29.6	142	498	465	--	--	--	--	--	--
	04-05-01	29.5	140	508	470	--	--	--	--	--	--
	07-12-01	32.3	142	508	469	--	--	--	--	--	--
22S.04E.01.431	07-10-01	12.2	183	493	448	--	--	--	--	--	--
22S.05E.19.323	10-19-00	49.3	41.0	230	227	<.041	--	2.37	<.006	--	.038
25S.04E.11.123	08-23-01	31.0	35.5	251	255	<.040	<.10	1.22	<.006	E.003	<.020

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	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)	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)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
21S.04E.23.233A	10-20-00	--	--	--	--	35	--	--	--	--	<10
	01-26-01	--	--	--	--	42	--	--	--	--	M
	04-05-01	--	--	--	--	37	--	--	--	--	M
	07-12-01	--	--	--	--	30	--	--	--	--	<10
21S.04E.23.233B	10-20-00	--	--	--	--	35	--	--	--	--	<10
	01-26-01	--	--	--	--	34	--	--	--	--	<10
	04-05-01	--	--	--	--	36	--	--	--	--	<10
	07-12-01	--	--	--	--	35	--	--	--	--	<10
21S.04E.23.233C	10-20-00	--	--	--	--	33	--	--	--	--	<10
	01-26-01	--	--	--	--	36	--	--	--	--	<10
	04-05-01	--	--	--	--	37	--	--	--	--	<10
	07-12-01	--	--	--	--	35	--	--	--	--	<10
22S.04E.01.431	07-10-01	--	--	--	--	41	--	--	--	--	130
22S.05E.19.323	10-19-00	.71	--	--	--	--	--	--	--	--	--
25S.04E.11.123	08-23-01	--	<15	4.2	94.1	69	<.10	5.6	<13.0	<1.0	<10

LOCAL IDENT-I-FIER	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)
21S.04E.23.233A	10-20-00	--	19.8	--	--	--	--	--	--	322	--
	01-26-01	--	21.3	--	--	--	--	--	--	352	--
	04-05-01	--	17.9	--	--	--	--	--	--	327	--
	07-12-01	--	20.6	--	--	--	--	--	--	324	--
21S.04E.23.233B	10-20-00	--	20.2	--	--	--	--	--	--	331	--
	01-26-01	--	21.5	--	--	--	--	--	--	331	--
	04-05-01	--	16.0	--	--	--	--	--	--	334	--
	07-12-01	--	17.5	--	--	--	--	--	--	322	--
21S.04E.23.233C	10-20-00	--	21.0	--	--	--	--	--	--	337	--
	01-26-01	--	20.9	--	--	--	--	--	--	337	--
	04-05-01	--	15.9	--	--	--	--	--	--	341	--
	07-12-01	--	28.0	--	--	--	--	--	--	336	--
22S.04E.01.431	07-10-01	--	16.3	--	--	--	--	--	--	679	--
22S.05E.19.323	10-19-00	--	--	--	--	--	--	--	--	--	--
25S.04E.11.123	08-23-01	<1.00	24.2	<3.0	<.01	<50.0	<2.00	E1.5	<.2	502	10.8

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
21S.04E.23.233A	10-20-00	--
	01-26-01	--
	04-05-01	--
	07-12-01	--
21S.04E.23.233B	10-20-00	--
	01-26-01	--
	04-05-01	--
	07-12-01	--
21S.04E.23.233C	10-20-00	--
	01-26-01	--
	04-05-01	--
	07-12-01	--
22S.04E.01.431	07-10-01	--
22S.05E.19.323	10-19-00	--
25S.04E.11.123	08-23-01	37

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENT-I-FIER	DATE	TIME	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
22S.05E.19.323 SW-21	10-19-00	1000	.71	<.002	<.004	<.002	<.005	<.007	<.010	<.002	<.041

LOCAL IDENT-I-FIER	DATE	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	DISULFOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHALFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
22S.05E.19.323	10-19-00	<.020	<.005	<.018	<.003	<.006	<.005	<.005	<.021	<.002	<.009

LOCAL IDENT-I-FIER	DATE	ETHOPROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARATHION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
22S.05E.19.323	10-19-00	<.005	.150	<.004	<.035	<.027	<.050	<.006	<.013	<.006	<.002

LOCAL IDENT-I-FIER	DATE	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARATHION, DISSOLVED (UG/L) (39542)	PEBULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PERMETHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)
22S.05E.19.323	10-19-00	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.015	<.004	<.010

LOCAL IDENT-I-FIER	DATE	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PROPARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TERBUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
22S.05E.19.323	10-19-00	<.011	<.023	<.011	<.016	<.034	<.017	<.005	<.002	E.004

Remark codes used in this report:
< -- Less than
E -- Estimated value

Null value remark codes used in this report:
M -- Presence verified, not quantified

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LINCOLN COUNTY

LOCAL IDENTIFIER	STATION NUMBER	COUNTY	STATION TYPE	DATE	TIME	GEOLOGIC UNIT	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MOUND SPRING (UPPER POND)	332535106170501	027	SP	05-15-01	1200	110AVMB	.07	657	7.8	109

LOCAL IDENTIFIER	DATE	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)
MOUND SPRING	05-15-01	8.3	5200	27.5	23.5	2300	2400	714	153	4.74	3

LOCAL IDENTIFIER	DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)
MOUND SPRING	05-15-01	392	88	89	109	.35	739	1.3	12.2	2010	4340

LOCAL IDENTIFIER	DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)
MOUND SPRING	05-15-01	4090	.056	.24	.47	.082	E.003	<.006	E.010	.019	E42

LOCAL IDENTIFIER	DATE	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BORON, DISSOLVED (UG/L AS B) (01020)	BORON, TOTAL RECOVERABLE (UG/L AS B) (01022)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
MOUND SPRING	05-15-01	E69	<6.0	E1	10.5	11.0	246	253	<.30	<.30	<8.0

LOCAL IDENTIFIER	DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, DISSOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, DISSOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI) (01132)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
MOUND SPRING	05-15-01	6	E1.6	E2.3	<30	300	<2.00	<2	49.2	49.3	E7.4

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LINCOLN COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DISSOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR) (01082)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
MOUND SPRING	05-15-01	13	<.02	<.02	E3.7	3.9	<.3	<.90	10100	9260	E40

LOCAL IDENT-I-FIER	DATE	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
MOUND SPRING	05-15-01	<93

CHEMICAL ANALYSES OF ORGANIC COMPOUNDS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

LOCAL IDENT-I-FIER	DATE	TIME	2,4-DP TOTAL (UG/L) (82183)	2,4,5-T TOTAL (UG/L) (39740)	2,4-D, TOTAL (UG/L) (39730)	SILVEX, TOTAL (UG/L) (39760)
MOUND SPRING (UPPER POND)	05-15-01	1200	<.04	<.01	<.01	<.01

Remark codes used in this report:
< -- Less than
E -- Estimated value

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OTERO COUNTY

LOCAL IDENT-I-FIER	STATION NUMBER	COUNTY	STATION TYPE	DATE	TIME	GEO-LOGIC UNIT	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
MALPAIS SPRING NR OSCURA,	331715106183301	035	SP	05-15-01	1015	110AVMB	2.0	657	8.0	93

LOCAL IDENT-I-FIER	DATE	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	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)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)
MALPAIS SPRING	05-15-01	8.0	5700	21.5	14.5	2300	2300	676	147	6.43	6

LOCAL IDENT-I-FIER	DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	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)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
MALPAIS SPRING	05-15-01	645	51	52	63	.48	1190	1.2	28.0	1860	4760

LOCAL IDENT-I-FIER	DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
MALPAIS SPRING	05-15-01	4610	.051	E.05	.09	3.07	<.006	E.003	.241	.004	E31

LOCAL IDENT-I-FIER	DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BORON, DIS-SOLVED (UG/L AS B) (01020)	BORON, TOTAL RECOV-ERABLE (UG/L AS B) (01022)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)
MALPAIS SPRING	05-15-01	<84	<6.0	E2	11.8	12.2	225	247	<.30	<.30	<8.0

OTERO COUNTY--Continued

LOCAL IDENTIFIER	DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COPPER, DISSOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	IRON, DISSOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI) (01132)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
MALPAIS SPRING	05-15-01	3	E2.3	E3.0	<30	<40	<2.00	<2	45.5	44.1	<10.0

LOCAL IDENTIFIER	DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DISSOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR) (01082)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
MALPAIS SPRING	05-15-01	<8	<.02	<.02	E5.5	5.7	<.3	<.90	11900	10900	<60

LOCAL IDENTIFIER	DATE	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
MALPAIS SPRING	05-15-01	<93

TORRANCE COUNTY

LOCAL IDENTIFIER	STATION NUMBER	COUNTY	STATION TYPE	DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)
ABO SPRING	342652106223701	057	SP	11-28-00	1600	--	--	--	7.4	759
				02-27-01	1500	608	3.3	39	7.1	769
				05-02-01	1830	603	3.5	41	7.2	785
				07-01-01	1730	605	4.2	52	7.3	784
QUARI SPRING NUMBER 2	343543106174501	057	SP	11-28-00	1400	--	--	--	7.0	642
				02-28-01	1330	--	--	--	7.2	650
				05-03-01	1500	595	.8	9	7.1	681
				07-02-01	1200	606	.2	3	7.2	590
QUARRI SPRING NUMBER 1	343547106174401	057	SP	11-28-00	1200	--	--	--	7.3	500
				02-28-01	1200	--	--	--	7.5	509
				05-03-01	1330	592	3.0	35	7.2	551
				07-02-01	1030	606	1.7	20	7.4	530

LOCAL IDENTIFIER	DATE	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)
ABO SPRING	11-28-00	9.0	13.5	308	376	70.6	<.041	.735	.038
	02-27-01	6.0	12.0	304	371	76.9	<.041	.850	.032
	05-02-01	21.0	12.0	306	373	78.9	<.041	.828	.025
	07-01-01	33.0	14.0	300	366	73.4	<.040	.654	E.010
QUARI SPRING	11-28-00	15.0	10.0	282	346	34.2	<.041	<.047	.085
	02-28-01	-1.0	8.0	286	349	38.8	<.041	<.047	.099
	05-03-01	17.0	11.0	290	354	35.1	<.041	<.047	.088
	07-02-01	26.0	15.0	258	314	25.4	.041	E.031	E.017
QUARRI SPRING	11-28-00	11.5	10.0	214	261	26.5	<.041	.405	.070
	02-28-01	-1.0	7.0	216	264	28.3	<.041	.485	.054
	05-03-01	22.0	10.5	218	266	30.8	<.041	.406	.054
	07-02-01	24.5	13.0	208	254	28.6	<.040	.456	.035

Remark codes used in this report:
< -- Less than
E -- Estimated value

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