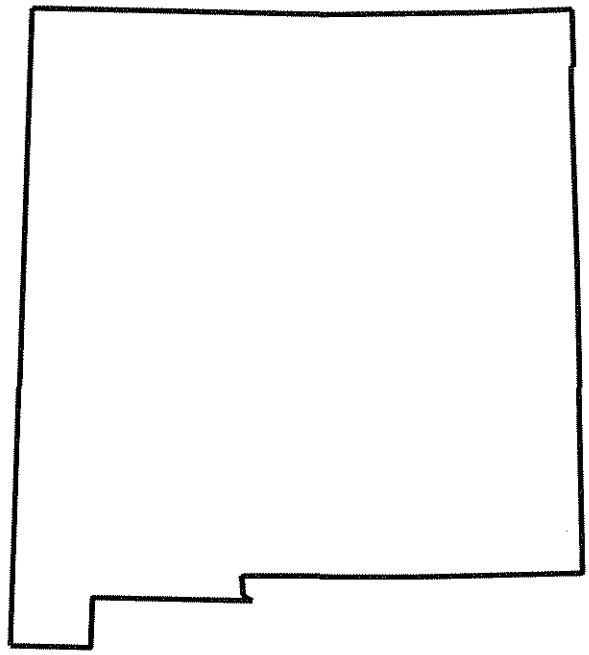
U.S. Department of the Interior
U.S. Geological Survey

Water Resources Data New Mexico Water Year 2000

By David Ortiz, Kathy Lange, and Linda Beal

Water-Data Report NM-00-1



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

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 2000 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 185 gaging stations; stage and contents for 26 lakes and reservoirs; water quality for 34 gaging stations, 56 wells, and 41 partial-record stations and miscellaneous sites; and water levels at 136 observation wells. Also included are 79 crest-stage, partial-record stations. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous measurements. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating Federal, State, and local agencies in New Mexico.

14. SUBJECT TERMS
*New Mexico, *Hydrologic data, *Surface water, *Water quality, Lakes, Reservoirs, Sediments, Water levels, Flow rates, Gaging stations, Chemical analyses, Water analyses, Water temperature, Sampling sites

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

[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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LOWER MISSISSIPPI RIVER BASIN		
MISSISSIPPI RIVER:		
ARKANSAS RIVER BASIN		
ARKANSAS RIVER:		
CANADIAN RIVER:		
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EAGLE TAIL DITCH NEAR MAXWELL, NM (d)	07202500	40
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CIMARRON RIVER NEAR CIMARRON, NM (d)	07207000	47
PONIL CREEK NEAR CIMARRON, NM (d)	07207500	48
RAYADO CREEK NEAR CIMARRON, NM (d)	07208500	49
CIMARRON RIVER AT SPRINGER, NM (d)	07211000	50
CANADIAN RIVER NEAR TAYLOR SPRINGS, NM (d)	07211500	51
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RIO LUCERO NEAR ARROYO SECO, NM (d)	08271000	80
RIO GRANDE DEL RANCHO NEAR TALPA, NM (d)	08275500	81
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RIO GRANDE BELOW TAOS JUNCTION BRIDGE, NEAR TAOS, NM (c,d,m)	08276500	83
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COLORADO RIVER:		
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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, 1984-92
Canadian River below Conchas Dam, NM	07224500	7,417	1936-38, 1942-72
Conchas River at Verjadero, NM	07225000	523	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 Tesque, 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 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 Vill Del Oso at Albuquerque, NM	08329860	0.052	1976-98
Grant Line Arroyo at Albuquerque, NM	08329865	0.052	1987-91
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
Tijeras Arroyo below South Diversion Channel Inlet near Albuquerque, NM	08330800	--	1974-88

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

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

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

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

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
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
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
Rio Penasco at Elk, NM	08397450	--	1910-11
Rio Penasco near Elk, NM	08397500	--	1911
Rio Penasco near Dunken, NM	08397600*	583	1956-62

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
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			
Three Rivers near Three Rivers, NM	08480600	6.9	1956-58
Indian Creek near Three Rivers, NM	08480700*	6.8	1956-58
Indian Creek flume near Three Rivers, NM	08480800	--	1956-58
Indian Creek at Mouth, near Three Rivers, NM	08480900	10.9	1956-58
Rio Tularosa at Mescalero, NM	08481300	--	1910-11
Tularosa Creek near Bent, NM	08481500	120	1947-96
Rio Tularosa near Tularosa, NM	08482000	--	1938-47

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Period of record
TULAROSA VALLEY BASIN--Continued			
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
Chaco Wash at Chaco Culture National Monument, NM	09367800*	578	1976-90
Gallo Wash at Chaco National Monument, NM	09367682	36.2	1978-81

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Period of record
SAN JUAN BASIN--Continued			
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 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 158 gaging stations and contents for 26 lakes and reservoirs; water quality for 34 gaging stations, 23 wells, and 41 partial-record stations and miscellaneous sites, and water levels at 122 observation wells. Also included are 79 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. Four seepage investigations were made during the year. These data represent that part of the National Water Data System collected by the U.S Geological Survey and cooperating Federal, State, and local agencies in New Mexico.

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

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports for each State. Water-quality records for water years 1964 through 1974 were similarly released in separate reports. Beginning with water year 1975, data for streamflow, water quality, and groundwater were combined in reports published annually for each State. These reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report NM-98-1." 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

Rio San Jose Flood Control District

City of Santa Rosa

City of Raton

Village of Ruidoso

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 Corps of Engineers, U.S. Army, for 31 gaging stations; by the Bureau of Reclamation, U.S. Department of Interior, for 23 gaging stations; by the Bureau of Indian Affairs, U.S. Department of Interior, for 6 gaging stations; and by the Bureau of Land Management, U.S. Department of Interior, for 1 gaging station.

Assistance in the form of services was provided by the Carlsbad Irrigation District. Some data have been collected by contractors in accordance with U.S. Geological Survey specifications and under Geological Survey quality control. Organizations that provided data are recognized in the station description.

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 below normal throughout the State at the beginning of water year 2000. This trend continued through the end of calendar year 2000 and did not end until March when precipitation totals increased to above normal amounts.

For example, precipitation for March was 235 percent of normal in Albuquerque, 283 percent of normal in Raton, and 209 percent of normal in Deming. Reflecting State precipitation trends, snowpack at the end of January was well below normal. Specifically, snowpack water content was 42 percent of normal in the Rio Grande Basin and 32 percent of normal in the San Juan Basin. Snowpack did increase as a result of a late March storm. Snowfall totals exceeded 20 inches in the Sangre de Cristo Mountains and in the Gila River Basin.

Precipitation decreased from near normal amounts in April to below normal amounts in May. Precipitation was 14 percent of normal in Albuquerque and 16 percent of normal in Raton in the month of May. Below normal conditions continued through the end of the 2000 water year. Precipitation increased dramatically in October to begin the 2001 water year.

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. With this in mind, a review of water storage during water year 2000 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 hydrologic conditions during water year 2000. For example, In El Vado, Navajo, and Eagle Nest Reservoirs, the quantity of water stored from October through March represented the lack of precipitation in the State. Reflecting increased precipitation in April and May the storage in these reservoirs also increased. As subsequent precipitation in the State decreased reservoir storage decreased through the end of water year 2000. In similar fashion, water storage in Heron, Abiquiu, Conchas, and Ute Reservoirs displayed a decrease between the beginning and end of water year 2000. Storage in Elephant Butte-Caballo increased and decreased at various times during water year 2000 in response to water demands.

Reservoir storage in most of the State's reservoirs at the end of water year 2000 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 1,280,000 acre-feet during water year 2000, totaling 3,481,000 acre-feet by September 30, 2000. The combined capacity of these 13 reservoirs is 8,530,000 acre-feet.

Streamflow in New Mexico has been normal or above normal since 1979. This trend continued into the beginning of water year 2000. Streamflows recorded at index gaging stations were generally above normal. However, reflecting precipitation trends, the streamflows generally decreased to well below normal by the end of the water year.

For example, streamflow at Rio Grande below Taos Junction Bridge (station 08276500) was 405 percent of normal in October decreased to 18 percent of normal in June and ended the water year at 61 percent of normal. Streamflow at Gila River near Gila (station 09430500) was 153 percent of normal in October decreasing to 27 percent of normal in September. In contrast to the trends demonstrated at the Rio Grande and Gila River sites, streamflow at Delaware River near Red Bluff (station 08408500) was well below normal the entire year.

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 the activities of man.

Discharges for water year 2000 at four index streamflow-gaging stations compared to median annual discharge for water years 1970-99 at the same stations are listed below:

Station number	Station name	Median annual discharge in acre-ft water years 1970-99	Annual mean discharge in acre-ft water year 2000	2000 discharge as a percentage of median
08276500	Rio Grande below Taos Junction Bridge	582,000	317,900	55
08378500	Pecos River near Pecos	76,580	34,030	44
08408500	Delaware River near Red Bluff	3,876	959	25
09430500	Gila River near Gila	132,900	36,740	28

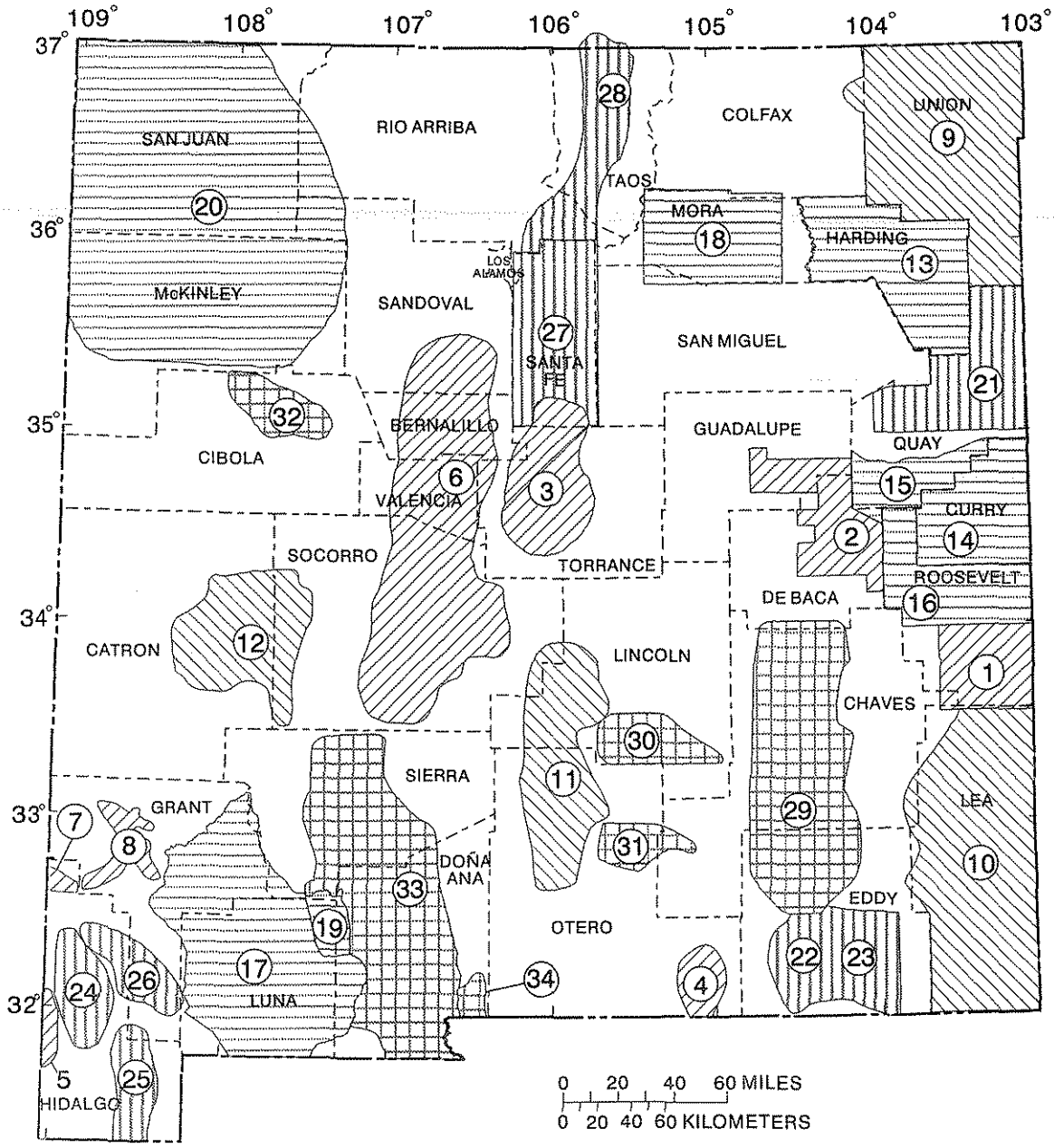


Figure 1.--Areas of 5-year ground-water-level monitoring and years measured or scheduled for measurement.

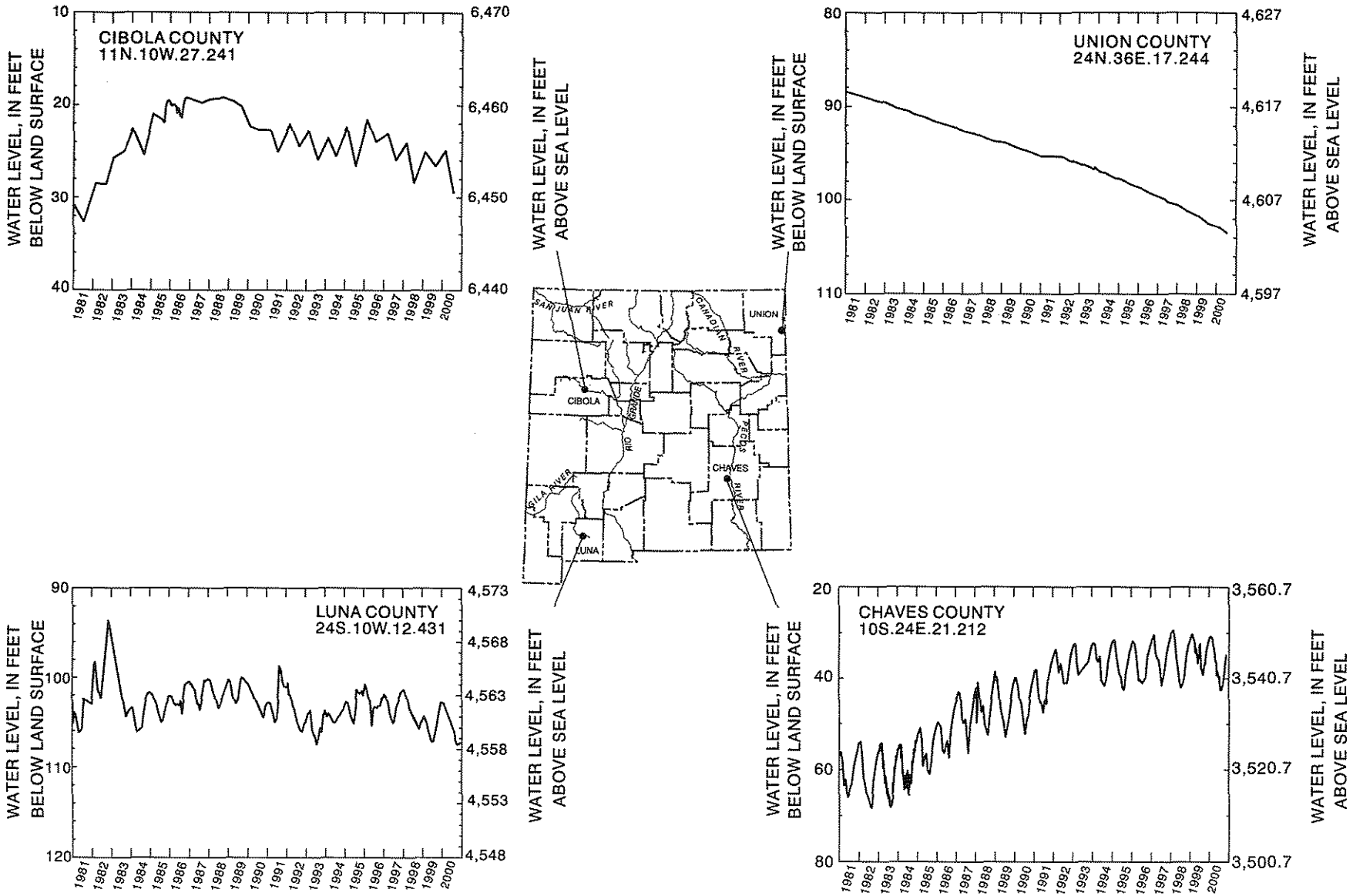


Figure 2.--Ground-water-level trends for the last 20 years or period of record.

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 Program (NAWQA); (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.nrel.colostate.edu/NADP

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 2000, which began October 1, 1999 and ended September 30, 2000. 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, in this report 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, 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 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 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 are 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

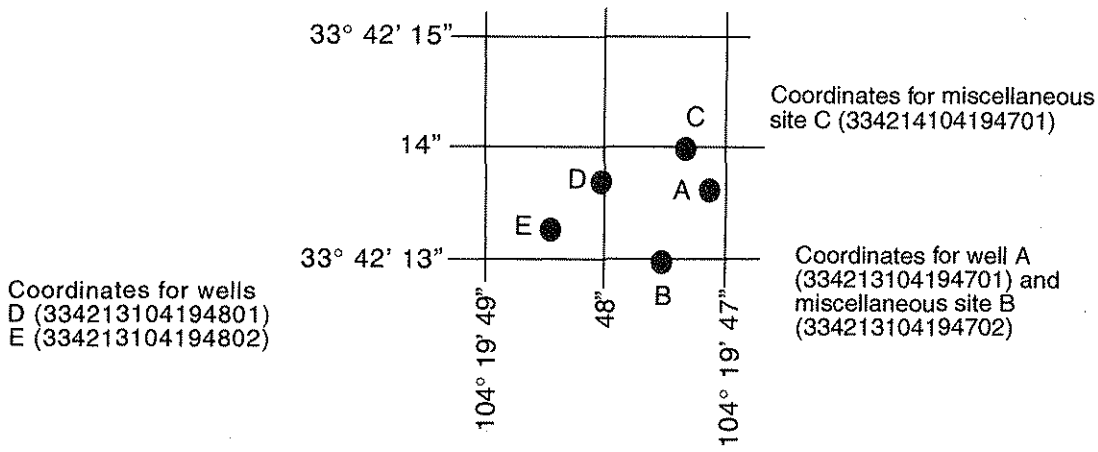


Figure 3.--System for assigning latitude-longitude numbers to wells, springs, and miscellaneous sites.

digits in a tract number will locate a well or spring to the nearest 10-acre tract, and six digits will locate a site to the nearest 0.16-acre tract. This numbering system is illustrated in 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. Location of all complete-record stations and partial-record station 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 platform 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.

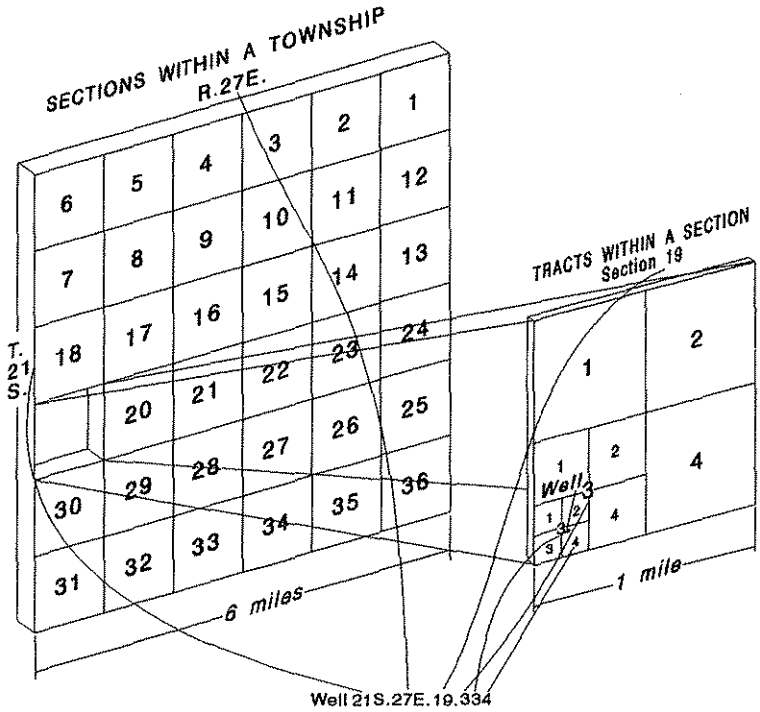


Figure 4.--New Mexico well-numbering system.

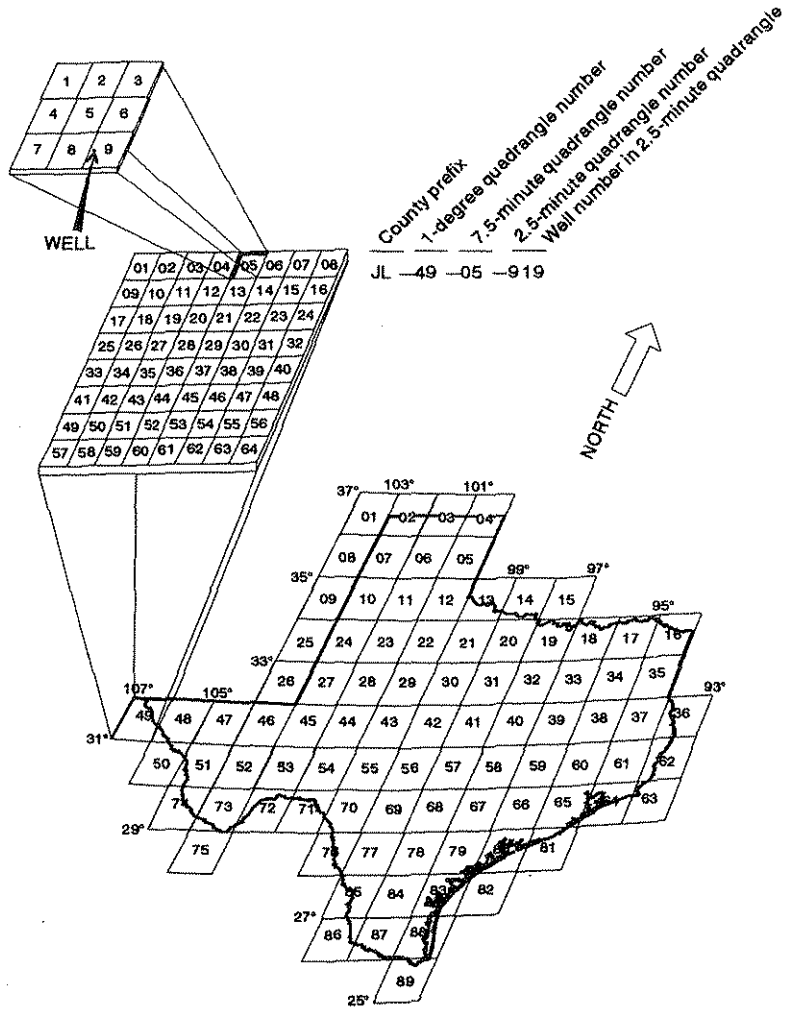


Figure 5.--Texas well-numbering system.

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 laps 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 five 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; 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 to follow clarify information presented under the various headings of the station description.

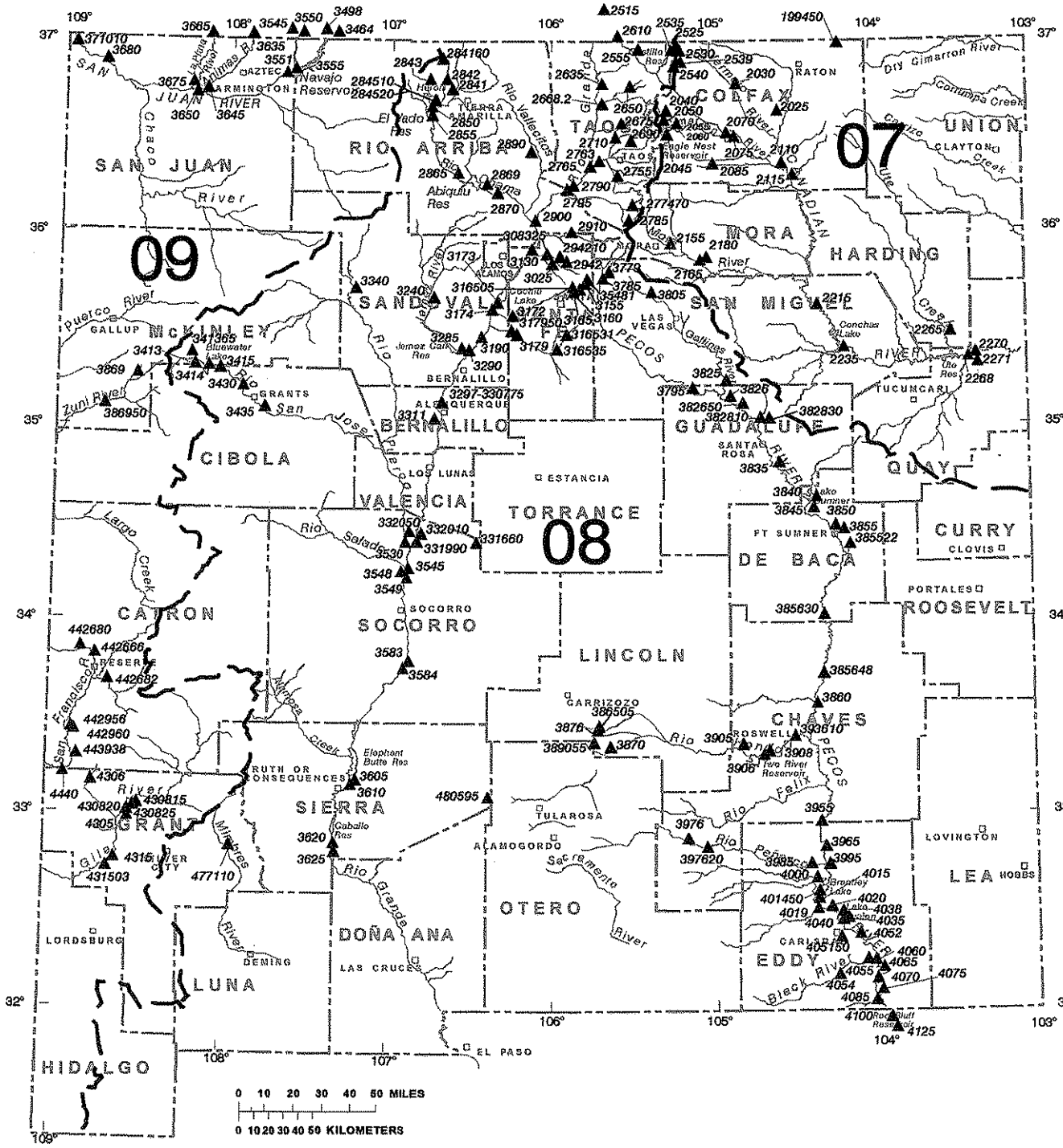
LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages were determined by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



U.S. Geological Survey base

EXPLANATION

07 LOWER MISSISSIPPI RIVER BASIN NUMBER

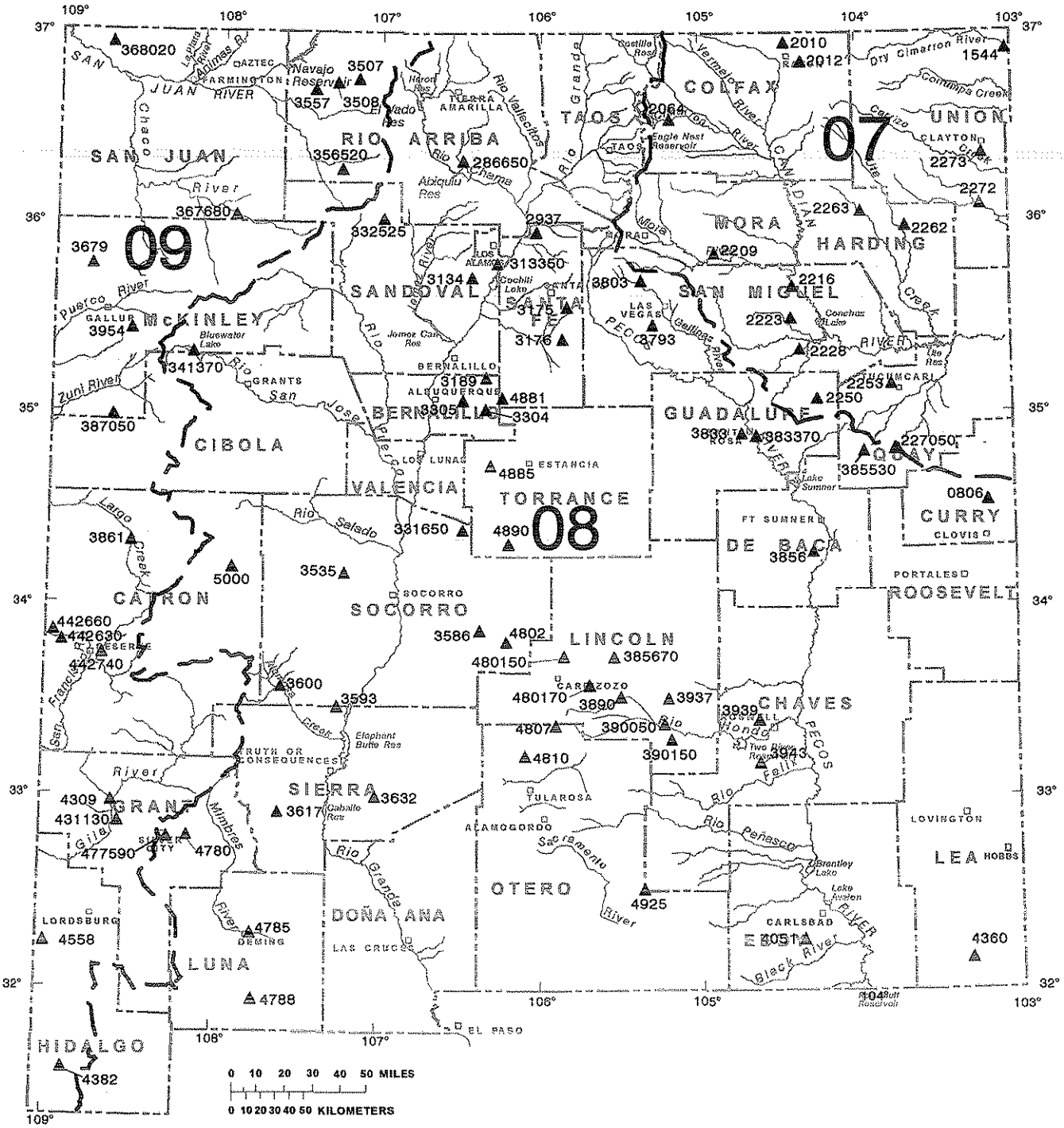
08 WESTERN GULF OF MEXICO BASIN NUMBER

09 COLORADO RIVER BASIN NUMBER

— — RIVER BASIN BOUNDARY

401460▲ 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 of 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 22092, 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.

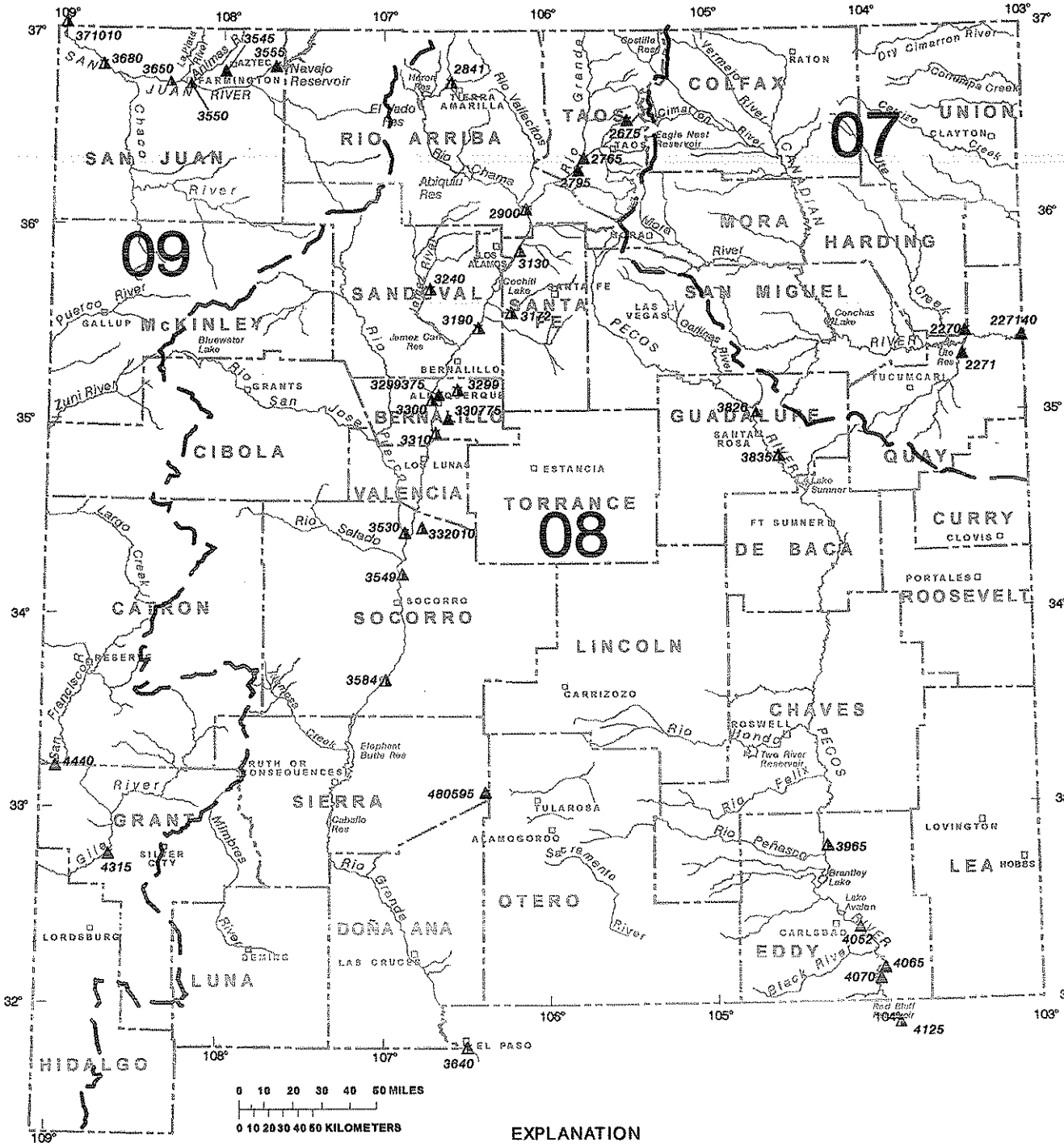
Records of Surface-Water Quality

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. Location of surface-water-quality 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 conductance, may be obtained through continuous



U.S. Geological Survey base

EXPLANATION

BASIN AND STATION NUMBER

07 LOWER MISSISSIPPI RIVER BASIN NUMBER

08 WESTERN GULF OF MEXICO BASIN NUMBER

09 COLORADO RIVER BASIN NUMBER

RIVER BASIN BOUNDARY

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

Basin number + station number

STATION AND SAMPLING FREQUENCY

CHEMICAL QUALITY:	Daily	Other than daily
SUSPENDED SEDIMENT:	Daily	Other than daily
CHEMICAL QUALITY AND SUSPENDED SEDIMENT:	Both daily	Both other than daily
	Daily chemical quality and other than daily suspended sediment	Daily suspended sediment and other than daily chemical quality

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

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 onsite 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 Investigations," (TWRI) Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. 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 which 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 the 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 analysed 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; 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 present 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 the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuing record station. Comments that follow clarify

[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.

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

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 collect 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. Split sample - 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: 303-491-5643).

Records of Ground-Water Levels

Only selected water-level data from 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 to 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 comment to follow clarify information presented under the various headings.

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

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

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

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

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

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

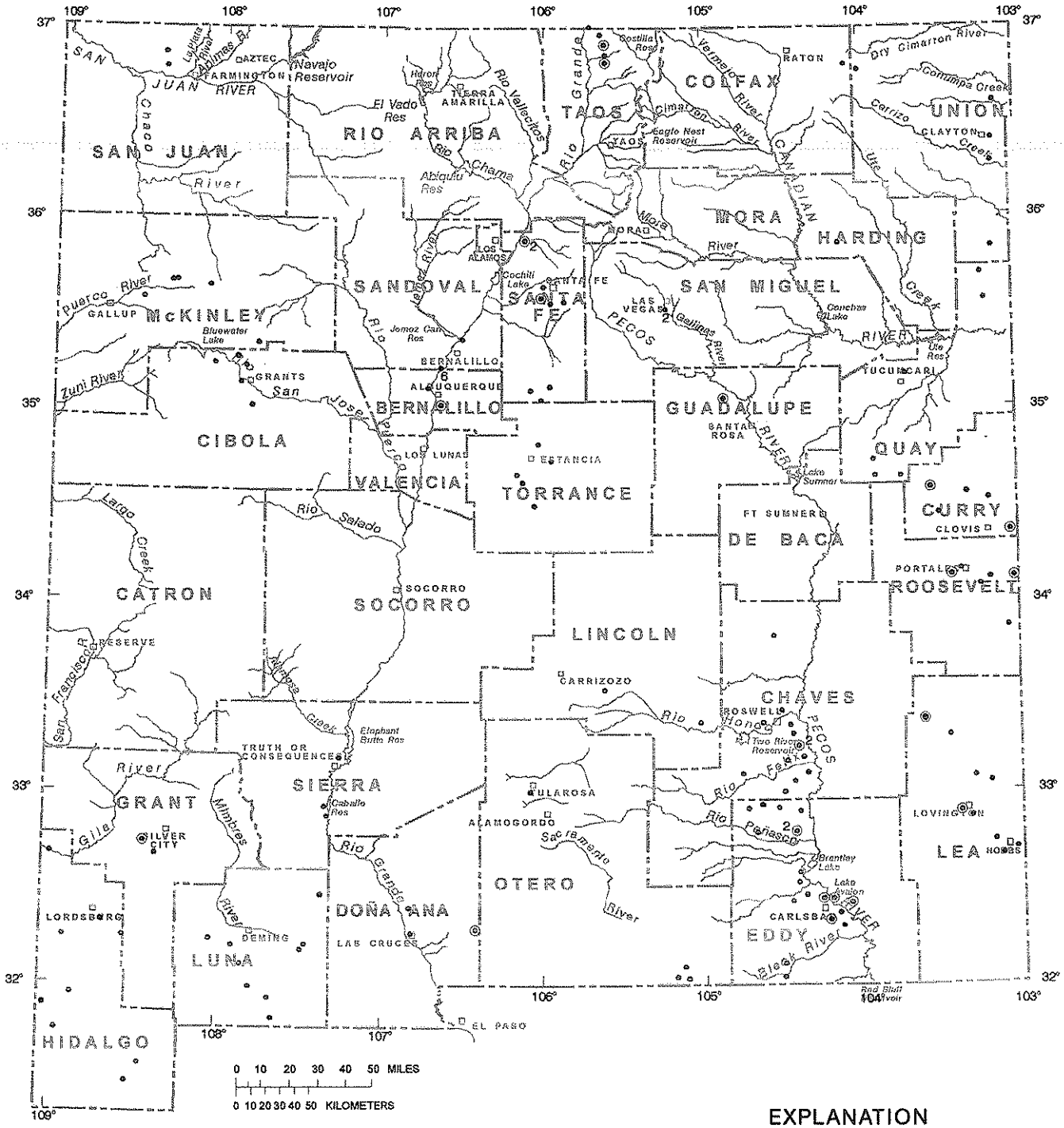
PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U. S. Geological Survey and the words "to current year" if the records are to be continued into the following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

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

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum and all taped measurements of water level are listed. For wells equipped with recorders. Only abbreviated tables are published; generally, only water-level lows are listed for every fifth day and 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 maybe 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



U.S. Geological Survey base

EXPLANATION

OBSERVATION WELL--
Number indicates closely spaced wells

2◉ Recording

• Nonrecording

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 are 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 U.S.G.S. publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, section A of book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S.G.S., 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 (monthend contents only), October 1987 to current year.

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

REMARKS.--Reservoir is formed by an earthfill dam, completed in 1907; capacity, 59 acre-ft. Reservoir enlarged in 1916; capacity, 1,130 acre-ft, spillway elevation, 7,479.0 ft. Reservoir enlarged again in 1948; capacity, 3,690 acre-ft, spillway elevation, 7,511.0 ft. Elevation of lowest outlet, 7,439.0 ft. No dead storage. Water is for municipal use of City of Raton. See table below for total monthly diversion, in acre-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, 3,750 acre-ft, Apr. 6,7, elevation, 7,511.51 ft; minimum contents, 3,200 acre-ft, Sept. 22-30, elevation 7,506.82 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3510	3590	3660	3700	3710	3700	3720	3710	3640	3500	3300	3270
2	3510	3590	3670	3700	3710	3700	3720	3720	3640	3500	3300	3260
3	3510	3600	3670	3700	3710	3700	3720	3720	3630	3500	3300	3260
4	3510	3600	3670	3700	3700	3700	3730	3720	3630	3490	3290	3260
5	3510	3600	3670	3700	3700	3700	3740	3720	3630	3490	3290	3250
6	3510	3600	3670	3700	3700	3700	3750	3710	3630	3480	3290	3250
7	3520	3600	3670	3700	3700	3700	3750	3700	3620	3470	e3290	3250
8	3520	3600	3670	3700	3700	3700	3740	3700	3620	3470	e3290	3250
9	3530	3610	3670	3700	3700	3700	3740	3700	3610	3460	e3280	3250
10	3530	3600	3670	3700	3700	3700	3740	3700	3600	e3460	e3280	3240
11	3530	3600	3670	3700	3700	3700	3740	3700	3600	3440	3280	3250
12	3530	3600	3670	3700	3700	3700	3740	3700	3590	3440	3270	3240
13	3530	3610	3680	3700	3700	3700	3740	3700	3590	3430	3280	3240
14	3530	3610	3680	3700	3700	3710	3740	3700	3580	3430	3280	3230
15	3540	3610	3680	3700	3700	3710	3730	3690	3570	3420	3280	3220
16	3540	3620	3680	3700	3700	3710	3730	3680	3550	3410	3270	3220
17	3540	3620	3680	3700	3700	3710	3730	3680	3550	3420	3280	3210
18	3550	3620	3680	3700	3700	3710	3720	3680	3550	3410	3290	3210
19	3550	3630	3680	3700	3700	3710	3720	3680	3550	3410	3290	3210
20	3550	3630	3680	3700	3700	3710	3710	3680	3540	3410	3290	3210
21	3560	3630	3680	3700	3700	3710	3710	3690	3530	3400	3290	3210
22	3560	3640	3690	3700	3700	3710	3710	3690	3520	3400	3290	3200
23	3560	3640	3690	3700	3700	3720	3710	3680	3510	3390	3290	3200
24	3570	3640	3690	3700	3700	3720	3710	3680	3500	3380	3290	3200
25	3570	3650	3690	3700	3700	3720	3710	3680	3500	3400	3290	3200
26	3570	3650	3690	3700	3700	3730	3710	3670	3490	3360	3290	3200
27	3570	3650	3690	3700	3700	3730	3710	3670	3500	3330	3290	3200
28	3580	3660	3690	3700	3700	3730	3710	3670	3490	3340	3290	3200
29	3580	3660	3690	3700	3700	3730	3700	3660	3490	3330	3280	3200
30	3580	3660	3690	3710	---	3740	3700	3650	3490	3320	3280	3200
31	3590	---	3690	3710	---	3730	---	3650	---	3310	3270	---
MAX	3590	3660	3690	3710	3710	3740	3750	3720	3640	3500	3300	3270
MIN	3510	3590	3660	3700	3700	3700	3700	3650	3490	3310	3270	3200
(+)	7510.15	7510.77	7511.04	7511.13	7511.11	7511.31	7511.12	7510.65	7509.36	7507.85	7507.46	7506.82
(++)	+80	+70	+30	+20	-10	+30	-30	-50	-160	-180	-40	-70
(+++)	17	24	0	0	0	0	152	252	244	215	91	24
(++++)	0	0	0	0	0	0	0	0	0	0	0	0

CAL YR 1999 MAX 3820 MIN 3240 (++) +430 (+++) 951 (++++) 0
WTR YR 2000 MAX 3750 MIN 3200 (++) -310 (+++) 1019 (++++) 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 good except for estimated daily discharges, which are poor. Eagle Tail ditch diverts water from Chicorica Creek for use near Maxwell. No diversions upstream from station. No flow at times most years.

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	3.4	e1.3	e1.8	e2.3	e.00	.00	.00	.00	.43	7.8	.00	.00
2	3.0	e1.3	e1.6	e2.3	e.00	.00	.00	.00	.28	4.8	.00	.00
3	3.1	e1.2	1.6	e2.3	.00	.00	.00	.00	.23	4.3	.00	.00
4	2.8	e1.2	1.5	e2.3	.00	.00	.00	.00	.25	5.0	.00	.00
5	2.8	e1.2	1.3	e2.3	.00	.00	.00	.00	.40	2.2	.00	.00
6	2.7	e1.2	1.4	e2.5	.00	.00	.00	.00	.33	1.2	.00	.00
7	2.4	e1.2	e1.8	e2.5	.00	.00	.00	.00	.30	.81	.00	.00
8	1.6	e1.2	e1.6	e2.6	.00	.00	.16	.00	.30	.61	.00	.00
9	1.8	e1.2	e1.6	e2.6	.00	.00	.01	.00	.25	1.1	.00	.00
10	2.0	1.1	e1.6	e2.6	.00	.00	.00	.00	.23	.70	.00	.00
11	1.8	1.1	e1.8	e2.7	.00	.00	.00	.00	.19	15	.00	.00
12	1.5	1.1	e1.8	e2.6	.00	.00	.00	.75	.11	.39	.00	.00
13	1.4	1.1	e1.8	e2.4	.00	.00	.00	.53	.08	.04	.00	.00
14	1.4	1.2	e1.8	e2.4	.00	.00	.00	.44	.29	.00	.00	.00
15	1.3	1.4	e2.0	e2.3	.00	.00	.00	.93	.33	.00	.00	.00
16	1.2	1.6	e2.0	e2.4	.00	.00	.00	1.1	.21	.00	.00	.00
17	1.2	1.8	e2.0	e2.3	.00	.00	.00	1.0	.12	.00	.00	.00
18	e1.4	1.6	e2.0	e2.3	.00	.00	.00	.47	.05	6.4	8.6	.00
19	e1.4	1.3	e2.0	e2.4	.00	.00	.00	.32	.08	1.7	9.0	.00
20	e1.4	1.1	e2.1	e2.4	.00	.00	.00	.28	.08	.60	6.3	.00
21	e1.4	1.1	e2.1	e2.2	.00	.00	.00	.31	.07	1.6	4.6	.00
22	e1.4	1.1	e2.1	e1.7	.00	.00	.00	.33	.03	1.1	4.1	.00
23	e1.4	1.1	e2.1	e1.5	.00	.00	.00	.39	.00	.42	1.0	.00
24	e1.4	1.8	e2.1	e1.5	.00	.00	.00	.43	.00	.27	.33	.00
25	e1.3	2.3	e2.1	e1.5	.00	.00	.00	.42	.00	.17	.09	.00
26	e1.3	2.3	e2.2	e1.4	.00	.00	.00	.38	.00	.06	.00	.00
27	e1.3	2.5	e2.2	e1.0	.00	.00	.00	.98	10	.00	.00	.00
28	e1.3	2.3	e2.2	e.22	.00	.00	.00	1.0	58	.00	.00	.00
29	e1.3	2.1	e2.2	e.01	.00	.00	.00	.84	26	.00	.00	.00
30	e1.3	2.1	e2.2	e.00	---	.00	.00	.67	13	.00	.00	.00
31	e1.3	---	e2.2	e.00	---	.00	---	.55	---	.00	.00	---
TOTAL	54.3	44.1	58.8	59.53	0.00	0.00	0.17	12.12	111.64	56.27	34.02	0.00
MEAN	1.75	1.47	1.90	1.92	.000	.000	.006	.39	3.72	1.82	1.10	.000
MAX	3.4	2.5	2.2	2.7	.00	.00	.16	1.1	58	15	9.0	.00
MIN	1.2	1.1	1.3	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	108	87	117	118	.00	.00	.3	24	221	112	67	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2000, BY WATER YEAR (WY)

MEAN	2.07	2.49	2.30	2.36	2.93	5.58	11.6	20.6	10.4	6.18	9.58	4.16
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1945 - 2000	
ANNUAL TOTAL	2141.86		430.95			
ANNUAL MEAN	5.87		1.18		7.00	
HIGHEST ANNUAL MEAN					17.8	1984
LOWEST ANNUAL MEAN					1.18	2000
HIGHEST DAILY MEAN	151	May 1	58	Jun 28	[a]217	Aug 27 1946
LOWEST DAILY MEAN	.00	May 9	.00	Jan 30	.00	May 16 1945
ANNUAL SEVEN-DAY MINIMUM	.00	May 9	.00	Jan 30	.00	May 16 1945
INSTANTANEOUS PEAK FLOW			144	Jun 28	375	May 30 1995
INSTANTANEOUS PEAK STAGE			3.49	Jun 28	5.15	May 30 1995
ANNUAL RUNOFF (AC-FT)	4250		855		5070	
10 PERCENT EXCEEDS	13		2.3		16	
50 PERCENT EXCEEDS	1.4		.20		1.6	
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 1921, January 1927 to current year. Monthly discharge only for some periods, published in WSP 1311.

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

GAGE.--Water-stage recorder 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 estimated daily discharges, which are poor. Diversions for irrigation of small acreage and mountain meadows upstream from station. Several observations of water temperature were made during year.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	19	16	e19	e14	11	21	33	11	22	5.4	5.6
2	29	18	16	e18	e15	14	21	30	11	23	4.2	4.9
3	28	18	15	e16	e16	13	20	28	10	19	3.7	4.6
4	27	18	e13	e15	e16	12	20	27	10	14	4.2	4.5
5	25	17	e11	e14	e16	11	22	28	9.2	10	4.2	4.6
6	25	17	e13	e16	e15	11	25	29	10	9.1	4.2	4.1
7	24	17	e16	e17	e15	14	26	29	9.5	12	4.7	3.5
8	27	17	e16	e20	e15	15	27	28	8.2	11	4.1	2.9
9	24	16	e16	e24	15	12	27	31	7.7	11	3.8	3.5
10	23	e15	e15	e24	14	12	26	29	7.7	8.7	3.4	3.2
11	21	e15	e14	e16	14	13	32	25	7.2	8.7	5.0	3.0
12	20	e15	e14	e16	12	12	28	25	7.0	13	7.3	2.3
13	19	e15	e14	e18	11	11	25	23	7.0	10	8.0	1.6
14	18	e15	e15	e18	12	11	26	21	6.5	22	8.3	1.3
15	18	e15	e16	15	12	11	28	21	6.0	18	8.5	1.2
16	18	e16	e18	23	e13	13	29	20	5.5	20	8.1	1.3
17	22	e15	e15	20	e11	12	25	19	6.2	111	11	1.5
18	22	e15	e15	19	e15	12	25	19	7.2	54	13	1.5
19	27	e16	e14	18	e16	14	26	19	9.0	20	17	1.6
20	27	e14	e12	21	e14	12	26	21	8.6	16	12	1.5
21	26	e14	e10	e18	13	12	25	20	6.1	14	9.8	1.6
22	24	e14	e15	15	12	14	26	18	5.6	12	8.7	1.8
23	22	e15	e18	e18	12	18	26	16	5.7	12	11	2.0
24	22	e14	e21	e15	11	21	26	16	6.7	11	13	2.0
25	21	e15	e22	15	11	18	25	17	6.6	8.9	9.4	2.2
26	20	16	e23	14	13	18	24	17	6.5	6.0	8.4	2.3
27	20	17	e20	14	12	17	24	16	17	5.2	7.9	2.3
28	19	17	e18	e12	13	17	27	16	24	6.0	7.6	2.4
29	20	16	e20	e10	11	17	29	16	17	6.2	6.6	2.4
30	19	15	e22	e9.0	---	17	32	15	15	6.5	6.4	2.6
31	19	---	e20	e8.0	---	23	---	12	---	6.6	6.4	---
TOTAL	705	476	503	515.0	389	438	769	684	274.7	526.9	235.3	79.8
MEAN	22.7	15.9	16.2	16.6	13.4	14.1	25.6	22.1	9.16	17.0	7.59	2.66
MAX	29	19	23	24	16	23	32	33	24	111	17	5.6
MIN	18	14	10	8.0	11	11	20	12	5.5	5.2	3.4	1.2
AC-FT	1400	944	998	1020	772	869	1530	1360	545	1050	467	158

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2000, BY WATER YEAR (WY)

MEAN	9.04	7.04	5.88	5.66	6.44	6.82	21.6	52.8	36.4	29.9	41.6	17.3
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1916 - 2000	
ANNUAL TOTAL	26982.1		5595.7			
ANNUAL MEAN	73.9		15.3		19.7	
HIGHEST ANNUAL MEAN					89.0	1942
LOWEST ANNUAL MEAN					2.05	1951
HIGHEST DAILY MEAN	1040	Aug 5	111	Jul 17	2340	Apr 23 1942
LOWEST DAILY MEAN	4.4	Mar 31	1.2	Sep 15	.00	Nov 21 1931
ANNUAL SEVEN-DAY MINIMUM	4.9	Mar 26	1.4	Sep 14	.00	Nov 21 1931
INSTANTANEOUS PEAK FLOW			1060	Jul 17	[b]12600	Jun 17 1965
INSTANTANEOUS PEAK STAGE			5.45	Jul 17	15.25	Jun 17 1965
INSTANTANEOUS LOW FLOW			[a]1.1	Sep 14		
ANNUAL RUNOFF (AC-FT)	53520		11100		14270	
10 PERCENT EXCEEDS	207		26		46	
50 PERCENT EXCEEDS	24		15		8.0	
90 PERCENT EXCEEDS	6.4		4.7		1.8	

e Estimated
a Also Sept.15 and 16.
b 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 good. 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, 9.0 ft^3/s, at 2030 hours, Apr. 30, gage height, 1.83 ft; minimum daily discharge, 0.06 ft^3/s, Aug. 3, 9 and 10.

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	.93	---	---	---	---	---	---	5.9	1.2	.32	.08	.20
2	.92	---	---	---	---	---	---	4.8	1.3	.24	.07	.14
3	.90	---	---	---	---	---	---	4.4	1.9	.22	.06	.12
4	.86	---	---	---	---	---	---	4.3	1.6	.17	.07	.11
5	---	---	---	---	---	---	---	4.0	1.3	.10	.07	.10
6	---	---	---	---	---	---	---	3.6	1.1	.11	.09	.09
7	---	---	---	---	---	---	---	3.0	1.1	.17	.15	.09
8	---	---	---	---	---	---	---	2.6	1.0	.25	.09	.10
9	---	---	---	---	---	---	---	3.1	1.1	.19	.06	.11
10	---	---	---	---	---	---	---	2.3	1.3	.21	.06	.09
11	---	---	---	---	---	---	---	1.9	1.0	.28	.21	.08
12	---	---	---	---	---	---	---	1.7	.88	.29	.37	.08
13	---	---	---	---	---	---	5.3	1.7	.71	.49	.34	.08
14	---	---	---	---	---	---	5.1	1.4	.55	.51	.21	.08
15	---	---	---	---	---	---	5.1	1.9	.43	.31	.19	.08
16	---	---	---	---	---	---	4.8	2.5	.39	.44	.24	.09
17	---	---	---	---	---	---	4.4	2.2	.37	.61	.18	.09
18	---	---	---	---	---	---	4.3	2.1	.37	.57	.57	.09
19	---	---	---	---	---	---	4.4	2.0	.47	.55	1.1	.08
20	---	---	---	---	---	---	3.9	2.2	.41	.32	1.1	.09
21	---	---	---	---	---	---	3.9	2.0	.35	.27	.54	.10
22	---	---	---	---	---	---	3.8	1.9	.30	.22	.46	.09
23	---	---	---	---	---	---	3.9	1.8	.29	.17	.43	.07
24	---	---	---	---	---	---	4.7	1.7	.28	.15	.57	.07
25	---	---	---	---	---	---	5.2	1.7	.30	.16	.42	.08
26	---	---	---	---	---	---	5.6	1.5	.29	.19	.34	.08
27	---	---	---	---	---	---	5.4	1.4	.34	.19	.35	.08
28	---	---	---	---	---	---	5.5	1.3	.47	.18	.29	.08
29	---	---	---	---	---	---	5.7	1.2	.51	.17	.29	.08
30	---	---	---	---	---	---	6.9	1.1	.43	.13	.33	.07
31	---	---	---	---	---	---	---	1.2	---	.11	.26	---
TOTAL	---	---	---	---	---	---	---	74.4	22.04	8.29	9.59	2.79
MEAN	---	---	---	---	---	---	---	2.40	.73	.27	.31	.093
MAX	---	---	---	---	---	---	---	5.9	1.9	.61	1.1	.20
MIN	---	---	---	---	---	---	---	1.1	.28	.10	.06	.07
AC-FT	---	---	---	---	---	---	---	148	44	16	19	5.5

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 except for estimated daily discharges, which are poor. Diversions for irrigation of about 1,000 acres upstream from station. One observation of water temperature was 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, 54 ft^3/s, at 0200 hours, Apr. 15, gage height, 3.80 ft; minimum daily discharge 0.81 ft^3/s, July 22.

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	3.0	---	---	---	---	---	---	29	3.2	1.1	1.2	2.0
2	2.9	---	---	---	---	---	---	28	5.0	1.0	.98	1.8
3	2.9	---	---	---	---	---	---	22	3.8	1.0	.93	e1.7
4	2.9	---	---	---	---	---	---	19	2.8	.99	1.7	1.8
5	---	---	---	---	---	---	---	17	2.5	.95	1.8	2.2
6	---	---	---	---	---	---	---	15	3.1	1.2	1.7	1.8
7	---	---	---	---	---	---	---	14	3.5	2.1	1.5	1.6
8	---	---	---	---	---	---	---	13	2.6	2.4	1.4	2.1
9	---	---	---	---	---	---	---	13	2.6	1.7	1.2	1.9
10	---	---	---	---	---	---	---	12	2.8	1.4	.89	1.4
11	---	---	---	---	---	---	---	11	2.4	1.7	.86	1.0
12	---	---	---	---	---	---	e30.0	9.8	2.3	2.2	1.2	1.1
13	---	---	---	---	---	---	38	9.7	2.2	2.0	2.1	.90
14	---	---	---	---	---	---	41	8.9	2.1	4.5	1.8	.96
15	---	---	---	---	---	---	44	8.1	2.1	2.5	1.2	.86
16	---	---	---	---	---	---	32	7.4	2.1	1.6	1.5	1.0
17	---	---	---	---	---	---	30	7.1	2.1	2.1	1.3	1.4
18	---	---	---	---	---	---	30	7.3	2.0	1.4	4.1	1.4
19	---	---	---	---	---	---	30	6.8	2.1	1.2	7.7	1.5
20	---	---	---	---	---	---	24	6.6	2.1	1.3	3.5	1.5
21	---	---	---	---	---	---	24	6.0	2.0	1.0	2.2	1.7
22	---	---	---	---	---	---	22	5.3	2.0	.81	2.0	1.8
23	---	---	---	---	---	---	22	5.2	2.0	1.0	2.0	1.6
24	---	---	---	---	---	---	22	4.9	2.0	2.8	1.8	1.5
25	---	---	---	---	---	---	21	4.6	2.0	1.5	1.8	1.5
26	---	---	---	---	---	---	20	4.7	2.0	1.3	1.4	1.6
27	---	---	---	---	---	---	20	4.3	2.0	1.4	1.3	1.7
28	---	---	---	---	---	---	20	3.9	2.1	3.7	1.4	1.7
29	---	---	---	---	---	---	20	3.6	2.3	1.8	5.1	1.7
30	---	---	---	---	---	---	23	3.3	1.1	2.8	3.2	1.9
31	---	---	---	---	---	---	---	3.2	---	1.8	2.4	---
TOTAL	---	---	---	---	---	---	---	313.7	72.9	54.25	63.16	46.62
MEAN	---	---	---	---	---	---	---	10.1	2.43	1.75	2.04	1.55
MAX	---	---	---	---	---	---	---	29	5.0	4.5	7.7	2.2
MIN	---	---	---	---	---	---	---	3.2	1.1	.81	.86	.86
AC-FT	---	---	---	---	---	---	---	622	145	108	125	92

e Estimated

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 estimated daily discharge, 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, 16 ft^3/s, at 1645 hours, June 2, gage height 1.23 ft; minimum daily discharge 0.02 ft^3/s, Sept. 11-13 and 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	2.2	---	---	---	---	---	---	1.8	1.1	.10	e.12	.96
2	2.2	---	---	---	---	---	---	1.5	2.1	.09	e.12	.95
3	2.1	---	---	---	---	---	---	1.3	1.6	.07	e.12	.92
4	2.2	---	---	---	---	---	---	1.1	1.3	e.08	.13	.92
5	---	---	---	---	---	---	---	.93	1.3	e.08	.15	.89
6	---	---	---	---	---	---	---	.84	1.3	e.07	.16	.87
7	---	---	---	---	---	---	---	.78	1.2	e.04	.17	.47
8	---	---	---	---	---	---	---	.76	1.2	e.05	.16	.34
9	---	---	---	---	---	---	---	.74	1.1	e.04	.11	.09
10	---	---	---	---	---	---	---	.52	.58	e.03	.10	.03
11	---	---	---	---	---	---	---	.45	.51	e.05	.18	.02
12	---	---	---	---	---	---	e3.20	.38	.50	e.10	.30	e.02
13	---	---	---	---	---	---	3.9	.37	.47	e.12	.48	e.02
14	---	---	---	---	---	---	4.1	.34	.28	e.16	.37	e.03
15	---	---	---	---	---	---	4.6	.28	.26	e.15	.35	e.04
16	---	---	---	---	---	---	3.6	.28	.28	e.16	.50	.06
17	---	---	---	---	---	---	1.8	.24	.28	e.11	.95	.06
18	---	---	---	---	---	---	2.0	.20	.25	e.10	1.5	.06
19	---	---	---	---	---	---	2.4	.28	.39	e.08	1.8	.03
20	---	---	---	---	---	---	2.1	.29	.24	e.06	1.3	.02
21	---	---	---	---	---	---	1.9	.24	.20	e.05	1.1	.03
22	---	---	---	---	---	---	1.9	.17	.21	e.04	1.2	.07
23	---	---	---	---	---	---	1.9	.13	.20	e.04	1.6	e.10
24	---	---	---	---	---	---	1.9	.11	.19	e.12	1.6	e.09
25	---	---	---	---	---	---	1.9	.12	.17	e.10	1.2	e.15
26	---	---	---	---	---	---	1.8	.11	.15	e.10	1.1	.38
27	---	---	---	---	---	---	1.9	.07	.17	e.19	1.0	.97
28	---	---	---	---	---	---	1.9	.06	.17	e.10	1.0	.94
29	---	---	---	---	---	---	1.8	.03	.15	e.12	1.0	.96
30	---	---	---	---	---	---	2.0	.21	.12	e.16	1.0	.96
31	---	---	---	---	---	---	---	1.1	---	e.13	.98	---
TOTAL	---	---	---	---	---	---	---	15.73	17.97	2.89	21.85	11.45
MEAN	---	---	---	---	---	---	---	.51	.60	.093	.70	.38
MAX	---	---	---	---	---	---	---	1.8	2.1	.19	1.8	.97
MIN	---	---	---	---	---	---	---	.03	.12	.03	.10	.02
AC-FT	---	---	---	---	---	---	---	31	36	5.7	43	23

e Estimated

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 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, 67,600 acre-ft, May 4,8, gage height, 132.05 ft; minimum, 55,100 acre-ft, Sept.30, gage height, 126.07 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64700	64200	64100	64400	64900	65200	e65900	67400	e65100	62500	60400	57400
2	64600	64100	64000	64400	64900	65300	e66000	67500	e65100	62500	60300	57200
3	64600	64200	64200	64700	64900	65300	e66000	67500	e65000	62400	60200	57200
4	64500	64200	64100	64400	64800	65300	e66100	67600	e65000	62200	60100	57100
5	64500	64100	64100	64400	64900	65400	e66200	67500	e64900	62200	60000	57000
6	64500	64100	64200	64400	64900	65400	e66200	67500	e64900	62100	59900	56900
7	64500	64100	64100	64500	64900	65400	e66300	67500	e64800	62000	59800	56800
8	64500	64100	64200	64600	65000	65500	e66300	67600	e64800	61900	59600	56700
9	64500	64100	64200	64500	65000	65500	e66400	67400	64700	61800	59500	56600
10	64500	64100	64100	64500	65000	65500	e66400	67300	64700	61800	59400	56500
11	64500	64100	64200	64400	65000	65600	e66500	67100	64600	61700	59400	56400
12	64400	64100	64200	64500	65100	65300	e66600	67100	64600	61700	59400	56300
13	64400	64100	64200	64500	65000	65500	e66500	67000	64400	61700	59300	56200
14	64400	64100	64200	64500	65100	65500	66600	66900	64400	61600	59200	56100
15	64400	64100	64200	64500	65100	65600	66700	66800	64300	61500	59100	56000
16	64400	64100	64200	64400	65100	65500	66800	66700	64100	61500	58900	56000
17	64400	63900	64200	64500	65100	65500	66800	66500	64100	61400	58800	56000
18	64400	64100	64200	64600	65100	65600	66900	66400	64000	61300	58900	55900
19	64300	64000	64200	64600	65000	65600	66900	66300	63900	61300	58700	55900
20	64400	64100	64200	64600	65100	65600	66900	66200	63800	61200	58600	55800
21	64300	64100	64200	64600	65100	65600	66900	66100	63600	61100	58500	55800
22	64400	64100	64200	64600	65200	65800	67000	66000	63500	61100	58400	55800
23	64300	64100	64300	64600	65100	e65800	67000	65900	63400	61000	58400	55700
24	64300	64100	64300	64600	65100	e65800	67000	65900	63300	60900	58300	55500
25	64300	64000	64300	64700	65100	e65800	67100	65700	63200	60900	58100	55500
26	64300	64000	64300	64700	65200	e65700	67100	65600	63100	60800	58000	55400
27	64300	64000	64300	64700	65100	e65700	67100	65600	62900	60800	57900	55300
28	64200	64100	64400	64800	65200	e65700	67200	65500	62900	60700	57800	55200
29	64200	64100	64300	64900	65200	e65700	67200	65300	62800	60600	57700	55200
30	64200	64100	64300	64800	---	e65800	67400	65200	62600	60500	57500	55100
31	64200	---	64400	64800	---	e65800	---	65200	---	60400	57500	---
MAX	64700	64200	64400	64900	65200	65800	67400	67600	65100	62500	60400	57400
MIN	64200	63900	64000	64400	64800	65200	65900	65200	62600	60400	57500	55100
(+)	130.49	130.41	130.56	130.77	130.93	131.21	131.93	130.94	129.75	128.70	127.24	126.07
(++)	-500	-100	+300	+400	+400	+600	+1600	-2200	-2600	-2200	-2900	-2400

CAL YR 1999 MAX 67300 MIN 58000 (++) +6300
WTR YR 2000 MAX 67600 MIN 55100 (++) -9600

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 good. Flow regulated by Eagle Nest Lake (station 07205500) 300 ft upstream. Diversions for irrigation of 2,500 acres upstream from station. No flow at times most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	8.0	2.3	.81	.62	.32	.54	.45	53	40	36	43
2	16	7.9	2.2	.81	.80	.17	.59	.45	53	35	36	43
3	16	8.1	1.9	.81	.80	.19	.46	.45	47	35	36	34
4	16	8.1	1.7	.81	.80	.16	.47	.45	41	35	48	29
5	10	8.1	1.2	.81	.80	.16	.51	.44	37	35	56	34
6	5.6	6.6	.87	.81	.80	.16	.58	6.5	29	33	59	36
7	5.6	5.2	.76	.81	.80	.17	.60	38	26	33	65	36
8	5.6	5.2	.81	.81	.78	.16	.60	40	26	33	65	36
9	4.9	4.8	.80	.81	.79	.15	.59	39	26	33	65	36
10	4.5	4.2	.75	.81	.80	.16	.62	39	26	33	65	36
11	4.2	4.2	.61	.81	.78	5.1	.57	39	26	33	65	35
12	3.9	4.2	.62	.81	.74	9.7	.62	39	26	33	65	35
13	4.0	4.2	.62	.81	.64	7.9	.62	39	27	33	65	36
14	6.6	4.0	.61	.86	.64	6.6	.62	39	29	33	65	36
15	9.3	3.9	.67	1.1	.48	6.5	.63	40	29	33	65	20
16	9.3	3.9	.81	1.2	.45	2.8	.63	47	29	33	64	7.2
17	9.3	3.7	.81	1.2	.54	.30	.62	49	29	31	65	7.4
18	10	3.6	.81	1.2	.55	.38	.64	50	42	28	60	7.4
19	10	3.6	.81	1.1	.61	.30	.63	51	52	20	57	7.4
20	10	3.6	.81	1.0	.59	.24	.63	51	54	18	57	11
21	10	3.6	.81	.91	.51	.15	.67	51	54	18	55	16
22	8.4	3.6	.81	.83	.46	.16	.66	49	54	18	53	22
23	3.4	3.4	.81	.81	.45	.16	.69	38	54	23	53	22
24	2.7	3.1	.81	.84	.46	.19	.77	38	53	30	53	22
25	2.5	2.8	.81	1.0	.49	.16	.81	38	53	30	53	25
26	3.8	2.9	.81	1.0	.45	.88	.59	38	53	30	53	28
27	7.9	2.6	.81	.86	.45	.97	.45	38	53	30	53	28
28	8.1	2.5	.81	.66	.39	.81	.45	38	53	24	53	28
29	8.1	2.5	.81	.62	.40	.79	.44	49	53	22	46	28
30	8.1	2.4	.81	.64	---	.60	.45	53	53	33	43	25
31	8.1	---	.81	.63	---	.56	---	53	---	36	43	---
TOTAL	247.9	134.5	29.38	26.99	17.87	47.05	17.75	1091.74	1240	934	1717	809.4
MEAN	8.00	4.48	.95	.87	.62	1.52	.59	35.2	41.3	30.1	55.4	27.0
MAX	16	8.1	2.3	1.2	.80	9.7	.81	53	54	40	65	43
MIN	2.5	2.4	.61	.62	.39	.15	.44	.44	26	18	36	7.2
AC-FT	492	267	58	54	35	93	35	2170	2460	1850	3410	1610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2000, BY WATER YEAR (WY)

MEAN	15.8	5.25	.99	.91	2.40	9.48	22.7	35.5	32.3	36.7	22.6	16.8
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1950 - 2000	
ANNUAL TOTAL	3438.76		6313.58			
ANNUAL MEAN	9.42		17.3		16.7	
HIGHEST ANNUAL MEAN					56.5	1994
LOWEST ANNUAL MEAN					5.85	1955
HIGHEST DAILY MEAN	59	Sep 2	[a]65	Aug 7	303	May 24 1994
LOWEST DAILY MEAN	.30	Jan 8	.15	Mar 9,21	.00	May 1 1950
ANNUAL SEVEN-DAY MINIMUM	.30	Jan 8	.16	Mar 4	.00	May 1 1950
ANNUAL RUNOFF (AC-FT)	6820		12520		12070	
10 PERCENT EXCEEDS	29		53		46	
50 PERCENT EXCEEDS	4.2		5.0		6.4	
90 PERCENT EXCEEDS	.62		.46		.00	

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, 3.8 mi west of Cimarron, and at mile 31.6.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	11	5.6	e3.2	e3.2	e2.5	7.8	24	48	45	32	42
2	20	e11	5.5	e3.4	e3.0	e2.8	7.8	22	49	36	32	42
3	20	e11	e5.0	e3.4	e3.8	e2.7	8.3	22	49	35	32	39
4	20	e11	e4.9	e3.2	e3.6	e2.7	8.3	22	43	34	35	31
5	19	e10	e4.2	e4.6	e3.5	e2.6	11	24	e40	30	42	31
6	12	e9.5	e6.0	e3.9	e3.8	2.7	13	27	e35	27	45	37
7	10	e9.0	e5.7	e3.6	4.9	3.1	14	47	25	26	45	38
8	11	e8.6	e5.6	e5.0	5.9	3.1	15	59	22	25	43	39
9	10	8.2	e5.6	e5.5	5.4	3.4	14	58	22	25	35	38
10	9.2	7.9	e6.2	e5.7	5.3	3.1	15	56	20	25	33	38
11	8.6	7.4	e6.0	e6.6	5.0	4.2	27	55	20	27	34	37
12	7.9	7.2	e5.6	e6.0	e4.8	7.0	23	54	19	27	36	37
13	7.5	7.1	e5.4	e5.0	5.4	11	27	54	18	27	35	37
14	7.3	6.9	e5.2	e4.5	4.6	10	28	53	20	27	37	37
15	8.9	6.7	e4.2	e5.0	4.8	9.8	29	53	22	27	47	34
16	e10	6.5	e5.8	5.5	e4.2	11	27	53	23	27	51	11
17	e11	6.4	e6.2	5.5	e3.4	9.1	23	55	24	29	52	6.4
18	e12	6.3	e5.7	5.6	e3.4	7.5	22	53	28	29	59	5.9
19	e13	6.6	e5.4	5.5	e3.8	8.2	25	55	39	27	56	5.4
20	e14	6.1	e5.0	4.9	e3.4	7.3	24	54	39	19	54	5.1
21	14	6.3	e5.0	5.1	2.5	7.6	23	54	42	16	53	8.3
22	14	6.2	e5.4	5.0	2.1	7.3	23	53	46	16	51	14
23	12	5.7	e5.2	e5.0	1.9	7.1	23	46	44	16	50	17
24	8.8	e5.2	e5.0	e5.2	2.0	8.3	22	44	42	25	51	17
25	7.4	e5.4	e5.5	e5.0	3.4	8.3	20	44	42	27	50	18
26	6.9	e5.0	e5.7	5.5	e3.2	8.0	20	44	42	28	50	24
27	7.4	e5.0	e5.1	5.8	e3.2	7.9	20	45	43	28	50	25
28	9.8	5.8	e5.0	e5.4	e2.6	8.2	21	47	44	25	50	25
29	10	5.5	e4.6	e5.0	e2.4	8.0	22	49	47	19	51	25
30	11	5.6	e4.4	e4.2	---	8.0	27	50	48	22	44	25
31	11	---	e5.0	e3.8	---	8.9	---	48	---	32	43	---
TOTAL	363.7	220.1	164.7	150.6	108.5	201.4	590.2	1424	1045	828	1378	789.1
MEAN	11.7	7.34	5.31	4.86	3.74	6.50	19.7	45.9	34.8	26.7	44.5	26.3
MAX	20	11	6.2	6.6	5.9	11	29	59	49	45	59	42
MIN	6.9	5.0	4.2	3.2	1.9	2.5	7.8	22	18	16	32	5.1
AC-FT	721	437	327	299	215	399	1170	2820	2070	1640	2730	1570
(+)	0	0	0	0	0	0	0	21	413	191	188	0
(++)	0	0	0	0	0	0	0	0	0	7.5	244	206

CAL YR 1999 AC-FT (+) 28 (++) 157
WTR YR 2000 AC-FT (+) 813 (++) 458

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2000, BY WATER YEAR (WY)

MEAN	17.8	10.1	5.07	4.24	5.14	12.7	35.5	66.8	50.0	38.5	27.9	19.5
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1950 - 2000	
ANNUAL TOTAL	9054.6		7263.3			
ANNUAL MEAN	24.8		19.8		24.4	
HIGHEST ANNUAL MEAN					80.7	1994
LOWEST ANNUAL MEAN					9.09	1956
HIGHEST DAILY MEAN	387	Apr 30	59	May 8	1240	Jun 17 1965
LOWEST DAILY MEAN	2.0	Mar 16	1.9	Feb 23	.00	Sep 14 1956
ANNUAL SEVEN-DAY MINIMUM	2.4	Mar 11	2.6	Feb 21	.00	Sep 14 1956
INSTANTANEOUS PEAK FLOW			107	Aug 29	[a]15500	Jun 17 1965
INSTANTANEOUS PEAK STAGE			1.94	Aug 29	[b]12.42	Jun 17 1965
INSTANTANEOUS LOW FLOW			.79	Feb 25	.00	Sep 14 1956
ANNUAL RUNOFF (AC-FT)	17960		14410		17670	
10 PERCENT EXCEEDS	59		47		56	
50 PERCENT EXCEEDS	14		12		14	
90 PERCENT EXCEEDS	4.2		4.1		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 estimated daily discharges, which are poor. Diversions for irrigation of about 250 acres upstream from station. Diversion 1,000 ft downstream from station for irrigation of about 300 acres. No flow at times most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Discharge for flood of Aug. 8, 1929, which destroyed gage, was estimated as 5,200 ft^3/s by New Mexico State Engineer.

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	7.1	e4.1	3.2	2.5	e2.6	2.7	11	22	3.0	1.3	e1.7	.80
2	6.8	e4.1	3.1	2.7	e1.4	3.4	10	21	3.1	1.1	e1.8	.61
3	6.6	e4.0	3.0	e2.6	e1.5	3.6	12	23	3.8	1.1	e1.1	.47
4	6.3	e3.9	2.9	e2.6	e2.4	3.3	12	23	3.5	.88	e1.2	.41
5	6.0	e3.8	e3.0	e2.6	e2.1	3.3	21	23	3.7	.64	e1.2	.41
6	5.8	e3.8	e2.4	e2.7	e2.2	3.3	24	24	4.0	.53	e1.1	.33
7	5.9	e3.8	e3.0	e2.7	e2.3	3.4	24	24	3.6	.52	e1.1	.23
8	6.9	e3.7	3.1	e2.7	2.6	3.3	24	22	2.7	.49	e1.1	.26
9	6.8	e3.6	3.1	2.8	2.6	3.1	22	22	2.3	.44	e1.0	.31
10	6.1	3.4	3.1	2.7	2.7	3.2	21	20	2.3	.48	e1.0	.23
11	5.5	3.3	3.1	2.5	2.7	3.0	26	17	2.0	.67	e1.1	.15
12	5.2	3.3	3.2	2.5	2.5	2.9	21	16	1.7	1.4	e.91	.11
13	5.0	3.3	e3.0	2.4	2.6	3.1	28	16	1.5	1.4	e.97	.09
14	4.9	3.2	3.1	2.4	2.6	3.0	29	14	1.3	1.6	e1.1	.08
15	4.6	3.1	3.0	2.4	2.6	3.2	29	13	1.2	2.7	e1.1	.08
16	4.8	3.1	3.0	2.6	2.6	3.9	27	11	1.1	3.7	e1.1	.09
17	6.4	3.1	2.7	e2.5	2.7	3.7	25	9.9	1.1	5.8	e1.4	.09
18	6.5	3.1	2.5	2.6	2.7	3.7	24	9.3	1.1	8.5	e1.7	.09
19	7.5	3.0	2.4	2.4	2.6	3.6	24	9.6	1.8	6.3	e1.1	.10
20	7.4	3.1	2.4	e2.4	2.6	3.9	23	9.9	1.4	4.4	e1.0	.10
21	e6.8	3.1	2.3	e2.3	2.6	4.6	21	8.8	1.1	3.8	e1.2	.14
22	e6.0	3.2	2.3	e2.3	2.6	4.9	20	7.4	1.0	3.3	e1.1	.13
23	e5.8	3.0	2.4	e2.5	2.6	6.1	20	6.1	.90	3.6	e1.2	.11
24	e5.0	3.1	2.4	e2.5	2.5	9.0	20	5.5	.82	2.9	e1.6	.13
25	e4.8	e3.0	2.4	e2.5	2.5	9.4	21	5.6	.80	2.5	1.9	.16
26	e4.5	e2.8	2.4	e2.5	2.2	11	21	5.4	.70	2.6	1.8	.19
27	e4.5	e2.8	2.3	e2.6	2.5	12	20	4.6	.93	2.5	1.7	.20
28	e4.0	3.1	2.4	2.6	2.7	15	20	4.2	1.5	2.3	1.3	.19
29	e4.0	3.0	2.5	2.8	2.8	14	21	3.9	1.7	2.2	1.3	.22
30	e4.0	3.2	2.5	e2.8	---	12	21	3.5	1.7	2.2	1.2	.22
31	e4.1	---	2.5	e2.5	---	14	---	3.2	---	e1.8	.94	---
TOTAL	175.6	100.1	84.7	79.2	71.6	178.6	642	407.9	57.35	73.65	39.02	6.73
MEAN	5.66	3.34	2.73	2.55	2.47	5.76	21.4	13.2	1.91	2.38	1.26	.22
MAX	7.5	4.1	3.2	2.8	2.8	15	29	24	4.0	8.5	1.9	.80
MIN	4.0	2.8	2.3	2.3	1.4	2.7	10	3.2	.70	.44	.91	.08
AC-FT	348	199	168	157	142	354	1270	809	114	146	77	13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2000, BY WATER YEAR (WY)

MEAN	3.74	3.38	2.44	2.17	2.30	5.16	25.3	51.0	18.8	7.44	15.0	5.53
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1916 - 2000	
ANNUAL TOTAL	14788.1		1916.45			
ANNUAL MEAN	40.5		5.24		12.0	
HIGHEST ANNUAL MEAN					40.9	1999
LOWEST ANNUAL MEAN					1.38	1974
HIGHEST DAILY MEAN	805	May 3	29	Apr 14,15	819	Jun 17 1965
LOWEST DAILY MEAN	1.4	Jan 23	.08	Sep 14,15	.00	Jun 23 1951
ANNUAL SEVEN-DAY MINIMUM	1.8	Jan 17	.09	Sep 13	.00	Jun 23 1951
INSTANTANEOUS PEAK FLOW			30	Apr 13	[a]5630	Jun 17 1965
INSTANTANEOUS PEAK STAGE			2.18	Apr 14,15	11.13	Jun 17 1965
INSTANTANEOUS LOW FLOW			.07	Sep 14,15	.00	Jun 23 1951
ANNUAL RUNOFF (AC-FT)	29330		3800		8710	
10 PERCENT EXCEEDS	90		18		28	
50 PERCENT EXCEEDS	6.1		2.8		3.2	
90 PERCENT EXCEEDS	2.3		.69		.46	

e Estimated
a From rating curve extended above 230 ft^3/s, on basis of slope-area measurements 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 estimated daily discharges, which are poor. No diversion upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	5.5	5.3	4.7	e5.1	4.9	14	32	7.9	5.4	3.3	3.0
2	6.4	5.3	4.5	e4.8	e4.9	5.3	13	34	8.9	4.9	3.1	2.8
3	6.4	5.4	e2.0	e5.0	4.7	4.8	12	31	10	5.2	3.0	2.6
4	6.2	5.4	e4.0	e5.0	4.5	5.4	13	27	8.7	4.5	3.4	2.6
5	6.1	5.4	e4.9	5.3	4.4	5.9	19	27	8.6	4.2	3.5	2.8
6	6.1	5.2	e6.0	6.3	4.3	5.4	32	27	8.9	6.4	3.7	2.6
7	6.1	5.2	e5.4	e5.4	4.7	6.1	36	27	7.9	8.9	5.6	2.5
8	6.1	5.4	e6.2	e5.4	4.4	5.9	32	27	7.2	6.0	4.4	2.8
9	5.9	5.3	e6.2	e5.4	4.4	6.1	29	27	7.1	5.1	3.7	3.0
10	5.8	e3.7	e5.7	e5.2	4.6	5.4	30	24	6.9	4.9	3.4	2.6
11	5.8	e4.8	e5.5	3.7	4.5	5.2	32	23	6.6	5.5	3.4	2.3
12	5.8	e5.5	e7.3	3.6	4.1	5.4	31	22	6.2	6.3	4.2	2.2
13	5.8	5.3	e6.0	e4.8	4.3	5.5	38	21	5.6	6.0	6.1	2.3
14	5.5	5.1	e6.0	e4.8	4.5	5.8	44	19	5.4	6.9	4.5	2.2
15	5.2	5.0	e6.5	3.5	4.8	6.4	43	18	5.3	6.5	3.9	2.3
16	5.6	5.1	e5.2	3.5	4.3	7.0	38	16	5.1	5.6	3.8	2.2
17	6.5	5.0	e4.8	3.7	4.8	6.2	36	15	5.4	6.4	4.0	2.3
18	6.6	5.4	e5.7	4.1	e4.7	6.3	35	15	5.4	5.3	6.4	2.3
19	7.9	4.5	e5.7	4.5	e4.6	7.4	35	15	5.9	4.8	7.1	2.2
20	7.2	5.2	e6.0	4.6	e4.7	6.3	32	14	5.1	4.7	4.8	2.3
21	7.3	4.9	e6.0	4.2	4.8	5.9	31	13	4.7	4.7	4.3	2.5
22	7.2	4.0	e5.7	4.1	4.8	4.8	30	12	4.7	4.5	4.5	2.4
23	6.8	e3.2	e4.9	e3.0	4.2	9.0	29	11	4.7	4.6	3.8	2.3
24	6.3	e5.5	e4.6	e4.6	4.7	9.7	28	11	4.5	5.0	3.8	2.3
25	6.1	e4.8	e4.9	4.4	4.1	11	28	11	4.7	4.0	3.7	2.4
26	5.9	e5.4	e4.5	4.4	e4.5	13	28	11	4.5	4.0	4.7	2.5
27	5.8	e5.1	e4.9	4.5	5.2	16	28	10	5.3	4.0	3.9	2.4
28	5.7	e4.9	e4.8	3.9	5.1	18	28	9.4	5.8	4.2	3.5	2.3
29	5.6	5.0	e4.5	4.9	5.0	19	29	8.9	7.4	3.8	3.5	2.4
30	5.6	5.1	5.0	e4.8	---	20	31	8.3	6.7	4.0	3.7	2.3
31	5.7	---	e5.1	e4.9	---	17	---	8.0	---	3.6	3.2	---
TOTAL	191.7	150.6	163.8	141.0	133.7	260.1	884	574.6	191.1	159.9	127.9	73.7
MEAN	6.18	5.02	5.28	4.55	4.61	8.39	29.5	18.5	6.37	5.16	4.13	2.46
MAX	7.9	5.5	7.3	6.3	5.2	20	44	34	10	8.9	7.1	3.0
MIN	5.2	3.2	2.0	3.0	4.1	4.8	12	8.0	4.5	3.6	3.0	2.2
AC-FT	380	299	325	280	265	516	1750	1140	379	317	254	146

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2000, BY WATER YEAR (WY)

MEAN	5.85	5.07	4.02	3.68	4.09	7.83	30.8	52.9	23.0	10.5	11.6	7.27
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1912 - 2000	
ANNUAL TOTAL	7148.6		3052.1			
ANNUAL MEAN	19.6		8.34		13.9	
HIGHEST ANNUAL MEAN					41.6	1965
LOWEST ANNUAL MEAN					2.83	1956
HIGHEST DAILY MEAN	216	May 10	44	Apr 14	2000	Jun 18 1965
LOWEST DAILY MEAN	2.0	Dec 3	2.0	Dec 3	.40	Nov 16 1956
ANNUAL SEVEN-DAY MINIMUM	4.4	Nov 28	2.3	Sep 11	.67	Sep 15 1956
INSTANTANEOUS PEAK FLOW			48	Apr 15	[a]9000	Jun 17 1965
INSTANTANEOUS PEAK STAGE			2.97	Apr 15	[b]11.50	Jun 17 1965
INSTANTANEOUS LOW FLOW			[e]2.0	Jan 3	[c].03	Dec 3 1950
ANNUAL RUNOFF (AC-FT)	14180		6050		10070	
10 PERCENT EXCEEDS	48		22		30	
50 PERCENT EXCEEDS	7.3		5.3		5.5	
90 PERCENT EXCEEDS	5.3		3.3		2.7	

e Estimated
a From rating curve extended above 70 ft^3/s, on basis of field estimated 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 estimated daily discharges, 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 extended 10,000 ft^3/s, but probably were less than the 1965 flood.

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	13	25	23	e15.4	12	10	20	30	6.0	1.9	.16	.19
2	13	27	22	e15.2	11	13	28	27	6.1	3.4	.13	.17
3	13	27	22	e15.0	11	13	38	35	8.1	3.6	.10	.70
4	13	27	22	14	13	12	31	33	7.3	3.5	.26	2.3
5	15	26	18	18	13	11	27	34	8.2	1.7	1.7	2.4
6	17	26	e15.0	16	12	11	28	32	9.5	.90	1.3	.53
7	17	27	e15.2	14	12	11	37	33	8.7	.65	1.3	.34
8	17	26	e15.6	15	11	11	37	33	8.1	.45	.67	.27
9	17	20	e15.2	14	11	11	35	32	7.2	.47	.55	.24
10	17	18	e15.4	16	11	10	35	21	6.5	.36	.46	.23
11	17	18	e15.6	19	11	9.5	28	16	6.3	.42	.41	.19
12	17	18	e15.2	22	10	9.5	52	14	6.4	e.53	.34	.16
13	17	19	e15.0	20	10	8.8	43	14	4.1	.34	.43	.13
14	16	15	e14.6	18	10	6.9	41	13	3.6	.54	2.1	.11
15	17	17	e14.4	16	9.7	6.4	44	12	3.3	.34	2.5	.10
16	17	18	e14.6	14	9.6	8.3	42	7.8	2.4	.23	1.3	.09
17	21	23	e14.8	14	9.6	10	38	7.1	2.1	1.4	1.8	.08
18	27	25	e15.0	15	9.5	9.5	37	8.3	2.1	.68	2.5	.08
19	35	22	e15.0	14	9.5	8.9	36	9.0	2.3	.35	1.4	.08
20	37	24	e15.0	14	9.9	7.7	36	8.2	2.1	.26	.85	.07
21	34	24	e14.8	14	10	7.3	36	8.7	1.8	.22	.65	.08
22	32	24	e14.8	13	10	15	35	7.5	1.6	.20	.50	.07
23	31	25	e14.6	13	9.9	23	35	6.4	1.4	.43	.41	.06
24	25	24	e14.8	13	9.8	32	34	6.1	1.2	.48	2.3	.07
25	25	23	e14.8	13	9.8	19	32	7.9	1.2	.35	.93	.09
26	24	22	e15.2	13	9.9	14	25	6.7	.94	.27	.46	.10
27	24	24	e15.0	15	9.8	11	22	5.4	1.2	.24	.38	.10
28	20	23	e15.2	15	11	10	23	5.4	1.3	.21	.30	.11
29	20	23	e15.4	15	10	9.5	25	5.5	1.9	.26	.27	.12
30	23	23	e15.2	12	---	9.6	21	5.8	2.8	.23	.24	.13
31	23	---	e15.0	11	---	17	---	6.5	---	.20	.21	---
TOTAL	654	683	497.4	465.6	306.0	365.9	1001	491.3	125.74	25.11	26.91	9.39
MEAN	21.1	22.8	16.0	15.0	10.6	11.8	33.4	15.8	4.19	.81	.87	.31
MAX	37	27	23	22	13	32	52	35	9.5	3.6	2.5	2.4
MIN	13	15	14	11	9.5	6.4	20	5.4	.94	.20	.10	.06
AC-FT	1300	1350	987	924	607	726	1990	974	249	50	53	19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2000, BY WATER YEAR (WY)

MEAN	8.85	8.77	7.91	8.08	8.29	10.9	33.3	91.7	44.0	11.8	17.5	12.7
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1908 - 2000	
ANNUAL TOTAL	25898.3		4651.35			
ANNUAL MEAN	71.0		12.7		22.2	
HIGHEST ANNUAL MEAN					139	1994
LOWEST ANNUAL MEAN					.90	1957
HIGHEST DAILY MEAN	2930	May 1	52	Apr 12	10500	Jun 18 1965
LOWEST DAILY MEAN	2.2	Jul 3	.06	Sep 23	.00	Sep 2 1954
ANNUAL SEVEN-DAY MINIMUM	3.1	Jul 2	.07	Sep 18	.00	Sep 16 1954
INSTANTANEOUS PEAK FLOW			62	Apr 12	[a]29500	Jun 18 1965
INSTANTANEOUS PEAK STAGE			4.20	Apr 12	[b]19.96	Jun 18 1965
INSTANTANEOUS LOW FLOW			.05	Sep 22	.05	Sep 22 2000
ANNUAL RUNOFF (AC-FT)	51370		9230		16100	
10 PERCENT EXCEEDS	108		28		30	
50 PERCENT EXCEEDS	15		11		4.1	
90 PERCENT EXCEEDS	5.5		.25		1.2	

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$^1/_4$SE$^1/_4$ sec.21, T.24 N., R.23 E., Colfax County, Hydrologic Unit 11080003, on left bank at head of gorge, 2.0 mi south of Taylor Springs, 2.3 mi downstream from Cimarron River, 2.4 mi upstream from Chico Creek, 7.1 mi southeast of Springer, and at mile 847.9.

DRAINAGE AREA.--2,850 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 estimated daily discharges, 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	44	47	e47	44	47	109	70	17	23	.65	.32
2	25	45	47	e45	e46	52	119	73	16	29	.69	.24
3	25	46	47	e38	e48	63	130	76	26	24	.45	.22
4	25	47	49	e48	e52	64	121	76	18	16	.35	.17
5	26	47	49	e50	e54	58	102	77	17	14	3.8	.65
6	27	47	50	e55	58	55	116	70	21	9.6	6.1	2.1
7	30	46	57	e56	56	56	160	67	18	5.0	34	.87
8	32	46	e58	e58	55	58	154	66	16	2.2	5.8	.60
9	32	41	e53	e59	53	57	130	66	14	2.7	2.9	2.1
10	33	38	e48	e60	52	55	116	55	13	3.6	1.3	.49
11	36	39	e42	e62	50	52	113	39	11	3.3	.77	.28
12	35	38	e36	e61	48	51	143	33	12	1.8	.50	.20
13	37	41	e33	e60	47	51	131	31	9.5	16	.51	.13
14	36	36	e33	e53	46	48	126	30	6.5	11	.52	.11
15	32	37	e36	e55	46	46	127	29	5.7	8.4	3.3	.09
16	30	39	e37	58	45	58	119	24	4.5	6.2	3.2	.08
17	36	43	e39	58	45	61	110	24	3.9	8.4	36	.07
18	40	46	e40	59	44	63	102	22	3.4	20	158	.06
19	50	43	e41	57	44	59	92	22	3.6	15	33	.07
20	58	44	e42	53	48	59	92	24	3.4	9.4	16	.07
21	53	45	e43	49	51	55	89	26	2.7	6.0	8.2	.06
22	49	47	e43	46	51	81	87	25	2.7	3.8	4.7	.03
23	48	49	e43	45	49	103	83	23	5.5	3.1	3.8	.03
24	43	48	e43	38	48	114	85	22	2.5	2.4	2.8	.03
25	41	47	e44	43	48	94	79	22	2.1	2.0	3.8	.05
26	42	45	e48	46	45	81	66	28	1.8	1.2	1.9	.08
27	41	49	e51	55	45	71	58	21	2.7	.85	1.2	.08
28	41	49	e55	60	46	62	56	19	100	.94	1.1	.09
29	37	48	e55	56	48	63	64	17	270	.75	.80	.06
30	42	48	e51	39	---	65	62	16	55	.82	.61	.09
31	44	---	e48	41	---	90	---	16	---	.73	.43	---
TOTAL	1151	1328	1408	1610	1412	1992	3141	1209	684.5	251.19	337.18	9.52
MEAN	37.1	44.3	45.4	51.9	48.7	64.3	105	39.0	22.8	8.10	10.9	.32
MAX	58	49	58	62	58	114	160	77	270	29	158	2.1
MIN	25	36	33	38	44	46	56	16	1.8	.73	.35	.03
AC-FT	2280	2630	2790	3190	2800	3950	6230	2400	1360	498	669	19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	38.1	24.0	21.5	22.3	25.8	29.2	125	248	142	90.5	120	77.6
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	59119		14533.39			
ANNUAL MEAN	162		39.7		81.1	
HIGHEST ANNUAL MEAN					564	1942
LOWEST ANNUAL MEAN					7.60	1975
HIGHEST DAILY MEAN	2270	May 2	270	Jun 29	43000	Jun 18 1965
LOWEST DAILY MEAN	12	Apr 10	.03	Sep 22	.00	Jun 29 1946
ANNUAL SEVEN-DAY MINIMUM	13	Apr 7	.05	Sep 19	.00	Jun 24 1953
INSTANTANEOUS PEAK FLOW			839	Jun 29	[a]162000	Jun 18 1965
INSTANTANEOUS PEAK STAGE			6.59	Jun 29	[b]47.40	Jun 18 1965
INSTANTANEOUS LOW FLOW			.02	Sep 22	.02	Sep 22 2000
ANNUAL RUNOFF (AC-FT)	117300		28830		58770	
10 PERCENT EXCEEDS	490		76		130	
50 PERCENT EXCEEDS	45		42		16	
90 PERCENT EXCEEDS	18		.72		2.9	

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 29, 1904, may have exceeded 20,000 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	1.9	6.0	5.7	3.6	2.3	13	14	15	13	11	8.4
2	20	1.4	5.9	e5.7	e6.1	2.1	21	11	18	21	9.8	10
3	17	1.7	e5.8	e4.5	5.8	1.9	19	12	20	16	9.6	11
4	16	1.7	5.7	e3.0	5.6	2.0	16	13	18	13	10	12
5	15	2.9	e5.7	e3.0	5.6	2.1	12	14	18	12	11	11
6	15	3.4	e4.7	e3.7	5.4	2.5	13	12	20	12	11	9.5
7	16	4.0	3.8	e3.0	5.0	2.8	12	12	20	24	9.9	9.0
8	16	1.5	e3.6	e5.8	4.6	2.1	12	12	21	22	9.5	7.3
9	17	.41	e3.3	e7.8	4.3	1.5	13	14	21	15	9.3	7.1
10	18	.63	3.0	e4.6	4.0	.90	13	14	20	14	9.2	6.6
11	18	.58	2.9	e2.3	4.0	.57	38	14	19	13	9.0	6.5
12	19	.56	e2.8	1.9	4.0	.69	27	14	14	14	9.5	6.6
13	18	.46	e2.8	1.2	e3.9	.57	37	15	9.8	15	9.9	6.7
14	18	.29	e2.6	e.80	4.1	.51	37	16	9.8	15	9.2	7.1
15	18	.31	e2.3	.65	4.0	1.3	29	15	10	14	8.8	7.6
16	18	3.9	e1.5	.59	4.0	4.6	27	17	11	13	8.9	7.7
17	20	6.1	e4.2	.65	4.0	7.6	24	16	12	57	9.2	7.7
18	19	5.6	e6.5	.72	3.8	6.9	23	17	16	23	16	7.2
19	14	5.6	e6.5	.60	4.6	6.5	26	17	17	15	14	6.9
20	6.2	5.6	e6.5	1.7	4.1	6.5	27	16	14	13	9.3	7.1
21	6.9	5.8	e4.8	2.2	4.0	6.6	23	17	14	13	9.0	8.6
22	10	5.3	e4.7	1.9	3.9	14	22	15	15	13	8.8	10
23	12	5.2	e4.7	1.6	3.9	12	20	16	14	19	8.7	10
24	13	4.9	e6.3	e1.3	3.7	37	20	14	14	12	8.8	10
25	7.4	e5.1	e6.5	1.1	3.2	19	24	17	14	11	8.7	10
26	3.9	5.2	6.5	1.0	e2.8	15	20	18	14	11	8.7	9.1
27	2.8	5.9	6.3	2.8	2.3	10	18	17	15	11	9.2	9.5
28	1.9	5.5	6.6	3.5	2.3	7.5	19	17	15	11	9.2	10
29	1.7	5.4	6.6	e3.2	2.3	6.7	18	15	15	12	9.2	10
30	1.4	5.8	6.3	e2.4	---	7.6	17	13	14	12	8.5	10
31	1.7	---	e6.0	e2.0	---	11	---	13	---	13	8.3	---
TOTAL	401.9	102.64	151.4	80.91	118.9	202.34	640	457	467.6	492	301.2	260.2
MEAN	13.0	3.42	4.88	2.61	4.10	6.53	21.3	14.7	15.6	15.9	9.72	8.67
MAX	21	6.1	6.6	7.8	6.1	37	38	18	21	57	16	12
MIN	1.4	.29	1.5	.59	2.3	.51	12	11	9.8	11	8.3	6.5
AC-FT	797	204	300	160	236	401	1270	906	927	976	597	516
(+)	266	527	228	323	301	428	198	150	319	314	146	264

CAL YR 1999 (+) 3370 WTR YR (+) 3460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 2000, BY WATER YEAR (WY)

MEAN	17.4	11.2	8.67	8.15	7.83	11.0	33.5	80.0	67.0	34.9	45.1	28.8
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1906 - 2000	
ANNUAL TOTAL	17653.84 (+) 3370		3676.09 (+) 3460			
ANNUAL MEAN	48.4		10.0		29.5	
HIGHEST ANNUAL MEAN					113	1941
LOWEST ANNUAL MEAN					3.12	1956
HIGHEST DAILY MEAN	400	Apr 30	57	Jul 17	1060	Apr 23 1942
LOWEST DAILY MEAN	.29	Nov 14	.29	Nov 14	.00	Dec 22 1907
ANNUAL SEVEN-DAY MINIMUM	.46	Nov 9	.46	Nov 9	.00	Dec 22 1907
INSTANTANEOUS PEAK FLOW			252	Jul 17	1530	Sep 23 1941
INSTANTANEOUS PEAK STAGE			3.43	Jul 17	7.58	Sep 23 1941
INSTANTANEOUS LOW FLOW			.00	Jan 7	.00	Dec 22 1907
ANNUAL RUNOFF (AC-FT)	35020		7290		21340	
10 PERCENT EXCEEDS	147		19		76	
50 PERCENT EXCEEDS	14		9.2		12	
90 PERCENT EXCEEDS	4.0		1.9		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 estimated daily discharges, 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	6.0	6.3	8.3	5.0	3.7	21	10	3.5	14	8.0	4.2
2	20	6.8	7.7	7.8	5.8	4.6	e29	8.7	4.4	12	6.0	5.9
3	17	6.5	12	e7.1	5.9	4.2	e40	7.2	8.6	18	6.0	6.4
4	13	6.2	12	e5.6	8.1	4.2	25	7.6	9.6	14	4.7	6.8
5	11	6.6	6.6	e5.7	7.8	4.4	20	6.5	6.2	12	4.3	8.9
6	11	7.9	7.7	e5.5	8.0	5.2	18	6.3	9.7	7.6	7.6	6.4
7	11	8.5	8.2	e5.0	7.9	5.1	17	4.5	6.7	11	8.1	5.5
8	11	8.3	7.4	e5.8	7.0	4.3	16	4.2	5.9	24	5.7	6.1
9	11	5.6	6.9	e5.8	6.3	3.9	17	5.0	9.4	13	6.2	5.8
10	14	4.4	6.8	e7.5	5.7	3.8	16	5.7	9.2	10	5.9	4.0
11	14	4.5	6.0	e6.9	5.3	3.3	43	4.6	9.5	9.1	4.7	5.1
12	14	4.4	5.4	e6.0	4.6	3.4	48	5.5	11	9.5	5.1	4.6
13	11	4.2	5.9	e5.4	4.3	3.9	43	4.5	6.0	15	7.3	4.1
14	11	4.0	5.0	e4.9	4.5	4.1	41	3.9	3.4	13	8.2	3.6
15	13	3.8	5.8	5.1	4.6	3.8	33	5.2	3.3	12	8.8	2.9
16	13	3.8	6.3	4.8	4.4	4.3	29	4.8	5.0	9.8	7.7	3.1
17	17	5.8	5.5	5.0	4.8	4.4	25	5.8	4.9	40	6.5	5.4
18	17	6.0	7.9	5.3	4.1	5.3	21	6.4	6.0	38	20	3.5
19	18	6.1	8.4	5.0	4.0	11	15	8.4	9.9	17	23	2.3
20	9.4	7.3	8.8	4.4	3.9	12	16	6.8	9.5	15	13	2.2
21	6.6	7.5	e7.2	4.2	4.0	12	14	6.1	18	13	11	2.3
22	9.8	8.1	e6.0	3.8	4.2	23	17	7.3	21	12	12	2.6
23	13	7.6	e5.2	3.5	3.9	19	15	8.0	16	12	6.2	2.0
24	13	7.4	e6.6	3.5	4.5	48	14	4.5	13	7.1	5.6	2.0
25	13	7.2	e8.0	3.7	4.3	43	12	5.2	14	6.7	5.5	2.5
26	8.6	7.5	9.1	4.0	4.4	28	9.6	6.6	11	8.6	5.9	3.2
27	7.4	6.1	8.7	5.1	4.6	19	6.1	5.9	13	5.8	5.2	3.4
28	6.7	5.2	9.0	5.7	4.1	15	12	3.9	13	6.2	9.6	3.0
29	6.3	5.1	9.5	5.3	4.0	14	7.0	5.9	13	4.8	11	4.3
30	6.3	5.3	8.8	5.1	---	14	8.6	5.1	14	5.0	10	4.9
31	6.1	---	8.5	5.1	---	17	---	4.3	---	7.9	9.3	---
TOTAL	372.2	183.7	233.2	165.9	150.0	350.9	648.3	184.4	287.7	403.1	258.1	127.0
MEAN	12.0	6.12	7.52	5.35	5.17	11.3	21.6	5.95	9.59	13.0	8.33	4.23
MAX	20	8.5	12	8.3	8.1	48	48	10	21	40	23	8.9
MIN	6.1	3.8	5.0	3.5	3.9	3.3	6.1	3.9	3.3	4.8	4.3	2.0
AC-FT	738	364	463	329	298	696	1290	366	571	800	512	252

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2000, BY WATER YEAR (WY)

MEAN	22.1	14.6	12.0	12.1	11.4	13.1	44.1	93.7	75.5	41.0	57.0	34.1
MAX	119	86.8	38.9	29.7	27.2	68.8	361	661	377	321	307	153
(WY)	1942	1942	1942	1942	1919	1985	1942	1941	1941	1919	1961	1991
MIN	.21	.40	.52	.65	.55	.58	.25	1.01	.030	1.63	.000	.27
(WY)	1957	1957	1957	1957	1957	1957	1955	1971	1934	1934	1934	1956

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1915 - 2000	
ANNUAL TOTAL	20005.8		3364.5			
ANNUAL MEAN	54.8		9.19		35.2	
HIGHEST ANNUAL MEAN					144	1941
LOWEST ANNUAL MEAN					3.42	1956
HIGHEST DAILY MEAN	868	May 1	48	Mar 24	1750	Apr 23 1942
LOWEST DAILY MEAN	3.1	Apr 28	2.0	Sep 23	.00	May 4 1917
ANNUAL SEVEN-DAY MINIMUM	4.0	Apr 23	2.3	Sep 19	.00	Aug 4 1917
INSTANTANEOUS PEAK FLOW			187	Jul 17	[a]14000	Aug 22 1952
INSTANTANEOUS PEAK STAGE			2.27	Jul 17	[b]14.40	Aug 22 1952
INSTANTANEOUS LOW FLOW			1.1	Feb 2		
ANNUAL RUNOFF (AC-FT)	39680		6670		25510	
10 PERCENT EXCEEDS	157		17		90	
50 PERCENT EXCEEDS	13		6.6		14	
90 PERCENT EXCEEDS	5.3		4.0		2.1	

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	9.5	9.3	14	e8.6	3.7	5.6	1.8	3.6	2.5	1.8	2.0
2	9.5	e9.0	9.2	13	e8.4	3.5	8.7	2.9	3.6	7.7	1.8	1.9
3	9.7	e10	e9.0	12	e9.0	3.6	11	3.0	3.5	6.2	1.8	2.0
4	10	e10	e9.0	e16	e10	3.3	9.7	3.4	3.5	5.5	1.8	2.0
5	11	e10	e10	e15	e9.0	2.7	6.0	4.3	3.5	4.8	1.9	1.9
6	9.6	e9.0	e10	13	e10	2.3	5.4	3.7	3.7	3.9	1.9	1.9
7	9.0	e9.0	e10	13	e9.0	2.3	7.3	3.4	3.7	3.4	2.0	1.6
8	9.5	e10	e10	e18	e9.0	2.3	5.1	3.8	3.4	3.8	1.9	1.3
9	9.7	e10	e12	13	9.5	2.1	5.3	3.3	e1.8	3.4	1.7	1.3
10	9.9	e9.0	e12	15	8.8	2.1	4.5	2.6	1.6	3.4	1.6	1.2
11	9.9	e9.0	e10	14	7.1	3.0	8.8	2.7	1.5	3.0	1.6	1.1
12	9.2	e10	e12	12	7.3	2.3	21	2.2	1.4	3.3	1.6	1.1
13	e7.5	e10	e12	11	6.8	2.7	28	2.3	1.5	3.5	1.7	1.1
14	7.4	e9.0	e11	11	6.3	2.9	28	2.2	1.5	3.1	1.8	1.1
15	7.3	e10	e16	13	5.8	3.4	24	2.4	1.5	3.1	1.8	1.0
16	7.2	e10	15	13	5.4	4.3	20	2.6	1.4	3.1	1.6	1.1
17	9.0	10	14	13	5.3	4.5	16	2.6	1.4	3.1	1.6	1.5
18	12	10	14	14	5.1	4.3	11	2.8	1.4	3.1	4.7	2.0
19	14	9.7	13	13	5.4	4.6	7.6	2.4	2.0	2.4	4.4	1.7
20	14	10	13	12	5.0	4.7	8.9	2.4	1.4	2.1	2.6	1.0
21	13	10	13	9.5	4.8	3.8	12	2.4	1.3	1.8	2.4	1.1
22	13	10	e14	6.2	4.4	20	9.0	2.5	1.2	1.9	2.1	1.0
23	13	11	e15	6.2	3.9	14	9.1	2.5	1.2	2.5	1.7	1.0
24	14	11	e14	9.4	3.8	11	9.3	2.5	1.2	2.1	1.8	.99
25	13	12	e14	7.9	4.0	7.8	6.4	2.7	1.2	1.8	1.7	1.0
26	13	11	14	e7.0	5.8	6.5	2.9	2.7	1.5	1.9	1.7	1.6
27	12	11	16	e10	3.6	5.2	2.3	2.8	3.0	1.8	1.6	2.2
28	12	11	15	e12	3.7	4.3	2.2	2.9	3.0	1.8	1.7	2.3
29	12	10	14	e11	3.7	5.1	2.6	3.0	3.8	1.7	1.9	2.4
30	13	9.7	13	e9.0	---	4.2	2.0	3.2	3.3	1.8	1.9	2.4
31	9.6	---	14	e9.0	---	5.6	---	3.2	---	1.9	2.0	---
TOTAL	332.4	299.9	386.5	365.2	188.5	152.1	299.7	87.2	67.6	95.4	62.1	45.79
MEAN	10.7	10.0	12.5	11.8	6.50	4.91	9.99	2.81	2.25	3.08	2.00	1.53
MAX	14	12	16	18	10	20	28	4.3	3.8	7.7	4.7	2.4
MIN	7.2	9.0	9.0	6.2	3.6	2.1	2.0	1.8	1.2	1.7	1.6	.99
AC-FT	659	595	767	724	374	302	594	173	134	189	123	91

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2000, BY WATER YEAR (WY)

MEAN	9.38	9.14	8.21	7.76	7.96	9.61	20.4	31.8	16.7	9.24	17.4	11.8
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	.83	.78	.65
(WY)	1957	1935	1955	1957	1955	1967	1978	1967	1940	1963	1956	1956

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1930 - 2000	
ANNUAL TOTAL	9094.82		2382.39			
ANNUAL MEAN	24.9		6.51		13.3	
HIGHEST ANNUAL MEAN					52.9	1942
LOWEST ANNUAL MEAN					2.33	1978
HIGHEST DAILY MEAN	203	Aug 6	28	Apr 13,14	1290	Sep 10 1991
LOWEST DAILY MEAN	.92	Mar 11	.99	Sep 24	.00	Aug 4 1945
ANNUAL SEVEN-DAY MINIMUM	1.6	Mar 6	1.1	Sep 20	.10	Jul 20 1939
INSTANTANEOUS PEAK FLOW			57	Jul 2	[a]4050	Aug 17 1961
INSTANTANEOUS PEAK STAGE			2.82	Jul 2	[b]10.10	Aug 30 1936
INSTANTANEOUS LOW FLOW			.84	Sep 23,24	.00	Aug 4 1945
ANNUAL RUNOFF (AC-FT)	18040		4730		9650	
10 PERCENT EXCEEDS	80		13		25	
50 PERCENT EXCEEDS	10		4.6		5.8	
90 PERCENT EXCEEDS	3.2		1.6		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 except for estimated daily discharges, which are poor. Diversions for irrigation of about 56,000 acres upstream from station. No flow at times some years.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	71	81	99	72	50	90	67	13	184	18	2.0
2	46	69	77	104	55	51	103	73	15	96	9.6	1.1
3	49	74	76	102	57	56	120	72	21	270	10	.68
4	52	75	78	82	56	54	131	80	16	83	9.2	.10
5	54	78	74	75	61	55	152	81	13	49	6.1	.01
6	52	80	72	75	79	65	148	82	20	50	3.6	.00
7	52	78	67	68	87	67	126	79	17	42	2.7	.00
8	47	81	57	77	82	62	125	77	18	31	2.8	.00
9	43	85	63	79	75	57	172	72	12	22	2.1	.00
10	43	85	70	74	75	59	167	68	9.8	15	2.0	.00
11	42	94	75	75	72	63	150	64	7.0	13	.99	.00
12	44	91	76	79	68	61	140	64	5.0	48	.40	.00
13	45	86	79	92	66	59	134	58	4.7	214	.40	.00
14	46	85	71	104	63	57	157	46	3.4	159	.06	.00
15	48	85	63	113	61	55	162	37	2.9	55	.00	.00
16	46	87	67	105	59	58	175	32	1.6	42	7.0	.00
17	52	84	68	91	56	59	178	29	1.4	28	6.3	.00
18	55	78	71	86	55	58	169	28	.83	90	8.0	.00
19	56	79	89	91	54	66	150	27	2.5	132	7.1	.00
20	57	79	92	89	52	69	138	26	1.1	45	4.7	.00
21	67	82	91	87	51	69	122	22	.70	48	55	.00
22	83	79	88	83	49	81	113	20	.33	30	58	.00
23	91	76	73	78	50	139	109	18	.09	31	48	.00
24	88	78	69	66	54	118	104	18	.01	49	34	.00
25	83	89	74	60	55	129	97	20	.00	47	23	.00
26	79	90	84	57	52	138	96	21	.00	30	18	.00
27	77	88	94	52	54	125	95	19	.00	19	10	.00
28	73	87	97	51	53	111	88	15	39	14	8.6	.00
29	74	85	100	58	50	101	78	14	351	18	7.6	.00
30	75	84	98	67	---	88	70	11	270	39	5.0	.00
31	76	---	103	72	---	87	---	13	---	31	3.2	---
TOTAL	1837	2462	2437	2491	1773	2367	3859	1353	846.36	2024	371.45	3.89
MEAN	59.3	82.1	78.6	80.4	61.1	76.4	129	43.6	28.2	65.3	12.0	.13
MAX	91	94	103	113	87	139	178	82	351	270	58	2.0
MIN	42	69	57	51	49	50	70	11	.00	13	.00	.00
AC-FT	3640	4880	4830	4940	3520	4690	7650	2680	1680	4010	737	7.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2000, BY WATER YEAR (WY)

MEAN	107	61.5	52.0	54.3	63.4	62.0	214	427	389	230	317	239
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1913 - 2000	
ANNUAL TOTAL	139713.9		21824.70			
ANNUAL MEAN	383		59.6		187	
HIGHEST ANNUAL MEAN					1191	1942
LOWEST ANNUAL MEAN					19.7	1954
HIGHEST DAILY MEAN	18800	May 1	351	Jun 29	50000	Jun 13 1913
LOWEST DAILY MEAN	8.8	Apr 28	.00	Jun 25	.00	Apr 1 1936
ANNUAL SEVEN-DAY MINIMUM	11	Apr 10	.00	Sep 6	.00	Apr 1 1936
INSTANTANEOUS PEAK FLOW			636	Jul 18	[a]145000	Jun 18 1965
INSTANTANEOUS PEAK STAGE			4.39	Jul 18	[b]36.60	Jun 18 1965
INSTANTANEOUS LOW FLOW			.00	Sep 27	.00	Sep 27 2000
ANNUAL RUNOFF (AC-FT)	277100		43290		135500	
10 PERCENT EXCEEDS	825		104		345	
50 PERCENT EXCEEDS	79		59		46	
90 PERCENT EXCEEDS	24		.40		4.5	

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 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, 298,070 acre-ft, Oct. 1, elevation, 4,199.12 ft; minimum, 189,380 acre-ft, Sept. 30 elevation, 4,184.91 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	298070	285950	286480	288000	290610	291510	295870	285600	266120	253540	238660	212750
2	297700	285600	286480	288090	290700	291510	295870	284710	266210	253860	237820	211930
3	297340	285420	286480	288180	290700	291510	296050	284000	265710	254020	236830	211040
4	296970	285510	286480	288180	290700	291600	296150	283300	265540	254020	235850	210230
5	296510	285600	286480	288270	290790	291600	296330	282680	266790	253860	235170	209750
6	296050	285600	286480	288360	290880	291690	296420	281980	266630	253380	234260	208740
7	295420	285600	286480	288450	290970	291690	296510	281190	266120	252890	233510	207400
8	294960	285680	286480	288450	291060	291600	296700	280400	265620	252410	232530	206590
9	294500	285680	286480	288720	291060	291510	296700	279790	264950	251850	231640	205660
10	294050	285770	286480	288720	291150	291510	296510	279090	264450	251200	230740	204860
11	293590	285770	286580	288720	291150	291510	296150	278220	263790	250560	229860	204000
12	293050	285860	286580	288720	291240	291510	295780	277520	263200	250800	229340	203280
13	292500	285860	286580	288720	291330	291510	295500	277000	262460	250800	228380	202420
14	292050	285950	286580	288720	291330	291510	295140	276490	261460	250640	227430	201630
15	291510	285950	286660	288810	291330	291600	294680	275970	260720	250240	226620	200910
16	291060	286040	286660	288900	291510	291780	294500	275540	259980	249760	225750	200320
17	290700	286130	286660	288990	291510	291780	294230	274680	259240	248970	225020	199610
18	290340	285860	286660	289080	291510	291870	293870	273910	258500	248410	224520	198770
19	289890	285860	286660	289170	291600	291870	293410	273400	257680	247940	223790	198120
20	289440	286040	286840	289260	291690	291960	292960	272880	256950	247220	223070	197280
21	289080	285950	286930	289260	291690	292050	292600	272370	256050	246440	222070	196320
22	288720	285950	287020	289710	291600	293140	291960	271940	255240	245800	221280	195560
23	288360	285860	287110	289980	291690	293960	291420	271430	254260	245100	220500	194660
24	288000	286040	287200	290160	291690	294410	290880	271010	253460	244470	219720	193900
25	287650	285950	287380	290240	291600	294600	290340	270330	252570	243770	218800	193200
26	287470	286130	287470	289980	291510	294770	289530	269570	251930	243060	218090	192440
27	287020	286130	287470	290240	291510	294960	288990	268980	251370	242370	217110	191630
28	286660	286130	287560	290240	291600	295140	288000	268470	251600	241590	216270	190870
29	286310	286220	287740	290240	291600	295230	287110	267880	252160	241050	215510	190190
30	286130	286310	287830	290340	---	295420	286400	267130	252810	240050	214680	189380
31	286040	---	287910	290520	---	295600	---	266460	---	239350	213640	---
MAX	298070	286310	287910	290520	291690	295600	296700	285600	266790	254020	238660	212750
MIN	286040	285420	286480	288000	290610	291510	286400	266460	251370	239350	213640	189380
(+)	4197.79	4197.82	4198.00	4198.29	4198.41	4198.85	4197.83	4195.52	4193.86	4192.15	4188.62	4184.91
(++)	-12400	+270	+1600	+2610	+1080	+4000	-9200	-19940	-13650	-13460	-25710	-24260

CAL YR 1999 MAX 321950 MIN 235540 (++) +47090
WTR YR 2000 MAX 298070 MIN 189380 (++) -109060

(+) 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 NW$^1/_4$SE$^1/_4$ 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 good except for estimated daily discharges, which are 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	e.00	.00	.00	.00	.00	.00	23	.00	.00	.00
6	.00	.00	e.00	.00	.00	.00	.00	.00	63	.00	.00	.00
7	.00	.00	e.00	.00	.00	.00	.00	.00	.42	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00
9	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	29	.00
19	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	e.00	.00	.00	.00	.00	.00	.00	.00	1.1	.00	.00
24	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	e.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	86.45	1.10	29.00	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	2.88	.035	.94	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	63	1.1	29	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	171	2.2	58	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2000, BY WATER YEAR (WY)

MEAN	9.67	3.20	1.76	2.48	2.03	1.75	10.3	37.7	27.3	50.7	69.0	28.3
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1942 - 2000	
ANNUAL TOTAL	4282.53		116.55			
ANNUAL MEAN	11.7		.32		19.5	
HIGHEST ANNUAL MEAN					57.2	1958
LOWEST ANNUAL MEAN					.084	1974
HIGHEST DAILY MEAN	2060	May 2	63	Jun 6	7420	May 28 1946
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Jul 17 1942
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Mar 18 1943
INSTANTANEOUS PEAK FLOW			459	Jun 6	[a]24500	May 28 1946
INSTANTANEOUS PEAK STAGE			2.18	Jun 6	[b]9.94	Aug 11 1981
ANNUAL RUNOFF (AC-FT)	8490		231		14120	
10 PERCENT EXCEEDS	.59		.00		17	
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. 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, 242,700 acre-ft, Oct. 2, elevation, 3,786.72 ft; minimum, 179,200 acre-ft, Sept. 30, elevation, 3,777.88 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	242600	240300	238600	237400	236500	219300	201600	197100	194300	194600	188100	184000
2	242700	240200	238500	237400	236500	218800	200900	197000	194200	195200	188000	183800
3	242600	240200	238400	237200	236400	218000	200200	197000	194400	195100	187700	183500
4	242600	240300	238600	237200	236000	217400	199500	197000	194200	195100	187500	183400
5	242600	240200	238400	237100	235600	216800	198900	197000	196100	195000	187300	183200
6	242300	240200	238400	237000	235200	215900	198700	196900	197100	194900	187200	182700
7	242200	240200	238400	236900	234700	216100	198400	196900	197100	194500	187000	182500
8	242000	240100	238200	237200	234400	214900	198500	196600	196800	194400	186900	182600
9	242100	240100	238400	236900	233700	213500	198300	196700	196800	194200	186700	182300
10	242000	240000	238200	236800	233000	212700	198100	196700	196800	194000	186500	182200
11	242000	239900	238100	237000	232300	212100	198300	196200	196400	194000	186300	182000
12	241900	239900	238000	236700	232100	211400	198500	195800	196500	194000	186300	181800
13	241900	239900	238100	236800	230900	210700	198600	195700	196300	194900	186100	182000
14	241900	239900	237900	236800	230400	210000	198600	195500	196000	195200	185900	181600
15	241500	239800	237800	236600	229400	209700	198200	195600	195500	194900	185700	181600
16	241200	239700	237800	236600	228800	209600	198200	195500	195500	194600	185600	181400
17	241300	239700	237800	236700	228000	209600	198300	195000	195400	194700	185500	181200
18	241100	239300	237600	236800	227300	209600	198300	194900	195400	194300	185500	181200
19	241100	239200	237600	236800	226700	209300	197800	195100	195500	193300	185500	181100
20	241100	239200	237700	236800	226000	208500	197800	194800	194900	192500	185400	180600
21	241100	239000	237600	236800	225300	207800	197800	194800	194700	191500	185100	180600
22	241100	239100	237600	236800	224900	207700	197700	194700	194900	191200	185000	180000
23	241000	238900	237600	236800	224800	207200	197600	194600	194800	190300	185400	179900
24	241000	239100	237600	236700	224400	206700	197600	194400	194600	189700	185400	179700
25	240900	238900	237600	236700	223100	206200	197500	194900	194200	188800	185200	179800
26	240800	238900	237600	236600	222300	205500	197600	195100	194300	188700	185200	179700
27	240800	238800	237600	236600	221600	205000	197500	195000	194600	188600	184800	179500
28	240700	238800	237600	236500	221600	204100	197500	195100	194400	188500	184600	179400
29	240700	238800	237600	236500	219900	203300	197300	194800	194600	188300	184600	179400
30	240500	238800	237600	236500	---	202700	197200	194600	194600	188300	184300	179200
31	240400	---	237600	236500	---	202100	---	194400	---	188100	184200	---
MAX	243000	240000	239000	237000	236000	219000	202000	197000	197000	195000	188000	184000
MIN	240000	239000	238000	236000	220000	202000	197000	194000	194000	188000	184000	179000
(+)	3786.43	3786.23	3786.08	3785.94	3783.77	3781.30	3780.59	3780.19	3780.21	3779.24	3778.65	3777.88
(++)	-2600	-1600	-1200	-1100	-16600	-17800	-4900	-2800	+200	-6500	-3900	-5000

CAL YR 1999 MAX 247600 MIN 172700 (++) +63600
WTR YR 2000 MAX 242700 MIN 179200 (++) -63800

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

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	3.7	2.8	26	2.7	326	329	2.0	2.3	2.4	2.9	2.4
2	11	5.1	8.1	7.6	16	326	329	2.1	2.4	2.8	2.8	2.5
3	4.9	6.7	13	6.2	74	325	329	2.1	2.4	3.2	2.6	2.9
4	3.8	4.0	20	5.3	141	326	329	8.6	2.3	2.7	2.5	2.5
5	4.8	3.2	7.2	3.5	182	325	253	2.5	6.3	2.6	2.6	2.6
6	17	2.9	5.7	3.4	184	325	99	1.9	5.8	2.5	2.7	3.0
7	46	2.9	4.1	5.8	199	331	17	1.8	2.6	4.5	2.9	3.2
8	14	5.3	3.5	16	231	332	5.6	1.9	2.3	2.7	2.8	3.4
9	6.2	12	3.9	7.0	258	325	4.6	1.9	2.2	2.6	2.7	3.2
10	4.6	5.9	3.9	12	279	325	4.7	1.7	2.9	2.3	2.7	3.1
11	3.2	3.6	3.2	9.5	290	325	4.5	1.5	2.6	2.3	2.6	3.1
12	4.0	3.1	3.0	3.7	317	325	4.2	1.7	2.5	2.4	2.4	3.2
13	3.7	2.9	24	3.4	309	324	3.8	1.7	2.3	2.3	2.5	3.2
14	9.6	2.8	10	3.4	311	324	3.4	1.7	2.3	2.1	2.5	3.1
15	32	2.8	3.8	3.1	320	151	3.3	1.7	2.2	2.0	2.5	3.2
16	7.4	2.8	3.4	3.6	328	10	3.3	1.8	2.2	2.0	2.4	3.2
17	4.2	6.0	3.2	4.8	336	6.5	3.2	1.5	2.3	2.1	2.6	3.1
18	4.5	6.9	4.6	2.6	328	4.7	3.1	1.8	2.3	135	3.2	3.0
19	3.3	74	3.5	2.5	327	77	2.6	2.0	2.2	320	3.5	3.2
20	3.4	6.5	3.3	2.5	327	320	2.8	2.0	2.0	330	2.8	3.5
21	3.9	20	3.2	11	327	325	2.8	1.9	2.2	332	2.5	3.6
22	3.3	5.4	3.0	5.2	162	329	2.6	1.9	2.6	335	2.3	3.1
23	2.8	4.5	2.9	3.2	139	330	2.8	1.9	2.6	338	2.3	3.5
24	3.5	2.7	3.0	5.8	323	329	2.7	1.9	2.4	336	2.4	3.6
25	3.5	2.5	3.0	3.5	342	329	2.5	8.0	2.4	318	2.8	3.5
26	3.2	2.7	2.9	3.4	327	330	2.5	3.0	2.4	16	2.6	3.4
27	3.2	2.8	2.6	3.4	327	330	2.5	2.3	2.8	6.4	2.3	3.6
28	3.6	2.8	2.7	3.1	327	325	2.4	2.0	2.9	7.8	2.4	3.4
29	17	2.8	2.6	3.1	331	329	2.4	2.0	2.6	4.6	2.5	3.2
30	8.1	2.9	2.5	3.0	---	329	2.2	2.1	2.4	3.5	2.4	3.3
31	5.6	---	38	2.7	---	328	---	2.3	---	3.1	2.4	---
TOTAL	286.3	212.2	200.6	179.3	7364.7	8746.2	1759.5	73.2	79.7	2528.9	81.1	94.8
MEAN	9.24	7.07	6.47	5.78	254	282	58.7	2.36	2.66	81.6	2.62	3.16
MAX	46	74	38	26	342	332	329	8.6	6.3	338	3.5	3.6
MIN	2.8	2.5	2.5	2.5	2.7	4.7	2.2	1.5	2.0	2.0	2.3	2.4
AC-FT	568	421	398	356	14610	17350	3490	145	158	5020	161	188

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2000, BY WATER YEAR (WY)

MEAN	28.5	24.0	6.62	7.19	15.6	10.5	17.1	51.9	65.4	85.0	108	101
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1963 - 2000	
ANNUAL TOTAL	53239.9		21606.5			
ANNUAL MEAN	146		59.0		[a]43.5	
HIGHEST ANNUAL MEAN					145	1999
LOWEST ANNUAL MEAN					1.62	1964
HIGHEST DAILY MEAN	2640	Aug 8	342	Feb 25	6860	Jun 18 1969
LOWEST DAILY MEAN	2.4	Jan 15	1.5	May 11	.10	Jan 12 1963
ANNUAL SEVEN-DAY MINIMUM	2.7	Jan 1	1.7	May 11	.10	Apr 16 1963
INSTANTANEOUS PEAK FLOW					[b]219000	Sep 22 1941
INSTANTANEOUS PEAK STAGE					[c]29.30	Sep 22 1941
ANNUAL RUNOFF (AC-FT)	105600		42860		31550	
10 PERCENT EXCEEDS	409		325		121	
50 PERCENT EXCEEDS	4.5		3.3		2.8	
90 PERCENT EXCEEDS	2.8		2.3		1.7	

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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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)
OCT									
26...	1050	3.4	674	93	8.6	8.1	6380	16.5	12.5
APR									
10...	1300	4.8	673	104	8.8	8.0	11700	23.0	15.5
JUN									
06...	0725	5.5	675	76	6.2	8.0	4510	23.0	18.5
AUG									
08...	0915	2.8	671	80	5.7	8.0	7860	--	24.5

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)
OCT								
26...	490	102	56.9	6.9	22	1110	267	1690
APR								
10...	710	158	75.7	11.6	35	2170	344	3340
JUN								
06...	320	67.7	36.0	5.8	20	819	213	1190
AUG								
08...	550	116	62.2	8.8	27	1450	307	2200

DATE	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT								
26...	.7	11.3	445	3580	276	<50	67	99
APR								
10...	1.0	10.6	560	6530	394	E90	--	--
JUN								
06...	.7	8.3	287	2540	215	<30	--	--
AUG								
08...	1.1	11.7	465	4500	356	950	--	--

07227100 REVUELTO CREEK NEAR LOGAN, NM

LOCATION.--Lat 35°20'29", long 103°23'37", in SW$^1/_4$NW$^1/_4$ 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 fair except for estimated daily discharges, which are poor. Low flows supplemented by surface and ground-water return from irrigation in vicinity of Tucumcari. Several observations of water temperature were made during the year.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e11	e.14	e5.0	e2.6	5.7	.41	e46	57	e40	295	e24	12
2	e12	e.14	e5.4	e2.5	4.7	4.3	e27	80	e45	128	e14	14
3	e14	e.13	e9.8	e2.6	2.6	4.1	e7.5	e38	e55	253	e10	15
4	e17	e.10	e10	e2.6	2.6	3.0	e6.8	e30	e65	238	e9.2	17
5	e15	e.39	e20	e2.3	2.7	1.4	e6.1	e25	e155	33	e8.4	16
6	e11	e.93	e29	e2.1	2.2	1.1	e6.4	e19	279	19	e12	e13
7	e8.8	e1.1	23	e2.4	2.5	e1.1	e5.5	e23	e76	e10	e21	e10
8	e12	e2.0	20	e1.9	2.7	e.49	e1.2	e29	e31	e6.9	e25	e9.5
9	e22	e1.5	6.1	e2.0	2.8	e.45	e.54	e17	e20	e2.2	e14	e12
10	e26	e3.0	4.4	e2.5	e1.8	e.69	e.15	e8.8	e16	e.68	e15	e8.8
11	e12	e5.2	4.0	e2.8	e2.1	e.72	e.30	e4.9	e6.1	e2.7	e10	e10
12	e11	e4.6	e2.3	e2.6	e2.2	e.69	e2.5	e5.5	e3.7	e11	e7.0	9.1
13	e6.8	e5.0	e2.4	e2.4	e1.8	e.82	e1.5	e3.9	e2.8	e13	e5.0	9.9
14	e4.4	e4.0	e2.4	e2.3	e1.4	e.74	e2.2	e2.5	e4.4	e14	e5.4	3.9
15	e4.9	e5.0	e3.5	e2.2	e.94	e.98	e35	e1.8	e2.1	e12	e5.7	3.9
16	e3.0	e6.5	e3.4	e2.1	.85	e.77	e153	e5.5	e.22	e12	e6.0	2.5
17	e8.0	e5.7	e3.3	e2.0	.78	e.70	188	e6.1	e.15	e11	e5.9	1.2
18	e6.7	e4.6	e3.5	e2.1	.69	e.74	156	e4.4	e.08	e13	e5.6	5.7
19	e5.5	e4.0	e3.6	3.3	.93	e.97	121	7.3	e.10	e15	e5.9	e5.5
20	e3.9	e3.3	e4.0	6.7	1.1	e.95	102	16	e3.1	e16	e6.1	e4.0
21	e1.2	e3.1	e3.3	3.1	1.0	e.97	82	15	23	e18	e6.7	12
22	e.50	e3.2	e3.2	3.1	.65	e96	78	12	28	e20	e6.5	20
23	e1.2	e3.5	e3.0	3.3	.56	155	77	11	30	e13	e6.6	17
24	e1.2	e3.0	e3.2	3.7	.52	e36	75	10	20	e12	8.9	24
25	e.97	e3.1	e3.3	4.5	e.25	e14	73	269	6.3	e8.1	8.5	24
26	e.74	e3.0	e3.1	5.1	e.24	e12	74	178	4.5	e29	9.4	24
27	e.38	e3.4	e3.3	4.1	e.26	e4.4	68	117	226	e26	10	17
28	e.15	e3.4	e3.2	3.9	e.67	e1.5	67	e71	298	e20	10	18
29	e.13	e2.6	e3.1	4.2	e.35	e1.3	51	e43	117	e18	11	16
30	e.08	e4.4	e3.0	5.0	---	e1.8	54	e34	148	e20	9.2	12
31	e.18	---	e3.4	5.8	---	e2.1	---	e28	---	e18	10	---
TOTAL	221.73	90.03	200.2	97.8	47.59	350.19	1567.69	1172.7	1705.55	1307.58	312.0	367.0
MEAN	7.15	3.00	6.46	3.15	1.64	11.3	52.3	37.8	56.9	42.2	10.1	12.2
MAX	26	6.5	29	6.7	5.7	155	188	269	298	295	25	24
MIN	.08	.10	2.3	1.9	.24	.41	.15	1.8	.08	.68	5.0	1.2
AC-FT	440	179	397	194	94	695	3110	2330	3380	2590	619	728

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2000, BY WATER YEAR (WY)

MEAN	36.5	9.61	9.96	5.56	7.15	7.82	29.2	47.4	77.4	116	123	69.7
MAX	320	41.2	129	27.9	42.5	52.1	346	203	492	1203	575	515
(WY)	1961	1999	1960	1990	1983	1985	1970	1991	1960	1960	1981	1969
MIN	.000	.056	.001	.000	.000	.003	.32	.085	.89	.42	.93	1.72
(WY)	1965	1978	1976	1965	1965	1980	1981	1976	1990	1983	1978	1978

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1959 - 2000	
ANNUAL TOTAL	12346.25		7440.06			
ANNUAL MEAN	33.8		20.3		44.8	
HIGHEST ANNUAL MEAN					204	1960
LOWEST ANNUAL MEAN					4.72	1964
HIGHEST DAILY MEAN	1590	May 2	298	Jun 28	13800	Jul 9 1960
LOWEST DAILY MEAN	.00	Feb 19	.08	Oct 30	.00	Oct 20 1959
ANNUAL SEVEN-DAY MINIMUM	.00	Apr 5	.13	Oct 29	.00	Oct 20 1959
INSTANTANEOUS PEAK FLOW			1980	May 25	[a]26700	Jul 9 1960
INSTANTANEOUS PEAK STAGE			5.14	May 25	14.30	Jul 9 1960
INSTANTANEOUS LOW FLOW					.00	Oct 20 1959
ANNUAL RUNOFF (AC-FT)	24490		14760		32460	
10 PERCENT EXCEEDS	70		48		63	
50 PERCENT EXCEEDS	11		5.5		5.4	
90 PERCENT EXCEEDS	.34		.74		.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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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)
OCT									
26...	1240	29	673	106	9.6	8.5	1140	18.5	14.0
APR									
10...	1400	1.5	673	100	7.7	8.4	4250	28.0	21.0
JUN									
06...	0845	573	674	81	6.7	8.9	514	23.0	18.5
AUG									
08...	1030	2.0	671	111	8.0	8.4	1190	--	25.0

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)
OCT								
26...	320	68.3	36.4	4.8	3	121	205	48.2
APR								
10...	380	69.0	51.5	4.9	16	726	301	905
JUN								
06...	35	8.64	3.24	2.5	6	84.4	--	17.2
AUG								
08...	290	61.1	33.1	6.5	3	137	274	38.4

DATE	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT								
26...	.5	8.0	334	744	139	<10	75	99
APR								
10...	.8	9.4	505	2450	448	<30	--	--
JUN								
06...	.3	6.9	103	--	140	<10	--	--
AUG								
08...	.5	8.0	381	830	169	<10	--	--

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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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)
APR									
26...	1230	28	675	75	7.7	8.3	5890	32.5	7.7
MAY									
17...	1215	11	675	99	7.8	8.4	6550	26.0	20.0
JUN									
05...	1230	10	675	99	6.7	8.4	5500	31.0	28.0
AUG									
07...	1430	8.4	673	115	7.4	8.3	7350	32.0	30.5

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)
APR								
26...	510	104	60.3	7.9	19	996	251	1490
MAY								
17...	520	102	65.5	8.4	22	1150	251	1670
JUN								
05...	--	--	--	--	--	--	--	--
AUG								
07...	500	95.1	63.8	9.6	26	1360	217	2090

DATE	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, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
APR								
26...	.7	10.2	514	3330	285	<50	352	47
MAY								
17...	.6	10.3	516	3670	310	<30	--	--
JUN								
05...	--	--	--	--	--	--	--	--
AUG								
07...	.8	12.7	458	4210	365	<50	--	--

08251500 RIO GRANDE NEAR LOBATOS, CO

LOCATION.--Lat 37°04'43", long 105°45'23", in NE$^1/_4$NW$^1/_4$ 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	640	435	491	e320	e340	407	162	323	254	76	16	8.5
2	627	457	460	e310	e390	394	200	302	199	58	15	8.6
3	578	457	e410	e310	e430	383	224	244	194	51	15	10
4	555	413	e410	e300	e430	385	257	236	198	53	15	13
5	524	362	e390	e310	e430	382	272	215	160	51	15	13
6	510	340	e300	e280	435	380	229	196	141	41	13	13
7	508	326	e310	e280	415	394	187	259	121	38	12	11
8	523	321	e300	e280	405	395	164	267	153	35	12	8.8
9	534	309	e270	e290	385	375	171	221	151	29	10	11
10	536	348	e310	e300	425	299	172	196	132	27	9.9	9.9
11	490	454	e320	e310	410	265	178	195	115	25	9.8	8.4
12	439	459	e310	e320	380	252	191	165	120	24	9.7	9.8
13	403	444	e310	e330	380	234	194	156	122	23	9.5	12
14	401	439	e300	e340	380	226	175	208	118	23	8.6	9.4
15	398	429	e260	e350	373	209	164	186	102	23	9.1	8.6
16	410	467	e290	e360	388	177	174	158	83	22	7.8	12
17	393	494	e320	e380	389	185	176	147	77	24	7.0	15
18	408	497	e340	e390	391	174	164	145	72	25	7.8	14
19	473	440	e330	e410	380	168	138	187	74	24	13	16
20	493	431	e340	e430	363	168	132	169	93	23	13	15
21	472	425	e330	e420	362	145	160	157	89	28	8.7	14
22	398	402	e320	e410	373	169	203	160	92	27	8.9	13
23	376	412	e330	e390	390	177	172	169	74	24	8.0	15
24	381	411	e320	e400	387	170	172	182	59	23	12	12
25	376	e425	e320	e400	396	152	172	189	68	22	16	10
26	379	407	e320	e400	387	150	200	191	67	24	13	13
27	384	404	e310	e400	362	145	251	180	87	26	9.3	21
28	390	411	e310	e440	366	144	231	234	88	26	11	31
29	410	457	e320	e420	394	138	228	194	92	20	10	28
30	391	485	e310	e390	---	128	277	204	85	16	9.7	23
31	397	---	e310	e330	---	129	---	243	---	16	9.2	---
TOTAL	14197	12561	10271	11000	11336	7499	5790	6278	3480	947	344.0	407.0
MEAN	458	419	331	355	391	242	193	203	116	30.5	11.1	13.6
MAX	640	497	491	440	435	407	277	323	254	76	16	31
MIN	376	309	260	280	340	128	132	145	59	16	7.0	8.4
AC-FT	28160	24910	20370	21820	22480	14870	11480	12450	6900	1880	682	807

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2000, BY WATER YEAR (WY)

MEAN	190	318	286	266	317	418	520	1107	1230	439	172	137
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1931 - 2000	
ANNUAL TOTAL	234133		84110.0			
ANNUAL MEAN	641		230		[a]450	
HIGHEST ANNUAL MEAN					1264	1987
LOWEST ANNUAL MEAN					70.9	1964
HIGHEST DAILY MEAN	2230	Jun 20	640	Oct 1	[b]9110	Jun 22 1949
LOWEST DAILY MEAN	80	Apr 16	7.0	Aug 17	[c].00	Jul 16 1950
ANNUAL SEVEN-DAY MINIMUM	85	Apr 11	8.5	Aug 12	.00	Jul 16 1950
INSTANTANEOUS PEAK FLOW			650	Oct 1	[d]11600	May 8 1952
INSTANTANEOUS PEAK STAGE			[f]2.44	Oct 1	8.76	May 8 1952
ANNUAL RUNOFF (AC-FT)	464400		166800		326100	
10 PERCENT EXCEEDS	1320		430		970	
50 PERCENT EXCEEDS	439		222		246	
90 PERCENT EXCEEDS	212		13		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.
f Maximum gage height, 4.08 ft, Feb 1, backwater from ice.

08251500 RIO GRANDE NEAR LOBATOS, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1969 to September 1993 (also see REMARKS). February 1996 to current year.

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

REMARKS.--Periodic water-quality data available, Sept. 1969 to Sept. 1993, under the National Stream-Quality Accounting Network (NASQAN), and Apr. 1993 to Sept. 1996, under the Rio Grande National Water-Quality Assessment Program.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,040 microsiemens, Sept. 17-18, 1977; minimum, 89 microsiemens, May 9, 1979.
WATER TEMPERATURE: Maximum, 30.0°C, July 17, 1977; minimum, 0.0°C, many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)
OCT											
15...	1115	420	241	8.4	11.0	8.5	72	21.7	4.38	18.9	3.6
FEB											
24...	1415	385	250	8.3	4.1	10.0	79	24.1	4.65	19.1	3.9
MAY											
24...	1415	195	635	8.6	22.4	7.9	170	50.8	11.4	65.4	9.1
JUN											
23...	1045	73	396	8.8	17.8	9.1	110	31.1	6.96	41.1	5.7
JUL											
27...	1130	27	464	8.9	21.5	9.3	110	29.4	8.02	57.3	7.1
AUG											
24...	1100	13	449	8.8	21.0	8.4	92	24.2	7.76	55.3	6.8

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	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)
OCT										
15...	--	--	--	24.0	--	<.010	<.050	<.020	.29	.13
FEB										
24...	31.6	5.2	.3	30.4	172	<.010	.243	<.020	.43	.14
MAY										
24...	134	14.9	.8	24.9	431	<.010	<.050	<.020	.74	.57
JUN										
23...	54.7	9.6	.5	21.2	264	<.010	<.050	<.020	.65	.30
JUL										
27...	61.3	12.8	.7	19.2	301	<.010	<.050	<.020	.71	.35
AUG										
24...	65.6	12.9	1.0	9.3	276	<.010	<.050	<.020	.61	.37

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)
OCT										
15...	.068	.043	.040	1	<1	E1.5	23	<1	<1.0	<.8
FEB										
24...	.126	.048	.036	15	<1	2.8	28	<1	<1.0	<1.0
MAY										
24...	.133	.073	.053	15	<1	3.2	50	<1	<1.0	<.8
JUN										
23...	.123	.030	.021	17	<1	4.0	28	<1	<1.0	<.8
JUL										
27...	.094	.014	<.010	7	<1	4.5	40	<1	<1.0	<.8
AUG										
24...	.061	.011	<.010	--	--	--	--	--	--	--

08251500 RIO GRANDE NEAR LOBATOS, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT										
15...	<1	<1	30	<1	12	1	<1	<2.4	<1	<1
FEB										
24...	<1	<1	50	<1	30	2	<1	<2.4	<1	2
MAY										
24...	<1	2	60	<1	76	5	1	<2.4	<1	3
JUN										
23...	<1	<1	20	<1	23	4	<1	<2.4	<1	3
JUL										
27...	<1	1	10	<1	19	7	<1	<2.4	<1	2
AUG										
24...	--	--	<10	--	7	--	--	--	--	--

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 estimated daily discharges, which are poor. 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, 51 ft^3/s, at 1100 hours Apr. 4, gage height 2.81 ft; minimum daily discharge 1.7 ft^3/s, Sept. 14, 15, 19, 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	e4.2	---	---	---	---	---	---	18	7.3	2.7	2.3	2.3
2	e4.2	---	---	---	---	---	---	17	7.7	2.6	2.4	2.1
3	e4.2	---	---	---	---	---	---	19	7.3	2.8	2.4	2.1
4	e4.1	---	---	---	---	---	---	22	6.5	2.3	2.7	1.9
5	e4.1	---	---	---	---	---	26	23	6.0	2.1	3.9	1.9
6	e4.2	---	---	---	---	---	19	21	5.4	2.3	3.1	1.8
7	---	---	---	---	---	---	20	19	5.4	4.1	2.8	2.0
8	---	---	---	---	---	---	19	20	5.4	3.4	2.5	2.3
9	---	---	---	---	---	---	21	18	4.8	2.7	2.3	3.1
10	---	---	---	---	---	---	14	17	4.2	2.9	2.4	2.1
11	---	---	---	---	---	---	8.4	17	3.9	5.3	2.6	1.9
12	---	---	---	---	---	---	12	15	3.5	3.3	2.7	1.8
13	---	---	---	---	---	---	15	14	3.1	2.9	2.8	1.8
14	---	---	---	---	---	---	16	13	3.1	3.3	2.6	1.7
15	---	---	---	---	---	---	11	12	2.9	3.2	3.0	1.7
16	---	---	---	---	---	---	12	11	2.8	8.4	2.5	1.8
17	---	---	---	---	---	---	13	11	2.8	8.7	2.6	1.8
18	---	---	---	---	---	---	15	9.8	2.9	4.0	3.6	1.8
19	---	---	---	---	---	---	13	12	4.2	3.1	3.4	1.7
20	---	---	---	---	---	---	12	13	3.0	2.6	2.7	1.7
21	---	---	---	---	---	---	12	11	2.6	2.3	2.7	1.9
22	---	---	---	---	---	---	12	9.6	2.6	2.3	3.2	2.7
23	---	---	---	---	---	---	15	9.5	2.3	2.4	2.9	1.9
24	---	---	---	---	---	---	16	10	2.3	2.3	2.6	2.0
25	---	---	---	---	---	---	15	11	2.3	2.2	4.1	2.0
26	---	---	---	---	---	---	16	11	2.5	3.8	4.2	1.9
27	---	---	---	---	---	---	19	9.5	9.0	4.0	2.7	2.0
28	---	---	---	---	---	---	22	8.6	5.8	3.2	2.7	2.0
29	---	---	---	---	---	---	22	8.2	3.4	2.9	2.6	2.0
30	---	---	---	---	---	---	23	7.8	3.5	2.9	3.3	2.2
31	---	---	---	---	---	---	---	7.5	---	2.6	2.5	---
TOTAL	25.0	---	---	---	---	---	418.4	425.5	128.5	103.6	88.8	59.9
MEAN	4.17	---	---	---	---	---	16.1	13.7	4.28	3.34	2.86	2.00
MAX	4.2	---	---	---	---	---	26	23	9.0	8.7	4.2	3.1
MIN	4.1	---	---	---	---	---	8.4	7.5	2.3	2.1	2.3	1.7
AC-FT	50	---	---	---	---	---	830	844	255	205	176	119

CAL YR 1999 TOTAL 4086.9 MEAN 20.9 MAX 88 MIN 4.1 AC-FT 8110
WTR YR 2000 TOTAL 1249.7 MEAN 6.76 MAX 26 MIN 1.7 AC-FT 2480

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 Global Positioning System (GPS). 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 fair except for estimated daily discharges, which are poor. Diversion 3.5 mi upstream for irrigation of about 1,300 acres, part of which is in Costilla Creek basin. Several observations of water temperature were made during the year.

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, 51 ft^3/s, at 1700 hours July 16, gage height 3.84 ft; minimum daily discharge 3.9 ft^3/s, Sept. 28, 30.

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	6.8	---	---	---	---	---	---	15	18	11	6.5	5.0
2	6.7	---	---	---	---	---	---	13	19	11	6.4	4.7
3	6.6	---	---	---	---	---	---	15	18	11	6.3	4.6
4	6.4	---	---	---	---	---	---	19	18	9.6	6.5	4.5
5	6.4	---	---	---	---	---	10	22	17	9.3	6.2	4.4
6	6.6	---	---	---	---	---	8.2	22	16	9.3	6.2	4.3
7	---	---	---	---	---	---	7.8	21	16	11	6.0	4.6
8	---	---	---	---	---	---	6.1	22	15	9.6	5.3	4.9
9	---	---	---	---	---	---	7.5	19	15	8.7	5.0	5.8
10	---	---	---	---	---	---	6.1	21	14	8.7	5.2	4.7
11	---	---	---	---	---	---	5.3	22	13	13	5.2	4.6
12	---	---	---	---	---	---	7.6	20	12	9.1	5.3	4.5
13	---	---	---	---	---	---	6.7	18	12	8.6	5.3	4.5
14	---	---	---	---	---	---	7.2	17	11	8.4	5.4	4.4
15	---	---	---	---	---	---	6.0	16	11	8.0	5.7	4.3
16	---	---	---	---	---	---	6.8	15	11	18	5.2	4.4
17	---	---	---	---	---	---	6.4	15	10	13	5.1	4.4
18	---	---	---	---	---	---	7.5	14	11	9.2	6.5	4.3
19	---	---	---	---	---	---	7.1	15	12	8.2	6.3	4.2
20	---	---	---	---	---	---	7.7	15	10	7.8	5.2	4.2
21	---	---	---	---	---	---	7.1	14	9.8	7.5	5.1	4.8
22	---	---	---	---	---	---	7.3	14	9.8	7.2	5.6	5.2
23	---	---	---	---	---	---	10	16	9.6	7.0	5.5	4.1
24	---	---	---	---	---	---	8.7	19	9.4	6.8	5.4	4.0
25	---	---	---	---	---	---	8.5	21	9.1	6.7	5.5	4.1
26	---	---	---	---	---	---	9.6	21	9.4	10	5.2	4.0
27	---	---	---	---	---	---	12	20	17	9.4	5.1	4.0
28	---	---	---	---	---	---	14	19	13	7.9	5.1	3.9
29	---	---	---	---	---	---	15	20	11	7.5	5.2	4.0
30	---	---	---	---	---	---	16	20	11	7.1	5.1	3.9
31	---	---	---	---	---	---	---	18	---	6.9	5.1	---
TOTAL	---	---	---	---	---	---	---	558	388.1	286.5	172.7	133.3
MEAN	---	---	---	---	---	---	---	18.0	12.9	9.24	5.57	4.44
MAX	---	---	---	---	---	---	---	22	19	18	6.5	5.8
MIN	---	---	---	---	---	---	---	13	9.1	6.7	5.0	3.9
AC-FT	---	---	---	---	---	---	---	1110	770	568	343	264

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 Global Positioning System (GPS). Prior to June 27, 1940, water-stage recorder and wooden control at datum 0.99 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor.

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, 6.2 ft^3/s, July 16, gage height 0.85 (from extreme indicator); minimum daily 0.73 ft^3/s, Apr. 5, Sept 28, 30.

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	e1.2	---	---	---	---	---	---	1.7	e3.6	e1.5	1.3	1.0
2	e1.1	---	---	---	---	---	---	1.8	e4.4	e1.3	1.3	1.0
3	e1.2	---	---	---	---	---	---	1.9	e4.2	e1.4	1.3	.98
4	e1.2	---	---	---	---	---	---	2.0	e3.9	e1.3	1.3	.96
5	e1.1	---	---	---	---	---	.73	e2.3	e3.7	e1.2	1.2	.94
6	e1.2	---	---	---	---	---	.75	e2.5	e3.4	e1.3	1.3	.92
7	---	---	---	---	---	---	.77	e2.6	e3.3	e1.4	1.2	.93
8	---	---	---	---	---	---	.77	e2.7	e3.2	1.3	1.1	.95
9	---	---	---	---	---	---	.86	2.6	e3.0	1.2	1.1	1.1
10	---	---	---	---	---	---	.87	3.2	e2.8	1.2	1.2	.90
11	---	---	---	---	---	---	.86	3.6	e2.7	1.5	1.1	.88
12	---	---	---	---	---	---	.90	3.4	e2.6	1.4	1.2	.85
13	---	---	---	---	---	---	.96	3.3	e2.5	1.4	1.1	.81
14	---	---	---	---	---	---	1.1	3.3	e2.4	1.5	1.3	.79
15	---	---	---	---	---	---	1.0	3.4	e2.3	1.5	1.2	.78
16	---	---	---	---	---	---	.97	3.4	e2.2	e2.8	1.1	.78
17	---	---	---	---	---	---	1.1	3.4	e2.2	e2.2	1.2	.77
18	---	---	---	---	---	---	1.1	3.2	e2.3	e1.7	1.4	.75
19	---	---	---	---	---	---	1.1	3.3	e2.5	1.6	1.4	.74
20	---	---	---	---	---	---	1.1	e3.3	e2.3	1.6	1.2	.76
21	---	---	---	---	---	---	1.2	e3.1	e2.1	1.5	1.2	.90
22	---	---	---	---	---	---	1.2	2.9	e2.0	1.5	1.2	.84
23	---	---	---	---	---	---	1.3	e3.0	e1.9	1.4	1.2	.75
24	---	---	---	---	---	---	1.3	e3.2	e1.9	1.4	1.1	.76
25	---	---	---	---	---	---	1.3	e3.7	e1.8	1.5	1.2	.76
26	---	---	---	---	---	---	1.4	e4.1	e2.0	e1.8	1.1	.74
27	---	---	---	---	---	---	1.5	e4.0	e2.5	e1.7	1.1	.74
28	---	---	---	---	---	---	1.5	e3.9	e1.8	e1.6	1.1	.73
29	---	---	---	---	---	---	1.6	e3.8	e1.9	1.5	1.1	.75
30	---	---	---	---	---	---	1.7	e3.7	e1.7	1.4	1.1	.73
31	---	---	---	---	---	---	---	e3.5	---	1.4	1.0	---
TOTAL	---	---	---	---	---	---	---	95.8	79.1	47.0	36.9	25.29
MEAN	---	---	---	---	---	---	---	3.09	2.64	1.52	1.19	.84
MAX	---	---	---	---	---	---	---	4.1	4.4	2.8	1.4	1.1
MIN	---	---	---	---	---	---	---	1.7	1.7	1.2	1.0	.73
AC-FT	---	---	---	---	---	---	---	190	157	93	73	50

e Estimated

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 estimated periods 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. Satellite telemeter at station.

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, 16,000 acre-ft, May 7-14, gage height, 106.60 ft; minimum contents, 2,630 acre-ft, Sept. 29, gage height, 59.19 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12200	12400	13000	13500	13900	14400	15100	15600	13800	10500	7420	4780
2	12200	12500	13000	13500	14000	14400	15200	15600	13800	10400	7230	4780
3	12200	12500	13000	13500	14000	14500	15200	15700	13800	10300	7050	4730
4	12200	12500	13000	13500	14000	14500	15200	15700	13700	10300	6980	4610
5	12200	12500	13100	13500	14000	14500	15200	15800	13600	10200	6980	4490
6	12200	12500	13100	13500	14000	14500	15200	15900	13400	10100	6930	4390
7	12200	12600	13100	13600	14000	14600	15200	16000	13200	10100	6750	4310
8	12200	12600	13100	13600	14000	14500	15200	16000	13000	10100	6570	4280
9	12200	12600	13100	13600	14100	14600	15300	16000	13000	10000	6400	4290
10	12200	12600	13100	13600	14100	14600	15300	16000	13000	9840	6250	4250
11	e12200	12600	13200	13600	14100	14600	15200	16000	12900	9650	6200	4160
12	e12200	12700	13200	13600	14100	14600	15200	16000	12700	9480	6200	4070
13	e12200	12700	13200	13600	14100	14600	15200	16000	12500	9310	6170	3990
14	e12200	12700	13200	13600	14100	14700	15200	16000	12300	9250	6060	3910
15	e12200	12700	13200	13700	14100	14700	15200	15900	12200	9250	5950	3880
16	e12200	12700	13200	13700	14200	14700	15100	15800	12100	9240	5850	3890
17	e12200	12800	13300	13700	14200	14700	15100	15600	12100	9070	5750	3830
18	e12200	12800	13300	13700	14200	14700	15200	15500	12000	8890	5740	3680
19	e12200	12800	13300	13700	14200	14800	15100	15400	11800	8720	5750	3540
20	e12200	12800	13300	13700	14200	14800	15100	15400	11600	8560	5710	3390
21	e12200	12800	13300	13800	14200	14800	15100	15400	11500	8490	5590	3260
22	12200	12900	13300	13800	14300	14900	15200	15200	11300	8480	5480	3210
23	12200	12900	13300	13800	14300	14900	15200	15000	11200	8430	5360	3200
24	12200	12900	13400	13800	14300	14900	15200	14900	11200	8270	5240	3160
25	12300	12900	13400	13800	14300	14900	15200	14700	11100	8130	5200	3040
26	12300	12900	13400	13800	14300	14900	15200	14600	11000	8020	5210	2930
27	12300	12900	13400	13900	14400	15000	15300	14600	10800	7880	5180	2810
28	12300	12900	13400	13900	14400	15000	15300	14500	10700	7840	5070	2690
29	12400	13000	13400	13900	14400	15100	15400	14400	10500	7830	4980	2630
30	12400	13000	13400	13900	---	15100	15500	14200	10500	7780	4900	2640
31	12400	---	13500	13900	---	15100	---	14000	---	7600	4820	---
MAX	12400	13000	13500	13900	14400	15100	15500	16000	13800	10500	7420	4780
MIN	12200	12400	13000	13500	13900	14400	15100	14000	10500	7600	4820	2630
(+)	97.36	98.94	100.18	101.42	102.62	104.46	105.43	101.65	91.79	82.29	70.90	59.27
(++)	+200	+600	+500	+400	+500	+700	+400	-1500	-3500	-2900	-2780	-2180

CAL YR 1999 MAX 16100 MIN 5400 (++) +8110
WTR YR 2000 MAX 16000 MIN 2630 (++) -9560

e Estimated

(+) Gage height, 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 Global Positioning System (GPS). Prior to Nov. 7, 1989, at site 500 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. 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, 137 ft^3/s, May 22; minimum daily, 1.6 ft^3/s, Sept. 30.

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	13	---	---	---	---	---	---	7.5	129	16	111	25
2	14	---	---	---	---	---	---	7.6	65	35	111	7.1
3	14	---	---	---	---	---	---	7.7	29	58	111	26
4	13	---	---	---	---	---	e2.2	7.7	61	57	51	70
5	13	---	---	---	---	---	12	7.7	129	54	10	65
6	e14	---	---	---	---	---	20	11	129	51	39	55
7	---	---	---	---	---	---	20	18	125	28	109	47
8	---	---	---	---	---	---	20	26	118	13	105	21
9	---	---	---	---	---	---	20	33	56	48	100	4.8
10	---	---	---	---	---	---	20	35	25	125	93	22
11	---	---	---	---	---	---	23	36	50	120	42	52
12	---	---	---	---	---	---	28	35	117	111	7.8	46
13	---	---	---	---	---	---	28	34	114	108	27	43
14	---	---	---	---	---	---	28	33	112	51	68	43
15	---	---	---	---	---	---	28	59	112	11	67	20
16	---	---	---	---	---	---	28	117	55	39	59	4.8
17	---	---	---	---	---	---	25	108	21	116	55	31
18	---	---	---	---	---	---	17	100	57	112	26	81
19	---	---	---	---	---	---	17	58	133	103	6.9	80
20	---	---	---	---	---	---	17	26	121	99	28	78
21	---	---	---	---	---	---	17	64	117	47	74	76
22	---	---	---	---	---	---	17	137	116	12	74	34
23	---	---	---	---	---	---	17	125	57	38	72	6.5
24	---	---	---	---	---	---	17	120	15	90	70	26
25	---	---	---	---	---	---	17	120	45	87	35	64
26	---	---	---	---	---	---	14	70	112	84	7.8	64
27	---	---	---	---	---	---	7.5	40	105	83	23	63
28	---	---	---	---	---	---	7.5	70	e106	41	59	63
29	---	---	---	---	---	---	7.5	135	e107	12	55	42
30	---	---	---	---	---	---	7.7	133	55	39	51	1.6
31	---	---	---	---	---	---	---	129	---	109	50	---
TOTAL	---	---	---	---	---	---	---	1910.2	2593	1997	1797.5	1261.8
MEAN	---	---	---	---	---	---	---	61.6	86.4	64.4	58.0	42.1
MAX	---	---	---	---	---	---	---	137	133	125	111	81
MIN	---	---	---	---	---	---	---	7.5	15	11	6.9	1.6
AC-FT	---	---	---	---	---	---	---	3790	5140	3960	3570	2500

e Estimated

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 Global Positioning System (GPS). Prior to June 18, 1944, at site 200 ft downstream at different datum. June 18, 1944 to Sept. 30, 1964, at site 0.4 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Costilla Reservoir (station 08253900) 19 mi upstream. Diversions for irrigation of about 2,000 acres upstream from station. Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred in 1886, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	16	e12	e10	e13	11	18	57	131	36	97	50
2	30	15	e11	e9.8	e12	12	18	56	115	31	100	18
3	29	14	e9.0	e8.8	e12	12	21	57	55	64	103	15
4	29	13	e8.0	e8.4	e11	12	21	60	49	60	87	59
5	29	14	e7.6	e8.6	e11	13	34	62	101	60	23	67
6	29	14	e8.2	e8.4	e12	14	67	59	121	56	21	61
7	33	14	e9.2	e8.2	e11	14	64	60	121	51	96	54
8	32	14	e9.6	e8.8	e11	12	61	64	120	28	101	46
9	29	14	e8.8	e8.8	11	13	55	71	102	24	98	19
10	27	12	e9.0	e9.2	11	12	60	69	48	103	90	14
11	27	13	e9.2	e10	11	10	56	70	39	114	78	47
12	26	13	e8.8	e11	11	12	57	68	96	108	25	50
13	26	12	e8.4	e10	12	12	65	65	101	99	24	48
14	28	11	e8.0	e9.6	12	12	66	65	99	88	63	48
15	27	11	e7.6	e9.8	12	14	66	65	101	36	72	43
16	27	11	e8.4	e10	12	15	60	124	82	36	67	14
17	28	11	e8.8	10	12	14	63	126	32	118	62	12
18	30	12	e9.2	11	12	14	56	117	29	137	62	69
19	34	9.7	e8.8	12	11	14	57	104	112	113	36	77
20	32	11	e7.8	16	12	15	52	56	114	101	26	76
21	31	13	e7.6	13	12	14	55	52	109	81	74	76
22	31	11	e7.2	12	11	14	55	128	108	27	80	67
23	22	e10	e7.8	e13	12	13	54	129	92	24	79	18
24	20	e10	e8.2	e14	12	15	57	123	31	86	77	15
25	19	e11	e9.6	13	9.4	16	56	122	27	93	67	54
26	19	e11	e10	12	11	19	58	110	95	90	27	60
27	19	e10	e9.8	11	15	24	55	62	118	93	22	61
28	18	e11	e10	14	12	34	57	58	109	78	55	61
29	18	12	e11	e13	12	24	58	104	108	30	64	62
30	14	12	e10	e13	---	25	58	129	93	25	58	19
31	15	---	e9.6	e14	---	21	---	131	---	87	56	---
TOTAL	809	365.7	278.2	340.4	338.4	476	1580	2623	2658	2177	1990	1380
MEAN	26.1	12.2	8.97	11.0	11.7	15.4	52.7	84.6	88.6	70.2	64.2	46.0
MAX	34	16	12	16	15	34	67	131	131	137	103	77
MIN	14	9.7	7.2	8.2	9.4	10	18	52	27	24	21	12
AC-FT	1600	725	552	675	671	944	3130	5200	5270	4320	3950	2740

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2000, BY WATER YEAR (WY)

MEAN	15.7	11.8	8.69	7.92	9.46	18.2	50.2	120	117	85.6	70.0	36.3
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1942 - 2000	
ANNUAL TOTAL	19841.0		15015.7			
ANNUAL MEAN	54.4		41.0		46.4	
HIGHEST ANNUAL MEAN					134	1942
LOWEST ANNUAL MEAN					16.5	1964
HIGHEST DAILY MEAN	215	May 10	137	Jul 18	1000	May 11 1942
LOWEST DAILY MEAN	3.0	Feb 10	7.2	Dec 22	1.0	Dec 1 1958
ANNUAL SEVEN-DAY MINIMUM	3.4	Feb 5	8.1	Dec 18	2.5	Dec 5 1964
INSTANTANEOUS PEAK FLOW			175	Jul 18	1150	May 11 1942
INSTANTANEOUS PEAK STAGE			3.08	Jul 18	[a]5.37	May 11 1942
INSTANTANEOUS LOW FLOW			1.7	Mar 11	.34	Mar 15 1969
ANNUAL RUNOFF (AC-FT)	39350		29780		33580	
10 PERCENT EXCEEDS	118		101		118	
50 PERCENT EXCEEDS	27		26		19	
90 PERCENT EXCEEDS	7.7		9.8		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 Global Positioning System (GPS). Prior to Apr. 20, 1950, at site 0.4 mi downstream at different datum.

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

EXTREMES 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, 109 ft^3/s, at 1845 hours May 19, gage height, 3.73 ft; no flow at times.

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	6.7	---	---	---	---	---	---	13	.00	.00	.00	.00
2	13	---	---	---	---	---	---	9.0	.00	.00	.00	.00
3	14	---	---	---	---	---	---	8.4	.53	5.7	.00	.00
4	14	---	---	---	---	---	---	9.5	1.1	5.1	.00	.00
5	15	---	---	---	---	---	---	6.9	2.3	.00	.00	.00
6	17	---	---	---	---	---	24	5.4	3.4	.00	.00	.00
7	---	---	---	---	---	---	26	8.2	4.2	.00	1.3	.00
8	---	---	---	---	---	---	27	11	4.2	.00	.00	.00
9	---	---	---	---	---	---	18	12	.00	.00	.00	.00
10	---	---	---	---	---	---	26	8.6	.00	.81	.00	.00
11	---	---	---	---	---	---	23	9.1	.00	.56	.00	.00
12	---	---	---	---	---	---	23	8.0	2.9	.15	.00	.00
13	---	---	---	---	---	---	32	4.9	.00	.00	.15	.00
14	---	---	---	---	---	---	25	5.5	.00	.00	.63	.00
15	---	---	---	---	---	---	33	8.1	.00	.00	3.6	.00
16	---	---	---	---	---	---	37	27	.07	.00	.10	.00
17	---	---	---	---	---	---	32	22	.00	2.4	.00	.00
18	---	---	---	---	---	---	27	9.6	.00	17	.13	.62
19	---	---	---	---	---	---	30	25	e4.3	1.3	.00	.00
20	---	---	---	---	---	---	12	27	e3.4	.00	.00	.00
21	---	---	---	---	---	---	17	8.0	e2.6	.00	.63	.00
22	---	---	---	---	---	---	15	19	e3.6	.00	.00	.00
23	---	---	---	---	---	---	14	10	e3.4	.00	.00	.00
24	---	---	---	---	---	---	16	5.1	e.00	2.1	.00	.00
25	---	---	---	---	---	---	16	4.2	e.90	.00	12	.31
26	---	---	---	---	---	---	16	3.7	e4.3	.00	7.4	.00
27	---	---	---	---	---	---	12	4.2	e4.5	.00	.00	.00
28	---	---	---	---	---	---	15	6.4	e4.0	.00	.00	.00
29	---	---	---	---	---	---	16	6.0	e4.2	.00	.00	.00
30	---	---	---	---	---	---	18	6.1	3.9	.00	.00	2.8
31	---	---	---	---	---	---	---	3.4	---	.93	.00	---
TOTAL	---	---	---	---	---	---	---	314.3	57.80	36.05	25.94	3.73
MEAN	---	---	---	---	---	---	---	10.1	1.93	1.16	.84	.12
MAX	---	---	---	---	---	---	---	27	4.5	17	12	2.8
MIN	---	---	---	---	---	---	---	3.4	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	---	623	115	72	51	7.4

e Estimated

08263500 RIO GRANDE NEAR CERRO, NM

LOCATION.--Lat 36°44'24", long 105°40'59", in NW$^1/_4$NE$^1/_4$ 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 mi^2, approximately, including 2,940 mi^2 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 estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 620,000 acres in Colorado and 7,000 acres in New Mexico. Several observations of water temperature were made during year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	665	452	543	379	349	456	193	330	276	e94	59	56
2	659	488	535	376	365	468	218	371	291	e93	59	56
3	637	517	508	367	416	449	253	341	240	e90	58	56
4	608	495	441	357	464	441	277	299	238	e91	58	55
5	584	445	442	337	469	441	309	291	237	e92	57	55
6	559	401	415	352	464	433	309	265	208	94	58	57
7	549	382	330	319	468	442	268	252	192	88	57	57
8	556	370	342	319	460	445	240	305	175	83	57	57
9	561	364	320	325	458	444	221	312	197	79	56	57
10	586	349	302	338	486	404	228	266	e180	72	55	57
11	558	424	338	347	501	339	233	231	e150	69	55	56
12	514	509	353	357	467	308	237	227	e120	66	54	56
13	472	504	345	367	440	297	247	217	e130	65	54	56
14	443	492	334	375	421	281	246	209	e160	65	55	56
15	440	488	325	382	433	273	224	258	e140	65	55	56
16	439	487	297	396	444	255	217	235	e120	66	55	57
17	456	532	312	407	461	236	230	206	e110	67	54	56
18	443	554	351	432	452	241	227	195	e105	71	57	56
19	473	528	374	447	460	233	207	199	e103	67	56	58
20	530	485	361	470	441	225	192	241	e100	64	56	57
21	540	479	365	485	424	227	189	221	e97	63	56	57
22	496	464	353	477	426	205	216	209	e96	62	58	57
23	435	442	340	460	442	233	246	209	e95	66	57	57
24	421	452	356	399	454	236	229	220	e95	65	57	56
25	423	447	346	439	440	229	226	230	e94	63	56	56
26	419	418	342	547	439	211	228	236	e94	64	56	56
27	417	410	339	548	433	209	254	235	e93	62	59	56
28	431	454	341	535	410	203	293	228	e94	63	58	56
29	433	476	361	443	422	202	266	271	e97	65	57	62
30	451	527	371	376	---	197	268	233	e96	64	56	69
31	430	---	369	322	---	195	---	242	---	61	57	---
TOTAL	15628	13835	11451	12480	12809	9458	7191	7784	4423	2239	1752	1709
MEAN	504	461	369	403	442	305	240	251	147	72.2	56.5	57.0
MAX	665	554	543	548	501	468	309	371	291	94	59	69
MIN	417	349	297	319	349	195	189	195	93	61	54	55
AC-FT	31000	27440	22710	24750	25410	18760	14260	15440	8770	4440	3480	3390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY)

MEAN	223	361	306	302	361	475	538	945	1124	460	253	197
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1949 - 2000	
ANNUAL TOTAL	249320		100759			
ANNUAL MEAN	683		275		462	
HIGHEST ANNUAL MEAN					1275	1987
LOWEST ANNUAL MEAN					112	1964
HIGHEST DAILY MEAN	2150	Jun 20	665	Oct 1	9440	Jun 22 1949
LOWEST DAILY MEAN	130	Apr 17	[a]54	Aug 12	40	Sep 10 1977
ANNUAL SEVEN-DAY MINIMUM	134	Apr 17	55	Aug 11	42	Sep 5 1977
INSTANTANEOUS PEAK FLOW			673	Oct 1	9740	Jun 22 1949
INSTANTANEOUS PEAK STAGE			5.13	Oct 1	15.78	Jun 22 1949
INSTANTANEOUS LOW FLOW			54	Aug 16	40	Sep 10 1977
ANNUAL RUNOFF (AC-FT)	494500		199900		334500	
10 PERCENT EXCEEDS	1320		485		990	
50 PERCENT EXCEEDS	492		267		280	
90 PERCENT EXCEEDS	265		57		81	

e Estimated
a Also Aug. 13 and 17.

08265000 RED RIVER NEAR QUESTA, NM

LOCATION.--Lat 36°42'12", long 105°34'06", in NE$^1/_4$SE$^1/_4$ 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 estimated daily discharges, which are fair. Diversions for irrigation of a few hundred acres upstream from station. Figures of discharge do not include flow in South ditch which diverts from left bank 1,500 ft upstream and bypasses gage for irrigation and stock water downstream. January 1966 to December 1991 surface and ground-water diversions by Molybdenum Corp. of America (Molycorp) refinery 5.5 mi upstream bypass gage in tailings pipelines on left bank and discharge into settling pond 3 mi downstream. Effluent from this pond enters Red River as surface water and is included in discharge at Red River below Fish Hatchery, near Questa (station 08266820). Several observations of water temperature were made during year.

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	21	22	e11	e9.0	e13	14	18	46	33	16	9.2	15
2	21	18	e10	e11	e16	15	17	44	32	16	8.6	15
3	21	16	e11	e10	15	15	18	42	32	16	8.3	14
4	21	16	e11	e11	14	15	18	42	31	15	9.1	13
5	21	16	e10	e12	14	15	19	45	30	14	8.4	12
6	20	17	e10	e12	13	15	22	46	30	13	12	12
7	28	16	e11	e11	13	16	27	45	29	13	13	12
8	26	17	e12	e12	14	15	28	47	27	14	11	13
9	24	16	e11	e13	14	16	26	45	27	13	9.7	15
10	23	16	e11	e13	13	15	29	43	26	12	8.9	12
11	23	16	e9.4	e13	13	14	28	43	24	12	9.5	12
12	24	16	e9.0	14	13	15	24	42	23	12	11	12
13	23	17	e8.6	13	12	15	26	40	21	12	13	12
14	23	17	e9.0	13	13	16	28	37	20	13	11	11
15	23	16	e8.4	14	13	16	28	36	20	14	11	9.8
16	23	16	e8.6	14	13	16	23	35	18	14	11	11
17	24	16	e9.6	14	13	16	25	35	18	19	12	10
18	25	15	e9.8	13	13	16	26	32	18	25	20	10
19	26	12	e9.8	13	13	14	31	32	22	16	57	10
20	26	12	e9.0	13	13	16	27	31	19	13	35	9.9
21	25	13	e8.3	13	14	16	29	30	17	13	28	10
22	25	14	e8.2	12	14	16	31	29	17	13	25	10
23	25	12	e8.0	12	14	16	31	30	16	12	23	9.2
24	24	e11	e8.6	12	14	17	33	33	16	9.6	23	9.2
25	23	e10	e8.6	10	13	17	35	36	16	9.5	21	9.7
26	23	e11	e7.7	12	e12	17	37	38	15	11	19	9.6
27	23	e13	e8.0	13	e13	18	39	37	20	12	18	9.3
28	23	e14	e8.4	13	15	18	43	34	20	10	17	9.0
29	23	e14	e8.6	e12	15	19	45	34	19	10	17	9.1
30	21	e13	e8.2	e14	---	19	48	34	17	9.7	16	9.3
31	21	---	e9.4	e13	---	19	---	33	---	9.7	16	---
TOTAL	722	448	291.2	384.0	392	497	859	1176	673	411.5	511.7	335.1
MEAN	23.3	14.9	9.39	12.4	13.5	16.0	28.6	37.9	22.4	13.3	16.5	11.2
MAX	28	22	12	14	16	19	48	47	33	25	57	15
MIN	20	10	7.7	9.0	12	14	17	29	15	9.5	8.3	9.0
AC-FT	1430	889	578	762	778	986	1700	2330	1330	816	1010	665

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2000, BY WATER YEAR (WY)

MEAN	23.0	17.1	12.2	12.3	12.8	16.0	36.6	116	138	63.1	39.6	28.6
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1966 - 2000	
ANNUAL TOTAL	19064.2		6700.5			
ANNUAL MEAN	52.2		18.3		[a]43.1	
HIGHEST ANNUAL MEAN					87.6	1979
LOWEST ANNUAL MEAN					11.8	1971
HIGHEST DAILY MEAN	288	May 24	57	Aug 19	557	Jun 9 1979
LOWEST DAILY MEAN	7.7	Dec 26	7.7	Dec 26	2.5	Jan 6 1971
ANNUAL SEVEN-DAY MINIMUM	8.2	Dec 21	8.2	Dec 21	3.1	Jan 2 1973
INSTANTANEOUS PEAK FLOW			100	Aug 19	[b]886	May 25 1942
INSTANTANEOUS PEAK STAGE			2.77	Aug 19	5.80	Jun 8 1979
INSTANTANEOUS LOW FLOW			5.5	Aug 14	.60	Jan 21 1981
ANNUAL RUNOFF (AC-FT)	37810		13290		31200	
10 PERCENT EXCEEDS	169		32		108	
50 PERCENT EXCEEDS	23		15		22	
90 PERCENT EXCEEDS	12		9.7		8.2	

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 estensive 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 NW$^1/_4$NW$^1/_4$ 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 mi^2.

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 $^1/_4$ mile dowstream at datum 11.54 ft lower. Prior to Aug. 16, 1999, at site 250 ft upstream at datum 5.55 ft higher.

REMARKS.--Records good. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	51	43	41	41	39	43	65	55	42	34	38
2	51	50	41	41	36	40	41	61	52	38	32	35
3	50	48	42	39	40	39	42	59	55	38	32	33
4	50	47	41	33	42	40	41	59	55	38	33	33
5	50	47	36	38	41	41	42	61	54	37	33	33
6	50	46	36	38	41	40	44	62	53	37	34	31
7	55	46	39	36	41	41	48	62	53	38	38	33
8	54	46	40	39	41	41	50	58	53	37	33	34
9	52	45	37	41	42	40	47	61	54	35	32	34
10	52	44	38	42	42	40	50	61	53	35	32	35
11	52	45	39	43	40	36	50	61	52	36	32	34
12	53	45	37	43	40	40	46	58	51	38	32	34
13	51	46	36	41	40	41	49	55	49	40	34	32
14	51	47	37	42	41	41	51	54	48	41	37	30
15	51	46	32	42	40	41	52	55	47	42	36	31
16	52	44	33	43	38	42	49	57	47	38	35	31
17	54	42	36	43	39	40	49	58	47	41	34	28
18	54	41	37	41	37	41	51	57	49	52	38	27
19	55	38	37	41	36	37	56	58	50	47	81	28
20	54	39	36	41	37	41	52	65	47	40	60	29
21	54	40	37	41	38	41	54	63	46	38	51	30
22	54	41	35	41	39	41	56	56	47	37	45	33
23	54	39	35	39	38	40	57	50	47	36	44	34
24	55	38	37	37	39	41	60	55	45	34	42	34
25	55	35	38	40	37	41	66	59	42	34	41	33
26	55	39	38	41	34	41	68	61	41	36	39	e34
27	55	43	39	42	37	40	67	59	46	39	39	e33
28	55	44	39	41	40	40	68	62	46	36	37	e34
29	53	45	40	39	40	41	68	62	43	35	38	e32
30	51	45	39	32	---	44	68	58	43	35	39	e30
31	51	---	39	37	---	45	---	57	---	34	38	---
TOTAL	1635	1312	1169	1238	1137	1256	1585	1829	1470	1184	1205	970
MEAN	52.7	43.7	37.7	39.9	39.2	40.5	52.8	59.0	49.0	38.2	38.9	32.3
MAX	55	51	43	43	42	45	68	65	55	52	81	38
MIN	50	35	32	32	34	36	41	50	41	34	32	27
AC-FT	3240	2600	2320	2460	2260	2490	3140	3630	2920	2350	2390	1920

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2000, BY WATER YEAR (WY)

MEAN	53.7	48.3	43.4	44.1	44.2	48.0	77.0	193	211	103	70.1	59.8
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1978 - 2000		
ANNUAL TOTAL	28525		15990				
ANNUAL MEAN	78.2		43.7		83.2		
HIGHEST ANNUAL MEAN					129		1979
LOWEST ANNUAL MEAN					41.9		1981
HIGHEST DAILY MEAN	331	May 24	81	Aug 19	676	May 27	1979
LOWEST DAILY MEAN	32	Dec 15	27	Sep 18	26	Oct 10	1978
ANNUAL SEVEN-DAY MINIMUM	35	Dec 12	29	Sep 14	26	Dec 9	1978
INSTANTANEOUS PEAK FLOW			109	Aug 19	755	Jun 8	1979
INSTANTANEOUS PEAK STAGE			4.37	Aug 19	[a]5.30	Jun 8	1979
INSTANTANEOUS LOW FLOW			22	Aug 10	21	Dec 14	1986
ANNUAL RUNOFF (AC-FT)	56580		31720		60280		
10 PERCENT EXCEEDS	169		56		160		
50 PERCENT EXCEEDS	53		41		54		
90 PERCENT EXCEEDS	41		34		38		

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 estimated daily discharges, which are poor.

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	18	14	11	10	9.0	9.1	11	23	27	14	9.8	14
2	18	13	e10	9.9	e8.9	9.3	11	22	26	13	9.5	13
3	18	13	9.7	e9.6	9.0	9.2	11	23	27	13	9.5	13
4	17	13	9.5	e9.4	9.0	9.4	11	24	26	12	9.9	13
5	17	13	e9.8	e8.9	9.3	9.6	12	27	26	12	9.7	12
6	17	13	e9.8	e9.4	9.5	9.3	14	29	25	12	9.5	12
7	19	13	e9.4	e9.7	9.3	9.4	14	29	25	12	9.9	12
8	19	13	e9.6	e9.4	9.3	9.3	15	31	24	12	9.5	13
9	18	13	e9.9	9.2	9.5	9.3	14	29	24	e12	9.0	13
10	17	12	10	e9.4	9.3	9.1	16	30	23	e12	9.0	12
11	17	12	9.3	9.1	9.5	9.8	17	33	22	e12	8.6	11
12	16	13	e9.2	9.2	9.5	9.4	15	33	22	12	8.6	11
13	16	13	e9.0	9.1	9.4	9.3	16	31	21	12	9.3	11
14	16	12	e9.5	9.2	9.3	9.4	17	30	20	12	9.3	11
15	16	13	e10	9.1	9.5	9.7	18	30	20	11	9.4	11
16	16	12	e10	9.3	9.4	9.9	16	30	19	12	8.5	11
17	17	12	e9.9	9.5	9.4	9.8	16	30	19	13	9.7	10
18	16	12	10	9.7	9.1	9.8	17	29	18	11	16	10
19	17	10	e9.8	9.7	9.3	10	18	29	20	11	40	10
20	16	10	e9.6	9.5	9.1	9.8	17	28	18	11	21	10
21	16	11	9.2	9.3	9.1	9.6	17	27	17	11	17	10
22	16	9.9	e9.1	9.2	9.1	9.8	17	27	16	11	15	10
23	15	8.9	e8.9	8.8	9.0	9.9	17	29	16	11	15	9.9
24	15	8.4	e8.8	8.6	9.0	10	18	30	15	11	14	9.8
25	15	e9.0	e9.0	9.1	e8.9	11	18	30	14	11	13	10
26	15	e9.8	8.9	9.7	e8.6	11	18	29	15	11	13	9.9
27	14	e10	9.0	9.7	e8.9	12	20	28	17	11	13	9.7
28	14	e11	9.3	9.5	9.3	12	22	27	16	10	13	9.5
29	14	11	9.5	e8.8	9.1	12	24	27	15	10	14	9.5
30	13	11	9.6	e8.6	---	12	25	27	14	10	14	9.7
31	13	---	9.6	e9.0	---	11	---	27	---	10	14	---
TOTAL	501	349.0	295.9	288.6	266.6	310.2	492	878	607	358	390.7	331.0
MEAN	16.2	11.6	9.55	9.31	9.19	10.0	16.4	28.3	20.2	11.5	12.6	11.0
MAX	19	14	11	10	9.5	12	25	33	27	14	40	14
MIN	13	8.4	8.8	8.6	8.6	9.1	11	22	14	10	8.5	9.5
AC-FT	994	692	587	572	529	615	976	1740	1200	710	775	657

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2000, BY WATER YEAR (WY)

MEAN	18.5	15.0	12.1	10.8	10.7	14.3	33.9	95.4	113	48.6	29.1	22.3
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1935 - 2000	
ANNUAL TOTAL	10829.3		5068.0			
ANNUAL MEAN	29.7		13.8		35.4	
HIGHEST ANNUAL MEAN					69.9	1942
LOWEST ANNUAL MEAN					13.8	2000
HIGHEST DAILY MEAN	102	May 22	40	Aug 19	416	May 13 1941
LOWEST DAILY MEAN	8.0	Jan 27	8.4	Nov 24	3.0	Jan 21 1935
ANNUAL SEVEN-DAY MINIMUM	8.6	Jan 21	8.9	Jan 29	4.2	Jan 18 1935
INSTANTANEOUS PEAK FLOW			69	Aug 19	541	May 13 1941
INSTANTANEOUS PEAK STAGE			2.00	Aug 19	[a]4.89	Feb 2 1994
INSTANTANEOUS LOW FLOW			7.3	Mar 11	[b]1.0	Jan 27 1942
ANNUAL RUNOFF (AC-FT)	21480		10050		25640	
10 PERCENT EXCEEDS	81		24		85	
50 PERCENT EXCEEDS	16		11		18	
90 PERCENT EXCEEDS	9.2		9.1		9.8	

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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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)
APR									
12...	1235	14	585	98	9.6	8.1	203	9.0	5.0
JUN									
07...	1045	25	579	101	9.3	8.1	138	22.0	7.0

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	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)
APR									
12...	<.10	E.10	.03	<.020	.343	<.010	<.006	<.010	<.008
JUN									
07...	<.20	<.20	.01	<.010	.280	<.010	<.020	<.010	<.020

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 estimated daily discharges, which are poor. No diversions upstream from station. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	8.3	e7.4	e5.2	e5.8	6.1	10	29	10	6.1	4.7	5.4
2	8.0	8.1	7.8	e5.0	e5.6	6.6	9.8	26	10	5.8	4.6	5.2
3	8.0	8.0	6.4	e5.2	e5.2	6.3	9.8	24	10	6.0	4.5	5.1
4	7.9	7.9	e6.4	e4.8	e5.6	6.5	10	25	9.8	5.5	5.1	4.9
5	7.9	8.0	e6.2	e5.6	5.8	6.9	13	27	9.5	5.3	5.1	4.7
6	7.9	7.9	e5.8	e5.7	6.1	6.6	17	27	9.2	5.2	5.9	4.6
7	9.3	7.8	e5.8	e5.5	6.0	6.6	17	26	9.7	5.7	5.7	4.5
8	9.6	8.0	e6.4	e5.7	6.2	5.9	19	26	9.7	5.8	5.2	4.8
9	9.0	7.9	e6.2	e6.0	6.1	7.0	17	24	9.6	5.3	4.8	5.8
10	8.6	7.4	e6.4	e5.8	6.1	6.6	20	22	9.3	5.1	4.5	5.1
11	8.3	7.8	e6.6	e5.8	6.1	6.1	22	22	8.3	5.3	4.5	4.7
12	8.3	7.8	e6.4	e5.8	6.0	6.6	18	21	7.9	5.4	5.7	4.4
13	8.2	7.5	e6.0	e5.5	6.0	6.6	20	19	7.5	6.3	8.0	4.3
14	8.1	7.5	e6.2	e5.8	6.1	6.9	22	18	7.1	6.5	6.2	4.1
15	8.0	7.4	e5.7	e6.0	6.2	7.2	24	17	7.0	5.8	5.7	3.8
16	8.1	7.5	e5.8	e5.8	6.2	7.4	21	16	6.7	5.4	5.8	3.8
17	9.4	7.4	e6.3	e5.8	6.3	6.8	21	16	6.6	6.5	5.6	3.8
18	9.5	7.6	e6.5	e6.0	6.1	7.2	23	15	6.6	5.6	9.8	3.8
19	10	6.2	e6.1	e5.8	6.0	6.5	26	14	8.0	5.2	19	3.8
20	9.5	6.9	e5.8	e5.4	6.0	7.3	23	14	7.3	5.0	12	3.8
21	9.5	7.6	e6.2	e5.2	6.4	6.9	22	13	6.6	5.0	9.0	3.8
22	9.4	7.0	e5.4	e5.4	6.3	7.2	22	12	6.3	4.8	7.7	4.1
23	9.2	6.6	5.7	e5.4	6.1	7.1	22	12	6.3	4.7	7.1	4.0
24	9.1	6.5	e5.5	e5.4	6.3	7.8	23	12	6.1	4.7	8.0	3.8
25	8.9	e6.6	e5.2	e5.6	5.8	9.2	23	13	6.0	4.7	7.0	3.9
26	8.8	e6.4	e5.6	e5.8	e5.6	10	24	13	5.9	5.3	6.3	3.9
27	8.6	e6.6	e5.0	e5.6	e5.8	11	27	12	6.9	5.7	6.0	e3.9
28	8.6	e7.0	e4.8	e5.4	e6.2	12	31	12	7.7	5.8	5.9	e4.0
29	8.3	e7.0	e5.0	e5.4	6.4	12	33	11	6.8	5.2	6.2	e4.0
30	8.1	e6.8	e5.4	e5.0	---	12	34	11	6.5	5.6	6.3	e3.9
31	8.3	---	e5.6	e5.4	---	11	---	11	---	5.0	5.7	---
TOTAL	268.6	221.0	185.6	171.8	174.4	239.9	623.6	560	234.9	169.3	207.6	129.7
MEAN	8.66	7.37	5.99	5.54	6.01	7.74	20.8	18.1	7.83	5.46	6.70	4.32
MAX	10	8.3	7.8	6.0	6.4	12	34	29	10	6.5	19	5.8
MIN	7.9	6.2	4.8	4.8	5.2	5.9	9.8	11	5.9	4.7	4.5	3.8
AC-FT	533	438	368	341	346	476	1240	1110	466	336	412	257

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2000, BY WATER YEAR (WY)

MEAN	9.89	9.19	7.94	6.90	7.49	13.7	49.6	119	73.9	23.1	15.4	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1913 - 2000	
ANNUAL TOTAL	8417.6		3186.4			
ANNUAL MEAN	23.1		8.71		29.8	
HIGHEST ANNUAL MEAN					72.3	1979
LOWEST ANNUAL MEAN					7.74	1972
HIGHEST DAILY MEAN	154	May 10	34	Apr 30	926	May 26 1979
LOWEST DAILY MEAN	4.8	Dec 28	[a]3.8	Sep 15	2.0	Dec 3 1950
ANNUAL SEVEN-DAY MINIMUM	5.2	Dec 24	3.8	Sep 15	2.8	Jan 29 1990
INSTANTANEOUS PEAK FLOW			36	Apr 30	[b]1050	May 26 1979
INSTANTANEOUS PEAK STAGE			1.11	Apr 30	[c]3.90	May 14 1941
INSTANTANEOUS LOW FLOW			2.2	Dec 23	.69	Feb 27 1991
ANNUAL RUNOFF (AC-FT)	16700		6320		21590	
10 PERCENT EXCEEDS	64		18		71	
50 PERCENT EXCEEDS	10		6.5		11	
90 PERCENT EXCEEDS	6.9		4.9		5.8	

e Estimated
a May 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), October 1933 to December 1951, (annual maximum), water years 1952-62, October 1962 (monthly discharge only), November 1962 to current year. Monthly discharge only for some periods, published in WSP 1312. Fragmentary records for October 1915 to February 1916, published in WSP 438, are unreliable and should not be used. Published as "near Taos," 1910-16.

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	7.5	e5.4	e4.7	e4.1	e4.6	7.1	20	15	8.8	6.4	7.5
2	11	7.4	e5.0	e4.8	e4.3	e4.4	6.9	18	15	8.6	6.4	7.4
3	11	7.3	e5.2	e4.4	e4.7	e4.8	6.7	19	15	8.3	6.5	7.2
4	11	7.2	e5.0	e4.0	e4.4	e4.9	7.0	22	14	8.1	6.5	7.0
5	11	7.1	e4.6	e4.3	e4.3	e5.2	8.5	25	14	7.9	6.5	6.9
6	11	7.1	e4.6	e4.4	e4.3	e5.0	10	26	13	7.9	6.6	6.8
7	11	7.1	e5.0	e4.1	e4.3	e5.0	11	26	13	e8.0	6.6	6.8
8	11	7.1	e5.4	e4.3	e4.4	5.2	12	26	13	e8.0	6.5	7.0
9	10	7.1	e4.8	e4.5	e4.6	5.2	13	24	13	e7.9	6.3	7.4
10	9.9	6.7	e5.0	e4.6	e4.4	5.1	14	24	12	e7.9	6.3	6.7
11	9.7	6.6	e5.2	e4.7	e4.2	5.8	15	25	12	e7.9	6.3	6.5
12	9.6	6.6	e5.0	e4.6	e4.2	5.4	14	25	11	8.0	6.9	6.4
13	9.6	6.5	e4.8	e4.4	e4.1	5.1	14	23	11	8.2	6.9	6.3
14	9.4	6.5	e4.9	e4.6	e4.3	5.1	16	21	11	8.0	6.4	6.2
15	9.1	6.4	e4.3	e4.6	e4.2	5.3	17	20	10	7.6	6.2	6.1
16	9.0	6.3	e4.5	e4.7	e4.1	5.5	15	19	10	7.7	6.2	6.0
17	8.8	6.2	e5.0	e4.7	e3.9	5.6	14	18	10	8.0	6.8	6.0
18	9.1	6.2	e5.2	e4.5	e3.8	5.7	16	17	9.8	7.4	9.7	6.0
19	9.3	5.7	e5.4	e4.5	e3.7	6.1	16	16	11	7.3	19	5.9
20	9.0	e5.8	e5.4	e4.4	e4.0	5.8	14	16	9.7	7.2	11	5.9
21	8.9	e5.8	e5.2	e4.6	e4.2	5.6	14	15	9.4	7.2	10	5.9
22	8.7	e5.4	e5.0	e4.7	e4.1	5.6	14	15	9.2	6.7	9.4	6.2
23	8.5	e5.4	e4.6	e4.3	e4.3	5.8	13	15	9.2	6.7	9.5	5.8
24	8.5	e5.2	e4.5	e4.0	e3.9	6.0	13	17	9.1	6.6	10	5.8
25	8.5	e4.8	e4.7	e4.3	e3.7	6.5	14	19	9.1	6.9	9.4	5.8
26	8.5	e5.2	e4.9	e4.5	e4.0	7.0	15	19	9.0	7.3	8.8	5.8
27	8.5	e5.6	e4.8	e4.6	e4.3	8.0	18	18	10	7.0	8.4	5.7
28	7.9	e6.0	e4.8	e4.3	e4.5	8.4	22	17	9.5	6.8	8.5	5.6
29	7.8	e6.2	e4.9	e4.0	e4.5	8.1	23	17	9.2	6.6	8.5	5.7
30	7.3	e5.6	e4.8	e3.8	---	7.8	23	16	9.1	6.7	8.3	5.8
31	7.6	---	e4.6	e4.3	---	7.5	---	16	---	6.7	7.8	---
TOTAL	291.2	189.6	152.5	137.2	121.8	181.1	416.2	614	335.3	233.9	248.6	190.1
MEAN	9.39	6.32	4.92	4.43	4.20	5.84	13.9	19.8	11.2	7.55	8.02	6.34
MAX	11	7.5	5.4	4.8	4.7	8.4	23	26	15	8.8	19	7.5
MIN	7.3	4.8	4.3	3.8	3.7	4.4	6.7	15	9.0	6.6	6.2	5.6
AC-FT	578	376	302	272	242	359	826	1220	665	464	493	377

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2000, BY WATER YEAR (WY)

MEAN	11.6	9.11	7.27	6.04	6.03	9.24	22.1	58.6	70.7	30.4	18.4	13.7
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	6.29	5.37	4.26	3.51	3.47	4.11	8.77	14.5	11.2	7.55	6.55	6.34
(WY)	1979	1977	1951	1951	1964	1977	1977	1972	2000	2000	1972	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1913 - 2000	
ANNUAL TOTAL	7662.5		3111.5			
ANNUAL MEAN	21.0		8.50		22.2	
HIGHEST ANNUAL MEAN					46.7	1941
LOWEST ANNUAL MEAN					8.50	2000
HIGHEST DAILY MEAN	98	May 24	26	May 6-8	246	Jun 4 1942
LOWEST DAILY MEAN	4.3	Dec 15	3.7	Feb 19,25	2.0	Jan 28 1981
ANNUAL SEVEN-DAY MINIMUM	4.7	Dec 23	4.0	Feb 16	2.7	Jan 22 1981
INSTANTANEOUS PEAK FLOW			32	Aug 19	310	Jun 8 1979
INSTANTANEOUS PEAK STAGE			2.25	Aug 19	3.17	Jun 20 1995
INSTANTANEOUS LOW FLOW			3.3	Mar 11	1.4	Nov 2 1951
ANNUAL RUNOFF (AC-FT)	15200		6170		16090	
10 PERCENT EXCEEDS	57		16		53	
50 PERCENT EXCEEDS	11		6.9		11	
90 PERCENT EXCEEDS	5.5		4.4		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 a 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e5.3	e8.8	e6.4	e5.1	e5.6	e5.2	e13	e38	e14	e5.3	e3.1	e2.3
2	e5.5	e8.2	e6.5	e4.8	e3.3	e5.6	e12	e34	e13	e5.1	e2.9	e2.4
3	e5.9	e8.2	e6.0	e4.3	e5.0	e5.1	e12	e33	e13	e5.0	e2.9	e2.4
4	e6.1	e8.2	e6.4	e3.2	e4.8	e5.3	e11	e34	e11	e4.9	e3.0	e2.4
5	e6.4	e8.2	e4.2	e5.6	e4.4	e5.4	e13	e37	e11	e4.7	e2.9	e2.4
6	e6.3	e8.1	e5.2	e5.1	e4.3	e5.3	e14	e40	e11	e4.7	e2.8	e2.3
7	e8.9	e8.0	e6.3	e4.7	e4.2	e5.4	e16	e40	e11	e4.9	e2.9	e2.3
8	e9.3	e8.1	e6.8	e5.6	e4.0	e5.2	e15	e40	e9.9	e5.0	e3.0	e2.5
9	e8.1	e8.4	e5.8	e5.6	e4.2	e5.3	e15	e38	e9.8	e4.9	e2.7	e3.2
10	e7.3	e8.0	e6.7	e5.2	e4.2	e5.4	e16	e35	e8.5	e5.0	e2.4	e2.8
11	e6.7	e7.9	e6.5	e5.0	e4.4	e3.5	e18	e34	e6.8	e5.2	e2.5	e2.4
12	e6.8	e7.9	e4.8	e4.6	e4.1	e5.2	e16	e33	e6.0	e5.3	e2.6	e2.5
13	e6.7	e7.6	e5.0	e4.3	e4.5	e5.7	e16	e32	e6.0	e5.5	e3.3	e2.4
14	e7.1	e7.1	e5.5	e4.2	e4.5	e5.8	e17	e30	e5.6	e6.4	e2.8	e2.8
15	e7.5	e6.8	e2.5	e4.2	e4.5	e6.4	e20	e27	e5.4	e6.2	e2.8	e2.8
16	e7.9	e6.4	e4.8	e4.5	e4.5	e6.8	e18	e25	e5.2	e5.4	e3.0	e2.8
17	e9.5	e6.0	e6.5	e4.6	e5.0	e6.1	e18	e25	e5.2	e5.5	e3.2	e3.3
18	e9.0	e6.1	e6.2	e4.6	e5.0	e7.5	e21	e23	e5.2	e5.7	e4.9	e3.7
19	e9.1	e5.5	e5.5	e4.7	e4.3	e5.4	e25	e22	e5.8	e6.0	e6.2	e4.2
20	e8.8	e5.5	e4.9	e4.8	e4.9	e7.6	e21	e21	e5.0	e5.9	e4.0	e3.6
21	e8.6	e6.1	e5.5	e5.0	e5.3	e8.5	e21	e20	e4.7	e5.9	e2.9	e3.8
22	e8.6	e6.2	e4.0	e5.0	e5.3	e9.3	e21	e19	e4.5	e5.6	e2.9	e4.2
23	e8.4	e6.0	e4.7	e4.8	e5.2	e8.5	e21	e19	e4.6	e5.6	e2.5	e4.6
24	e8.4	e6.0	e5.5	e4.1	e5.4	e8.4	e22	e18	e4.8	e5.1	e2.4	e4.4
25	e8.5	e3.2	e5.7	e5.5	e4.6	e8.6	e24	e19	e4.7	e4.6	e2.4	e4.6
26	e8.5	e4.8	e5.0	e6.1	e3.0	e9.2	e24	e19	e4.9	e4.4	e2.4	e4.5
27	e8.4	e6.1	e4.0	e5.8	e4.3	e11	e23	e17	e5.2	e4.8	e2.2	e4.1
28	e8.4	e6.1	e3.9	e5.2	e5.6	e14	e25	e15	e5.3	e4.1	e2.4	e3.6
29	e8.8	e6.0	e4.2	e2.8	e5.5	e15	e34	e15	e5.9	e3.7	e2.4	e3.5
30	e9.0	e6.1	e4.1	e1.8	---	e14	e40	e15	e5.8	e3.6	e2.5	e3.2
31	e8.8	---	e4.4	e4.3	---	e14	---	e14	---	e3.4	e2.5	---
TOTAL	242.6	205.6	163.5	145.1	133.9	233.7	582	831	218.8	157.4	91.4	96.0
MEAN	7.83	6.85	5.27	4.68	4.62	7.54	19.4	26.8	7.29	5.08	2.95	3.20
MAX	9.5	8.8	6.8	6.1	5.6	15	40	40	14	6.4	6.2	4.6
MIN	5.3	3.2	2.5	1.8	3.0	3.5	11	14	4.5	3.4	2.2	2.3
AC-FT	481	408	324	288	266	464	1150	1650	434	312	181	190

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2000, BY WATER YEAR (WY)

MEAN	7.48	6.69	5.77	5.25	5.55	9.40	31.1	93.2	52.3	14.4	12.3	8.89
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1953 - 2000	
ANNUAL TOTAL	11172.5		3101.0			
ANNUAL MEAN	30.6		8.47		21.1	
HIGHEST ANNUAL MEAN					44.0	1994
LOWEST ANNUAL MEAN					5.96	1972
HIGHEST DAILY MEAN	285	May 25	[a]40	Apr 30	590	May 22 1991
LOWEST DAILY MEAN	2.3	Feb 12	1.8	Jan 30	.60	Jan 5 1955
ANNUAL SEVEN-DAY MINIMUM	4.3	Jan 1	2.4	Sep 1	1.2	Jan 4 1955
INSTANTANEOUS PEAK FLOW					644	May 22 1991
INSTANTANEOUS PEAK STAGE					4.16	May 22 1991
INSTANTANEOUS LOW FLOW					.20	Jan 5 1955
ANNUAL RUNOFF (AC-FT)	22160		6150		15280	
10 PERCENT EXCEEDS	94		19		49	
50 PERCENT EXCEEDS	9.1		5.5		8.0	
90 PERCENT EXCEEDS	4.6		2.9		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. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	27	32	32	40	37	39	42	7.1	5.2	3.9	5.0
2	21	27	31	31	35	41	35	38	6.9	5.2	3.8	4.5
3	22	28	29	31	39	43	31	29	6.7	5.1	3.6	4.6
4	21	29	30	34	39	42	30	24	6.6	4.7	3.6	4.2
5	21	28	31	36	38	39	30	28	6.4	4.4	3.5	3.9
6	21	29	32	37	38	38	33	26	6.8	4.7	3.3	3.4
7	21	28	32	39	37	37	35	24	6.2	5.0	3.2	3.3
8	23	28	32	34	36	36	38	24	6.3	5.1	3.0	4.7
9	23	28	32	31	37	35	37	26	6.5	4.0	3.2	3.8
10	22	27	31	35	37	34	38	22	6.5	3.9	9.8	3.5
11	21	27	33	35	36	32	49	20	5.8	3.9	8.0	3.4
12	20	27	32	34	36	33	43	19	5.4	5.2	3.7	3.3
13	19	27	31	33	38	34	41	19	4.8	4.6	5.5	3.4
14	19	27	31	33	38	33	42	16	4.7	5.3	3.6	3.4
15	20	27	28	33	35	32	43	15	4.7	4.7	3.4	3.5
16	22	27	35	34	35	34	36	13	4.4	4.4	3.4	3.5
17	24	29	33	34	36	31	32	13	4.3	4.6	3.6	3.5
18	25	29	36	36	36	30	30	13	4.2	4.5	6.0	3.6
19	25	28	32	35	34	29	31	14	4.7	4.2	7.7	3.5
20	27	29	35	34	34	31	30	13	4.6	4.2	5.5	3.3
21	27	33	30	35	35	32	30	11	4.7	4.0	5.0	3.4
22	25	32	30	35	33	34	30	10	5.0	3.9	5.0	3.4
23	27	33	36	33	35	35	32	9.5	5.2	4.1	4.9	3.4
24	27	32	33	33	35	34	30	9.3	5.1	4.1	4.8	3.5
25	30	29	32	37	35	35	28	9.4	5.1	4.1	5.3	4.0
26	30	29	32	51	33	34	26	9.1	4.9	4.2	4.8	4.1
27	27	31	32	49	36	35	31	8.8	5.4	4.2	4.6	4.3
28	28	31	32	40	40	39	39	7.8	6.0	4.2	4.7	4.9
29	27	31	32	36	39	41	42	7.6	5.8	4.2	4.8	5.4
30	27	31	31	32	---	41	44	7.4	5.5	4.3	5.4	5.2
31	27	---	32	35	---	41	---	7.1	---	4.4	5.3	---
TOTAL	740	868	990	1097	1055	1102	1055	535.0	166.3	138.6	145.9	116.9
MEAN	23.9	28.9	31.9	35.4	36.4	35.5	35.2	17.3	5.54	4.47	4.71	3.90
MAX	30	33	36	51	40	43	49	42	7.1	5.3	9.8	5.4
MIN	19	27	28	31	33	29	26	7.1	4.2	3.9	3.0	3.3
AC-FT	1470	1720	1960	2180	2090	2190	2090	1060	330	275	289	232

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2000, BY WATER YEAR (WY)

MEAN	26.8	33.2	34.1	32.9	38.0	49.2	112	251	139	30.1	24.7	23.0
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1957 - 2000	
ANNUAL TOTAL	21874		8009.7			
ANNUAL MEAN	59.9		21.9		65.6	
HIGHEST ANNUAL MEAN					193	1994
LOWEST ANNUAL MEAN					14.5	1972
HIGHEST DAILY MEAN	470	May 1	51	Jan 26	1940	May 20 1994
LOWEST DAILY MEAN	17	Jul 30	3.0	Aug 8	2.6	Aug 16 1972
ANNUAL SEVEN-DAY MINIMUM	19	Sep 8	3.3	Aug 3	3.0	Aug 10 1972
INSTANTANEOUS PEAK FLOW			298	Aug 10	[a]2380	Aug 24 1957
INSTANTANEOUS PEAK STAGE			7.17	Aug 10	8.93	May 22 1991
INSTANTANEOUS LOW FLOW			2.8	Aug 7	1.9	Aug 1 1972
ANNUAL RUNOFF (AC-FT)	43390		15890		47560	
10 PERCENT EXCEEDS	174		37		130	
50 PERCENT EXCEEDS	32		27		32	
90 PERCENT EXCEEDS	21		4.0		9.8	

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	851	616	731	559	504	625	366	482	392	283	191	184
2	843	659	732	558	522	652	346	545	415	268	186	181
3	834	683	709	546	575	650	403	541	420	264	184	176
4	794	698	653	515	623	632	412	484	367	245	185	176
5	773	653	631	515	657	629	447	463	379	234	182	175
6	744	598	573	516	648	617	481	450	364	233	182	172
7	729	569	510	505	658	617	460	420	339	233	190	176
8	737	549	527	474	645	625	429	438	318	228	185	181
9	747	541	502	503	650	624	401	480	315	222	180	184
10	752	530	459	510	646	606	397	466	337	216	180	182
11	755	533	495	526	684	538	419	412	324	210	179	177
12	710	663	527	532	663	490	411	381	309	236	179	176
13	661	685	520	546	630	469	414	379	296	219	176	176
14	624	672	538	551	619	460	422	356	301	203	185	175
15	613	668	461	555	601	444	417	373	297	204	182	175
16	612	659	484	572	613	442	383	396	296	204	178	177
17	642	691	462	585	636	413	382	365	282	209	179	174
18	630	718	502	605	632	399	391	339	263	215	192	170
19	646	723	563	621	634	398	382	332	263	224	243	169
20	717	676	523	647	628	393	357	363	265	209	221	177
21	745	661	549	667	608	388	348	387	260	202	201	174
22	725	654	523	664	597	390	350	357	274	199	195	180
23	641	636	498	653	611	374	401	342	273	199	196	180
24	610	623	528	604	627	403	403	347	275	204	191	178
25	610	613	528	578	620	403	392	360	262	201	189	176
26	607	604	524	714	605	382	396	367	248	198	186	176
27	605	593	506	751	608	371	403	381	256	204	186	176
28	608	610	522	742	608	366	453	369	269	202	192	175
29	614	648	517	691	590	371	476	387	281	198	189	178
30	632	702	552	567	---	366	452	398	278	204	185	195
31	619	---	547	504	---	369	---	370	---	196	184	---
TOTAL	21430	19128	16896	18076	17942	14906	12194	12530	9218	6766	5853	5321
MEAN	691	638	545	583	619	481	406	404	307	218	189	177
MAX	851	723	732	751	684	652	481	545	420	283	243	195
MIN	605	530	459	474	504	366	346	332	248	196	176	169
AC-FT	42510	37940	33510	35850	35590	29570	24190	24850	18280	13420	11610	10550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2000, BY WATER YEAR (WY)

MEAN	426	534	498	485	553	671	862	1770	1786	737	423	389
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1926 - 2000	
ANNUAL TOTAL	343453		160260			
ANNUAL MEAN	941		438		761	
HIGHEST ANNUAL MEAN					1840	1942
LOWEST ANNUAL MEAN					271	1964
HIGHEST DAILY MEAN	2670	May 26	851	Oct 1	9730	Jun 7 1948
LOWEST DAILY MEAN	272	Apr 13	169	Sep 19	159	Sep 2 1956
ANNUAL SEVEN-DAY MINIMUM	283	Apr 15	174	Sep 13	159	Sep 19 1956
INSTANTANEOUS PEAK FLOW			869	Oct 1	9730	Jun 7 1948
INSTANTANEOUS PEAK STAGE			4.48	Oct 1	9.23	Jun 22 1949
INSTANTANEOUS LOW FLOW			168	Sep 6,18	155	Sep 21 1956
ANNUAL RUNOFF (AC-FT)	681200		317900		551600	
10 PERCENT EXCEEDS	1820		663		1490	
50 PERCENT EXCEEDS	684		434		480	
90 PERCENT EXCEEDS	441		182		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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
MAY												
12...	1030	382	615	110	9.2	8.6	392	18.0	13.5	120	11	34.2
JUN												
02...	1020	405	620	119	9.1	8.6	443	25.0	18.0	120	--	34.9
JUL												
24...	1040	206	632	125	9.3	8.5	320	32.0	20.5	96	--	27.0
AUG												
17...	1130	176	632	116	8.6	8.6	297	33.0	20.5	91	--	25.7

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
MAY												
12...	8.24	5.0	1	32.3	112	108	120	6	8.2	.7	25.0	70.7
JUN												
02...	8.12	5.2	1	37.1	134	122	144	3	9.3	.8	26.9	78.2
JUL												
24...	6.94	3.2	1	22.8	103	98	112	4	7.3	.7	30.4	42.8
AUG												
17...	6.64	2.8	1	22.6	98	94	107	4	7.3	.8	30.2	36.8

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	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)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
MAY												
12...	.29	.60	.06	--	.010	--	.090	<.010	.020	.010	.070	--
JUN												
02...	.22	.45	.03	--	<.010	--	.090	<.010	.030	.020	.100	--
JUL												
24...	.23	.32	.13	50	.020	<2	.220	<.010	<.020	<.010	.050	220
AUG												
17...	<.20	.24	.04	--	<.010	--	.250	<.010	<.020	.020	.020	--

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	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)
MAY												
12...	250	<26	<1	2.0	34	<1	61	<1.0	<.8	<1	2	10
JUN												
02...	275	7	<1	2.5	37	<1	83	<1.0	E.5	<1	1	E10
JUL												
24...	201	11	<1	E2.0	28	<1	43	<1.0	.9	<1	<1	<10
AUG												
17...	191	--	--	--	--	--	39	--	--	--	--	<10

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	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)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD) (01028)
MAY											
12...	<1	7	<.3	9	1	<2.4	<3	<1	<3	--	--
JUN											
02...	<1	4	<.3	9	2	<2.4	<3	<1	<1	--	--
JUL											
24...	<1	6	<.3	13	<1	<2.4	<3	<1	2	3	1.3
AUG											
17...	--	--	<.3	--	--	--	<3	--	--	--	--

DATE	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB) (01052)	MANGA- NESE, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN) (01093)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
MAY											
12...	--	--	--	--	--	--	--	--	2	57	95
JUN											
02...	--	--	--	--	--	--	--	--	2	52	89
JUL											
24...	18	11	32	26000	50	1200	.02	190	2	33	98
AUG											
17...	--	--	--	--	--	--	--	--	--	33	98

08277470 RIO PUEBLO NEAR PENASCO, NM

LOCATION.--Lat 36°10'07", long 105°36'10", in SE$^1/_4$NE$^1/_4$ 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 estimated daily discharges, which are poor. Several observations of water temperature where made during year.

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	15	14	e9.2	e9.4	e9.8	13	21	145	32	9.0	6.3	7.0
2	14	13	e8.8	e9.2	e9.0	12	20	124	32	8.8	6.0	4.7
3	14	13	e8.0	e8.8	e10	12	20	121	34	9.7	6.1	4.3
4	14	13	e7.6	e7.6	11	14	21	129	29	8.5	6.3	4.0
5	14	13	e7.6	e8.6	11	12	33	142	26	7.9	6.0	4.9
6	14	13	e8.2	e8.8	11	12	45	145	24	6.4	6.4	5.0
7	17	13	e8.2	e8.6	10	12	51	138	23	7.5	6.7	5.2
8	17	13	e9.0	e7.8	11	10	56	135	22	19	7.2	5.1
9	16	13	e8.6	e8.6	10	12	56	123	22	12	6.4	5.7
10	15	12	e9.6	e8.2	10	11	63	118	20	11	6.0	4.9
11	15	13	e10	e8.8	9.7	12	67	114	18	7.9	7.0	4.6
12	14	12	e10	e9.2	e9.4	14	59	104	16	9.7	6.5	4.4
13	14	12	e9.2	e9.6	8.6	12	71	89	14	13	7.4	4.3
14	14	12	e11	9.9	11	e11	81	81	12	15	6.6	4.3
15	13	12	e8.4	9.6	11	e11	88	76	11	10	6.2	4.4
16	13	12	e8.4	9.6	11	e12	75	74	11	7.8	7.8	4.5
17	15	12	e9.6	9.7	11	e11	81	69	12	8.5	10	4.3
18	14	12	e9.8	11	e9.0	e11	98	62	13	6.9	20	4.8
19	16	10	e10	11	e8.6	e9.4	111	59	18	6.8	20	5.7
20	16	15	e9.0	9.9	e9.2	e11	95	52	13	6.1	12	6.3
21	15	11	e9.2	9.9	11	e10	97	44	11	5.8	9.5	6.8
22	15	10	e9.8	9.7	10	8.8	98	43	11	5.6	8.5	7.3
23	15	e8.0	e9.4	e9.0	e8.8	14	102	48	14	6.0	7.1	7.2
24	15	e7.8	e9.8	e9.2	e9.2	16	113	57	10	5.5	6.7	7.0
25	14	e7.6	e9.6	e9.6	e8.6	17	126	59	9.2	5.3	7.9	6.3
26	14	e8.2	e9.0	e11	e7.8	21	134	55	8.5	5.6	9.2	6.2
27	14	e10	e9.0	e10	e10	28	158	49	9.0	5.6	8.8	6.5
28	14	e9.4	e9.2	e8.6	12	32	178	42	11	5.8	9.2	6.3
29	14	e9.2	e8.8	e7.8	11	29	185	39	11	6.4	10	6.9
30	13	e8.8	e9.2	e7.8	---	27	177	35	9.5	6.5	10	6.8
31	13	---	e10	e9.4	---	24	---	33	---	7.9	8.3	---
TOTAL	450	342.0	283.2	285.9	289.7	461.2	2580	2604	506.2	257.5	262.1	165.7
MEAN	14.5	11.4	9.14	9.22	9.99	14.9	86.0	84.0	16.9	8.31	8.45	5.52
MAX	17	15	11	11	12	32	185	145	34	19	20	7.3
MIN	13	7.6	7.6	7.6	7.8	8.8	20	33	8.5	5.3	6.0	4.0
AC-FT	893	678	562	567	575	915	5120	5170	1000	511	520	329

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2000, BY WATER YEAR (WY)

MEAN	14.4	15.5	12.5	10.7	12.0	25.9	105	304	161	56.3	26.2	18.3
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	11.4	9.14	8.87	9.54	14.9	38.4	31.9	5.53	7.92	6.26	5.52
(WY)	1997	2000	2000	1999	1999	2000	1996	1996	1996	1996	1996	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1992 - 2000	
ANNUAL TOTAL	22120.0		8487.5			
ANNUAL MEAN	60.6		23.2		63.4	
HIGHEST ANNUAL MEAN					124	1994
LOWEST ANNUAL MEAN					14.5	1996
HIGHEST DAILY MEAN	1160	Apr 30	185	Apr 29	1720	May 20 1994
LOWEST DAILY MEAN	6.4	Feb 1	4.0	Sep 4	3.3	Jun 21 1996
ANNUAL SEVEN-DAY MINIMUM	6.8	Jan 27	4.4	Sep 11	3.7	Jun 18 1996
INSTANTANEOUS PEAK FLOW			197	Apr 28,29	2200	May 19 1994
INSTANTANEOUS PEAK STAGE			4.02	Apr 28,29	6.00	May 19 1994
INSTANTANEOUS LOW FLOW			3.7	Mar 11	2.3	Mar 13 1999
ANNUAL RUNOFF (AC-FT)	43880		16830		45900	
10 PERCENT EXCEEDS	171		64		170	
50 PERCENT EXCEEDS	17		11		16	
90 PERCENT EXCEEDS	8.8		6.3		9.0	

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 estimated daily discharges, which are poor. Several observations of water temperature were made during year.

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	18	11	8.3	e8.8	e7.2	e6.4	8.8	57	37	e22	14	19
2	18	11	7.8	e8.6	e7.0	e6.6	9.0	55	38	e22	13	18
3	17	10	e7.6	e7.8	e7.6	e6.6	8.5	63	37	e19	12	16
4	17	10	e7.4	e7.2	e7.2	e7.2	9.1	78	33	e17	12	16
5	17	10	e7.4	e7.8	e7.0	e6.6	13	87	30	e15	12	15
6	17	10	e7.8	e8.2	e7.0	e6.6	17	87	28	e17	13	14
7	20	10	e9.0	e7.8	e6.4	e6.6	19	85	27	e19	17	14
8	19	9.9	e8.2	e7.6	e6.8	e6.4	21	86	26	e21	17	14
9	18	9.8	e8.0	e7.8	e6.4	e7.2	23	85	26	e22	12	15
10	17	9.1	e8.6	e7.6	e6.4	e6.6	26	87	25	e20	12	13
11	16	9.5	e9.0	e7.6	e6.0	e8.0	26	87	25	19	12	13
12	16	9.3	e9.0	e7.6	e6.0	7.6	22	81	24	20	13	12
13	15	9.1	e8.4	e7.4	e5.8	7.7	25	71	22	20	12	12
14	15	9.1	e7.8	e7.8	e6.2	7.6	29	67	22	23	12	12
15	15	8.6	e7.8	e7.4	e6.2	7.5	30	62	21	21	11	11
16	15	8.5	e7.8	e6.8	e6.2	7.8	26	57	19	19	11	11
17	15	8.4	e8.4	e6.8	e6.0	8.9	30	53	21	22	16	11
18	14	8.4	e8.8	e7.6	e5.6	8.6	38	48	22	21	41	11
19	15	7.2	e9.0	e7.6	e5.8	10	39	45	24	23	44	10
20	14	8.8	e8.4	e6.6	e6.4	8.5	33	43	19	19	29	10
21	14	8.4	e8.6	e6.6	e6.0	7.1	33	41	18	17	26	10
22	13	7.7	e9.0	e6.4	e6.0	7.6	32	41	18	16	27	12
23	13	e7.2	e8.8	e6.2	e6.2	7.4	32	43	21	15	31	10
24	13	e6.8	e9.0	e7.0	e6.2	7.7	37	45	17	15	32	9.9
25	12	e6.6	e8.8	e6.4	e6.0	8.5	42	45	16	14	29	9.7
26	12	e7.0	e8.4	e6.6	e6.4	9.1	49	44	e15	18	26	9.3
27	12	e8.2	e8.4	e6.4	e6.4	11	60	42	e14	16	24	9.1
28	12	e8.0	e8.6	e6.2	e6.8	12	71	41	e15	15	24	8.9
29	12	e7.6	e8.4	e6.0	e6.4	10	76	40	e17	17	23	8.8
30	11	e7.6	e8.8	e6.0	---	10	71	39	e19	18	22	8.7
31	11	---	e9.0	e6.8	---	9.4	---	38	---	15	20	---
TOTAL	463	262.8	260.3	223.0	185.6	248.8	955.4	1843	696	577	619	363.4
MEAN	14.9	8.76	8.40	7.19	6.40	8.03	31.8	59.5	23.2	18.6	20.0	12.1
MAX	20	11	9.0	8.8	7.6	12	76	87	38	23	44	19
MIN	11	6.6	7.4	6.0	5.6	6.4	8.5	38	14	14	11	8.7
AC-FT	918	521	516	442	368	493	1900	3660	1380	1140	1230	721

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2000, BY WATER YEAR (WY)

MEAN	14.2	11.4	8.58	7.02	6.89	11.1	34.9	106	115	36.9	37.8	24.0
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1953 - 2000	
ANNUAL TOTAL	13228.7		6697.3			
ANNUAL MEAN	36.2		18.3		33.6	
HIGHEST ANNUAL MEAN					50.5	1957
LOWEST ANNUAL MEAN					12.0	1956
HIGHEST DAILY MEAN	228	May 24	[a]87	May 5	499	Jun 2 1994
LOWEST DAILY MEAN	5.8	Jan 23	5.6	Feb 18	3.0	Jan 31 1957
ANNUAL SEVEN-DAY MINIMUM	6.4	Jan 22	6.0	Feb 13	3.1	Jan 30 1957
INSTANTANEOUS PEAK FLOW			106	May 5,10	838	Jun 18 1995
INSTANTANEOUS PEAK STAGE			4.38	May 10	6.21	Jun 18 1995
INSTANTANEOUS LOW FLOW			4.6	Feb 23	2.4	Mar 2 1996
ANNUAL RUNOFF (AC-FT)	26240		13280		24360	
10 PERCENT EXCEEDS	109		40		91	
50 PERCENT EXCEEDS	17		12		15	
90 PERCENT EXCEEDS	7.2		6.6		6.4	

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	34	39	34	35	25	41	176	29	9.8	9.3	7.8
2	36	34	38	31	29	29	38	142	28	8.3	8.3	7.4
3	35	33	31	30	34	25	40	135	33	7.7	8.3	7.9
4	33	32	30	23	33	31	37	145	30	8.0	7.7	7.6
5	30	32	29	29	31	37	43	165	27	7.9	7.4	7.6
6	30	32	31	30	31	32	58	184	27	7.9	7.1	7.3
7	36	33	31	29	30	31	65	169	25	7.8	7.3	6.8
8	39	35	34	26	29	29	79	167	24	8.4	7.0	7.0
9	35	35	32	30	31	29	77	154	25	8.5	6.9	8.1
10	34	35	37	28	30	29	87	144	27	8.3	7.1	8.6
11	33	35	41	31	28	22	107	139	22	8.3	7.0	9.5
12	30	35	36	32	25	27	89	133	19	7.4	6.7	8.6
13	29	34	31	33	28	30	97	117	18	6.7	6.6	8.1
14	29	33	35	32	29	28	110	101	15	7.7	6.6	7.6
15	29	34	25	31	30	28	128	88	13	8.3	6.6	7.6
16	29	34	25	34	27	32	104	84	12	7.8	6.9	7.3
17	36	34	32	35	29	29	101	81	11	7.9	7.6	7.4
18	39	36	34	39	26	31	113	70	11	8.0	9.5	7.7
19	39	34	36	38	23	25	139	62	12	8.0	35	7.5
20	39	32	31	34	26	32	118	60	12	7.7	20	7.0
21	41	37	34	33	28	31	112	50	11	7.2	13	6.9
22	39	37	29	33	25	30	109	42	11	7.0	12	7.4
23	36	33	31	29	23	29	106	39	9.5	7.5	9.5	7.8
24	36	33	30	25	25	32	112	39	9.4	6.3	8.3	8.6
25	37	27	32	36	22	32	128	45	8.3	6.4	8.6	9.0
26	37	32	32	42	18	32	125	52	7.9	6.8	10	9.0
27	35	43	29	40	26	36	152	47	9.4	6.5	9.9	8.1
28	35	42	29	32	29	45	187	42	12	6.8	8.4	8.5
29	36	40	31	22	26	49	225	38	11	7.4	9.4	8.3
30	38	38	27	21	---	49	211	34	11	7.2	8.9	8.1
31	35	---	29	31	---	46	---	32	---	7.7	8.1	---
TOTAL	1081	1038	991	973	806	992	3138	2976	520.5	237.2	295.0	236.1
MEAN	34.9	34.6	32.0	31.4	27.8	32.0	105	96.0	17.4	7.65	9.52	7.87
MAX	41	43	41	42	35	49	225	184	33	9.8	35	9.5
MIN	29	27	25	21	18	22	37	32	7.9	6.3	6.6	6.8
AC-FT	2140	2060	1970	1930	1600	1970	6220	5900	1030	470	585	468

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2000, BY WATER YEAR (WY)

MEAN	38.2	36.4	31.7	29.1	30.8	47.1	144	315	203	51.3	50.3	41.6
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1924 - 2000	
ANNUAL TOTAL	39808		13283.8			
ANNUAL MEAN	109		36.3		85.1	
HIGHEST ANNUAL MEAN					235	1941
LOWEST ANNUAL MEAN					12.8	1951
HIGHEST DAILY MEAN	866	May 25	225	Apr 29	2590	May 14 1941
LOWEST DAILY MEAN	25	Dec 15	6.3	Jul 24	.20	Jun 27 1950
ANNUAL SEVEN-DAY MINIMUM	30	Dec 25	6.8	Jul 22	.60	Jul 16 1951
INSTANTANEOUS PEAK FLOW			253	Apr 29	[a]4200	Aug 29 1977
INSTANTANEOUS PEAK STAGE			3.09	Apr 29	[b]7.10	Aug 29 1977
INSTANTANEOUS LOW FLOW			4.6	Jul 31	.06	Jun 26 1950
ANNUAL RUNOFF (AC-FT)	78960		26350		61670	
10 PERCENT EXCEEDS	350		85		213	
50 PERCENT EXCEEDS	41		30		35	
90 PERCENT EXCEEDS	31		7.6		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 SW$^1/_4$SW$^1/_4$ 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 mi^2, approximately, including 2,940 mi^2 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	870	644	749	589	534	632	403	646	414	296	203	182
2	865	680	754	589	549	670	387	679	440	290	196	178
3	856	701	730	587	585	668	423	683	464	278	193	173
4	820	722	687	537	640	656	441	641	402	262	191	169
5	795	684	652	545	679	653	477	628	403	247	186	170
6	770	635	597	539	667	643	529	638	397	244	187	167
7	755	604	559	542	679	640	529	592	368	246	192	167
8	765	587	551	500	665	646	506	588	349	244	191	176
9	770	578	538	534	667	644	478	633	338	235	183	182
10	767	570	522	533	663	636	471	621	364	230	181	180
11	779	557	525	554	696	572	520	559	353	222	195	179
12	735	668	557	559	684	523	499	514	337	220	193	175
13	692	707	550	573	658	501	503	495	320	258	181	174
14	658	698	570	580	644	489	525	461	318	216	179	172
15	640	691	487	584	619	471	545	445	315	216	179	169
16	643	685	508	597	634	474	493	481	313	214	175	170
17	671	702	485	611	651	446	476	452	302	220	172	171
18	671	735	526	629	654	429	501	413	282	222	197	165
19	678	743	583	650	642	424	530	394	280	232	275	163
20	730	704	559	666	646	422	488	411	282	223	252	172
21	767	686	577	682	630	417	461	441	269	208	212	172
22	758	683	552	686	615	420	457	403	286	204	199	178
23	683	664	527	677	620	399	494	386	286	204	198	179
24	645	648	544	638	640	430	523	384	289	208	192	177
25	642	644	558	605	642	431	525	405	277	206	189	177
26	641	620	557	717	613	417	524	425	263	203	190	175
27	636	630	542	771	621	402	555	429	267	208	186	174
28	637	644	551	765	637	410	635	413	286	208	190	174
29	650	674	546	709	612	417	703	415	295	205	191	174
30	660	712	575	600	---	412	660	445	301	212	186	187
31	655	---	573	540	---	414	---	402	---	208	184	---
TOTAL	22304	19900	17791	18888	18486	15808	15261	15522	9860	7089	6018	5221
MEAN	719	663	574	609	637	510	509	501	329	229	194	174
MAX	870	743	754	771	696	670	703	683	464	296	275	187
MIN	636	557	485	500	534	399	387	384	263	203	172	163
AC-FT	44240	39470	35290	37460	36670	31360	30270	30790	19560	14060	11940	10360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2000, BY WATER YEAR (WY)

MEAN	437	560	526	514	583	716	1003	2048	1971	780	460	393
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1931 - 2000	
ANNUAL TOTAL	373748		172148			
ANNUAL MEAN	1024		470		[a]833	
HIGHEST ANNUAL MEAN					2077	1942
LOWEST ANNUAL MEAN					308	1977
HIGHEST DAILY MEAN	3260	May 26	870	Oct 1	11700	May 16 1941
LOWEST DAILY MEAN	307	Apr 18	163	Sep 19	163	Sep 19 2000
ANNUAL SEVEN-DAY MINIMUM	322	Apr 15	169	Sep 14	166	Sep 1 1956
INSTANTANEOUS PEAK FLOW			885	Oct 1	[b]16200	Jun 19 1903
INSTANTANEOUS PEAK STAGE			3.91	Oct 1	15.90	Jun 19 1903
INSTANTANEOUS LOW FLOW			154	Sep 19	130	Jun 30 1902
ANNUAL RUNOFF (AC-FT)	741300		341500		603300	
10 PERCENT EXCEEDS	2020		686		1630	
50 PERCENT EXCEEDS	702		521		517	
90 PERCENT EXCEEDS	499		184		262	

a Average discharge for 41 years (water years 1890-1930), 1,238 ft^3/s, 896,900 acre-ft/yr.
b A flood of about 14,000 ft^3/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-QULAITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT											
08...	1137	767	620	136	11.6	8.1	240	13.5	13.0	25	--
NOV											
18...	1015	724	616	108	10.8	8.2	275	12.0	6.0	12	--
DEC											
10...	0935	512	616	106	12.1	7.9	297	-2.5	1.0	7	--
JAN											
13...	1540	575	625	107	11.3	8.5	292	12.5	4.5	88	38
FEB											
03...	1345	570	619	104	10.8	8.3	292	15.0	5.0	52	58
MAR											
09...	1500	645	615	132	12.4	8.4	286	10.8	8.5	102	40
APR											
13...	1545	512	616	128	10.3	8.3	434	24.0	15.5	50	84
MAY											
04...	1530	640	615	126	9.6	8.2	375	30.0	18.0	61	58
JUN											
14...	1440	313	617	127	8.8	8.4	401	29.0	22.5	51	--
JUL											
14...	1330	213	621	137	9.3	8.2	317	30.5	24.0	57	--
AUG											
10...	1720	177	618	149	9.9	8.6	300	30.0	25.0	33	--
SEP											
14...	1650	170	621	119	8.7	8.6	310	31.5	20.5	52	--

08284100 RIO CHAMA NEAR LA PUENTE, NM

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

DRAINAGE AREA.--480 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 estimated daily discharges, which are poor. Diversions for irrigation of about 10,300 acres upstream from station (1962 determination).

EXTREMES OUTSIDE PERIOD OF RECORDS.--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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	49	49	e49	e51	52	120	754	108	27	11	13
2	57	51	52	e47	e46	53	115	690	94	23	10	12
3	55	48	47	e47	e51	50	110	915	85	18	11	12
4	54	48	42	e41	e49	55	116	971	74	15	9.9	11
5	52	48	e42	e43	e47	61	162	1000	69	11	9.3	10
6	50	48	e43	e46	e46	59	216	893	66	10	9.3	10
7	56	48	e46	e43	e47	61	252	697	60	10	10	10
8	70	47	e50	e46	47	55	338	705	47	11	9.9	12
9	60	49	e47	e47	50	55	336	658	59	16	9.5	14
10	53	48	e47	e48	52	56	491	508	78	12	8.9	19
11	53	46	e50	e51	50	45	536	485	56	12	8.5	17
12	50	48	e46	e50	45	54	441	401	43	12	5.2	13
13	44	46	e44	e46	e45	58	589	329	33	11	4.4	12
14	43	45	e46	e48	50	60	820	289	26	11	8.7	10
15	46	46	e41	e49	50	63	774	256	25	12	8.3	10
16	44	49	e41	e50	53	65	516	245	24	17	8.7	9.0
17	44	49	e44	e51	56	61	540	219	19	20	8.6	7.9
18	46	54	e48	e50	51	60	855	179	17	19	8.7	6.6
19	46	44	e48	e49	e48	53	946	169	24	16	16	7.3
20	47	40	e47	e47	49	66	629	165	34	13	20	7.7
21	46	50	e48	e48	56	68	866	152	27	12	15	6.3
22	45	47	e46	e50	56	63	961	154	22	12	15	6.7
23	44	48	e46	e46	56	62	769	181	22	12	17	8.1
24	44	38	e48	e43	52	64	1100	216	18	11	16	10
25	45	e36	e50	e47	47	73	1220	211	18	7.1	14	12
26	44	e42	e50	e50	49	84	1310	196	19	6.9	15	14
27	43	e48	e49	e52	52	103	1500	164	22	9.5	14	16
28	45	50	e48	e51	57	144	1540	151	26	11	15	16
29	47	52	e50	e47	54	129	1320	156	26	9.6	14	15
30	48	50	e47	e43	---	142	1000	143	32	9.5	14	16
31	45	---	e47	e48	---	149	---	126	---	11	13	---
TOTAL	1523	1412	1449	1473	1462	2223	20488	12378	1273	407.6	357.9	343.6
MEAN	49.1	47.1	46.7	47.5	50.4	71.7	683	399	42.4	13.1	11.5	11.5
MAX	70	54	52	52	57	149	1540	1000	108	27	20	19
MIN	43	36	41	41	45	45	110	126	17	6.9	4.4	6.3
AC-FT	3020	2800	2870	2920	2900	4410	40640	24550	2520	808	710	682

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2000, BY WATER YEAR (WY)

MEAN	92.4	85.3	60.9	56.0	69.8	188	835	1821	761	134	99.5	79.1
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1956 - 2000	
ANNUAL TOTAL	121072		44790.1			
ANNUAL MEAN	332		122		358	
HIGHEST ANNUAL MEAN					723	1985
LOWEST ANNUAL MEAN					63.0	1977
HIGHEST DAILY MEAN	2600	May 14	1540	Apr 28	7720	May 10 1985
LOWEST DAILY MEAN	36	Nov 25	4.4	Aug 13	4.4	Sep 19 1956
ANNUAL SEVEN-DAY MINIMUM	43	Nov 20	7.2	Sep 17	5.6	Sep 18 1956
INSTANTANEOUS PEAK FLOW			2160	Apr 28	[a]11200	May 28 1979
INSTANTANEOUS PEAK STAGE			4.67	Apr 28	6.46	May 14 1984
INSTANTANEOUS LOW FLOW			3.1	Aug 12	3.1	Aug 12 2000
ANNUAL RUNOFF (AC-FT)	240100		88840		259400	
10 PERCENT EXCEEDS	974		301		1030	
50 PERCENT EXCEEDS	113		48		81	
90 PERCENT EXCEEDS	46		10		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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
MAR												
16...	1245	60	585	100	9.4	8.3	205	9.5	6.5	84	25.7	4.90
JUN												
22...	1200	21	590	108	7.5	8.4	233	20.0	20.5	88	26.8	5.12

DATE	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)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
MAR											
16...	1.8	.3	7.1	76	2.9	<.1	19.1	23.3	<.20	.21	--
JUN											
22...	1.9	.4	8.3	99	2.3	.2	22.4	18.4	.28	.21	.08

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	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)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
MAR											
16...	.020	<.020	<.010	<.020	.030	<.020	131	E13	30	23	45
JUN											
22...	.020	<.020	<.010	.060	.020	.050	145	17	50	4	85

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.--30 years, 128 ft^3/s, 92,740 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, 580 ft^3/s, May 24; no flow many days.

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	.00	.00	.00	.00	.00	.00	29	225	314	13	.00	.00
2	.00	.00	.00	.00	.00	.00	26	227	286	23	.00	.00
3	.00	.00	.00	.00	.00	.00	56	366	266	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	143	446	199	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	190	513	171	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	201	486	164	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	258	435	128	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	254	473	107	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	309	359	126	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	264	353	117	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	222	428	86	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	313	338	83	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	361	260	62	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	289	204	57	.00	6.1	.00
15	.00	.00	.00	.00	.00	.00	207	197	58	12	6.1	.00
16	.00	.00	.00	.00	.00	.00	207	198	42	5.5	2.0	.00
17	.00	.00	.00	.00	.00	1.0	226	158	34	.00	20	.00
18	.00	.00	.00	.00	.00	3.0	299	117	22	.00	14	.00
19	.00	.00	.00	.00	.00	3.0	246	97	22	.00	54	.00
20	.00	.00	.00	.00	.00	2.0	230	93	28	.00	13	.00
21	.00	.00	.00	.00	.00	1.0	205	123	18	.00	.00	.00
22	.00	.00	.00	.00	.00	1.0	290	245	18	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	229	450	11	.00	.00	.00
24	.00	.00	.00	.00	.00	1.0	285	580	6.6	.00	.00	.00
25	.00	.00	.00	.00	.00	11	340	568	6.1	.00	.00	.00
26	.00	.00	.00	.00	.00	27	430	489	4.0	.00	.00	.00
27	.00	.00	.00	.00	.00	54	510	378	29	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	541	439	32	.00	.00	.00
29	.00	.00	.00	.00	.00	65	476	507	18	.00	.00	.00
30	.00	.00	.00	.00	---	68	362	453	15	.00	.00	.00
31	.00	---	.00	.00	---	33	---	377	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	270.00	7998	10582	2529.7	53.50	115.20	0.00
MEAN	.000	.000	.000	.000	.000	8.71	267	341	84.3	1.73	3.72	.000
MAX	.00	.00	.00	.00	.00	68	541	580	314	23	54	.00
MIN	.00	.00	.00	.00	.00	.00	26	93	4.0	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	536	15860	20990	5020	106	228	.00

CAL YR 1999 TOTAL 59947.00 MEAN 164 MAX 862 MIN .00 AC-FT 118900
WTR YR 2000 TOTAL 21548.40 MEAN 58.9 MAX 580 MIN .00 AC-FT 42740

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. 30 years (water years 1971-2000), 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, 560 ft^3/s, Apr. 28; no flow many days.

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	.00	.00	.00	.00	.00	.00	55	261	244	18	.00	.00
2	.00	.00	.00	.00	.00	.00	43	229	307	25	.00	.00
3	.00	.00	.00	.00	.00	.00	60	358	300	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	137	411	229	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	233	512	185	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	273	501	192	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	315	436	126	1.5	.00	.00
8	.00	.00	.00	.00	.00	.00	302	482	117	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	302	383	139	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	302	338	135	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	261	432	99	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	323	371	77	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	349	290	35	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	294	217	16	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	214	219	51	2.5	2.0	.00
16	.00	.00	.00	.00	.00	.00	214	220	48	8.1	3.5	.00
17	.00	.00	.00	.00	.00	3.0	241	180	37	.00	8.6	.00
18	.00	.00	.00	.00	.00	2.0	315	141	24	.00	9.1	.00
19	.00	.00	.00	.00	.00	2.0	298	111	24	.00	41	.00
20	.00	.00	.00	.00	.00	4.0	277	100	33	.00	.00	.00
21	.00	.00	.00	.00	.00	5.0	241	111	21	.00	.00	.00
22	.00	.00	.00	.00	.00	5.0	319	229	21	.00	.00	.00
23	.00	.00	.00	.00	.00	5.0	257	309	9.6	.00	.00	.00
24	.00	.00	.00	.00	.00	4.0	315	534	7.1	.00	.00	.00
25	.00	.00	.00	.00	.00	13	380	535	4.0	.00	.00	.00
26	.00	.00	.00	.00	.00	29	490	502	3.5	.00	.00	.00
27	.00	.00	.00	.00	.00	53	528	368	18	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	560	415	43	.00	.00	.00
29	.00	.00	.00	.00	.00	84	490	497	21	.00	.00	.00
30	.00	.00	.00	.00	---	98	385	473	29	.00	.00	.00
31	.00	---	.00	.00	---	60	---	385	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	367.00	8773	10550	2595.2	55.10	64.20	0.00
MEAN	.000	.000	.000	.000	.000	11.8	292	340	86.5	1.78	2.07	.000
MAX	.00	.00	.00	.00	.00	98	560	535	307	25	41	.00
MIN	.00	.00	.00	.00	.00	.00	43	100	3.5	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	728	17400	20930	5150	109	127	.00

CAL YR 1999 TOTAL 57864.00 MEAN 159 MAX 769 MIN .00 AC-FT 114800
WTR YR 2000 TOTAL 22404.50 MEAN 61.2 MAX 560 MIN .00 AC-FT 44440

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 7,188.85 ft above National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to July 1, 1971, at site 1,100 ft upstream at higher datums.

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

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.--No flow during period of seasonal operation.

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	.00	---	---	---	---	---	---	.00	.00	.00	.00	.00
2	.00	---	---	---	---	---	---	.00	.00	.00	.00	.00
3	.00	---	---	---	---	---	---	.00	.00	.00	.00	.00
4	.00	---	---	---	---	---	---	.00	.00	.00	.00	.00
5	.00	---	---	---	---	---	---	.00	.00	.00	.00	.00
6	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
7	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
8	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
9	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
10	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
11	---	---	---	---	---	---	---	.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	0.00	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

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, 396,210 acre-ft, Oct. 1, elevation, 7,185.23 ft; minimum, 286,330 acre-ft, Sept. 30, elevation, 7,164.72 ft.

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

(Based on survey by U.S. 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 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	396210	393460	385920	379760	376280	372480	346920	337970	346540	334030	329530	314150
2	396040	393230	385680	379650	376110	371520	346160	338030	345730	333450	329480	312720
3	395740	392940	385400	379480	376060	370560	345350	338720	344860	332860	329430	311550
4	395450	392650	385110	379360	376060	369710	344640	339530	344000	332020	329320	310320
5	395390	392530	384820	379190	375880	368810	344100	340280	342860	331590	329270	309060
6	395340	392300	384590	379020	375710	368020	343620	341250	341840	331430	329110	307790
7	395220	392010	384300	378790	375490	367300	343240	342430	341080	331330	329010	306470
8	395160	391890	384070	378680	375370	366230	342860	342920	340710	331280	328950	305010
9	395160	391540	383840	378450	375260	365950	342430	343510	340920	331120	328900	303350
10	395100	391540	383550	378450	375140	364440	342160	344100	341140	331120	328800	301340
11	395040	391310	383320	378390	374980	363550	341780	344750	341190	331060	328690	299890
12	394930	391130	383090	378280	374920	362600	341250	345240	341190	330900	328590	298200
13	394870	390550	382750	378160	374800	361870	340760	345730	341190	331120	328480	296160
14	394750	390320	382460	378050	374750	361040	340330	346050	341300	330800	328430	294670
15	394750	390090	382460	377940	374630	360100	339850	346430	341300	330750	328380	292990
16	394690	389970	382230	377760	374520	359210	339100	346700	340870	330800	328270	291270
17	394630	389330	382060	377650	374350	358380	338460	346870	339850	330750	328220	289550
18	394630	389220	381830	377540	374350	357330	337760	347080	338720	330640	327850	288470
19	394520	388870	381710	377420	374180	356390	337070	347250	337710	330540	327170	288030
20	394340	388580	381310	377190	374070	355780	336420	347460	336740	330430	326220	287690
21	394280	388340	381310	377080	374010	355010	336260	347520	335730	330320	325330	287540
22	394220	388060	381200	376970	373900	354240	336210	347950	335410	330220	324390	287500
23	394160	387710	381020	376800	373840	353200	336210	348770	334930	330170	323510	287250
24	394050	387420	380910	376680	373730	352430	336160	349750	334880	330060	322460	287110
25	393990	387130	380800	376800	373500	351610	336260	350300	334830	330060	321480	287060
26	393930	386960	380620	376970	373330	350730	336530	349910	334770	329960	320650	287010
27	393930	386720	380510	376850	373220	349910	336960	349420	334770	329850	319660	286910
28	393870	386550	380340	376680	373050	349310	337440	348820	334830	329800	318780	286860
29	393700	386380	380160	376570	372930	348610	337760	348440	334830	329800	317910	286720
30	393640	386200	380110	376400	---	348280	338030	348010	334620	329640	316880	286330
31	393580	---	379940	376400	---	347680	---	347360	---	329590	315380	---
MAX	396210	393460	385920	379760	376280	372480	346920	350300	346540	334030	329530	314150
MIN	393580	386200	379940	376400	372930	347680	336160	337970	334620	329590	315380	286330
(+)	7184.78	7183.51	7182.42	7181.80	7181.19	7176.64	7174.85	7176.58	7174.21	7173.26	7170.53	7164.72
(++)	-2870	-7380	-6260	-3540	-3470	-25250	-9650	+9330	-12740	-5030	-14210	-29050

CAL YR 1999 MAX 398330 MIN 285600 (++) +71490
WTR YR 2000 MAX 396210 MIN 286330 (++) -110120

(+) 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-in. and 120-in. in diameter.

COOPERATION.--Records provided by Bureau of Reclamation.

AVERAGE DISCHARGE.--29 years, 130 ft^3/s, 94,180 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, 850 ft^3/s, Sept. 9-17; no flow many days.

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	100	100	100	50	50	350	500	100	700	325	.00	650
2	100	100	100	50	50	500	500	.00	700	325	.00	650
3	100	100	100	50	50	500	500	.00	700	325	.00	650
4	44	100	100	50	50	500	500	.00	700	325	.00	650
5	.00	100	100	50	50	500	500	.00	700	156	.00	650
6	.00	100	100	50	50	500	500	.00	700	.00	.00	650
7	.00	100	100	50	50	500	500	.00	520	.00	.00	650
8	.00	100	100	50	50	500	500	.00	168	.00	.00	750
9	.00	100	100	50	50	500	500	.00	.00	.00	.00	850
10	.00	100	100	50	50	500	500	.00	.00	.00	.00	850
11	.00	100	100	50	50	500	500	.00	.00	.00	.00	850
12	.00	100	100	50	50	500	611	.00	.00	.00	.00	850
13	.00	100	100	50	50	500	700	.00	.00	.00	.00	850
14	.00	100	100	50	50	500	700	.00	.00	.00	.00	850
15	.00	100	100	50	50	500	700	.00	.00	.00	.00	850
16	.00	100	71	50	50	500	700	.00	255	.00	.00	850
17	.00	100	50	50	50	500	700	.00	500	.00	.00	850
18	.00	100	50	50	50	500	700	.00	500	.00	260	500
19	.00	100	50	50	50	500	700	.00	500	.00	500	250
20	.00	100	50	50	50	500	700	.00	500	.00	500	162
21	.00	100	50	50	50	500	388	.00	524	.00	500	.00
22	.00	100	50	50	50	500	200	.00	235	.00	500	.00
23	.00	100	50	50	50	500	200	.00	.00	.00	500	.00
24	.00	100	50	50	50	500	200	357	.00	.00	500	.00
25	.00	100	50	50	50	500	200	700	.00	.00	500	.00
26	.00	100	50	50	50	500	200	700	.00	.00	500	.00
27	.00	100	50	50	50	500	200	700	.00	.00	500	.00
28	.00	100	50	50	50	500	200	700	.00	.00	500	.00
29	.00	100	50	50	50	500	200	700	.00	.00	500	59
30	.00	100	50	50	---	500	200	700	179	.00	600	150
31	.00	---	50	50	---	500	---	700	---	.00	650	---
TOTAL	344.00	3000	2321	1550	1450	15350	13899	5357.00	8081.00	1456.00	7010.00	14071.00
MEAN	11.1	100	74.9	50.0	50.0	495	463	173	269	47.0	226	469
MAX	100	100	100	50	50	500	700	700	700	325	650	850
MIN	.00	100	50	50	50	350	200	.00	.00	.00	.00	.00
AC-FT	682	5950	4600	3070	2880	30450	27570	10630	16030	2890	13900	27910

CAL YR 1999 TOTAL 20584.00 MEAN 56.4 MAX 194 MIN .00 AC-FT 40830
WTR YR 2000 TOTAL 73889.00 MEAN 202 MAX 850 MIN .00 AC-FT 146600

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, 179,880 acre-ft, May 11, elevation, 6,900.01 ft; minimum, 31,900 acre-ft, Sept. 29, elevation 6,826.08 ft.

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

(Based on survey by U.S. 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 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151690	138590	139210	139510	139720	139670	145870	175880	166730	126240	76910	48520
2	151550	138590	139240	139530	139700	140100	146350	176470	165630	125020	75800	47920
3	151490	138590	139260	139530	139670	140590	146770	177230	165630	123790	74870	47340
4	151260	138590	139290	139510	139670	141000	146880	178200	163690	122490	73150	46760
5	151030	138590	139290	139480	139640	141520	146960	177350	164390	121400	71510	46030
6	150740	138590	139260	139480	139640	142020	147220	178520	163390	120100	69310	45540
7	150460	138590	139400	139480	139620	142510	147670	178710	162040	118520	67940	44920
8	147220	138590	139450	139480	139590	142980	148350	179150	160010	116690	66860	44280
9	147220	138590	139510	139480	139590	143480	148970	179530	157720	114910	65830	43760
10	145120	138620	139530	139480	139620	143860	150000	179720	155520	113590	64710	43240
11	144090	138620	139530	139480	139590	144310	151060	179880	153370	112360	63050	42740
12	143720	138590	139560	139450	139620	144720	151810	179850	150830	111270	61100	42240
13	143370	138560	139620	139450	139590	145120	152820	179530	148660	110060	59160	41760
14	143030	138540	139640	139480	139620	145390	154180	179060	147050	108290	57880	41280
15	143500	138480	139640	139510	139590	145560	155490	178550	145560	106020	56910	40780
16	142350	138480	139640	139510	139590	145650	156430	178020	144480	103820	55820	40310
17	142040	138480	139640	139530	139620	145530	157310	177380	143980	102310	54850	39790
18	141710	138510	139620	139560	139620	145200	158670	176790	143560	100430	53820	39280
19	141410	138540	139620	139620	139590	144840	160210	176130	143060	98010	53010	38710
20	141110	138540	139560	139640	139590	144500	161290	175530	142460	95640	52160	38070
21	140870	138640	139560	139700	139590	144450	162580	174810	141930	93580	51750	37060
22	140620	138670	139560	139720	139620	144780	163960	174190	141470	91680	51910	36190
23	140380	138720	139560	139700	139620	145120	165020	173750	139130	90320	52320	35520
24	140190	138750	139530	139670	139620	145480	166510	173160	137250	89000	52730	34930
25	139970	138830	139510	139720	139560	145980	168380	172450	135330	87690	52450	34360
26	139780	138830	139510	139860	139530	146520	170470	171740	133430	86360	51560	33430
27	139530	138860	139480	139890	139510	146540	172600	170930	131630	85090	50700	32510
28	139340	138880	139480	139860	139530	146320	173850	170130	130120	83400	50310	32160
29	139130	138970	139480	139800	139510	145980	174310	169300	128710	81540	50200	31900
30	138910	139020	139480	139750	---	145870	175190	168440	127380	79560	49700	31920
31	138750	---	139480	139750	---	145870	---	167580	---	78070	49120	---
MAX	151690	139020	139640	139890	139720	146540	175190	179880	166730	126240	76910	48520
MIN	138750	138480	139210	139450	139510	139670	145870	167580	127380	78070	49120	31900
(+)	6886.07	6886.17	6886.34	6886.44	6886.35	6888.66	6898.52	6896.06	6881.73	6858.63	6840.10	6826.10
(++)	-13170	+270	+460	+270	-240	+6360	+29320	-7610	-40200	-49310	-28950	-17200

CAL YR 1999 MAX 179910 MIN 106190 (++) +33400
WTR YR 2000 MAX 179880 MIN 31900 (++) -120000

(+) 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	255	135	112	83	105	187	421	606	1230	935	592	886
2	188	136	112	84	105	242	365	489	1240	931	528	882
3	190	136	111	84	105	242	365	403	1230	928	487	882
4	187	136	109	84	105	242	485	402	1230	922	821	881
5	190	136	108	84	105	242	547	404	1230	719	983	888
6	191	137	108	84	105	243	495	402	1230	593	981	895
7	190	137	108	84	104	243	445	404	1230	776	699	899
8	601	138	108	84	104	243	408	404	1230	910	551	1030
9	1160	138	108	83	104	243	408	403	1230	910	550	1110
10	1150	138	108	84	105	243	408	402	1230	703	548	1110
11	597	138	108	84	105	242	410	402	1230	593	836	1090
12	236	138	108	84	105	243	533	455	1250	593	990	1080
13	206	138	107	84	105	303	598	501	1050	594	984	1080
14	187	138	106	84	105	349	599	500	800	922	666	1080
15	187	138	106	84	105	405	597	500	749	1180	497	1080
16	188	138	94	83	105	454	599	501	751	1180	497	1080
17	189	138	82	82	105	552	600	500	752	799	497	1080
18	189	128	82	82	105	640	598	501	754	975	746	741
19	189	116	82	82	105	666	599	503	784	1210	877	492
20	188	114	82	82	105	663	600	503	801	1210	874	491
21	187	114	83	82	105	573	494	503	798	1040	636	491
22	159	114	83	95	105	356	406	460	797	907	326	438
23	137	115	83	105	105	305	406	412	903	731	237	338
24	136	115	83	105	105	311	407	486	965	645	239	336
25	135	114	83	105	106	237	356	888	961	652	650	270
26	134	114	84	106	104	236	295	1250	960	650	883	446
27	134	114	84	105	104	526	415	1240	964	649	882	486
28	135	114	83	105	104	758	893	1240	851	869	631	186
29	135	113	83	106	104	757	1110	1240	688	995	498	186
30	135	113	83	105	---	758	779	1240	826	991	738	186
31	135	---	83	105	---	611	---	1240	---	754	887	---
TOTAL	8220	3831	2964	2793	3039	12315	15641	19384	29944	26466	20811	22120
MEAN	265	128	95.6	90.1	105	397	521	625	998	854	671	737
MAX	1160	138	112	106	106	758	1110	1250	1250	1210	990	1110
MIN	134	113	82	82	104	187	295	402	688	593	237	186
AC-FT	16300	7600	5880	5540	6030	24430	31020	38450	59390	52500	41280	43880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2000, BY WATER YEAR (WY)

MEAN	219	185	284	158	170	301	844	1639	881	415	379	331
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1971 - 2000	
ANNUAL TOTAL	114170		167528			
ANNUAL MEAN	313		458		[a]485	
HIGHEST ANNUAL MEAN					754	1985
LOWEST ANNUAL MEAN					194	1972
HIGHEST DAILY MEAN	2540	May 15	[c]1250	May 26	[b]5790	May 21 1973
LOWEST DAILY MEAN	82	Dec 17	82	Dec 17	11	Oct 1 1972
ANNUAL SEVEN-DAY MINIMUM	82	Dec 17	82	Dec 17	16	Oct 14 1974
ANNUAL RUNOFF (AC-FT)	226500		332300		351600	
10 PERCENT EXCEEDS	634		1030		1150	
50 PERCENT EXCEEDS	166		402		228	
90 PERCENT EXCEEDS	114		91		49	

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.
c Also occurred June 12.

08286500 RIO CHAMA ABOVE ABIQUIU RESERVOIR, NM

LOCATION.--Lat 36°19'06", long 106°35'50", Rio Arriba County, Hydrologic Unit 13020102, on left bank 40 ft downstream from site of former bridge, 7.7 mi downstream from Rio Gallina, 9 mi northwest of Youngsville, 15.6 mi upstream from Abiquiu Dam, 30.3 mi downstream from El Vado Dam, and at mile 47.4.

DRAINAGE AREA.--1,600 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 estimated daily discharges, 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	273	137	113	e86	114	115	530	659	1220	911	622	845
2	188	137	113	e86	113	239	397	604	1220	911	552	845
3	180	137	113	e86	113	242	380	449	1220	911	509	845
4	174	137	112	e86	115	242	406	447	1210	902	628	844
5	177	137	112	e86	115	245	577	450	1210	814	944	845
6	180	137	111	e86	115	245	498	454	1210	599	952	852
7	181	137	111	e86	114	249	490	454	1210	665	825	858
8	227	137	113	e86	114	246	425	450	1210	887	555	917
9	1040	138	113	e86	115	250	426	446	1210	891	551	1070
10	1070	137	112	e86	116	247	426	440	1210	796	546	1060
11	865	137	112	e86	114	246	431	435	1210	597	667	1050
12	250	137	113	e86	114	246	479	447	1220	594	966	1040
13	237	137	112	e86	114	255	599	525	1140	593	975	1040
14	197	137	111	e86	117	335	608	524	832	714	809	1040
15	194	137	e110	e86	113	351	616	522	734	1150	504	1040
16	193	137	e108	e86	113	443	615	520	731	1150	499	1040
17	196	138	e86	e86	116	465	610	518	734	977	506	1040
18	194	139	e86	e88	114	620	610	518	737	767	595	913
19	193	119	e86	e89	112	624	617	521	753	1180	845	500
20	193	112	e86	90	112	639	624	521	778	1180	840	495
21	192	112	e86	91	113	630	588	517	775	1100	745	493
22	191	113	e86	92	115	507	444	508	779	885	451	490
23	145	112	e86	110	112	283	445	429	824	807	257	354
24	141	111	e86	112	114	418	439	445	938	634	251	340
25	140	111	e86	e110	111	265	442	661	939	644	394	333
26	137	111	e86	e109	111	255	349	1210	936	647	826	255
27	137	112	e86	e108	112	328	370	1220	947	639	840	667
28	137	113	e86	e110	112	716	747	1220	920	734	737	220
29	137	113	e86	113	112	741	1150	1220	690	963	498	201
30	136	113	e86	112	---	761	987	1220	729	968	586	199
31	136	---	e86	114	---	780	---	1220	---	846	839	---
TOTAL	8031	3822	3079	2910	3295	12228	16325	19774	29476	26056	20314	21731
MEAN	259	127	99.3	93.9	114	394	544	638	983	841	655	724
MAX	1070	139	113	114	117	780	1150	1220	1220	1180	975	1070
MIN	136	111	86	86	111	115	349	429	690	593	251	199
AC-FT	15930	7580	6110	5770	6540	24250	32380	39220	58470	51680	40290	43100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2000, BY WATER YEAR (WY)

MEAN	231	192	291	166	194	345	901	1747	927	427	398	338
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1971 - 2000	
ANNUAL TOTAL	120329		167041			
ANNUAL MEAN	330		456		[c]515	
HIGHEST ANNUAL MEAN					823	1980
LOWEST ANNUAL MEAN					204	1972
HIGHEST DAILY MEAN	2450	May 15	[a]1220	May 27	6480	May 18 1984
LOWEST DAILY MEAN	86	Dec 17	b86	Dec 17	11	Oct 3 1972
ANNUAL SEVEN-DAY MINIMUM	86	Dec 17	86	Dec 17	20	Oct 15 1974
INSTANTANEOUS PEAK FLOW			1280	Jun 13	6680	May 8 1985
INSTANTANEOUS PEAK STAGE			7.68	Jun 13	[d]7.67	May 8 1985
INSTANTANEOUS LOW FLOW			72	Jan 30	[f]7.5	Oct 17 1963
ANNUAL RUNOFF (AC-FT)	238700		331300		372900	
10 PERCENT EXCEEDS	737		1000		1200	
50 PERCENT EXCEEDS	186		412		240	
90 PERCENT EXCEEDS	113		92		63	

e Estimated
a Also May 28 to June 3 and 12.
b Many days.
c Average discharge for 9 years (water years 1962-70), 358 ft^3/s, 259,400 acre-ft/yr, prior to release of transmountain water.
d Maximum gage height, 8.70 ft, May 20, 1973.
f 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. 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, 182,230 acre-ft, Mar. 14, elevation, 6,219.59 ft; minimum, 75,280 acre-ft, Sept. 30, elevation, 6,187.55 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 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174560	174990	176800	177350	178220	179130	179330	181160	160280	138160	115180	89320
2	174290	175070	176760	177390	178220	179330	179530	181360	159980	137950	114410	88770
3	174090	175150	176760	177430	178220	179640	179610	181320	159720	137350	113100	88230
4	173940	175270	176760	177430	178220	179920	179640	181120	159420	136920	112140	87660
5	173740	175390	176720	177430	178260	180200	179720	180640	159240	136010	111340	87060
6	173590	175500	176680	177430	178300	180480	179840	180000	159090	134710	110550	86460
7	173350	175620	176680	177430	178340	180760	179880	179370	158940	133630	109470	85810
8	173200	175780	176680	177430	178420	181040	179880	178620	158680	132690	108060	85410
9	173780	175900	176680	177470	178500	181240	179880	177790	158340	131750	106640	85130
10	175430	176020	176720	177470	178580	181480	179720	176720	157970	130500	105330	84880
11	177080	176130	176760	177510	178650	181720	179530	175500	157600	129080	104520	84760
12	177860	176250	176800	177550	178730	181990	179450	174530	157190	127640	103970	84820
13	177820	176370	176880	177590	178810	182200	179450	173550	156490	126160	103410	84880
14	177630	176490	176920	177670	178890	182230	179640	172220	155380	125370	102700	84880
15	177310	176600	176960	177750	178930	182040	179880	171020	154090	125170	101810	84820
16	177000	176680	176960	177820	179050	181360	180160	169980	152650	125270	100580	84730
17	176640	176760	176960	177860	179130	180720	180080	168790	151370	125030	99250	84650
18	176490	176800	176960	177980	179130	180160	179800	167630	149980	125340	98820	84260
19	176450	176840	177000	178100	179090	179560	179720	166600	148560	126020	98820	83280
20	176450	176840	177040	178100	179090	179530	179840	165580	146920	126540	98800	82360
21	176450	176880	177080	178100	179050	179410	179800	164560	145400	125920	98550	81670
22	176250	176840	177040	178100	179090	179290	179680	163610	144040	125000	97620	80810
23	176090	176880	177080	178060	179130	179010	179560	162520	143280	124040	96060	79850
24	175970	176840	177120	178020	179130	178650	179290	161210	142600	122860	94310	78930
25	175740	176800	177120	178140	179090	178300	179050	160280	141920	121560	93280	78040
26	175460	176840	177160	178220	179090	177940	178730	160170	141210	120200	92630	77330
27	175230	176840	177190	178300	179050	177710	178500	160280	140280	118580	91990	77120
28	175110	176880	177190	178260	179050	177900	179010	160390	139470	117600	91350	76690
29	175030	176840	177230	178260	179090	178300	179840	160500	138650	116920	90560	76000
30	174990	176800	177270	178220	---	178810	180680	160580	138230	116400	89930	75280
31	174960	---	177310	178220	---	179130	---	160580	---	115790	89700	---
MAX	177860	176880	177310	178300	179130	182230	180680	181360	160280	138160	115180	89320
MIN	173200	174990	176680	177350	178220	177710	178500	160170	138230	115790	89700	75280
(+)	6217.75	6218.22	6218.35	6218.58	6218.80	6218.81	6219.20	6213.99	6207.85	6201.26	6192.75	6187.55
(++)	+280	+1840	+510	+910	+870	+40	+1550	-20100	-22350	-22440	-26090	-14420

CAL YR 1999 MAX 185700 MIN 160280 (++) +6980
WTR YR 2000 MAX 182230 MIN 75280 (++) -99400

(+) 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$^1/_4$SE$^1/_4$ 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. Flow controlled by El Vado Reservoir (station 08285000) 46.4 mi upstream and Abiquiu Reservoir (station 08286900) 0.8 mi upstream since February 1963. Since May 1971 flow affected by release of transmountain water from Heron Reservoir (station 08284510) 54.5 mi upstream. Diversions for irrigation of about 17,600 acres upstream from station. Several observations of water temperature taken during year.

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	312	86	133	74	123	118	470	565	1370	955	1030	1120
2	309	82	133	73	122	118	437	498	1430	1040	997	1170
3	277	81	133	73	123	118	394	489	1400	1170	1180	1170
4	256	80	133	73	114	119	426	562	1330	1240	1300	1210
5	256	80	133	73	99	120	517	666	1300	1310	1300	1230
6	255	80	133	73	99	121	516	766	1310	1340	1390	1230
7	258	78	133	73	99	120	515	767	1300	1400	1440	1280
8	260	77	133	73	89	121	514	813	1380	1440	1350	1330
9	260	75	123	73	80	121	514	922	1440	1440	1290	1260
10	257	78	115	73	80	121	568	955	1430	1430	1290	1200
11	250	78	80	73	80	120	608	955	1430	1400	1290	1140
12	250	78	80	73	80	120	608	1020	1460	1390	1290	1100
13	250	77	79	73	81	174	608	1120	1490	1390	1250	1100
14	282	77	78	73	80	319	560	1120	1490	1280	1160	1100
15	350	78	78	73	101	473	517	1090	1480	1200	1080	1130
16	356	92	78	73	104	760	584	1090	1480	1190	1090	1150
17	358	102	78	73	103	923	709	1090	1480	1200	1180	1150
18	266	103	78	73	109	960	820	1090	1490	716	1130	1110
19	198	102	78	73	120	843	716	1070	1530	824	875	1050
20	199	102	77	99	118	660	586	1050	1560	864	742	975
21	199	102	78	122	117	649	549	1050	1500	1480	796	891
22	193	102	78	123	116	709	523	961	1460	1480	1020	846
23	158	102	77	122	116	587	581	1050	1420	1330	1080	813
24	281	108	78	121	117	476	611	1150	1400	1300	1150	808
25	317	115	77	122	118	476	565	1250	1410	1360	1180	740
26	254	115	78	124	118	475	518	1210	1440	1430	1150	652
27	254	115	78	124	118	528	518	1170	1460	1500	1110	589
28	254	115	77	124	118	605	551	1170	1380	1400	1080	546
29	224	123	77	123	117	598	596	1170	1220	1310	987	528
30	155	133	77	122	---	600	596	1170	1060	1290	953	527
31	91	---	77	122	---	548	---	1240	---	1170	1030	---
TOTAL	7839	2816	2938	2836	3059	12800	16795	30289	42330	39269	35190	30145
MEAN	253	93.9	94.8	91.5	105	413	560	977	1411	1267	1135	1005
MAX	358	133	133	124	123	960	820	1250	1560	1500	1440	1330
MIN	91	75	77	73	80	118	394	489	1060	716	742	527
AC-FT	15550	5590	5830	5630	6070	25390	33310	60080	83960	77890	69800	59790

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2000, BY WATER YEAR (WY)

MEAN	303	290	297	183	238	415	868	1229	1099	660	493	443
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	52.4	111	242	184	201	98.4	64.4
(WY)	1979	1990	1975	1978	1978	1977	1977	1972	1976	1972	1979	1972

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1971 - 2000	
ANNUAL TOTAL	124336		226306			
ANNUAL MEAN	341		618		[a]544	
HIGHEST ANNUAL MEAN					872	1987
LOWEST ANNUAL MEAN					213	1972
HIGHEST DAILY MEAN	1800	May 28	1560	Jun 20	2660	May 15 1985
LOWEST DAILY MEAN	55	Mar 26	73	Jan 2	10	Sep 19 1972
ANNUAL SEVEN-DAY MINIMUM	58	Feb 23	73	Jan 2	21	Sep 30 1972
ANNUAL RUNOFF (AC-FT)	246600		448900		394200	
10 PERCENT EXCEEDS	725		1380		1590	
50 PERCENT EXCEEDS	243		518		318	
90 PERCENT EXCEEDS	60		78		55	

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 estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 3,500 acres (1962 determination). Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Apr. 21, 1958, may have been exceeded by a flood in May 1920, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	17	18	14	17	18	39	104	6.5	14	7.2	5.5
2	11	16	16	14	16	18	35	78	6.8	11	e4.5	4.8
3	11	16	16	13	16	17	32	91	6.3	10	e4.1	4.2
4	12	16	16	13	16	17	30	87	6.3	9.6	e4.0	4.7
5	13	16	14	14	15	19	31	80	6.1	8.6	e4.0	3.6
6	13	17	13	12	16	19	35	64	6.1	8.1	e3.9	3.4
7	13	16	14	13	17	20	59	53	6.5	8.0	e3.7	3.4
8	14	15	15	13	14	20	81	52	5.8	7.7	e3.6	3.5
9	15	16	14	13	15	18	74	54	5.5	7.8	e3.5	3.6
10	14	15	15	13	17	18	101	43	5.4	7.8	3.5	3.4
11	14	15	15	13	16	16	114	35	5.2	7.1	3.4	3.4
12	14	16	14	13	15	18	86	33	5.2	24	3.4	3.4
13	13	16	13	14	16	19	129	28	5.1	9.0	3.6	3.5
14	13	15	13	15	17	19	183	26	5.1	6.9	3.6	3.5
15	13	15	12	15	17	19	184	23	4.9	5.6	4.0	3.4
16	13	15	13	15	17	19	113	20	5.0	5.5	3.9	3.4
17	16	16	12	e16	20	19	116	21	5.0	5.8	3.7	3.4
18	18	16	11	e18	17	20	185	18	4.9	5.5	5.1	3.7
19	18	15	13	e17	15	17	207	16	4.9	5.2	8.2	3.5
20	18	14	12	e18	16	20	117	15	5.0	4.9	7.7	3.5
21	19	15	14	e19	19	20	154	13	4.9	4.7	5.8	3.7
22	19	16	11	e19	18	20	159	10	4.9	4.4	5.1	3.9
23	18	14	11	e15	17	20	124	8.9	5.1	4.5	4.5	4.3
24	17	14	13	e13	17	21	151	8.8	5.1	4.8	4.3	4.5
25	17	14	11	e16	17	24	154	8.7	5.1	5.3	4.2	4.6
26	18	15	11	e18	14	28	144	8.3	5.0	5.4	3.9	4.7
27	18	16	12	e18	16	32	149	8.8	29	5.6	4.2	4.3
28	17	17	11	e14	19	37	149	8.3	11	4.7	11	4.1
29	17	17	12	e14	20	40	135	7.3	126	7.7	8.9	4.2
30	17	18	12	e13	---	40	113	6.4	23	6.2	5.1	3.7
31	17	---	13	e15	---	41	---	6.4	---	5.7	5.6	---
TOTAL	472	469	410	460	482	693	3383	1035.9	330.7	231.1	151.2	116.8
MEAN	15.2	15.6	13.2	14.8	16.6	22.4	113	33.4	11.0	7.45	4.88	3.89
MAX	19	18	18	19	20	41	207	104	126	24	11	5.5
MIN	11	14	11	12	14	16	30	6.4	4.9	4.4	3.4	3.4
AC-FT	936	930	813	912	956	1370	6710	2050	656	458	300	232

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2000, BY WATER YEAR (WY)

MEAN	14.9	18.2	17.8	18.6	23.1	58.8	280	325	51.7	10.1	14.4	10.8
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1933 - 2000	
ANNUAL TOTAL	22873.7		8234.7			
ANNUAL MEAN	62.7		22.5		70.4	
HIGHEST ANNUAL MEAN					205	1941
LOWEST ANNUAL MEAN					13.4	1977
HIGHEST DAILY MEAN	666	May 1	207	Apr 19	2180	Apr 23 1942
LOWEST DAILY MEAN	8.4	Jul 8	[a]3.4	Aug 11	.60	Aug 18 1956
ANNUAL SEVEN-DAY MINIMUM	8.9	Jul 2	3.4	Sep 10	1.1	Oct 1 1956
INSTANTANEOUS PEAK FLOW			3170	Jun 29	3640	Aug 14 1994
INSTANTANEOUS PEAK STAGE			7.15	Jun 29	8.27	Aug 14 1994
INSTANTANEOUS LOW FLOW			3.0	Aug 10,11	.20	Aug 17 1956
ANNUAL RUNOFF (AC-FT)	45370		16330		50970	
10 PERCENT EXCEEDS	193		40		170	
50 PERCENT EXCEEDS	19		14		18	
90 PERCENT EXCEEDS	12		4.2		5.5	

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 estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 27,600 acres. Chamita ditch (station 08289500), on left bank, and Hernandez ditch (station 08289800), on right bank, bypass gage for irrigation of several hundred acres downstream from station. Flow regulated by El Vado Reservoir (station 08285000) 74.9 mi upstream since January 1935 and Abiquiu Reservoir (station 08286900), 29.3 mi upstream since February 1963. Since May 1971 flow affected by release of transmountain water from Heron Reservoir (station 08284510) 83.0 mi upstream. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e300	122	146	113	162	153	480	591	1350	982	1040	1040
2	e310	118	145	109	161	155	468	511	1430	972	929	1130
3	e290	116	145	e108	161	154	409	463	1430	1150	1070	1120
4	e268	110	145	e107	161	153	364	497	1370	1210	1290	1150
5	e232	105	144	e106	143	155	481	587	1340	1290	1280	1200
6	e234	105	143	e106	138	159	498	718	1340	1330	1330	1200
7	e240	104	142	e107	137	159	512	690	1310	1360	1420	1210
8	e245	101	145	e106	136	156	523	697	1360	1430	1370	1310
9	e250	104	149	e107	121	155	535	855	1450	1450	1280	1290
10	e255	101	142	e109	117	157	565	916	1440	1450	1260	1200
11	e247	100	131	e110	116	152	682	900	1430	1410	1250	1160
12	e242	105	114	e111	115	149	637	920	1450	1420	1280	1070
13	e245	105	117	113	117	149	649	1080	1490	1470	1250	1070
14	248	107	115	111	117	277	692	1090	1490	1320	1150	1060
15	309	103	e114	114	115	425	628	1090	1480	1170	1060	1080
16	354	100	e113	114	138	e695	588	1070	1480	1150	1060	1130
17	359	117	e111	113	147	e920	642	1070	1480	1180	1140	1120
18	337	121	e111	114	138	e942	928	1060	1470	762	1210	1100
19	221	121	e112	113	154	920	984	1050	1490	790	1070	1010
20	215	e121	e113	113	155	685	634	1000	1560	722	741	977
21	210	e121	e112	155	156	600	616	991	1520	1360	706	858
22	215	124	e111	164	155	705	581	956	1440	1460	928	850
23	195	e122	e111	162	153	654	593	957	1430	1370	1060	789
24	194	e120	e110	161	150	481	662	1060	1380	1230	1090	780
25	344	e122	e109	166	153	476	641	1230	1400	1340	1170	749
26	266	e127	e110	171	146	476	566	1240	1410	1390	1170	650
27	260	128	111	162	150	493	576	1170	1600	1490	1080	562
28	261	129	112	158	153	611	592	1160	1490	1440	1030	487
29	262	129	112	158	153	606	648	1150	1340	1460	993	457
30	223	142	111	159	---	614	617	1150	1220	1320	882	461
31	142	---	113	161	---	610	---	1170	---	1260	960	---
TOTAL	7973	3450	3819	3981	4118	13196	17991	29089	42870	39138	34549	29270
MEAN	257	115	123	128	142	426	600	938	1429	1263	1114	976
MAX	359	142	149	171	162	942	984	1240	1600	1490	1420	1310
MIN	142	100	109	106	115	149	364	463	1220	722	706	457
AC-FT	15810	6840	7570	7900	8170	26170	35690	57700	85030	77630	68530	58060
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2000, BY WATER YEAR (WY)												
MEAN	319	318	329	224	280	483	1114	1571	1097	624	476	434
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	77.3	63.5	66.6	85.1	120	204	117	170	95.5	83.1
(WY)	1979	1990	1975	1975	1978	1977	1977	1972	1976	1972	1979	1974

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1971 - 2000!	
ANNUAL TOTAL	151574		229444			
ANNUAL MEAN	415		627		[b]607	
HIGHEST ANNUAL MEAN					923	1987
LOWEST ANNUAL MEAN					234	1972
HIGHEST DAILY MEAN	2300	May 20	1600	Jun 27	3570	May 5 1985
LOWEST DAILY MEAN	87	Jan 6	100	Nov 11,16	1.2	Sep 16 1971
ANNUAL SEVEN-DAY MINIMUM	93	Jan 1	103	Nov 5	1.7	Sep 10 1971
INSTANTANEOUS PEAK FLOW			3190	Jul 29	[c]15000	May 22 1920
INSTANTANEOUS PEAK STAGE			6.59	Jul 29	[d]11.68	Sep 1 1994
INSTANTANEOUS LOW FLOW			[a]94	Dec 27		
ANNUAL RUNOFF (AC-FT)	300600		455100		439500	
10 PERCENT EXCEEDS	1130		1370		1680	
50 PERCENT EXCEEDS	228		512		345	
90 PERCENT EXCEEDS	104		112		80	

e Estimated
a Also occurred Jan.2 and 14.
b Average discharge for 58 years (water years 1913-70), 541 ft^3/s, 392,000 acre-ft/yr, prior to release of transmountain water.
c From rating survey extended above 2,000 ft^3/s.
d 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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT												
05...	1400	521	624	103	8.0	8.2	412	25.0	17.5	--	--	--
NOV												
15...	1515	104	624	100	9.1	8.3	484	21.5	10.5	--	--	--
DEC												
09...	1440	147	623	104	11.1	8.2	428	4.5	4.0	--	--	--
JAN												
13...	1050	99	629	102	11.8	7.9	420	7.5	1.5	--	--	--
FEB												
03...	1050	161	626	103	11.7	8.2	430	9.5	2.0	--	--	--
MAR												
08...	1400	154	620	126	11.7	8.5	415	10.0	9.5	--	--	--
29...	1050	596	618	104	10.2	8.3	352	8.0	7.0	130	34	38.5
APR												
13...	1150	693	620	116	10.4	8.2	325	20.0	11.0	--	--	--
MAY												
03...	1530	472	617	104	7.9	8.1	358	28.5	18.0	--	--	--
JUN												
14...	1630	1470	619	112	8.2	8.2	318	28.5	20.0	--	--	--
16...	1010	1480	633	99	8.6	8.2	313	26.0	13.0	120	32	36.4
JUL												
13...	1615	1380	622	116	8.5	8.3	287	27.5	20.5	--	--	--
AUG												
10...	1430	1280	624	106	7.6	8.3	298	28.0	21.5	--	--	--
SEP												
14...	1430	1020	625	105	7.8	8.0	320	30.0	20.0	--	--	--

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
OCT												
05...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
15...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
09...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
13...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
03...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
08...	--	--	--	--	--	--	--	--	--	--	--	--
29...	7.26	1.9	.7	17.5	97	91	112	0	4.2	.2	14.3	74.8
APR												
13...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
03...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	--	--	--	--	--	--	--	--	--	--	--	--
16...	6.84	2.0	.5	13.4	90	87	106	0	3.0	.5	14.1	62.5
JUL												
13...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
10...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
14...	--	--	--	--	--	--	--	--	--	--	--	--

08290000 RIO CHAMA NEAR CHAMITA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	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)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT												
05...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
15...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
09...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
13...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
03...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
08...	--	--	--	--	--	--	--	--	--	--	--	--
29...	<.20	.42	.06	.020	<.020	<.010	<.020	.010	.140	214	66	110
APR												
13...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
03...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	--	--	--	--	--	--	--	--	--	--	--	--
16...	<.20	<.20	.03	<.010	<.020	<.010	<.020	<.010	.040	191	--	55
JUL												
13...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
10...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
14...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	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)	LEAD, DISSOLVED (UG/L AS PB) (01049)
OCT												
05...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
15...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
09...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
13...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
03...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
08...	--	--	--	--	--	--	--	--	--	--	--	--
29...	1	<1	E1.3	68	<1	21	<1.0	<.8	<1	2	E10	<1
APR												
13...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
03...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	--	--	--	--	--	--	--	--	--	--	--	--
16...	2	<1	<2.0	74	<1	19	<1.0	<.8	<1	1	<10	<1
JUL												
13...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
10...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
14...	--	--	--	--	--	--	--	--	--	--	--	--

08290000 RIO CHAMA NEAR CHAMITA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	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)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT											
05...	--	--	--	--	--	--	--	--	--	1350	--
NOV											
15...	--	--	--	--	--	--	--	--	--	94	--
DEC											
09...	--	--	--	--	--	--	--	--	--	1520	--
JAN											
13...	--	--	--	--	--	--	--	--	--	209	13
FEB											
03...	--	--	--	--	--	--	--	--	--	409	9
MAR											
08...	--	--	--	--	--	--	--	--	--	263	14
29...	3	<.3	1	<1	<2.4	<3	<1	1	1	1090	7
APR											
13...	--	--	--	--	--	--	--	--	--	1010	23
MAY											
03...	--	--	--	--	--	--	--	--	--	313	14
JUN											
14...	--	--	--	--	--	--	--	--	--	185	--
16...	2	<.3	1	<1	<2.4	<3	<1	2	<1	177	32
JUL											
13...	--	--	--	--	--	--	--	--	--	639	--
AUG											
10...	--	--	--	--	--	--	--	--	--	2260	--
SEP											
14...	--	--	--	--	--	--	--	--	--	127	--

08291000 SANTA CRUZ RIVER AT CUNDIYO, NM

LOCATION.--Lat 35°57'53", long 105°54'14", in SE$^1/_4$NW$^1/_4$ 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 good except for estimated daily discharges, which are poor. Diversions for irrigation of about 1,000 acres upstream from station. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	13	e11	e8.8	e9.0	7.8	15	41	15	9.6	10	9.1
2	14	12	e10	e8.4	e8.1	7.7	14	39	17	8.1	6.5	9.3
3	14	12	e9.0	e7.7	e8.7	9.3	15	39	19	7.7	6.1	9.2
4	14	12	e8.9	e6.4	e8.6	8.3	14	40	16	7.2	6.9	9.0
5	15	12	e8.4	e7.5	e8.2	9.2	20	42	15	7.3	6.3	8.1
6	15	12	e9.0	e8.0	e7.8	8.7	28	42	14	7.2	7.4	7.4
7	17	12	e9.6	e7.6	e7.4	8.8	29	37	12	9.1	9.0	6.7
8	17	12	e10	e7.3	12	8.2	33	38	12	12	8.4	7.6
9	16	12	e9.4	e8.5	7.8	8.4	32	38	14	8.4	7.9	8.2
10	15	11	e10	e8.2	7.9	8.3	34	34	13	8.8	7.1	6.9
11	14	11	e10	e8.0	7.6	8.1	39	36	12	8.1	7.5	6.5
12	14	11	e9.5	e8.2	e7.2	9.1	28	34	11	8.8	8.4	7.1
13	13	10	e8.5	e8.2	7.4	8.8	32	31	11	12	7.6	6.3
14	14	10	e8.9	e8.5	7.5	9.0	39	30	11	8.0	8.4	5.8
15	14	9.7	e7.4	e8.4	7.6	9.6	41	28	10	8.2	6.7	5.2
16	14	10	e8.6	8.5	e7.2	10	29	28	9.4	7.6	6.1	5.0
17	16	10	e8.2	8.5	7.8	9.5	29	27	10	8.1	12	4.6
18	15	11	e8.5	8.6	7.3	9.7	37	25	10	9.0	41	4.6
19	16	e10	e9.2	8.7	e6.0	9.3	43	25	13	11	47	4.7
20	15	e9.0	e8.2	e8.4	e7.0	10	32	26	9.3	8.1	23	5.4
21	15	e10	e8.8	8.4	7.4	9.9	34	25	8.5	7.4	16	5.9
22	14	e11	e7.9	8.3	7.6	10	33	23	8.9	6.9	14	7.6
23	14	e10	e8.4	e7.7	e7.0	10	31	21	11	6.5	13	7.0
24	14	e9.0	e8.0	e7.0	7.5	11	33	20	9.4	6.4	18	6.9
25	14	e8.2	e8.4	8.8	6.9	13	34	20	8.9	5.5	15	7.2
26	13	e9.8	e8.4	9.4	e5.4	16	37	20	8.9	6.3	13	7.0
27	13	e11	e8.0	8.6	e6.4	19	40	20	8.9	9.4	11	6.7
28	14	e12	e7.6	8.5	e7.0	22	46	20	11	6.5	9.2	6.2
29	14	e12	e8.0	e6.6	7.4	17	52	18	9.7	8.7	10	6.1
30	13	e11	e7.3	e6.2	---	16	47	16	11	9.9	14	6.6
31	13	---	e8.0	e8.2	---	16	---	15	---	12	10	---
TOTAL	447	325.7	271.1	250.1	220.7	337.7	970	898	349.9	259.8	386.5	203.9
MEAN	14.4	10.9	8.75	8.07	7.61	10.9	32.3	29.0	11.7	8.38	12.5	6.80
MAX	17	13	11	9.4	12	22	52	42	19	12	47	9.3
MIN	13	8.2	7.3	6.2	5.4	7.7	14	15	8.5	5.5	6.1	4.6
AC-FT	887	646	538	496	438	670	1920	1780	694	515	767	404

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2000, BY WATER YEAR (WY)

MEAN	15.5	12.3	10.4	9.43	10.2	20.0	50.6	98.4	77.2	28.5	26.2	19.3
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1933 - 2000	
ANNUAL TOTAL	12259.0		4920.4			
ANNUAL MEAN	33.6		13.4		31.6	
HIGHEST ANNUAL MEAN					75.2	1941
LOWEST ANNUAL MEAN					8.93	1950
HIGHEST DAILY MEAN	242	May 25	52	Apr 29	623	Jun 9 1979
LOWEST DAILY MEAN	7.3	Dec 30	4.6	Sep 17,18	1.1	Dec 3 1950
ANNUAL SEVEN-DAY MINIMUM	8.0	Dec 24	5.0	Sep 14	2.2	Sep 11 1956
INSTANTANEOUS PEAK FLOW			110	Jul 13	2420	Sep 24 1931
INSTANTANEOUS PEAK STAGE			2.41	Jul 13	7.80	Sep 24 1931
INSTANTANEOUS LOW FLOW			[a]3.7	Nov 19	.19	Mar 13 1954
ANNUAL RUNOFF (AC-FT)	24320		9760		22870	
10 PERCENT EXCEEDS	79		29		77	
50 PERCENT EXCEEDS	17		9.6		15	
90 PERCENT EXCEEDS	9.5		7.0		7.5	

e Estimated
a Many days

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, 1,960 acre-ft, Jan. 20, elevation 6,825.60 ft; minimum, 553 acre-ft, Sept. 26, elevation 6,789.51 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1702	1520	1703	1909	1972	1852	1934	2015	1572	1080	985	1127
2	1685	1520	1710	1903	1964	1848	1932	2007	1549	1051	984	1129
3	1668	1522	1718	1921	1961	1846	1931	1998	1524	1020	982	1131
4	1651	1522	1724	1927	1959	1841	1929	1993	1496	986	981	1117
5	1619	1522	1730	1940	1953	1837	1931	2000	1490	963	979	1090
6	1617	1523	1738	1946	1949	1834	1935	2007	1492	963	977	1058
7	1607	1526	1746	1952	1945	1839	1936	2012	1470	966	976	1040
8	1603	1528	1753	1958	1941	1842	1937	2007	1440	970	976	995
9	1599	1537	1760	1964	1937	1846	1939	1994	1411	972	977	965
10	1594	1545	1768	1970	1933	1850	1942	1983	1381	973	975	934
11	1589	1553	1775	1976	1929	1853	1949	1977	1350	973	975	927
12	1583	1562	1786	1987	1913	1858	1951	1985	1318	975	975	927
13	1577	1570	1789	1993	1920	1861	1953	1982	1285	976	975	927
14	1572	1578	1795	1999	1916	1865	1959	1980	1279	977	974	927
15	1565	1586	1801	2005	1912	1869	1964	1960	1279	979	973	927
16	1560	1594	1807	2011	1908	1876	1966	1939	1279	981	973	927
17	1556	1602	1814	2017	1894	1880	1970	1917	1278	981	976	927
18	1551	1609	1820	2022	1895	1884	1975	1894	1279	980	1010	926
19	1546	1616	1827	2024	1892	1887	1983	1872	1284	982	1040	926
20	1540	1623	1832	2024	1887	1893	1986	1850	1286	982	1052	926
21	1534	1631	1840	2022	1884	1896	1986	1827	1285	980	1061	926
22	1527	1638	1852	2024	1879	1902	1987	1803	1285	979	1069	934
23	1521	1642	1852	2022	1875	1905	1989	1780	1286	977	1076	934
24	1514	1650	1858	2024	1870	1911	1994	1759	1286	975	1085	934
25	1510	1655	1865	2022	1847	1917	1998	1738	1275	973	1093	934
26	1513	1664	1872	2024	1820	1924	2004	1717	1213	973	1099	934
27	1514	1673	1878	2019	1860	1924	2008	1694	1198	977	1103	934
28	1515	1681	1884	2011	1852	1929	2016	1671	1166	978	1108	934
29	1517	1690	1891	1997	1856	1932	2021	1647	1141	978	1113	934
30	1518	1696	1896	1986	---	1932	2025	1607	1110	979	1113	934
31	1519	---	1903	1980	---	1933	---	1568	---	982	1113	---
MAX	1700	1700	1900	2020	1970	1930	2020	2020	1570	1080	1110	1130
MIN	1510	1520	1700	1900	1820	1830	1930	1570	1110	963	973	926
(+)	6817.09	6820.69	6824.52	6824.32	6820.62	6820.53	6820.68	6811.14	6798.86	6793.72	6795.98	e6796.05
(++)	-200	+180	+200	-10	-200	0	+10	-450	-447	-144	+60	e+02

CAL YR 1999 MAX 2041 MIN 1510
WTR YR 2000 MAX 2025 MIN 926

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. During periods of spill at Nambe Falls Dam, record computed at site 1,100 ft downstream, site of discontinued station 08294300, Rio Nambe at Nambe Falls.

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	17	5.5	.69	.65	10	6.8	6.7	15	21	20	2.9	2.5
2	18	5.5	.70	.63	9.2	6.9	6.5	18	22	19	4.8	2.6
3	18	5.5	.65	.62	7.2	6.8	6.4	21	23	19	6.0	2.7
4	18	5.5	.64	.59	7.2	6.8	6.4	17	24	19	5.0	10
5	18	5.6	.63	.61	7.2	6.9	6.4	12	12	14	7.1	16
6	18	5.6	.63	.61	7.2	4.7	6.4	12	6.2	3.1	9.4	18
7	14	5.5	.63	.60	7.2	1.9	7.6	12	20	3.0	6.6	18
8	10	2.8	.63	.62	7.2	1.9	9.8	18	25	3.0	2.6	18
9	10	.66	.63	.62	7.2	1.8	9.6	20	25	3.0	2.6	18
10	9.9	.66	.64	.63	7.3	1.8	9.4	20	25	3.0	2.6	18
11	10	.67	.65	.63	7.2	1.8	9.5	17	25	3.0	2.5	6.6
12	10	.68	.64	.64	7.2	1.8	9.5	11	26	3.1	2.5	2.4
13	10	.70	.62	.63	7.2	1.8	9.5	11	25	3.0	2.6	2.4
14	10	.70	.61	.63	7.1	1.8	9.5	14	9.4	3.0	2.6	2.4
15	10	.70	.60	.62	7.1	1.9	9.5	21	4.7	2.9	2.5	2.6
16	11	.70	.61	.63	7.1	1.9	9.5	21	5.0	2.9	2.4	2.6
17	11	.69	.62	.63	7.1	1.9	9.5	21	5.1	3.1	2.4	2.6
18	11	.70	.63	.63	7.1	1.9	9.5	21	5.1	3.0	2.5	2.6
19	10	.69	.63	.67	7.1	1.9	9.1	21	5.1	2.9	2.6	2.7
20	11	.69	.61	1.1	6.8	1.9	9.9	20	4.9	2.9	2.5	2.7
21	11	.69	.62	2.6	6.9	2.0	11	20	4.9	2.9	2.5	2.7
22	11	.69	.60	3.7	6.8	2.0	11	20	4.9	2.9	2.5	2.7
23	11	.68	.61	3.8	6.8	2.0	11	20	4.8	2.9	2.5	2.7
24	11	.69	.60	3.5	6.8	2.0	11	20	4.4	2.9	2.5	2.8
25	8.8	.67	.62	4.5	6.8	2.0	11	20	9.1	2.6	2.5	2.7
26	5.2	.69	.62	5.3	6.8	2.0	11	21	23	2.5	2.5	2.7
27	5.3	.70	.61	7.5	6.8	4.3	11	21	22	2.6	2.5	2.7
28	5.3	.71	.62	9.8	6.8	6.6	11	21	21	2.7	2.5	2.9
29	5.4	.71	.63	9.8	6.8	6.6	7.3	20	17	2.8	2.5	2.9
30	5.5	.70	.63	10	---	6.6	14	21	17	2.7	2.5	2.9
31	5.5	---	.63	10	---	6.7	---	21	---	2.6	2.5	---
TOTAL	339.9	56.67	19.48	83.49	209.2	107.7	279.5	568	446.6	166.0	102.2	181.1
MEAN	11.0	1.89	.63	2.69	7.21	3.47	9.32	18.3	14.9	5.35	3.30	6.04
MAX	18	5.6	.70	10	10	6.9	14	21	26	20	9.4	18
MIN	5.2	.66	.60	.59	6.8	1.8	6.4	11	4.4	2.5	2.4	2.4
AC-FT	674	112	39	166	415	214	554	1130	886	329	203	359

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2000, BY WATER YEAR (WY)

MEAN	7.30	4.28	2.36	2.18	3.03	6.09	16.4	38.6	47.3	22.7	16.6	12.4
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1979 - 2000	
ANNUAL TOTAL	4869.15		2559.84			
ANNUAL MEAN	13.3		6.99		14.4	
HIGHEST ANNUAL MEAN					25.7	1985
LOWEST ANNUAL MEAN					5.42	1981
HIGHEST DAILY MEAN	68	Jul 7	26	Jun 12	236	Jun 9 1979
LOWEST DAILY MEAN	.60	Dec 15	.59	Jan 4	.00	Dec 31 1993
ANNUAL SEVEN-DAY MINIMUM	.61	Dec 20	.61	Jan 3	.21	Nov 12 1980
INSTANTANEOUS PEAK FLOW					[a]312	Jun 9 1979
INSTANTANEOUS PEAK STAGE					1.96	Jun 9 1979
INSTANTANEOUS LOW FLOW					.13	May 3 1981
ANNUAL RUNOFF (AC-FT)	9660		5080		10470	
10 PERCENT EXCEEDS	30		19		39	
50 PERCENT EXCEEDS	11		5.1		8.0	
90 PERCENT EXCEEDS	.69		.63		.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$^1/_4$SE$^1/_4$ 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, 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 estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 425 ft^3/s, July 19, 1938, 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 22 ft^3/s, Aug. 18; minimum daily discharge, 0.21 ft^3/s, Aug. 16.

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	1.2	.91	e.80	e.80	e1.0	1.0	2.2	e3.9	1.2	.96	e.76	e1.2
2	1.1	.88	e.81	e.82	e.95	.89	2.0	e3.8	1.5	.84	e.80	e1.0
3	1.1	.88	e.82	e.79	e.94	1.1	2.0	e3.9	1.7	.87	.38	e.95
4	1.1	.88	e.84	e.71	e.94	1.0	1.8	e3.8	1.4	.74	.37	e.95
5	1.1	.86	e.94	.63	e.94	.99	2.1	e3.7	1.3	.71	.36	e.90
6	1.1	.85	e1.0	e.74	e.96	.95	2.8	3.6	1.3	.72	.38	e.85
7	1.2	.85	e.98	e.81	e.94	.90	3.7	3.4	1.2	e.77	.39	e.80
8	1.3	.85	e.90	e.84	e.92	1.2	3.4	3.3	1.2	e.91	.35	e.80
9	1.2	.85	e.82	e.88	e.98	1.2	4.0	3.0	1.2	e.85	.33	e.90
10	1.1	.81	e.80	e.90	e.96	.96	4.2	3.0	1.1	e.84	.37	e.75
11	1.1	.81	e.81	e.98	1.0	1.3	5.0	2.9	1.0	e.89	.32	e.65
12	1.0	.80	e.78	e.94	.99	1.5	4.5	2.7	.99	e.84	.33	e.60
13	1.0	.80	e.71	e.83	.96	1.4	4.7	2.6	.95	e.80	.41	e.60
14	1.0	.80	e.68	e.82	1.0	1.3	5.2	2.5	.93	e.68	.32	e.55
15	.99	.79	e.80	e.69	e.96	1.3	5.2	2.4	.91	e.80	.29	e.55
16	.98	.79	e.86	.67	e.98	1.4	4.8	2.3	.87	e.85	.27	e.50
17	.91	.79	e.94	.67	e.96	1.8	4.8	2.2	.88	e.76	1.1	e.50
18	1.2	.81	e.92	.82	.96	1.5	5.2	2.1	.90	e.78	6.2	.55
19	1.3	.91	e.90	.83	e1.0	2.0	5.2	2.1	2.4	e.81	12	.55
20	1.1	1.1	e.88	.82	1.0	1.5	5.0	2.0	1.2	e.59	5.6	.55
21	1.1	.88	e.84	.91	.98	1.4	e4.8	1.9	1.1	e.55	3.3	.54
22	1.0	.74	e.83	.87	.97	1.4	e4.8	1.9	1.0	e.52	2.6	.77
23	1.0	.81	e.80	.83	.96	1.4	e4.7	1.8	1.2	e.53	2.1	.57
24	.97	e.82	e.76	e.93	.95	1.5	e4.6	1.7	.96	e.57	2.6	.56
25	.95	e.86	e.78	e.93	e.96	1.8	e4.5	1.8	.91	e.62	2.4	.57
26	.94	e.84	e.73	e.95	e.98	2.0	e4.4	1.7	.88	e.68	1.8	.58
27	.93	e.88	e.72	e.92	e1.0	2.2	e4.2	1.6	.97	e.72	1.6	.53
28	.92	.87	e.70	e.99	1.0	2.5	e4.0	1.5	1.0	e.62	1.5	.52
29	.92	.84	e.73	e1.2	1.0	2.6	e3.9	1.4	.97	e.64	e1.4	.53
30	.86	.83	e.74	e1.1	---	2.5	e3.9	1.3	1.1	e.69	e1.3	.53
31	.91	---	e.78	e1.0	---	2.3	---	1.2	---	e.71	e1.2	---
TOTAL	32.58	25.39	25.40	26.62	28.14	46.79	121.6	77.0	34.22	22.86	53.13	20.40
MEAN	1.05	.85	.82	.86	.97	1.51	4.05	2.48	1.14	.74	1.71	.68
MAX	1.3	1.1	1.0	1.2	1.0	2.6	5.2	3.9	2.4	.96	12	1.2
MIN	.86	.74	.68	.63	.92	.89	1.8	1.2	.87	.52	.27	.50
AC-FT	65	50	50	53	56	93	241	153	68	45	105	40

CAL YR 1999 TOTAL 1034.60 MEAN 2.83 MAX 13 MIN .60 AC-FT 2050
WTR YR 2000 TOTAL 514.13 MEAN 1.40 MAX 12 MIN .27 AC-FT 1020

e Estimated

08305030 LITTLE TESUQUE CREEK AT BISHOPS LODGE NEAR SANTA FE, NM

LOCATION.--Lat 35°43'51", long 105°54'39", in NW $^1/_4$,SW $^1/_4$ sec. 5, T. 17 N., R. 10 E., Santa Fe County, Hydrologic Unit 13020201, on right bank 100 ft downstream of entrance of entrance to Bishops Lodge, and 9 mi northeast of Santa Fe.

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 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.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge 14 ft^3/s, Aug. 18, gage height 4.33; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	.81	.19
2	---	---	---	---	---	---	---	---	---	---	2.4	.34
3	---	---	---	---	---	---	---	---	---	---	2.2	.42
4	---	---	---	---	---	---	---	---	---	---	2.7	.27
5	---	---	---	---	---	---	---	---	---	---	4.0	.19
6	---	---	---	---	---	---	---	---	---	---	4.8	.25
7	---	---	---	---	---	---	---	---	---	---	4.0	.25
8	---	---	---	---	---	---	---	---	---	---	4.5	.16
9	---	---	---	---	---	---	---	---	---	---	6.9	.13
10	---	---	---	---	---	---	---	---	---	.10	6.0	.11
11	---	---	---	---	---	---	---	---	---	.02	5.1	.09
12	---	---	---	---	---	---	---	---	---	.01	4.2	.08
13	---	---	---	---	---	---	---	---	---	.01	3.5	.12
14	---	---	---	---	---	---	---	---	---	.02	3.1	.08
15	---	---	---	---	---	---	---	---	---	.01	2.8	.07
16	---	---	---	---	---	---	---	---	---	.01	2.1	.71
17	---	---	---	---	---	---	---	---	---	.53	1.6	.61
18	---	---	---	---	---	---	---	---	---	.10	1.4	.31
19	---	---	---	---	---	---	---	---	---	.07	1.1	.20
20	---	---	---	---	---	---	---	---	---	.03	1.0	.17
21	---	---	---	---	---	---	---	---	---	.03	.95	.13
22	---	---	---	---	---	---	---	---	---	.04	.84	.09
23	---	---	---	---	---	---	---	---	---	.16	.82	.07
24	---	---	---	---	---	---	---	---	---	.06	.67	.06
25	---	---	---	---	---	---	---	---	---	.02	.56	.05
26	---	---	---	---	---	---	---	---	---	.01	.51	.03
27	---	---	---	---	---	---	---	---	---	.01	.45	.02
28	---	---	---	---	---	---	---	---	---	.00	.37	.02
29	---	---	---	---	---	---	---	---	---	.00	.33	.03
30	---	---	---	---	---	---	---	---	---	.00	.27	.03
31	---	---	---	---	---	---	---	---	---	.51	.23	---
TOTAL	---	---	---	---	---	---	---	---	---	---	70.21	5.28
MEAN	---	---	---	---	---	---	---	---	---	---	2.26	.18
MAX	---	---	---	---	---	---	---	---	---	---	6.9	.71
MIN	---	---	---	---	---	---	---	---	---	---	.23	.02
AC-FT	---	---	---	---	---	---	---	---	---	---	139	10

08305030 LITTLE TESUQUE CREEK AT BISHOPS LODGE NEAR SANTA FE, NM--Continued

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	.02	.01	.00	.00	e.00	e.00	.00	.00	.00	.00	.01	.10
2	.02	.01	.00	.00	e.00	e.00	.00	.04	.01	.00	.00	.10
3	.01	.01	.00	.00	e.00	e.00	.00	.00	.00	.00	.00	.09
4	.01	.01	.00	.00	e.00	e.00	.00	.00	.00	.00	.00	.08
5	.01	.01	.00	.00	e.00	e.00	.00	.00	.00	.00	.00	.06
6	.00	.01	.00	.00	e.00	e.00	.00	.00	.00	.00	.00	.06
7	.00	.01	.00	.00	e.00	e.00	.00	.00	.06	.08	.00	.05
8	.01	.01	.00	.00	e.00	e.00	.00	.00	.00	.01	.00	.03
9	.00	.00	.00	.00	e.00	e.00	.00	.00	.00	.05	.00	.05
10	.00	.01	.00	.00	e.00	.00	.00	.00	.00	.02	.00	.01
11	.00	.01	.01	.00	e.00	.00	.01	.00	.00	.00	.00	.04
12	.00	.01	.02	.00	e.00	.00	.00	.00	.00	e.00	.00	.02
13	.00	.01	.00	.00	e.00	.00	.00	.00	.00	.36	.00	.00
14	.00	.01	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	e.00	.02	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
17	.02	.01	.00	.00	e.00	.00	.00	.00	.00	.00	.02	.00
18	.03	.00	.00	.00	e.00	.00	.00	.01	.00	.00	.82	.00
19	.01	.00	.00	.00	e.00	.00	.04	.00	.01	.00	2.1	.00
20	.01	.00	.00	.00	e.00	.00	.04	.00	.00	.00	.17	.00
21	.02	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
22	.03	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
23	.03	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
24	.04	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
25	.04	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
26	.04	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
27	.03	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.02	.00
28	.02	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.05	.00
29	.01	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.09	.00
30	.03	.00	.00	.00	---	.00	.00	.00	.12	.01	.09	.00
31	.02	---	.00	.00	---	.00	---	.00	---	.01	.10	---
TOTAL	0.46	0.14	0.03	0.00	0.00	0.02	0.09	0.05	0.20	0.54	3.47	0.69
MEAN	.015	.005	.001	.000	.000	.001	.003	.002	.007	.017	.11	.023
MAX	.04	.01	.02	.00	.00	.02	.04	.04	.12	.36	2.1	.10
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.9	.3	.06	.00	.00	.04	.2	.1	.4	1.1	6.9	1.4

WTR YR 2000 TOTAL 5.69 MEAN .016 MAX 2.1 MIN .00 AC-FT 11

e Estimated

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

LOCATION.--Lat 35°52'29", long 106°08'30", in SW$^1/_4$SW$^1/_4$ 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1190	812	988	749	719	793	1000	1220	1550	1200	1350	1210
2	1240	818	1010	761	720	842	950	1170	1690	1140	1180	1300
3	1220	845	991	756	740	856	857	1090	1730	1280	1250	1310
4	1130	874	969	696	803	842	866	1090	1630	1320	1500	1320
5	1070	847	873	689	838	833	974	1130	1560	1350	1520	1360
6	1040	797	838	703	832	838	1060	1260	1580	1340	1540	1340
7	1050	761	830	702	824	831	1110	1240	1540	1340	1680	1290
8	1060	741	768	675	825	832	1090	1210	1540	1500	1630	1550
9	1070	727	782	672	807	821	1080	1370	1640	1510	1460	1610
10	1060	709	747	677	803	818	1030	1450	1650	1510	1400	1420
11	1070	694	715	711	819	781	1220	1370	1620	1450	1420	1360
12	1020	761	719	721	832	708	1250	1300	1630	1450	1460	1240
13	973	860	716	732	809	684	1190	1460	1650	1620	1450	1260
14	949	858	714	704	781	734	1260	1440	1630	1590	1330	1230
15	991	850	685	707	763	889	1210	1400	1650	1350	1220	1250
16	1070	844	602	721	781	1160	1140	1400	1620	1440	1160	1310
17	1160	854	659	735	804	1480	1130	1410	1590	1440	1270	1300
18	1200	915	665	755	815	1520	1400	1400	1590	1300	1590	1320
19	1020	941	711	777	808	1500	1530	1370	1620	1020	1740	1200
20	1030	916	736	789	820	1220	1200	1310	1660	1060	1110	1130
21	1090	879	723	844	810	1100	1100	1330	1650	1380	998	1030
22	1060	891	723	883	794	1220	1050	1300	1580	1720	1100	1040
23	970	870	685	865	795	1190	1050	1200	1600	1670	1250	958
24	865	850	680	837	807	949	e1140	1290	1540	1420	1250	954
25	1040	851	713	798	825	925	e1190	1460	1520	1550	1350	949
26	986	823	724	863	778	918	e1020	1530	1500	1700	1350	853
27	940	845	713	982	788	915	1030	1420	1600	1860	1320	777
28	940	846	701	963	813	1060	1100	1430	1740	1820	1320	708
29	956	885	711	917	793	1110	1250	1420	1500	1680	1300	670
30	936	925	720	814	---	1100	1210	1440	1500	1950	1100	684
31	882	---	734	730	---	1120	---	1420	---	1620	1150	---
TOTAL	32278	25089	23545	23928	23146	30589	33687	41330	48100	45580	41748	34933
MEAN	1041	836	760	772	798	987	1123	1333	1603	1470	1347	1164
MAX	1240	941	1010	982	838	1520	1530	1530	1740	1950	1740	1610
MIN	865	694	602	672	719	684	857	1090	1500	1020	998	670
AC-FT	64020	49760	46700	47460	45910	60670	66820	81980	95410	90410	82810	69290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2000, BY WATER YEAR (WY)

MEAN	839	998	946	822	943	1389	2260	3696	3295	1593	1014	914
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1971 - 2000	
ANNUAL TOTAL	545552		403953			
ANNUAL MEAN	1495		1104		1560	
HIGHEST ANNUAL MEAN					2764	1987
LOWEST ANNUAL MEAN					602	1977
HIGHEST DAILY MEAN	5090	May 25	1950	Jul 30	12000	May 11 1985
LOWEST DAILY MEAN	602	Dec 16	602	Dec 16	195	Aug 4 1977
ANNUAL SEVEN-DAY MINIMUM	655	Mar 20	679	Dec 13	229	Sep 11 1971
INSTANTANEOUS PEAK FLOW			3760	Jul 30	24400	May 23 1920
INSTANTANEOUS PEAK STAGE			5.96	Jul 30	14.50	Sep 29 1904
INSTANTANEOUS LOW FLOW			388	Jul 19	195	Aug 4 1977
ANNUAL RUNOFF (AC-FT)	1082000		801200		1130000	
10 PERCENT EXCEEDS	2890		1570		3600	
50 PERCENT EXCEEDS	1040		1060		1010	
90 PERCENT EXCEEDS	726		721		504	

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, 9,830 mg/L, Aug. 19; minimum daily mean, 41 mg/L, Feb. 27.
SEDIMENT LOAD: Maximum daily, 49,000 tons, Aug. 19; minimum daily, 80 tons, Jan. 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT												
12...	1130	1040	630	120	10.3	8.0	305	21.0	13.5	--	--	--
NOV												
18...	1545	917	622	111	10.4	8.2	312	13.5	9.0	--	--	--
DEC												
10...	1215	764	620	105	12.0	8.0	324	7.0	1.5	--	--	--
28...	1215	705	631	104	12.0	8.0	329	9.5	1.5	130	10	38.6
JAN												
11...	1200	699	626	91	10.6	8.3	341	12.5	1.0	130	--	39.0
28...	1100	985	625	114	12.2	8.1	318	6.5	4.0	120	--	36.2
MAR												
15...	1300	897	621	99	9.2	8.4	359	21.0	9.5	130	--	39.3
28...	1040	1060	618	104	9.7	8.5	378	12.5	9.0	140	32	41.5
MAY												
11...	1015	1410	620	103	8.7	8.4	400	23.0	13.5	140	34	42.6
JUN												
01...	1330	1570	626	106	8.3	8.4	360	31.0	17.5	130	--	40.3
15...	0930	1670	625	99	8.1	8.3	337	25.0	15.5	120	29	38.0
AUG												
18...	1400	1820	620	113	7.5	8.4	311	21.4	25.2	--	--	--
31...	1100	1180	632	104	7.9	8.3	330	24.0	19.3	120	--	36.1
SEP												
07...	1030	1250	632	106	8.1	8.2	326	29.0	19.0	130	--	39.1

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
OCT											
12...	--	--	--	--	--	--	--	--	--	--	--
NOV											
18...	--	--	--	--	--	--	--	--	--	--	--
DEC											
10...	--	--	--	--	--	--	--	--	--	--	--
28...	7.24	3.0	.8	20.8	122	--	142	0	7.5	.4	28.7
JAN											
11...	7.45	3.2	.9	22.8	123	--	--	--	8.2	.5	30.6
28...	6.96	3.2	.8	19.3	109	--	--	--	6.8	.4	27.9
MAR											
15...	7.63	3.0	.8	22.0	112	--	--	--	6.7	.4	22.0
28...	8.12	3.0	.9	23.1	114	105	124	2	6.2	.4	.1
MAY											
11...	8.35	3.2	1	26.0	112	107	130	0	6.3	.3	17.0
JUN											
01...	7.59	2.7	.7	19.6	105	--	--	--	4.4	.3	16.2
15...	7.27	2.4	.7	17.3	99	96	117	0	4.4	.3	15.5
AUG											
18...	--	--	--	--	--	--	--	--	--	--	--
31...	7.03	1.6	.6	14.5	100	--	--	--	3.1	.3	16.1
SEP											
07...	7.47	1.9	.6	15.2	97	--	--	--	3.0	.2	15.9

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	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)
OCT											
12...	--	--	--	--	--	--	--	--	--	--	--
NOV											
18...	--	--	--	--	--	--	--	--	--	--	--
DEC											
10...	--	--	--	--	--	--	--	--	--	--	--
28...	41.9	<.20	<.20	.05	<.2	.020	<2	.300	<.010	.050	.040
JAN											
11...	41.0	--	--	--	--	--	--	--	--	--	--
28...	39.1	--	--	--	--	--	--	--	--	--	--
MAR											
15...	60.6	--	--	--	--	--	--	--	--	--	--
28...	71.0	<.20	.43	.06	23	.040	5	<.020	<.010	<.020	.020
MAY											
11...	78.8	<.20	.45	.04	--	<.010	--	<.020	<.010	<.020	<.010
JUN											
01...	66.7	--	--	--	--	--	--	--	--	--	--
15...	63.9	<.20	.28	.03	--	<.010	--	<.020	<.010	<.020	<.010
AUG											
18...	--	--	--	--	--	--	--	--	--	--	--
31...	56.8	--	--	--	--	--	--	--	--	--	--
SEP											
07...	59.9	--	--	--	--	--	--	--	--	--	--

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)
OCT											
12...	--	--	--	--	--	--	--	--	--	--	--
NOV											
18...	--	--	--	--	--	--	--	--	--	--	--
DEC											
10...	--	--	--	--	--	--	--	--	--	--	--
28...	.040	<40	1.9	2.3	220	K2	K3	K7	4	<1	E1.4
JAN											
11...	--	--	2.5	2.0	226	K16	K4	K13	3	<1	2.1
28...	--	--	2.2	3.9	205	K38	42	46	5	<1	E1.8
MAR											
15...	--	--	2.5	5.0	229	63	98	170	2	<1	2.2
28...	.110	370	3.3	4.8	217	100	290	230	2	<1	E1.6
MAY											
11...	.210	--	4.0	5.7	247	60	80	180	<14	<1	E1.9
JUN											
01...	--	--	3.4	5.0	221	K21	K16	130	<2	<1	E1.3
15...	.080	--	3.4	4.2	207	170	78	120	3	<1	<2.0
AUG											
18...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	2.9	3.9	196	33	170	670	4	<1	E1.5
SEP											
07...	--	--	2.7	3.8	201	83	80	250	3	<1	E1.5

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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)	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)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
OCT											
12...	--	--	--	--	--	--	--	--	--	--	--
NOV											
18...	--	--	--	--	--	--	--	--	--	--	--
DEC											
10...	--	--	--	--	--	--	--	--	--	--	--
28...	52	<1	40	<1.0	E.5	<1	1	E10	<1	15	<.3
JAN											
11...	51	<1	43	<1.0	<.8	<1	<1	10	<1	16	--
28...	48	<1	44	<1.0	<.8	<1	1	10	<1	13	--
MAR											
15...	57	<1	39	<1.0	<1.0	<1	<1	<10	<1	10	--
28...	65	<1	34	<1.0	<.8	<1	2	<10	<1	3	<.3
MAY											
11...	69	<1	44	<1.0	<.8	<1	2	E10	<1	3	<.3
JUN											
01...	65	<1	36	<1.0	<.8	<1	1	<10	<1	4	<.3
15...	71	<1	30	<1.0	<.8	<1	1	<10	<1	2	<.3
AUG											
18...	--	--	--	--	--	--	--	--	--	--	--
31...	88	<1	28	<1.0	<.8	<1	1	<10	<1	8	<.3
SEP											
07...	94	<1	21	<1.0	<.8	<1	1	<10	<1	2	<.3

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)
OCT											
12...	--	--	--	--	--	--	--	--	--	--	--
NOV											
18...	--	--	--	--	--	--	--	--	--	--	--
DEC											
10...	--	--	--	--	--	--	--	--	--	--	--
28...	5	1	<2.4	<3	<1	1	<1	<.1	2.0	1.1	2
JAN											
11...	5	<1	<2.4	--	<1	2	--	--	--	--	--
28...	4	1	<2.4	--	<1	3	--	--	--	--	--
MAR											
15...	4	<1	<2.4	--	<1	3	--	--	--	--	--
28...	4	<1	<2.4	<3	<1	<1	<1	<.1	9.6	1.9	100
MAY											
11...	3	1	<2.4	<3	<1	<3	--	--	--	--	--
JUN											
01...	3	<1	<2.4	<3	<1	<2	--	--	--	--	--
15...	3	<1	<2.4	<3	<1	<1	--	--	--	--	--
AUG											
18...	--	--	--	--	--	--	--	--	--	--	--
31...	3	1	<2.4	<3	<1	2	--	--	--	--	--
SEP											
07...	3	<1	<2.4	<3	<1	2	--	--	--	--	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB) (01052)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G) (01053)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L) (09511)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT											
12...	--	--	--	--	--	--	--	--	--	115	--
NOV											
18...	--	--	--	--	--	--	--	--	--	66	--
DEC											
10...	--	--	--	--	--	--	--	--	--	49	--
28...	2500	2.9	62	<.01	5	.05	.02	.92	4	58	46
JAN											
11...	--	--	--	--	--	--	--	--	3	44	59
28...	--	--	--	--	--	--	--	--	3	148	36
MAR											
15...	--	--	--	--	--	--	--	--	3	487	26
28...	16000	3.7	300	<.01	140	.07	.02	.05	2	578	12
MAY											
11...	--	--	--	--	--	.07	.02	.06	2	1200	14
JUN											
01...	--	--	--	--	--	--	--	--	1	900	10
15...	--	--	--	--	--	.08	.02	.04	1	450	13
AUG											
18...	--	--	--	--	--	--	--	--	--	3700	69
31...	--	--	--	--	--	--	--	--	1	--	--
SEP											
07...	--	--	--	--	--	--	--	--	1	--	--

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MEAN CONCENTRATION (MG/L)	LOAD (TONS/DAY)	MEAN CONCENTRATION (MG/L)	LOAD (TONS/DAY)	MEAN CONCENTRATION (MG/L)	LOAD (TONS/DAY)	MEAN CONCENTRATION (MG/L)	LOAD (TONS/DAY)	MEAN CONCENTRATION (MG/L)	LOAD (TONS/DAY)	MEAN CONCENTRATION (MG/L)	LOAD (TONS/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	378	1240	176	387	241	643	43	87	70	136	571	1220
2	428	1430	61	135	254	690	50	104	67	132	158	357
3	479	1580	171	391	158	423	95	193	70	140	171	395
4	453	1390	113	267	135	352	100	189	71	154	197	449
5	353	1020	129	295	126	298	78	148	68	154	91	204
6	267	749	129	278	138	316	70	132	142	320	88	199
7	215	612	98	201	134	310	47	89	96	212	71	158
8	250	719	154	308	87	182	64	117	104	232	96	216
9	200	578	159	313	90	191	55	101	83	180	100	222
10	212	607	99	189	58	117	44	80	89	192	97	214
11	216	626	119	223	101	196	70	134	77	171	128	270
12	119	328	142	301	89	174	56	109	89	200	162	310
13	162	426	212	494	85	164	54	106	72	158	97	179
14	219	562	139	323	82	159	54	102	60	127	136	275
15	219	589	184	423	75	138	50	95	76	158	476	1150
16	304	874	150	341	89	154	60	116	59	124	1970	6640
17	348	1090	107	246	84	150	63	126	57	125	4160	16600
18	452	1470	59	146	78	140	86	176	50	111	2480	10200
19	342	944	137	349	65	124	85	179	49	108	3410	13800
20	267	744	220	544	64	127	90	191	48	106	2980	9780
21	321	941	198	470	59	115	86	195	50	110	649	1970
22	311	893	110	265	59	116	67	160	43	92	1100	3610
23	143	377	108	253	59	109	101	237	59	126	1180	3800
24	186	434	93	213	60	111	110	249	52	113	938	2410
25	188	528	135	310	61	118	101	217	52	115	367	919
26	406	1080	183	406	80	157	76	177	56	118	213	529
27	148	376	127	289	85	163	91	240	41	87	177	436
28	84	212	172	393	74	141	98	254	91	202	709	2050
29	118	304	146	348	93	179	87	216	127	272	1270	3800
30	128	324	154	386	64	124	79	174	---	---	720	2130
31	194	460	---	---	53	106	72	142	---	---	760	2310
TOTAL	---	23507	---	9487	---	6487	---	4835	---	4475	---	86802

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

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	574	1570	844	2780	797	3330	987	3210	1020	3700	877	2860
2	539	1380	960	3050	900	4120	713	2200	486	1550	1310	4590
3	304	705	862	2540	1090	5120	868	3010	560	1890	1360	4830
4	748	1740	1050	3110	1020	4470	884	3150	1550	6270	1310	4640
5	815	2160	934	2860	946	3980	837	3060	1950	8020	1460	5350
6	520	1490	962	3310	750	3210	665	2420	3160	13300	1450	5230
7	694	2080	1220	4120	416	1730	138	502	787	3560	1370	4770
8	469	1380	847	2780	269	1120	396	1610	564	2480	3770	17400
9	706	2060	1300	4860	541	2400	582	2380	656	2610	3560	15600
10	661	1850	823	3210	362	1610	934	3810	744	2820	1440	5510
11	733	2420	748	2760	852	3730	798	3120	973	3730	1060	3880
12	598	2010	793	2800	880	3860	224	875	1390	5450	783	2630
13	884	2890	781	3090	697	3100	1980	9860	1160	4550	810	2750
14	769	2660	2100	8200	412	1820	8040	35000	937	3380	784	2610
15	728	2380	1200	4530	296	1320	3150	11500	1420	4660	871	2940
16	887	2740	1540	5840	163	712	4180	17100	1840	5730	832	2950
17	442	1350	1420	5380	255	1100	3990	15400	1850	6370	779	2730
18	1710	6770	1600	6030	114	492	3340	12800	4620	20400	830	2950
19	2670	11100	1230	4550	127	558	1440	5330	9830	49000	795	2580
20	2170	7210	1480	5260	717	3210	1030	3640	4940	14900	768	2350
21	624	1880	1340	4810	874	3900	1230	5330	1630	4460	665	1850
22	520	1480	1310	4600	648	2770	1780	8290	1330	4040	723	2030
23	480	1360	1080	3640	720	3100	1370	6210	2240	7570	606	1570
24	414	e1270	1590	5530	555	2310	757	2900	1340	4530	598	1540
25	716	e2300	1930	7580	291	1200	698	2930	848	3080	621	1590
26	597	e1640	2330	9690	536	2190	1540	8120	2170	8720	587	1350
27	652	1840	1530	5870	355	1700	3830	19300	1850	6600	454	952
28	732	2180	1430	5520	2600	12300	2200	10800	2300	10700	351	670
29	926	3150	1400	5350	1930	7820	1720	9510	3840	13700	272	491
30	718	2340	1140	4440	3690	15500	6880	39000	1910	5680	286	528
31	---	---	1060	4050	---	---	3170	14500	1230	3830	---	---
TOTAL	---	77385	---	142140	---	103782	---	266867	---	237280	---	111721
YEAR		1074768										

e Estimated

08315480 SANTA FE RIVER ABOVE MCCLURE RESERVOIR NEAR SANTA FE, NM

LOCATION.--Lat 35°41'20", 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 estimated daily discharges, which are poor. Low flows in 1.5 ft Parshall Flume computed under station 08315479.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 105 ft^3/s, Aug. 8, 1999, gage height, 2.05 ft; minimum daily discharge, 0.43 ft^3/s, July 25, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27 ft^3/s, Aug. 19, gage height, 0.82; minimum daily discharge, 0.43 ft^3/s, July 25.

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	e1.2	1.7	1.6	e1.4	e1.4	1.3	2.2	6.6	1.6	.96	1.7	2.4
2	e1.4	1.7	1.4	e1.3	e1.3	1.1	2.2	6.4	2.8	.74	1.3	2.3
3	e1.5	1.7	1.3	e1.3	e1.5	2.0	2.3	6.5	3.1	.76	1.1	2.1
4	e1.7	1.6	1.4	e1.3	e1.3	1.8	2.2	6.8	1.9	.62	1.0	1.9
5	e1.9	1.6	e1.3	e1.3	e1.4	1.3	2.6	7.0	1.7	.58	.89	1.7
6	e2.0	1.6	e1.3	e1.2	e1.4	1.2	3.1	7.0	1.5	.64	.85	1.5
7	e2.2	1.6	e1.3	e1.3	e1.3	1.0	3.3	6.8	1.5	.84	1.3	1.5
8	e2.5	1.6	e1.2	e1.3	e1.4	1.5	3.5	6.7	1.5	.76	1.1	1.4
9	2.8	1.6	e1.2	e1.2	e1.5	1.8	3.3	6.3	1.5	.61	.89	1.4
10	2.5	1.5	e1.1	e1.3	e1.7	1.6	3.7	6.1	1.3	.65	.90	1.2
11	2.5	1.5	e1.0	e1.2	e1.8	2.2	4.4	6.1	1.2	.81	.76	1.2
12	2.5	1.5	e1.2	e1.3	e1.8	2.0	4.1	5.8	1.1	.79	.94	1.1
13	2.0	1.5	e1.2	e1.4	e1.9	1.8	4.4	5.5	1.0	1.1	1.1	1.1
14	2.0	1.5	e1.3	e1.3	e1.9	1.8	4.6	5.3	.97	.91	.77	1.1
15	1.9	1.4	e1.3	e1.3	2.0	1.7	4.8	5.0	.93	.75	.67	1.1
16	1.9	1.4	e1.2	e1.4	1.9	1.7	4.3	4.8	.85	.62	.60	1.1
17	2.2	1.5	e1.3	e1.3	1.8	1.8	4.5	4.5	.86	.60	2.1	1.2
18	2.1	1.5	e1.3	e1.3	1.7	1.8	4.9	4.4	.87	.64	12	1.3
19	2.2	1.5	e1.2	e1.4	1.8	2.0	5.2	4.3	1.9	.90	19	1.2
20	2.1	1.7	e1.3	e1.3	1.5	1.6	4.6	4.2	1.1	.65	8.5	1.2
21	2.1	1.5	e1.4	e1.4	1.2	1.5	4.8	4.0	.87	.59	6.2	1.3
22	2.0	1.5	e1.3	e1.3	1.1	1.6	4.7	3.3	.81	.54	5.1	1.9
23	2.0	1.4	e1.3	e1.3	1.3	1.7	4.7	2.5	.85	.48	4.5	1.4
24	1.9	1.9	e1.2	e1.3	1.1	1.8	5.0	2.4	.75	.45	4.1	1.2
25	1.9	2.0	e1.3	e1.4	1.3	1.9	5.4	2.4	.70	.43	3.8	1.2
26	1.8	1.9	e1.3	e1.3	3.9	2.1	5.8	2.4	.68	.71	3.4	1.1
27	1.8	1.7	e1.4	e1.5	1.7	2.2	6.7	2.2	.78	2.5	3.1	1.1
28	1.8	1.6	e1.3	e1.4	1.3	2.4	7.2	2.0	.84	2.4	2.9	1.0
29	1.8	1.5	e1.3	e1.3	1.4	2.4	7.2	1.9	.90	1.8	2.8	1.0
30	1.8	1.6	e1.2	e1.3	---	2.3	7.1	1.7	1.3	2.0	2.8	.99
31	1.8	---	1.3	e1.4	---	2.3	---	1.6	---	2.0	2.4	---
TOTAL	61.8	47.8	39.7	41.0	46.6	55.2	132.8	142.5	37.66	28.83	98.57	41.19
MEAN	1.99	1.59	1.28	1.32	1.61	1.78	4.43	4.60	1.26	.93	3.18	1.37
MAX	2.8	2.0	1.6	1.5	3.9	2.4	7.2	7.0	3.1	2.5	19	2.4
MIN	1.2	1.4	1.0	1.2	1.1	1.0	2.2	1.6	.68	.43	.60	.99
AC-FT	123	95	79	81	92	109	263	283	75	57	196	82

CAL YR 1999 TOTAL 2137.40 MEAN 5.86 MAX 67 MIN .90 AC-FT 4240
WTR YR 2000 TOTAL 773.65 MEAN 2.11 MAX 19 MIN .43 AC-FT 1530

e Estimated

08315500 MCCLURE RESERVOIR NEAR SANTA FE, NM

LOCATION.--Lat 35°41'18", long 105°50'06", in NE$^1/_4$SW$^1/_4$, 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. Water is for municipal use of City of Santa Fe.

COOPERATION.--Capacity table and supplementary gage readings, provided by Public Service Co. of New Mexico.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 3,280 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, 3,250 acre-ft; Oct. 1-7, gage height, 7,885.74 ft; minimum, 484 acre-ft, Sept. 19, gage height, 7834.29 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3250	2880	2440	2480	e2500	2190	2290	1870	1320	977	602	610
2	3250	2880	2440	2480	2500	2190	2290	1880	1320	979	605	596
3	3250	2890	2440	e2480	2500	2190	2290	1900	1330	980	608	581
4	3250	2890	2440	e2480	2510	2200	2300	1910	1330	981	609	568
5	3250	2870	2450	e2480	2510	2200	2300	1920	1330	982	611	562
6	3250	2840	2450	e2480	2510	2200	2310	1940	1340	984	613	565
7	3250	2790	2450	e2480	2510	2210	2310	1950	1340	987	615	568
8	3230	2760	2460	e2490	2510	2210	2320	1970	1340	988	617	565
9	3200	2720	2460	e2490	2510	2210	2320	1980	1340	990	619	557
10	3180	2710	2460	2490	2510	2210	2330	1990	1350	992	621	549
11	3140	2710	2460	2490	2510	2220	2340	2000	1350	993	615	542
12	3060	2720	2460	2490	2510	2220	2320	1990	1350	995	611	533
13	3010	2720	2470	2490	2510	2220	2270	1950	1350	979	608	526
14	2980	2720	e2470	2490	2510	2220	2220	1920	1350	947	608	518
15	2950	2720	2470	2490	2510	2230	2170	1830	1330	916	606	510
16	2910	2730	2470	2490	2510	2230	2120	1790	1300	e889	606	502
17	2870	2730	2470	2490	2510	2230	2070	1800	1280	e862	609	494
18	2850	2730	2480	2490	2510	2240	2020	1810	1250	e835	642	486
19	2850	2710	e2480	2490	2510	2240	1980	1810	1220	e808	693	484
20	2850	2670	2480	2490	2510	2240	1930	1750	1200	780	718	486
21	2860	2630	2480	2490	2510	2240	1880	1640	1170	758	727	488
22	2860	2620	2480	2490	2510	2250	1840	1610	1150	739	722	491
23	2860	2620	2480	2490	2510	2250	1790	1620	1120	720	714	493
24	2870	2610	2480	2490	2510	2250	1780	1620	1090	701	705	495
25	2870	2570	2480	2500	2470	2260	1790	1630	1070	683	695	496
26	2870	2530	2480	2500	2410	2260	1800	1580	1050	666	684	498
27	2870	2490	2480	2500	2340	2260	1810	1490	1030	653	671	499
28	2870	2450	2480	e2500	2280	2270	1830	1410	1000	641	659	501
29	2880	2430	2480	e2500	2210	2270	1840	1330	982	627	648	503
30	2880	2440	2480	e2500	---	2280	1860	1310	975	615	636	504
31	2880	---	2480	2500	---	2280	---	1310	---	603	623	---
MAX	3250	2890	2480	2500	2510	2280	2340	2000	1350	995	727	610
MIN	2850	2430	2440	2480	2210	2190	1780	1310	975	603	602	484
(+)	6983.97	7874.75	7875.42	7875.73	7871.44	7872.51	7865.96	7856.39	7849.02	7838.58	7839.24	7835.06
(++)	-370	-440	+40	+20	-290	+70	-420	-550	-335	-372	+20	-119

CAL YR 1999 MAX 3260 MIN 2160 (++) +320
WTR YR 2000 MAX 3250 MIN 484 (++) -2746

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 estimated daily discharges, which are poor. Flow regulated by McClure Reservoir (station 08315500), completed in 1926, raised in 1935 1947, and again in 1989. Several observations of water temperature were made during year.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	.45	.16	1.6	1.0	13	.11	.53	.09	.06	3.7	8.5
2	2.5	.47	.13	1.6	.98	.25	.08	.48	.13	.06	.00	8.4
3	2.4	.47	.13	1.6	.98	.24	.08	.47	.07	.08	.00	8.3
4	2.3	.46	.13	1.6	1.1	.22	.07	.48	.06	.10	.00	8.3
5	2.3	9.1	.14	1.6	1.1	.22	.07	.48	.04	.21	.00	4.9
6	2.4	23	.18	1.5	1.1	.22	.08	.52	.08	.21	.00	.01
7	5.8	22	.15	e1.4	1.1	.24	.08	.49	.08	.33	.00	.00
8	13	19	.14	e1.4	1.1	.26	.10	.54	.05	.16	.00	3.1
9	14	16	.13	e1.4	1.1	.21	.10	.54	.06	.18	.00	5.0
10	14	7.2	.17	1.4	1.1	.20	.10	.53	.04	.14	.00	5.0
11	23	.18	.15	1.4	1.2	.18	.18	.52	.02	.15	3.2	5.0
12	39	.14	.12	1.5	1.2	.15	14	9.2	.02	.19	3.0	4.9
13	25	.13	.15	1.4	1.2	.15	29	24	.03	9.3	2.1	4.8
14	16	.13	.24	1.3	1.2	.14	29	23	.04	15	1.1	4.9
15	21	.12	.26	1.4	1.2	.14	29	41	10	15	.88	4.7
16	25	.12	.70	1.4	1.2	.17	29	17	16	15	.86	4.6
17	25	.16	.39	1.3	1.2	.14	29	.37	16	15	.89	4.7
18	12	.12	.95	1.3	1.4	.14	29	.26	16	15	1.2	4.7
19	.37	8.1	4.9	1.3	1.4	.13	29	.20	16	15	1.2	2.4
20	.34	20	2.4	1.3	1.4	.13	28	32	15	14	1.0	.02
21	.32	19	1.3	1.2	1.4	.20	28	48	15	12	4.1	.01
22	.32	7.2	1.2	1.2	1.4	.17	28	16	15	9.8	9.1	.02
23	.32	.15	1.4	1.2	1.4	.12	28	.35	15	9.4	9.1	.02
24	.32	7.4	1.4	1.2	1.4	.12	11	.24	14	8.8	9.1	.02
25	.34	22	1.4	1.2	18	.11	.74	.19	14	8.4	9.0	.03
26	.34	21	1.5	1.1	32	.11	.64	22	14	8.0	9.0	.03
27	.34	21	1.5	e1.1	32	.10	.56	42	14	7.8	9.0	.03
28	.35	21	1.5	e1.1	32	.13	.55	41	13	7.4	8.9	.04
29	.42	8.0	1.6	1.0	32	.11	.52	40	13	7.3	8.7	.03
30	.43	.19	1.6	.94	---	.11	.53	13	6.6	7.3	8.5	.03
31	.43	---	1.6	.98	---	.12	---	.15	---	7.2	8.5	---
TOTAL	252.04	254.29	27.72	40.92	174.86	17.93	344.59	375.54	223.41	208.57	112.13	92.49
MEAN	8.13	8.48	.89	1.32	6.03	.58	11.5	12.1	7.45	6.73	3.62	3.08
MAX	39	23	4.9	1.6	32	13	29	48	16	15	9.1	8.5
MIN	.32	.12	.12	.94	.98	.10	.07	.15	.02	.06	.00	.00
AC-FT	500	504	55	81	347	36	683	745	443	414	222	183

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2000, BY WATER YEAR (WY)

MEAN	4.79	3.02	2.50	2.33	2.69	4.74	12.6	23.2	17.5	9.46	8.46	6.83
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	.20	.22	.20	.25	.34	.23	.53	.70	1.06	.81	.90
(WY)	1957	1997	1997	1997	1997	1972	1981	1955	1955	1981	1951	1959

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1913 - 2000	
ANNUAL TOTAL	2214.15		2124.49			
ANNUAL MEAN	6.07		5.80		8.17	
HIGHEST ANNUAL MEAN					26.2	1919
LOWEST ANNUAL MEAN					1.88	1951
HIGHEST DAILY MEAN	39	Oct 12	48	May 21	378	Sep 23 1929
LOWEST DAILY MEAN	.12	Nov 15	.00	Aug 2	[a].00	Aug 2 2000
ANNUAL SEVEN-DAY MINIMUM	.13	Nov 12	.00	Aug 2	.00	Aug 2 2000
INSTANTANEOUS PEAK FLOW					[b]1500	Aug 14 1921
INSTANTANEOUS PEAK STAGE					[c]5.17	Aug 14 1921
INSTANTANEOUS LOW FLOW					.05	Apr 7 1981
ANNUAL RUNOFF (AC-FT)	4390		4210		5920	
10 PERCENT EXCEEDS	16		20		18	
50 PERCENT EXCEEDS	2.5		1.2		4.2	
90 PERCENT EXCEEDS	.41		.08		.99	

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$^1/_4$NE$^1/_4$ 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, 577 acre-ft, Apr. 24; maximum gage height, 163.20 ft; minimum, 125 acre-ft, June 15, gage height, 138.60 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	214	473	388	e304	496	275	420	407	276	300	325
2	114	204	475	387	e301	492	269	399	380	267	294	332
3	107	195	471	e385	e297	487	266	373	361	258	285	339
4	101	187	466	e383	e294	482	259	349	343	247	274	350
5	95	188	462	382	e290	477	247	319	325	232	262	355
6	84	223	457	e380	e287	473	234	287	307	214	249	345
7	79	258	439	378	e284	469	218	261	281	195	234	335
8	79	286	440	e376	e284	463	198	238	258	180	221	327
9	79	310	441	e375	283	457	181	212	236	170	211	328
10	88	320	438	374	279	451	163	187	224	161	197	335
11	123	311	435	373	274	445	149	161	202	152	187	e336
12	197	302	430	371	e267	439	160	139	182	137	179	e340
13	234	293	428	370	260	433	205	159	161	134	177	e342
14	249	283	430	369	253	426	248	183	137	149	179	e348
15	271	274	425	368	247	420	287	254	125	171	171	e350
16	303	266	417	363	239	412	328	280	131	189	157	348
17	339	258	414	356	232	402	369	254	144	206	145	347
18	357	250	410	350	225	393	408	225	158	224	149	349
19	350	252	410	348	e219	384	441	196	169	241	155	355
20	341	281	407	348	214	375	471	236	176	258	159	346
21	332	314	408	344	210	367	500	325	180	268	166	337
22	323	e330	406	340	206	359	535	340	185	269	186	337
23	313	e328	402	e336	e206	352	571	313	191	267	201	331
24	304	e311	400	e332	e240	345	577	283	202	267	208	326
25	294	e356	399	328	e280	339	559	258	219	265	217	325
26	278	394	398	325	e315	333	537	270	230	263	232	322
27	262	432	396	321	e360	325	505	336	235	263	248	314
28	251	468	395	e317	411	315	476	396	249	271	267	306
29	242	483	393	e314	471	302	456	453	271	284	285	298
30	233	478	391	e310	---	293	438	461	284	291	305	289
31	224	---	390	e307	---	283	---	435	---	299	317	---
MAX	357	483	475	388	471	496	577	461	407	299	317	355
MIN	79	187	390	307	206	283	149	139	125	134	145	289
(+)	146.40	159.45	155.64	145.05	159.13	150.23	157.71	157.57	150.27	151.03	151.92	150.52
(++)	+80	+254	-88	-80	+161	-188	+155	-3	-151	+15	+17	-27

CAL YR MAX 636 MIN 79 (++) +9
WTR YR MAX 577 MIN 79 (++) -107

e Estimated

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

08317300 COCHITI LAKE NEAR COCHITI PUEBLO, NM

LOCATION.--Lat 35°37'01", long 106°18'58", in NW$^1/_4$SW$^1/_4$ 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, 51,940 acre-ft, Feb. 6, elevation, 5,342.25 ft; minimum, 47,220 acre-ft, Oct. 25, elevation, 5,338.29 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 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47830	48230	48830	50940	51580	51460	51530	50930	49740	50110	49490	48360
2	48090	48280	48710	51090	51550	51480	51420	50950	49840	49720	49130	48310
3	48280	48270	48600	51190	51540	51510	51260	50810	50100	49410	48670	48330
4	48410	48210	48480	51190	51620	51510	51120	50540	50180	49230	48440	48350
5	48360	48090	48240	51170	51770	51500	51050	50260	50080	49040	48400	48440
6	48260	47870	48260	51360	51940	51500	51230	50230	49990	48970	48420	48510
7	48140	47580	48410	51370	51890	51480	51320	50260	49850	48930	48600	48460
8	48060	47450	48470	51440	51750	51460	51240	50170	49630	48990	48820	48490
9	47990	47410	48560	51480	51590	51410	51170	50130	49560	49140	48860	48840
10	47950	47490	48570	51510	51500	51330	51000	50280	49540	49310	48900	48920
11	47900	47590	48550	51590	51560	51260	50990	50300	49470	49340	48880	48930
12	47850	47680	48520	51700	51680	51050	51090	50210	49380	49290	48930	48790
13	47800	48030	48620	51770	51790	50780	50940	50140	49340	49350	49130	48700
14	47680	48370	48760	51770	51670	50460	50980	50140	49320	49760	49220	48590
15	47540	48570	48850	51770	51480	50220	51040	50140	49380	49590	49090	48460
16	47600	48540	48960	51800	51380	50100	50940	50190	49390	49380	48850	48420
17	47700	48400	49170	51850	51350	50420	50690	50260	49340	49370	48640	48390
18	47770	48790	49230	51870	51370	50790	50690	50280	49290	49450	49120	48350
19	47650	49140	49350	51910	51360	51180	51100	50350	49280	48820	50060	48270
20	47510	49020	49550	51920	51400	51420	51230	50380	49340	48150	49850	48150
21	47510	48820	49690	51850	51440	51530	51080	50380	49480	47580	49350	48230
22	47540	48610	49860	51810	51410	51550	50960	50350	49510	47970	48900	48320
23	47520	48400	49940	51770	51380	51400	50830	50120	49560	48310	48830	48280
24	47260	48470	50040	51700	51370	51180	50930	49920	49540	48310	48720	48290
25	47220	48390	50190	51540	51370	51140	51080	49890	49430	48350	48770	48400
26	47350	48370	50350	51460	51360	51100	50990	50050	49300	48400	48860	48560
27	47380	48420	50480	51580	51320	51030	50690	50040	49290	48710	48990	48640
28	47460	48480	50540	51710	51490	51040	50460	50010	49840	48930	48930	48600
29	47650	48920	50630	51790	51490	51240	50580	49950	50020	48910	49090	48480
30	47950	48880	50700	51730	---	51370	50760	49880	50270	49500	48840	48350
31	48190	---	50810	51620	---	51490	---	49800	---	49670	48550	---
MAX	48410	49140	50810	51920	51940	51550	51530	50950	50270	50110	50060	48930
MIN	47220	47410	48240	50940	51320	50100	50460	49800	49280	47580	48400	48150
(+)	5339.17	5339.77	5341.37	5342.00	5341.90	5341.90	5341.33	5340.55	5340.93	5340.44	5339.49	5339.31
(++)	+470	+690	+1930	+810	-130	0	-730	-960	+470	-600	-1120	-200

CAL YR 1999 MAX 54580 MIN 45060 (++) -8990
WTR YR 2000 MAX 51940 MIN 47220 (++) +630

(+) 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$^1/_4$NE$^1/_4$ 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	930	789	982	712	813	802	885	1140	1420	1250	1160	922
2	928	789	1060	707	809	750	868	1150	1510	1240	1120	911
3	927	848	1040	709	815	747	813	1160	1540	1270	1160	911
4	928	903	1020	726	809	746	802	1200	1540	1270	1170	913
5	914	933	1020	695	817	751	816	1230	1540	1300	1170	904
6	917	943	874	634	821	751	820	1230	1540	1280	1170	e940
7	917	952	758	671	919	731	915	1230	1520	1240	1180	995
8	914	862	757	708	987	716	979	1240	1500	1230	1150	1030
9	911	768	754	711	997	715	1010	1280	1510	1230	1150	1050
10	910	700	765	714	936	710	1010	1310	1530	1240	1160	1030
11	902	673	769	711	850	705	1030	1290	1530	1250	1140	1030
12	863	671	757	712	845	713	1130	1270	1520	1270	1110	1010
13	844	670	702	726	855	707	1130	1340	1510	1270	1050	987
14	849	669	656	751	935	737	1100	1390	1500	1310	1010	983
15	846	738	645	769	950	838	1070	1330	1490	1300	996	983
16	852	858	595	771	895	944	1110	1280	1490	1300	986	984
17	907	901	629	774	891	1040	1160	1270	1480	1210	1030	985
18	974	680	677	803	882	1090	1160	1280	1490	1130	1000	992
19	967	715	682	821	879	1100	1150	1240	1490	1120	1000	993
20	933	975	675	838	880	1030	1180	1220	1490	1100	1020	927
21	891	983	673	922	885	942	1120	1230	1450	1090	977	788
22	847	975	670	954	873	1060	1050	1230	1420	1090	960	741
23	825	969	669	945	867	1150	1040	1220	1420	1090	991	748
24	823	800	675	948	872	996	996	1260	1400	1090	1030	707
25	781	868	675	958	864	809	1000	1300	1400	1120	994	657
26	752	842	684	967	861	813	1080	1320	1390	1170	969	583
27	714	804	690	964	870	818	1140	1330	1400	1440	966	547
28	695	804	702	954	786	835	1160	1340	1370	1230	961	553
29	643	615	710	948	883	843	1140	1340	1350	1220	947	554
30	592	915	704	950	---	868	1120	1330	1310	1220	934	553
31	645	---	703	897	---	889	---	1350	---	1200	928	---
TOTAL	26341	24612	23372	25070	25346	26346	30984	39330	44050	37770	32589	25911
MEAN	850	820	754	809	874	850	1033	1269	1468	1218	1051	864
MAX	974	983	1060	967	997	1150	1180	1390	1540	1440	1180	1050
MIN	592	615	595	634	786	705	802	1140	1310	1090	928	547
AC-FT	52250	48820	46360	49730	50270	52260	61460	78010	87370	74920	64640	51390
(+)	8580	0	0	0	0	6460	7510	8420	8110	7480	7850	7500
(++)	4110	0	0	0	0	3930	4150	4610	4470	4480	4290	4260

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2000, BY WATER YEAR (WY)

MEAN	613	904	919	848	989	1242	2002	3209	3037	1685	925	733
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1971 - 2000	
ANNUAL TOTAL	503837		361721			
ANNUAL MEAN	1380		988		1426	
HIGHEST ANNUAL MEAN					2355	1986
LOWEST ANNUAL MEAN					452	1977
HIGHEST DAILY MEAN	4950	May 27	1540	Jun 3-6	8290	May 7 1985
LOWEST DAILY MEAN	560	Mar 13	547	Sep 27	.51	Aug 4 1977
ANNUAL SEVEN-DAY MINIMUM	591	Mar 18	593	Sep 24	39	Sep 16 1977
INSTANTANEOUS PEAK FLOW					[a]10300	Jul 26 1971
INSTANTANEOUS PEAK STAGE					[b]7.90	Jul 26 1971
INSTANTANEOUS LOW FLOW					[c].51	Aug 5 1977
ANNUAL RUNOFF (AC-FT)	999400		717500		1033000	
10 PERCENT EXCEEDS	2980		1330		3610	
50 PERCENT EXCEEDS	927		950		890	
90 PERCENT EXCEEDS	662		703		389	

e Estimated
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.
(+) 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 NE$^1/_4$NE$^1/_4$ sec.8, T.14 N., R.7 E., Santa Fe County, Hydrologic Unit 13020201, in Mesita de Juana Lopez Grant, on right bank 0.4 mi downstream from Galisteo Dam, 5.3 mi northwest of Cerrillos, and at mile 11.4.

DRAINAGE AREA.--597 mi^2.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	e.34	e.44	e.19	.47	e1.5	.00	12	.00	.00	.00
2	.00	.00	e.27	e.46	e.20	.49	e6.5	.00	35	.00	.00	.00
3	.00	.00	e.18	e.54	e.22	e.44	e2.4	.00	145	.00	.00	.00
4	.00	.00	e.16	e.48	e.18	e1.1	.00	.00	.00	.00	.00	.00
5	.00	.00	e.15	e.38	e.19	e.91	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	e.34	e.22	e.65	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	e.36	e.20	2.6	.00	.00	.00	.00	1.4	.00
8	.00	.00	.00	e.40	e.21	.94	.00	.00	.00	.00	16	.00
9	.00	.00	.00	e.41	e.17	.25	.00	.00	.00	.00	2.5	.00
10	.00	.00	.13	e.36	e.16	.08	.00	.00	.00	.00	.00	.00
11	.00	.00	e.16	e.34	e.18	.01	.00	.00	.00	.00	.00	.00
12	.00	.00	e.13	e.28	e.19	.08	2.5	.00	.00	.00	.02	.00
13	.00	.00	e.15	e.21	e.18	.03	e.15	.00	.00	21	.00	.00
14	.00	.00	e.21	e.23	e.19	.03	e.00	.00	.00	.00	.00	.00
15	.00	.00	e.24	e.26	e.16	.04	.00	.00	.00	.00	.00	.00
16	.00	.02	e.29	e.24	e.12	.09	.00	.00	.00	.00	.00	.00
17	.00	.05	e.31	e.21	e.12	.26	.00	.00	.00	.00	.00	.00
18	.00	.04	e.27	e.19	e.15	.00	.00	.00	.00	.00	262	.00
19	.00	.00	e.24	e.22	e.14	.01	.00	.00	.00	.00	310	.00
20	.00	7.3	e.21	e.23	e.15	1.5	.00	.00	.00	.00	.00	.00
21	.00	56	e.22	e.19	e.17	.03	.00	.00	.00	.00	.00	.00
22	.00	.18	e.19	e.20	e.18	e4.7	.00	.00	.00	.00	.00	.00
23	.00	.12	e.10	e.21	e.18	e5.0	.00	.00	.00	.00	.00	.00
24	.00	8.0	e.12	e.20	e.17	e3.7	.00	.00	.00	.00	.00	.00
25	.00	.38	e.12	e.18	e.14	e2.9	.00	.00	.00	.00	.00	.00
26	.00	.00	e.13	e.23	e.13	e.91	.00	.00	.00	.00	.00	.00
27	.00	.04	e.12	e.24	e.15	.00	.00	.00	.00	.00	.00	.00
28	.00	.28	e.10	e.22	1.6	.33	.21	.00	266	.00	20	.00
29	.00	.40	e.11	e.23	.32	e1.9	6.2	.00	237	.00	16	.00
30	.00	.49	e.10	e.21	---	.19	.00	.00	.03	.00	.00	.00
31	.00	---	e.09	e.23	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	73.30	4.84	8.92	6.56	29.64	19.46	0.00	695.03	21.00	627.92	0.00
MEAN	.000	2.44	.16	.29	.23	.96	.65	.000	23.2	.68	20.3	.000
MAX	.00	56	.34	.54	1.6	5.0	6.5	.00	266	21	310	.00
MIN	.00	.00	.00	.18	.12	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	145	9.6	18	13	59	39	.00	1380	42	1250	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2000, BY WATER YEAR (WY)

MEAN	4.71	1.68	1.43	1.37	1.94	2.84	2.71	3.02	6.99	20.2	18.2	9.51
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1970 - 2000	
ANNUAL TOTAL	3769.16		1486.67			
ANNUAL MEAN	10.3		4.06		6.15	
HIGHEST ANNUAL MEAN					12.8	1972
LOWEST ANNUAL MEAN					1.28	1980
HIGHEST DAILY MEAN	1190	Aug 9	310	Aug 19	1190	Aug 9 1999
LOWEST DAILY MEAN	.00	Mar 17	.00	Oct 1	.00	May 15 1970
ANNUAL SEVEN-DAY MINIMUM	.00	Apr 6	.00	Oct 1	.00	May 30 1970
INSTANTANEOUS PEAK FLOW					3460	Aug 24 1997
INSTANTANEOUS PEAK STAGE					5.57	Aug 24 1997
INSTANTANEOUS LOW FLOW					.00	Oct 1 1997
ANNUAL RUNOFF (AC-FT)	7480		2950		4450	
10 PERCENT EXCEEDS	9.2		.49		7.4	
50 PERCENT EXCEEDS	.09		.00		.35	
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 SW$^1/_4$NW$^1/_4$ 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 mi^2, approximately, including 2,940 mi^2 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 good. Flow completely regulated since November 1973 by Cochiti Dam (station 08317300) 17 mi upstream. Prior to November 1973 some regulation of flow by El Vado Reservoir (station 08285000) and Abiquiu Reservoir (station 08286900). Since May 1971 flow affected by release of transmountain water from Heron Reservoir (station 08284510). Diversions for irrigation of about 705,000 acres upstream from station, some of which is irrigated downstream by Cochiti Eastside Main Canal and San Felipe eastside acequia, which bypass station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Other major floods occurred in 1874, 1884, and 1904.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1020	860	944	639	708	777	978	1110	1370	1230	1280	1010
2	1010	848	1050	635	704	745	955	1090	1470	1220	1210	1020
3	1020	874	1050	640	698	739	898	1100	1480	1240	1230	1030
4	1020	945	1030	658	697	744	872	1120	1420	1250	1280	1030
5	1020	987	1020	636	698	752	866	1160	1430	1250	1270	1010
6	1030	1010	945	565	698	751	860	1160	1430	1240	1270	1020
7	1020	1010	772	582	749	748	901	1160	1430	1230	1270	1070
8	1020	960	764	618	834	754	993	1180	1440	1240	1270	1100
9	1020	857	758	619	841	746	1010	1210	1470	1260	1210	1120
10	1010	798	744	612	822	749	1030	1250	1480	1250	1220	1100
11	997	759	743	604	736	758	1050	1240	1470	1250	1180	1090
12	970	755	738	605	737	757	1140	1240	1470	1300	1200	1090
13	952	753	713	615	749	758	1150	1270	1460	1310	1160	1070
14	956	751	652	638	788	770	1130	1340	1440	1340	1120	1050
15	954	782	642	659	851	845	1090	1320	1410	1330	1100	1050
16	956	896	606	650	805	956	1120	1240	1420	1330	1100	1060
17	996	962	579	652	785	1060	1160	1250	1420	1290	1110	1060
18	1070	747	639	669	780	1160	1150	1250	1440	1240	1220	1060
19	1070	792	638	689	782	1170	1150	1220	1450	1210	1520	1060
20	1060	1010	632	700	788	1100	1160	1170	1450	1200	1170	1030
21	1020	1020	625	754	788	1010	1130	1180	1420	1190	1150	927
22	1010	1030	624	809	788	1090	1040	1180	1400	1180	1110	860
23	991	1030	624	815	788	1200	1040	1180	1400	1200	1090	854
24	989	889	626	816	788	1120	1020	1210	1390	1190	1140	840
25	968	920	627	820	790	884	989	1280	1390	1200	1120	782
26	920	900	618	824	796	871	1050	1300	1390	1280	1100	735
27	905	848	622	823	798	865	1100	1320	1420	1290	1100	679
28	857	843	646	820	719	891	1120	1320	1430	1320	1090	674
29	829	655	647	820	797	904	1070	1340	1700	1320	1030	654
30	754	907	645	821	---	946	1090	1330	1310	1310	1010	651
31	761	---	636	802	---	974	---	1330	---	1300	1010	---
TOTAL	30175	26398	22599	21609	22302	27594	31312	38050	43100	38990	36340	28786
MEAN	973	880	729	697	769	890	1044	1227	1437	1258	1172	960
MAX	1070	1030	1050	824	851	1200	1160	1340	1700	1340	1520	1120
MIN	754	655	579	565	697	739	860	1090	1310	1180	1010	651
AC-FT	59850	52360	44830	42860	44240	54730	62110	75470	85490	77340	72080	57100
(+)	3500	0	0	0	0	3470	3570	3800	3380	3340	3240	3470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2000, BY WATER YEAR (WY)

MEAN	743	940	985	908	1051	1358	2170	3371	3278	1902	1096	878
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1974 - 2000	
ANNUAL TOTAL	546235		367255			
ANNUAL MEAN	1497		1003		[a]1558	
HIGHEST ANNUAL MEAN					2493	1987
LOWEST ANNUAL MEAN					547	1977
HIGHEST DAILY MEAN	5510	May 30	1700	Jun 29	8100	May 7 1985
LOWEST DAILY MEAN	579	Dec 17	565	Jan 6	67	Aug 28 1978
ANNUAL SEVEN-DAY MINIMUM	620	Dec 16	601	Jan 6	135	Aug 23 1978
INSTANTANEOUS PEAK FLOW			2050	Jun 29	[b]273000	May 26 1937
INSTANTANEOUS PEAK STAGE			5.38	Jun 29	[c]11.13	Jun 26 1937
INSTANTANEOUS LOW FLOW			252	Nov 29	32	Jul 7 1934
ANNUAL RUNOFF (AC-FT)	1083000		728500		1128000	
10 PERCENT EXCEEDS	3200		1330		3780	
50 PERCENT EXCEEDS	1010		1020		1010	
90 PERCENT EXCEEDS	750		657		490	

a Average discharge for 48 years (water years 1926-73), 1,374 ft^3/s, 995,500 acre-ft/yr, prior to closure of Cochiti.
b From rating curve extended above 15,000 ft^3/s.
c Site and datum then in use.
(+) Monthly diversions, in acre-ft, 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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
NOV											
16...	1315	869	637	118	11.7	7.7	337	9.0	8.0	--	--
JAN											
19...	0930	688	635	112	12.7	8.6	342	--	2.5	--	--
FEB											
09...	1036	843	634	116	11.8	8.7	294	18.0	6.5	--	--
MAR											
15...	1333	831	632	--	--	8.8	337	20.0	11.2	--	--
APR											
14...	0905	1180	632	100	9.7	8.1	374	16.5	8.5	140	20
MAY											
16...	1300	1230	631	105	8.6	8.3	390	27.0	15.5	140	26
JUN											
27...	1345	1430	632	122	8.6	8.4	352	28.0	23.0	120	20
AUG											
03...	0945	1210	638	106	8.0	7.8	325	--	20.0	120	17
11...	1130	1150	--	--	8.5	8.2	325	--	23.5	--	--

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
NOV											
16...	--	--	--	--	--	--	--	--	--	--	--
JAN											
19...	--	--	--	--	--	--	--	--	--	--	--
FEB											
09...	--	--	--	--	--	--	--	--	--	--	--
MAR											
15...	--	--	--	--	--	--	--	--	--	--	--
APR											
14...	41.9	7.89	3.0	.9	23.0	119	117	143	0	6.3	.4
MAY											
16...	41.4	8.07	3.0	.9	24.8	116	111	135	0	6.9	.4
JUN											
27...	38.0	7.22	2.5	.7	19.1	106	105	128	0	5.0	.3
AUG											
03...	35.6	6.31	2.5	.6	14.9	101	98	120	0	4.3	.3
11...	--	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	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)
NOV											
16...	--	--	--	--	--	--	--	--	--	--	--
JAN											
19...	--	--	--	--	--	--	--	--	--	--	--
FEB											
09...	--	--	--	--	--	--	--	--	--	--	--
MAR											
15...	--	--	--	--	--	--	--	--	--	--	--
APR											
14...	19.8	61.0	<.20	<.20	.03	480	<.010	2	<.020	<.010	<.020
MAY											
16...	17.2	69.2	<.20	.36	.04	--	<.010	--	.020	<.010	<.020
JUN											
27...	15.8	63.7	<.20	.40	.08	--	.040	--	<.020	<.010	<.020
AUG											
03...	16.5	54.4	<.20	.22	.03	--	<.010	--	.030	<.010	.040
11...	--	--	--	--	--	--	--	--	--	--	--

08319000 RIO GRANDE AT SAN FELIPE, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)
NOV										
16...	--	--	--	--	--	--	--	--	--	--
JAN										
19...	--	--	--	--	--	--	--	--	--	--
FEB										
09...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	--	--	--	--	--	--	--	--	--	--
APR										
14...	.010	.030	890	234	1	<1	E1.7	66	<1	40
MAY										
16...	<.010	.060	--	238	<1	<1	E1.9	70	<1	43
JUN										
27...	<.010	.070	--	215	2	<1	2.0	67	<1	32
AUG										
03...	.030	.080	--	194	2	<1	E1.8	81	<1	32
11...	--	--	--	--	--	--	--	--	--	--

DATE	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)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
NOV										
16...	--	--	--	--	--	--	--	--	--	--
JAN										
19...	--	--	--	--	--	--	--	--	--	--
FEB										
09...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	--	--	--	--	--	--	--	--	--	--
APR										
14...	<1.0	E.6	<1	2	<10	<1	9	<.3	4	<1
MAY										
16...	<1.0	<.8	<1	1	<10	<1	6	<.3	4	1
JUN										
27...	<1.0	<.8	<1	<1	<10	<1	2	<.3	3	1
AUG										
03...	<1.0	E.5	<1	1	<10	<1	3	<.3	3	1
11...	--	--	--	--	--	--	--	--	--	--

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)
NOV										
16...	--	--	--	--	--	--	--	--	--	--
JAN										
19...	--	--	--	--	--	--	--	--	--	--
FEB										
09...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	--	--	--	--	--	--	--	--	--	--
APR										
14...	<2.4	<3	<1	<1	<1	<.1	12	3.1	110	21000
MAY										
16...	<2.4	<3	<1	<1	--	--	--	--	--	--
JUN										
27...	<2.4	<3	<1	1	--	--	--	--	--	--
AUG										
03...	<2.4	<3	<1	1	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--

08319000 RIO GRANDE AT SAN FELIPE, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L) (09511)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV										
16...	--	--	--	--	--	--	--	--	18	--
JAN										
19...	--	--	--	--	--	--	--	--	94	41
FEB										
09...	--	--	--	--	--	--	--	--	73	73
MAR										
15...	--	--	--	--	--	--	--	--	63	60
APR										
14...	7.0	780	<.01	160	--	--	--	3	81	33
MAY										
16...	--	--	--	--	.04	.02	.07	2	94	27
JUN										
27...	--	--	--	--	--	--	--	1	73	55
AUG										
03...	--	--	--	--	--	--	--	2	111	--
11...	--	--	--	--	--	--	--	--	79	48

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 estimated daily discharges, 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	25	25	27	31	34	e100	132	22	28	18	17
2	26	25	25	26	27	35	e93	126	22	21	17	14
3	27	25	23	23	30	e39	83	123	21	19	16	9.7
4	26	25	26	23	30	e38	110	115	22	19	19	11
5	25	25	20	36	30	e36	e120	113	20	17	16	14
6	24	25	24	24	31	e33	e127	108	19	16	10	14
7	24	25	25	24	31	e32	130	96	19	15	12	15
8	25	26	25	28	31	25	130	93	18	17	20	15
9	25	25	24	27	33	23	122	87	19	18	34	16
10	26	24	27	27	34	28	128	76	20	19	18	12
11	26	25	28	27	32	26	136	71	19	20	16	9.3
12	25	25	23	27	30	30	133	66	18	20	14	12
13	25	25	22	27	31	33	137	59	18	21	10	14
14	25	23	24	27	29	37	144	55	17	22	11	14
15	23	21	21	27	33	e38	149	49	16	20	16	14
16	22	21	30	28	36	e40	129	45	15	16	15	12
17	32	21	27	28	36	e41	124	43	15	17	17	8.2
18	31	23	26	29	33	e43	134	40	15	22	20	11
19	31	22	26	30	30	e44	154	45	16	20	39	15
20	31	23	23	31	31	e46	135	48	15	20	23	15
21	30	23	26	33	33	e48	135	49	15	20	20	16
22	29	23	23	32	33	49	133	37	15	18	21	19
23	28	21	22	30	32	46	123	33	15	12	17	16
24	27	22	24	28	33	50	130	30	15	11	17	12
25	27	19	24	32	32	52	141	31	14	17	17	12
26	27	24	25	36	24	73	157	35	14	18	15	14
27	27	27	25	38	32	105	171	32	17	20	12	14
28	26	26	25	34	37	146	173	28	18	19	19	14
29	25	26	26	26	37	110	156	26	18	17	18	14
30	25	25	24	26	---	111	136	25	21	14	20	13
31	25	---	24	31	---	107	---	23	---	14	18	---
TOTAL	821	715	762	892	922	1598	3973	1939	528	567	555	406.2
MEAN	26.5	23.8	24.6	28.8	31.8	51.5	132	62.5	17.6	18.3	17.9	13.5
MAX	32	27	30	38	37	146	173	132	22	28	39	19
MIN	22	19	20	23	24	23	83	23	14	11	10	8.2
AC-FT	1630	1420	1510	1770	1830	3170	7880	3850	1050	1120	1100	806

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2000, BY WATER YEAR (WY)

MEAN	35.8	38.1	29.4	28.9	35.9	90.4	264	237	67.6	32.9	46.9	34.3
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1954 - 2000	
ANNUAL TOTAL	22402		13678.2			
ANNUAL MEAN	61.4		37.4		78.5	
HIGHEST ANNUAL MEAN					189	1973
LOWEST ANNUAL MEAN					22.9	1996
HIGHEST DAILY MEAN	416	May 1	173	Apr 28	3160	Apr 21 1958
LOWEST DAILY MEAN	19	Nov 25	8.2	Sep 17	2.1	Jul 25 1981
ANNUAL SEVEN-DAY MINIMUM	22	Nov 19	12	Sep 11	6.0	Jul 23 1981
INSTANTANEOUS PEAK FLOW			294	Aug 9	[a]5900	Apr 21 1958
INSTANTANEOUS PEAK STAGE			4.92	Aug 9	[b]10.10	Jul 15 1985
INSTANTANEOUS LOW FLOW			7.3	Sep 17	1.2	Jul 25 1981
ANNUAL RUNOFF (AC-FT)	44430		27130		56840	
10 PERCENT EXCEEDS	136		107		177	
50 PERCENT EXCEEDS	36		25		34	
90 PERCENT EXCEEDS	24		15		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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
APR												
14...	1210	148	620	101	9.1	8.2	237	22.0	10.5	78	26.9	2.71
AUG												
25...	0830	17	629	103	8.1	8.4	712	23.0	17.5	140	46.3	5.19

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
APR												
14...	3.0	.7	14.8	92	87	106	0	16.5	.4	20.7	6.4	<.20
AUG												
25...	10.2	3	81.1	193	186	212	7	106	1.2	46.3	8.5	<.20

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	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)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)
APR											
14...	.46	.06	<.010	<.020	<.010	<.020	.020	.080	144	19	<1
AUG											
25...	.34	.06	<.010	<.020	<.010	<.020	.010	.040	417	2	<1

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)	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)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
APR											
14...	13.3	61	<1	125	<1.0	<.8	<1	1	40	<1	8
AUG											
25...	95.3	20	<1	874	<1.0	<.8	<1	<1	10	<1	13

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L) (09511)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
APR											
14...	1	<1	<2.4	<1	<1	--	--	--	<1	--	--
AUG											
25...	6	<1	<2.4	<1	6	2.89	.58	.03	1	97	79

08328500 JEMEZ CANYON RESERVOIR NEAR BERNALILLO, NM

LOCATION.--Lat 35°23'40", long 106°32'50", in SW$^1/_4$SW$^1/_4$ 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 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, 22,400 acre-ft, May 1-2, elevation, 5,194.38 ft; minimum contents, 10,700 acre-ft, Sept. 30, elevation, 5,182.53 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 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18760	18210	18020	18420	19180	19770	21800	22400	20280	19150	17930	17010
2	18720	18160	18020	18440	19220	19790	21930	22400	20220	19070	17900	16970
3	18690	18180	18030	18420	19260	19800	21990	22280	20190	19050	17860	16930
4	18670	18180	18050	18410	19250	19830	22070	22110	20140	19020	17850	16900
5	18650	18180	18050	18400	19280	19840	22060	21970	20100	18980	17800	16860
6	18630	18180	18050	18410	19320	19870	21970	21800	20050	18950	17730	16840
7	18580	18190	18060	18420	19330	19950	21880	21620	20020	18920	17710	16790
8	18550	18200	18060	18420	19370	20000	21860	21470	19980	18890	17680	16750
9	18530	18200	18070	18440	19400	20020	21810	21450	19960	18860	17620	16710
10	18510	18210	18090	18480	19420	20010	21760	21400	19940	18810	17620	16680
11	18480	18230	18120	18410	19450	20040	21680	21360	19900	18740	17580	16640
12	18440	18230	18110	18530	19460	20060	21790	21290	19860	18680	17550	16610
13	18410	18230	18110	18550	19480	20070	21890	21290	19830	18650	17530	16570
14	18360	18240	18090	18590	19520	20090	21960	21290	19760	18630	17490	16530
15	18330	18240	18070	18610	19530	20140	21930	21300	19730	18580	17460	16500
16	18270	18240	18050	18630	19550	20150	21940	21280	19670	18540	17420	16470
17	18270	18250	18080	18670	19560	20190	22010	21350	19610	18510	17370	16460
18	18270	18200	18100	18700	19590	20180	22180	21360	19580	18430	17490	16420
19	18260	18140	18140	18720	19600	20210	22220	21340	19540	18410	17580	16380
20	18260	18130	18160	18760	19630	20210	22270	21300	19500	18680	17580	16280
21	18260	18100	18160	18800	19640	20300	22260	21260	19450	18330	17550	16000
22	18260	18090	18160	18830	19650	20670	22240	21180	19400	18300	17450	15500
23	18250	18080	18180	18870	19670	21110	22220	21080	19380	18270	17320	14980
24	18250	18050	18200	18900	19680	21210	22180	20960	19340	18220	17260	14330
25	18240	18040	18240	18930	19700	21280	22150	20880	19290	18180	17240	13770
26	18230	18010	18260	19000	19690	21340	22160	20600	19240	18140	17200	13190
27	18230	18000	18290	19040	19710	21340	22200	20550	19220	18130	17180	12550
28	18220	18000	18310	19060	19720	21380	22300	20500	19180	18070	17130	11940
29	18200	18010	18340	19100	19730	21480	22360	20450	19180	18020	17100	11330
30	18200	18020	18360	19110	---	21580	22360	20400	19150	17970	17070	10700
31	18200	---	18380	19160	---	21670	---	20330	---	17970	17040	---
MAX	18760	18250	18380	19160	19730	21670	22360	22400	20280	19150	17930	17010
MIN	18200	18000	18020	18400	19180	19770	21680	20330	19150	17970	17040	10700
(+)	5190.82	5190.65	5190.99	5191.72	5192.23	5193.82	5194.35	5192.74	5191.71	5190.60	5189.67	5182.53
(++)	-590	-180	+360	+780	+570	+1940	+690	-2030	-1180	-1180	-930	-6340

CAL YR 1999 MAX 23400 MIN 17110 (++) -4790
WTR YR 2000 MAX 22400 MIN 10700 (++) -8090

(+) 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 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. 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. No flow for many days.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	9.7	10	8.1	6.8	8.8	35	100	5.2	2.7	2.6	3.5
2	7.4	9.6	10	7.8	6.7	8.8	34	101	2.0	2.7	2.7	3.5
3	7.6	9.5	10	7.6	6.9	8.8	31	139	2.0	2.7	2.7	3.5
4	7.7	9.6	10	7.6	7.1	9.0	29	152	2.0	2.6	2.6	3.5
5	7.9	10	10	7.7	7.2	9.0	86	143	2.0	2.6	2.6	3.5
6	8.0	10	10	7.5	7.2	8.9	145	142	1.7	2.6	2.7	3.5
7	8.1	9.8	9.4	7.3	7.3	9.0	125	143	1.2	2.6	2.7	3.5
8	8.2	10	8.4	7.5	7.4	9.0	119	101	1.2	2.6	2.7	3.5
9	8.5	9.2	8.5	7.5	7.5	9.0	118	49	1.0	2.6	2.7	3.3
10	8.7	8.8	8.4	7.4	7.6	9.0	118	47	.99	2.7	2.7	3.1
11	8.7	8.9	8.2	7.1	7.6	7.7	107	27	.98	2.7	2.7	3.0
12	8.9	8.8	8.0	7.1	7.9	6.5	74	10	.97	2.6	2.8	2.8
13	9.5	8.8	7.5	7.0	8.4	6.6	50	10	.90	2.6	2.8	2.8
14	9.6	8.8	7.1	6.5	8.5	6.7	74	10	.82	2.6	2.8	2.7
15	9.6	8.7	7.0	5.6	8.5	6.7	99	9.9	.81	2.6	2.7	2.8
16	9.8	8.6	7.0	6.0	8.7	6.8	99	9.8	2.7	2.6	2.6	2.9
17	9.7	8.9	7.0	6.0	8.9	6.8	46	9.6	5.0	2.6	2.6	2.8
18	10	28	7.2	6.0	9.0	6.7	16	8.5	4.9	2.6	12	2.6
19	10	29	7.4	6.4	9.4	6.7	37	8.8	3.7	2.6	3.7	2.5
20	9.9	14	7.6	6.4	9.6	6.9	85	9.1	2.7	2.6	2.8	38
21	9.7	14	7.2	6.0	9.7	6.9	99	9.1	2.8	2.6	2.8	136
22	9.7	14	6.4	6.0	9.7	7.0	99	34	2.8	2.6	32	248
23	9.9	13	6.6	6.0	9.7	6.9	98	57	2.8	2.6	51	281
24	10	14	6.7	5.9	9.6	7.0	100	40	2.7	2.6	19	275
25	10	13	7.0	6.2	9.0	7.2	101	9.6	2.8	2.6	3.6	269
26	10	12	7.1	6.4	8.4	7.2	102	9.5	2.8	2.6	3.5	289
27	10	11	7.2	6.4	8.6	32	103	9.0	2.8	2.6	3.6	300
28	10	11	7.3	6.4	8.7	54	82	8.8	2.7	2.6	3.5	298
29	10	10	7.5	6.3	8.7	59	101	8.8	2.8	2.6	3.5	295
30	9.8	10	7.7	6.3	---	37	100	8.6	2.7	2.6	3.5	292
31	9.7	---	8.0	6.5	---	37	---	8.5	---	2.6	3.5	---
TOTAL	283.4	350.7	247.4	208.5	240.3	418.6	2512	1432.6	70.47	81.1	193.7	2780.3
MEAN	9.14	11.7	7.98	6.73	8.29	13.5	83.7	46.2	2.35	2.62	6.25	92.7
MAX	10	29	10	8.1	9.7	59	145	152	5.2	2.7	51	300
MIN	6.8	8.6	6.4	5.6	6.7	6.5	16	8.5	.81	2.6	2.6	2.5
AC-FT	562	696	491	414	477	830	4980	2840	140	161	384	5510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2000, BY WATER YEAR (WY)

MEAN	26.2	29.3	21.2	23.9	28.0	65.1	184	188	75.6	25.7	44.6	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1943 - 2000	
ANNUAL TOTAL	15214.1		8819.07			
ANNUAL MEAN	41.7		24.1		61.7	
HIGHEST ANNUAL MEAN					178	1973
LOWEST ANNUAL MEAN					10.6	1953
HIGHEST DAILY MEAN	424	Aug 17	300	Sep 27	3640	Jun 19 1958
LOWEST DAILY MEAN	5.1	Sep 30	.81	Jun 15	.00	May 24 1943
ANNUAL SEVEN-DAY MINIMUM	6.4	Sep 27	.92	Jun 9	.00	May 24 1943
INSTANTANEOUS PEAK FLOW					[a]16300	Aug 29 1943
INSTANTANEOUS PEAK STAGE					[b]6.63	Apr 28 1998
ANNUAL RUNOFF (AC-FT)	30180		17490		44690	
10 PERCENT EXCEEDS	78		85		151	
50 PERCENT EXCEEDS	24		7.7		18	
90 PERCENT EXCEEDS	7.7		2.6		.00	

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°37'22", 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 5,140 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharge, 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 precipition in inches.

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	.79	.46	.60	1.0	1.3	.38	.52	.55	.66	3.4	.75	.68
2	.73	.75	.71	e.30	e.40	.35	.45	.59	22	.75	.63	.57
3	.73	.63	.63	.25	.60	.43	.54	.61	.69	.80	.63	.53
4	.80	.55	.45	e.20	.38	.38	.53	.64	.70	.90	.62	.59
5	.81	.60	e.50	e.20	.37	.34	.53	.59	.69	.98	.82	.62
6	.81	.47	.58	e.30	.24	.60	.52	.59	.75	.73	.72	.65
7	.82	.46	.52	e.30	.41	3.8	.52	.57	.71	.68	.72	.64
8	.79	.50	e.50	e.30	.46	.42	.49	.59	.69	.66	.92	.61
9	.78	.61	e.50	e.30	.50	.43	.53	.59	1.3	.72	.66	.50
10	.68	.64	.56	e.30	.42	.61	.54	.59	.73	.76	.64	.44
11	.75	.56	.59	e.40	.44	.41	.49	.61	.73	1.7	.64	.58
12	.73	.64	.76	.41	.37	.46	.51	.61	.73	3.1	1.4	.64
13	.73	.51	e.60	.47	.39	.52	.49	.51	.71	.93	.67	.61
14	.66	.48	e.50	.43	.41	.62	.52	.56	.64	1.2	.69	1.0
15	.68	.54	e.60	e.40	.46	.49	.47	.57	.64	.77	.70	.46
16	3.8	.61	1.2	.33	.47	.65	.47	.64	.73	.83	.66	.44
17	1.6	.67	e.60	.44	.39	.51	.49	.54	.65	.81	.69	.48
18	.67	.60	e.50	.47	.44	.48	.50	.59	.64	1.6	8.7	.85
19	.68	.63	.54	1.1	.47	.50	.50	.50	.96	.66	3.8	.58
20	.70	.51	e.50	.50	.45	.54	.51	.56	.88	.64	.87	.55
21	.73	.48	.48	.41	.52	6.5	.52	.59	.87	1.4	.84	1.3
22	.71	.55	e.40	.41	2.8	6.9	.54	.67	.75	.57	.84	.92
23	.69	.63	e.30	.55	.48	3.8	.52	.68	.66	.56	.74	.47
24	.66	.63	.25	.44	.55	.49	.62	.63	.65	.61	.72	.35
25	1.0	e.50	.42	.45	.36	.62	.53	1.1	.70	1.5	.66	.51
26	.70	.55	e.40	.36	.66	.45	.52	.61	.75	.84	.69	.49
27	.55	.48	e.30	.48	.20	.64	.55	.65	.71	.59	.64	.46
28	.53	.48	e.30	.40	.77	1.8	.58	.63	3.3	.71	.68	.47
29	.60	.61	.34	e.40	.40	.51	.47	.67	.79	.66	.82	.46
30	.50	.64	e.30	e.40	---	.53	.56	1.0	4.2	.83	1.3	.42
31	.40	---	e.40	.66	---	1.5	---	.65	---	.77	1.2	---
TOTAL	25.81	16.97	15.83	13.36	16.11	36.66	15.53	19.48	49.61	31.66	35.06	17.87
MEAN	.83	.57	.51	.43	.56	1.18	.52	.63	1.65	1.02	1.13	.60
MAX	3.8	.75	1.2	1.1	2.8	6.9	.62	1.1	22	3.4	8.7	1.3
MIN	.40	.46	.25	.20	.20	.34	.45	.50	.64	.56	.62	.35
AC-FT	51	34	31	26	32	73	31	39	98	63	70	35
(+)	.94	.00	.02	.12	.26	.74	.06	.00	.62	.22	.67	.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	1.19	.54	.32	.28	.39	1.12	.85	.73	1.02	1.76	1.80	1.18
MAX	1.83	.58	.56	.43	.62	1.97	1.32	1.06	1.65	2.43	2.49	2.44
(WY)	1997	1997	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	309.99		293.95			
ANNUAL MEAN	.85		.80		.93	
HIGHEST ANNUAL MEAN					1.09	1997
LOWEST ANNUAL MEAN					.80	2000
HIGHEST DAILY MEAN	22	Aug 3	22	Jun 2	39	Mar 15 1998
LOWEST DAILY MEAN	.07	Jan 12	.20	Jan 4	.00	Nov 28 1996
ANNUAL SEVEN-DAY MINIMUM	.10	Jan 6	.26	Jan 2	.05	Jan 6 1997
INSTANTANEOUS PEAK FLOW			489	Jun 2	1230	Jul 14 1990
INSTANTANEOUS PEAK STAGE			2.60	Jun 2	4.50	Jul 14 1990
ANNUAL RUNOFF (AC-FT)	615		583		677	
10 PERCENT EXCEEDS	1.1		.94		1.3	
50 PERCENT EXCEEDS	.55		.60		.47	
90 PERCENT EXCEEDS	.17		.40		.11	

e Estimated

(+) Total rainfall accumulation inches

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. 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,250 ft^3/s, July 9, 1988, gage height, 12.10 ft, from floodmarks from step-backwater analysis of channel; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 2,970 ft^3/s, at 1857 hours June 2, gage height, 7.60 ft; no flow most of time.

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	.00	.00	.00	11	9.6	.00	.00	.00	.00	17	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	119	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	1.1	.00	4.7	.00	6.8	.25
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	34	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	20	18	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	3.7	.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	26	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	8.7	38	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.64	.63	.00
14	.00	.00	.00	.12	.00	.00	.00	.00	.00	7.1	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	39	.00	.00	.00	2.8	.00	.00	.00	.00	11	.00	.00
17	23	.00	.00	.00	2.7	.00	.00	.00	.00	1.1	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.55	128	2.6
19	.00	.00	.00	.33	.00	.00	.00	.00	.00	.00	37	.00
20	.00	.00	.00	.00	.00	.00	.06	.00	.00	.00	2.6	.00
21	.00	.00	.00	.00	.00	86	.00	.00	.00	7.1	.00	.55
22	.00	.00	.00	.00	31	100	.00	.00	.03	.00	.20	8.1
23	.00	.00	.00	.00	.00	73	.00	.00	.83	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.29	.00	3.8	.00	17	.78	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.6	.00	.00
27	.00	.00	.00	1.4	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	25	.00	.00	51	.40	.00	.00
29	.00	.00	.00	.00	.00	.10	.59	.00	.00	13	9.2	.00
30	.00	.00	.00	2.2	---	.00	.00	.00	2.1	9.9	.30	.00
31	.00	---	.00	4.6	---	4.0	---	.00	---	.00	.60	---
TOTAL	62.00	0.00	0.00	19.65	46.10	322.39	1.75	3.80	181.36	147.09	242.11	11.50
MEAN	2.00	.000	.000	.63	1.59	10.4	.058	.12	6.05	4.74	7.81	.38
MAX	39	.00	.00	11	31	100	1.1	3.8	119	26	128	8.1
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	123	.00	.00	39	91	639	3.5	7.5	360	292	480	23
(+)	.49	.01	.02	.13	.23	1.30	.04	.02	1.44	.37	1.72	.11

CAL YR 1999 TOTAL 1412.59 MEAN 4.79 MAX 229 MIN .00 AC-FT 2800
WTR YR 2000 TOTAL 1037.75 MEAN 2.84 MAX 128 MIN .00 AC-FT 2060

(+) Total rainfall accumulation in inches

08329838 SOUTH FORK HAHN ARROYO AT ALBUQUERQUE, NM

LOCATION.--Lat 35°07'16", long 106°34'04", in NE$^1/_4$SE$^1/_4$ 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 estimated daily discharges, 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.07	.09	.09	.23	.04	.07	.15	.12	.19	.07	.07
2	.07	.08	.05	.01	.08	.05	.01	.08	.66	.01	.06	.01
3	.03	.07	.03	e.00	.07	.12	.07	.07	.01	.07	.08	.00
4	.12	.08	.00	e.00	.08	.03	.08	.07	.02	.06	.07	.09
5	.11	.06	.02	e.00	.03	.01	.10	.11	.07	.07	.01	.07
6	.15	.07	e.03	e.00	.04	.05	.08	.00	.07	.06	.00	.08
7	.11	.03	.03	e.00	.08	1.2	.10	.02	.12	.07	.08	.06
8	.08	.08	e.03	e.00	.07	.03	.00	.14	.08	.37	3.2	.09
9	.06	.08	e.03	e.01	.07	.05	.02	.07	.52	.01	.05	.00
10	.06	.11	.07	e.02	.05	.05	.10	.11	.00	.09	.06	.00
11	.07	.07	.05	e.03	.08	.04	.07	.11	.01	.33	.05	.07
12	.09	.08	.03	.04	.04	.04	.08	.09	.08	.25	1.6	.09
13	.14	.07	e.00	.04	.06	.04	.11	.00	.09	.12	.05	.06
14	.06	.04	e.00	.06	.05	.02	.13	.03	.07	.45	.10	.06
15	.09	.08	e.00	.03	.06	.04	.00	.07	.07	.00	.06	.06
16	.81	.09	e.00	.06	.07	.04	.02	.10	.06	.18	.06	.00
17	.67	.07	.04	.08	.06	.04	.11	.08	.00	.08	.06	.00
18	.09	.09	.03	.06	.06	.01	.08	.08	.01	.07	8.0	.18
19	.08	.07	.07	.05	.03	.00	.09	.10	.13	.07	1.5	.08
20	.09	.07	.00	.05	.03	.03	.08	.01	.06	.07	.18	.06
21	.05	.04	e.00	.07	.08	2.7	.07	.02	.06	.06	.09	.19
22	.07	.07	e.00	.03	.99	2.6	.00	.07	.06	.00	.07	.15
23	.06	.06	.00	.04	.09	1.9	.02	.07	.06	.03	.06	.00
24	.06	.06	.00	.07	.12	.07	.11	.07	.00	.07	.17	.00
25	.10	.09	.04	.06	.12	.03	.08	.22	.00	.73	.07	.10
26	.06	.07	.02	.07	.06	.03	.14	.07	.07	.19	.00	.08
27	.06	.00	.00	.15	.03	.09	.11	.00	.06	.07	.01	.09
28	.07	.00	.00	.13	.08	1.6	.08	.10	6.9	.14	.13	.09
29	.09	.06	.01	.06	.04	.10	.00	.08	.09	.22	.27	.06
30	.03	.06	.03	.05	---	.08	.03	.07	.08	.12	.09	.03
31	.02	---	.02	.38	---	.25	---	.07	---	.07	.14	---
TOTAL	3.75	1.97	0.72	1.74	2.95	11.38	2.04	2.33	9.63	4.32	16.44	1.92
MEAN	.12	.066	.023	.056	.10	.37	.068	.075	.32	.14	.53	.064
MAX	.81	.11	.09	.38	.99	2.7	.14	.22	6.9	.73	8.0	.19
MIN	.02	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00
AC-FT	7.4	3.9	1.4	3.5	5.9	23	4.0	4.6	19	8.6	33	3.8
(+)	.51	.02	.04	.18	.28	1.60	.01	.06	1.33	.41	2.80	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	.39	.19	.16	.14	.14	.40	.32	.24	.48	.90	.83	.17
MAX	.76	.30	.38	.22	.28	.68	.59	.47	1.23	2.34	1.23	.38
(WY)	1997	1997	1998	1997	1998	1998	1997	1999	1999	1997	1997	1997
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	139.71		59.19			
ANNUAL MEAN	.38		.16		.36	
HIGHEST ANNUAL MEAN					.57	1997
LOWEST ANNUAL MEAN					.16	2000
HIGHEST DAILY MEAN	31	Jun 16	8.0	Aug 18	31	Jul 28 1997
LOWEST DAILY MEAN	.00	May 8	.00	Nov 27	.00	Dec 8 1996
ANNUAL SEVEN-DAY MINIMUM	.01	Dec 20	.00	Jan 2	.00	Jan 2 2000
INSTANTANEOUS PEAK FLOW			396	Jun 28	1240	Jun 16 1999
INSTANTANEOUS PEAK STAGE			3.17	Jun 28	4.72	Jun 16 1999
ANNUAL RUNOFF (AC-FT)	277		117		264	
10 PERCENT EXCEEDS	.42		.15		.46	
50 PERCENT EXCEEDS	.08		.07		.08	
90 PERCENT EXCEEDS	.03		.00		.01	

e Estimated

(+) Total rainrall 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 1999 TO SEPTEMBER 2000
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	.01	.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	.05	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.01	.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	.01	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.80	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.01	.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	.01	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.02	.00	.00	.00	.00	.00	.00	1.1	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.0	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23	.00
21	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.05	.06	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.07	.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	.09	.00	.00	1.4	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.07	.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	0.10	0.05	0.30	0.00	0.00	1.47	0.00	3.13	0.00
MEAN	.000	.000	.000	.003	.002	.010	.000	.000	.049	.000	.10	.000
MAX	.00	.00	.00	.02	.05	.09	.00	.00	1.4	.00	1.1	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.2	.1	.6	.00	.00	2.9	.00	6.2	.00
(+)	.46	.02	.04	.20	.32	1.97	.04	.13	1.45	.34	2.39	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	.034	.031	.043	.059	.016	.016	.042	.018	.050	.070	.067	.008
MAX	.10	.12	.16	.19	.062	.047	.15	.050	.079	.21	.10	.033
(WY)	1997	1998	1998	1998	1998	1998	1997	1999	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	8.58		5.05			
ANNUAL MEAN	.024		.014		.038	
HIGHEST ANNUAL MEAN					.060	1997
LOWEST ANNUAL MEAN					.014	2000
HIGHEST DAILY MEAN	1.9	Jun 16	1.4	Jun 28	2.3	Oct 4 1996
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1996
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 6 1996
INSTANTANEOUS PEAK FLOW			76	Jun 28	439	Aug 14 1980
INSTANTANEOUS PEAK STAGE			1.52	Jun 28	1.94	Aug 14 1980
ANNUAL RUNOFF (AC-FT)	17		10		28	
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$^1/_4$NE$^1/_4$ 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 estimated daily discharges, which are poor. Some minor streamflow may exist on days where daily mean discharges have been recorded as zero due to the sensitivity limits of the streamflow monitoring equipment. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.59	.18	.00	.04	2.2	.01	.90	e1.5	.81	2.3	.00	1.1
2	.30	.12	.00	.00	e.50	.04	.07	e1.5	4.1	.15	.00	.27
3	.63	.23	.00	.19	e.50	.70	.46	1.4	.37	1.8	.00	.34
4	1.1	.37	.00	.11	e.50	.74	.57	2.2	.15	.74	.01	.77
5	1.0	.30	.00	.14	e.50	.78	1.2	e2.0	.75	.83	.00	.59
6	1.2	.28	.00	e.10	e.50	1.3	.88	e1.5	.62	1.0	.00	.60
7	1.1	.21	.02	e.10	e.60	7.8	2.2	e1.0	.92	.90	.01	.62
8	.48	.60	.14	e.10	e.60	.53	1.8	e1.0	1.1	2.4	8.1	1.4
9	.58	.51	.00	.12	e.70	.60	2.6	1.4	4.7	.20	5.1	.27
10	.77	.78	.01	.54	e.70	.61	e2.0	1.9	.11	2.1	4.9	.00
11	.92	.42	.04	.18	e.70	.61	e2.0	1.5	.18	2.0	4.2	.71
12	.53	.44	.11	.26	e.80	.55	e1.5	1.3	.64	3.4	13	1.4
13	1.2	.30	e.05	1.1	e.90	.36	e1.5	.05	.85	1.7	1.9	.46
14	.52	.12	.01	2.9	e1.0	.08	e1.5	1.1	.63	4.5	1.7	.68
15	.70	.13	.09	1.6	e1.0	.22	e1.5	2.2	.71	.61	.93	.66
16	5.9	.14	.22	1.8	1.2	.21	e1.5	e1.5	.63	2.2	.22	.04
17	4.7	.31	.15	2.6	1.1	.16	e1.5	e1.2	.00	2.8	.11	.05
18	.66	.16	.12	2.5	1.9	.00	e1.5	e1.0	.22	1.8	26	.63
19	.48	.19	.08	2.4	2.6	.14	e1.5	1.1	2.0	.87	11	.58
20	.49	.41	.14	1.6	1.6	.68	e1.4	.28	.68	.91	3.8	.54
21	.42	.21	.07	2.2	5.4	8.1	e1.3	.44	.68	.77	2.5	1.2
22	.51	.01	.08	2.6	11	4.0	e1.3	.84	.77	.01	1.1	2.5
23	.65	.00	.13	1.5	.75	4.4	e1.2	.42	.86	.53	2.5	.15
24	.62	.00	.23	1.4	1.0	.04	e1.2	.42	.00	.83	16	.12
25	.58	.00	.04	.34	.97	.00	e1.0	1.3	.06	3.1	9.4	.48
26	.33	.00	.07	.23	.96	.22	e1.0	.25	.76	2.1	.65	.59
27	.29	.00	.13	.28	.19	.11	e1.0	.00	.63	.93	1.0	.82
28	.29	.00	.05	.34	.48	6.6	e1.0	.18	15	1.3	1.5	.91
29	.51	.00	.02	.11	.09	1.7	.56	.27	2.3	1.7	2.2	1.8
30	.04	.00	.10	.18	---	.87	1.8	.64	1.7	.02	1.0	1.5
31	.00	---	.43	3.9	---	2.4	---	.74	---	.01	1.2	---
TOTAL	28.09	6.42	2.53	31.46	40.94	44.56	39.44	32.13	42.93	44.51	120.03	21.78
MEAN	.91	.21	.082	1.01	1.41	1.44	1.31	1.04	1.43	1.44	3.87	.73
MAX	5.9	.78	.43	3.9	11	8.1	2.6	2.2	15	4.5	26	2.5
MIN	.00	.00	.00	.00	.09	.00	.07	.00	.00	.01	.00	.00
AC-FT	56	13	5.0	62	81	88	78	64	85	88	238	43
(+)	.55	.00	.03	.18	.30	1.67	.02	.08	1.52	.50	2.82	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	1.72	1.00	1.06	1.00	.98	2.03	1.87	1.02	2.55	2.83	3.17	1.20
MAX	2.78	1.81	2.59	1.19	1.63	3.25	2.39	1.47	6.95	4.95	3.87	2.33
(WY)	1997	1997	1998	1997	1998	1998	1999	1999	1999	1997	2000	1997
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	704.95		454.82			
ANNUAL MEAN	1.93		1.24		1.71	
HIGHEST ANNUAL MEAN					2.17	1999
LOWEST ANNUAL MEAN					1.24	2000
HIGHEST DAILY MEAN	170	Jun 16	26	Aug 18	170	Jun 16 1999
LOWEST DAILY MEAN	.00	May 15	.00	Oct 31	.00	Dec 15 1996
ANNUAL SEVEN-DAY MINIMUM	.00	Nov 23	.00	Nov 23	.00	Nov 23 1999
INSTANTANEOUS PEAK FLOW			500	Jun 28	6120	Jun 16 1999
INSTANTANEOUS PEAK STAGE			2.20	Jun 28	5.98	Jun 16 1999
ANNUAL RUNOFF (AC-FT)	1400		902		1240	
10 PERCENT EXCEEDS	3.2		2.4		3.4	
50 PERCENT EXCEEDS	.70		.63		.64	
90 PERCENT EXCEEDS	.06		.02		.06	

e Estimated

(+) Total rainfall accumulation in inches

08329872 PINO ARROYO AT VENTURA BOULEVARD AT ALBUQUERQUE, NM

LOCATION.--Lat 35°09'16", long 106°32'22", Bernalillo County, Hydrologic Unit 13020203, in Elena Gallegos Grant, on left bank in Tanoan Country Club, and 30 ft upstream from Ventura Boulevard in Albuquerque.

DRAINAGE AREA.--5.40 mi^2.

PERIOD OF RECORD.--August 1990 to September 1996 (seasonal records). October 1996 to September 2000 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 5,490 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair, except for estimated daily discharges, which are poor.

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	.10	.04	.03	.05	.10	.09	.17	.11	.16	.33	.21	.14
2	.10	e.05	.08	.04	.05	e.10	.20	.13	.23	.31	.22	.19
3	.10	e.05	.05	.06	.07	.12	.21	.10	.17	.33	.21	.17
4	.13	.06	.00	.04	.05	.11	.11	.13	.17	.34	.20	.16
5	.11	.07	.01	.04	.07	.10	.10	.20	.17	.26	.26	.25
6	.08	.04	.02	.03	.08	.10	.09	e.20	.17	.21	.28	.22
7	.08	.02	.03	.03	.09	.34	e.10	e.20	.17	.23	.22	.19
8	.10	e.05	.01	e.02	.09	e.10	e.10	e.15	.10	.30	.27	.19
9	.06	e.05	.03	.01	.08	e.10	e.10	e.15	.27	.21	.27	.20
10	.12	.05	.02	.04	.05	.05	.13	.15	.17	.20	.22	.17
11	.10	.06	.03	.03	.04	.06	e.10	.18	.18	.18	.25	.14
12	.05	.04	.03	.02	.06	.06	e.10	.16	.17	.23	.46	.13
13	.05	e.05	.03	.07	.05	.09	.15	.15	.16	.22	.20	.16
14	.04	e.05	.07	.02	.07	.11	.12	.11	.15	.33	.24	.10
15	.06	e.05	.07	.05	.06	.08	.14	.14	.14	.19	.29	.12
16	.48	e.05	.02	.05	.06	.10	.15	.13	.16	.18	.20	.14
17	.12	.09	.04	.05	.07	.08	.19	.13	.17	.24	.21	.14
18	.06	.10	.03	.08	.06	.10	.19	.16	.17	.32	1.3	.15
19	.04	.10	.05	.07	.10	.09	.19	.14	.18	.27	2.1	.15
20	.10	.06	.03	.06	.07	.09	.19	.12	.23	.25	.18	.12
21	.04	.05	.04	.08	.07	.54	.17	.16	.24	.22	.17	.13
22	e.05	.03	.03	e.05	.32	e4.0	.14	.15	.20	.24	.09	.11
23	e.05	.02	.05	.03	.08	.54	.13	.15	.20	.27	.14	.11
24	e.05	.03	.03	.04	e.06	.10	.07	.13	.20	.19	.21	.12
25	e.05	.02	.02	.04	e.05	.12	.06	.13	.22	.37	.22	.09
26	.05	.07	.11	.04	.10	.11	.06	.14	.19	.18	.19	.09
27	.03	.03	.07	.05	e.10	.11	.09	.17	.25	.14	.17	.08
28	.04	.01	.04	.04	.14	.27	.11	.17	4.0	.28	.13	.08
29	.08	.02	.03	.08	.11	.16	.09	.16	.20	.16	.32	.08
30	.09	.04	.04	.05	---	.14	.10	.18	.26	.19	.14	.13
31	.08	---	.03	.13	---	.19	---	.20	---	.24	.16	---
TOTAL	2.69	1.45	1.17	1.49	2.40	8.35	3.85	4.68	9.45	7.61	9.73	4.25
MEAN	.087	.048	.038	.048	.083	.27	.13	.15	.31	.25	.31	.14
MAX	.48	.10	.11	.13	.32	4.0	.21	.20	4.0	.37	2.1	.25
MIN	.03	.01	.00	.01	.04	.05	.06	.10	.10	.14	.09	.08
AC-FT	5.3	2.9	2.3	3.0	4.8	17	7.6	9.3	19	15	19	8.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)

MEAN	.18	.11	.062	.054	.058	.20	.18	.16	.22	.31	.27	.22
MAX	.25	.19	.10	.069	.083	.27	.26	.19	.31	.59	.36	.46
(WY)	1997	1998	1998	1997	2000	2000	1997	1997	2000	1997	1997	1997
MIN	.087	.048	.038	.046	.036	.12	.13	.11	.14	.18	.17	.13
(WY)	2000	2000	2000	1998	1997	1997	2000	1998	1998	1999	1998	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000		
ANNUAL TOTAL	45.37		57.12				
ANNUAL MEAN	.12		.16		.17		
HIGHEST ANNUAL MEAN					.23		1997
LOWEST ANNUAL MEAN					.14		1999
HIGHEST DAILY MEAN	1.8	Aug 3	4.0	Mar 22	6.4	Sep 21	1997
LOWEST DAILY MEAN	.00	Jan 3	.00	Dec 4	.00	Dec 18	1996
ANNUAL SEVEN-DAY MINIMUM	.01	Jan 27	.02	Dec 4	.01	Dec 18	1996
INSTANTANEOUS PEAK FLOW			222	Jun 28	222	Jun 28	2000
INSTANTANEOUS PEAK STAGE			3.48	Jun 28	3.48	Jun 28	2000
ANNUAL RUNOFF (AC-FT)	90		113		122		
10 PERCENT EXCEEDS	.19		.24		.25		
50 PERCENT EXCEEDS	.09		.11		.11		
90 PERCENT EXCEEDS	.03		.04		.03		

e Estimated

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 5,310 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, 103 ft^3/s, Aug. 3, 1978, gage height, 4.09 ft, from rating curve extended above 10 ft^3/s on basis of slope-area measurement of peak flow; no flow most time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 40 ft^3/s, at 2127 hours Aug. 19, gage height, 3.31 ft; no flow most of time.

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	.00	.00	---	---	---	---	.00	.00	.00	.02	.00	.00
2	.00	.00	---	---	---	---	.00	.00	.06	.00	.00	.00
3	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
4	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
5	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
6	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
7	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
9	.00	.00	---	---	---	---	.00	.00	.16	.00	.00	.00
10	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
11	.00	.00	---	---	---	---	.00	.00	.00	.01	.00	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.31	.00
13	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
14	.00	.00	---	---	---	---	.00	.00	.00	.02	.00	.00
15	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
16	.12	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
17	.01	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	.00	.00	.00	.00	.22	.36	.00
19	.00	---	---	---	---	.00	.00	.00	.00	.00	.76	.00
20	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
21	.00	---	---	---	---	.10	.00	.00	.00	.00	.00	.00
22	.00	---	---	---	---	.13	.00	.00	.00	.00	.00	.00
23	.00	---	---	---	---	.08	.00	.00	.00	.00	.00	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
25	.00	---	---	---	---	.00	.00	.02	.00	.01	.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	.53	.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	0.13	---	---	---	---	---	0.00	0.02	0.75	0.28	1.43	0.00
MEAN	.004	---	---	---	---	---	.000	.001	.025	.009	.046	.000
MAX	.12	---	---	---	---	---	.00	.02	.53	.22	.76	.00
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.3	---	---	---	---	---	.00	.04	1.5	.6	2.8	.00
(+)	.46	.00	.07	.16	.22	1.26	.01	.06	1.13	.72	2.54	.07

(+) 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 .5 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 (seasonal records).

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 fair.

EXTREMES PERIOD OF RECORD.--Maximum discharge, 11.0 ft^3/s, Aug. 10, 1999, gage height 1.55 ft; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 4.6 ft^3/s, July 8 at 1717 hours; gage height 1.41 ft; no flow most of time.

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	.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	.04	.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	.02	.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	.02	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.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	.01	.00
22	.00	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.01	.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	.01	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.02	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.05	0.04	0.00
MEAN	.001	.000	.000	.000	.000	.001	.000	.000	.000	.002	.001	.000
MAX	.02	.00	.00	.00	.00	.03	.00	.00	.00	.04	.02	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.04	.00	.00	.00	.00	.08	.00	.00	.00	.1	.08	.00
(+)	1.38	.00	.09	.24	.73	3.45	.09	.08	.76	3.07	3.15	.06

CAL YR 1999 TOTAL 0.50 MEAN .002 MAX .11 MIN .00 AC-FT 1.0
WTR YR 2000 TOTAL 0.15 MEAN .000 MAX .04 MIN .00 AC-FT .3

(+) Total rainfall accumulation in inches.

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.

WATER-DISCHARGE RECORDS

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 estimated daily discharges, which are fair. Low flow values of 17 ft^3/s or less are obtained from gaging staion (08329914), 500 ft downstream. Prior to water year 1997, any discharges below 17 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.95	.28	.32	21	12	.79	.93	1.2	1.7	46	1.1	1.5
2	.93	.28	.27	.48	.43	.66	.44	1.8	157	.84	1.2	1.3
3	.82	.32	.31	.25	.38	.57	.46	1.5	e5.0	.89	14	3.1
4	.93	.29	.34	.13	.45	.63	.41	1.5	.82	.90	1.0	1.7
5	1.1	.29	.25	.17	.38	.40	.40	1.5	.89	.92	.84	1.5
6	1.0	.29	.25	e.15	.43	.38	.38	1.3	.83	.93	.89	1.5
7	.97	.30	.34	e.10	.31	82	.39	1.1	.68	.81	1.3	1.5
8	1.0	.26	.37	e.10	.41	.56	.46	1.2	.98	40	35	1.7
9	1.1	.41	.49	.32	.45	.41	.46	1.6	61	1.4	2.4	1.7
10	.92	.52	.31	e.20	.45	.38	.40	1.4	4.0	.88	1.2	1.3
11	.92	1.7	.37	.48	.40	.37	.42	1.3	1.9	43	1.1	1.4
12	1.1	.34	.34	e.45	.39	.35	.42	1.2	1.8	27	215	1.5
13	1.1	.36	e.25	e.35	.42	.27	.43	1.4	2.2	2.2	12	1.5
14	.93	.27	.18	e.30	.67	.32	.42	1.1	1.9	19	1.2	1.6
15	.91	.24	e.15	e.30	.61	.27	.45	1.2	2.8	1.0	1.3	1.6
16	57	.31	e.20	e.30	.54	.26	.40	1.2	1.8	17	1.4	1.6
17	89	.32	.43	.30	3.9	e.25	.46	1.2	1.2	4.9	1.4	1.5
18	.46	1.5	.40	.29	.57	e.25	.46	1.2	.91	5.2	292	1.5
19	.47	.39	.32	1.1	.53	e.25	.57	1.3	3.4	.93	238	3.0
20	.38	.37	.41	.42	.47	e.30	.71	1.2	1.5	1.5	45	1.7
21	.42	.33	e.25	.36	.56	170	.86	.82	1.3	11	1.5	1.7
22	.40	.32	e.20	.28	71	184	.91	.93	1.8	3.1	1.9	17
23	.37	.39	e.20	.40	.97	157	1.0	.95	3.5	1.0	1.7	1.6
24	.36	.34	e.15	.24	.80	.17	1.3	1.0	1.4	.83	1.7	1.0
25	.52	.26	e.15	.34	.65	.18	1.4	8.2	1.0	11	2.1	1.5
26	.44	.37	e.15	.33	4.5	.14	1.4	8.2	1.0	46	1.6	1.6
27	.41	.31	e.20	.56	.61	.12	1.5	1.6	.61	.96	1.4	1.6
28	.36	.25	.48	.33	.54	46	1.6	1.5	234	1.1	1.5	1.6
29	.42	.34	.62	.30	.70	5.1	2.6	1.5	8.3	24	16	1.7
30	.37	.32	.43	.33	---	.52	1.3	1.6	.89	20	2.0	1.6
31	.29	---	.51	4.9	---	6.7	---	1.7	---	1.6	1.9	---
TOTAL	166.35	12.27	9.64	35.56	104.52	659.60	23.34	54.40	506.11	335.89	900.63	64.6
MEAN	5.37	.41	.31	1.15	3.60	21.3	.78	1.75	16.9	10.8	29.1	2.15
MAX	89	1.7	.62	21	71	184	2.6	8.2	234	46	292	17
MIN	.29	.24	.15	.10	.31	.12	.38	.82	.61	.81	.84	1.0
AC-FT	330	24	19	71	207	1310	46	108	1000	666	1790	128

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2000, BY WATER YEAR (WY)

MEAN	10.4	8.58	5.34	8.93	4.45	8.66	7.65	10.2	9.88	29.0	38.4	16.8
MAX	28.0	24.5	28.5	39.9	19.7	21.3	42.9	41.2	27.6	75.0	53.4	40.1
(WY)	1995	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1990 - 2000	
ANNUAL TOTAL	3726.31		2872.91			
ANNUAL MEAN	10.2		7.85		13.3	
HIGHEST ANNUAL MEAN					21.6	1994
LOWEST ANNUAL MEAN					7.01	1998
HIGHEST DAILY MEAN	522	Aug 3	292	Aug 18	961	Jul 14 1990
LOWEST DAILY MEAN	.07	Jan 15	.10	Jan 7	.00	Oct 1 1989
ANNUAL SEVEN-DAY MINIMUM	.08	Jan 12	.17	Jan 4	.00	Oct 5 1989
INSTANTANEOUS PEAK FLOW			3560	Aug 12	11000	Aug 14 1980
INSTANTANEOUS PEAK STAGE			5.00	Aug 12	10.40	Aug 14 1980
ANNUAL RUNOFF (AC-FT)	7390		5700		9620	
10 PERCENT EXCEEDS	17		7.1		24	
50 PERCENT EXCEEDS	.47		.89		.07	
90 PERCENT EXCEEDS	.11		.27		.00	

e Estimated

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1982-83, 1991 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	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)
FEB 22...	0927	--	--	450	6.7	196	6.0	--	--	--	--	--
FEB 22-22	0931	1201	550	--	6.9	166	6.0	43	15.0	1.43	4.7	.7

DATE	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)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	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 TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 22-22	10.0	96	10.2	10.9	5.7	1.41	.787	.065	.422	1.24	82	210

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ANTI-MONY UNFLTRD TOT REC EPA-CON TRACT (UG/L) (99897)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 22-22	258	119	115	21	<1	<10	E1.0	4	31	<1	<5	<1.0

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	CYANIDE TOTAL (MG/L AS CN) (00720)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)
FEB 22...	--	--	--	--	--	--	<.01	--	--	--	--	--
FEB 22-22	1.1	1.4	9	<1	6	35	--	<1	49	28	<.3	3

DATE	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER UNFLTRD TOT REC EPA-CON-TRACT (UG/L) (99895)	THAL-LIUM, TOTAL (UG/L AS TL) (01059)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (UG/L) (34556)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (UG/L) (82626)
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 22-22	3	11	<2.4	<1	<1	2	2	<10.0	29	289	M	<2

DATE	2,4,6-TRI-CHLORO-PHENOL TOTAL (UG/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (UG/L) (34606)	2,4-DI-CHLORO-PHENOL TOTAL (UG/L) (34601)	2,4,-DI-NITRO-PHENOL TOTAL (UG/L) (34616)	2,4-DI-NITRO-TOLUENE TOTAL (UG/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (UG/L) (34626)	2-CHLORO-NAPH-THALENE TOTAL (UG/L) (34581)	2-CHLORO-PHENOL TOTAL (UG/L) (34586)	2-NITRO-PHENOL TOTAL (UG/L) (34591)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (UG/L) (34631)	4,6-DINITRO -ORTHO-CRESOL TOTAL (UG/L) (34657)	4-BROMO-PHENYL PHENYL ETHER TOTAL (UG/L) (34636)
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 22-22	<3	<3	<3	<1	<3	<2	<2	<2	E1	<2	<3	<2

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	4-CHLORO-PHENYL PHENYL ETHER TOTAL (UG/L) (34641)	4-NITRO-PHENOL TOTAL (UG/L) (34646)	ACE-NAPHTH-ENE TOTAL (UG/L) (34205)	ACE-NAPHTH-YLENE TOTAL (UG/L) (34200)	ALDRIN, TOTAL (UG/L) (39330)	ALPHA BHC TOTAL (UG/L) (39337)	ANTHRA-CENE TOTAL (UG/L) (34220)	AROCLOR 1016 PCB TOTAL (UG/L) (34671)	AROCLOR 1221 PCB TOTAL (UG/L) (39488)	AROCLOR 1232 PCB TOTAL (UG/L) (39492)	AROCLOR 1242 PCB TOTAL (UG/L) (39496)	AROCLOR 1248 PCB TOTAL (UG/L) (39500)
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 22-22	<2	<3	<2	<2	<.040	<.03	M	<.1	<1	<.1	<.1	<.1

DATE	AROCLOR 1254 PCB TOTAL (UG/L) (39504)	AROCLOR 1260 PCB TOTAL (UG/L) (39508)	BENZENE NITRO-WATER UNFLTRD RECOVER (UG/L) (34447)	BENZI-DINE TOTAL (UG/L) (39120)	BENZO-A-PYRENE TOTAL (UG/L) (34247)	BENZO B FLUOR-AN-THENE TOTAL (UG/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (UG/L) (34242)	BENZ(A) ANTHRA-CENE WATER UNFLTRD REC (UG/L) (34526)	BENZO-[GHI]-PERY-LENE TOTAL (UG/L) (34521)	BETA BENZENE HEXA-CHLOR-IDE TOTAL (UG/L) (39338)	BIS(2-CHLORO-ETHOXY) METHANE TOTAL (UG/L) (34278)	BIS(2-CHLORO-ETHYL) ETHER UNFLTRD RECOVER (UG/L) (34273)
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 22-22	<.1	<.1	<2	<40	E1	E1	E1	E1	E1	<.03	<3	<2

DATE	BIS(2-CHLORO-ISO-PROPYL) ETHER TOTAL (UG/L) (34283)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (UG/L) (39100)	CHLOR-DANE CIS WATER WHOLE TOTAL (UG/L) (39062)	CHLOR-DANE, TECH-NICAL TOTAL (UG/L) (39350)	CHLOR-DANE TRANS WATER WHOLE TOTAL (UG/L) (39065)	CHRY-SENE TOTAL (UG/L) (34320)	CYCLOPE NTADIEN HEXA-CHLORO-UNFLTRD RECOVER (UG/L) (34386)	DELTA BENZENE HEXA-CHLOR-IDE TOTAL (UG/L) (34259)	DI-ELDRIN TOTAL (UG/L) (39380)	DIETHYL PHTHAL-ATE TOTAL (UG/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (UG/L) (34341)	DI-N-BUTYL PHTHAL-ATE TOTAL (UG/L) (39110)
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 22-22	<2	E10	<.1	<.1	<.1	E1	<2	<.09	<.020	<2	<2	<3

DATE	DI-N-OCTYL PHTHAL-ATE TOTAL (UG/L) (34596)	ENDO-SULFAN-I WATER WHOLE REC (UG/L) (34361)	ENDO-SULFAN II TOTAL (UG/L) (34356)	ENDO-SULFAN SULFATE TOTAL (UG/L) (34351)	ENDRIN ALDE-HYDE TOTAL (UG/L) (34366)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	FLUOR-ANTHENE TOTAL (UG/L) (34376)	FLUOR-ENE TOTAL (UG/L) (34381)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	HEXA-CHLORO-BENZENE TOTAL (UG/L) (39700)	INDENO (1,2,3-CD) PYRENE TOTAL (UG/L) (34403)
FEB 22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 22-22	<5	<.1	<.04	<.6	<.2	<.060	E2	M	<.800	<.030	<2	E2

DATE	ISO-PHORONE TOTAL (UG/L) (34408)	LINDANE TOTAL (UG/L) (39340)	N-BUTYL BENZYL PHTHAL-ATE TOTAL (UG/L) (34292)	N-NITRO-SODI-METHYL-AMINE TOTAL (UG/L) (34438)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (UG/L) (34428)	N-NITRO-SODI-PHENYL-AMINE TOTAL (UG/L) (34433)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)	P,P' DDD, TOTAL (UG/L) (39310)	P,P' DDE, TOTAL (UG/L) (39320)	P,P' DDT, TOTAL (UG/L) (39300)	PARA-CHLORO-META CRESOL TOTAL (UG/L) (34452)	PENTA-CHLORO-PHENOL TOTAL (UG/L) (39032)
FEB 22...	--	--	--	--	--	--	7	--	--	--	--	--
FEB 22-22	<2	<.030	<4	<3	<2	<3	--	<.1	<.04	<.1	<3	E2

DATE	PHENAN-THRENE TOTAL (UG/L) (34461)	PHENOL (C6H-5OH) TOTAL (UG/L) (34694)	PHENOLS TOTAL (UG/L) (32730)	PYRENE TOTAL (UG/L) (34469)	TOX-APHENE, TOTAL (UG/L) (39400)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,1-DI CHLORO-PRO-PENE, WAT, WH TOTAL (UG/L) (77168)	123-TRI CHLORO-PROPANE WATER WHOLE TOTAL (UG/L) (77443)
FEB 22...	--	--	8	--	--	E.5	<.40	<.40	<.40	<.40	<.40	<.4
FEB 22-22	E1	<3	--	E2	<2	--	--	--	--	--	--	--

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	1,2-DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	2,2-DI CHLORO-PRO-PANE WAT, WH TOTAL (UG/L) (77170)	ACRYLO-NITRILE TOTAL (UG/L) (34215)	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)
FEB 22...	<.40	<.4	<.40	<.40	<.40	<5	<.4	<.4	<.40	<.40	<.40	<.40
FEB 22-22	--	--	--	--	--	--	--	<2.2	--	--	<1.85	<1.91

DATE	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE SEC BUTYL-WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)	BENZENE TOTAL (UG/L) (34030)	BROMO-BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)
FEB 22...	<.40	<.4	<.40	<.40	<.40	<.40	<.40	<.40	<.40	<.40	<.40	<.4
FEB 22-22	--	--	--	<1.99	--	--	--	--	--	--	--	--

DATE	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2 -DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	DIBROMO CHLORO-PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	DI-BROMO-METHANE WATER WHOLE RECOVER (UG/L) (30217)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) (77562)	ETHANE, 1,1,2,2 TETRA-CHLORO-WAT UNF REC (UG/L) (34516)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (UG/L) (34396)
FEB 22...	<.4	<.40	<.40	<.40	<2.0	<.40	<.40	<.4	<.40	<.40	--
FEB 22-22	--	--	--	--	--	--	--	--	--	--	<2.0

DATE	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	METHANE BROMO CHLORO-WAT UNFLTRD REC (UG/L) (77297)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	NAPHTH-ALENE TOTAL (UG/L) (34696)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)
FEB 22...	<.40	<.40	<.4	<.40	<.4	<.4	<.4	<.4	<.4	<.40	<.40
FEB 22-22	--	--	<2.6	--	--	--	--	--	E.2	--	--

DATE	1,3-DI-CHLORO-PROPANE WAT. WH TOTAL (UG/L) (77173)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	TOLUENE TOTAL (UG/L) (34010)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	CYANIDE UNFLTRD TOT REC EPA-CON-TRACT (MG/L) (99896)
FEB 22...	<.4	<.40	<.4	<.40	.36	<.40	<.40	<.40	<.4	--	--
FEB 22-22	--	--	--	--	--	--	--	--	--	<1	<10

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, 10 ft^3/s, at 1955 hours, July 17, 1999, gage height, 1.20 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, 74 ft^3/s, at 2145 hours, Aug. 19, gage height, 1.17 ft; no flow most of time.

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	.00	.00	---	---	---	---	.00	.00	.00	.01	.00	.00
2	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
3	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
4	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
5	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
6	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
7	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
9	.00	.00	---	---	---	---	.00	.00	.08	.00	.00	.00
10	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
11	.00	.00	---	---	---	---	.00	.00	.00	.02	.00	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
13	.00	.00	---	---	---	---	.00	.00	.00	.01	.00	.00
14	.00	.00	---	---	---	---	.00	.00	.00	.05	.00	.00
15	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
16	.09	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
17	.01	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	.00	.00	.00	.00	.02	.28	.00
19	.00	---	---	---	---	.00	.00	.00	.02	.00	.33	.00
20	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
21	.00	---	---	---	---	.12	.00	.00	.00	.00	.10	.00
22	.00	---	---	---	---	.22	.00	.00	.00	.00	.00	.00
23	.00	---	---	---	---	.12	.00	.00	.00	.00	.00	.00
24	.00	---	---	---	---	.00	.00	.00	.00	.00	.00	.00
25	.00	---	---	---	---	.00	.00	.00	.00	.05	.00	.00
26	.00	---	---	---	---	.00	.00	.00	.00	.01	.00	.00
27	.00	---	---	---	---	.00	.00	.00	.00	.01	.00	.00
28	.00	---	---	---	---	.04	.00	.00	.05	.00	.00	.00
29	.00	---	---	---	---	.00	.00	.00	.02	.00	.02	.00
30	.00	---	---	---	---	.00	.00	.00	.01	.00	.00	.00
31	.00	---	---	---	---	.03	---	.00	---	.00	.00	---
TOTAL	0.10	---	---	---	---	---	0.00	0.00	0.18	0.18	0.73	0.00
MEAN	.003	---	---	---	---	---	.000	.000	.006	.006	.024	.000
MAX	.09	---	---	---	---	---	.00	.00	.08	.05	.33	.00
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.2	---	---	---	---	---	.00	.00	.4	.4	1.4	.00

08329928 RIO GRANDE NEAR ALAMEDA, NM

LOCATION.--Lat 35°10'54", long 106°39'20", Bernalillo County, Hydrologic Unit 13020203, on downstream side of Paseo del Norte bridge in Albuquerque, and at mile 1548.0.

DRAINAGE AREA.--17,263 mi^2, approximately, including 2,940 mi^2 in closed basin in San Luis Valley, CO.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: March 1999 to September 2000 (discontinued).

REMARKS.--Water temperatures are collected hourly by two temperature data loggers deployed in the flow at the site and daily means calculated from the composite readings. River stage data is being recorded by the gage.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum daily mean, 25.6°C, July 28-29, 2000; minimum daily mean, 1.7°C, Jan. 4, 2000.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum daily mean, 25.6°C, July 28-29; minimum daily mean, 1.7°C, Jan. 4.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.6	11.7	7.7	5.2	5.9	7.8	9.3	15.4	22.1	24.2	24.5	23.0
2	19.3	11.6	7.4	4.1	6.1	6.9	9.2	17.5	22.2	24.3	24.4	22.5
3	19.0	10.8	6.2	3.3	6.4	8.1	11.7	18.4	20.7	24.6	24.7	22.4
4	18.8	11.0	6.1	1.7	6.7	9.2	13.1	18.8	20.4	24.2	24.9	23.4
5	18.5	11.2	6.2	2.5	6.1	9.4	14.4	19.0	20.9	24.0	25.1	23.9
6	18.5	11.3	5.7	2.9	6.5	7.7	14.6	18.4	21.6	24.7	25.1	22.5
7	16.6	11.3	5.0	2.4	7.5	7.5	14.4	17.6	22.4	24.5	24.1	23.3
8	15.6	11.3	4.2	2.7	6.6	6.8	13.9	17.6	21.4	24.4	24.3	23.0
9	16.6	12.4	4.6	3.0	7.4	8.2	13.4	17.5	21.3	24.0	24.7	21.6
10	16.8	11.1	5.1	2.8	7.8	8.9	14.6	19.1	21.5	24.3	24.5	21.6
11	16.8	10.8	5.6	4.1	7.1	8.4	13.6	18.1	21.7	24.4	24.8	21.9
12	16.5	10.9	5.3	4.8	5.7	9.1	12.3	16.0	21.8	24.9	25.3	21.3
13	16.2	10.7	4.6	5.3	5.4	9.7	14.8	15.9	21.6	24.4	25.4	22.0
14	18.6	10.3	3.7	4.9	8.0	10.1	15.2	17.5	21.6	24.0	25.2	22.1
15	16.1	10.3	2.1	4.6	8.7	10.5	13.6	18.6	21.8	24.5	25.6	22.2
16	14.6	10.1	3.1	5.0	7.6	10.3	13.2	18.0	21.7	24.7	25.1	22.4
17	11.8	9.7	4.2	5.7	7.6	10.0	14.7	15.1	22.0	24.5	24.8	22.8
18	9.7	10.3	4.7	6.5	7.5	9.3	14.6	16.8	21.9	25.0	23.0	22.2
19	12.5	9.4	4.8	6.4	7.7	8.4	14.1	18.2	22.5	24.2	22.4	19.1
20	12.8	8.7	4.0	6.4	7.3	9.4	13.3	18.3	21.1	24.3	23.6	20.4
21	12.8	9.0	3.5	6.0	8.1	8.5	14.8	19.3	21.9	24.5	24.9	20.1
22	13.1	8.3	2.8	6.0	8.2	6.8	14.2	19.8	23.0	23.8	24.9	19.8
23	13.2	6.6	3.0	5.3	7.8	8.2	13.9	20.0	23.0	24.6	24.2	19.9
24	13.1	7.5	3.2	4.9	8.0	10.8	15.6	20.4	23.3	24.1	24.5	17.5
25	13.0	6.4	3.8	6.7	6.4	12.2	16.1	20.7	23.5	23.6	24.7	16.5
26	13.1	7.0	3.5	8.0	5.3	12.9	16.8	19.2	23.2	24.8	24.3	17.2
27	13.2	7.9	4.4	7.9	6.9	13.0	17.5	20.0	23.0	24.4	24.5	18.1
28	12.6	8.1	4.1	6.3	7.5	12.8	17.7	20.9	23.1	25.1	25.0	19.0
29	13.0	8.3	4.6	4.4	6.6	12.0	17.4	20.9	22.0	25.1	23.0	19.6
30	10.5	7.7	4.6	4.0	---	12.3	15.9	21.4	22.3	23.5	22.5	19.2
31	10.7	---	3.9	5.1	---	11.2	---	21.9	---	24.0	22.6	---
MEAN	14.9	9.7	4.6	4.8	7.0	9.6	14.3	18.6	22.0	24.4	24.4	21.0
MAX	19.6	12.4	7.7	8.0	8.7	13.0	17.7	21.9	23.5	25.1	25.6	23.9
MIN	9.7	6.4	2.1	1.7	5.3	6.8	9.2	15.1	20.4	23.5	22.4	16.5

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 5,330 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.--Maximum discharge, 4.3 ft^3/s, at 2015 hours, Aug. 18; gage height, 2.05 ft; no flow most of time.

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	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
2	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
3	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
4	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
5	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
6	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
7	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
9	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
10	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
11	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
13	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
14	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
15	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	.00	.00	.00	.00	.00	.14	.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	0.14	0.00
MEAN	.000	---	---	---	---	---	.000	.000	.000	.000	.005	.000
MAX	.00	---	---	---	---	---	.00	.00	.00	.00	.14	.00
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	.00	.00	.00	.3	.00
(+)	.00	.00	.00	.09	.18	1.75	.02	.00	1.57	.48	1.11	.02

(+) Total rainfall accumulation in inches.

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 5,220 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 5, 1986 at site 0.2 mi downstream at different datum.

REMARKS.--Records fair. Recording rain gage at station. The basin is undeveloped semidesert terrain, part of which, is above the escarpment west of Albuquerque. See tabulation below for monthly precipitation in inches.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 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, 8.9 ft^3/s, Aug. 18, at 1942 hours, gage height, 2.61 ft; no flow most of time.

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	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
2	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
3	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
4	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
5	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
6	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
7	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
8	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
9	.00	.00	---	---	---	---	.00	.00	.04	.00	.00	.00
10	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
11	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
12	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
13	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
14	.00	.00	---	---	---	---	.00	.00	.00	.00	.00	.00
15	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.00
18	.00	---	---	---	---	.00	.00	.00	.00	.00	.07	.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	0.04	0.00	0.07	0.00
MEAN	.000	---	---	---	---	---	.000	.000	.001	.000	.002	.000
MAX	.00	---	---	---	---	---	.00	.00	.04	.00	.07	.00
MIN	.00	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	.00	---	---	---	---	---	.00	.00	.08	.00	.1	.00
(+)	.69	.00	.15	.15	.20	2.65	.07	.03	1.53	.30	1.54	.22

(+) Total rainfall accumulation in inches

08330000 RIO GRANDE AT ALBUQUERQUE, NM

LOCATION.--Lat 35°05'21", long 106°40'48", Bernalillo County, Hydrologic Unit 13020203, in Atrisco Grant, on downstream side of Central Ave. Bridge in Albuquerque, and at mile 1,540.0.

DRAINAGE AREA.--17,440 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	664	888	842	738	886	731	914	799	933	1030	895	720
2	655	915	909	728	859	684	849	769	941	948	879	693
3	650	881	947	717	797	756	779	785	1500	909	839	664
4	644	887	938	725	768	759	676	861	1270	912	859	725
5	646	920	937	734	790	804	615	872	1160	902	844	723
6	656	941	949	700	800	844	700	920	1130	876	871	674
7	655	947	827	661	798	863	678	914	1150	828	897	704
8	671	939	764	674	849	769	725	934	1180	792	922	741
9	671	864	749	695	894	717	772	902	1200	831	870	774
10	657	793	774	697	903	689	796	911	1100	829	823	754
11	666	751	788	707	850	717	784	940	1060	795	791	743
12	655	726	787	706	783	705	807	919	1080	835	789	754
13	627	726	790	701	769	682	844	908	1120	864	950	732
14	613	731	739	706	758	622	847	968	1130	899	743	699
15	606	731	714	695	825	605	831	1070	1080	900	701	678
16	586	781	734	708	837	665	829	968	1070	883	671	681
17	727	873	693	699	802	780	910	894	1020	897	654	690
18	705	895	712	696	811	878	892	939	997	810	828	715
19	783	777	748	717	802	934	953	912	1030	851	1140	758
20	804	776	746	618	783	970	961	863	1040	812	1180	765
21	778	941	736	636	779	989	866	841	980	793	870	736
22	741	927	728	681	807	1130	898	824	941	776	830	756
23	712	915	718	714	761	1300	860	849	935	776	816	801
24	678	912	715	753	744	1130	835	829	933	804	796	820
25	664	779	706	774	733	960	794	831	932	801	814	779
26	613	826	698	786	723	820	778	885	925	907	783	706
27	590	808	697	785	726	800	763	891	924	899	711	686
28	556	771	693	792	710	825	804	910	1030	959	750	662
29	529	765	722	802	634	813	773	935	1430	942	846	640
30	502	655	733	838	---	809	772	928	1310	947	805	643
31	578	---	729	879	---	858	---	916	---	938	759	---
TOTAL	20282	25041	23962	22462	22981	25608	24305	27687	32531	26945	25926	21616
MEAN	654	835	773	725	792	826	810	893	1084	869	836	721
MAX	804	947	949	879	903	1300	961	1070	1500	1030	1180	820
MIN	502	655	693	618	634	605	615	769	924	776	654	640
AC-FT	40230	49670	47530	44550	45580	50790	48210	54920	64530	53450	51420	42880
(+)	18640	1070	796	872	1740	9000	16710	19100	19440	17800	16290	14770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2000, BY WATER YEAR (WY)

MEAN	490	975	1037	959	1072	1300	2060	3245	2942	1547	838	622
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1974 - 2000	
ANNUAL TOTAL	486118 (+) 136700		299346 (+) 136200			
ANNUAL MEAN	1332		818		[a]1424	
HIGHEST ANNUAL MEAN					2486	1987
LOWEST ANNUAL MEAN					356	1977
HIGHEST DAILY MEAN	4550	Jun 1	1500	Jun 3	8650	Apr 24 1985
LOWEST DAILY MEAN	502	Oct 30	502	Oct 30	.00	May 30 1977
ANNUAL SEVEN-DAY MINIMUM	552	Apr 17	576	Oct 25	.00	May 30 1977
INSTANTANEOUS PEAK FLOW			2040	Aug 20	[b]25000	Apr 24 1942
INSTANTANEOUS PEAK STAGE			3.92	Aug 20	7.82	Aug 10 1967
INSTANTANEOUS LOW FLOW			443	Mar 15	147	Jul 6 1996
ANNUAL RUNOFF (AC-FT)	964200		593800		1032000	
10 PERCENT EXCEEDS	2980		955		3590	
50 PERCENT EXCEEDS	922		796		872	
90 PERCENT EXCEEDS	647		671		314	

a Average discharge for 33 years (water years 1942-74), 1,440 ft^3/s, 1,043,000 acre-ft, 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, 7,810 mg/L, Aug. 20; minimum daily mean, 87 mg/L, Mar. 14.
SEDIMENT LOAD: Maximum daily, 22,400 tons, June 30; minimum daily, 147 tons, Mar. 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV											
23...	1201	976	642	121	12.8	7.7	367	10.5	5.5	130	26
JAN											
11...	1115	708	639	104	12.0	8.2	374	14.0	2.0	99	25
FEB											
11...	0929	879	638	114	12.5	8.1	367	10.5	4.0	152	13
MAR											
10...	1133	701	640	121	11.5	7.9	360	12.0	9.9	184	20
APR											
07...	1030	708	639	101	8.9	7.9	518	17.5	13.0	106	53
MAY											
05...	0958	863	639	109	9.0	7.9	490	22.0	16.0	135	56
JUN											
21...	0919	1020	639	93	7.2	7.9	374	25.0	19.0	500	14
JUL											
21...	0945	802	642	105	7.9	7.8	346	23.5	20.5	171	75
AUG											
22...	1007	863	644	98	7.4	7.9	343	23.0	20.5	769	34
SEP											
20...	1140	765	640	106	8.3	7.8	352	22.0	18.5	118	62

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	STREAM VELOC-ITY, MEAN (F/S) (00055)	TEMPER-ATURE WATER (DEG C) (00010)	STREAM DEPTH, MEAN (FT) (00064)	STREAM WIDTH (FT) (00004)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT								
20...	1445	807	2.13	12.0	2.3	257	533	1160
NOV								
30...	0945	471	1.63	9.0	1.3	258	44	56
JAN								
14...	1015	680	1.95	3.5	1.5	263	125	230
FEB								
11...	1130	801	1.92	4.0	1.7	264	100	216
MAR								
10...	1225	678	1.84	9.9	1.5	262	60	110
APR								
07...	1123	688	1.85	12.9	1.5	265	85	158
MAY								
05...	1013	870	2.08	16.0	1.6	268	250	587
17...	0932	919	2.05	12.0	1.8	269	743	1840
JUN								
16...	0847	1080	2.17	17.3	2.0	270	170	496
JUL								
07...	1040	849	2.05	--	1.7	267	174	399
AUG								
09...	0803	887	2.00	21.0	1.8	269	648	1550
SEP								
07...	1015	611	1.61	23.5	1.5	268	130	214

08330000 RIO GRANDE AT ALBUQUERQUE, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	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)
OCT								
20...	13	21	34	92	100	--	--	--
NOV								
30...	--	--	--	--	--	50	100	--
JAN								
14...	57	69	85	100	--	--	--	--
FEB								
11...	25	48	70	100	--	--	--	--
MAR								
10...	48	48	67	90	100	--	--	--
APR								
07...	46	50	77	100	--	--	--	--
MAY								
05...	23	24	35	75	100	--	--	--
17...	6	9	18	71	92	--	--	100
JUN								
16...	45	61	80	100	--	--	--	--
JUL								
07...	76	78	90	100	--	--	--	--
AUG								
09...	25	28	54	98	100	--	--	--
SEP								
07...	74	76	86	100	--	--	--	--

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	STREAM VELOC-ITY, MEAN (F/S) (00055)	TEMPER-ATURE WATER (DEG C) (00010)	STREAM DEPTH, MEAN (FT) (00064)	STREAM WIDTH (FT) (00004)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM (80165)
OCT								
20...	1445	807	2.13	12.0	2.3	257	1	3
NOV								
30...	0945	471	1.63	9.0	1.3	258	--	0
JAN								
14...	1015	680	1.95	3.5	1.5	263	--	0
FEB								
11...	1130	801	1.92	4.0	1.7	264	--	0
MAR								
10...	1225	678	1.84	9.9	1.5	262	--	0
APR								
07...	1123	688	1.85	12.9	1.5	265	1	1
MAY								
05...	1013	870	2.08	16.0	1.6	268	--	0
17...	0932	919	2.05	12.0	1.8	269	--	0
JUN								
16...	0847	1080	2.17	17.3	2.0	270	--	0
JUL								
07...	1040	849	2.05	--	1.7	267	--	0
AUG								
09...	0803	887	2.00	21.0	1.8	269	0	1
SEP								
07...	1015	611	1.61	23.5	1.5	268	--	0

08330000 RIO GRANDE AT ALBUQUERQUE, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	BED MAT. SIEVE DIAM. % FINER THAN .250 MM (80166)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM (80167)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM (80173)
OCT								
20...	13	56	87	95	98	100	--	--
NOV								
30...	5	52	84	93	96	98	100	--
JAN								
14...	6	53	83	89	91	91	91	100
FEB								
11...	5	56	90	97	99	100	--	--
MAR								
10...	7	56	91	98	99	100	--	--
APR								
07...	8	54	90	99	100	--	--	--
MAY								
05...	9	61	91	97	99	100	--	--
17...	7	58	91	97	99	100	--	--
JUN								
16...	8	58	87	95	98	100	--	--
JUL								
07...	10	58	91	97	98	99	100	--
AUG								
09...	9	60	90	97	99	100	--	--
SEP								
07...	5	42	81	91	95	97	100	--

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	221	396	290	696	117	267	117	233	178	426	126	249
2	200	354	300	738	128	316	114	224	134	310	105	196
3	200	352	200	476	154	394	109	211	152	326	105	214
4	171	298	207	498	152	385	263	529	153	318	107	219
5	181	316	202	503	170	429	658	1300	160	342	90	194
6	162	288	247	630	151	386	317	605	140	303	92	210
7	168	298	189	484	196	435	298	532	172	371	116	272
8	139	252	163	412	136	282	268	487	156	357	124	258
9	172	311	140	327	164	332	195	365	160	386	105	203
10	160	285	107	230	156	325	180	337	147	360	161	298
11	181	326	123	248	126	268	144	274	185	421	106	206
12	189	334	103	203	183	390	164	312	185	391	106	201
13	164	277	150	295	203	432	160	304	194	403	94	173
14	190	315	152	299	174	346	181	345	176	360	87	147
15	149	243	157	310	237	456	185	348	181	404	96	156
16	155	245	176	373	238	471	172	329	170	384	102	183
17	220	433	210	497	164	306	158	297	149	322	128	271
18	198	377	188	455	171	327	148	279	151	330	186	442
19	208	441	187	403	224	452	204	398	161	349	179	452
20	212	461	199	424	182	366	143	240	164	347	153	401
21	214	449	183	466	245	487	221	380	150	316	149	406
22	184	369	159	399	420	826	283	525	158	346	206	634
23	202	386	169	417	257	497	307	592	154	317	255	911
24	206	378	157	386	170	327	257	524	144	289	210	643
25	196	351	299	610	129	245	241	504	163	322	135	357
26	220	363	131	292	108	204	228	483	143	279	115	255
27	218	348	135	294	140	264	232	491	158	309	107	232
28	173	260	118	245	156	292	236	506	145	278	129	288
29	198	284	107	221	107	208	295	641	166	290	142	312
30	148	200	105	187	144	284	298	675	---	---	120	263
31	164	267	---	---	192	377	201	477	---	---	130	301
TOTAL	---	10257	---	12018	---	11376	---	13747	---	9956	---	9547

08330000 RIO GRANDE AT ALBUQUERQUE, NM--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	142	352	137	296	141	356	1580	4400	166	401	272	528
2	115	263	143	296	184	468	730	1870	170	405	230	430
3	103	217	159	337	680	2800	377	925	176	399	212	380
4	103	187	190	441	2060	7040	289	713	251	587	195	383
5	120	198	156	368	812	2550	273	666	258	591	210	408
6	142	268	141	350	441	1350	239	566	214	503	262	478
7	193	352	140	346	454	1420	251	560	145	350	466	892
8	277	543	136	345	359	1140	235	501	359	904	488	968
9	290	605	149	362	363	1180	380	853	1110	2550	294	617
10	334	717	187	462	271	805	256	572	973	2160	280	567
11	303	643	162	412	249	713	294	631	356	763	183	367
12	252	548	125	312	246	721	277	624	228	487	209	426
13	374	853	101	248	300	910	245	571	526	1600	204	401
14	189	429	126	331	243	738	242	586	598	1210	242	457
15	137	308	202	587	198	575	321	780	412	787	300	549
16	180	405	145	379	162	468	311	744	194	352	256	471
17	186	459	129	311	166	461	314	760	149	264	158	293
18	163	391	134	340	143	386	342	751	210	467	132	255
19	184	473	130	322	151	422	396	918	407	1370	227	467
20	185	480	117	274	137	384	384	839	7810	20800	144	297
21	210	492	95	215	130	343	518	1100	6370	14800	155	308
22	226	549	105	234	156	398	449	936	893	2020	177	362
23	169	392	494	1110	195	495	240	502	415	914	197	426
24	142	319	509	1160	171	431	210	456	254	546	233	516
25	149	320	144	323	144	363	220	476	293	644	251	525
26	145	305	136	325	179	449	239	588	232	490	150	286
27	167	342	154	372	155	386	206	500	202	389	153	282
28	208	450	168	414	219	651	226	585	295	600	249	445
29	393	805	134	338	1880	8130	158	402	2480	5710	287	496
30	252	524	145	364	6020	22400	168	430	2640	5780	273	477
31	---	---	147	365	---	---	176	444	600	1240	---	---
TOTAL	---	13189	---	12339	---	58933	---	25249	---	70083	---	13757
YEAR		260451										

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 current year (seasonal record).

GAGE.--Water-stage recorder, crest stage gage and concrete-lined channel. Elevation of gage is 5,760 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharages, 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,250 ft^3/s, July 9, 1988, gage height, 7.62 ft, from floodmarks, from step-backwater analysis of channel; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 132 ft^3/s, at 1705 hours, July 8, gage height, 2.12 ft; no flow most of time.

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	.10	.09	---	---	---	---	.02	.10	.07	.59	.17	.19
2	.11	.10	---	---	---	---	.01	.07	1.9	.19	.19	.12
3	.17	.11	---	---	---	---	.04	.09	.14	.21	.19	.23
4	.13	.04	---	---	---	---	.05	.04	.06	.17	.20	.21
5	.18	.05	---	---	---	---	.05	.02	.05	.12	.25	.13
6	.14	.03	---	---	---	---	.03	.05	.16	.08	.24	.28
7	.25	.02	---	---	---	---	.00	.08	.13	.22	.68	.05
8	.23	.05	---	---	---	---	.11	.02	.04	2.5	.97	.17
9	.25	.04	---	---	---	---	.14	.04	.13	.29	.30	.12
10	.13	.04	---	---	---	---	.24	.12	.06	.11	.16	.15
11	.14	.03	---	---	---	---	.27	.10	.09	1.6	.22	.12
12	.20	.05	---	---	---	---	.00	.06	.08	.29	.53	.08
13	.18	.03	---	---	---	---	.03	.02	.04	.24	.32	.17
14	.09	.03	---	---	---	---	.01	.08	.15	.85	.36	.10
15	.23	e.03	---	---	---	---	.01	.11	.08	.26	.23	.10
16	1.8	---	---	---	---	---	.00	.10	.03	1.4	.28	.14
17	.24	---	---	---	---	e.02	.00	.11	.06	.20	.21	.16
18	.08	---	---	---	---	.04	.02	.08	.08	.14	5.8	.43
19	.09	---	---	---	---	.01	.04	.14	.07	.12	.54	.11
20	.08	---	---	---	---	.00	.03	.11	.02	.16	.70	.11
21	.12	---	---	---	---	2.9	.03	.17	.04	.88	.51	.38
22	.14	---	---	---	---	4.7	.01	.21	.22	.17	.36	.19
23	.16	---	---	---	---	2.5	.00	.37	.10	.10	.09	.14
24	.15	---	---	---	---	.19	.07	.26	.04	.14	.06	.18
25	.28	---	---	---	---	.04	.11	.48	.05	1.4	.12	.03
26	.22	---	---	---	---	.00	.11	.16	.04	.26	.18	.03
27	.23	---	---	---	---	.00	.11	.02	.03	.12	.16	.09
28	.23	---	---	---	---	1.1	.11	.03	.46	.33	.15	.02
29	.36	---	---	---	---	.17	.09	.03	.14	2.0	1.9	.09
30	.04	---	---	---	---	.04	.08	.02	.39	1.4	.44	.18
31	.10	---	---	---	---	.17	---	.02	---	.33	.23	---
TOTAL	6.85	---	---	---	---	---	1.82	3.31	4.95	16.87	16.74	4.50
MEAN	.22	---	---	---	---	---	.061	.11	.16	.54	.54	.15
MAX	1.8	---	---	---	---	---	.27	.48	1.9	2.5	5.8	.43
MIN	.04	---	---	---	---	---	.00	.02	.02	.08	.06	.02
AC-FT	14	---	---	---	---	---	3.6	6.6	9.8	33	33	8.9

e Estimated

08330600 TIJERAS ARROYO NEAR ALBUQUERQUE, NM

LOCATION.--Lat 35°00'10", long 106°38'53", in SW$^1/_4$SW$^1/_4$ 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 5,000 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Mar. 10, 1988, at site 1,700 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair.

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	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	1.2	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	e10	.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	.08	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.4	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	.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	4.8	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.5	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.08	.00	.00	.00	1.1	.00	.12
22	.00	.00	.00	.00	.00	.68	.00	.00	.00	.00	.00	.65
23	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	11.20	1.24	8.83	0.77
MEAN	.000	.000	.000	.000	.000	.029	.000	.000	.37	.040	.28	.026
MAX	.00	.00	.00	.00	.00	.68	.00	.00	10	1.1	4.8	.65
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	1.8	.00	.00	22	2.5	18	1.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	.15	.000	.000	.000	.000	.018	.032	.000	.21	.14	2.32	.026
MAX	.29	.000	.000	.000	.000	.029	.065	.000	.37	.25	4.35	.026
(WY)	1999	1999	1999	1999	1999	2000	1999	1999	2000	1999	1999	1999
MIN	.000	.000	.000	.000	.000	.007	.000	.000	.044	.040	.28	.026
(WY)	2000	1999	1999	1999	1999	1999	2000	1999	1999	2000	2000	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000		
ANNUAL TOTAL	146.70		22.93				
ANNUAL MEAN	.40		.063		.24		
HIGHEST ANNUAL MEAN					.43		1999
LOWEST ANNUAL MEAN					.063		2000
HIGHEST DAILY MEAN	47	Aug 3	10	Jun 3	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 1	.00	Oct 1	1998
INSTANTANEOUS PEAK FLOW			297	Jun 3	[a]2930	Jul 9	1988
INSTANTANEOUS PEAK STAGE			4.23	Jun 3	[b]9.60	Jul 9	1988
ANNUAL RUNOFF (AC-FT)	291		45		177		
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.

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.

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	.08	.00	.00	.00	1.0	.00	1.0	.00	.00	7.2	.00	.00
2	.01	.00	.00	.00	.37	.00	.05	.00	.00	.67	.00	.00
3	.00	.00	.00	.00	.01	.00	.00	.00	2.2	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.05	.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	1.8	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.31	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.3	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.2	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.7	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.15	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.9	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.2	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.46	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	3.7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.42	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.1	.00
19	.02	.00	.00	1.3	.00	.00	.00	.00	.00	.00	4.0	.00
20	.00	.00	.00	.20	.00	.00	.00	.00	.00	.00	1.6	.00
21	.00	.00	.00	.00	.00	3.5	.00	.00	.00	.00	.03	.00
22	.00	.00	.00	.00	1.8	7.9	.00	.00	.00	2.8	.57	1.2
23	.00	.00	.00	.00	.13	6.6	.00	.00	.00	.82	1.4	1.6
24	.00	.00	.00	.00	.00	.13	.00	.00	.00	.00	.01	.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	.95	.00	.00	.05	.00	.00	.00
30	.00	.00	.00	.00	---	.03	.00	.00	.10	.00	.00	.00
31	.00	---	.00	.00	---	.04	---	.00	---	.00	.00	---
TOTAL	4.23	0.00	0.00	1.50	3.31	21.26	1.05	0.00	2.40	15.05	14.06	2.80
MEAN	.14	.000	.000	.048	.11	.69	.035	.000	.080	.49	.45	.093
MAX	3.7	.00	.00	1.3	1.8	7.9	1.0	.00	2.2	7.2	4.0	1.6
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	8.4	.00	.00	3.0	6.6	42	2.1	.00	4.8	30	28	5.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

MEAN	.93	.94	.073	.054	.084	.26	.12	.31	.61	.92	1.76	1.01
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000	
ANNUAL TOTAL	122.83		65.66			
ANNUAL MEAN	.34		.18		.59	
HIGHEST ANNUAL MEAN					.94	1995
LOWEST ANNUAL MEAN					.18	2000
HIGHEST DAILY MEAN	23	Aug 3	7.9	Mar 22	133	Aug 15 1994
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 3	.00	Oct 1 1993
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 3	.00	Oct 9 1993
INSTANTANEOUS PEAK FLOW			37	Mar 22	[a]1960	Jul 14 1990
INSTANTANEOUS PEAK STAGE			1.84	Mar 22	[b]6.30	Jul 14 1990
ANNUAL RUNOFF (AC-FT)	244		130		429	
10 PERCENT EXCEEDS	.28		.09		.04	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

a From rating curve extended above 30 ft^3/s, on basis of step-back water analysis.
b From floodmarks.

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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV												
23...	0945	E976	644	96	10.1	7.7	399	6.5	6.0	--	--	--
JAN												
11...	0930	E736	641	109	12.1	8.2	418	7.5	3.5	--	--	--
FEB												
23...	1345	E708	648	--	--	7.8	396	16.6	11.5	--	--	--
MAR												
27...	1015	E832	639	88	7.7	7.8	418	17.3	13.2	--	--	--
30...	1000	E787	638	102	9.2	8.3	457	14.0	12.0	130	14	40.3
APR												
28...	1046	E758	640	84	6.8	7.9	490	19.2	17.0	--	--	--
MAY												
16...	0845	E1160	638	89	7.1	8.2	447	18.5	17.5	140	18	42.2
23...	0839	E935	639	79	6.3	7.8	445	19.0	17.5	--	--	--
JUN												
14...	0830	E1140	641	97	7.5	8.3	425	22.0	19.0	140	27	42.7
23...	0916	E919	640	92	6.8	7.8	425	24.5	21.5	--	--	--
JUL												
27...	0815	E817	648	79	5.7	7.8	403	22.0	23.0	--	--	--
AUG												
09...	1130	E842	644	93	6.5	7.6	398	32.0	24.5	130	27	40.7
23...	1013	E832	647	91	6.8	7.8	401	24.0	21.5	--	--	--

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
NOV												
23...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
11...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
27...	--	--	--	--	--	--	--	--	--	--	--	--
30...	7.31	5.1	2	40.4	126	117	143	0	21.9	.6	25.0	67.3
APR												
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	7.86	4.4	1	34.6	133	120	146	0	16.3	.5	21.5	71.5
23...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	7.85	4.3	1	30.7	121	111	136	0	11.8	.5	19.7	73.0
23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
27...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
09...	6.79	4.2	1	27.3	110	103	125	0	15.5	.4	20.0	60.2
23...	--	--	--	--	--	--	--	--	--	--	--	--

08331000 RIO GRANDE AT ISLETA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	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)	PHOSPHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
NOV												
23...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
11...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
27...	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.20	.38	.04	--	.030	--	1.30	<.010	.300	.330	.370	--
APR												
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	.33	1.9	.12	27	.010	6	.800	.010	.270	.270	.760	710
23...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
14...	.22	.49	.04	--	.010	--	.590	<.010	.110	.110	.150	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
27...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
09...	.29	.56	.18	--	.100	--	.450	<.010	.050	.050	.120	--
23...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	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)
NOV											
23...	--	--	--	--	--	--	--	--	--	--	--
JAN											
11...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
27...	--	--	--	--	--	--	--	--	--	--	--
30...	285	K55	160	2	<1	3.8	73	<1	104	<1.0	<.8
APR											
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
16...	275	66	110	<2	<1	3.3	76	<1	83	<1.0	<.8
23...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	261	400	260	3	<1	2.1	71	<1	72	<1.0	<.8
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	239	200	92	4	<1	3.1	66	<1	64	<1.0	E.4
23...	--	--	--	--	--	--	--	--	--	--	--

08331000 RIO GRANDE AT ISLETA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	CYANIDE TOTAL (MG/L AS CN) (00720)	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)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
NOV											
23...	--	--	--	--	--	--	--	--	--	--	--
JAN											
11...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
27...	--	--	--	--	--	--	--	--	--	--	--
30...	<1	2	.01	E10	<1	6	<.3	5	<1	<2.4	<3
APR											
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
16...	<1	1	<.01	<10	<1	37	<.3	5	1	<2.4	<3
23...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	<1	1	<.01	<10	<1	1	<.3	4	<1	<2.4	<3
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	<1	3	<.01	<10	<1	6	<.3	4	2	<2.4	<3
23...	--	--	--	--	--	--	--	--	--	--	--

DATE	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)
NOV											
23...	--	--	--	--	--	--	--	--	--	--	--
JAN											
11...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
27...	--	--	--	--	--	--	--	--	--	--	--
30...	<1	2	--	--	--	--	--	--	--	--	--
APR											
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
16...	<1	<2	1	.1	11	3.6	110	24000	13	740	.01
23...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	<1	2	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	<1	9	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--

08331000 RIO GRANDE AT ISLETA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN) (01093)	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)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)
NOV											
23...	--	--	--	--	--	--	--	--	--	--	--
JAN											
11...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
27...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
APR											
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
16...	190	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
23...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--

DATE	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)	ETHOPROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DISSOLVED (UG/L) (39341)
NOV											
23...	--	--	--	--	--	--	--	--	--	--	--
JAN											
11...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
27...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
APR											
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
16...	<.004	<.002	<.002	.015	<.001	<.017	<.002	<.004	<.003	<.003	<.004
23...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--

08331000 RIO GRANDE AT ISLETA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)
NOV											
23...	--	--	--	--	--	--	--	--	--	--	--
JAN											
11...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
27...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
APR											
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
16...	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004	<.004
23...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--

DATE	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
NOV											
23...	--	--	--	--	--	--	--	--	--	--	--
JAN											
11...	--	--	--	--	--	--	--	--	--	--	--
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
27...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
APR											
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
16...	<.004	<.005	<.002	E.007	<.003	<.007	<.004	<.013	<.005	<.010	<.007
23...	--	--	--	--	--	--	--	--	--	--	--
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--

08331000 RIO GRANDE AT ISLETA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L) (09511)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV											
23...	--	--	--	--	--	--	--	--	--	117	48
JAN											
11...	--	--	--	--	--	--	--	--	--	184	26
FEB											
23...	--	--	--	--	--	--	--	--	--	196	95
MAR											
27...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	3	145	28
APR											
28...	--	--	--	--	--	--	--	--	--	147	73
MAY											
16...	<.013	E.015	<.002	<.001	<.002	--	--	--	3	--	--
23...	--	--	--	--	--	--	--	--	--	169	78
JUN											
14...	--	--	--	--	--	.09	.03	.06	2	169	97
23...	--	--	--	--	--	--	--	--	--	105	91
JUL											
27...	--	--	--	--	--	--	--	--	--	215	85
AUG											
09...	--	--	--	--	--	--	--	--	2	123	95
23...	--	--	--	--	--	--	--	--	--	300	95

08331118 AMOLE DEL NORTE CHANNEL AT ALBUQUERQUE, NM

LOCATION.--Lat 35°02'15", 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 south west Albuquerque.

DRAINAGE AREA.--6.302mi^2.

PERIOD OF RECORD.--April 2000 to September 2000.

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 107 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, 107 ft^3/s, at 1720 hours, June 28, gage height, 3.27 ft; no flow most of time.

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	---	---	---	---	---	---	---	.00	.00	6.3	.00	.00
2	---	---	---	---	---	---	---	.00	.04	.00	.00	.00
3	---	---	---	---	---	---	---	.00	.05	.00	.00	.00
4	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
5	---	---	---	---	---	---	---	1.7	.00	.00	.00	.00
6	---	---	---	---	---	---	---	2.8	.00	.00	.00	.00
7	---	---	---	---	---	---	---	2.3	.00	.00	.00	.00
8	---	---	---	---	---	---	---	3.3	.00	.00	.00	.00
9	---	---	---	---	---	---	---	1.6	.00	.00	1.3	.00
10	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
11	---	---	---	---	---	---	---	.00	.00	1.6	.00	.00
12	---	---	---	---	---	---	---	.00	.00	4.8	.00	.00
13	---	---	---	---	---	---	---	.00	.00	.06	.00	.00
14	---	---	---	---	---	---	---	.00	.00	5.7	.00	.00
15	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
16	---	---	---	---	---	---	---	.00	.00	2.1	.00	.00
17	---	---	---	---	---	---	---	.00	.00	5.2	.00	.00
18	---	---	---	---	---	---	---	.00	.00	.00	2.6	.00
19	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
20	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
21	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
22	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
23	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
24	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
25	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
26	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
27	---	---	---	---	---	---	.00	.00	.00	.12	.00	.00
28	---	---	---	---	---	---	.00	.00	5.9	.00	.00	.00
29	---	---	---	---	---	---	.00	.00	4.3	.00	.00	.00
30	---	---	---	---	---	---	.00	.00	.09	.00	.00	.00
31	---	---	---	---	---	---	---	.00	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	11.70	10.38	25.88	3.90	0.00
MEAN	---	---	---	---	---	---	---	.38	.35	.83	.13	.000
MAX	---	---	---	---	---	---	---	3.3	5.9	6.3	2.6	.00
MIN	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	---	23	21	51	7.7	.00

08331660 ABO ARROYO NEAR BLUE SPRINGS, NM

LOCATION.--Lat 34°26'47", long 106°29'46", in NE$^1/_4$SE$^1/_4$NW$^1/_4$ sec. 35, T.3N., R 4 E., Socorro County, Hydrologic Unit 13020203, 2.5 mi northeast to U.S. Highway 60 at Blue Springs and 20 mi east of Bernardo, NM.

DRAINAGE AREA.--242 mi^2.

PERIOD OF RECORD.--August 1996 to September 2000 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 5,520 ft above National Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.23	.29	.37	.38	.33	.44	.13	.00	2.2	.00	.00
2	.09	.22	.33	e.36	.38	.36	.49	.10	57	.00	.00	.00
3	.10	.26	.32	e.39	e.34	.33	.42	.09	.42	.00	.00	.00
4	.09	.26	.37	.40	.29	.33	.35	.08	.03	.00	.00	.00
5	.10	.26	e.36	.42	.34	.33	.28	.08	.05	.00	.00	.00
6	.09	.26	e.37	e.44	.33	.27	.28	.08	.05	.00	.00	.00
7	.10	.25	.30	e.45	.26	.26	.25	.08	.03	.00	.00	.00
8	.10	.26	e.35	.49	e.21	.24	.19	.11	.00	.00	.00	196
9	.10	.24	.34	.49	.18	.23	.22	.09	.00	.00	.00	2.7
10	.10	.22	.36	.46	.19	.23	.22	.08	.00	.00	.00	.00
11	.10	.22	.36	.41	.19	.22	.23	.08	.00	.00	.00	.00
12	.10	.22	.37	.40	.19	.21	.30	.09	.00	.00	.00	.00
13	.10	.23	.38	e.40	.20	.23	.27	.08	.00	.00	.00	.00
14	.10	.22	e.36	e.39	.21	.27	.24	.08	.00	7.9	.00	.00
15	.10	.23	.38	.38	.23	.27	.22	.08	.00	.00	.00	.00
16	.10	.23	.42	.38	.21	.28	.21	.07	.00	.00	.00	.00
17	.14	.23	.37	.38	.23	.37	.21	.09	.00	.00	.00	.00
18	.17	.26	e.36	.38	.23	.40	.20	.09	.00	.00	1.8	.00
19	.15	.24	.35	.41	.21	.38	.20	.06	.00	.63	.08	.00
20	.17	.29	.30	.38	.22	.37	.20	.08	.00	.00	.00	.00
21	.21	.32	e.31	.35	.24	.73	.17	.08	.00	.00	.00	.00
22	.21	.33	e.33	.36	.31	.82	.18	.05	.00	.00	.00	.00
23	.22	.32	e.34	.35	.30	.67	.16	.03	.00	.00	.00	.00
24	.22	.32	e.37	e.36	.28	.43	.16	.02	.00	.00	.00	.00
25	.22	.34	.30	.38	.33	.39	.17	.03	.00	.00	.00	.00
26	.22	.34	.29	.41	e.34	.38	.18	.05	.00	.00	.00	.00
27	.23	.31	.30	.43	e.32	.37	.16	.03	.00	.00	.00	.00
28	.22	.30	e.31	.34	.31	.47	.14	.00	.00	.00	.00	.00
29	.25	.30	.30	.34	.35	.50	.16	.00	.00	.00	.00	.00
30	.24	.29	.30	e.34	---	.44	.14	.00	.23	.00	.00	.00
31	.24	---	e.34	.35	---	.36	---	.00	---	.00	.00	---
TOTAL	4.68	8.00	10.53	12.19	7.80	11.47	7.04	2.01	57.81	10.73	1.88	198.70
MEAN	.15	.27	.34	.39	.27	.37	.23	.065	1.93	.35	.061	6.62
MAX	.25	.34	.42	.49	.38	.82	.49	.13	57	7.9	1.8	196
MIN	.09	.22	.29	.34	.18	.21	.14	.00	.00	.00	.00	.00
AC-FT	9.3	16	21	24	15	23	14	4.0	115	21	3.7	394

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	2.36	.58	.60	.58	.55	.90	.58	.46	11.8	23.1	15.5	22.2
MAX	4.98	.89	.90	.81	.88	2.20	1.13	1.07	44.6	57.7	29.0	71.6
(WY)	1997	1999	1998	1998	1998	1998	1998	1998	1997	1997	1999	1997
MIN	.15	.27	.34	.39	.27	.37	.23	.065	.30	.35	.061	.14
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	1999	2000	2000	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	1301.61		332.84			
ANNUAL MEAN	3.57		.91		6.45	
HIGHEST ANNUAL MEAN					17.1	1997
LOWEST ANNUAL MEAN					.91	2000
HIGHEST DAILY MEAN	450	Aug 4	196	Sep 8	1330	Jun 7 1997
LOWEST DAILY MEAN	.00	Jul 2	.00	May 28	.00	Jul 2 1999
ANNUAL SEVEN-DAY MINIMUM	.04	Jun 28	.00	Jun 8	.00	Jun 8 2000
INSTANTANEOUS PEAK FLOW			3500	Sep 8	13100	Jul 31 1997
INSTANTANEOUS PEAK STAGE			3.31	Sep 8	6.30	Jul 31 1997
INSTANTANEOUS LOW FLOW			.00	May 23	.00	Jul 2 1999
ANNUAL RUNOFF (AC-FT)	2580		660		4670	
10 PERCENT EXCEEDS	.70		.38		1.1	
50 PERCENT EXCEEDS	.32		.20		.41	
90 PERCENT EXCEEDS	.10		.00		.08	

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 good except for estimated daily discharges, 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	41	e9.6	9.5	10	10	48	34	44	63	63	59
2	51	22	e9.7	9.6	10	9.9	44	34	39	67	57	59
3	55	20	e9.9	9.4	10	9.9	44	50	41	64	63	53
4	58	16	e9.8	9.3	10	10	47	42	48	60	59	53
5	59	e16	e9.7	9.3	10	10	51	41	53	58	57	51
6	52	e15	e9.9	9.2	10	10	54	40	51	42	62	50
7	52	e15	e10	9.4	10	12	49	42	52	44	59	42
8	52	e14	e10	9.3	10	21	47	50	53	44	56	44
9	54	e13	e11	9.3	10	20	42	37	55	44	60	46
10	54	e13	e11	9.5	10	19	38	39	57	53	51	43
11	58	e12	e12	9.7	10	18	38	35	56	44	63	41
12	57	e12	e12	9.7	10	20	49	47	57	50	62	41
13	57	e11	e13	9.7	10	27	52	52	55	43	61	43
14	60	e10	e12	9.7	10	34	47	52	55	53	60	44
15	61	e10	e12	9.7	10	35	44	50	48	64	53	45
16	65	e10	e11	9.7	10	41	45	49	51	63	50	45
17	58	e9.8	e10	9.7	10	37	46	47	58	64	49	43
18	62	e9.9	e9.8	9.7	10	35	46	45	59	67	59	36
19	56	e9.7	e9.7	9.7	10	35	37	51	61	64	63	38
20	55	e9.9	e9.6	9.7	10	37	36	50	58	60	60	46
21	53	e9.8	e9.7	9.8	10	37	33	59	62	60	61	57
22	53	e9.7	9.6	10	10	38	32	56	60	59	51	60
23	52	e9.6	9.3	10	10	35	31	42	58	52	57	51
24	58	e9.6	9.4	10	10	35	32	42	47	50	56	64
25	54	e9.7	9.6	10	10	34	33	29	58	54	56	64
26	51	e9.7	9.7	10	10	35	34	34	58	54	49	70
27	55	e9.8	9.7	10	10	34	35	39	56	52	45	70
28	56	e9.9	9.7	10	10	42	33	40	61	56	59	53
29	56	e9.9	9.7	10	10	50	34	48	58	52	53	61
30	55	e9.8	9.6	10	---	48	33	40	63	59	55	61
31	53	---	9.5	10	---	48	---	44	---	61	54	---
TOTAL	1727	386.8	317.2	300.6	290	886.8	1234	1360	1632	1720	1763	1533
MEAN	55.7	12.9	10.2	9.70	10.0	28.6	41.1	43.9	54.4	55.5	56.9	51.1
MAX	65	41	13	10	10	50	54	59	63	67	63	70
MIN	51	9.6	9.3	9.2	10	9.9	31	29	39	42	45	36
AC-FT	3430	767	629	596	575	1760	2450	2700	3240	3410	3500	3040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

MEAN	82.3	284	254	233	232	194	200	201	173	94.2	84.2	65.9
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	10302.4		13150.4			
ANNUAL MEAN	28.2		35.9		174	
HIGHEST ANNUAL MEAN					1017	1973
LOWEST ANNUAL MEAN					2.25	1977
HIGHEST DAILY MEAN	76	Sep 25	70	Sep 26	2050	Aug 2 1973
LOWEST DAILY MEAN	7.3	Apr 2	9.2	Jan 6	.00	Oct 1 1963
ANNUAL SEVEN-DAY MINIMUM	7.6	Mar 31	9.3	Jan 3	.00	Oct 1 1963
INSTANTANEOUS PEAK FLOW					2220	Aug 22 1958
ANNUAL RUNOFF (AC-FT)	20430		26080		126300	
10 PERCENT EXCEEDS	56		60		767	
50 PERCENT EXCEEDS	17		42		7.9	
90 PERCENT EXCEEDS	8.9		9.7		.67	

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 estimated daily discharges, 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. 27 years (water years 1974-2000), 789 ft^3/s, 573,000 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 most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,280 ft^3/s, Mar. 24; minimum daily, 159 ft^3/s, July 26.

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	529	689	763	761	1030	716	625	315	280	1110	297	304
2	445	e1000	899	748	1030	680	835	319	212	733	237	255
3	440	e1100	1050	740	929	612	654	284	315	509	241	238
4	423	1050	1150	735	898	533	561	281	605	413	233	261
5	419	1060	1160	748	879	508	473	268	753	369	207	218
6	424	1090	1100	792	868	498	357	285	512	310	233	220
7	435	1090	1100	772	866	510	311	317	432	254	246	173
8	455	1100	1010	710	859	532	327	365	409	251	264	185
9	456	1110	869	723	877	476	294	468	449	236	243	218
10	452	1090	815	787	975	484	459	311	432	218	239	198
11	456	989	e800	822	984	472	421	266	485	280	303	292
12	438	908	e807	819	969	351	291	351	531	254	334	234
13	442	838	e840	795	889	326	365	378	523	346	324	217
14	433	e770	e830	808	875	333	360	380	492	359	439	239
15	394	e760	806	804	876	269	311	413	461	326	318	228
16	381	e762	747	813	921	221	346	449	434	389	211	216
17	439	785	745	860	982	211	423	489	398	359	164	206
18	554	893	722	858	938	320	445	381	421	318	201	179
19	648	956	681	865	933	430	517	389	477	e280	309	190
20	677	836	734	876	928	602	453	407	477	e260	837	196
21	680	842	733	910	927	750	587	365	488	e250	e1030	198
22	653	1000	709	898	931	1100	553	341	498	238	595	194
23	568	1070	711	897	963	1210	669	300	419	202	e355	231
24	e414	1090	720	929	960	1280	615	277	384	182	e360	255
25	e433	1090	733	955	913	1110	469	362	347	163	e335	297
26	e355	899	724	980	898	1020	389	331	359	150	339	326
27	e349	933	720	986	901	764	386	285	387	168	300	259
28	404	939	724	1010	914	563	370	300	443	283	245	238
29	414	885	724	1010	888	545	356	329	468	259	169	202
30	405	885	736	1010	---	527	349	292	743	302	222	194
31	418	---	751	1010	---	487	---	269	---	312	307	---
TOTAL	14433	28509	25613	26431	26801	18440	13571	10567	13634	10083	10137	6861
MEAN	466	950	826	853	924	595	452	341	454	325	327	229
MAX	680	1110	1160	1010	1030	1280	835	489	753	1110	1030	326
MIN	349	689	681	710	859	211	291	266	212	150	164	173
AC-FT	28630	56550	50800	52430	53160	36580	26920	20960	27040	20000	20110	13610
(+)	47760	58630	55660	57040	58400	50150	43620	39710	45930	40030	40730	31840

CAL YR 1999 TOTAL 403961 MEAN 1107 MAX 4520 MIN 53 AC-FT 801300 (+) MEAN 1310 AC-FT 948,400
WTR YR 2000 TOTAL 205080 MEAN 560 MAX 1280 MIN 150 AC-FT 406800 (+) MEAN 789 AC-FT 573,000

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, 1,500 mg/L, Sept. 9; minimum daily mean, 85 mg/L, Sept. 8.
SEDIMENT LOAD: Maximum daily, 4,240 tons, Mar. 23; minimum daily, 38 ton, July 26.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT											
26...	1130	355	645	105	8.7	8.2	434	21.0	16.0	194	--
JAN											
28...	1147	998	642	102	9.9	8.2	249	8.0	9.0	269	59
FEB											
29...	1130	865	643	111	9.9	8.2	446	15.0	12.5	295	80
MAR											
30...	1145	550	639	104	8.1	8.2	474	21.5	18.8	82	53
APR											
10...	1103	460	637	114	8.3	8.4	526	--	22.0	111	35
MAY											
09...	1130	483	643	124	9.0	8.4	534	25.5	22.5	--	--
25...	1150	361	639	118	7.8	8.5	496	31.0	27.0	--	--
JUL											
06...	1210	288	644	108	7.0	8.5	440	29.5	28.5	439	74
26...	1115	139	645	102	7.3	8.8	465	29.0	23.5	40	77
SEP											
21...	1045	215	641	122	9.5	8.6	495	20.0	19.0	73	75

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	STREAM VELOC-ITY, MEAN (F/S) (00055)	TEMPER-ATURE WATER (DEG C) (00010)	STREAM DEPTH, MEAN (FT) (00064)	STREAM WIDTH (FT) (00004)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT									
26...	1130	355	1.42	16.0	1.1	353	--	--	194
JAN									
28...	1147	998	1.96	9.0	2.1	347	--	--	269
FEB									
29...	1130	865	1.62	12.5	3.3	338	--	--	295
MAR									
30...	1145	550	1.72	18.8	1.4	330	--	--	82
APR									
10...	1103	460	1.59	22.0	1.2	317	--	--	111
MAY									
02...	1105	350	1.30	--	1.2	268	--	--	96
24...	1345	276	1.49	--	1.0	280	--	--	86
JUN									
14...	1015	477	1.44	19.5	1.1	371	--	--	180
JUL									
11...	0847	260	1.56	--	.82	270	--	--	223
26...	1115	139	1.16	23.5	.88	151	--	--	40
AUG									
25...	1045	354	1.49	23.5	1.1	328	93	100	502
SEP									
13...	1053	206	1.26	17.5	.98	225	--	--	99

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	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)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)
OCT								
26...	186	26	41	70	100	--	--	--
JAN								
28...	725	52	64	83	100	--	59	--
FEB								
29...	689	29	41	69	100	--	80	--
MAR								
30...	122	68	78	94	100	--	53	--
APR								
10...	138	54	59	79	91	100	35	--
MAY								
02...	91	55	64	80	100	--	--	--
24...	64	--	--	--	--	--	59	100
JUN								
14...	232	80	81	94	100	--	--	--
JUL								
11...	157	45	46	51	92	100	--	--
26...	15	--	--	--	--	--	77	100
AUG								
25...	480	83	83	83	83	83	--	--
SEP								
13...	55	--	--	--	--	--	85	100

DATE	TIME	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	STREAM VELOCITY, MEAN (F/S) (00055)	TEMPERATURE WATER (DEG C) (00010)	STREAM DEPTH, MEAN (FT) (00064)	STREAM WIDTH (FT) (00004)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM (80165)
OCT								
26...	1130	355	1.42	16.0	1.1	353	0	1
JAN								
28...	1147	998	1.96	9.0	2.1	347	--	0
FEB								
29...	1130	865	1.62	18.5	3.3	338	1	5
MAR								
30...	1145	550	1.72	18.8	1.4	330	0	1
APR								
10...	1103	460	1.59	--	1.2	317	0	1
MAY								
02...	1105	350	1.30	--	1.2	268	0	1
24...	1345	276	1.49	--	1.0	280	0	1
JUN								
14...	1015	477	1.44	19.5	1.1	371	1	6
JUL								
11...	0847	260	1.56	--	.82	270	1	3
26...	1115	139	1.16	23.5	.88	151	0	2
AUG								
25...	1045	354	1.49	23.5	1.1	328	0	3
SEP								
13...	1053	206	1.26	17.5	.98	225	1	4

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	BED MAT. SIEVE DIAM. % FINER THAN .250 MM (80166)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM (80167)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)
OCT							
26...	27	87	97	98	98	98	100
JAN							
28...	14	72	98	100	--	--	--
FEB							
29...	22	82	99	100	--	--	--
MAR							
30...	33	89	99	100	--	--	--
APR							
10...	27	90	98	99	100	--	--
MAY							
02...	30	82	96	99	100	--	--
24...	21	81	97	100	--	--	--
JUN							
14...	44	87	98	100	--	--	--
JUL							
11...	36	91	99	100	--	--	--
26...	43	87	98	100	--	--	--
AUG							
25...	42	91	99	100	--	--	--
SEP							
13...	32	88	99	100	--	--	--

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	250	359	296	574	280	586	163	336	233	650	335	670
2	184	222	799	e2200	279	684	163	329	241	671	326	602
3	182	216	1040	e3090	334	950	173	346	190	476	384	639
4	192	219	698	1980	420	1310	203	403	188	455	322	465
5	203	230	662	1900	444	1380	235	476	178	422	192	264
6	214	245	710	2090	409	1210	207	446	191	448	216	290
7	196	230	878	2600	345	1020	160	333	233	545	267	370
8	224	276	1070	3180	245	671	142	272	265	615	443	636
9	212	261	974	2930	210	492	161	314	190	449	497	643
10	190	232	753	2210	200	440	157	333	172	453	424	558
11	187	230	643	1720	203	e438	156	347	213	566	443	572
12	187	221	572	1400	253	e553	168	372	182	476	280	269
13	156	186	697	1570	305	e692	196	419	174	418	235	212
14	149	174	521	e1090	332	e744	180	392	199	469	218	196
15	132	140	616	e1260	217	474	183	397	157	372	220	160
16	132	136	616	e1270	178	358	156	343	248	631	189	114
17	141	166	538	1140	168	338	159	370	450	1200	145	84
18	157	237	423	1020	146	283	149	346	387	980	208	184
19	188	329	504	1300	178	329	183	426	330	831	285	336
20	324	594	370	856	232	460	238	563	434	1090	442	725
21	246	454	330	769	192	380	300	738	419	1050	452	921
22	298	527	357	978	189	361	203	493	215	541	664	1980
23	222	342	378	1100	167	320	235	570	333	864	1290	4240
24	178	e199	400	1180	210	408	231	580	194	506	1180	4120
25	181	e212	381	1120	146	290	215	553	155	382	736	2200
26	154	e139	302	744	172	335	221	585	220	534	344	952
27	265	e249	351	885	190	369	217	577	314	762	323	665
28	304	332	350	886	272	531	249	677	240	593	274	422
29	244	273	337	805	324	633	241	656	335	801	224	330
30	221	242	356	850	220	437	223	608	---	---	168	246
31	230	259	---	---	175	354	250	683	---	---	109	144
TOTAL	---	8131	---	44697	---	17830	---	14283	---	18250	---	24209

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, NM--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	155	268	120	103	94	71	501	1530	205	166	494	408
2	308	692	183	163	117	68	616	1200	154	100	377	260
3	338	603	156	121	237	205	722	990	147	96	315	203
4	223	349	146	111	422	761	858	954	176	111	228	162
5	152	196	173	125	498	1020	724	728	138	77	184	111
6	139	135	157	120	405	560	466	401	191	122	173	104
7	118	100	184	157	628	730	260	179	135	90	132	64
8	104	92	233	231	398	441	239	162	167	119	85	43
9	107	86	304	387	327	398	187	120	140	93	1500	984
10	138	171	155	130	262	306	189	112	143	95	750	381
11	144	162	197	142	315	412	716	573	248	204	382	305
12	167	131	161	152	298	427	542	372	299	270	152	96
13	182	180	150	154	239	339	507	478	287	251	102	60
14	162	160	155	163	283	375	460	448	420	531	170	110
15	135	115	153	174	304	379	291	256	314	276	130	81
16	166	156	144	176	281	333	548	583	193	112	121	71
17	191	220	143	189	230	249	411	400	114	51	121	68
18	178	214	122	126	364	415	334	290	160	92	106	52
19	199	280	120	126	380	488	265	e201	247	216	120	64
20	150	185	133	146	323	416	212	e149	931	2140	127	68
21	193	306	143	140	300	395	248	e169	1460	e4140	147	80
22	183	275	186	171	278	376	259	167	519	911	107	57
23	236	429	145	117	198	224	197	108	329	e316	144	90
24	203	343	252	188	174	181	162	80	342	e332	173	120
25	168	216	306	300	166	155	178	80	336	e306	188	151
26	138	147	242	221	156	151	91	38	305	282	195	172
27	167	174	168	131	160	167	95	45	266	216	165	115
28	150	149	155	126	161	193	173	134	241	160	142	92
29	147	142	140	126	199	253	170	119	214	98	132	72
30	135	128	101	80	330	690	199	163	368	224	137	72
31	---	---	123	89	---	---	179	152	351	292	---	---
TOTAL	---	6804	---	4885	---	11178	---	11381	---	12489	---	4716
YEAR		178853										

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 good. This drain is 1 of 4 channels (stations 08331990, 08332010, and 08332030) carrying flow in valley cross section. For combined monthly flow in acre-ft of this drain, conveyance channel, floodway, and Lower San Juan Riverside drain, see tabulation below daily table for station 08332010. Several observations of water temperature were made during the year. Prior to 1952, drain was subject to overflow from floodway.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	37	11	14	23	42	106	80	112	148	144	141
2	115	12	3.2	2.7	16	54	101	93	111	150	127	142
3	113	13	5.6	11	5.2	56	93	127	112	145	142	133
4	87	17	19	18	15	62	105	104	130	137	135	120
5	91	21	19	18	26	62	120	110	141	144	135	119
6	65	26	18	13	26	55	119	115	139	117	138	132
7	64	24	10	2.4	26	62	123	130	134	114	131	117
8	79	23	2.9	2.3	25	49	114	138	133	110	130	134
9	90	14	2.9	5.4	18	47	99	102	141	112	147	123
10	77	6.0	2.9	17	11	42	82	106	147	120	139	130
11	80	22	7.5	15	30	42	79	109	145	105	150	128
12	82	17	16	15	31	46	98	135	137	120	164	119
13	80	16	15	9.3	31	65	109	148	133	106	169	131
14	73	16	17	2.3	32	80	120	154	138	117	171	125
15	75	9.6	9.8	2.2	22	64	109	123	130	154	159	126
16	102	5.0	4.6	6.4	13	73	114	124	129	157	128	133
17	110	5.0	18	15	35	94	106	126	133	148	143	135
18	117	4.8	18	15	35	89	106	117	134	141	152	117
19	149	9.3	17	15	36	98	105	124	142	135	164	122
20	141	17	17	11	37	98	96	121	130	151	163	134
21	128	18	17	11	34	103	80	139	141	145	132	136
22	97	18	10	19	33	88	78	144	142	157	120	148
23	77	19	3.8	17	33	80	83	111	138	142	144	129
24	85	19	17	17	35	77	76	111	121	119	138	131
25	69	20	12	13	34	73	85	82	139	125	140	123
26	65	20	4.9	12	37	72	85	85	124	137	121	130
27	71	19	16	21	38	74	87	99	118	138	115	138
28	74	12	15	21	39	98	83	103	139	144	142	119
29	69	5.3	15	22	40	117	89	128	117	130	144	118
30	66	18	15	14	---	110	82	106	138	141	137	120
31	75	---	15	6.1	---	114	---	110	---	137	144	---
TOTAL	2784	483.0	375.1	383.1	816.2	2286	2932	3604	3968	4146	4408	3853
MEAN	89.8	16.1	12.1	12.4	28.1	73.7	97.7	116	132	134	142	128
MAX	149	37	19	22	40	117	123	154	147	157	171	148
MIN	64	4.8	2.9	2.2	5.2	42	76	80	111	105	115	117
AC-FT	5520	958	744	760	1620	4530	5820	7150	7870	8220	8740	7640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2000, BY WATER YEAR (WY)

MEAN	76.8	30.4	26.9	25.6	25.9	48.9	60.2	65.1	60.1	62.7	72.0	76.0
MAX	168	87.9	74.2	87.7	74.5	96.9	118	137	134	146	146	164
(WY)	1996	1987	1987	1990	1990	1985	1969	1996	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1954 - 2000	
ANNUAL TOTAL	23860.1		30038.4			
ANNUAL MEAN	65.4		82.1		53.6	
HIGHEST ANNUAL MEAN					92.1	1992
LOWEST ANNUAL MEAN					4.29	1955
HIGHEST DAILY MEAN	149	Oct 19	171	Aug 14	208	May 5 1983
LOWEST DAILY MEAN	2.9	Dec 8	2.2	Jan 15	.00	Jul 31 1954
ANNUAL SEVEN-DAY MINIMUM	8.2	Dec 7	8.2	Dec 7	.00	Jul 31 1954
INSTANTANEOUS PEAK FLOW					208	May 5 1983
ANNUAL RUNOFF (AC-FT)	47330		59580		38800	
10 PERCENT EXCEEDS	116		142		116	
50 PERCENT EXCEEDS	72		95		41	
90 PERCENT EXCEEDS	15		12		6.0	

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 estimated daily discharges, 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.00	e.00	e.00	e1.8	.21	157	38	.00	e.00	e.00	e.00
2	.00	e.00	e.00	e.00	e1.7	.21	38	32	.00	e.00	e.00	e.00
3	.00	e.00	e.00	e.00	e1.7	.20	25	28	.00	e.00	e.00	e.00
4	.00	e.00	e.00	e.00	e1.7	.21	15	29	.00	e.00	e.00	e.00
5	.00	e.00	e.00	e.00	e1.6	.23	9.4	26	.00	e.00	e.00	e.00
6	.00	e.00	e.00	e.00	e1.6	.21	7.2	23	.00	e.00	e.00	.00
7	.00	e.00	e.00	e.00	2.0	.54	7.0	21	.00	e.00	e.00	.00
8	.00	e.00	e.00	e.00	1.4	1.1	7.2	16	.00	e.00	e.00	.00
9	.00	e.00	.21	e.00	.99	3.3	7.2	18	.00	e.00	e.00	.00
10	.00	e.00	.24	.00	1.2	4.6	6.0	16	.00	e.00	e.00	.00
11	.00	e.00	.21	.00	1.1	4.2	5.1	11	.00	e.00	e.00	.00
12	.00	e.00	.13	.00	.87	3.3	8.6	6.6	.00	e.00	e.33	.00
13	.00	e.00	.11	.00	.69	2.7	7.1	6.7	.00	e.00	e.00	.00
14	.00	e.00	.03	.00	.76	1.6	6.2	6.5	.00	e.00	e.00	.00
15	.00	e.00	.00	.00	.65	.85	7.7	5.9	.00	e.00	e.00	.00
16	.00	e.00	.00	.00	.92	1.4	11	5.8	.00	2.8	e.00	.00
17	.00	e.00	.02	.06	.90	.99	9.4	4.1	.00	e1.3	e.00	.00
18	.00	e.00	.03	.00	.64	.59	6.8	2.2	.00	e.20	e.00	.00
19	.00	e.00	.00	.04	.47	.44	8.8	2.1	.00	e.00	e.00	.00
20	.00	e.00	.00	.11	.55	.44	13	1.4	.00	e.00	e.00	.00
21	.00	e.00	.00	.21	.45	3.1	14	1.0	.00	e.00	e.00	.25
22	.00	e.00	.00	2.1	.35	14	11	.64	.00	e.00	e.00	.00
23	.00	e.00	.00	1.9	.26	94	20	.41	.00	e.00	e.00	.00
24	.00	e.00	.00	1.7	.36	95	16	.18	.00	e.00	e.00	.00
25	.00	e.00	e.00	e2.0	.29	35	24	.00	e.63	e.00	e.00	.00
26	.00	e.00	e.00	e2.0	.24	14	37	.00	e1.1	e.00	e.00	.00
27	.00	e.00	e.00	e1.9	.24	8.4	47	.00	e1.9	e.00	e.00	.00
28	.00	e.00	e.00	e1.9	.23	7.2	56	.00	1.1	e.00	e.00	.00
29	.00	e.00	e.00	e1.9	.21	18	50	.00	.95	e.00	e.00	.00
30	.00	e.00	e.00	e1.8	---	21	45	.00	.90	e.00	6.0	.00
31	.00	---	e.00	e1.8	---	73	---	.00	---	e.00	e.47	---
TOTAL	0.08	0.00	0.98	19.42	25.87	410.02	682.7	301.53	6.58	4.30	6.80	0.25
MEAN	.003	.000	.032	.63	.89	13.2	22.8	9.73	.22	.14	.22	.008
MAX	.08	.00	.24	2.1	2.0	95	157	38	1.9	2.8	6.0	.25
MIN	.00	.00	.00	.00	.21	.20	5.1	.00	.00	.00	.00	.00
AC-FT	.2	.00	1.9	39	51	813	1350	598	13	8.5	13	.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2000, BY WATER YEAR (WY)

MEAN	7.77	3.00	1.36	2.85	11.8	16.7	19.3	40.1	16.1	17.0	24.7	12.2
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1952 - 2000	
ANNUAL TOTAL	6903.16		1458.53			
ANNUAL MEAN	18.9		3.99		14.4	
HIGHEST ANNUAL MEAN					48.6	1973
LOWEST ANNUAL MEAN					1.11	1974
HIGHEST DAILY MEAN	588	Aug 9	157	Apr 1	2000	Oct 20 1957
LOWEST DAILY MEAN	.00	Jan 2	.00	Oct 2	.00	Oct 1 1951
ANNUAL SEVEN-DAY MINIMUM	.00	Feb 28	.00	Oct 2	.00	Oct 1 1951
INSTANTANEOUS PEAK FLOW			267	Apr 1	[a]6940	Jul 29 1967
INSTANTANEOUS PEAK STAGE			3.37	Apr 1	13.53	Jul 29 1967
ANNUAL RUNOFF (AC-FT)	13690		2890		10460	
10 PERCENT EXCEEDS	46		9.4		39	
50 PERCENT EXCEEDS	.44		.00		.18	
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, 110,000 mg/L, Apr. 1; minimum daily mean, no flow on many days.
SEDIMENT LOADS: Maximum daily, 47,300 tons, Apr. 1; minimum daily, 0 ton on many days.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MEA CON TRA (MG	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 (TONS DAY)	MEAN CONCEN TRATIO (MG/L)	LOAD (TONS DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	104	.04	0	e.00	0	e.00	0	e.00	1100	e5.3	52	.03
2	0	.00	0	e.00	0	e.00	0	e.00	920	e4.2	57	.03
3	0	.00	0	e.00	0	e.00	0	e.00	860	e4.0	47	.03
4	0	.00	0	e.00	0	e.00	0	e.00	930	e4.3	52	.03
5	0	.00	0	e.00	0	e.00	0	e.00	710	e3.1	66	.04
6	0	.00	0	e.00	0	e.00	0	e.00	670	e2.9	59	.03
7	0	.00	0	e.00	0	e.00	0	e.00	1620	8.9	171	.34
8	0	.00	0	e.00	102	e.05	0	e.00	1090	4.4	376	1.2
9	0	.00	0	e.00	87	.05	0	e.00	712	2.3	3550	51
10	0	.00	0	e.00	103	.07	0	.00	351	1.2	7700	99
11	0	.00	0	e.00	122	.07	0	.00	280	.90	6320	81
12	0	.00	0	e.00	88	.04	0	.00	216	.53	12700	119
13	0	.00	0	e.00	87	.03	0	.00	212	.43	11100	84
14	0	.00	0	e.00	84	.01	0	.00	244	.53	3320	15
15	0	.00	0	e.00	0	.00	0	.00	164	.32	1000	3.2
16	0	.00	0	e.00	0	.00	0	.00	287	.77	2130	29
17	0	.00	0	e.00	70	.00	52	.03	294	.74	1180	3.2
18	0	.00	0	e.00	36	.01	0	.00	145	.25	509	.85
19	0	.00	0	e.00	0	.00	29	.01	91	.12	234	.29
20	0	.00	0	e.00	0	.00	51	.03	128	.19	245	.31
21	0	.00	0	e.00	0	.00	102	.06	103	.13	2030	21
22	0	.00	0	e.00	0	.00	1720	15	51	.05	23100	2220
23	0	.00	0	e.00	0	.00	1750	9.6	43	.03	92500	24600
24	0	.00	0	e.00	0	.00	1400	7.0	77	.08	69300	18700
25	0	.00	0	e.00	0	e.00	1300	e7.0	65	.05	44900	4200
26	0	.00	0	e.00	0	e.00	1250	e6.8	60	.04	40100	1490
27	0	.00	0	e.00	0	e.00	1375	e7.1	66	.04	35800	811
28	0	.00	0	e.00	0	e.00	1750	e9.0	53	.03	33400	651
29	0	.00	0	e.00	0	e.00	1600	e8.2	57	.03	62100	3830
30	0	.00	0	e.00	0	e.00	1425	e6.9	---	---	81600	4750
31	0	.00	---	---	0	e.00	1250	e6.1	---	---	84800	20400
TOTAL	---	0.04	---	0.00	---	0.33	---	82.83	---	45.86	---	82160.58

08334000 RIO PUERCO ABOVE ARROYO CHICO, NEAR GUADALUPE, NM--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN TRATIO (MG/L)	LOAD (TONS DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	110000	47300	32300	3280	0	.00	0	e.00	0	e.00	0	e.00
2	76000	7830	29500	2590	0	.00	0	e.00	0	e.00	0	e.00
3	64500	4510	26700	2230	0	.00	0	e.00	0	e.00	0	e.00
4	54600	2410	42000	3450	0	.00	0	e.00	0	e.00	0	e.00
5	54600	1400	28900	2230	0	.00	0	e.00	0	e.00	0	e.00
6	45700	902	24400	1550	0	.00	0	e.00	0	e.00	0	.00
7	54500	1040	17800	992	0	.00	0	e.00	0	e.00	0	.00
8	51500	1030	17900	778	0	.00	0	e.00	0	e.00	0	.00
9	32200	624	20200	990	0	.00	0	e.00	0	e.00	0	.00
10	32000	535	20700	920	0	.00	0	e.00	0	e.00	0	.00
11	35400	507	15400	487	0	.00	0	e.00	0	e.00	0	.00
12	47200	1120	10900	193	0	.00	0	e.00	2250	e42	0	.00
13	41900	807	14700	265	0	.00	0	e.00	0	e.00	0	.00
14	43300	716	16200	284	0	.00	0	e.00	0	e.00	0	.00
15	51600	1090	16300	260	0	.00	0	e.00	0	e.00	0	.00
16	63800	1960	15200	236	0	.00	34600	e535	0	e.00	0	.00
17	56300	1430	4260	57	0	.00	6300	e33	0	e.00	0	.00
18	50400	935	322	2.0	0	.00	278	e1.3	0	e.00	0	.00
19	57900	1410	294	1.7	0	.00	0	e.00	0	e.00	0	.00
20	62800	2330	275	1.1	0	.00	0	e.00	0	e.00	0	.00
21	64000	2480	241	.69	0	.00	0	e.00	0	e.00	9590	41
22	63900	2010	180	.31	0	.00	0	e.00	0	e.00	0	.00
23	65400	3470	141	.18	0	.00	0	e.00	0	e.00	0	.00
24	52800	2350	79	.06	0	.00	0	e.00	0	e.00	0	.00
25	31000	2060	145	.15	3500	e6.0	0	e.00	0	e.00	0	.00
26	32800	3300	125	.10	27000	e80	0	e.00	0	e.00	0	.00
27	45200	5910	0	.00	15200	e50	0	e.00	0	e.00	0	.00
28	44200	6740	0	.00	147	.44	0	e.00	0	e.00	0	.00
29	31300	4340	0	.00	84	.22	0	e.00	0	e.00	0	.00
30	33000	4090	0	.00	64	.16	0	e.00	30700	e798	0	.00
31	---	---	0	.00	---	---	0	e.00	306	e.39	---	---
TOTAL	---	116636	---	20798.29	---	136.82	---	569.30	---	840.39	---	41.00
YEAR		221311.44										

e Estimated

08341300 BLUEWATER CREEK ABOVE BLUEWATER DAM, NEAR BLUEWATER, NM

LOCATION.--Lat 35°16'04", long 108°06'50", SW$^1/_4$SW$^1/_4$, 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 current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,410 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

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	.13	.10	.23	.21	.28	.34	2.2	.16	e.03	e.00	e.00	.00
2	.12	.10	.24	.20	.28	.37	2.4	.14	e.03	e.00	e.00	.00
3	.11	.11	.25	.20	.29	.38	2.1	.14	e.03	e.00	e.00	.00
4	.11	.12	.25	.20	.29	.43	1.5	.14	e.03	e.00	e.00	.00
5	.11	.12	.24	.20	.29	.43	1.3	.15	e.02	e.00	e.00	.00
6	.10	.13	.25	.21	.28	.44	1.1	.14	e.02	e.00	e.00	e.00
7	.09	.13	.26	.21	.28	.53	.84	.13	e.02	e.00	e.00	e.00
8	.09	.13	.28	.21	.29	.57	.68	.14	e.02	e.00	e.00	e.00
9	.09	.13	.27	.21	.30	.74	.60	.13	e.02	e.00	.00	e.00
10	.08	.14	.29	.23	.30	.69	.53	.13	e.02	e.00	.00	e.00
11	.07	.14	.30	.24	.30	.69	.44	.13	e.02	e.00	.00	e.00
12	.07	.14	.29	.24	.29	.63	.42	.13	e.02	e.02	.00	e.00
13	.07	.14	.29	.24	.29	.57	.38	.12	e.01	e.01	.00	e.00
14	.07	.14	.31	.24	.29	.51	.34	.12	e.01	e.01	.00	e.00
15	.07	.14	.26	.25	.29	.51	.32	.11	e.01	e.01	.00	e.00
16	.07	.16	.26	.26	.28	.50	.29	.11	e.01	e.01	.00	e.00
17	.07	.17	.30	.26	.31	.47	.26	.11	e.01	e.00	.00	e.00
18	.08	.17	.29	.25	.30	.46	.19	.09	e.01	e.00	.00	e.00
19	.09	.16	.26	.26	.28	.48	.22	.10	e.01	e.00	.00	e.00
20	.08	.16	.22	.25	.28	.49	.24	.09	e.01	e.00	.00	e.00
21	.08	.19	.21	.25	.29	.63	.23	.08	e.01	e.00	.00	e.00
22	.08	.20	.26	.23	.30	.81	.25	.08	e.00	e.00	.00	e.00
23	.09	.19	.41	.22	.30	.82	.27	.08	e.00	e.00	.00	e.00
24	.09	.18	.35	.22	.32	1.2	.30	.06	e.00	e.00	.00	e.00
25	.09	.20	.28	.25	.33	1.7	.18	.05	e.00	e.00	.00	e.00
26	.09	.21	e.28	e.28	.31	1.4	.19	.05	e.00	e.00	.00	e.00
27	.09	.22	e.27	e.27	.31	1.0	.19	.04	e.00	e.00	.00	e.00
28	.08	.21	.29	.29	.33	.92	.18	.04	e.00	e.00	.00	e.00
29	.09	.22	.28	.27	.35	1.1	.18	.04	e.00	e.00	.00	e.00
30	.10	.22	.26	.27	---	1.2	.18	e.04	e.00	e.00	.00	e.00
31	.11	---	.26	.28	---	1.9	---	e.03	---	e.00	.00	---
TOTAL	2.76	4.77	8.49	7.40	8.63	22.91	18.50	3.10	0.37	0.06	0.00	0.00
MEAN	.089	.16	.27	.24	.30	.74	.62	.10	.012	.002	.000	.000
MAX	.13	.22	.41	.29	.35	1.9	2.4	.16	.03	.02	.00	.00
MIN	.07	.10	.21	.20	.28	.34	.18	.03	.00	.00	.00	.00
AC-FT	5.5	9.5	17	15	17	45	37	6.1	.7	.1	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2000, BY WATER YEAR (WY)

MEAN	.41	1.10	.90	2.29	7.96	56.9	36.5	4.04	.86	.51	1.55	1.04
MAX	1.90	3.52	2.54	17.9	42.1	227	225	14.6	1.78	1.32	11.7	5.42
(WY)	1994	1999	1995	1993	1995	1993	1993	1993	1993	1998	1993	1997
MIN	.089	.055	.050	.091	.30	.55	.43	.10	.012	.002	.000	.000
(WY)	2000	1991	1991	1991	2000	1990	1990	2000	2000	2000	2000	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1989 - 2000	
ANNUAL TOTAL	224.67		76.99			
ANNUAL MEAN	.62		.21		9.52	
HIGHEST ANNUAL MEAN					44.6	1993
LOWEST ANNUAL MEAN					.21	2000
HIGHEST DAILY MEAN	8.2	Jul 29	2.4	Apr 2	845	Mar 25 1998
LOWEST DAILY MEAN	.05	Jul 2	.00	Jun 22	.00	Jun 24 1990
ANNUAL SEVEN-DAY MINIMUM	.07	Oct 11	.00	Jun 22	.00	Aug 3 1990
INSTANTANEOUS PEAK FLOW			2.5	Apr 1	3570	Jul 16 1953
INSTANTANEOUS PEAK STAGE			1.85	Apr 1	8.99	Jul 16 1953
INSTANTANEOUS LOW FLOW			.00	May 30	.00	Apr 24 1990
ANNUAL RUNOFF (AC-FT)	446		153		6900	
10 PERCENT EXCEEDS	1.5		.44		15	
50 PERCENT EXCEEDS	.30		.13		.60	
90 PERCENT EXCEEDS	.09		.00		.08	

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., 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 current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,420 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No flow most of time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	e.00	e.00	.05	1.6	.00	.00	.00	.00	e.00
2	.00	.00	.00	e.00	e.00	.05	1.6	.00	.00	.00	.00	e.00
3	.00	.00	.00	e.00	e.00	.03	1.5	.00	.00	.00	.00	e.00
4	.00	.00	.00	e.00	e.01	.00	.56	.00	.00	.00	.00	e.00
5	.00	.00	.00	e.00	e.01	.06	.10	.00	.00	.00	.00	e.00
6	.00	.00	.00	e.00	e.02	.17	.01	.00	.00	.00	.00	e.00
7	.00	.00	.00	e.00	e.02	.18	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	e.00	e.03	.13	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	e.00	e.03	.10	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	e.00	.00	.01	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	e.00	.01	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	e.00	.01	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	e.00	.02	.10	.00	.00	.00	.00	.00	.00
23	.00	.00	.34	e.00	.04	.06	.00	.00	.00	.00	.00	.00
24	.00	.00	e.00	e.00	.03	.16	.00	.00	.00	.00	.00	.00
25	.00	.00	e.00	e.00	.05	.06	.00	.00	.00	.00	.00	.00
26	.00	.00	e.00	e.00	.03	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	e.00	e.00	.02	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	e.00	e.00	.03	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	e.00	e.00	.03	.00	.00	.00	.00	.00	e.00	.00
30	.00	.00	e.00	e.00	---	.00	.00	.00	.00	.00	e.00	.00
31	.00	---	e.00	e.00	---	.04	---	.00	---	.00	e.00	---
TOTAL	0.00	0.00	0.34	0.00	0.39	1.20	5.37	0.00	0.00	0.00	0.00	0.00
MEAN	.000	.000	.011	.000	.013	.039	.18	.000	.000	.000	.000	.000
MAX	.00	.00	.34	.00	.05	.18	1.6	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.7	.00	.8	2.4	11	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2000, BY WATER YEAR (WY)

MEAN	.085	.65	.19	3.13	5.87	36.6	19.4	2.17	.23	.11	.46	.94
MAX	.83	5.67	1.19	34.2	33.4	143	62.8	8.32	.93	.78	1.51	11.0
(WY)	1999	1999	1993	1993	1993	1993	1991	1995	1995	1998	1999	1997
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1990	1990	1990	1990	1990	1990	1990	1990	1994	1993	1994	1991

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1989 - 2000	
ANNUAL TOTAL	87.35		7.30			
ANNUAL MEAN	.24		.020		5.83	
HIGHEST ANNUAL MEAN					21.6	1993
LOWEST ANNUAL MEAN					.006	1990
HIGHEST DAILY MEAN	27	Aug 2	1.6	Apr 1	470	Mar 6 1995
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Jul 20 1989
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Aug 7 1989
INSTANTANEOUS PEAK FLOW			2.7	Apr 1	[a]813	Mar 6 1995
INSTANTANEOUS PEAK STAGE			2.02	Apr 1	7.64	Mar 6 1995
INSTANTANEOUS LOW FLOW			.00	Oct 1	.00	Oct 1 1999
ANNUAL RUNOFF (AC-FT)	173		14		4220	
10 PERCENT EXCEEDS	.34		.01		8.8	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated
a From rating curve extended above 2,000 ft^3/s.

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 (monthend contents only).

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, 5,040 acre-ft, Oct. 1, elevation, 7,370.11 ft; minimum, 2,800 acre-ft, Sept. 29-30, elevation, 7,363.46 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5040	4290	4160	4090	4040	3950	3950	3770	3500	3280	3120	2960
2	5000	4290	4160	4100	4040	3950	3950	3770	3500	3270	3110	2960
3	4960	4280	4150	4080	4040	3950	3950	3760	3490	3260	3100	2950
4	4910	4280	4150	4090	4030	3950	3950	3760	3480	3250	3100	2940
5	4870	4270	4150	4080	4030	3950	3950	3740	3470	3240	3100	2940
6	4810	4270	4140	4080	4030	3940	3940	3740	3460	3230	3090	2930
7	4760	4260	4140	4080	4030	3950	3930	3720	3460	3230	3080	2920
8	4700	4260	4140	4080	4020	3940	3930	3710	3450	3230	3070	2920
9	4640	4260	4130	4080	4020	3940	3920	3710	3440	3230	3060	2910
10	4590	4250	4130	4070	4020	3940	3920	3700	3430	3230	3050	2900
11	4530	4240	4130	4070	4020	3930	3910	3680	3430	3230	3060	2900
12	4480	4240	4130	4070	4010	3930	3910	3660	3410	3250	3050	2890
13	4420	4240	4130	4070	4010	3930	3900	3650	3400	3250	3050	2880
14	4400	4230	4110	4070	4010	3930	3900	3650	3400	3250	3040	2870
15	4390	4230	4110	4070	4000	3920	3880	3640	3380	3240	3040	2870
16	4380	4220	4110	4060	4000	3920	3880	3620	3380	3240	3030	2860
17	4370	4220	4110	4060	4000	3910	3870	3610	3360	3230	3020	2860
18	4370	4210	4110	4060	3990	3900	3860	3610	3370	3230	3020	2860
19	4360	4210	4100	4060	3990	3900	3850	3600	3360	3220	3020	2860
20	4360	4210	4100	4060	3990	3900	3850	3600	3350	3210	3010	2850
21	4350	4200	4100	4060	3980	3900	3840	3590	3350	3200	3010	2850
22	4350	4200	4100	4060	3980	3930	3830	3580	3340	3200	3000	2840
23	4340	4190	4100	4050	3980	3940	3830	3580	3330	3190	2990	2830
24	4340	4180	4100	4050	3980	3940	3820	3570	3320	3180	2990	2830
25	4330	4180	4100	4050	3970	3940	3820	3560	3310	3170	2990	2820
26	4330	4180	4100	4060	3970	3930	3810	3550	3310	3160	2990	2820
27	4320	4180	4100	4050	3960	3930	3800	3540	3300	3160	2990	2810
28	4320	4170	4100	4050	3960	3940	3790	3540	3300	3150	2990	2810
29	4310	4170	4100	4040	3960	3930	3790	3530	3290	3140	2980	2800
30	4300	4170	4090	4040	---	3940	3780	3520	3280	3130	2980	2800
31	4300	---	4090	4040	---	3950	---	3510	---	3130	2970	---
MAX	5040	4290	4160	4100	4040	3950	3950	3770	3500	3280	3120	2960
MIN	4300	4170	4090	4040	3960	3900	3780	3510	3280	3130	2970	2800
(+)	7368.18	7367.82	7367.61	7367.47	7367.22	7367.21	7366.70	7365.87	7365.14	7364.61	7364.08	7363.46
(++)	-790	-130	-80	-50	-80	-10	-170	-270	-230	-150	-160	-170

CAL YR 1999 MAX 15000 MIN 4090 (++) -10880
WTR YR 2000 MAX 5040 MIN 2800 (++) -2290

(+) 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$^1/_4$NW$^1/_4$ 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 current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,290 ft above National Geodetic Vertical Datum of 1929, from topographic map. March 14, 1951 to September 30, 1960 at site 0.5 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	.44	.55	.43	.43	.44	.38	e.31	e.27	.30	.25	e.28
2	12	.45	.55	.39	.43	.44	.36	e.31	e.27	.29	.25	e.27
3	11	.47	.55	.39	.44	.44	.34	e.31	e.27	.28	.24	e.28
4	12	.47	.55	.39	.44	.41	.31	e.31	e.26	.27	.24	e.27
5	14	.49	.54	.41	.44	.45	e.32	e.31	e.26	.26	.25	e.26
6	14	.49	.52	.41	.44	.45	e.32	e.31	e.26	.28	.24	e.25
7	15	.49	.52	.41	.47	.47	e.32	e.31	e.26	.30	.23	.23
8	16	.51	.52	.41	.47	.44	e.32	e.31	e.26	.32	.24	.23
9	16	.51	.51	.41	.47	.43	e.32	e.31	e.26	.43	.24	.23
10	15	.51	.51	.39	.47	.42	e.32	e.31	e.26	.41	.24	.21
11	15	.52	.51	.39	.47	.40	e.32	e.31	e.26	.35	.29	.22
12	15	.52	.49	.39	.47	.40	e.32	e.31	e.26	.35	.32	.22
13	15	.55	.48	.39	.47	.39	e.32	e.30	e.26	.41	.30	.20
14	6.4	.55	.47	.38	.45	.40	e.32	e.30	.26	.41	.29	.19
15	.33	.56	.47	.37	.44	.40	e.32	e.29	.26	.33	.29	.19
16	.30	.58	.49	.37	.44	.39	e.32	e.30	.26	.33	.29	.20
17	.30	.58	.49	.38	.44	.38	e.32	e.29	.26	.34	.28	.19
18	.31	.61	.48	.37	.44	.37	e.32	e.30	.31	.32	.29	.22
19	.31	.61	.47	.37	.44	.38	e.32	e.29	.33	.31	.32	.25
20	.31	.62	.45	.37	.44	.40	e.31	e.29	.30	.33	.33	.21
21	.33	.62	.44	.39	.44	.45	e.31	e.29	.28	.32	.30	.24
22	.33	.61	.44	.39	.45	.52	e.31	e.29	.28	.32	.33	.26
23	.34	.57	.45	.39	.43	.49	e.31	e.28	.27	.30	.30	.24
24	.35	.58	.48	.39	.43	.48	e.31	e.28	.27	.29	.30	.22
25	.35	.57	.49	.39	.43	.41	e.31	e.28	.28	.25	.34	.22
26	.37	.58	.46	.42	.43	.37	e.31	e.28	.28	.25	.40	.22
27	.37	.58	.44	.42	.44	.35	e.31	e.28	.30	.24	.39	.24
28	.38	.58	.44	.41	.44	.36	e.31	e.27	.32	.24	e3.0	.24
29	.40	.57	.44	.40	.44	.36	e.31	e.27	.30	.24	e.76	.25
30	.40	.55	.43	.41	---	.35	e.31	e.27	.30	.24	e.69	.27
31	.43	---	.42	.41	---	.41	---	e.27	---	.25	e.51	---
TOTAL	194.31	16.34	15.05	12.24	12.93	12.85	9.60	9.14	8.27	9.56	12.74	7.00
MEAN	6.27	.54	.49	.39	.45	.41	.32	.29	.28	.31	.41	.23
MAX	16	.62	.55	.43	.47	.52	.38	.31	.33	.43	3.0	.28
MIN	.30	.44	.42	.37	.43	.35	.31	.27	.26	.24	.23	.19
AC-FT	385	32	30	24	26	25	19	18	16	19	25	14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2000, BY WATER YEAR (WY)

MEAN	3.17	1.40	1.25	1.22	1.30	2.20	5.54	32.4	27.6	27.4	16.5	9.91
MAX	15.1	4.48	3.90	4.39	5.03	6.25	21.7	67.4	53.3	59.1	41.0	33.0
(WY)	1994	1994	1994	1994	1994	1993	1994	1995	1995	1995	1995	1993
MIN	.49	.44	.28	.39	.41	.41	.32	.29	.28	.31	.41	.23
(WY)	1990	1997	1991	1991	1997	2000	2000	2000	2000	2000	2000	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1989 - 2000	
ANNUAL TOTAL	4720.00		320.03			
ANNUAL MEAN	12.9		.87		11.1	
HIGHEST ANNUAL MEAN					22.1	1995
LOWEST ANNUAL MEAN					.61	1990
HIGHEST DAILY MEAN	86	May 19	16	Oct 8	98	May 5 1995
LOWEST DAILY MEAN	.30	Oct 16	.19	Sep 14	.14	Dec 9 1990
ANNUAL SEVEN-DAY MINIMUM	.31	Oct 15	.20	Sep 11	.17	Dec 5 1990
INSTANTANEOUS PEAK FLOW					[a]108	May 4 1995
INSTANTANEOUS PEAK STAGE					3.35	Jul 6 1994
ANNUAL RUNOFF (AC-FT)	9360		635		8040	
10 PERCENT EXCEEDS	38		.55		39	
50 PERCENT EXCEEDS	2.2		.35		1.2	
90 PERCENT EXCEEDS	.48		.25		.41	

e Estimated
a From rating curve extended above 50 ft^3/s.

08343000 RIO SAN JOSE AT GRANTS, NM

LOCATION.--Lat 35°09'16", long 107°52'11", in SW$^1/_4$NW$^1/_4$ 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.91	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.55	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.28	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.01	.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	1.6	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	1.1	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.75	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.32	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.28	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	4.13	1.85	0.00	0.00	0.00	0.00	0.00
MEAN	.000	.000	.000	.000	.000	.13	.062	.000	.000	.000	.000	.000
MAX	.00	.00	.00	.00	.00	1.6	.91	.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	8.2	3.7	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2000, BY WATER YEAR (WY)

MEAN	.22	.020	.000	.009	.000	.21	5.27	1.68	.014	.12	.47	.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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1968 - 2000	
ANNUAL TOTAL	75.49		5.98			
ANNUAL MEAN	.21		.016		.69	
HIGHEST ANNUAL MEAN					8.10	1980
LOWEST ANNUAL MEAN					.000	1978
HIGHEST DAILY MEAN	22	Sep 2	1.6	Mar 23	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
INSTANTANEOUS PEAK FLOW			5.6	Mar 23	[a]1760	Aug 28 1952
INSTANTANEOUS PEAK STAGE			1.69	Mar 23	5.35	Aug 28 1952
ANNUAL RUNOFF (AC-FT)	150		12		501	
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$^1/_4$SE$^1/_4$ 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 fair. Flow slightly regulated by Bluewater Lake (station 08341400), 34 mi upstream. Diversions and ground-water withdrawal for irrigation of about 5,100 acres upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood probably occurred Sept. 6 or 7, 1909, following destruction of Bluewater Dam. The peak of Sept. 20, 1963, may have been exceeded by those of July 1919, August and September 1929, and August 1935.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	3.8	3.1	3.1	2.0	4.0	4.9	3.8	4.1	4.5	3.8	3.6
2	4.1	3.8	3.0	3.1	1.9	4.1	5.0	3.7	4.0	4.2	3.7	3.7
3	4.1	3.6	3.0	2.9	1.9	4.4	4.7	3.7	3.8	4.1	4.0	3.8
4	4.2	3.6	2.9	3.2	1.9	4.5	4.7	3.8	4.0	4.0	3.9	3.9
5	4.0	3.3	2.9	3.2	1.8	4.7	4.7	3.6	3.9	4.1	3.6	3.9
6	4.1	3.3	2.9	3.1	1.7	4.9	4.9	3.7	4.0	4.2	3.6	4.0
7	4.0	3.2	2.9	3.2	1.7	4.9	4.9	3.5	4.0	4.2	3.6	4.0
8	4.1	3.2	2.9	3.2	1.7	5.1	5.0	3.5	4.3	4.4	3.8	4.0
9	4.2	3.2	2.9	3.2	1.5	5.2	4.8	3.4	4.4	4.1	3.8	3.8
10	4.2	3.2	3.0	3.1	1.5	5.2	5.1	3.4	4.7	4.3	3.8	3.6
11	4.3	3.1	2.9	3.2	1.6	5.2	5.1	3.2	4.8	4.6	3.7	3.6
12	4.4	3.1	2.9	3.2	1.7	5.2	5.2	3.2	4.8	4.5	4.0	3.7
13	4.4	3.1	2.9	3.2	1.9	5.2	5.1	3.0	4.8	4.5	3.9	3.8
14	4.3	3.1	2.9	3.2	2.0	4.9	5.1	3.0	5.3	4.4	4.2	3.8
15	4.3	3.2	2.9	3.0	2.1	4.9	5.1	2.9	5.5	4.5	4.2	3.8
16	4.4	3.2	2.9	3.0	2.1	4.9	5.1	3.0	5.7	4.5	4.4	4.2
17	4.5	3.2	3.1	3.0	2.3	4.9	5.2	2.8	5.8	4.4	4.3	4.2
18	3.9	3.3	3.2	3.0	2.5	4.8	5.2	2.9	6.1	4.5	4.2	4.1
19	4.0	3.4	3.2	2.9	2.7	4.9	5.0	2.8	6.3	4.4	4.0	4.1
20	4.0	3.4	3.1	2.9	2.8	4.9	5.1	3.0	7.1	4.5	4.0	4.1
21	4.1	3.4	3.2	2.8	2.9	4.9	5.0	2.9	7.6	4.7	3.8	4.1
22	4.2	3.2	3.2	2.7	3.0	4.9	4.7	3.0	7.7	4.4	3.9	3.9
23	3.9	3.2	3.2	2.6	3.1	4.8	4.3	3.1	8.1	4.4	3.8	3.8
24	3.8	3.0	3.2	2.5	3.3	4.7	4.2	3.4	7.6	4.5	3.8	3.8
25	4.1	3.1	3.2	2.5	3.2	4.9	4.2	3.4	7.2	4.4	3.9	3.8
26	4.3	3.2	3.0	2.5	3.4	4.9	4.2	3.4	6.4	4.2	3.8	3.6
27	4.3	3.1	2.9	2.3	3.5	4.9	4.0	3.5	5.8	4.0	3.7	3.6
28	4.1	3.1	2.9	2.2	3.8	4.9	3.8	3.6	5.4	3.9	3.6	3.6
29	4.0	3.2	2.9	2.2	3.8	4.9	3.8	3.8	5.1	3.9	3.6	3.6
30	3.9	3.2	2.9	2.1	---	4.9	3.7	3.9	4.8	4.0	3.6	3.6
31	3.9	---	3.0	2.0	---	4.9	---	4.0	---	3.8	3.6	---
TOTAL	128.0	98.0	93.1	88.3	69.3	150.4	141.8	103.9	163.1	133.1	119.6	115.1
MEAN	4.13	3.27	3.00	2.85	2.39	4.85	4.73	3.35	5.44	4.29	3.86	3.84
MAX	4.5	3.8	3.2	3.2	3.8	5.2	5.2	4.0	8.1	4.7	4.4	4.2
MIN	3.8	3.0	2.9	2.0	1.5	4.0	3.7	2.8	3.8	3.8	3.6	3.6
AC-FT	254	194	185	175	137	298	281	206	324	264	237	228

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2000, BY WATER YEAR (WY)

MEAN	5.54	5.25	5.11	5.43	5.57	5.52	7.99	7.82	5.43	6.67	8.99	6.44
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1937 - 2000	
ANNUAL TOTAL	1496.9		1403.7			
ANNUAL MEAN	4.10		3.84		6.32	
HIGHEST ANNUAL MEAN					19.3	1941
LOWEST ANNUAL MEAN					3.53	1994
HIGHEST DAILY MEAN	59	Aug 5	8.1	Jun 23	538	Aug 30 1957
LOWEST DAILY MEAN	2.4	Aug 8	1.5	Feb 9,10	1.5	Feb 9 2000
ANNUAL SEVEN-DAY MINIMUM	2.7	Aug 8	1.6	Feb 6	1.6	Feb 6 2000
INSTANTANEOUS PEAK FLOW			9.3	Jun 23	[a]1400	Sep 20 1963
INSTANTANEOUS PEAK STAGE			1.71	Jun 23	4.87	Sep 20 1963
INSTANTANEOUS LOW FLOW			1.4	Feb 10	1.4	Feb 10 2000
ANNUAL RUNOFF (AC-FT)	2970		2780		4580	
10 PERCENT EXCEEDS	5.3		4.9		7.0	
50 PERCENT EXCEEDS	3.3		3.8		5.1	
90 PERCENT EXCEEDS	2.9		2.9		3.9	

a From rating curve extended above 450 ft^3/s, on basis of slope-area measurements at gage height 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 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 estimated daily discharges, which are poor. Diversions for irrigation of about 11,500 acres upstream from station (includes 3,700 acres irrigated wholly or partly from wells).

EXTREMES OUTSIDE PERIOD OF RECORD.--The greatest flood since about 1880 occurred Sept. 23, 1929, from information by local residents (discharge, about 35,000 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	5.9	.02	.00	.00	.00	.00
2	.00	.00	.00	.73	1.4	.00	391	.02	.00	.00	.00	.00
3	.00	.00	.00	4.9	.71	.00	329	3.3	.00	.00	.00	.00
4	.00	.00	.05	.07	1.0	.00	146	12	.00	.00	.00	.00
5	.00	.00	.03	.11	2.4	.00	74	9.1	.00	.00	.00	.00
6	.00	.00	.14	.91	.79	.00	49	5.3	.00	.00	.00	.00
7	.00	.00	.10	1.5	.32	.11	32	2.2	.00	.00	.00	.00
8	.00	.00	.00	1.1	1.9	.02	22	.66	.00	.00	.00	.00
9	.00	.00	.00	.02	.75	.01	17	.20	.00	.00	.00	.00
10	.00	.00	.00	.00	1.0	.00	10	.07	.00	.00	.00	.00
11	.00	.00	.00	.00	1.0	.00	6.9	.00	.00	.00	e.00	.00
12	.00	.00	.00	.00	.96	.00	4.2	.00	.00	.00	e.00	.00
13	.00	.00	.00	.00	.44	.00	2.4	.00	.00	.00	e.00	.00
14	.00	.00	.00	.00	.40	.00	4.2	.00	.00	.00	e.00	.00
15	.00	.00	.00	1.2	.52	.00	3.7	.00	.00	.00	e.00	.00
16	.00	.00	.00	8.0	.53	.00	2.7	.00	.00	.00	e.00	.00
17	.00	.00	.00	4.6	.33	.00	1.1	.00	.00	.00	.00	.00
18	.00	.00	.00	8.0	.13	.00	.55	.00	.00	1.8	.00	.00
19	.00	.00	.00	5.9	.08	.00	.13	.00	.00	1.6	.00	.00
20	.00	.00	.00	4.9	.06	.00	.02	.00	.00	.00	.00	.00
21	.00	.00	.00	4.4	.02	1.0	.02	.00	.00	.00	.00	.00
22	.00	.00	.00	3.3	.00	11	.01	.00	.00	.00	.00	.00
23	.00	.00	.00	2.7	.00	14	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	1.3	.00	23	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	1.5	.00	73	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	2.0	.00	210	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	1.3	.00	120	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.75	.00	50	.06	.00	.00	.00	.00	.00
29	.00	.00	.00	.39	.00	23	.05	.00	.00	.52	.00	.00
30	.00	.00	.00	.42	---	13	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.01	---	6.2	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.32	60.01	14.74	544.34	1101.94	32.87	0.00	3.92	0.00	0.00
MEAN	.000	.000	.010	1.94	.51	17.6	36.7	1.06	.000	.13	.000	.000
MAX	.00	.00	.14	8.0	2.4	210	391	12	.00	1.8	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.6	119	29	1080	2190	65	.00	7.8	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	49.3	7.14	1.23	2.49	15.1	18.3	14.9	41.4	19.7	63.6	185	84.8
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	15153.18		1758.14			
ANNUAL MEAN	41.5		4.80		41.9	
HIGHEST ANNUAL MEAN					171	1941
LOWEST ANNUAL MEAN					4.80	2000
HIGHEST DAILY MEAN	1150	Aug 5	391	Apr 2	5980	May 5 1941
LOWEST DAILY MEAN	.00	Jan 9	.00	Oct 1	.00	Nov 1 1939
ANNUAL SEVEN-DAY MINIMUM	.00	Feb 2	.00	Oct 1	.00	Nov 1 1939
INSTANTANEOUS PEAK FLOW			621	Apr 2	[a]18800	Sep 23 1941
INSTANTANEOUS PEAK STAGE			7.70	Apr 2	[b]16.90	Aug 12 1955
ANNUAL RUNOFF (AC-FT)	30060		3490		30390	
10 PERCENT EXCEEDS	86		2.9		65	
50 PERCENT EXCEEDS	.21		.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, 126,000 mg/L, Mar. 27; minimum daily mean, no flow on many days.
SEDIMENT LOAD: Maximum daily, 121,000 tons, Apr. 4; minimum daily, 0 ton on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)
JAN										
20...	1350	3.7	645	106	11.0	8.4	2820	18.0	6.0	--
FEB										
07...	1351	.15	647	118	9.8	8.4	3850	18.0	15.5	--
MAR										
23...	1115	14	642	98	9.7	8.1	2210	10.5	8.0	470
APR										
04...	1240	152	649	109	10.2	7.8	1500	20.0	11.0	--

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)
JAN										
20...	--	--	--	--	--	--	--	--	--	--
FEB										
07...	--	--	--	--	--	--	--	--	--	--
MAR										
23...	390	124	38.7	5.5	6	304	116	78	95	0
APR										
04...	--	--	--	--	--	--	--	--	--	--

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
JAN										
20...	--	--	--	--	--	--	--	--	--	--
FEB										
07...	--	--	--	--	--	--	--	--	--	--
MAR										
23...	211	.7	5.5	751	1490	1	<1	<2.0	53	<1
APR										
04...	--	--	--	--	--	--	--	--	--	--

DATE	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	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)
JAN										
20...	--	--	--	--	--	--	--	--	--	--
FEB										
07...	--	--	--	--	--	--	--	--	--	--
MAR										
23...	266	<1.0	<.8	<1	5	<30	<1	126	4	<1
APR										
04...	--	--	--	--	--	--	--	--	--	--

08353000 RIO PUERCO NEAR BERNARDO, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L) (09511)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JAN									
20...	--	--	--	--	--	--	--	1410	95
FEB									
07...	--	--	--	--	--	--	--	437	87
MAR									
23...	E1.7	<1	2	.09	.02	.10	5	3180	97
APR									
04...	--	--	--	--	--	--	--	70600	86

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MEA CON TRA (MG	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 CONCE TRATI (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	0	.00
2	0	.00	0	.00	0	.00	5380	22	737	6.6	0	.00
3	0	.00	0	.00	0	.00	25200	404	63	.19	0	.00
4	0	.00	0	.00	35	.02	166	.13	68	.86	0	.00
5	0	.00	0	.00	29	.01	140	.10	266	1.8	0	.00
6	0	.00	0	.00	229	.19	2660	24	212	.43	0	.00
7	0	.00	0	.00	234	.14	8920	65	110	.12	126	.09
8	0	.00	0	.00	0	.00	6700	51	334	1.8	1	.00
9	0	.00	0	.00	0	e.00	180	.16	165	.40	1	.00
10	0	.00	0	.00	0	.00	0	.00	269	.74	0	.00
11	0	.00	0	.00	0	.00	0	.00	288	.92	0	.00
12	0	.00	0	.00	0	.00	0	.00	251	.76	0	.00
13	0	.00	0	.00	0	.00	0	.00	211	.27	0	.00
14	0	.00	0	.00	0	.00	0	.00	224	.25	0	.00
15	0	.00	0	.00	0	.00	5740	192	149	.21	0	.00
16	0	.00	0	.00	0	.00	31400	939	181	.27	0	.00
17	0	.00	0	.00	0	.00	10600	176	143	.13	0	.00
18	0	.00	0	.00	0	.00	2930	69	161	.06	0	.00
19	0	.00	0	.00	0	.00	869	17	235	.06	0	.00
20	0	.00	0	.00	0	.00	1440	21	182	.04	0	.00
21	0	.00	0	.00	0	.00	1700	21	5	.00	589	2.8
22	0	.00	0	.00	0	.00	703	6.7	0	.00	2790	123
23	0	.00	0	.00	0	.00	446	3.7	0	.00	4680	213
24	0	.00	0	.00	0	.00	448	1.7	0	.00	12300	998
25	0	.00	0	.00	0	.00	392	1.6	0	.00	35400	13900
26	0	.00	0	.00	0	.00	389	2.2	0	.00	112000	63400
27	0	.00	0	.00	0	.00	333	1.2	0	.00	126000	40400
28	0	.00	0	.00	0	.00	360	.74	0	.00	85000	10400
29	0	.00	0	.00	0	.00	233	.34	0	.00	72200	4420
30	0	.00	0	.00	0	.00	238	.40	---	---	65400	2350
31	0	.00	---	---	0	.00	4	.00	---	---	67600	1130
TOTAL	---	0.00	---	0.00	---	0.36	---	2019.97	---	15.91	---	137336.89

08353000 RIO PUERCO NEAR BERNARDO, NM--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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 CONCEN TRATIO (MG/L)	LOAD (TONS/ DAY)	MEAN CONCE TRATI (MG/L	LOAD (TON DAY)	MEAN CONCE TRATI (MG/L	LOAD (TON DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	54700	901	37	.00	0	.00	0	.00	0	.00	0	.00
2	102000	121000	52	.01	0	.00	0	.00	0	.00	0	.00
3	95400	87400	21400	693	0	.00	0	.00	0	.00	0	.00
4	72500	28300	93100	3100	0	.00	0	.00	0	.00	0	.00
5	65400	13000	80300	2000	0	.00	0	.00	0	.00	0	.00
6	53400	7020	57000	821	0	.00	0	.00	0	.00	0	.00
7	59900	5040	28700	198	0	.00	0	.00	0	.00	0	.00
8	48200	2810	4730	13	0	.00	0	.00	0	.00	0	.00
9	44500	1860	286	.21	0	.00	0	.00	0	.00	0	.00
10	45200	1090	125	.05	0	.00	0	.00	0	.00	0	.00
11	41400	638	0	.00	0	.00	0	.00	0	e.00	0	.00
12	39800	347	0	.00	0	.00	0	.00	0	e.00	0	.00
13	23000	90	0	.00	0	.00	0	.00	0	e.00	0	.00
14	18200	197	0	.00	0	.00	0	.00	0	e.00	0	.00
15	22300	154	0	.00	0	.00	0	.00	0	e.00	0	.00
16	5090	25	0	.00	0	.00	0	.00	0	e.00	0	.00
17	572	.35	0	.00	0	.00	0	.00	0	.00	0	.00
18	6	.00	0	.00	0	.00	4420	126	0	.00	0	.00
19	0	.00	0	.00	0	.00	3530	67	0	.00	0	.00
20	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
21	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
22	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
23	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
24	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
25	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
26	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
27	0	.00	0	.00	0	.00	0	.00	0	.00	0	.00
28	18	.00	0	.00	0	.00	0	.00	0	.00	0	.00
29	22	.00	0	.00	0	.00	587	2.5	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	---	269872.35	---	6825.27	---	0.00	---	195.50	---	0.00	---	0.00
YEAR		416266.25										

e Estimated

08354500 SOCORRO MAIN CANAL NORTH AT SAN ACACIA, NM

LOCATION.--Lat 34°15'17", long 106°53'43", in SE$^1/_4$NW$^1/_4$ 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 (U.S. Bureau of Reclamation bench mark). Prior to Mar. 8, 1958, at site 300 ft upstream (in old channel) at datum 0.42 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	261	e90	.00	.00	.00	e.00	186	239	205	244	213	222
2	264	.00	.00	.00	.00	e56	182	220	205	248	206	214
3	276	.00	.00	.00	.00	109	199	255	185	265	186	223
4	277	.00	.00	.00	.00	102	214	254	213	265	194	221
5	285	.00	.00	.00	.00	106	221	252	220	248	195	225
6	282	.00	.00	.00	.00	152	220	243	222	197	193	204
7	285	.00	.00	.00	.00	158	221	258	239	155	209	188
8	277	.00	.00	.00	.00	167	218	264	244	148	188	165
9	271	.00	.00	.00	.00	203	223	256	244	158	217	180
10	271	.00	.00	.00	.00	208	239	252	245	160	206	190
11	268	.00	.00	.00	.00	208	254	248	243	166	214	193
12	270	.00	.00	.00	.00	209	255	254	245	185	209	214
13	269	.00	.00	.00	.00	212	253	258	243	189	211	214
14	267	.00	.00	.00	.00	213	253	262	238	236	214	222
15	266	.00	.00	.00	.00	208	243	257	242	256	215	213
16	269	.00	.00	.00	.00	212	241	263	239	256	212	219
17	272	.00	.00	.00	.00	208	248	272	241	255	180	219
18	261	.00	.00	.00	.00	219	240	277	243	255	192	188
19	234	.00	.00	.00	.00	214	246	277	258	232	211	185
20	237	.00	.00	.00	.00	214	242	266	261	227	220	217
21	242	.00	.00	.00	.00	199	243	271	261	198	215	233
22	243	.00	.00	.00	.00	153	236	268	257	225	206	250
23	241	.00	.00	.00	.00	140	243	258	244	229	228	240
24	241	.00	.00	.00	.00	145	246	240	228	215	216	246
25	239	.00	.00	.00	.00	145	253	227	230	207	224	227
26	243	.00	.00	.00	.00	142	253	231	229	210	211	223
27	249	.00	.00	.00	.00	137	272	221	214	185	209	227
28	245	.00	.00	.00	.00	162	265	206	223	153	230	224
29	244	.00	.00	.00	.00	188	268	221	228	199	225	225
30	249	.00	.00	.00	---	185	272	222	239	212	222	223
31	248	---	.00	.00	---	184	---	208	---	213	222	---
TOTAL	8046	90.00	0.00	0.00	0.00	5158.00	7149	7700	7028	6591	6493	6434
MEAN	260	3.00	.000	.000	.000	166	238	248	234	213	209	214
MAX	285	90	.00	.00	.00	219	272	277	261	265	230	250
MIN	234	.00	.00	.00	.00	.00	182	206	185	148	180	165
AC-FT	15960	179	.00	.00	.00	10230	14180	15270	13940	13070	12880	12760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

MEAN	136	8.51	6.95	6.36	4.69	154	203	203	199	179	155	137
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	59527.00		54689.00			
ANNUAL MEAN	163		149		117	
HIGHEST ANNUAL MEAN					170	1995
LOWEST ANNUAL MEAN					63.7	1964
HIGHEST DAILY MEAN	314	Jun 11	285	Oct 5	325	Aug 5 1995
LOWEST DAILY MEAN	.00	Jan 1	.00	Nov 2	.00	Oct 18 1963
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Nov 2	.00	Nov 2 1963
ANNUAL RUNOFF (AC-FT)	118100		108500		84520	
10 PERCENT EXCEEDS	269		258		245	
50 PERCENT EXCEEDS	234		208		125	
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 U.S. Bureau of Reclamation).

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Conveyance channel, constructed in 1958, is 1 of 3 channels (stations 08354500, 08354900) carrying flow in valley cross section. Original design and plan were for conveyance channel to carry all flows up to about 2,000 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	e2.8	.00	.00	.00	.03	.01	.00	.06	.29	e.02	.01
2	3.5	e.00	.00	.00	.00	.45	.00	.00	.11	.24	e.02	.07
3	3.2	e.00	.00	.00	.00	.55	.00	.04	.04	.19	e.02	.09
4	3.1	e.00	.00	.00	.00	.55	.01	.18	.07	.15	e.02	.09
5	3.3	e.00	.00	.00	.00	.55	.07	.10	.11	.12	e.02	.09
6	3.6	e.00	.00	.00	.00	.55	.05	.04	.11	.09	e.02	.09
7	4.9	e.00	.00	.00	.00	.51	.05	.04	.08	.07	e.02	.09
8	4.6	e.00	.00	.00	.00	.46	.02	.11	.13	.04	e.02	.08
9	4.1	e.00	.00	.00	.00	.46	.00	.14	.14	.00	e.02	.00
10	3.9	.00	.00	.00	.00	.46	.02	.09	.10	.06	e.02	.00
11	4.0	.00	.00	.00	.00	.51	.04	.01	.14	.07	e.02	.00
12	4.1	.00	.00	.00	.00	.48	.06	.09	.15	.06	e.02	.00
13	4.3	.00	.00	.00	.00	.54	.05	.13	.11	.10	e.02	.00
14	4.3	.00	.00	.00	.00	.51	.05	.09	.10	.13	e.02	.00
15	4.3	.00	.00	.00	.00	.55	.04	.06	.10	.16	e.02	e.00
16	4.3	.00	.00	.00	.00	.49	.05	.04	.12	.16	e.02	e.00
17	3.9	.00	.00	.00	.00	.46	.05	.03	.19	.21	e.02	e.00
18	30	.00	.00	.00	.00	.49	.05	.05	.21	.24	e.02	e.00
19	57	.00	.00	.00	.00	.63	.08	.02	.25	.17	.03	e.00
20	54	.00	.00	.00	.00	.66	.06	.07	.28	.14	.10	.00
21	40	.00	.00	.00	.00	7.2	.00	.08	.22	.11	.07	.00
22	5.4	.00	.00	.00	.00	25	.00	.08	.21	.10	.09	.00
23	2.8	.00	.00	.00	.00	23	.00	.11	.24	.10	.06	e5.5
24	e2.7	.00	.00	.00	.00	8.2	.03	.10	.27	.17	.04	6.4
25	e2.5	.00	.00	.00	.00	.43	.06	.13	.35	.11	.03	e2.5
26	e2.6	.00	.00	.00	.00	.42	.05	.12	.39	.09	.03	.23
27	e2.6	.00	.00	.00	.00	.33	.05	.11	.31	15	.00	.14
28	2.7	.00	.00	.00	.00	.30	.06	.14	.33	16	.00	.10
29	2.6	.00	.00	.00	.00	.35	.00	.13	.30	e.02	.00	.00
30	2.4	.00	.00	.00	---	.34	.00	.23	.26	e.02	.00	.00
31	e4.3	---	.00	.00	---	.23	---	.14	---	e.02	.04	---
TOTAL	278.5	2.80	0.00	0.00	0.00	75.69	1.01	2.70	5.48	34.43	0.85	15.48
MEAN	8.98	.093	.000	.000	.000	2.44	.034	.087	.18	1.11	.027	.52
MAX	57	2.8	.00	.00	.00	25	.08	.23	.39	16	.10	6.4
MIN	2.4	.00	.00	.00	.00	.03	.00	.00	.04	.00	.00	.00
AC-FT	552	5.6	.00	.00	.00	150	2.0	5.4	11	68	1.7	31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2000, BY WATER YEAR (WY)

MEAN	119	550	560	455	460	371	346	483	367	181	160	116
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1959 - 2000	
ANNUAL TOTAL	21462.74		416.94			
ANNUAL MEAN	58.8		1.14		347	
HIGHEST ANNUAL MEAN					1033	1973
LOWEST ANNUAL MEAN					.049	1988
HIGHEST DAILY MEAN	783	Jun 1	57	Oct 19	1950	May 12 1966
LOWEST DAILY MEAN	.00	Jan 1	.00	Nov 2	.00	Jul 22 1959
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Nov 2	.00	Jul 20 1963
ANNUAL RUNOFF (AC-FT)	42570		827		251100	
10 PERCENT EXCEEDS	63		2.6		1230	
50 PERCENT EXCEEDS	1.3		.03		8.0	
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, 882 mg/L, Oct. 19; minimum daily mean, no flow on many days.
SEDIMENT LOAD: Maximum daily, 135 tons, Oct. 19; minimum daily, 0 ton on many days.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	120	1.1	180	e1.4	0	.00	0	.00	0	.00	22	.00
2	165	1.6	2	e.00	0	.00	0	.00	0	.00	198	.24
3	166	1.4	0	e.00	0	.00	0	.00	0	.00	136	.20
4	176	1.5	0	e.00	0	.00	0	.00	0	.00	127	.19
5	182	1.6	0	e.00	0	.00	0	.00	0	.00	132	.20
6	236	2.3	0	e.00	0	.00	0	.00	0	.00	124	.18
7	219	2.9	0	e.00	0	.00	0	.00	0	.00	132	.18
8	162	2.0	0	e.00	0	.00	0	.00	0	.00	129	.16
9	144	1.6	0	e.00	0	.00	0	.00	0	.00	114	.14
10	155	1.7	0	.00	0	.00	0	.00	0	.00	123	.15
11	152	1.6	0	.00	0	.00	0	.00	0	.00	134	.19
12	142	1.6	0	.00	0	.00	0	.00	0	.00	141	.18
13	232	2.7	0	.00	0	.00	0	.00	0	.00	156	.23
14	152	1.8	0	.00	0	.00	0	.00	0	.00	151	.21
15	156	1.8	0	.00	0	.00	0	.00	0	.00	141	.21
16	208	2.4	0	.00	0	.00	0	.00	0	.00	133	.18
17	130	1.4	0	.00	0	.00	0	.00	0	.00	143	.18
18	431	55	0	.00	0	.00	0	.00	0	.00	150	.20
19	882	135	0	.00	0	.00	0	.00	0	.00	157	.27
20	649	95	0	.00	0	.00	0	.00	0	.00	152	.27
21	452	49	0	.00	0	.00	0	.00	0	.00	193	5.5
22	177	e1.4	0	.00	0	.00	0	.00	0	.00	225	15
23	128	e.45	0	.00	0	.00	0	.00	0	.00	176	11
24	126	e.92	0	.00	0	.00	0	.00	0	.00	142	3.9
25	183	e1.2	0	.00	0	.00	0	.00	0	.00	117	.14
26	150	e2.6	0	.00	0	.00	0	.00	0	.00	113	.13
27	182	e1.0	0	.00	0	.00	0	.00	0	.00	126	.11
28	202	1.5	0	.00	0	.00	0	.00	0	.00	127	.10
29	147	1.0	0	.00	0	.00	0	.00	0	.00	131	.12
30	123	.79	0	.00	0	.00	0	.00	---	---	115	.11
31	110	e1.3	---	---	0	.00	0	.00	---	---	106	.07
TOTAL	---	377.16	---	1.40	---	0.00	---	0.00	---	0.00	---	39.94

08354800 RIO GRANDE CONVEYANCE CHANNEL AT SAN ACACIA, NM--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	4	.00	0	.00	78	.01	94	.07	116	e.06	121	.01
2	0	.00	0	.00	87	.03	135	.09	113	e.08	90	.02
3	0	.00	82	.01	100	.01	140	.07	140	e.11	110	.03
4	75	.00	210	.10	109	.02	156	.06	111	e.08	105	.03
5	100	.02	40	.01	81	.02	127	.04	70	e.04	110	.03
6	90	.01	13	.00	76	.02	110	.03	93	e.05	109	.03
7	90	.01	161	.02	77	.02	58	.02	113	e.06	100	.02
8	60	.03	137	.04	101	.04	37	.01	48	e.02	95	.02
9	0	.00	134	.05	94	.04	0	.00	87	e.04	0	.00
10	50	.00	65	.02	112	.03	67	.01	100	e.06	0	.00
11	75	.01	35	.00	99	.04	124	.02	143	e.10	0	.00
12	110	.02	115	.03	81	.03	114	.02	128	e.07	0	.00
13	100	.01	100	.04	78	.02	168	.04	122	e.08	0	e.00
14	100	.01	94	.02	97	.02	138	.05	127	e.08	0	.00
15	80	.01	88	.01	66	.03	174	.07	112	e.06	0	e.00
16	100	.01	64	.01	39	.02	140	.06	120	e.06	0	e.00
17	100	.01	62	.01	74	.04	135	.08	152	e.07	0	e.00
18	100	.01	80	.01	71	.04	158	.10	102	.04	0	e.00
19	130	.03	107	.01	71	.05	127	.06	129	.01	0	e.00
20	110	.02	92	.02	73	.06	126	.05	148	.04	0	e.00
21	0	.00	92	.02	105	.06	119	.04	222	.04	0	e.00
22	75	.00	79	.02	94	.05	114	.03	160	.04	0	e.00
23	0	.00	100	.03	119	.08	117	.03	161	.03	241	e3.6
24	100	.01	109	.03	197	.14	117	.05	132	.01	311	5.4
25	120	.02	103	.04	142	.13	94	.03	157	.01	132	e.89
26	100	.01	101	.03	98	.10	77	.02	115	.01	121	.08
27	100	.01	101	.03	146	.12	197	20	0	.00	129	.05
28	120	.02	90	.03	143	.13	278	12	0	.00	83	.03
29	0	.00	92	.03	98	.08	110	e.07	0	.00	0	e.00
30	0	.00	70	.05	104	.07	95	e.08	0	.00	0	.00
31	---	---	81	.03	---	---	115	e.08	189	.02	---	---
TOTAL	---	0.28	---	0.75	---	1.55	---	33.38	---	1.37	---	10.24
YEAR		466.07										

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 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 10,00 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 estimated daily discharges, which are poor. Floodway is 1 of 3 channels (stations 08354500, 08354800) carrying flow in valley cross section. For combined monthly flow in acre-ft of floodway, conveyance channel, and Socorro main canal north, see tabulation below. Normal plan is for floodway to carry flow when combined capacities of conveyance channel (about 2,000 ft^3/s) and Socorro main canal north (about 200 ft^3/s) is exceeded, during periods of silt sluicing, and when river silt load is excessive. Diversions upstream from station for irrigation of about 760,000 acres; this includes Socorro main canal north, which bypasses station and irrigates about 8,000 acres. 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. 27 years (water years 1974-2000). 1,442 ft^3/s, 1,045,000 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, 1,380 ft^3/s, Mar. 24; minimum daily, 240 ft^3/s, Sept. 7.

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	512	e559	e1060	880	996	790	615	324	359	887	385	356
2	463	e1090	e960	846	995	685	1090	295	333	787	355	317
3	e315	e1320	e1060	834	1010	755	1130	321	344	651	325	283
4	e320	e1210	e1100	797	1000	678	746	343	466	484	359	262
5	e315	e1220	e1090	776	977	628	575	356	701	407	320	242
6	317	e1230	e1070	815	967	560	440	316	590	412	306	241
7	327	e1280	e1070	794	971	546	e375	338	469	385	306	240
8	355	e1230	e1060	800	951	576	387	400	443	374	299	247
9	360	e1160	e988	808	945	495	396	444	455	379	315	283
10	369	e1140	e845	825	1030	465	404	380	442	355	334	248
11	389	e1070	e840	859	e1040	522	455	302	445	e356	342	291
12	e370	e1050	e860	e890	e1040	417	354	376	527	e349	369	281
13	e360	e1040	896	e870	e960	427	344	406	550	400	408	246
14	e360	e1070	918	e870	e945	397	371	441	521	441	434	279
15	e340	e1060	848	e879	952	403	370	475	505	431	461	255
16	e320	e1030	809	e933	951	386	348	488	472	493	291	263
17	e330	e1000	829	e1000	e980	373	423	482	415	505	248	265
18	462	e1030	848	e1020	e970	398	413	430	419	451	263	244
19	711	e1050	815	e1030	981	554	474	406	475	454	370	248
20	735	e1030	791	e1120	978	651	436	407	467	392	716	256
21	745	e1030	806	e1050	963	896	435	393	504	395	1070	283
22	782	e1030	822	e1060	969	1090	485	382	487	391	835	266
23	714	e1110	817	e1060	976	1210	512	340	e441	362	503	285
24	596	e1100	799	e1090	1010	e1380	569	314	e429	333	463	306
25	559	e1130	903	e1150	985	e1300	443	334	e399	301	443	387
26	e430	e1040	903	e1240	961	e1110	352	346	e363	303	370	429
27	e450	e1040	897	e1270	946	e898	353	327	416	273	337	387
28	e380	e1040	870	e1210	e935	e742	331	379	486	326	319	336
29	e360	e1050	822	e1050	e880	686	337	344	495	378	292	303
30	333	e1070	815	919	---	674	345	361	594	390	286	295
31	311	---	831	886	---	606	---	321	---	397	338	---
TOTAL	13690	32509	28042	29631	28264	21298	14308	11571	14012	13242	12462	8624
MEAN	442	1084	905	956	975	687	477	373	467	427	402	287
MAX	782	1320	1100	1270	1040	1380	1130	488	701	887	1070	429
MIN	311	559	791	776	880	373	331	295	333	273	248	240
AC-FT	27150	64480	55620	58770	56060	42240	28380	22950	27790	26270	24720	17110
(+)	43660	64660	55620	58770	56060	52620	42560	38220	41740	39410	37600	29900

CAL YR 1999 TOTAL 410445 MEAN 1125 MAX 4720 MIN 145 AC-FT 814100 (+) MEAN 1347 AC-FT 974800
WTR YR 2000 TOTAL 227653 MEAN 622 MAX 1380 MIN 240 AC-FT 451500 (+) MEAN 772 AC-FT 560800

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, 37,200 mg/L, Apr. 3; minimum daily mean, 88 mg/L, Mar. 16.
SEDIMENT LOAD: Maximum daily, 115,000 tons, Apr. 3; minimum daily, 87 tons Aug. 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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)	ANC UNFLTRD GRAN T. FIELD (MG/L AS CACO3) (29813)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT												
29...	0940	390	643	103	8.7	8.2	530	21.0	15.0	--	33	--
DEC												
01...	1154	1070	642	--	--	7.9	494	10.5	7.0	--	2070	12
JAN												
12...	1020	881	645	105	10.2	8.3	621	19.0	9.0	--	1240	15
MAR												
28...	1155	834	634	97	10.0	8.5	590	--	6.0	--	4270	96
MAY												
03...	1430	325	644	106	7.9	8.2	608	25.0	21.0	--	111	48
24...	1120	311	643	108	8.1	8.5	582	25.0	21.0	10	86	62
JUN												
09...	1115	495	643	111	7.9	8.3	510	25.0	23.5	--	--	--
AUG												
29...	1330	284	651	102	7.3	8.6	587	--	24.0	--	--	--
SEP												
19...	1255	248	644	115	8.8	8.7	565	--	20.0	--	105	86

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	STREAM VELOC-ITY, MEAN (F/S) (00055)	TEMPER-ATURE WATER (DEG C) (00010)	STREAM DEPTH, MEAN (FT) (00064)	STREAM WIDTH (FT) (00004)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)
OCT										
29...	0940	390	1.42	15.0	3.6	100	33	35	--	--
DEC										
01...	1154	1070	4.25	7.0	2.0	156	2070	5980	--	--
JAN										
12...	1020	881	3.01	9.0	2.2	158	1240	2950	--	--
FEB										
25...	1040	983	2.69	--	2.6	163	1190	3160	--	--
MAR										
28...	1155	834	2.27	6.0	2.5	160	4270	9620	63	78
APR										
07...	1200	373	2.14	--	2.0	104	1640	1650	73	88
MAY										
03...	1035	326	1.92	25.0	1.7	109	83	73	--	--
23...	1230	313	2.68	--	1.9	110	70	59	--	--
JUN										
09...	1044	--	--	--	--	--	240	--	--	--
23...	1022	445	2.02	--	2.3	106	87	105	--	--
JUL										
21...	1100	397	1.99	--	2.1	104	90	96	--	--
AUG										
29...	1136	284	1.64	--	2.1	99.0	435	334	78	79

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)
OCT										
29...	--	--	--	--	30	70	100	--	--	--
DEC										
01...	--	--	--	13	62	95	99	100	12	--
JAN										
12...	--	--	--	17	39	73	99	100	15	--
FEB										
25...	--	--	--	18	30	48	77	100	--	--
MAR										
28...	86	89	90	90	90	91	99	100	96	--
APR										
07...	89	94	--	95	95	96	98	100	--	--
MAY										
03...	--	--	--	55	68	86	100	--	--	--
23...	--	--	--	--	--	--	--	--	67	100
JUN										
09...	--	--	--	--	--	--	--	--	93	100
23...	--	--	--	--	--	--	--	--	85	100
JUL										
21...	--	--	--	--	--	--	--	--	79	100
AUG										
29...	89	93	--	--	--	--	--	--	96	100

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	STREAM VELOC-ITY, MEAN (F/S) (00055)	TEMPER-ATURE WATER (DEG C) (00010)	STREAM DEPTH, MEAN (FT) (00064)	STREAM WIDTH (FT) (00004)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM (80165)
OCT								
29...	0940	390	1.42	15.0	3.6	100	3	14
DEC								
01...	1154	1070	4.25	7.0	2.0	156	0	5
JAN								
12...	1020	881	3.01	--	2.2	158	0	1
FEB								
25...	1040	983	2.69	--	2.6	163	--	0
MAR								
28...	1155	834	2.27	6.0	2.5	160	--	0
APR								
07...	1200	373	2.14	--	2.0	104	--	0
MAY								
03...	1035	326	1.92	25.0	1.7	109	0	1
23...	1230	313	2.68	--	1.9	110	0	1
JUN								
09...	1044	495	--	--	--	--	--	0
23...	1022	445	2.02	--	2.3	106	--	0
JUL								
21...	1100	397	1.99	--	2.1	104	--	0
AUG								
17...	1125	239	1.61	--	1.8	99.0	--	0
29...	1136	284	1.64	--	2.1	99.0	0	1

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	BED MAT. SIEVE DIAM. % FINER THAN .250 MM (80166)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM (80167)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM (80173)
OCT								
29...	33	56	63	66	71	77	84	88
DEC								
01...	55	95	99	100	--	--	--	--
JAN								
12...	13	71	92	96	98	100	--	--
FEB								
25...	7	68	93	97	98	100	--	--
MAR								
28...	4	34	66	82	93	100	--	--
APR								
07...	3	36	75	90	96	99	100	--
MAY								
03...	6	46	71	82	89	95	100	--
23...	14	53	82	93	98	100	--	--
JUN								
09...	6	43	66	82	95	100	--	--
23...	8	54	77	86	91	96	100	--
JUL								
21...	11	60	78	86	93	99	100	--
AUG								
17...	10	52	69	78	88	97	100	--
29...	17	63	82	89	95	98	100	--

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	377	524	1100	e2050	1670	e4750	231	549	158	425	200	433
2	229	291	2660	e8060	1520	e3940	208	476	191	513	199	376
3	207	e176	6570	e23300	1660	e4750	222	498	162	443	222	454
4	176	e176	5790	e18900	1860	e5530	467	1000	138	373	232	426
5	205	e172	5300	e17500	1810	e5330	480	1010	119	314	216	366
6	199	170	5940	e19700	1730	e5000	432	950	125	325	222	335
7	197	174	9230	e31900	1880	e5430	395	846	127	332	197	293
8	179	172	9010	e30000	2050	e5870	272	587	138	356	273	425
9	127	124	4350	e13700	1970	e5260	196	427	183	468	237	317
10	121	121	1640	e5050	1900	e4340	257	571	197	548	166	209
11	115	121	1690	e4900	1840	e4170	255	591	189	e531	169	239
12	111	e111	1730	e4900	1690	e3920	280	e675	167	e379	119	134
13	112	e108	2060	e5780	1800	e4350	316	e742	169	e389	114	133
14	146	e141	1970	e5690	2420	6000	288	e677	185	e293	127	138
15	306	e280	1830	e5240	2400	5490	294	e698	154	396	116	126
16	358	e309	2710	e7540	2000	4370	292	e733	175	449	88	92
17	368	e340	2050	e5560	1280	2860	259	e697	194	e513	92	92
18	392	489	838	e2330	752	1720	254	e700	184	e482	128	140
19	765	1490	2360	e6660	622	1370	348	e968	190	503	129	193
20	746	1470	3630	e10100	432	923	249	e756	196	518	115	203
21	580	1170	2610	e7260	274	597	270	e765	181	471	178	434
22	527	1110	1720	e4780	342	759	287	e821	174	454	318	947
23	529	1020	1770	e5300	329	725	284	e813	190	502	608	1990
24	456	732	1600	e4750	388	838	296	e871	213	582	736	e2750
25	346	522	1560	e4760	272	662	246	e767	226	601	1130	e3930
26	284	333	1750	e4940	382	929	452	e1520	216	561	921	e2733
27	314	e315	2370	e6650	380	922	598	e2070	240	612	1310	e3210
28	274	e334	2860	e8030	291	684	492	e1610	233	e588	3020	e6750
29	158	e163	1170	e3350	279	620	480	e1360	216	e513	2740	e5130
30	166	151	666	e1920	308	677	448	1120	---	---	2870	5220
31	180	154	---	---	240	539	269	643	---	---	3010	4920
TOTAL	---	12963	---	280600	---	93325	---	26511	---	13434	---	43138

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	2280	3780	190	166	136	134	2580	6760	178	185	889	857
2	14600	55200	172	139	117	106	5720	12200	143	137	597	513
3	37200	115000	123	107	158	149	3100	5520	144	128	420	321
4	26000	52700	141	132	766	1210	1740	2300	159	154	363	257
5	13900	21500	170	163	2050	3910	939	1030	178	154	466	306
6	9300	11100	144	124	971	1560	832	927	110	91	261	174
7	5030	e5100	182	167	457	585	650	676	108	89	359	234
8	3000	3120	224	243	340	409	615	622	106	87	384	257
9	1360	1460	243	295	276	341	567	581	191	167	820	674
10	928	1010	206	215	293	350	491	471	346	321	466	316
11	1060	1300	127	105	299	362	402	e393	200	190	611	493
12	1100	1050	189	196	394	564	322	e308	222	226	633	482
13	605	567	164	180	411	613	335	369	269	296	401	267
14	419	420	166	198	394	555	1020	1210	253	302	411	311
15	504	504	185	238	403	551	1260	1480	384	498	347	239
16	406	381	171	227	319	408	547	757	255	201	370	263
17	305	350	196	256	242	272	719	983	246	165	275	197
18	298	332	178	209	203	229	378	460	239	171	243	160
19	323	420	164	180	234	302	476	589	8430	8670	136	92
20	222	262	162	178	263	331	531	568	8390	16400	133	92
21	154	183	164	174	234	318	346	372	10200	31300	142	110
22	170	222	138	143	238	316	367	390	14800	34500	138	100
23	182	254	100	93	250	e301	414	406	8430	11600	170	131
24	196	304	108	92	178	e212	271	243	3280	4080	189	156
25	162	194	167	156	161	e173	316	256	2180	2630	242	258
26	162	153	181	170	123	e121	284	232	966	971	281	326
27	205	195	149	134	155	175	270	198	480	438	318	332
28	202	180	197	203	258	351	508	481	705	612	306	278
29	198	180	166	156	483	649	810	837	1330	1050	233	191
30	187	175	163	159	402	674	430	467	752	576	244	194
31	---	---	123	108	---	---	258	279	950	897	---	---
TOTAL	---	277596	---	5306	---	16231	---	42365	---	117286	---	8581
YEAR		937336										

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 estimated daily discharges, 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. No flow from River since 1965.

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	e328	374	238	240	225	246	336	281	193	312	235	e230
2	e326	e350	238	239	217	274	343	284	163	336	240	297
3	329	e300	236	259	219	330	373	272	254	343	209	327
4	359	e290	247	243	219	335	358	257	221	314	241	282
5	332	e280	252	230	220	330	326	282	223	298	247	219
6	328	e275	250	225	222	335	338	285	230	245	242	181
7	327	e270	245	215	225	374	294	281	229	235	213	197
8	314	e260	240	215	225	316	299	299	248	198	213	185
9	311	e255	235	215	228	298	322	309	283	193	197	169
10	310	e250	234	215	230	366	314	316	277	251	201	179
11	325	e240	233	218	233	341	294	322	299	264	235	177
12	343	236	232	220	233	318	321	306	317	257	266	198
13	355	229	234	219	237	321	307	308	310	240	260	183
14	369	231	235	221	240	311	289	315	299	261	279	180
15	357	239	241	226	236	301	280	341	318	268	287	225
16	346	240	233	226	236	280	315	317	334	307	254	219
17	356	239	228	225	233	268	325	306	328	312	267	184
18	413	232	227	222	254	241	272	301	327	281	244	179
19	443	237	227	222	238	230	278	295	340	300	240	192
20	420	254	220	222	229	234	281	302	314	319	293	156
21	378	227	219	225	228	281	301	306	317	336	316	126
22	395	223	219	233	227	418	274	254	329	294	325	160
23	382	219	216	235	224	382	293	256	326	286	325	154
24	354	221	217	239	224	345	324	235	322	297	321	161
25	e350	224	223	246	223	349	315	235	293	270	293	179
26	e325	222	225	247	225	364	335	e210	308	202	271	178
27	e310	220	225	257	223	355	292	e205	337	196	265	220
28	e340	222	224	258	231	344	303	e200	252	188	251	244
29	e320	231	226	238	237	337	280	e205	246	179	241	249
30	e345	240	231	237	---	358	284	e205	305	172	e228	261
31	e370	---	239	234	---	322	---	e200	---	204	e220	---
TOTAL	10860	7530	7189	7166	6641	9904	9266	8490	8542	8158	7919	6091
MEAN	350	251	232	231	229	319	309	274	285	263	255	203
MAX	443	374	252	259	254	418	373	341	340	343	325	327
MIN	310	219	216	215	217	230	272	200	163	172	197	126
AC-FT	21540	14940	14260	14210	13170	19640	18380	16840	16940	16180	15710	12080

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2000, BY WATER YEAR (WY)

MEAN	267	501	491	413	407	424	453	526	462	336	285	256
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1965 - 2000	
ANNUAL TOTAL	115199		97756			
ANNUAL MEAN	316		267		402	
HIGHEST ANNUAL MEAN					1137	1973
LOWEST ANNUAL MEAN					.000	1977
HIGHEST DAILY MEAN	449	Jul 18	443	Oct 19	2200	May 14 1966
LOWEST DAILY MEAN	216	Dec 23	126	Sep 21	.00	Sep 7 1968
ANNUAL SEVEN-DAY MINIMUM	220	Dec 20	159	Sep 20	.00	Sep 7 1968
ANNUAL RUNOFF (AC-FT)	228500		193900		290900	
10 PERCENT EXCEEDS	392		340		1040	
50 PERCENT EXCEEDS	328		253		277	
90 PERCENT EXCEEDS	231		208		.15	

e Estimated

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM

LOCATION.--Lat 33°40'50", long 106°59'34", 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 good except for estimated daily discharges, which are poor. Floodway is 1 of 2 channels (station 08358300) carrying flow in valley cross section. Prior to 1950 all flow was in floodway channel. Normal plan is for floodway to carry flow when capacity of conveyance channel (about 2,000 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, as based on weekly measurements, data provided by Bureau of Reclamation).

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, 1,470 ft^3/s, Apr. 3; Minimum daily discharge, 4.0 ft^3/s, July 27.

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	248	95	674	593	783	799	465	94	61	e255	100	72
2	220	361	634	583	824	580	462	e97	58	e240	89	85
3	200	1100	621	621	745	372	1470	e81	106	e230	79	63
4	140	879	925	625	622	550	823	e76	64	e210	53	56
5	131	795	1080	623	633	450	512	79	71	e200	56	62
6	90	1130	964	603	623	383	377	97	301	e170	56	46
7	73	1130	881	649	623	346	279	76	297	e134	41	43
8	73	1150	894	638	639	303	192	64	201	e84	45	56
9	82	1170	819	547	652	379	177	91	154	e71	30	46
10	102	1080	657	522	618	328	187	134	152	e60	35	53
11	108	958	615	595	811	236	164	147	150	e63	65	65
12	111	859	656	586	874	308	241	67	139	52	37	54
13	112	778	705	569	930	198	168	58	194	73	57	79
14	99	678	752	569	757	161	111	134	228	61	78	66
15	95	604	710	577	706	118	128	145	220	113	96	59
16	81	e625	706	564	727	102	138	172	186	101	148	71
17	67	e650	622	524	706	67	114	198	169	108	97	56
18	85	e600	622	569	825	48	136	211	142	149	58	58
19	162	788	611	620	821	33	182	200	131	125	57	56
20	422	983	510	608	764	92	200	159	167	114	81	52
21	495	918	600	586	758	282	212	151	191	104	232	48
22	516	750	645	609	745	839	179	150	e175	60	623	51
23	503	833	651	656	752	e1170	234	132	e171	e50	749	68
24	459	975	611	657	709	e1280	237	121	e164	e40	226	62
25	360	e850	608	720	786	1370	334	72	e124	e25	162	75
26	312	e950	633	742	806	e1100	234	67	e123	e10	161	101
27	218	e840	575	826	824	e800	151	97	e115	e4.0	111	131
28	195	e820	542	807	858	e720	116	75	e120	e80	81	131
29	163	e810	565	899	900	e550	93	101	e204	e65	94	88
30	133	e780	569	913	---	479	92	74	e252	e80	88	70
31	121	---	587	874	---	489	---	89	---	113	65	---
TOTAL	6176	24939	21244	20074	21821	14932	8408	3509	4830	3244.0	3950	2023
MEAN	199	831	685	648	752	482	280	113	161	105	127	67.4
MAX	516	1170	1080	913	930	1370	1470	211	301	255	749	131
MIN	67	95	510	522	618	33	92	58	58	4.0	30	43
AC-FT	12250	49470	42140	39820	43280	29620	16680	6960	9580	6430	7830	4010
(+)	33790	64410	56400	54030	56450	49260	35060	23800	26520	22610	23540	16090

CAL YR 1999 TOTAL 321500.3 MEAN 881 MAX 4840 MIN 3.8 AC-FT 637700 (+) MEAN 1197 AC-FT 866200
WTR YR 2000 TOTAL 135150.0 MEAN 369 MAX 1470 MIN 4.0 AC-FT 268100 (+) MEAN 636 AC-FT 462000

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, 34,100 mg/L, Feb. 13; minimum daily mean, 69 mg/L July 29.
SEDIMENT LOAD: Maximum daily, 85,900 tons, Feb. 13; minimum daily, 1.3 ton July 27.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
OCT											
28...	1045	189	651	105	9.1	8.3	512	18.0	14.5	--	--
NOV											
29...	1234	813	656	100	10.2	8.2	507	--	7.9	--	--
DEC											
29...	0932	587	649	99	10.7	8.2	550	--	5.0	--	--
FEB											
24...	1400	702	641	128	12.2	8.3	512	15.5	9.8	--	--
MAR											
08...	1152	298	650	--	--	8.5	517	20.5	10.0	--	--
24...	1130	1160	635	101	9.4	8.4	444	19.5	10.5	130	7
APR											
12...	1330	243	652	104	8.4	8.4	611	--	18.0	--	--
27...	1010	148	651	104	8.3	8.6	592	23.5	18.5	180	--
MAY											
04...	1500	61	646	139	9.3	8.2	534	35.0	27.0	--	--
22...	1620	146	648	145	9.9	8.9	580	31.5	26.0	--	--
JUN											
07...	1600	280	647	136	8.8	8.6	489	36.0	29.0	--	--
12...	1050	127	652	101	7.3	8.9	522	30.0	23.5	160	27
JUL											
12...	1230	50	653	113	7.1	8.8	512	32.0	31.0	--	--
AUG											
04...	1010	56	654	106	7.5	8.4	540	24.0	24.5	160	37
10...	1330	38	652	121	8.0	8.7	566	33.0	28.0	--	--
SEP											
18...	1500	56	648	--	--	8.2	726	--	28.5	--	--

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
OCT											
28...	--	--	--	--	--	--	--	--	--	--	--
NOV											
29...	--	--	--	--	--	--	--	--	--	--	--
DEC											
29...	--	--	--	--	--	--	--	--	--	--	--
FEB											
24...	--	--	--	--	--	--	--	--	--	--	--
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
24...	39.3	7.37	4.3	1	37.7	135	121	146	1	19.6	.6
APR											
12...	--	--	--	--	--	--	--	--	--	--	--
27...	54.1	9.88	5.5	2	52.8	171	--	--	--	30.9	.7
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
12...	49.6	8.99	5.3	2	44.6	171	134	137	13	21.9	.3
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
04...	50.3	9.24	4.9	2	44.4	152	128	151	2	28.6	.5
10...	--	--	--	--	--	--	--	--	--	--	--
SEP											
18...	--	--	--	--	--	--	--	--	--	--	--

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	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)
OCT											
28...	--	--	--	--	--	--	--	--	--	--	--
NOV											
29...	--	--	--	--	--	--	--	--	--	--	--
DEC											
29...	--	--	--	--	--	--	--	--	--	--	--
FEB											
24...	--	--	--	--	--	--	--	--	--	--	--
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
24...	23.6	64.7	<.20	1.2	.07	11	.020	15	.530	<.010	.100
APR											
12...	--	--	--	--	--	--	--	--	--	--	--
27...	23.9	95.9	<.20	.99	.04	--	.010	--	.420	<.010	.180
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
12...	18.7	92.7	<.20	2.0	.06	--	.010	--	<.020	<.010	.070
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
04...	20.2	91.1	<.20	1.0	.07	--	<.010	--	<.020	<.010	<.020
10...	--	--	--	--	--	--	--	--	--	--	--
SEP											
18...	--	--	--	--	--	--	--	--	--	--	--

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)
OCT										
28...	--	--	--	--	--	--	--	--	--	--
NOV										
29...	--	--	--	--	--	--	--	--	--	--
DEC										
29...	--	--	--	--	--	--	--	--	--	--
FEB										
24...	--	--	--	--	--	--	--	--	--	--
MAR										
08...	--	--	--	--	--	--	--	--	--	--
24...	.130	.840	980	273	1	<1	3.4	66	<1	78
APR										
12...	--	--	--	--	--	--	--	--	--	--
27...	.170	.500	--	379	<19	<1	6.2	63	<1	131
MAY										
04...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
JUN										
07...	--	--	--	--	--	--	--	--	--	--
12...	.070	.570	--	323	3	<1	5.6	61	<1	102
JUL										
12...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	<.010	.220	--	326	3	<1	5.1	73	<1	98
10...	--	--	--	--	--	--	--	--	--	--
SEP										
18...	--	--	--	--	--	--	--	--	--	--

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	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)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)
OCT										
28...	--	--	--	--	--	--	--	--	--	--
NOV										
29...	--	--	--	--	--	--	--	--	--	--
DEC										
29...	--	--	--	--	--	--	--	--	--	--
FEB										
24...	--	--	--	--	--	--	--	--	--	--
MAR										
08...	--	--	--	--	--	--	--	--	--	--
24...	<1.0	<.8	<1	2	<10	<1	1	<.3	5	<1
APR										
12...	--	--	--	--	--	--	--	--	--	--
27...	<1.0	<.8	<1	2	20	<1	1	<.3	6	<1
MAY										
04...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
JUN										
07...	--	--	--	--	--	--	--	--	--	--
12...	<1.0	<.8	<1	2	<10	<1	<1	<.3	6	<1
JUL										
12...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	<1.0	<.8	<1	1	<10	<1	2	<.3	6	3
10...	--	--	--	--	--	--	--	--	--	--
SEP										
18...	--	--	--	--	--	--	--	--	--	--

DATE	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD) (01028)	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS FE) (01170)
OCT										
28...	--	--	--	--	--	--	--	--	--	--
NOV										
29...	--	--	--	--	--	--	--	--	--	--
DEC										
29...	--	--	--	--	--	--	--	--	--	--
FEB										
24...	--	--	--	--	--	--	--	--	--	--
MAR										
08...	--	--	--	--	--	--	--	--	--	--
24...	<2.4	<3	<1	1	1	.1	20	5.5	120	35000
APR										
12...	--	--	--	--	--	--	--	--	--	--
27...	<2.4	<3	<1	<1	--	--	--	--	--	--
MAY										
04...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
JUN										
07...	--	--	--	--	--	--	--	--	--	--
12...	<2.4	<3	<1	<1	--	--	--	--	--	--
JUL										
12...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	<2.4	<3	<1	5	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
SEP										
18...	--	--	--	--	--	--	--	--	--	--

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L) (09511)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
28...	--	--	--	--	--	--	--	--	445	--
NOV										
29...	--	--	--	--	--	--	--	--	2610	33
DEC										
29...	--	--	--	--	--	--	--	--	1140	45
FEB										
24...	--	--	--	--	--	--	--	--	--	--
MAR										
08...	--	--	--	--	--	--	--	--	490	53
24...	10	880	.01	210	--	--	--	3	1830	55
APR										
12...	--	--	--	--	--	--	--	--	1700	--
27...	--	--	--	--	--	--	--	3	642	78
MAY										
04...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
JUN										
07...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	.10	.03	.09	3	454	97
JUL										
12...	--	--	--	--	--	--	--	--	454	97
AUG										
04...	--	--	--	--	--	--	--	2	239	94
10...	--	--	--	--	--	--	--	--	--	--
SEP										
18...	--	--	--	--	--	--	--	--	188	91

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	STREAM VELOC-ITY, MEAN (F/S) (00055)	TEMPER-ATURE WATER (DEG C) (00010)	STREAM DEPTH, MEAN (FT) (00064)	STREAM WIDTH (FT) (00004)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)
OCT										
28...	1045	189	2.31	14.5	1.8	120	445	227	50	64
NOV										
29...	1234	813	3.94	7.9	1.8	192	2610	5730	8	12
DEC										
29...	0932	587	2.21	5.0	1.9	192	1140	1810	12	19
JAN										
13...	1156	560	2.46	--	2.9	112	1670	2530	8	11
MAR										
08...	1152	298	1.91	10.0	1.6	102	490	394	22	34
APR										
12...	1330	243	1.39	18.0	2.0	112	1700	1120	60	74
MAY										
04...	1300	57	1.38	35.0	1.7	40.0	298	46	--	--
22...	1400	148	1.47	20.0	1.6	77.0	344	137	--	--
JUN										
07...	1234	278	1.78	--	2.0	120	858	644	48	53
JUL										
11...	1145	61	.74	--	1.5	63.0	192	32	40	85
AUG										
10...	1145	39	1.15	--	1.1	34.2	262	27	--	--
SEP										
14...	1300	68	1.55	--	1.2	43.0	281	52	79	86

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)
OCT									
28...	76	83	84	87	91	99	100	--	--
NOV									
29...	15	22	26	28	46	89	100	33	--
DEC									
29...	23	35	45	50	70	94	100	45	--
JAN									
13...	14	23	28	31	49	96	100	--	--
MAR									
08...	40	46	52	63	78	100	--	53	--
APR									
12...	82	88	--	96	98	99	100	--	--
MAY									
04...	--	--	--	90	95	100	--	--	--
22...	--	--	--	--	--	--	--	95	100
JUN									
07...	58	70	--	85	92	100	--	--	--
JUL									
11...	96	97	98	--	--	--	--	98	100
AUG									
10...	--	--	--	--	--	--	--	97	100
SEP									
14...	85	97	--	--	--	--	--	96	100

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	STREAM VELOC-ITY, MEAN (F/S) (00055)	TEMPER-ATURE WATER (DEG C) (00010)	STREAM DEPTH, MEAN (FT) (00064)	STREAM WIDTH (FT) (00004)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
OCT							
28...	1045	189	2.31	14.5	1.8	120	1
NOV							
29...	1234	813	3.94	7.9	1.8	192	5
DEC							
29...	0932	587	2.21	5.0	1.9	192	0
JAN							
13...	1156	560	2.46	--	2.9	112	0
MAR							
08...	1152	298	1.91	--	1.6	102	0
APR							
12...	1330	243	1.39	18.0	2.0	112	1
MAY							
04...	1300	57	1.38	35.0	1.7	40.0	2
22...	1400	148	1.47	--	1.6	77.0	3
JUN							
07...	1234	278	1.78	--	2.0	120	2
JUL							
11...	1145	61	.74	--	1.5	63.0	3
AUG							
10...	1145	39	1.15	--	1.1	34.2	0
SEP							
14...	1300	68	1.55	--	1.2	43.0	0

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	BED MAT. SIEVE DIAM. % FINER THAN .125 MM (80165)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM (80166)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM (80167)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)
OCT						
28...	16	73	99	100	--	--
NOV						
29...	14	69	100	--	--	--
DEC						
29...	3	63	99	100	--	--
JAN						
13...	3	54	98	100	--	--
MAR						
08...	4	63	99	100	--	--
APR						
12...	11	64	99	100	--	--
MAY						
04...	12	67	97	99	99	100
22...	15	68	99	100	--	--
JUN						
07...	13	73	99	100	--	--
JUL						
11...	17	81	99	100	--	--
AUG						
10...	4	66	99	100	--	--
SEP						
14...	2	63	99	100	--	--

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	657	443	326	84	9240	16800	6170	9900	13200	28900	2190	5120
2	666	398	2030	3180	8030	14200	5620	8860	16000	36300	1450	2320
3	665	360	11900	35800	3610	6330	9700	16300	20900	42400	1010	1020
4	468	178	21300	49900	9340	24100	10900	18700	14600	24500	840	1250
5	404	145	19600	42000	16800	48400	18200	30500	13100	22400	1730	2160
6	310	75	17500	53100	22000	57000	14800	24200	10600	17900	1060	1140
7	267	53	16000	48900	22000	52400	9950	17400	8270	13900	455	439
8	267	54	17200	53800	14100	33800	8140	14000	7290	12600	842	780
9	330	74	23800	74900	13100	28900	9250	13700	4820	8480	415	437
10	363	100	17400	51300	8990	16000	4420	6240	5430	9060	272	249
11	354	103	12400	32200	6690	11100	5520	8930	13200	29500	173	111
12	349	105	10900	25200	5930	10500	6660	10600	20200	47800	299	256
13	325	99	11700	24500	7710	14700	3850	5940	34100	85900	146	80
14	286	77	11000	20200	8360	17100	1580	2420	23700	49300	160	73
15	264	68	10300	16800	5900	11400	3960	6220	15200	29100	272	89
16	252	56	10900	e18100	6710	12800	4000	6090	13400	26400	287	78
17	221	40	18300	e29800	16400	27500	3760	5310	14300	27300	261	47
18	257	61	14000	e22800	22400	37500	5540	8560	17700	39700	223	29
19	422	196	24600	52800	7830	12900	11000	18500	25200	55600	270	24
20	1560	1860	27400	72700	4110	5690	10400	17000	23300	48000	2670	989
21	2400	3210	25300	64400	8160	13400	10300	16300	24800	50700	9170	7340
22	2480	3460	11200	23100	11200	19600	11100	18300	18300	36900	11200	25400
23	1940	2610	5990	13900	11000	19400	16700	29600	2440	4940	4820	e14900
24	1840	2290	10000	26300	10200	16900	17600	31200	2300	4410	2030	e7050
25	1220	1200	6680	e20500	9300	15300	16300	31700	1990	4220	2480	9320
26	839	707	1810	e12800	8190	14000	25400	51000	2030	4430	2770	e8520
27	642	383	5340	e21700	6310	9830	25000	55800	1430	3190	3320	e7820
28	332	176	8850	e26300	3300	4820	31900	69400	1240	2870	4480	e8940
29	353	156	1810	e12900	1830	2790	22300	54000	1650	4020	2680	e4230
30	309	111	9540	e21700	5040	7730	22900	56400	---	---	720	e935
31	274	89	---	---	7610	12100	25400	59700	---	---	664	877
TOTAL	---	18937	---	971664	---	594990	---	722770	---	770720	---	112023

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MEAN CONC TRAT (MG/	LOAD (TONS/ DAY)	MEAN CONCEN TRATIO (MG/L)	LOAD (TON 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 TRATIO (MG/L)	LOAD (TON DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	663	831	874	223	254	43	775	e569	705	201	708	138
2	700	873	680	e182	260	41	2160	e1630	434	108	1080	252
3	7010	32700	431	e94	507	156	3810	e2370	405	88	522	91
4	4230	9690	439	e91	1210	227	3410	e1940	272	40	367	56
5	2600	3740	545	118	764	152	2520	e1400	314	48	466	78
6	533	545	806	212	2060	1720	1300	e601	314	49	402	50
7	378	285	1060	214	1800	1470	2200	e937	175	20	247	30
8	282	147	1270	220	1420	781	3520	e848	210	26	269	42
9	303	145	1050	258	1220	512	1150	e222	140	12	286	36
10	399	203	1120	412	1070	446	812	e138	206	20	273	39
11	371	175	1230	508	804	329	594	e102	1000	175	360	67
12	1190	793	670	124	751	284	481	68	1060	106	332	49
13	1260	563	542	88	1070	562	632	126	1980	311	442	96
14	1200	361	729	264	1010	624	316	55	2890	621	308	55
15	1270	440	761	298	1040	617	896	276	3800	999	244	39
16	1010	380	720	334	591	297	823	226	4960	2020	355	69
17	926	283	819	440	493	227	942	277	2950	860	223	34
18	1160	440	716	408	460	178	1010	414	2780	436	222	35
19	1220	615	652	352	382	135	616	209	754	113	216	33
20	995	555	777	334	583	292	459	142	528	121	214	30
21	839	485	747	304	1360	710	401	113	1010	792	206	27
22	556	276	553	225	667	316	360	59	2120	3680	238	33
23	900	570	594	211	509	e238	340	e47	2750	5740	270	51
24	890	572	583	193	563	e247	258	e28	2000	1220	249	44
25	1290	1170	438	86	446	e152	166	e11	2030	890	392	80
26	897	573	337	62	386	e128	124	e3.3	2020	879	483	137
27	659	274	408	107	332	e103	122	e1.3	1990	596	584	207
28	495	155	366	74	317	e104	88	e20	1260	290	507	181
29	533	134	394	108	401	e230	69	e15	1310	351	349	84
30	622	155	321	65	624	e422	1040	e305	924	222	283	54
31	---	---	332	80	---	---	1840	e577	939	165	---	---
TOTAL	---	58128	---	6689	---	11743	---	13729.6	---	21199	---	2217
YEAR		3304809.6										

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, 1,739,300 acre-ft, Feb. 7, gage height, 4,397.55 ft; minimum contents, 1,198,900 acre-ft, Sept. 30, gage height, 4,378.28 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1635600	1622800	1667200	1709100	1739300	1676000	1621000	1563300	1515400	1426400	1348500	1261200
2	1635600	1622800	1669700	1710100	1735700	1674700	1619100	1563300	1509700	1425800	1344800	1259200
3	1635300	1623400	1670300	1711400	1731800	1672800	1619100	1563000	1505700	1424700	1341100	1258200
4	1635300	1625200	1671000	1712300	1728300	1671000	1619700	1562100	1504500	1424200	1338500	1256200
5	1635300	1627100	1672200	1713600	1724500	1668500	1618500	1560900	1500500	1422000	1336900	1253700
6	1632900	1628900	1674100	1715200	1720900	1666600	1616700	1559700	1498200	1419800	1330600	1250100
7	1629500	1630700	1676000	1716500	1717400	1663500	1614300	1558000	1494800	1418100	1326400	1248100
8	1626400	1632900	1678800	1717700	1713900	1661000	1611800	1556800	1489700	1414800	1323300	1244700
9	1623400	1635300	1680700	1719000	1710400	1659700	1608800	1556200	1485700	1412600	1319100	1241700
10	1620600	1636300	1681300	1719700	1707500	1658500	1607000	1555000	1482300	1409300	1315200	1238200
11	1618200	1638700	1683500	1720900	1705000	1655400	1605200	1552700	1480000	1407700	1312300	1235700
12	1615500	1639900	1684800	1722900	1703700	1653500	1602100	1553600	1477200	1404400	1310800	1233700
13	1613300	1641800	1685400	1724800	1702500	1651100	1599700	1551500	1473200	1402800	1305600	1230700
14	1611200	1643600	1687300	1726400	1701200	1649200	1596700	1549700	1470400	1399500	1305100	1228300
15	1610900	1644900	1688500	1727000	1699900	1646700	1594300	1549100	1468200	1396300	1302500	1226800
16	1611200	1646100	1689500	1729000	1698700	1643600	1591900	1546800	1462500	1394600	1298900	1225800
17	1610600	1647300	1690400	1729600	1696400	1641800	1589500	1545600	1459700	1392500	1296300	1223800
18	1610000	1648900	1691700	1731200	1694500	1638700	1587100	1545000	1457200	1391400	1294300	1222400
19	1610600	1650700	1694500	1732500	1693000	1635000	1585300	1543900	1454700	1389200	1292700	1220900
20	1611500	1651100	1694900	1734400	1691100	1631300	1583500	1541500	1450500	1386000	1290700	1219400
21	1612400	1652300	1695500	1734400	1689200	1628300	1579900	1540400	1448000	1382700	1288100	1216500
22	1614300	1653500	1697700	1734400	1687300	1630100	1577500	1537400	1445500	1381100	1285000	1215000
23	1615500	1655100	1697700	1735100	1685400	1632000	1576400	1536300	1443000	1381100	1284000	1213500
24	1617000	1656000	1699300	1735100	1686600	1632000	1575200	1534000	1441300	1378400	1282000	1212600
25	1618800	1657300	1700600	1735700	1686000	1631300	1573400	1529900	1439700	1375700	1278400	1210600
26	1619400	1659100	1701800	1736400	1683500	1630700	1571600	1527000	1436900	1370400	1275900	1208600
27	1620300	1661000	1702800	1735700	1682200	1630700	1569800	1525200	1435800	1366600	1272800	1206200
28	1621600	1663200	1704400	1736400	1680400	1630100	1566800	1523500	1434100	1362900	1270300	1204300
29	1621600	1665000	1705600	1737000	1678500	1628300	1566300	1521200	1431900	1359200	1268800	1201400
30	1621600	1666300	1707200	1737000	---	1625800	1565700	1518900	1429700	1356000	1267300	1198900
31	1622200	---	1708200	1738300	---	1623400	---	1516000	---	1351700	1264200	---
MAX	1635600	1666300	1708200	1738300	1739300	1676000	1621000	1563300	1515400	1426400	1348500	1261200
MIN	1610000	1622800	1667200	1709100	1678500	1623400	1565700	1516000	1429700	1351700	1264200	1198900
(+)	4393.82	4395.25	4396.58	4397.52	4395.64	4393.86	4391.94	4390.24	4387.18	4384.30	4380.92	4378.28
(++)	-13400	+44100	+41900	+30100	-59800	-55100	-57700	-49700	-86300	-78000	-87500	-65300

CAL YR 1999 MAX 1756100 MIN 587700 (++) +10,200
WTR YR 2000 MAX 1739300 MIN 1198900 (++) -436,700

(+) Gage height, 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 except for estimated daily discharges, which are poor. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	494	16	7.2	e6.5	2110	1630	1630	716	1540	1500	2090	1510
2	472	15	7.6	e6.3	2750	1630	1640	490	1530	1420	2100	1300
3	485	15	7.4	e6.1	2710	1620	1640	723	1530	1510	2090	1170
4	482	16	7.2	e6.0	2830	1620	1650	708	1530	1530	1430	1590
5	1120	16	7.2	e5.8	2100	1630	1640	709	1520	1460	2090	1600
6	1500	16	7.1	e5.7	2080	1640	1660	719	1970	1090	2090	1610
7	1560	16	7.4	e5.6	2720	1630	1650	725	2180	1510	1730	1610
8	1560	16	7.2	5.3	2360	1640	1630	720	2090	1510	2100	1620
9	1550	e8.0	7.2	5.2	2070	1640	1630	723	2100	1500	2090	1640
10	1540	e5.7	7.2	5.2	2060	1640	1620	723	1480	1510	2090	1660
11	1550	e5.8	7.0	5.2	1990	1630	1610	725	1480	1510	2100	1660
12	1540	e6.0	7.2	5.1	1700	1630	1610	724	1890	1510	2090	1420
13	1530	5.7	7.2	5.1	1670	1630	1590	722	2000	1520	2090	1690
14	558	5.6	7.0	5.2	1490	1640	1480	721	2130	1510	1700	1390
15	16	6.1	6.7	5.1	1690	1650	1420	720	2080	1430	1500	825
16	15	7.5	6.9	5.0	1680	1660	1440	716	1980	1490	1510	826
17	14	6.0	7.2	5.1	1670	1660	1460	708	1410	1500	1500	838
18	13	6.2	6.9	5.0	1670	1520	1480	711	1470	1500	1490	847
19	8.5	6.0	6.9	6.0	1650	1660	1480	1330	1480	1420	1490	857
20	3.5	6.6	6.8	408	1670	1670	1500	1640	2050	1460	1490	868
21	10	6.4	7.0	634	1660	1660	1510	1620	2070	1370	1500	877
22	13	6.6	6.9	634	1660	1600	1510	1600	2100	1480	1310	886
23	13	6.7	6.9	634	583	1670	1520	1590	2070	70	1430	894
24	13	6.7	6.9	643	618	1650	1510	1570	1480	941	1720	894
25	13	7.0	6.8	653	1630	1660	1520	1570	1490	2110	2120	906
26	15	6.8	7.1	669	1620	1680	1520	1570	1370	2120	1730	930
27	16	7.2	7.1	628	1630	1650	1520	1560	1130	2140	1540	1450
28	16	7.0	6.8	583	1640	1640	1240	1560	1470	2130	1320	1720
29	16	7.2	6.7	582	1640	1640	733	1550	1480	2090	1490	1690
30	16	7.3	6.6	583	---	1650	728	1550	1480	2100	1290	1680
31	16	---	6.6	587	---	1680	---	1550	---	2090	1290	---
TOTAL	16168.0	270.1	217.9	7342.5	53351	50850	44771	32963	51580	48031	53600	38458
MEAN	522	9.00	7.03	237	1840	1640	1492	1063	1719	1549	1729	1282
MAX	1560	16	7.6	669	2830	1680	1660	1640	2180	2140	2120	1720
MIN	3.5	5.6	6.6	5.0	583	1520	728	490	1130	70	1290	825
AC-FT	32070	536	432	14560	105800	100900	88800	65380	102300	95270	106300	76280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 2000, BY WATER YEAR (WY)

MEAN	336	258	305	331	741	1190	1527	1600	1830	1734	1406	801
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1917 - 2000	
ANNUAL TOTAL	370361.2		397602.5			
ANNUAL MEAN	1015		1086		1006	
HIGHEST ANNUAL MEAN					2665	1942
LOWEST ANNUAL MEAN					253	1964
HIGHEST DAILY MEAN	2240	Jun 1	2830	Feb 4	8220	May 22 1942
LOWEST DAILY MEAN	3.5	Oct 20	3.5	Oct 20	.00	Nov 2 1916
ANNUAL SEVEN-DAY MINIMUM	5.7	Jan 1	5.1	Jan 12	.00	Nov 2 1916
ANNUAL RUNOFF (AC-FT)	734600		788600		728700	
10 PERCENT EXCEEDS	2120		2060		2090	
50 PERCENT EXCEEDS	1390		1480		1010	
90 PERCENT EXCEEDS	7.0		6.7		5.6	

e Estimated

08362000 CABALLO RESERVOIR NEAR ARREY, NM

LOCATION.--Lat 32°53'47", long 107°17'30", in SE$^1/_4$SW$^1/_4$ 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, 128,700 acre-ft, Mar. 10, gage height, 4,158.74 ft; minimum contents, 30,650 acre-ft, Sept. 27, gage height, 4,138.86 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37220	36850	39770	42450	53360	127310	117990	119050	73670	71600	45050	39200
2	35900	36850	39960	42450	58510	128280	118120	117200	72680	71990	45250	39200
3	34570	36970	40150	42650	63650	128420	118250	115230	71310	72480	45540	38880
4	33100	37100	40210	42650	68910	128350	119050	113420	70540	72880	45050	38880
5	32330	37220	40280	42710	73070	128280	119840	111810	69870	72880	45110	38380
6	31700	37340	40340	42850	76880	128000	120650	110220	69960	71990	45150	38010
7	32110	37460	40410	42850	81810	128000	121450	108640	70640	71410	44980	37830
8	32140	37640	40470	42920	86160	128280	121580	106890	71120	70640	45540	37700
9	31920	37770	40470	42980	89930	128560	121990	105340	71900	69870	46170	37640
10	31570	37890	40470	43050	93670	128700	122530	103140	71310	68910	46740	37580
11	31220	38010	40600	43190	97160	128420	123070	101080	70640	67740	47240	37520
12	31190	38070	40670	43250	100120	128000	122800	99400	70350	66110	47610	37160
13	31620	38130	40730	43320	102890	127730	122800	97270	70830	64740	48050	37100
14	33330	38320	40830	43390	105400	127030	122930	95750	70930	63470	47970	37130
15	33770	38380	40890	43530	107950	125660	122930	94130	71220	62140	47540	36670
16	34110	38440	40960	43600	110220	124700	122660	91960	70730	61090	46460	36380
17	34400	38510	41020	43660	112520	123610	122660	90150	68720	59960	45820	36080
18	34680	38630	41090	43730	114710	122390	122120	88480	68910	58770	45540	35780
19	34800	38690	41190	43870	116800	120650	121450	86930	69200	56920	45400	35260
20	34910	38760	41250	43530	118250	119440	120780	86380	70060	54600	45180	34740
21	35030	38820	41520	43530	119710	119180	120780	85950	70540	52340	44910	34060
22	35260	39070	41580	43800	121380	119180	121180	85400	70830	50500	44070	33550
23	35370	39200	41580	44010	121380	119050	121720	84640	71410	47390	43190	32990
24	35550	39230	41710	44420	121320	119050	122260	83460	70730	44560	42510	32660
25	35720	39290	41780	44910	122800	119180	122530	82290	69960	44210	42650	31840
26	35840	39350	41910	45680	124020	119250	122800	81340	70350	43870	42650	31080
27	36080	39420	42050	46460	125520	119180	123070	79970	70350	43870	41650	30650
28	36200	39510	42110	47320	126210	119050	123070	78570	70250	43830	40730	31410
29	36430	39540	42210	48340	126480	118520	121720	77390	70540	43800	40540	32500
30	36490	39770	42250	49450	---	117720	120650	75970	71020	44070	39320	33890
31	36610	---	42310	50500	---	117850	---	74460	---	44630	38820	---
MAX	37220	39770	42310	50500	126480	128700	123070	119050	73670	72880	48050	39200
MIN	31190	36850	39770	42450	53360	117720	117990	74460	68720	43800	38820	30650
(+)	4140.15	4141.54	4142.40	4145.08	4159.32	4158.04	4158.46	4150.54	4149.84	4143.46	4141.70	4140.04
(++)	-1830	+3160	+2540	+8190	+75980	-8630	+2800	-46190	-3440	-26390	-5810	-4930

CAL YR 1999 MAX 78210 MIN 31190 (++) +730
WTR YR 2000 MAX 128700 MIN 30650 (++) -4,550

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

08362500 RIO GRANDE BELOW CABALLO DAM, NM

LOCATION.--Lat 32°53'05", long 107°17'31", in NE$^1/_4$SW$^1/_4$ sec.30, T.16 S., R.4 W., Sierra County, Hydrologic Unit 13030102, on left bank 2,000 ft upstream from Interstate Highway 25, 4,200 ft downstream from Caballo Dam, 1.2 mi downstream from Apache Canyon, 1.3 mi upstream from Percha diversion dam, 3 mi northeast of Arrey, 5 mi south of Caballo, and at mile 1,355.6.

DRAINAGE AREA.--30,700 mi^2, approximately, including 2,940 mi^2 in closed basin in San Luis Valley, CO.

PERIOD OF RECORD.--January 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,140.9 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 7, 1938, at datum 7.0 ft higher, Oct. 7-12, 1938, at datum 6.0 ft higher, and Oct. 13, 1938, to Dec. 31, 1945, at datum 5.0 ft higher than present datum.

REMARKS.--Flow regulated by Caballo Reservoir (station 08362000), capacity, 331,500 acre-ft, 1981 survey and Elephant Butte Reservoir (station 08360500), capacity, 2,065,000 acre-ft, 1988 survey. Diversions for irrigation of about 800,000 acres upstream from station. Figures of daily discharge do not include Bonita ditch, which diverts from Caballo Dam and bypasses station for irrigation downstream. See monthly table below for record of ditch. Bureau of Reclamation satellite telemeter at station.

COOPERATION.--Records provided by Bureau of Reclamation.

AVERAGE DISCHARGE.--62 years, 936 ft^3/s, 678,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 7,650 ft^3/s, May 20, 1942; minimum daily, 0.1 ft^3/s, Oct. 31 to Nov. 14, 1954, Nov. 7 to Dec. 31, 1955, Feb. 15-29, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,470 ft^3/s, July 22; minimum daily 1.0 ft^3/s, Dec. 7 to Jan. 3.

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	1200	4.0	4.0	1.0	3.0	1040	1360	1260	1870	1180	1880	1280
2	1170	4.0	4.0	1.0	3.0	1040	1370	1430	2000	1180	1950	1290
3	1160	4.0	4.0	1.0	3.0	1250	1300	1680	2040	1180	2010	1280
4	1140	4.0	4.0	2.0	3.0	1480	1140	1600	1890	1280	1890	1500
5	1190	4.0	4.0	2.0	2.0	1490	1130	1430	1880	1460	1940	1710
6	1260	4.0	4.0	2.0	2.0	1520	1200	1380	1850	1470	1940	1720
7	1260	4.0	1.0	3.0	2.0	1510	1250	1380	1810	1610	1890	1640
8	1350	4.0	1.0	3.0	2.0	1390	1310	1440	1740	1860	1780	1560
9	1440	4.0	1.0	3.0	2.0	1350	1320	1600	1690	1860	1780	1570
10	1550	4.0	1.0	3.0	2.0	1470	1330	1730	1770	1900	1780	1570
11	1600	4.0	1.0	3.0	2.0	1680	1370	1690	1800	2090	1780	1570
12	1470	4.0	1.0	3.0	2.0	1730	1480	1560	1800	2230	1860	1580
13	1250	4.0	1.0	3.0	2.0	1730	1480	1540	1920	2180	1860	1570
14	794	4.0	1.0	3.0	2.0	1880	1370	1540	2010	2090	1860	1440
15	12	4.0	1.0	3.0	86	2100	1360	1540	2010	2080	1880	1160
16	8.0	4.0	1.0	3.0	202	2080	1370	1580	2210	2070	1950	966
17	6.0	4.0	1.0	2.0	206	2020	1400	1590	2420	2060	1870	948
18	6.0	4.0	1.0	2.0	222	2060	1600	1570	1270	2210	1640	942
19	4.0	4.0	1.0	2.0	425	2070	1740	1620	1350	2360	1620	976
20	4.0	4.0	1.0	198	511	2090	1580	1670	1570	2390	1610	1050
21	4.0	4.0	1.0	512	520	2060	1260	1670	1870	2420	1620	1080
22	4.0	4.0	1.0	512	522	1830	1080	1670	1970	2470	1670	1020
23	4.0	4.0	1.0	512	626	1630	1080	1800	1840	2390	1740	1020
24	4.0	4.0	1.0	384	725	1600	1050	2010	1840	2250	1760	1010
25	4.0	4.0	1.0	317	713	1520	1120	2010	1840	2210	1890	1090
26	4.0	4.0	1.0	293	719	1520	1200	1900	1830	2240	2010	1160
27	4.0	4.0	1.0	206	722	1520	1200	1980	1430	2200	2010	1150
28	4.0	4.0	1.0	156	1160	1620	1290	2040	1600	2190	1950	1150
29	4.0	4.0	1.0	7.0	1190	1840	1360	2020	1470	2290	1890	1030
30	4.0	4.0	1.0	4.0	---	1950	1350	1910	1240	1970	1720	903
31	4.0	---	1.0	3.0	---	1570	---	1870	---	1780	1430	---
TOTAL	17918.0	120.0	49.0	3149.0	8581.0	51640	39450	51710	53830	61150	56460	37935
MEAN	578	4.00	1.58	102	296	1666	1315	1668	1794	1973	1821	1264
MAX	1600	4.0	4.0	512	1190	2100	1740	2040	2420	2470	2010	1720
MIN	4.0	4.0	1.0	1.0	2.0	1040	1050	1260	1240	1180	1430	903
AC-FT	35540	238	97	6250	17020	102400	78250	102600	106800	121300	112000	75240
(+)	24	0	0	0	103	115	91	122	122	172	154	110

CAL YR 1999 TOTAL 370772.0 MEAN 1016 MAX 2550 MIN 1.0 AC-FT 735400
WTR YR 2000 TOTAL 381992.0 MEAN 1044 MAX 2470 MIN 1.0 AC-FT 757700

(+) Diversion, in acre-feet, by Bonita Ditch; diverts directly from Caballo Dam and this diversion is not included in the river records

08364000 RIO GRANDE AT EL PASO, TX

(National stream-quality accounting network
and National Water-Quality Assessment Program Station)

WATER-QUALITY RECORDS

LOCATION.--Lat 31°48'10", long 106°32'25", El Paso County, Hydrologic Unit 13030102, on downstream side of first pier from left abutment of Courchesne Bridge at El Paso, 1.7 mi upstream from American Dam, 5.6 mi upstream from Santa Fe Street-Juarez Avenue Bridge between El Paso and Cd. Juarez, Chihuahua, and at mile 1,249.

DRAINAGE AREA.--32,207 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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
OCT												
13...	0820	826	665	91	7.5	8.4	1040	13.0	18.0	240	48	70.3
NOV												
23...	0900	147	668	97	10.0	8.4	1870	10.0	8.0	370	120	104
MAR												
22...	0920	1030	660	92	9.0	8.1	841	10.5	10.0	190	40	54.6
MAY												
04...	1640	685	659	128	8.9	8.4	1060	33.5	26.0	230	74	67.6
31...	0940	1090	660	94	6.8	8.3	944	26.5	24.0	220	53	62.9
JUN												
22...	0850	1070	662	97	6.9	8.3	986	26.0	25.0	230	50	65.5
JUL												
14...	1000	1090	668	101	7.0	8.4	936	25.5	27.0	210	42	60.5
AUG												
02...	0740	864	664	95	6.7	7.8	1050	25.0	25.5	220	60	62.9
18...	0840	1160	672	97	7.1	8.3	863	26.5	24.5	200	40	57.2
SEP												
06...	0920	809	664	108	7.8	8.4	967	32.5	24.5	230	61	66.5

DATE	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)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
OCT												
13...	14.5	7.4	3	118	193	188	222	4	97.1	.7	16.6	195
NOV												
23...	25.7	10.3	5	241	253	243	272	12	226	.6	22.6	414
MAR												
22...	12.6	5.7	3	91.4	164	149	182	0	78.1	.7	12.1	153
MAY												
04...	15.7	8.0	3	122	184	168	186	5	97.2	.6	12.8	201
31...	14.6	7.2	3	108	190	172	197	2	81.5	<.1	11.2	173
JUN												
22...	15.1	7.8	3	114	181	176	195	10	85.3	.7	13.8	190
JUL												
14...	14.2	7.5	3	112	168	167	185	10	78.8	.6	14.6	167
AUG												
02...	15.1	7.1	3	117	164	160	195	0	102	.7	16.4	194
18...	13.8	6.8	3	99.0	165	160	195	0	70.4	.6	14.0	156
SEP												
06...	15.1	8.1	3	106	179	177	195	5	83.1	.7	15.3	176

08364000 RIO GRANDE AT EL PASO, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	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)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
OCT												
13...	.22	.27	.034	.441	<.010	.063	.054	.066	3.5	3.4	670	636
NOV												
23...	.57	.88	.148	1.26	.054	.090	.077	.226	3.6	.9	1230	1200
MAR												
22...	.30	.93	.053	.293	<.010	.062	.041	.359	3.5	2.0	526	500
MAY												
04...	.33	.79	.064	.109	.011	E.037	.032	.200	3.5	1.4	652	623
31...	.29	.97	.108	.169	<.010	<.050	.038	.323	3.0	.6	575	560
JUN												
22...	.24	.91	<.020	.254	.014	E.033	.029	.316	2.8	1.5	620	600
JUL												
14...	.25	1.0	<.020	.300	<.010	E.042	.047	.385	3.5	--	574	558
AUG												
02...	.22	.94	<.020	.330	<.010	<.050	.013	.243	3.6	1.3	634	614
18...	.27	.76	.024	.283	<.010	<.050	.025	.236	3.2	.7	529	516
SEP												
06...	.26	.75	.034	.314	<.010	E.037	.028	.194	3.1	1.4	605	574

DATE	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	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)	LEAD, DISSOLVED (UG/L AS PB) (01049)
OCT												
13...	3	<1	2.8	82	<1	179	<1.0	<.8	<1	2	<10	<1
NOV												
23...	3	<1	3.6	96	<1	312	<1.0	<.8	<1	2	<10	<1
MAR												
22...	3	<1	2.7	64	<1	153	<1.0	<1.0	<1	2	<10	<1
MAY												
04...	18	<1	3.4	69	<1	196	<1.0	<.8	<1	2	E10	<1
31...	<14	<1	3.3	72	<1	176	<1.0	<.8	<1	1	<10	<1
JUN												
22...	26	<1	4.6	77	<1	178	<1.0	<.8	<1	2	<10	<1
JUL												
14...	3	<1	3.7	82	<1	171	<1.0	<.8	<1	2	<10	<1
AUG												
02...	6	<1	4.3	79	<1	192	<1.0	<.8	<1	2	<10	<1
18...	3	<1	3.3	73	<1	168	<1.0	E.4	<1	2	<10	<1
SEP												
06...	2	<1	3.9	83	<1	168	<1.0	<.8	<1	2	<10	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	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)
OCT												
13...	97.2	3	8	2	<2.4	<1	846	<10	2	<.003	<.002	<.002
NOV												
23...	192	25	12	3	<2.4	<1	1450	<10	5	<.003	<.002	<.002
MAR												
22...	80.9	6	8	<1	<2.4	<1	712	<10	2	<.003	<.002	<.002
MAY												
04...	106	5	9	6	<2.4	<1	887	<10	5	<.003	<.002	<.002
31...	96.5	<1	9	3	<2.4	<1	833	E7	<3	<.003	<.002	<.002
JUN												
22...	99.5	2	9	2	<2.4	<1	861	E6	3	<.003	<.002	<.002
JUL												
14...	93.8	<1	8	<1	<2.4	<1	786	E5	2	<.003	<.002	<.002
AUG												
02...	99.7	2	9	<1	<2.4	<1	846	<10	5	<.003	<.002	<.002
18...	87.1	<1	8	<1	<2.4	<1	760	<10	2	<.003	<.002	<.002
SEP												
06...	87.6	<1	8	<1	<2.4	<1	855	E5	2	<.003	<.002	<.002

08364000 RIO GRANDE AT EL PASO, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)
OCT												
13...	<.002	.008	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001
NOV												
23...	<.002	<.001	<.002	<.002	<.003	<.003	<.004	<.004	E.002	<.002	.017	<.001
MAR												
22...	<.002	E.003	<.002	<.002	<.003	<.003	<.004	.008	E.002	<.002	E.002	<.001
MAY												
04...	<.002	E.002	<.002	<.002	<.003	<.003	<.004	<.004	E.001	<.002	.012	<.001
31...	<.002	<.001	<.002	<.002	E.026	<.003	E.002	<.004	<.002	<.002	<.002	<.001
JUN												
22...	<.002	.005	<.002	<.002	<.003	<.003	<.004	.008	<.002	<.002	E.001	<.001
JUL												
14...	<.002	<.001	<.002	<.002	<.003	<.003	<.004	.008	<.002	<.002	<.002	<.001
AUG												
02...	<.002	.004	<.002	<.002	<.003	<.007	.047	<.004	<.002	<.002	<.002	<.001
18...	<.002	<.003	<.002	<.002	E.004	<.009	E.003	.005	<.002	<.002	E.004	<.001
SEP												
06...	<.002	<.001	<.002	<.002	<.003	<.003	E.003	<.004	<.002	<.002	E.002	<.001

DATE	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
OCT												
13...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	.227	<.001	<.006	<.002	<.004
NOV												
23...	<.017	<.030	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.006	<.004
MAR												
22...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	E.002	<.004
MAY												
04...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	E.004	<.004
31...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.005	<.006	.006	<.004
JUN												
22...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.007	<.004
JUL												
14...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	E.004	<.001	<.006	.007	<.004
AUG												
02...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	.006	<.004
18...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	E.005	<.001	<.006	.005	<.004
SEP												
06...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	E.004	<.001	<.006	E.003	<.004

DATE	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
OCT												
13...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
NOV												
23...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
MAR												
22...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.005	<.003	<.007	<.004
MAY												
04...	<.004	<.003	E.002	<.004	<.004	<.004	<.005	<.002	E.005	<.003	<.007	<.004
31...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.013	<.003	<.007	<.004
JUN												
22...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.010	<.003	<.007	<.004
JUL												
14...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
AUG												
02...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
18...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.015	<.003	<.007	<.004
SEP												
06...	<.004	<.003	E.002	<.004	<.004	<.004	<.005	<.002	E.008	<.003	<.007	<.004

08364000 RIO GRANDE AT EL PASO, TX--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT											
13...	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	4	373	79
NOV											
23...	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	5	81	55
MAR											
22...	<.013	E.003	E.009	<.007	<.013	<.002	<.001	<.002	3	612	62
MAY											
04...	<.013	<.005	E.006	<.007	<.013	<.002	<.001	<.002	3	210	66
31...	<.013	<.005	E.008	<.007	<.013	<.002	<.001	<.002	3	394	76
JUN											
22...	<.013	E.005	E.008	<.007	<.013	<.002	<.001	<.002	4	486	86
JUL											
14...	<.013	<.005	.012	<.007	<.013	<.002	<.001	E.004	4	473	85
AUG											
02...	<.013	<.005	E.008	<.007	<.013	<.002	<.001	<.002	4	280	91
18...	<.013	<.005	E.008	<.007	<.013	<.002	<.001	<.002	3	276	54
SEP											
06...	<.013	E.003	E.005	<.007	<.013	<.002	<.001	<.002	4	196	86

08377900 RIO MORA NEAR TERRERO, NM

LOCATION.--Lat 35°46'38, long 105°39'27", in SW$^1/_4$NE$^1/_4$ 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 estimated daily discharges, which are poor. About 90 percent of the drainage is in the Pecos Wilderness Area and not subject to development, watershed management, or the building of highways; there is limited cattle grazing by permit.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since 1886 probably occurred Sept. 29, 1904 (based on statement for Pecos River near Pecos and history of that flood period).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	6.1	e5.7	e4.5	e5.8	e6.4	9.8	68	20	8.8	18	17
2	12	5.2	e6.1	e4.4	e6.0	e6.0	9.6	63	22	7.4	17	17
3	12	5.4	e5.7	e4.0	e5.9	e5.9	9.4	73	25	9.4	15	16
4	11	5.0	e5.0	e3.7	e6.0	e6.0	9.0	87	20	6.8	16	15
5	11	5.0	e4.8	e3.5	e6.2	e7.2	13	104	19	5.9	15	14
6	12	5.1	e4.5	e3.9	e7.0	e7.1	18	101	17	6.2	15	13
7	12	5.0	e5.2	e3.8	e6.4	e6.4	20	90	17	11	16	13
8	12	4.7	e5.8	e4.0	e5.8	e6.0	22	91	17	23	15	14
9	11	5.0	e5.4	e4.1	e5.6	e6.4	21	84	16	16	13	13
10	10	3.6	e4.9	e4.5	e6.8	e7.0	24	81	15	17	12	12
11	9.8	4.6	e5.6	e4.7	e7.1	e7.4	25	80	13	15	12	11
12	9.3	4.3	e5.0	e4.8	e6.2	e6.7	21	74	12	20	12	11
13	9.1	4.1	e4.6	e4.9	e5.5	e6.6	25	65	11	24	12	11
14	8.9	4.2	e5.2	e4.6	e5.7	e7.0	28	59	10	31	11	10
15	8.7	4.3	e6.1	e4.4	e5.9	e7.6	30	53	9.9	25	11	10
16	8.5	4.6	e6.0	e4.7	e6.1	e8.0	24	50	9.1	39	10	11
17	9.1	e5.3	e5.7	e4.8	e6.3	e7.8	25	46	9.4	38	13	10
18	8.5	e5.2	e5.3	e4.6	e6.2	e7.5	30	42	9.0	33	41	10
19	10	e5.3	e5.0	e4.1	e6.5	e7.8	36	40	16	37	64	10
20	8.5	e5.0	e4.7	e3.9	e6.6	e8.1	26	38	11	33	36	9.9
21	8.8	e5.4	e4.1	e4.3	e6.5	e7.8	29	35	9.1	29	29	10
22	8.5	e5.6	e4.5	e4.1	e6.8	e9.0	27	32	9.5	25	27	14
23	8.1	e5.7	e5.0	e4.4	e7.6	e9.7	28	30	12	24	25	11
24	7.6	e6.0	e5.3	e4.7	e8.8	11	31	29	8.5	22	27	10
25	7.3	e6.3	e5.1	e4.8	e7.2	12	40	29	7.5	21	24	10
26	7.0	e5.9	e4.5	e4.4	e5.9	13	47	28	7.0	22	23	10
27	7.0	e6.1	e4.7	e4.2	e5.7	15	60	26	7.1	22	22	10
28	6.5	e6.4	e4.9	e4.6	e5.9	16	76	25	9.5	21	21	10
29	6.6	e6.7	e4.6	e4.2	e6.1	13	89	24	12	22	21	10
30	5.2	e6.5	e4.4	e3.8	---	13	89	22	13	22	19	10
31	6.0	---	e4.8	e4.9	---	12	---	21	---	21	18	---
TOTAL	284.0	157.6	158.2	134.3	184.1	270.4	941.8	1690	393.6	657.5	630	352.9
MEAN	9.16	5.25	5.10	4.33	6.35	8.72	31.4	54.5	13.1	21.2	20.3	11.8
MAX	12	6.7	6.1	4.9	8.8	16	89	104	25	39	64	17
MIN	5.2	3.6	4.1	3.5	5.5	5.9	9.0	21	7.0	5.9	10	9.9
AC-FT	563	313	314	266	365	536	1870	3350	781	1300	1250	700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

MEAN	14.5	10.8	7.11	6.04	6.52	12.5	35.5	129	88.7	30.2	45.2	27.2
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	14257.4		5854.4			
ANNUAL MEAN	39.1		16.0		34.5	
HIGHEST ANNUAL MEAN					65.3	1973
LOWEST ANNUAL MEAN					11.6	1974
HIGHEST DAILY MEAN	330	May 24	104	May 5	755	Jun 8 1997
LOWEST DAILY MEAN	3.6	Nov 10	3.5	Jan 5	.90	Jan 12 1964
ANNUAL SEVEN-DAY MINIMUM	4.2	Nov 10	3.9	Jan 3	.97	Jan 10 1964
INSTANTANEOUS PEAK FLOW			130	May 5	937	May 22 1991
INSTANTANEOUS PEAK STAGE			2.20	May 5	4.15	Jun 8 1979
INSTANTANEOUS LOW FLOW			1.9	Nov 10	.90	Jan 12 1964
ANNUAL RUNOFF (AC-FT)	28280		11610		25020	
10 PERCENT EXCEEDS	111		32		84	
50 PERCENT EXCEEDS	13		9.8		14	
90 PERCENT EXCEEDS	5.2		4.6		5.0	

e Estimated

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 estimated daily discharges, which are poor. Diversions for irrigation of about 75 acres, 1959 determinations, upstream from station. Several observations of water temperature were made during the year.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	40	e36	e29	36	23	32	160	61	32	37	31
2	45	38	e31	e24	35	23	29	146	66	29	33	30
3	45	39	e29	e22	33	24	34	165	76	32	31	29
4	44	38	e26	e24	44	25	33	183	60	28	31	27
5	43	38	e23	e27	43	25	41	204	57	26	30	26
6	43	38	e28	e25	39	23	50	205	55	26	30	25
7	45	38	e35	e21	32	25	54	186	54	32	35	25
8	46	39	e29	e22	36	28	62	187	55	46	36	25
9	44	40	e29	e20	27	25	61	172	53	37	29	25
10	42	35	e33	e21	25	23	71	168	49	41	28	24
11	41	38	e33	e22	27	24	78	169	46	37	28	23
12	41	38	e30	e22	28	27	61	160	44	46	31	22
13	41	38	e36	e23	26	24	69	141	41	46	29	21
14	40	38	e33	e22	24	24	81	130	39	54	29	21
15	40	36	e30	e21	25	26	91	121	38	47	27	21
16	40	37	e40	e22	25	27	72	115	37	54	26	21
17	44	37	e41	e23	24	25	80	109	38	58	33	21
18	43	41	e41	e21	23	25	99	101	37	52	150	21
19	47	33	e40	e20	e27	25	110	98	50	67	206	21
20	43	40	e36	e25	e26	26	82	96	40	59	94	21
21	43	39	e24	e24	e21	25	95	89	35	47	62	21
22	43	37	e26	e26	e22	24	88	83	35	42	50	30
23	43	41	e29	e29	e24	26	91	80	40	39	44	24
24	41	39	e29	e27	e25	29	100	80	34	36	50	22
25	41	e41	e27	e25	e22	33	118	80	31	35	44	22
26	40	e44	e30	e26	e20	34	129	80	30	39	41	22
27	40	e43	e28	e26	e23	38	154	73	31	45	38	22
28	40	e40	e30	e23	25	43	185	69	37	41	39	22
29	40	e36	e33	e33	24	37	201	66	37	42	38	22
30	37	e33	e29	e28	---	37	200	63	37	43	36	22
31	40	---	e31	38	---	35	---	60	---	41	33	---
TOTAL	1311	1152	975	761	811	858	2651	3839	1343	1299	1448	709
MEAN	42.3	38.4	31.5	24.5	28.0	27.7	88.4	124	44.8	41.9	46.7	23.6
MAX	47	44	41	38	44	43	201	205	76	67	206	31
MIN	37	33	23	20	20	23	29	60	30	26	26	21
AC-FT	2600	2280	1930	1510	1610	1700	5260	7610	2660	2580	2870	1410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2000, BY WATER YEAR (WY)

MEAN	52.1	38.9	29.9	26.7	27.1	41.5	131	341	256	98.8	110	75.3
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1920 - 2000	
ANNUAL TOTAL	41138		17157			
ANNUAL MEAN	113		46.9		103	
HIGHEST ANNUAL MEAN					267	1941
LOWEST ANNUAL MEAN					30.7	1950
HIGHEST DAILY MEAN	778	May 25	206	Aug 19	1980	May 22 1991
LOWEST DAILY MEAN	14	Jan 12	20	Jan 9	6.0	Dec 22 1956
ANNUAL SEVEN-DAY MINIMUM	20	Jan 7	21	Sep 13	6.7	Dec 19 1956
INSTANTANEOUS PEAK FLOW			316	Aug 18	4500	Sep 21 1929
INSTANTANEOUS PEAK STAGE			2.64	Aug 18	6.20	Sep 21 1929
INSTANTANEOUS LOW FLOW			17	[a]Mar 17-19	2.0	Mar 19 1971
ANNUAL RUNOFF (AC-FT)	81600		34030		74540	
10 PERCENT EXCEEDS	284		88		252	
50 PERCENT EXCEEDS	48		37		48	
90 PERCENT EXCEEDS	30		23		22	

e Estimated
a Also occurred Mar. 4, 11, 14.

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 estimated daily discharges, which are poor. Diversions upstream from station for irrigation of about 4,900 acres, 1959 determinations, upstream and downstream from station. Acequia del Bodo Juan Paiz (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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e9.0	16	31	27	20	25	14	108	4.5	77	29	e3.1
2	e9.0	14	31	33	30	24	13	94	4.4	23	e7.0	e3.2
3	e9.5	16	30	19	30	23	13	78	4.9	26	e2.4	e3.2
4	e10	18	31	15	28	24	13	70	21	e10	e2.5	e3.0
5	e10	17	29	17	29	23	13	78	24	e7.0	e2.7	e2.8
6	e12	15	26	20	29	20	13	64	103	e5.5	e3.0	e2.4
7	20	12	21	12	28	23	13	81	14	222	e10	e2.7
8	18	7.0	26	26	30	24	13	69	7.8	12	e3.4	e2.8
9	22	5.2	30	24	31	25	12	61	4.8	21	e3.3	e6.0
10	19	6.8	32	24	28	25	5.2	55	4.0	19	e3.2	e3.8
11	9.6	13	32	38	28	23	6.5	49	6.2	18	e3.1	e3.7
12	12	11	37	36	28	14	13	41	3.9	358	e3.0	e3.5
13	15	13	32	33	25	9.4	18	41	3.3	198	e2.8	3.3
14	17	9.4	23	29	25	8.0	11	37	3.6	65	e2.5	2.9
15	16	9.0	16	25	25	9.6	12	32	3.3	56	e2.4	2.7
16	17	8.7	28	29	25	9.5	13	21	3.1	46	2.3	2.7
17	23	12	25	31	26	12	15	15	3.1	27	2.4	2.6
18	23	14	31	29	27	16	8.7	9.7	2.7	53	30	2.6
19	23	17	34	27	27	17	9.8	9.4	2.7	76	216	2.3
20	22	29	34	27	27	19	15	9.5	2.3	86	182	2.3
21	23	29	25	28	25	19	60	9.4	2.8	38	92	2.5
22	22	23	21	26	24	22	57	7.5	6.1	40	44	2.5
23	22	26	30	27	26	49	61	7.9	202	28	25	2.5
24	22	25	25	27	26	31	49	5.8	38	e12	17	2.1
25	20	26	22	24	25	17	48	5.3	8.7	e6.4	14	2.1
26	21	23	32	21	25	16	49	5.5	e3.3	e4.0	12	2.3
27	19	22	31	29	25	11	44	10	100	e3.6	13	1.8
28	19	24	28	31	21	13	52	13	27	e3.4	e6.1	1.8
29	19	29	31	30	23	12	94	5.7	259	e3.5	e2.6	1.7
30	18	30	34	29	---	12	98	5.4	237	140	e2.9	1.7
31	18	---	30	22	---	13	---	4.5	---	107	e3.0	---
TOTAL	539.1	520.1	888	815	766	588.5	856.2	1102.6	1110.5	1791.4	744.6	82.6
MEAN	17.4	17.3	28.6	26.3	26.4	19.0	28.5	35.6	37.0	57.8	24.0	2.75
MAX	23	30	37	38	31	49	98	108	259	358	216	6.0
MIN	9.0	5.2	16	12	20	8.0	5.2	4.5	2.3	3.4	2.3	1.7
AC-FT	1070	1030	1760	1620	1520	1170	1700	2190	2200	3550	1480	164

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2000, BY WATER YEAR (WY)

MEAN	61.7	40.9	28.1	25.2	24.8	61.3	175	370	266	132	198	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1929 - 2000	
ANNUAL TOTAL	48308.68		9804.6			
ANNUAL MEAN	132		26.8		126	
HIGHEST ANNUAL MEAN					489	1941
LOWEST ANNUAL MEAN					23.4	1974
HIGHEST DAILY MEAN	1180	Aug 6	358	Jul 12	10000	Jun 2 1937
LOWEST DAILY MEAN	.12	Apr 20	1.7	Sep 29,30	.00	Jun 16 1934
ANNUAL SEVEN-DAY MINIMUM	2.8	Apr 17	1.9	Sep 24	.00	Jun 16 1934
INSTANTANEOUS PEAK FLOW			3330	Jul 12	40300	Jun 1 1937
INSTANTANEOUS PEAK STAGE			7.65	Jul 12	20.34	Jun 1 1937
INSTANTANEOUS LOW FLOW			.82	Jan 7	.00	Apr 24 1996
ANNUAL RUNOFF (AC-FT)	95820		19450		91090	
10 PERCENT EXCEEDS	404		49		345	
50 PERCENT EXCEEDS	39		20		38	
90 PERCENT EXCEEDS	12		3.0		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 estimated daily discharges, 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	6.8	6.9	e6.0	e4.3	4.3	8.6	12	2.6	13	11	4.6
2	5.6	6.6	6.7	e5.8	e5.2	4.5	7.7	12	2.7	7.6	9.2	4.6
3	5.2	6.9	5.7	e5.9	5.8	4.3	9.4	10	3.4	5.9	8.2	4.2
4	5.1	6.8	5.4	e6.4	5.5	4.4	8.5	9.6	3.4	4.6	7.9	4.1
5	5.0	6.8	e6.1	e6.2	5.3	4.5	13	8.8	3.2	3.9	7.9	3.9
6	5.0	6.9	e5.7	e6.4	5.4	4.7	16	8.8	3.0	8.3	9.0	3.2
7	5.0	6.7	e5.9	e6.0	5.3	4.4	15	8.5	2.8	15	9.4	3.2
8	5.2	6.7	e5.8	e6.2	5.0	4.3	14	8.4	3.2	19	8.7	3.6
9	5.4	6.8	e5.6	e6.1	5.4	4.1	12	8.3	3.2	16	7.2	3.8
10	5.3	6.7	e5.2	e5.7	5.5	4.5	12	7.8	3.2	13	7.7	3.5
11	5.3	6.8	e5.7	e5.9	4.8	3.8	16	7.2	2.9	11	6.5	3.2
12	5.2	6.9	e5.4	e5.6	4.4	4.1	16	6.8	2.7	12	5.9	3.0
13	5.1	6.8	e6.0	5.3	4.5	4.4	22	6.5	2.5	30	6.6	2.9
14	5.1	6.9	e6.1	5.2	4.9	4.3	24	5.3	2.3	34	5.5	2.8
15	5.1	6.9	e5.6	5.3	5.1	4.2	23	5.0	2.2	24	4.8	2.7
16	5.3	6.6	e6.8	5.2	3.7	4.8	19	4.9	2.1	33	4.8	2.7
17	7.6	5.8	e6.5	5.0	3.8	4.5	17	4.8	2.1	29	5.6	2.7
18	7.4	6.3	e6.0	5.5	4.3	4.7	16	4.4	2.3	32	13	2.7
19	8.2	6.3	e5.7	5.7	4.9	4.0	16	5.8	3.1	31	26	2.6
20	7.9	6.3	e6.7	5.1	5.3	4.6	14	5.3	3.0	22	19	2.4
21	7.8	7.6	e7.3	5.2	5.2	4.7	14	5.0	2.6	18	14	2.5
22	7.5	7.1	e7.1	5.3	5.1	5.8	13	4.5	2.6	15	11	2.7
23	7.4	5.7	e7.4	4.8	4.9	5.8	13	4.3	4.0	12	10	3.2
24	7.1	6.1	e6.9	4.8	4.7	8.1	12	3.9	2.8	12	9.4	2.5
25	6.9	7.3	e7.0	e4.6	4.6	9.3	12	3.8	2.7	9.1	8.4	2.5
26	6.8	7.6	e7.6	e4.3	3.9	10	12	4.0	2.5	8.5	7.5	2.6
27	6.6	7.6	e7.3	e4.2	4.1	11	12	3.6	2.8	7.7	6.9	2.5
28	6.6	7.2	e6.7	e4.6	5.0	11	13	3.0	3.2	8.3	6.6	2.4
29	6.5	6.9	e6.3	e4.4	4.6	10	13	2.3	5.6	8.6	6.5	2.4
30	6.6	6.7	e6.1	e4.7	---	9.4	11	2.6	13	17	5.7	2.5
31	6.8	---	e6.3	e4.1	---	9.9	---	2.8	---	15	5.1	---
TOTAL	191.4	203.1	195.5	165.5	140.5	182.4	424.2	190.0	97.7	495.5	275.0	92.2
MEAN	6.17	6.77	6.31	5.34	4.84	5.88	14.1	6.13	3.26	16.0	8.87	3.07
MAX	8.2	7.6	7.6	6.4	5.8	11	24	12	13	34	26	4.6
MIN	5.0	5.7	5.2	4.1	3.7	3.8	7.7	2.3	2.1	3.9	4.8	2.4
AC-FT	380	403	388	328	279	362	841	377	194	983	545	183

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2000, BY WATER YEAR (WY)

MEAN	12.6	10.0	6.79	5.63	5.92	12.7	35.3	55.6	23.1	16.6	32.8	21.0
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1926 - 2000	
ANNUAL TOTAL	7834.0		2653.0			
ANNUAL MEAN	21.5		7.25		19.9	
HIGHEST ANNUAL MEAN					80.7	1941
LOWEST ANNUAL MEAN					2.53	1956
HIGHEST DAILY MEAN	218	Apr 30	34	Jul 14	1580	Sep 10 1991
LOWEST DAILY MEAN	5.0	Oct 5	2.1	Jun 16	.20	Sep 21 1956
ANNUAL SEVEN-DAY MINIMUM	5.1	Oct 3	2.3	Jun 12	.21	Oct 8 1956
INSTANTANEOUS PEAK FLOW			77	Jul 18	[a]7120	Aug 2 1966
INSTANTANEOUS PEAK STAGE			2.13	Jul 18	[b]9.70	Aug 2 1966
INSTANTANEOUS LOW FLOW			1.9	Jun 17	[c].20	Sep 21 1956
ANNUAL RUNOFF (AC-FT)	15540		5260		14440	
10 PERCENT EXCEEDS	59		13		45	
50 PERCENT EXCEEDS	8.2		5.8		7.9	
90 PERCENT EXCEEDS	5.9		2.9		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 estimated daily discharges, which are poor. Diversions for irrigation of about 7,000 acres, 1959 determination, upstream from station. Several observations of water temperature were made during the year. No flow at times most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of about June 1, 1937, reached a stage of about 27.2 ft; discharge determined as 26,700 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	11	e13	7.1	5.4	e4.0	5.7	.29	.00	68	7.2	.00
2	11	11	e13	7.1	5.6	e3.9	6.3	.08	.00	26	3.8	.00
3	10	11	e13	6.9	5.3	e3.8	6.7	.01	.00	17	2.4	.00
4	9.3	11	e13	5.2	5.7	e3.7	7.3	.77	.00	15	2.1	.00
5	9.2	11	e14	5.2	5.6	e3.6	7.2	.87	.00	9.3	1.7	.00
6	9.1	11	e14	6.9	5.3	e3.5	6.9	.84	.00	6.3	1.6	.00
7	8.8	11	e14	6.6	5.3	e3.4	6.2	.49	.00	9.3	10	.00
8	8.7	11	e13	5.6	5.2	e3.4	5.3	.15	.00	13	2.2	.00
9	8.4	11	e13	5.6	5.0	3.4	4.7	.02	.00	14	1.2	.00
10	8.7	11	e13	6.1	4.8	3.3	4.2	.00	.00	8.3	2.6	.00
11	9.0	11	e13	6.4	4.6	3.3	4.2	.00	.00	5.3	2.2	.00
12	8.2	12	e12	8.3	4.6	3.7	4.8	.00	.00	3.6	1.3	.00
13	7.9	12	e13	6.4	4.5	3.4	14	.00	.00	5.5	.66	.00
14	7.7	12	e14	6.3	4.5	4.1	12	.00	.00	24	.26	.00
15	7.4	11	e16	6.3	4.2	4.3	8.4	.00	.00	16	.05	.00
16	7.5	e12	e18	6.2	4.2	4.8	7.0	.00	.00	7.5	.00	.00
17	9.5	e13	e20	5.9	4.1	4.3	6.0	.00	.00	5.1	.00	.00
18	10	e13	e19	6.0	4.1	4.6	4.6	.00	.00	11	.00	.00
19	11	e13	e14	6.2	4.2	5.5	3.5	.00	.00	5.7	.00	.00
20	12	e14	e13	6.3	4.1	5.5	2.6	.00	.00	5.1	.00	.00
21	13	e14	e12	6.2	4.2	4.1	2.1	.00	5.1	18	.00	.00
22	13	e14	e14	6.1	4.0	4.9	1.7	.00	5.5	4.8	2.5	.00
23	12	e14	e17	5.9	3.9	11	1.2	.00	2.6	3.2	1.7	.00
24	10	e13	e16	5.7	3.8	15	1.3	.00	8.2	2.3	.85	.00
25	9.3	e13	e13	5.6	3.6	21	.96	.00	11	1.8	.35	.00
26	9.7	e14	9.4	5.4	3.6	12	.78	.00	6.5	1.3	.09	.00
27	10	e13	8.9	5.2	3.5	8.3	.63	.00	4.2	1.0	.01	.00
28	12	e13	7.9	5.5	3.8	6.7	.48	.00	3.0	.88	.00	.00
29	11	e13	8.1	5.6	3.8	5.8	.61	.00	3.5	34	.00	.00
30	11	e13	8.3	5.5	---	5.3	.71	.00	24	99	.00	.00
31	11	---	7.7	5.4	---	5.1	---	.00	---	19	.00	---
TOTAL	306.4	367	407.3	188.7	130.5	178.7	138.07	3.52	73.60	460.28	44.77	0.00
MEAN	9.88	12.2	13.1	6.09	4.50	5.76	4.60	.11	2.45	14.8	1.44	.000
MAX	13	14	20	8.3	5.7	21	14	.87	24	99	10	.00
MIN	7.4	11	7.7	5.2	3.5	3.3	.48	.00	.00	.88	.00	.00
AC-FT	608	728	808	374	259	354	274	7.0	146	913	89	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)

MEAN	12.9	6.17	3.92	3.35	4.00	5.42	16.4	18.1	18.5	40.4	62.1	23.5
MAX	166	50.0	18.3	18.9	58.9	48.2	269	261	91.4	222	268	178
(WY)	1958	1987	1987	1992	1987	1958	1958	1973	1986	1988	1991	1972
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.09	.000
(WY)	1953	1952	1952	1951	1951	1951	1951	1952	1951	1964	1983	1951

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1951 - 2000	
ANNUAL TOTAL	7117.7		2298.84			
ANNUAL MEAN	19.5		6.28		18.2	
HIGHEST ANNUAL MEAN					66.6	1958
LOWEST ANNUAL MEAN					.85	1978
HIGHEST DAILY MEAN	323	Sep 17	99	Jul 30	2640	Aug 11 1981
LOWEST DAILY MEAN	3.1	Mar 7	.00	May 10	.00	Jan 1 1951
ANNUAL SEVEN-DAY MINIMUM	3.5	Mar 1	.00	May 10	.00	Jan 1 1951
INSTANTANEOUS PEAK FLOW			716	Jul 29	[a]13700	Jul 11 1982
INSTANTANEOUS PEAK STAGE			5.85	Jul 29	19.67	Jul 11 1982
INSTANTANEOUS LOW FLOW			.00	May 18	.00	Apr 7 1996
ANNUAL RUNOFF (AC-FT)	14120		4560		13190	
10 PERCENT EXCEEDS	37		13		27	
50 PERCENT EXCEEDS	11		5.1		1.3	
90 PERCENT EXCEEDS	4.5		.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 T.10 N., R.20 E., Guadalupe County, Hydrologic Unit 13060001, in Anton Chico Grant, on right bank 0.4 mi upstream from Canon del Uta, 2.9 mi southeast of Colonias, and at mile 775.8.

DRAINAGE AREA.--2,330 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 many days most years.

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	5.6	5.7	5.0	3.6	5.7	4.3	4.7	36	1.6	159	e80	e1.0
2	5.9	5.7	5.0	3.6	5.7	3.4	e3.7	56	1.2	80	e20	e1.0
3	6.0	6.0	5.0	3.6	5.8	4.3	e2.9	33	1.3	8.6	e11	e.90
4	6.2	6.0	5.1	3.6	5.7	4.7	e2.5	e20	1.2	8.3	e14	e.80
5	6.4	6.0	5.1	3.9	5.1	4.7	e2.3	e13	1.5	11	e16	e.70
6	6.5	5.9	4.6	3.9	5.2	5.4	e2.2	e15	1.2	19	e16	e.60
7	6.7	5.8	4.5	3.6	5.6	3.4	e2.0	e11	1.7	85	e18	e.60
8	6.8	5.8	4.7	3.5	5.4	e2.9	1.9	e13	1.3	67	e18	.54
9	7.4	5.6	4.6	3.4	e3.8	e2.9	1.9	3.9	1.3	33	e20	.50
10	7.4	5.4	4.7	3.5	3.4	e2.9	1.9	2.9	1.2	e15	e21	.50
11	7.7	5.5	4.6	3.6	2.9	e3.0	1.8	1.6	1.0	e13	e21	.50
12	7.6	5.5	4.6	3.9	2.6	e3.0	1.6	1.7	.90	e17	e20	.50
13	7.2	5.6	4.4	4.2	2.5	e3.0	1.7	1.9	.80	322	e21	.50
14	7.1	5.5	4.0	4.3	2.5	e3.0	1.7	2.4	.83	97	e20	.51
15	6.9	5.6	4.0	4.1	3.4	6.3	1.5	2.3	.91	e45	e20	.53
16	6.7	5.6	4.0	4.5	4.0	4.8	1.6	1.9	.95	e29	e18	.56
17	6.6	5.4	4.0	4.4	2.9	5.1	1.4	1.5	1.0	e23	e16	.56
18	6.7	5.2	3.6	5.3	3.0	4.8	1.1	1.9	.94	e18	e17	.55
19	6.9	5.5	3.6	5.2	2.9	5.5	1.1	1.9	1.2	42	e16	.56
20	6.9	5.4	3.6	5.5	3.4	8.9	1.7	1.4	.87	66	152	e.50
21	6.9	5.5	4.0	4.6	3.9	8.3	1.5	1.2	.80	87	109	e.49
22	6.7	5.4	4.1	5.1	3.2	8.2	1.1	1.2	.79	47	58	e.45
23	6.4	5.2	4.0	5.4	3.6	4.2	1.3	1.2	.71	e30	21	e.44
24	6.4	5.2	4.0	5.1	3.9	3.4	1.2	1.2	85	e22	e10	.43
25	6.4	5.1	4.0	5.6	2.6	3.3	1.2	1.0	34	e16	e7.0	.42
26	6.4	5.1	4.0	5.6	3.4	2.8	1.1	1.3	16	e16	e8.0	.41
27	6.4	5.1	3.8	5.6	4.5	2.7	.91	1.4	13	e15	e6.0	.39
28	6.2	5.2	3.6	5.7	4.7	2.8	.94	1.7	121	e16	e5.0	.37
29	5.8	5.2	3.6	5.7	4.1	3.1	.87	1.4	109	e17	e4.0	.36
30	5.6	5.1	3.6	5.7	---	5.7	.99	1.1	226	204	e3.0	.34
31	5.6	---	3.6	5.5	---	6.9	---	1.2	---	e220	e2.0	---
TOTAL	204.0	164.8	131.0	140.8	115.4	137.7	52.31	236.2	629.20	1847.9	788.0	16.51
MEAN	6.58	5.49	4.23	4.54	3.98	4.44	1.74	7.62	21.0	59.6	25.4	.55
MAX	7.7	6.0	5.1	5.7	5.8	8.9	4.7	56	226	322	152	1.0
MIN	5.6	5.1	3.6	3.4	2.5	2.7	.87	1.0	.71	8.3	2.0	.34
AC-FT	405	327	260	279	229	273	104	469	1250	3670	1560	33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2000, BY WATER YEAR (WY)

MEAN	23.4	26.4	8.42	4.50	5.93	35.7	101	323	280	108	178	85.5
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1976 - 2000	
ANNUAL TOTAL	36866.2		4463.82			
ANNUAL MEAN	101		12.2		102	
HIGHEST ANNUAL MEAN					245	1991
LOWEST ANNUAL MEAN					12.2	2000
HIGHEST DAILY MEAN	1670	Aug 3	322	Jul 13	2960	Aug 11 1981
LOWEST DAILY MEAN	3.6	Dec 18	.34	Sep 30	.00	Jan 1 1976
ANNUAL SEVEN-DAY MINIMUM	3.7	Dec 25	.39	Sep 24	.00	Jan 1 1976
INSTANTANEOUS PEAK FLOW			826	Jul 13	[a]12400	Jun 20 1982
INSTANTANEOUS PEAK STAGE			6.76	Jul 13	11.53	Jul 11 1996
INSTANTANEOUS LOW FLOW			.31	Sep 30	.00	Jan 1 1976
ANNUAL RUNOFF (AC-FT)	73120		8850		73640	
10 PERCENT EXCEEDS	311		20		319	
50 PERCENT EXCEEDS	7.0		4.6		7.5	
90 PERCENT EXCEEDS	5.1		.91		.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. 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 estimated daily discharges, which are poor. Diversions and ground-water withdrawals for irrigation of about 11,800 acres, 1959 determination, upstream from station. Several observations of water temperature were made during the year.

REVISION.--Revised figures for discharges for water year 1999, superseding those published in the report for 1999 are given below.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e220	2070	73	48	e28	e29	e30	1440	521	44	87	e37
2	e380	866	75	45	e28	e29	e31	783	505	22	57	35
3	e170	527	75	36	e28	e29	e30	491	442	17	e1800	39
4	e125	373	70	35	e32	e29	e30	373	422	18	e1600	34
5	e80	301	64	e34	e32	e29	e29	446	366	18	1300	43
6	e60	269	61	e33	e32	e30	e31	382	328	20	1310	47
7	e50	217	64	e32	e31	e30	e27	302	275	134	1160	35
8	e44	182	67	e32	e31	e30	e26	255	225	69	955	33
9	41	164	59	e32	e31	e30	e26	244	191	51	1060	34
10	41	137	51	e31	e30	e30	26	287	178	456	1110	32
11	37	130	42	e31	e30	e29	26	318	165	352	1110	31
12	32	120	43	e31	e30	e29	25	354	172	169	983	32
13	30	120	56	e31	e30	e29	25	334	203	94	775	33
14	29	125	45	e31	e31	e29	24	272	213	54	679	34
15	30	122	44	e30	e31	e29	25	295	181	37	798	34
16	30	115	43	e30	e31	e28	26	355	172	40	864	35
17	30	113	49	e30	e30	e28	28	315	151	41	662	269
18	30	117	49	e29	e30	e28	28	321	418	177	552	162
19	30	113	51	e29	e30	e28	26	324	304	112	475	289
20	31	106	54	e29	e30	e28	26	348	249	109	432	142
21	31	102	52	e28	e29	e28	29	396	208	180	447	77
22	32	90	40	e28	e29	e28	31	397	173	132	316	64
23	32	82	36	e29	e29	e29	32	452	147	237	433	54
24	30	88	35	e29	e29	e30	34	462	112	141	261	43
25	30	84	32	e28	e29	e29	35	558	84	96	190	36
26	29	82	32	e28	e30	e28	34	532	65	70	127	37
27	30	79	34	e27	e30	e27	32	652	41	46	89	36
28	217	71	49	e27	e30	e27	33	637	24	40	72	33
29	459	67	59	e27	---	e28	36	579	719	39	61	33
30	268	65	49	e27	---	e29	790	529	220	37	49	35
31	898	---	50	e28	---	e30	---	532	---	37	40	---
TOTAL	3576	7097	1603	965	841	893	1631	13965	7474	3089	19854	1878
MEAN	115	237	51.7	31.1	30.0	28.8	54.4	450	249	99.6	640	62.6
MAX	898	2070	75	48	32	30	790	1440	719	456	1800	289
MIN	29	65	32	27	28	27	24	244	24	17	40	31
AC-FT	7090	14080	3180	1910	1670	1770	3240	27700	14820	6130	39380	3730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1999, BY WATER YEAR (WY)

MEAN	45.8	49.1	26.5	23.2	24.1	54.3	120	355	311	143	246	123
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 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1976 - 1999	
ANNUAL TOTAL	53570		62866			
ANNUAL MEAN	147		172		131	
HIGHEST ANNUAL MEAN					265	1991
LOWEST ANNUAL MEAN					26.1	1978
HIGHEST DAILY MEAN	2070	Nov 1	2070	Nov 1	4310	Jul 10 1996
LOWEST DAILY MEAN	28	Sep 15	17	Jul 3	4.5	Apr 27 1978
ANNUAL SEVEN-DAY MINIMUM	29	Sep 14	25	Apr 9	4.7	Apr 23 1978
INSTANTANEOUS PEAK FLOW			10400	Aug 3	[a]16000	Jul 11 1996
INSTANTANEOUS PEAK STAGE			12.84	Aug 3	19.06	Jul 11 1996
INSTANTANEOUS LOW FLOW			14	Jul 2,5	2.9	Aug 21 1984
ANNUAL RUNOFF (AC-FT)	106300		124700		94610	
10 PERCENT EXCEEDS	378		460		367	
50 PERCENT EXCEEDS	68		44		32	
90 PERCENT EXCEEDS	31		28		10	

e Estimated
a From rating curve extended above 1,500 ft^3/s, on basis of slope-area measuremnt of peak flow.

08382650 PECOS RIVER ABOVE SANTA ROSA LAKE, NM--Continued

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	35	30	31	25	27	24	23	41	25	194	112	20
2	35	30	31	26	28	23	23	56	23	150	32	20
3	37	29	34	26	27	24	23	48	22	40	16	21
4	37	30	34	25	26	23	22	36	21	34	15	21
5	36	29	32	25	25	23	21	31	53	18	16	20
6	35	29	31	26	25	24	21	35	29	17	17	18
7	35	29	31	26	26	24	21	31	28	88	18	20
8	34	29	30	26	25	25	22	36	25	103	18	21
9	35	29	29	27	25	25	22	24	24	23	20	22
10	35	30	31	27	26	24	21	22	23	19	20	23
11	34	30	32	28	26	23	22	22	22	17	21	23
12	34	33	31	26	26	22	22	22	22	23	22	23
13	35	33	e30	27	25	23	22	22	20	406	22	22
14	34	32	e30	27	25	23	21	22	22	157	21	19
15	35	32	e30	26	25	23	21	19	22	92	21	18
16	36	34	e30	26	26	24	22	20	22	54	19	18
17	38	35	e29	26	26	23	22	20	23	39	19	18
18	32	34	e29	27	26	25	22	22	23	21	21	19
19	32	35	e28	27	26	24	22	23	21	43	21	20
20	33	34	e29	26	24	24	23	23	20	57	215	21
21	31	34	e29	25	23	24	22	23	22	112	177	22
22	30	32	e29	25	22	27	21	22	22	47	76	22
23	31	31	e29	25	22	29	21	22	20	37	34	23
24	30	33	e29	25	24	27	25	22	91	33	22	23
25	31	35	29	25	25	25	29	23	44	19	20	23
26	32	32	29	25	25	24	25	22	23	19	18	21
27	33	30	29	25	25	23	26	23	24	19	18	21
28	32	30	28	26	25	23	29	23	157	19	19	20
29	31	32	28	26	25	23	27	22	157	20	19	19
30	31	32	27	27	---	24	29	22	339	105	19	19
31	30	---	27	27	---	24	---	21	---	184	19	---
TOTAL	1039	947	925	806	731	746	692	820	1389	2209	1127	620
MEAN	33.5	31.6	29.8	26.0	25.2	24.1	23.1	26.5	46.3	71.3	36.4	20.7
MAX	38	35	34	28	28	29	29	56	339	406	215	23
MIN	30	29	27	25	22	22	21	19	20	17	15	18
AC-FT	2060	1880	1830	1600	1450	1480	1370	1630	2760	4380	2240	1230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2000, BY WATER YEAR (WY)

MEAN	45.2	48.4	26.6	23.3	24.1	53.1	116	342	300	140	237	119
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1976 - 2000	
ANNUAL TOTAL	53501		12051			
ANNUAL MEAN	147		32.9		127	
HIGHEST ANNUAL MEAN					265	1991
LOWEST ANNUAL MEAN					26.1	1978
HIGHEST DAILY MEAN	1800	Aug 3	406	Jul 13	4310	Jul 10 1996
LOWEST DAILY MEAN	17	Jul 3	15	Aug 4	4.5	Apr 27 1978
ANNUAL SEVEN-DAY MINIMUM	25	Apr 9	17	Aug 3	4.7	Apr 23 1978
INSTANTANEOUS PEAK FLOW			922	Jul 13	[a]16000	Jul 11 1996
INSTANTANEOUS PEAK STAGE			7.23	Jul 13	19.06	Jul 11 1996
INSTANTANEOUS LOW FLOW			14	Aug 3-6	2.9	Aug 21 1984
ANNUAL RUNOFF (AC-FT)	106100		23900		91650	
10 PERCENT EXCEEDS	444		36		353	
50 PERCENT EXCEEDS	33		25		31	
90 PERCENT EXCEEDS	28		20		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 Sept. 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC												
13...	1125	32	640	100	10.0	8.2	830	8.5	7.5	450	310	149
JAN												
12...	1245	27	642	102	9.3	8.3	857	17.0	11.5	440	300	147
MAY												
19...	1030	26	635	101	8.0	8.2	925	16.0	17.5	470	330	154
AUG												
16...	1140	20	649	105	7.1	8.0	978	33.0	26.5	570	430	186

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
DEC												
13...	18.4	1.2	.2	10.3	146	141	172	0	5.8	.3	11.9	307
JAN												
12...	19.1	1.4	.2	10.9	140	141	172	0	6.3	.3	12.1	320
MAY												
19...	20.0	1.1	.2	10.5	132	141	172	0	6.4	.3	11.3	352
AUG												
16...	25.9	1.3	.2	10.7	141	137	168	0	9.2	.3	11.9	372

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	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)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
DEC												
13...	<.20	<.20	.05	--	.010	--	.190	<.010	.020	<.010	<.020	--
JAN												
12...	<.20	--	.02	<.2	.010	<2	.170	<.010	<.020	<.010	--	<40
MAY												
19...	<.20	<.20	.04	--	<.010	--	.100	<.010	<.020	<.010	<.020	--
AUG												
16...	<.20	<.20	.04	--	<.010	--	<.020	<.010	<.020	.010	<.020	--

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	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)
DEC												
13...	590	2	<1	<2.0	85	<1	33	<1.0	<.8	<1	1	<10
JAN												
12...	602	2	<1	<2.0	93	<1	32	<1.0	<.8	<1	2	<10
MAY												
19...	641	<10	<1	<2.0	88	<1	33	<1.0	<.8	<1	2	<10
AUG												
16...	700	9	<1	<2.0	107	<1	46	<1.0	<.8	<1	3	<10

08382650 PECOS RIVER ABOVE SANTA ROSA LAKE, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	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)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)
DEC											
13...	<1	11	<.3	1	1	<2.4	<3	<1	2	--	--
JAN											
12...	<1	10	<.3	1	2	E1.6	E2	<1	2	<1	<.1
MAY											
19...	<1	11	<.3	1	2	<2.4	<3	<1	<4	--	--
AUG											
16...	<1	20	<.3	1	<1	<2.4	<3	<1	11	--	--

DATE	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC											
13...	--	--	--	--	--	--	--	--	2	38	87
JAN											
12...	.5	1.6	2	2200	2.5	310	<.01	10	2	55	67
MAY											
19...	--	--	--	--	--	--	--	--	2	33	84
AUG											
16...	--	--	--	--	--	--	--	--	2	36	67

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, 98,950 acre-ft, Apr.4, 9, elevation, 4,745.51 ft; minimum, 2,800 acre-ft, Aug. 26, elevation, 4,683.28 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97400	97620	97480	96850	97550	97950	98840	83330	48510	51210	32110	3000
2	97360	97590	96490	96850	97590	97990	98840	83390	48310	51540	32180	3030
3	97330	97620	96120	96890	97620	97990	98880	83430	48330	51540	32180	3060
4	97330	97700	96120	96930	97620	98030	98950	83360	48400	51560	32160	3090
5	97330	97700	96120	97110	97620	98030	98880	83430	49750	51540	32160	3120
6	97330	97700	96120	97000	97700	98060	98880	83360	49770	51560	32180	3140
7	97290	97700	96120	97000	97730	98030	98840	83330	49820	51590	32220	3170
8	97220	97700	96160	97040	97810	98030	98910	83390	49820	51780	32250	3200
9	97250	97730	96160	97040	97810	98030	98950	83390	49770	51760	32460	3240
10	97250	97730	96200	97040	97810	98030	98910	82660	49790	51760	32410	3260
11	97290	97770	96270	97040	97810	98030	98030	80540	49750	51800	31910	3290
12	97290	97770	96270	97040	97810	98030	96270	78400	49770	52020	30130	3290
13	97250	97770	96310	97070	97770	98030	94070	75960	49820	52580	27850	3310
14	97220	97840	96310	97110	97840	98030	91940	73570	49680	52800	25420	3340
15	97250	97880	96310	97110	97880	98030	89770	71230	49770	52940	22930	3360
16	97220	97880	96380	97110	97950	98060	87700	68860	49700	53040	20420	3390
17	97220	97950	96310	97110	97950	98060	85640	66410	49660	52430	18040	3410
18	97250	97880	96340	97140	97920	98100	84020	64130	49630	50590	15700	3440
19	97250	97880	96380	97140	97990	98100	83460	61860	49630	48400	13330	3460
20	97290	97840	96380	97180	97950	98170	83520	59750	49540	46410	11060	3480
21	97330	97920	96380	97220	97990	98170	83520	57460	49610	44500	8960	3510
22	97360	97920	96450	97250	97950	98320	83520	55220	49580	42660	6750	3540
23	97360	97920	96490	97250	97990	98580	83490	52970	49560	40540	4950	3560
24	97400	97880	96560	97400	97990	98540	83520	50730	49680	38560	3640	3590
25	97400	97950	96600	97250	97840	98620	83290	49030	49750	36560	2960	3610
26	97400	97880	96670	97330	97880	98690	83290	48550	49610	34360	2800	3640
27	97510	97950	96740	97290	97920	98800	83290	48580	49660	32410	2840	3650
28	97510	98030	96820	97360	97950	98800	83330	48580	50140	31630	2880	3690
29	97550	97990	96850	97440	97950	98770	83330	48550	50330	31630	2910	3710
30	97550	98030	96850	97510	---	98800	83330	48550	50900	31770	2930	3740
31	97590	---	96890	97590	---	98840	---	48530	---	31910	2970	---
MAX	97590	98030	97480	97590	97990	98840	98950	83430	50900	53040	32460	3740
MIN	97220	97590	96120	96850	97550	97950	83290	48530	48310	31630	2800	3000
(+)	4745.14	4745.26	4744.95	4745.14	4745.24	4745.48	4741.05	4728.55	4729.57	4720.16	4684.04	4687.06
(++)	+230	+440	-1140	+700	+360	+890	-15510	-34800	+2370	-18990	-28940	+770

CAL YR 1999 MAX 103780 MIN 49420 (++) +47530
WTR YR 2000 MAX 98950 MIN 2800 (++) -93620

(+) 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 good except for estimated daily discharges, which are poor. Flow completely regulated by Santa Rosa Lake (08382810) 0.2 mi upstream since April 1980. Diversions and ground-water withdrawals for irrigation of about 12,000 acres, 1959 determination, upstream from station. Several observations of water temperatures were made during the year.

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	e.00	.07	302	.12	.07	.11	.16	.03	.12	e.04	.32	.11
2	e.00	.05	520	.12	.07	.10	.14	.04	.09	e.05	.20	.02
3	e.00	.07	191	.07	.08	.10	.11	.03	.09	e.05	.20	.01
4	e.00	.02	.08	.06	.08	.12	.12	.03	.09	e.06	.18	.01
5	e.00	.00	.04	.08	.09	.12	.12	.02	.33	e.06	.21	.01
6	e.00	.00	.02	.09	.08	.12	.13	.02	.20	e.07	.25	.01
7	e.00	.00	.02	.07	.08	.11	.10	.02	.06	.07	.24	.01
8	e.00	.00	.08	.08	.07	.09	.11	.02	.06	.09	.24	.01
9	e.00	.00	.09	.09	.07	.09	.10	.02	.14	.09	.80	.01
10	e.00	.00	.11	.07	.07	.08	.11	365	.05	.09	.27	.01
11	e.00	.00	.12	.06	.06	.09	456	914	.06	.11	287	.01
12	.02	.00	.13	.05	.05	.09	919	1090	.05	2.3	888	.01
13	.07	.00	.13	.05	.06	.09	988	1190	.04	.95	1130	.01
14	.07	.00	.13	.05	.07	.09	1020	1180	.04	1.0	1170	.01
15	.06	.01	.13	.05	.07	.09	1020	1180	.03	.78	1210	.01
16	.05	.01	.13	.05	.07	.09	1010	1170	.02	.63	1190	.01
17	.10	.03	.14	.05	.07	.11	1010	1170	.02	355	1170	.01
18	.04	.05	.13	.07	.07	.14	735	1160	.02	992	1160	.01
19	.15	.05	.11	.07	.07	.15	262	1150	.02	1150	1140	.01
20	.10	.04	.10	.06	.07	.15	.09	1150	.02	1080	1110	.01
21	.08	.05	.10	.05	.07	.14	.07	1150	.02	1070	1090	.01
22	.10	.05	.09	.05	.09	.18	.06	1140	.02	1060	1060	.01
23	.13	.05	.09	.05	.11	.19	.05	1140	.02	1060	902	.01
24	.11	.05	.11	.05	.10	.12	.03	1130	.02	1050	670	.01
25	.09	.06	.11	.05	.09	.12	.03	863	.02	1070	392	.01
26	.09	.07	.12	.06	.09	.12	.03	281	.03	1090	126	.01
27	.07	.07	.09	.06	.09	.12	.03	.22	.03	1010	.32	.01
28	.05	.05	.08	.07	.10	.12	.03	.15	e.03	415	.29	.01
29	.08	.05	.13	.07	.09	.11	.02	.10	e.03	.58	.29	.01
30	.08	.05	.12	.07	---	.11	.02	.08	e.04	.53	.28	.01
31	.08	---	.13	.07	---	.14	---	.06	---	.42	.21	---
TOTAL	1.62	0.95	1015.86	2.06	2.25	3.60	7421.66	17423.84	1.81	11409.97	14699.30	0.41
MEAN	.052	.032	32.8	.066	.078	.12	247	562	.060	368	474	.014
MAX	.15	.07	520	.12	.11	.19	1020	1190	.33	1150	1210	.11
MIN	.00	.00	.02	.05	.05	.08	.02	.02	.02	.04	.18	.01
AC-FT	3.2	1.9	2010	4.1	4.5	7.1	14720	34560	3.6	22630	29160	.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2000, BY WATER YEAR (WY)

MEAN	12.7	10.4	8.82	16.7	36.8	52.5	93.9	281	283	196	233	142
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	.081	.026	.012	.041	.040	.12	.060	.047	.056	.014
(WY)	1990	2000	1990	1999	1999	1999	1999	1997	2000	1989	1996	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1980 - 2000	
ANNUAL TOTAL	20132.03		51983.33			
ANNUAL MEAN	55.2		142		118	
HIGHEST ANNUAL MEAN					215	1995
LOWEST ANNUAL MEAN					35.8	1981
HIGHEST DAILY MEAN	1420	Aug 5	1210	Aug 15	2100	Jun 12 1997
LOWEST DAILY MEAN	.00	Jan 23	.00	Oct 1	.00	Jul 31 1982
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 31	.00	Oct 1	.00	Mar 5 1983
ANNUAL RUNOFF (AC-FT)	39930		103100		85250	
10 PERCENT EXCEEDS	128		997		498	
50 PERCENT EXCEEDS	.08		.08		.72	
90 PERCENT EXCEEDS	.00		.01		.04	

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. 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 Negro upstream from station contribute a substantial in flow. Discharge represents inflow to Lake Sumner. Several observations of water temperature 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	79	79	95	92	83	97	73	410	77	88	55
2	76	75	475	94	91	84	96	70	364	74	79	56
3	74	76	574	93	91	83	91	68	97	78	72	62
4	72	75	185	98	89	83	91	65	76	74	67	63
5	73	74	102	96	89	80	89	65	256	70	66	64
6	72	74	92	96	89	82	89	62	151	67	63	70
7	68	74	88	102	88	81	87	63	98	65	62	71
8	72	75	88	96	88	81	81	62	80	66	64	69
9	73	75	89	95	88	82	83	65	78	65	65	74
10	72	74	89	97	88	81	83	64	77	66	122	71
11	74	74	89	98	88	79	79	600	73	68	113	70
12	76	74	90	98	88	80	489	983	71	73	318	68
13	75	76	89	98	88	81	1050	1080	71	92	1200	73
14	75	78	87	98	86	83	1130	1130	70	90	1230	72
15	74	76	92	99	85	77	1170	1160	71	76	1340	72
16	73	76	89	98	84	83	1250	1180	69	69	1320	72
17	81	74	90	98	85	83	1250	1190	70	66	1310	72
18	81	76	90	98	85	79	1140	1220	66	515	1320	68
19	78	78	89	96	87	80	729	1250	64	1170	1260	70
20	78	76	89	95	88	76	248	1250	61	1070	1220	66
21	78	77	90	95	88	79	113	1260	62	1090	1200	71
22	78	77	92	94	86	92	99	1260	64	1120	1190	73
23	77	79	91	93	84	119	87	1260	59	1130	1140	71
24	76	79	91	93	83	104	87	1260	56	1140	892	72
25	76	80	91	93	83	90	81	1230	58	1150	617	72
26	76	79	93	94	83	87	75	740	62	1200	297	73
27	76	78	93	95	84	85	76	290	68	1210	144	72
28	74	77	93	94	83	86	78	120	519	973	64	71
29	76	76	93	92	82	87	79	99	403	281	57	71
30	78	77	93	91	---	82	74	89	92	119	56	72
31	80	---	94	92	---	90	---	79	---	99	58	---
TOTAL	2343	2288	3769	2964	2513	2622	10271	19387	3816	13503	17094	2076
MEAN	75.6	76.3	122	95.6	86.7	84.6	342	625	127	436	551	69.2
MAX	81	80	574	102	92	119	1250	1260	519	1210	1340	74
MIN	68	74	79	91	82	76	74	62	56	65	56	55
AC-FT	4650	4540	7480	5880	4980	5200	20370	38450	7570	26780	33910	4120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2000, BY WATER YEAR (WY)

MEAN	102	94.9	95.7	101	117	135	171	351	380	303	349	268
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	86.1	66.4
(WY)	1988	2000	1991	1993	1984	1989	1984	1982	1991	1989	1996	1990

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1980 - 2000	
ANNUAL TOTAL	56221		82646			
ANNUAL MEAN	154		226		[a]206	
HIGHEST ANNUAL MEAN					318	1995
LOWEST ANNUAL MEAN					122	1981
HIGHEST DAILY MEAN	2180	Apr 30	1340	Aug 15	3510	Oct 17 1985
LOWEST DAILY MEAN	65	Apr 23	55	Sep 1	39	Aug 4 1987
ANNUAL SEVEN-DAY MINIMUM	69	Apr 20	58	Aug 29	43	Jul 29 1987
INSTANTANEOUS PEAK FLOW			3650	Jun 28	[b]48600	Sep 1 1942
INSTANTANEOUS PEAK STAGE			5.93	Jun 1	17.00	Sep 1 1942
INSTANTANEOUS LOW FLOW			51	Sep 2	11	Jan 31 1951
ANNUAL RUNOFF (AC-FT)	111500		163900		149300	
10 PERCENT EXCEEDS	238		1080		625	
50 PERCENT EXCEEDS	83		83		86	
90 PERCENT EXCEEDS	73		67		68	

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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC												
13...	1505	91	648	102	10.8	8.2	2880	6.5	5.5	1700	1600	568
JAN												
04...	1100	100	630	102	12.0	8.1	2910	7.0	.5	1700	1500	551
MAY												
22...	1145	1280	652	97	8.1	8.3	629	33.0	16.5	340	220	111
AUG												
21...	1300	1180	635	104	7.2	8.2	780	35.5	24.0	410	300	127

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
DEC												
13...	67.7	2.1	1	100	126	128	156	0	145	.6	16.6	1540
JAN												
04...	70.2	2.2	1	100	125	134	163	0	143	.6	12.4	1550
MAY												
22...	15.1	1.8	.4	16.4	132	123	150	0	13.7	.3	5.2	232
AUG												
21...	21.8	2.3	.4	18.9	120	113	137	0	13.8	.3	9.1	270

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	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)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
DEC												
13...	<.20	<.20	.04	4.5	.020	<2	.030	<.010	.020	<.010	.030	50
JAN												
04...	<.20	<.20	.04	--	.020	--	.020	<.010	.030	.030	.030	--
MAY												
22...	<.20	.25	.04	--	<.010	--	<.020	<.010	<.020	<.010	.120	--
AUG												
21...	.32	.32	.06	--	.010	--	.030	<.010	<.020	.010	.070	--

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	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)
DEC												
13...	2510	<2	<2	<2.0	30	<2	103	<2.0	<1.0	<2	6	<10
JAN												
04...	2500	7	<2	<2.0	18	<2	113	<2.0	2.1	<2	5	<10
MAY												
22...	469	<17	<1	<2.0	123	<1	35	<1.0	<.8	<1	2	<10
AUG												
21...	531	3	<1	<2.0	144	<1	55	<1.0	<.8	<1	2	<10

08383500 PECOS RIVER NEAR PUERTO DE LUNA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	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)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)
DEC											
13...	<2	4	<.3	5	13	<2.4	E2	<2	5	<1	.1
JAN											
04...	<2	5	<.3	3	6	<2.4	E2	<2	5	--	--
MAY											
22...	<1	2	<.3	1	2	<2.4	<3	<1	<3	--	--
AUG											
21...	<1	2	<.3	2	<1	<2.4	<3	<1	4	--	--

DATE	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC											
13...	<.4	2.2	2	3000	4.0	360	<.01	10	2	80	92
JAN											
04...	--	--	--	--	--	--	--	--	<2	136	82
MAY											
22...	--	--	--	--	--	--	--	--	1	611	19
AUG											
21...	--	--	--	--	--	--	--	--	2	454	17

08384000 LAKE SUMNER NEAR FORT SUMNER, NM

LOCATION.--Lat 34°36'30", long 104°23'04", in SE$^1/_4$SW$^1/_4$ 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, 94,750 acre-ft, from capacity table dated August 1992, between elevation 4,200.0 ft, sill of outlet gate, and elevation 4,275.0 ft, normal operating level. Capacity by original survey was 132,200 acre-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, 42,230 acre-ft, Oct. 1, elevation, 4,260.45 ft; minimum, 6,740 acre-ft, Sept. 30, elevation, 4,238.78 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42230	22680	26530	32330	35240	16340	15870	27820	24870	26230	12380	8700
2	42180	22820	26660	32500	35290	16290	15870	27710	25830	26130	12360	8640
3	42040	22970	27520	32680	35400	16230	15850	27590	26450	25970	12300	8580
4	41960	23130	28590	32680	35540	16200	15800	27520	26470	25770	12100	8500
5	41850	23240	29070	32800	35610	16140	15770	27460	26470	25610	11940	8410
6	41740	23420	29220	32900	35690	16080	15740	27340	26720	25420	11760	8330
7	41600	23560	29360	32780	35810	15980	15640	27170	26860	25220	11670	8260
8	41520	23730	29490	32900	35890	16010	15570	27000	26860	25010	11490	8180
9	41410	23880	29620	33020	35990	15900	15500	26860	26760	24800	11440	8100
10	39350	24020	29730	33680	36040	15820	15440	25380	26720	24610	11360	8010
11	37200	24150	29910	33660	36190	15770	15400	22950	26680	24400	11330	7950
12	35640	24270	29980	33850	36240	15690	15290	21330	26620	24230	11400	7880
13	33320	24420	30110	33470	36360	15650	16430	20820	26530	24150	11750	7800
14	31630	24570	30290	33850	36390	15580	18130	20510	26530	24080	13600	7730
15	29640	24660	30310	34090	36440	15540	20040	20390	26410	24230	13690	7670
16	27610	24840	30430	34090	34360	15500	21920	20290	26350	24340	13510	7600
17	25280	24930	30560	34340	31910	15380	23800	20190	26210	24320	13360	7560
18	23730	25010	30650	34340	29890	15370	26070	20020	26150	22380	13230	7490
19	23330	25120	30830	34580	26940	15240	27650	19870	26070	20540	13140	7410
20	23290	25240	30880	34580	24300	15200	28570	19770	25990	20210	12970	7330
21	23240	25360	31040	34580	21940	15180	28740	19640	25910	19790	12770	7280
22	23200	25460	31150	34580	19560	15130	28700	19590	25810	19400	12500	7210
23	23130	25550	31310	34700	17160	15240	28570	19460	25650	19010	12200	7150
24	23070	25670	31400	34820	16620	15480	28480	19300	25510	18600	11850	7110
25	23020	25790	31540	34580	16590	15710	28400	21220	25300	18160	11120	7040
26	22950	25930	31680	34650	16550	15870	28270	23340	25070	17870	9920	7000
27	22880	26050	31820	34750	16490	16040	28200	24820	24850	17540	9280	6940
28	22840	26170	31940	34830	16420	16070	28070	25050	24720	17250	8940	6900
29	22730	26290	32030	34950	16430	16010	28010	25050	25710	16750	8940	6860
30	22660	26390	32140	35020	---	15940	27930	25030	26350	14980	8760	6740
31	22590	---	32260	35090	---	15870	---	24950	---	12760	8740	---
MAX	42230	26390	32260	35090	36440	16340	28740	27820	26860	26230	13690	8700
MIN	22590	22680	26530	32330	16420	15130	15290	19300	24720	12760	8740	6740
(+)	4251.84	4253.85	4256.53	4257.71	4248.06	4247.67	4254.59	4253.12	4253.83	4245.33	4241.47	4238.78
(++)	-19750	+3800	+5870	+2830	-18660	-560	+12060	-2980	+1400	-13590	-4020	-2000

CAL YR 1999 MAX 43940 MIN 19580 (++) +12800
WTR YR 2000 MAX 42230 MIN 6740 (++) -35600

(+) 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 estimated daily discharges, which are poor. Flow regulated by Lake Sumner (station 08384000) 0.3 mi upstream, since August 1937 and Santa Rosa Lake (station 08382810) 55.5 mi upstream, since April 1980. Diversions for irrigation of about 12,500 acres, 1959 determination, upstream from station. Several observations of water temperature were made during the year.

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	97	.00	19	24	30	107	106	102	84	132	104	96
2	97	.00	19	24	30	107	106	101	84	132	104	97
3	96	.02	20	24	29	107	104	100	85	132	132	97
4	97	.00	20	24	32	107	103	100	85	132	147	96
5	96	.00	20	24	32	107	104	100	84	133	137	96
6	97	.00	20	24	32	107	104	108	83	133	131	92
7	97	.00	20	24	32	107	103	108	83	133	131	90
8	96	.00	21	24	32	107	104	106	83	132	108	90
9	780	2.9	21	24	32	107	103	648	83	132	95	90
10	1090	6.1	21	24	32	107	100	1270	83	132	95	90
11	1080	8.7	21	24	22	107	108	1250	83	132	95	90
12	1070	10	21	24	16	107	110	1240	83	134	94	87
13	1060	10	21	23	16	107	109	1250	78	116	94	85
14	1060	10	21	27	52	107	108	1260	75	39	867	85
15	1040	10	21	28	878	107	109	1240	80	1.5	1260	86
16	1030	17	21	29	1270	107	108	1250	83	35	1300	86
17	1020	22	20	29	1270	107	111	1240	82	851	1280	86
18	408	21	21	29	1260	107	114	1230	82	1240	1280	86
19	96	19	21	29	1260	107	113	1230	82	1250	1280	85
20	96	19	21	29	1270	107	112	1240	82	1250	1270	85
21	95	19	21	29	1290	107	113	1240	82	1250	1290	86
22	95	19	21	29	1270	107	112	1240	95	1250	1290	85
23	95	20	23	29	711	37	112	1230	115	1250	1280	85
24	94	20	23	29	102	1.5	113	442	131	1250	1280	85
25	94	20	23	29	104	1.6	110	86	131	1240	1300	82
26	92	20	24	30	106	1.5	105	86	131	1240	844	82
27	92	20	24	30	106	42	104	87	131	1250	409	82
28	93	20	24	30	106	106	103	87	132	1240	248	82
29	93	18	24	30	107	106	102	85	132	1230	97	82
30	93	20	24	30	---	106	102	84	132	1240	97	82
31	56	---	24	30	---	106	---	84	---	466	97	---
TOTAL	11595	351.72	665	836	11529	2861.6	3215	19924	2859	19277.5	18236	2628
MEAN	374	11.7	21.5	27.0	398	92.3	107	643	95.3	622	588	87.6
MAX	1090	22	24	30	1290	107	114	1270	132	1250	1300	97
MIN	56	.00	19	23	16	1.5	100	84	75	1.5	94	82
AC-FT	23000	698	1320	1660	22870	5680	6380	39520	5670	38240	36170	5210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2000, BY WATER YEAR (WY)

MEAN	131	36.2	14.1	20.6	33.5	231	268	342	445	319	300	270
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1937 - 2000	
ANNUAL TOTAL	48789.12		93977.82			
ANNUAL MEAN	134		257		[b]202	
HIGHEST ANNUAL MEAN					710	1941
LOWEST ANNUAL MEAN					91.9	1954
HIGHEST DAILY MEAN	1520	Aug 6	1300	Aug 16,25	[c]26400	Sep 1 1942
LOWEST DAILY MEAN	.00	Nov 1	[a].00	Nov 1	.00	Sep 1 1937
ANNUAL SEVEN-DAY MINIMUM	.00	Nov 1	.00	Nov 1	.00	Feb 18 1952
ANNUAL RUNOFF (AC-FT)	96770		186400		146100	
10 PERCENT EXCEEDS	238		1240		804	
50 PERCENT EXCEEDS	96		95		84	
90 PERCENT EXCEEDS	19		20		.51	

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 U.S. 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$^1/_4$SW$^1/_4$SW$^1/_4$ 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 estimated daily discharges, 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	.01	.00	.00	.00	91	96	91	91	100	96	87
2	88	.01	.00	.00	.00	98	96	91	90	100	97	86
3	88	.00	.00	.00	.00	98	96	90	86	97	98	86
4	88	.00	.00	.00	.00	98	95	90	86	90	99	86
5	88	.00	.00	.00	.00	97	95	89	86	92	98	86
6	87	.00	.00	.00	.00	97	95	89	84	95	97	85
7	87	.00	.00	.00	.00	97	94	91	83	95	97	84
8	86	.00	.00	.00	.00	97	94	89	80	95	96	84
9	91	.00	.00	.00	.00	97	94	94	76	94	92	84
10	98	.00	.00	.00	.00	97	93	105	81	94	91	85
11	97	.00	.00	.00	.00	97	93	100	79	94	90	84
12	96	.00	.00	.00	.00	97	96	96	83	95	90	84
13	94	.00	.00	.00	.00	97	96	93	86	79	89	83
14	93	.00	.00	.00	.00	97	96	90	70	3.0	98	83
15	92	.00	.00	.00	78	97	96	88	67	2.8	91	83
16	92	.00	.00	.00	134	97	96	104	89	3.0	84	83
17	91	.00	.00	.00	137	97	96	105	87	70	83	83
18	84	.00	.00	.00	134	97	97	104	79	102	82	83
19	72	.00	.00	.00	132	97	96	103	79	91	81	83
20	74	.00	.00	.00	131	96	e97	102	79	91	80	83
21	77	.00	.00	.00	128	97	e96	101	77	91	80	83
22	71	.00	.00	.00	124	97	e95	100	77	91	82	84
23	76	.00	.00	.00	114	45	e94	101	96	91	83	84
24	86	.00	.00	.00	92	.45	e94	100	100	91	83	83
25	86	.00	.00	.00	89	.40	e95	97	100	90	83	83
26	86	.00	.00	.00	87	.40	93	95	100	90	83	81
27	86	.00	.00	.00	86	.40	93	95	100	89	92	81
28	86	.00	.00	.00	86	57	93	94	102	90	85	81
29	86	.00	.00	.00	85	93	92	93	87	90	84	81
30	86	.00	.00	.00	---	95	91	91	90	89	88	82
31	65	---	.00	.00	---	96	---	90	---	82	87	---
TOTAL	2665	0.02	0.00	0.00	1637.00	2517.65	2843	2961	2570	2566.8	2759	2508
MEAN	86.0	.001	.000	.000	56.4	81.2	94.8	95.5	85.7	82.8	89.0	83.6
MAX	98	.01	.00	.00	137	98	97	105	102	102	99	87
MIN	65	.00	.00	.00	.00	.40	91	88	67	2.8	80	81
AC-FT	5290	.04	.00	.00	3250	4990	5640	5870	5100	5090	5470	4970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

MEAN	69.1	.82	.39	7.15	6.85	56.8	75.7	78.4	85.0	81.5	78.8	74.4
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1939 - 2000	
ANNUAL TOTAL	19984.36		23027.47			
ANNUAL MEAN	54.8		62.9		51.8	
HIGHEST ANNUAL MEAN					62.9	2000
LOWEST ANNUAL MEAN					25.3	1942
HIGHEST DAILY MEAN	129	Aug 10	137	Feb 17	174	Jul 22 1941
LOWEST DAILY MEAN	.00	Jan 1	.00	Nov 3	.00	Apr 5 1939
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Nov 3	.00	Nov 5 1939
ANNUAL RUNOFF (AC-FT)	39640		45670		37540	
10 PERCENT EXCEEDS	96		97		97	
50 PERCENT EXCEEDS	87		86		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$^1/_4$SW$^1/_4$ 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 estimated daily discharges, which are fair. Diversion above gage for about 6,100 acres (1961 determination) part of which are below gage.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	34	20	24	33	23	9.2	4.8	3.5	50	66	22
2	12	17	19	24	33	15	9.2	5.0	9.2	47	33	20
3	12	12	19	24	33	15	8.0	4.6	4.6	48	27	19
4	13	9.0	21	25	33	14	6.5	4.4	3.4	50	42	16
5	13	7.3	20	24	36	13	6.3	4.1	3.4	48	39	16
6	13	6.4	19	24	35	13	5.5	4.4	1.9	47	32	15
7	13	5.9	19	24	35	13	5.1	13	1.4	47	31	11
8	14	5.5	19	25	36	12	4.9	8.8	1.3	47	28	10
9	333	5.5	19	25	36	12	4.7	164	3.7	46	6.3	9.8
10	862	4.9	20	25	35	12	4.5	944	e3.0	45	3.4	9.4
11	884	5.8	20	25	35	13	4.8	970	e2.6	45	e3.1	8.5
12	897	9.3	20	25	25	12	13	977	2.1	55	e3.6	8.4
13	897	12	21	25	20	12	11	989	1.9	86	e3.8	7.0
14	899	12	20	25	16	11	12	997	e2.5	99	335	6.8
15	888	12	20	29	371	11	11	1000	e2.7	33	956	6.8
16	873	12	20	30	1010	11	11	998	e2.9	16	1030	6.4
17	858	17	20	30	1040	11	11	990	3.2	311	1060	5.8
18	552	21	21	30	1040	11	15	986	e3.4	944	1060	5.8
19	71	20	20	31	1040	11	15	946	e3.7	1010	1050	5.6
20	48	20	21	31	1050	11	15	916	e4.0	1030	1060	5.4
21	46	20	21	31	1070	11	16	951	e4.1	1010	1080	5.4
22	36	20	21	31	1060	16	16	959	4.4	971	1080	5.4
23	28	20	21	31	838	65	16	984	6.8	974	1080	5.7
24	20	20	23	31	76	31	17	610	32	1020	1080	5.9
25	19	20	24	33	45	20	16	54	35	1030	1080	5.7
26	19	20	24	33	38	15	9.7	27	36	1040	828	5.2
27	18	20	23	33	33	9.3	8.0	17	38	1050	348	5.0
28	18	20	23	33	29	3.4	8.2	12	140	1050	220	5.0
29	18	20	24	33	27	3.8	6.3	7.9	156	1050	57	4.6
30	18	19	24	33	---	6.7	4.7	4.6	59	1040	31	4.1
31	43	---	24	33	---	8.5	---	3.4	---	650	26	---
TOTAL	8446	447.6	650	880	9208	445.7	300.6	14556.0	575.7	14989	13779.2	266.7
MEAN	272	14.9	21.0	28.4	318	14.4	10.0	470	19.2	484	444	8.89
MAX	899	34	24	33	1070	65	17	1000	156	1050	1080	22
MIN	11	4.9	19	24	16	3.4	4.5	3.4	1.3	16	3.1	4.1
AC-FT	16750	888	1290	1750	18260	884	596	28870	1140	29730	27330	529

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)

MEAN	90.5	60.9	15.4	25.2	105	154	16.3	224	469	215	326	147
MAX	272	321	48.5	53.6	318	411	51.4	576	888	537	572	530
(WY)	2000	1998	1996	1996	2000	1998	1999	1996	1995	1998	1997	1998
MIN	5.36	3.83	.85	1.57	2.79	8.53	1.98	2.73	12.8	17.7	27.4	6.54
(WY)	1997	1997	1997	1997	1997	1996	1995	1998	1999	1997	1998	1996

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000	
ANNUAL TOTAL	35840.6		64544.5			
ANNUAL MEAN	98.2		176		154	
HIGHEST ANNUAL MEAN					216	1998
LOWEST ANNUAL MEAN					77.9	1999
HIGHEST DAILY MEAN	5050	May 1	1080	Aug 21	5050	May 1 1999
LOWEST DAILY MEAN	1.3	Apr 3	1.3	Jun 8	.21	Sep 29 1997
ANNUAL SEVEN-DAY MINIMUM	2.6	Mar 28	2.3	Jun 6	.57	Apr 17 1997
INSTANTANEOUS PEAK FLOW			1110	Aug 21	5300	Apr 30 1999
INSTANTANEOUS PEAK STAGE			6.91	Aug 21	10.85	Apr 30 1999
INSTANTANEOUS LOW FLOW			1.2	Jun 8	.21	Sep 28 1997
ANNUAL RUNOFF (AC-FT)	71090		128000		111700	
10 PERCENT EXCEEDS	168		972		903	
50 PERCENT EXCEEDS	19		20		14	
90 PERCENT EXCEEDS	5.9		4.7		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., De Baca County, Hydrologic Unit 13060003, on left bank 0.6 mi downstream from Taiban Creek, 11.0 mi southeast of Fort Sumner, and at mile 665.7.

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 daily discharges, which are poor. Flow partly regulated by Sumner Dam (station 08384000) 23 mi upstream. Diversion for irrigation of about 19,100 acres (1959 determination) above station. Discharge represents in general, return flow from irrigated areas in Fort Sumner Irrigation Project.

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	81	106	44	41	47	58	101	52	52	84	191	69
2	76	63	42	40	47	51	107	44	63	85	114	66
3	79	53	42	42	47	46	84	47	60	84	84	64
4	76	48	47	42	45	49	60	45	63	85	87	60
5	65	46	45	44	46	49	50	43	109	77	106	57
6	62	44	42	44	48	49	56	39	63	70	92	58
7	68	42	40	45	48	44	44	46	68	69	84	58
8	54	42	40	45	47	53	44	47	74	73	86	54
9	106	40	40	45	47	48	45	47	66	73	82	54
10	811	39	39	44	47	52	46	860	52	65	75	50
11	874	37	40	44	47	51	46	1080	48	75	73	51
12	889	37	40	43	45	48	43	1110	65	103	71	56
13	899	39	39	43	37	57	58	1100	102	188	69	53
14	896	40	41	44	35	51	49	1110	67	145	116	49
15	901	39	40	44	107	46	48	1120	63	87	884	48
16	907	39	40	46	1070	46	55	1100	43	56	1020	53
17	949	39	41	46	1110	50	49	1100	47	107	1040	57
18	818	44	41	46	1130	53	49	1090	50	1030	1050	52
19	166	44	40	46	1130	49	54	1100	44	1080	1060	52
20	109	42	41	45	1120	49	60	1090	38	1090	1060	51
21	94	45	42	46	1160	54	55	1080	44	1090	1070	51
22	87	46	43	46	1150	82	57	1080	39	1070	1070	57
23	102	44	42	46	1120	126	e50	1080	41	1070	1060	52
24	85	44	43	45	199	87	e52	899	49	1070	1060	57
25	86	45	43	45	94	52	e55	191	64	1070	1050	59
26	73	44	43	46	82	47	55	121	68	1050	940	57
27	63	45	42	46	69	42	54	88	76	1040	359	54
28	66	45	42	46	66	37	49	71	77	1040	257	52
29	80	45	42	46	57	57	48	65	256	1040	173	53
30	102	44	42	46	---	72	53	55	109	1040	88	53
31	97	---	41	47	---	92	---	54	---	873	73	---
TOTAL	9821	1370	1289	1384	10297	1747	1676	17054	2060	16179	14644	1657
MEAN	317	45.7	41.6	44.6	355	56.4	55.9	550	68.7	522	472	55.2
MAX	949	106	47	47	1160	126	107	1120	256	1090	1070	69
MIN	54	37	39	40	35	37	43	39	38	56	69	48
AC-FT	19480	2720	2560	2750	20420	3470	3320	33830	4090	32090	29050	3290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2000, BY WATER YEAR (WY)

MEAN	202	76.8	31.6	33.7	117	183	115	241	478	295	419	197
MAX	370	353	58.9	62.6	355	457	497	640	971	680	884	582
(WY)	1994	1998	1996	1996	2000	1998	1993	1996	1995	1993	1994	1998
MIN	66.3	24.5	18.7	14.7	15.1	38.3	40.6	40.5	68.5	70.2	88.6	55.2
(WY)	1996	1997	1997	1997	1993	1993	1995	1998	1999	1997	1996	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1992 - 2000	
ANNUAL TOTAL	47519		79178			
ANNUAL MEAN	130		216		199	
HIGHEST ANNUAL MEAN					253	1995
LOWEST ANNUAL MEAN					117	1999
HIGHEST DAILY MEAN	2130	May 1	1160	Feb 21	2130	May 1 1999
LOWEST DAILY MEAN	31	Mar 3	35	Feb 14	11	Feb 11 1994
ANNUAL SEVEN-DAY MINIMUM	34	Feb 18	39	Nov 10	12	Feb 7 1994
INSTANTANEOUS PEAK FLOW			1190	Feb 21	4580	May 1 1999
INSTANTANEOUS PEAK STAGE			5.39	Feb 21	8.35	May 1 1999
INSTANTANEOUS LOW FLOW			29	Feb 15	6.9	Jan 4 1997
ANNUAL RUNOFF (AC-FT)	94250		157000		144000	
10 PERCENT EXCEEDS	271		1050		966	
50 PERCENT EXCEEDS	54		54		58	
90 PERCENT EXCEEDS	36		42		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 (operated as a low flow station only).

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 poor. Flow partly regulated by Lake Summer (station 08384000). Diversion for irrigation of about 19,100 acres (1959 determination) above station.

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	23	e104	e47	43	42	87	75	e53	63	133	653	104
2	35	e95	e46	43	40	79	85	e45	64	103	239	88
3	34	e60	e46	42	40	69	91	e49	60	90	163	77
4	37	e55	e45	44	40	63	78	e47	59	82	119	70
5	51	e53	e45	45	40	58	59	e44	59	74	112	63
6	72	e52	e44	46	41	55	48	e41	87	74	117	59
7	71	e51	e43	46	41	52	e53	e50	55	60	107	55
8	84	e51	e43	46	41	45	e43	e52	49	57	96	50
9	77	e50	e42	46	40	49	e42	e54	49	59	96	44
10	e800	e49	e41	44	40	44	e43	e850	54	60	91	42
11	e859	e47	e42	45	40	47	e44	e1050	40	59	79	36
12	e980	e47	e42	43	40	46	e44	e1100	34	66	70	35
13	e895	e49	e41	42	40	45	e42	e1090	49	103	67	39
14	e893	e50	e41	41	35	49	e52	e1090	60	172	64	37
15	e900	e49	e42	42	32	44	e49	e1100	50	147	199	34
16	e905	e49	e41	42	265	40	e47	e1090	44	98	839	32
17	e935	e48	e42	43	809	40	e50	e1090	39	63	966	31
18	e815	e50	e42	44	921	42	e48	e1080	41	192	998	37
19	e165	e50	e41	44	952	44	e48	e1060	53	918	1020	33
20	e100	e49	e42	43	928	41	e50	e1060	134	967	1030	34
21	e90	e50	e43	43	1050	41	e57	e1050	55	1000	1050	32
22	e86	e52	e44	44	1080	56	e53	e1050	51	1010	1100	32
23	e100	e50	e43	44	984	82	e52	e1040	47	1010	1090	38
24	e83	e50	e44	43	714	103	e50	e850	44	1030	1070	39
25	e85	e51	e44	42	305	70	e45	e170	50	1040	1060	40
26	e70	e50	e44	42	175	49	e47	e110	61	1030	1080	44
27	e61	e49	e43	42	145	40	e49	e80	72	1060	729	43
28	e65	e49	e43	42	120	35	e50	e80	124	1070	387	38
29	e80	e48	e43	43	99	30	e48	e70	151	1070	279	39
30	e100	e48	e43	43	---	39	e54	e71	217	1130	189	37
31	e90	---	43	43	---	57	---	66	---	1090	133	---
TOTAL	9641	1605	1335	1345	9139	1641	1596	16732	2015	15117	15292	1382
MEAN	311	53.5	43.1	43.4	315	52.9	53.2	540	67.2	488	493	46.1
MAX	980	104	47	46	1080	103	91	1100	217	1130	1100	104
MIN	23	47	41	41	32	30	42	41	34	57	64	31
AC-FT	19120	3180	2650	2670	18130	3250	3170	33190	4000	29980	30330	2740

CAL YR 1999 TOTAL 44661 MEAN 122 MAX 1770 MIN 11 AC-FT 88590
WTR YR 2000 TOTAL 76840 MEAN 210 MAX 1130 MIN 23 AC-FT 152400

e Estimated

08385648 PECOS RIVER ABOVE ACME, NM

LOCATION.--Lat 33°41'09", long 104°18'59", in SW$^1/_4$NE$^1/_4$ sec. 31, T.7 S., R.26 E., Chaves County, Hydrologic Unit 13060007, on left bank 0.5 mi upstream from Eightmile Draw, 2.5 mi upstream from boundary for Bitter Lake National Wildlife Refuge, 4.6 miles downstream from Sand Creek and at mile 596.3.

PERIOD OF RECORD.--August 1992 to May 2000 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 3,550 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	103	43	34	33	62	48	35	---	---	---	---
2	41	100	41	33	33	70	52	33	---	---	---	---
3	47	114	40	30	32	58	55	33	---	---	---	---
4	49	88	43	39	31	58	55	33	---	---	---	---
5	54	77	44	43	33	55	52	34	---	---	---	---
6	53	72	41	31	34	57	44	35	---	---	---	---
7	48	70	39	32	34	60	40	36	---	---	---	---
8	42	67	39	31	36	58	36	37	---	---	---	---
9	42	e65	50	28	37	55	35	39	---	---	---	---
10	40	e56	47	29	37	53	34	41	---	---	---	---
11	126	e48	45	30	37	58	34	50	---	---	---	---
12	258	e46	37	29	37	61	34	900	---	---	---	---
13	385	e43	37	30	38	57	34	957	---	---	---	---
14	405	e38	36	29	40	51	33	925	---	---	---	---
15	388	e34	35	30	40	51	31	990	---	---	---	---
16	407	e32	37	30	38	51	38	1020	---	---	---	---
17	466	e32	35	30	197	51	38	937	---	---	---	---
18	455	e31	42	29	250	49	31	918	---	---	---	---
19	351	e31	38	30	252	50	31	878	---	---	---	---
20	137	e32	35	30	257	49	33	835	---	---	---	---
21	115	e31	36	30	554	47	34	951	---	---	---	---
22	108	e33	36	29	625	54	34	963	---	---	---	---
23	105	e36	36	30	647	68	35	968	---	---	---	---
24	100	e40	36	30	556	86	33	1030	---	---	---	---
25	112	46	38	30	131	95	33	1030	---	---	---	---
26	101	46	40	30	64	88	33	388	---	---	---	---
27	101	47	39	31	52	66	32	227	---	---	---	---
28	95	46	38	30	57	52	33	147	---	---	---	---
29	83	45	37	32	51	43	36	109	---	---	---	---
30	83	44	36	31	---	42	32	85	---	---	---	---
31	86	---	35	32	---	41	---	e73	---	---	---	---
TOTAL	4925	1593	1211	962	4263	1796	1123	14737	---	---	---	---
MEAN	159	53.1	39.1	31.0	147	57.9	37.4	475	---	---	---	---
MAX	466	114	50	43	647	95	55	1030	---	---	---	---
MIN	40	31	35	28	31	41	31	33	---	---	---	---
AC-FT	9770	3160	2400	1910	8460	3560	2230	29230	---	---	---	---

CAL YR 1999 TOTAL 39088 MEAN 107 MAX 4670 MIN 14 AC-FT 77530

e Estimated

08386000 PECOS RIVER NEAR ACME, NM

LOCATION.--Lat 33°32'10", long 104°22'34", in SW$^1/_4$NW$^1/_4$ 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 estimated daily discharges, 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	103	27	31	34	128	31	32	61	271	862	135
2	36	109	26	30	35	124	60	31	56	175	537	99
3	37	121	26	29	35	107	81	26	54	101	269	79
4	50	96	29	27	33	95	89	28	44	75	164	65
5	50	74	32	29	32	81	91	20	39	62	144	55
6	55	63	32	34	33	73	65	16	49	90	142	46
7	51	56	31	31	32	63	44	13	34	52	142	42
8	44	51	32	33	32	60	31	9.6	55	47	110	37
9	38	47	46	31	33	56	28	7.4	31	37	82	32
10	47	42	50	30	32	50	29	6.1	29	33	65	28
11	117	37	42	30	30	49	28	4.3	25	32	57	22
12	684	34	35	29	30	48	30	892	26	37	53	19
13	760	31	32	29	29	49	32	986	17	58	47	16
14	800	29	31	29	29	46	33	934	12	86	44	13
15	836	26	31	28	30	45	25	919	12	118	41	11
16	881	26	30	28	25	47	28	928	21	134	40	8.9
17	926	26	30	29	425	41	29	876	17	100	685	7.3
18	1010	25	29	30	1050	34	29	869	34	61	811	5.9
19	930	24	31	30	1190	31	29	882	53	36	725	4.8
20	e250	24	30	31	1210	32	29	923	26	774	765	3.8
21	e180	24	29	31	1240	34	26	905	128	847	815	3.4
22	e170	26	29	31	1290	37	28	859	103	903	844	2.2
23	e160	26	30	30	1310	61	26	851	40	952	871	2.4
24	e155	26	31	30	1240	78	31	848	23	879	940	3.0
25	e150	26	34	30	541	95	29	906	16	950	917	3.3
26	e145	27	35	29	326	117	29	513	11	987	900	6.5
27	142	27	35	30	225	74	30	330	e12	884	852	6.7
28	127	28	35	30	180	49	27	205	e24	840	518	7.4
29	109	27	34	30	154	37	29	137	e90	889	396	8.4
30	98	27	33	33	---	29	32	98	134	882	321	7.0
31	89	---	31	33	---	23	---	74	---	874	234	---
TOTAL	9167	1308	1008	935	10885	1893	1128	14128.4	1276	12266	13393	780.0
MEAN	296	43.6	32.5	30.2	375	61.1	37.6	456	42.5	396	432	26.0
MAX	1010	121	50	34	1310	128	91	986	134	987	940	135
MIN	36	24	26	27	25	23	25	4.3	11	32	40	2.2
AC-FT	18180	2590	2000	1850	21590	3750	2240	28020	2530	24330	26570	1550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

MEAN	151	60.7	27.0	26.3	34.9	168	203	283	317	318	273	294
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1938 - 2000	
ANNUAL TOTAL	54779		68167.4			
ANNUAL MEAN	150		186		180	
HIGHEST ANNUAL MEAN					964	1941
LOWEST ANNUAL MEAN					56.8	1964
HIGHEST DAILY MEAN	4890	May 1	1310	Feb 23	29500	Sep 23 1941
LOWEST DAILY MEAN	11	Apr 29	2.2	Sep 22	.00	May 23 1938
ANNUAL SEVEN-DAY MINIMUM	17	Apr 23	3.3	Sep 19	.00	May 23 1938
INSTANTANEOUS PEAK FLOW			1390	Feb 23	[a]45000	Sep 23 1941
INSTANTANEOUS PEAK STAGE			5.84	Feb 23	13.71	Sep 23 1941
INSTANTANEOUS LOW FLOW			1.7	Sep 22	1.3	Jun 3 1998
ANNUAL RUNOFF (AC-FT)	108700		135200		130600	
10 PERCENT EXCEEDS	326		860		690	
50 PERCENT EXCEEDS	49		37		25	
90 PERCENT EXCEEDS	26		23		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$^1/_4$SW$^1/_4$NW$^1/_4$, sec. 19, T.11S., R.13E., Lincoln County, Hydrologic Unit 13060008, on right bank at Village of Ruidoso, 2.6 mi to N.M. State 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 117 ft^3/s, July 7 gage height, 2.53 ft, minimum 0.43 ft^3/s, Jan. 30.

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	2.9	2.2	1.7	1.5	.87	1.1	1.3	1.1	.81	48	4.4	2.4
2	2.7	2.1	1.6	1.3	.80	1.1	1.2	.99	.96	46	3.9	2.2
3	2.8	2.1	1.5	1.1	.98	1.1	1.3	.86	1.2	35	3.8	2.0
4	2.7	2.0	1.5	1.1	.92	1.2	1.2	.75	1.6	26	3.5	1.9
5	2.6	2.0	2.0	1.3	.86	1.2	1.3	.61	1.9	25	3.3	1.8
6	2.6	2.0	1.9	1.2	.85	1.2	1.3	.62	1.5	28	3.3	1.7
7	2.5	2.1	1.8	1.1	.84	1.3	1.2	.67	1.4	38	3.9	1.7
8	2.6	2.1	1.8	1.1	.74	1.3	1.3	.69	1.3	84	4.3	1.9
9	2.5	2.1	1.7	1.0	.75	1.4	1.4	.67	1.3	64	3.9	2.9
10	2.4	2.1	1.7	1.0	.74	1.4	1.6	.62	1.1	56	5.6	1.9
11	2.3	2.1	1.6	1.1	.74	1.3	1.8	.61	1.1	48	4.9	1.7
12	2.3	2.0	1.5	.99	.76	1.3	1.8	.62	1.0	47	3.9	1.7
13	2.3	2.0	1.6	.95	.76	1.2	1.8	.67	1.0	41	3.6	1.6
14	2.2	2.0	1.4	.96	.83	1.2	1.9	.68	.96	34	3.1	1.6
15	2.2	1.9	1.6	.98	.85	1.1	2.0	.66	.94	27	2.8	1.5
16	2.3	1.9	1.9	.98	.86	1.2	2.0	.63	.94	22	2.6	1.5
17	3.8	1.9	1.9	1.1	.86	1.1	2.1	.59	1.0	18	4.2	1.4
18	3.5	1.8	1.7	1.0	.87	1.0	2.1	.58	7.1	15	4.1	1.4
19	3.4	1.8	1.5	1.0	.86	1.0	2.0	.60	5.0	13	2.8	1.4
20	3.2	1.8	1.5	1.0	.91	1.0	2.1	.62	9.0	11	2.6	1.3
21	3.0	1.7	1.5	.98	.92	1.0	2.1	.62	6.5	9.6	2.4	1.2
22	2.8	1.8	1.5	.99	1.0	1.2	1.9	.60	5.3	8.3	2.4	1.2
23	2.6	1.5	1.5	.95	1.0	1.3	1.8	.59	6.2	7.4	2.2	1.1
24	2.6	1.6	1.6	.94	1.0	1.3	1.7	.59	4.8	7.5	2.1	1.2
25	2.6	1.4	1.6	.92	1.0	1.2	1.6	.58	4.2	6.2	2.1	1.2
26	2.5	1.8	1.4	.91	.92	1.1	1.5	.57	3.9	6.5	2.3	1.1
27	2.5	1.7	1.4	.90	1.1	1.1	1.4	.55	4.3	6.7	2.3	.99
28	2.5	1.6	1.3	.85	1.1	1.2	1.3	.55	11	5.6	2.4	.99
29	2.3	1.6	1.3	.73	1.0	1.2	1.2	.54	46	4.8	2.9	1.0
30	2.3	1.6	1.2	.84	---	1.1	1.1	.53	44	5.0	4.4	.99
31	2.3	---	1.3	.92	---	1.1	---	.60	---	4.6	3.1	---
TOTAL	81.8	56.3	49.0	31.69	25.69	36.5	48.3	20.16	177.31	798.2	103.1	46.47
MEAN	2.64	1.88	1.58	1.02	.89	1.18	1.61	.65	5.91	25.7	3.33	1.55
MAX	3.8	2.2	2.0	1.5	1.1	1.4	2.1	1.1	46	84	5.6	2.9
MIN	2.2	1.4	1.2	.73	.74	1.0	1.1	.53	.81	4.6	2.1	.99
AC-FT	162	112	97	63	51	72	96	40	352	1580	204	92

CAL YR 1999 TOTAL 2589.2 MEAN 7.09 MAX 47 MIN 1.2 AC-FT 5140
WTR YR 2000 TOTAL 1474.52 MEAN 4.03 MAX 84 MIN .53 AC-FT 2920

08387000 RIO RUIDOSO AT HOLLYWOOD, NM

LOCATION.--Lat 33°19'36", long 105°37'38", in SE$^1/_4$SE$^1/_4$NE$^1/_4$ sec.25, T.11 S., R.13 E., Lincoln County, Hydrologic Unit 13060008, on center pier on downstream side of bridge on Frieden Bloom Street in Hollywood, NM, 0.1 mi north of U.S. Highway 70, 0.7 mi downstream from Gavilan Canyon, 1.7 mi downstream from Carrizo Creek, and at mile 24.4.

DRAINAGE AREA.--120 mi^2, approximately.

PERIOD OF RECORD.--March 1953 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,420 ft above National Geodetic Vertical Datum of 1929, from topographic map. Mar. 14, 1953 to Mar. 28, 1985, at site 0.95 mi downstream at different datum.

REMARKS.--Records good, except for estimated daily discharges which are fair. Village of Ruidoso diverts from right bank 7.0 mi upstream for municipal use and returns a portion of this water as effluent from sewage disposal plant downstream from the gage.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Sept. 29, 1941, is probably the highest since at least 1904 (discharge not determined).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	9.4	9.7	8.2	e5.6	7.1	7.4	6.0	5.2	44	9.0	7.7
2	9.0	9.4	9.8	8.0	e5.5	7.0	7.2	6.0	5.4	45	8.4	7.3
3	8.9	9.2	9.4	7.6	6.8	6.9	7.1	5.9	6.6	37	8.5	7.0
4	9.1	8.9	9.9	7.5	e7.2	6.7	7.1	5.9	7.6	30	8.1	7.0
5	9.0	8.9	9.6	8.3	e6.6	7.1	7.0	5.8	7.3	30	8.0	6.9
6	8.9	8.9	10	8.1	e6.3	7.1	7.0	5.8	8.0	31	8.1	6.7
7	8.9	8.9	10	7.9	5.8	7.7	6.9	5.7	7.5	36	10	6.7
8	9.0	8.9	10	8.0	5.0	7.2	6.8	5.7	7.5	62	12	7.0
9	9.4	8.9	10	e7.8	4.6	7.1	7.1	5.5	7.2	49	13	7.9
10	8.9	8.9	10	7.7	4.9	7.0	7.4	5.5	7.4	49	17	6.9
11	8.9	8.9	9.7	7.4	5.0	7.1	8.1	5.5	7.4	44	15	6.6
12	8.9	8.9	8.9	7.6	4.8	7.1	6.9	5.8	7.8	37	9.6	6.5
13	8.9	9.0	9.1	7.6	4.8	7.1	6.5	5.8	7.4	33	8.8	6.3
14	8.9	9.4	9.9	7.2	5.2	6.9	6.6	5.9	7.5	27	8.1	6.1
15	9.2	9.4	8.5	7.4	5.2	6.7	6.7	5.8	7.4	21	7.7	6.1
16	9.7	9.4	9.4	e7.2	5.2	6.8	6.7	6.0	7.4	20	7.5	6.0
17	15	9.4	9.4	7.1	5.2	6.7	6.6	6.3	9.2	14	8.4	6.0
18	13	9.4	8.8	7.1	5.5	6.7	6.5	6.0	18	13	8.6	6.0
19	12	9.4	8.5	7.0	5.6	6.7	6.3	6.1	18	10	7.4	6.0
20	12	9.6	8.3	e6.9	5.8	6.7	6.3	6.1	13	8.8	7.1	5.9
21	11	9.4	8.4	e7.1	5.5	6.7	6.3	6.2	8.4	8.4	7.0	5.9
22	11	9.4	8.5	e7.3	6.4	7.0	6.3	6.1	7.8	8.6	6.9	5.8
23	11	9.7	8.0	e7.2	6.5	7.0	6.3	5.7	10	8.2	6.8	6.2
24	10	9.4	8.5	e7.2	6.4	6.8	6.3	5.7	7.5	9.6	6.7	6.3
25	9.7	9.4	8.9	e7.1	6.5	6.7	6.0	5.9	7.2	8.4	6.8	6.3
26	9.4	10	8.6	e7.0	6.6	6.7	5.9	5.8	7.1	9.2	7.0	6.3
27	9.4	10	8.6	e6.8	6.7	6.7	5.9	5.7	19	10	7.1	6.2
28	9.4	9.4	8.5	e6.7	6.7	6.9	5.9	5.5	21	9.2	7.7	6.1
29	9.4	9.7	8.0	e6.4	6.7	6.7	5.9	5.9	58	9.8	11	5.9
30	9.4	9.8	7.9	e6.0	---	6.7	5.9	5.6	44	11	11	6.0
31	9.4	---	8.0	e5.8	---	6.9	---	4.9	---	9.8	8.1	---
TOTAL	305.9	279.3	280.8	226.2	168.6	214.2	198.9	180.1	362.8	743.0	276.4	193.6
MEAN	9.87	9.31	9.06	7.30	5.81	6.91	6.63	5.81	12.1	24.0	8.92	6.45
MAX	15	10	10	8.3	7.2	7.7	8.1	6.3	58	62	17	7.9
MIN	8.9	8.9	7.9	5.8	4.6	6.7	5.9	4.9	5.2	8.2	6.7	5.8
AC-FT	607	554	557	449	334	425	395	357	720	1470	548	384

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2000, BY WATER YEAR (WY)

MEAN	20.6	16.9	21.5	16.8	20.6	32.3	41.2	36.1	19.4	19.3	37.7	25.4
MAX	80.8	69.0	130	61.5	58.6	91.2	104	101	52.3	49.9	162	63.4
(WY)	1987	1987	1985	1985	1985	1985	1992	1992	1986	1986	1984	1988
MIN	7.69	7.43	6.59	7.30	5.81	6.91	6.63	5.81	5.96	7.94	8.25	6.45
(WY)	1995	1982	1982	2000	2000	2000	2000	2000	1982	1982	1983	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1982 - 2000	
ANNUAL TOTAL	4358.7		3429.8			
ANNUAL MEAN	11.9		9.37		[a]25.7	
HIGHEST ANNUAL MEAN					49.7	1987
LOWEST ANNUAL MEAN					9.37	2000
HIGHEST DAILY MEAN	55	Aug 10	62	Jul 8	1130	Dec 20 1984
LOWEST DAILY MEAN	7.1	Jun 11	4.6	Feb 9	1.9	Aug 27 1994
ANNUAL SEVEN-DAY MINIMUM	7.3	Jun 6	4.9	Feb 8	2.4	Aug 24 1994
INSTANTANEOUS PEAK FLOW			128	Jun 28	[b]2120	Aug 11 1984
INSTANTANEOUS PEAK STAGE			2.56	Jun 28	[c]10.05	Jun 17 1965
INSTANTANEOUS LOW FLOW			4.2	Feb 8	.30	Jan 1 1962
ANNUAL RUNOFF (AC-FT)	8650		6800		18600	
10 PERCENT EXCEEDS	19		11		53	
50 PERCENT EXCEEDS	9.4		7.4		16	
90 PERCENT EXCEEDS	8.0		5.8		8.0	

e Estimated
a Average discharge for 28 years (water years 1954-81), 14.9 ft^3/s, 10,800 acre-ft/yr, for period when sewage disposal plant effluent was discharge upstream from gage.
b From rating curve extended above 510 ft^3/s, on basis of slope-area measurement of peak flow.
c Site and datum then in use.

08387600 EAGLE CREEK BELOW SOUTH FORK, NEAR ALTO, NM

LOCATION.--Lat 33°23'57", long 105°43'11", in SW$^1/_4$SW$^1/_4$ 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 fair except for estimated daily discharges, which are poor. No diversions for irrigation upstream from station. Some water is stored in small unregulated recreational ponds on the Mescalero Apache Indian Reservation upstream. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	.16	.13	.15	e.11	.05	.23	.02	.00	e7.0	.69	e.35
2	.14	.15	.11	.13	e.10	.05	.35	.00	.00	e6.7	.65	e.32
3	.12	.16	.09	.10	e.09	.05	.34	.00	.00	e5.1	.63	e.29
4	.11	.15	e.10	.10	e.09	.05	.25	.00	.00	e3.8	.57	e.28
5	.12	.15	e.14	.12	e.08	.05	.19	.00	.00	e3.6	.55	e.26
6	.11	.13	.18	e.12	e.09	.05	.13	.00	.00	e4.0	.53	e.25
7	.10	.12	.15	e.11	e.08	.06	.09	.00	e.00	e5.5	.56	e.25
8	.09	.12	.07	e.11	.08	.11	.08	.00	e.00	e12	1.0	e.28
9	.09	.11	.08	e.10	.09	.09	.08	.00	e.00	e9.3	e.31	e.42
10	.09	.11	.09	e.10	.08	.08	.07	.00	e.00	e8.1	e.80	e.20
11	.10	.11	.11	e.09	.08	.07	.07	.00	e.00	e7.0	e.71	e.14
12	.10	.10	.13	e.08	.07	.07	.09	.00	e.00	e6.8	e.56	.08
13	.10	.10	.16	e.09	.07	.07	.07	.00	e.00	e5.9	e.52	.23
14	.09	.10	.22	e.09	.07	.07	.06	.00	e.00	e4.9	e.45	.68
15	.09	.10	e.20	e.08	.07	.06	.05	.00	e.00	e3.9	e.41	.44
16	.09	.10	e.16	e.08	.07	.06	.04	.00	e.14	e3.2	e.38	.84
17	.49	.10	e.12	e.07	.08	.06	.04	.00	e.15	e2.6	e.61	1.3
18	.55	.09	e.11	e.06	.06	.05	.03	.00	e1.0	e2.2	e.59	.95
19	.51	.09	e.15	e.07	.06	.05	.02	.00	e.72	e1.9	e.41	.26
20	.49	.09	e.14	e.07	.06	.04	.01	.00	e1.3	e1.6	e.38	.15
21	.46	.09	.14	e.08	.06	.04	.05	.00	e.94	e1.4	e.35	.66
22	.40	.09	.10	e.08	.07	.09	.10	.00	e.77	e1.2	e.35	.74
23	.35	.09	.10	e.07	.07	.19	.03	.00	e.90	e1.1	e.32	.25
24	.32	.12	.09	e.07	.07	.15	.01	.00	e.70	e1.1	e.30	.40
25	.29	.13	.10	e.08	.06	.10	.01	.00	e.61	.92	e.30	.73
26	.25	.11	.12	e.08	.06	.08	.01	.00	e.56	.88	e.33	.24
27	.23	.11	.11	e.07	.06	.07	.01	.00	e.62	.90	e.33	.30
28	.20	.12	.09	e.08	.06	.12	.01	.00	e1.6	.89	e.35	.34
29	.18	.12	.10	e.10	.05	.14	.01	.00	e6.7	.76	e.42	.19
30	.18	.13	.10	e.11	---	.09	.02	.00	e6.4	.72	e.64	.11
31	.17	---	.10	e.12	---	.09	---	.00	---	.71	e.45	---
TOTAL	6.76	3.45	3.79	2.86	2.14	2.40	2.55	0.02	23.11	115.68	15.45	11.93
MEAN	.22	.12	.12	.092	.074	.077	.085	.001	.77	3.73	.50	.40
MAX	.55	.16	.22	.15	.11	.19	.35	.02	6.7	12	1.0	1.3
MIN	.09	.09	.07	.06	.05	.04	.01	.00	.00	.71	.30	.08
AC-FT	13	6.8	7.5	5.7	4.2	4.8	5.1	.04	46	229	31	24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2000, BY WATER YEAR (WY)

MEAN	2.27	1.81	1.90	1.48	2.03	3.65	4.75	3.86	1.35	1.94	3.82	3.44
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	.22	.12	.12	.092	.074	.077	.085	.000	.014	.10	.31	.33
(WY)	2000	2000	2000	2000	2000	2000	2000	1996	1996	1971	1994	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1970 - 2000	
ANNUAL TOTAL	204.87		190.14			
ANNUAL MEAN	.56		.52		2.64	
HIGHEST ANNUAL MEAN					8.48	1979
LOWEST ANNUAL MEAN					.39	1971
HIGHEST DAILY MEAN	11	Jun 11	12	Jul 8	170	Dec 19 1978
LOWEST DAILY MEAN	.03	Jun 7	.00	May 2	.00	Jul 9 1989
ANNUAL SEVEN-DAY MINIMUM	.06	May 17	.00	May 2	.00	Jun 17 1990
INSTANTANEOUS PEAK FLOW					[a]206	Dec 19 1978
INSTANTANEOUS PEAK STAGE					6.87	Jul 30 1997
INSTANTANEOUS LOW FLOW					.00	Jul 9 1989
ANNUAL RUNOFF (AC-FT)	406		377		1920	
10 PERCENT EXCEEDS	.99		.89		6.9	
50 PERCENT EXCEEDS	.33		.11		1.1	
90 PERCENT EXCEEDS	.09		.00		.20	

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$^1/_4$NE$^1/_4$NE$^1/_4$, sec. 15, T.95., R.15E., 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.

DRAINAGE AREA.--

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 good.

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 983 ft^3/s, June 29, gage height, 4.68 ft, minimum .09 ft^3/s, Oct. 6, 8-10.

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	.15	e1.4	e.73	.60	.72	.33	.29	.45	.37	.22	.16	.18
2	.12	e1.4	e.70	.77	.72	.33	.27	.40	.39	.19	.17	.19
3	.10	e1.2	e.69	.79	.72	.33	.26	.32	.38	.19	.17	.20
4	.10	e1.1	e.70	.84	.73	.32	.26	.36	.41	.18	.16	.20
5	.10	e1.2	e.65	.83	.73	.32	.26	.42	.43	.17	.18	.20
6	.09	e1.3	e.58	.85	.73	.32	.24	.43	.43	.17	.19	.21
7	.10	e1.2	.53	.86	.73	.32	.25	.44	.39	.17	.19	.24
8	.09	e1.2	.52	.86	.69	.31	.25	.46	.39	.17	.20	.24
9	.09	e1.0	.52	.88	.67	.31	.26	.46	.39	.18	.20	.23
10	.09	1.0	.52	.86	.67	.32	.26	.28	.38	1.5	.18	.23
11	.44	e.98	.52	.86	.69	.32	.27	.23	.37	.52	.17	.24
12	.54	e.95	.52	.84	.72	.32	.31	.22	.36	.20	.15	.20
13	.65	e1.0	.51	.86	.72	.31	.29	.24	.35	.20	.13	.14
14	e.62	e1.1	.52	.86	.70	.29	.28	.25	.35	.23	.11	.14
15	e.62	e1.6	.52	.86	.72	.29	.29	.25	.35	.25	.11	.14
16	e.68	e1.6	.52	.69	.73	.29	.30	.24	.34	.25	.10	.14
17	e.76	e1.2	.54	.43	.73	.30	.31	.25	.36	.25	.10	.15
18	e.73	e1.2	.52	.39	.81	.30	.35	.26	.40	.20	.10	.16
19	e.68	e1.2	.52	.39	.80	.31	.39	.26	.39	.14	.11	.19
20	e.57	e1.1	.52	.39	.77	.32	.28	.27	.38	.14	.11	.21
21	e.56	e1.1	.52	.40	.83	.28	.21	.26	.39	.15	.11	.24
22	e.53	e1.1	.52	.39	.74	.32	.20	.29	.37	.16	.12	.23
23	e.51	e1.1	.49	.39	.47	.32	.20	.29	.37	.17	.12	.15
24	e.49	e.95	.47	.39	.47	.32	.22	.29	.34	.18	.12	.14
25	e.65	e.84	.47	.40	.47	.32	.22	.29	.34	.18	.14	.13
26	e.63	e.75	.47	.38	.47	.32	.22	.31	.35	.15	.16	.13
27	e.61	e.73	.47	.35	.44	.31	.22	.33	.35	.16	.13	.13
28	e.62	e.73	.47	.51	.34	.29	.22	.33	.40	.16	.14	.13
29	e.60	e.70	.51	.71	.33	.29	.25	.32	55	.16	.15	.13
30	e.83	e.70	.54	.71	---	.29	.34	.32	.26	.18	.22	.13
31	e1.4	---	.57	.70	---	.29	---	.35	---	.17	.19	---
TOTAL	14.75	32.63	16.85	20.04	19.06	9.61	7.97	9.87	65.78	7.34	4.59	5.37
MEAN	.48	1.09	.54	.65	.66	.31	.27	.32	2.19	.24	.15	.18
MAX	1.4	1.6	.73	.88	.83	.33	.39	.46	55	1.5	.22	.24
MIN	.09	.70	.47	.35	.33	.28	.20	.22	.26	.14	.10	.13
AC-FT	29	65	33	40	38	19	16	20	130	15	9.1	11

WTR YR 2000 TOTAL 213.86 MEAN .58 MAX 55 MIN .09 AC-FT 424

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 1999 TO SEPTEMBER 2000
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	1.0	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.6	.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	.34	.08	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.70	.44	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	1.0	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.24	1.1	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.50	.00	.00	.00	.00	11	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.3	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.3	.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	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.35	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	1.78	2.62	0.00	0.00	0.35	19.39	0.00	0.00
MEAN	.000	.000	.000	.000	.061	.085	.000	.000	.012	.63	.000	.000
MAX	.00	.00	.00	.00	.70	1.1	.00	.00	.35	11	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	3.5	5.2	.00	.00	.7	38	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	24.8	16.4	19.3	16.5	12.5	13.1	25.6	28.4	24.3	25.6	37.7	49.8
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	125.94		24.14			
ANNUAL MEAN	.35		.066		24.5	
HIGHEST ANNUAL MEAN					181	1941
LOWEST ANNUAL MEAN					.066	2000
HIGHEST DAILY MEAN	41	Jul 20	11	Jul 13	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
INSTANTANEOUS PEAK FLOW			38	Jul 13	[a]54800	Jun 18 1965
INSTANTANEOUS PEAK STAGE			5.65	Jul 13	[b]28.78	Sep 22 1941
INSTANTANEOUS LOW FLOW			.00	Oct 1	.00	Oct 1 1939
ANNUAL RUNOFF (AC-FT)	250		48		17790	
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 ft, Sept. 22, 1941.

08390600 TWO RIVERS RESERVOIR NEAR ROSWELL, NM

LOCATION.--08390610 Rio Hondo Reservoir: Lat 33°17'55", long 104°43'20", in SW$^1/_4$SE$^1/_4$NE$^1/_4$ 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$^1/_4$SE$^1/_4$NE1/ 4sec.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 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 NE$^1/_4$SE$^1/_4$NE$^1/_4$ 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 estimated daily discharges 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.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	.34	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.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	.06	.00	.00	.00
20	.00	.00	.00	.00	e.00	.00	.00	.00	.02	.00	.00	.00
21	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
22	e.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
23	e.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
24	e.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
25	e.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
26	e.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
27	e.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.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	0.08	0.35	0.00	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.003	.011	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.06	.34	.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	.2	.7	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

MEAN	12.8	11.1	14.5	15.3	13.1	13.6	19.5	15.6	8.53	7.21	24.0	23.9
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	23.42		0.43			
ANNUAL MEAN	.064		.001		14.9	
HIGHEST ANNUAL MEAN					85.6	1987
LOWEST ANNUAL MEAN					.001	2000
HIGHEST DAILY MEAN	20	Jul 21	.34	Jul 12	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
INSTANTANEOUS PEAK FLOW			11	Jul 12	659	Jul 29 1965
INSTANTANEOUS PEAK STAGE			1.71	Jul 12	4.91	Jul 29 1965
INSTANTANEOUS LOW FLOW					.00	Oct 1 1963
ANNUAL RUNOFF (AC-FT)	46		.9		10810	
10 PERCENT EXCEEDS	.00		.00		51	
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 fair except for estimated daily discharges, which are 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. Gage was temporarily discontinued March 1 for bridge construction and was re-established April 20, approximately 0.25 mi above bridge.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,350 ft^3/s, May 1, 1999, gage height, 15.96 ft, on basis of slope-area measurement of peakflow, minimum 1.3 ft^3/s, Feb. 16, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 680 ft^3/s, Sept. 7, gage height, 9.52 ft; minimum, 1.3 ft^3/s, Feb. 16.

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	4.4	6.0	3.5	8.9	22	---	---	3.8	9.4	7.7	4.3	6.5
2	4.5	3.9	3.6	9.2	11	---	---	3.9	7.2	4.6	3.9	6.4
3	5.2	3.9	3.6	8.9	7.3	---	---	4.1	7.9	4.3	3.9	6.3
4	4.8	8.2	4.1	9.0	7.6	---	---	4.2	8.6	4.7	4.0	6.2
5	4.8	7.9	3.3	9.3	9.6	---	---	4.3	8.3	3.8	3.9	6.2
6	4.8	3.9	3.4	8.7	9.7	---	---	4.5	7.0	3.6	3.9	6.5
7	5.0	3.9	3.4	8.8	9.5	---	---	4.5	7.1	3.4	4.6	34
8	5.0	6.8	3.3	8.9	7.9	---	---	4.6	7.1	3.3	4.0	7.2
9	4.6	7.6	4.2	9.1	5.6	---	---	4.9	e8.5	3.2	4.0	10
10	4.4	6.2	3.9	9.1	7.0	---	---	5.1	e8.0	3.6	4.0	4.6
11	4.2	3.9	3.8	8.7	7.5	---	---	5.2	e7.8	3.5	3.9	4.5
12	4.2	4.2	3.4	8.5	8.8	---	---	5.4	7.3	3.6	4.3	4.7
13	4.7	4.4	3.8	8.2	8.6	---	---	5.7	6.9	3.8	4.3	4.9
14	5.3	4.4	4.1	9.5	6.2	---	---	5.7	6.7	4.5	4.3	5.2
15	4.5	7.3	3.9	11	4.5	---	---	6.2	6.7	4.3	4.6	5.3
16	4.0	7.9	3.6	10	3.9	---	---	6.1	6.4	4.2	4.7	5.4
17	5.2	7.8	3.0	9.7	3.1	---	---	6.9	5.8	4.3	4.4	4.4
18	4.7	8.5	2.9	9.3	2.8	---	---	7.3	20	4.1	4.6	4.2
19	8.0	8.3	2.8	9.4	2.8	---	---	7.5	8.1	4.7	4.8	4.3
20	9.4	8.1	e2.8	9.7	3.3	---	3.2	7.4	e7.8	4.8	4.9	4.5
21	10	8.4	5.7	12	3.8	---	3.6	7.7	e7.6	4.7	5.0	4.5
22	10	8.9	6.2	15	3.7	---	3.5	7.7	e7.3	4.3	5.1	4.4
23	10	8.3	6.1	13	3.5	---	3.1	7.9	e7.1	4.7	5.3	4.5
24	10	7.7	6.5	8.5	3.8	---	3.2	8.9	e6.9	4.5	5.3	4.6
25	8.5	6.9	6.0	9.1	3.4	---	3.4	8.8	e6.7	4.4	5.4	4.1
26	8.1	7.0	6.1	14	3.5	---	3.4	8.8	e6.6	4.2	5.9	4.3
27	5.8	7.0	6.3	11	3.4	---	3.5	8.8	e6.4	4.2	5.8	4.6
28	4.2	6.9	6.9	11	4.3	---	3.6	9.0	6.8	4.0	5.6	4.6
29	4.1	7.0	7.5	11	e4.6	---	3.7	9.3	6.1	4.7	5.8	4.5
30	5.3	3.9	8.7	10	---	---	3.8	9.4	16	2.8	6.0	9.3
31	10	---	10	9.9	---	---	---	11	---	3.6	6.0	---
TOTAL	187.7	195.1	146.4	308.4	182.7	---	---	204.6	240.1	130.1	146.5	190.7
MEAN	6.05	6.50	4.72	9.95	6.30	---	---	6.60	8.00	4.20	4.73	6.36
MAX	10	8.9	10	15	22	---	---	11	20	7.7	6.0	34
MIN	4.0	3.9	2.8	8.2	2.8	---	---	3.8	5.8	2.8	3.9	4.1
AC-FT	372	387	290	612	362	---	---	406	476	258	291	378

CAL YR 1999 TOTAL 3142.8 MEAN 8.61 MAX 516 MIN 1.6 AC-FT 6230

e Estimated

08395500 PECOS RIVER NEAR LAKE ARTHUR, NM

LOCATION.--Lat 32°59'21", long 104°19'17", in SW$^1/_4$NE$^1/_4$ 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	137	75	96	94	190	e84	e46	103	e100	e920	308
2	101	128	75	95	95	173	e82	e46	93	e170	e880	189
3	100	126	77	95	95	156	e80	e49	e86	e240	e740	126
4	109	126	82	92	95	149	e90	55	e78	e180	e350	98
5	114	e129	84	91	96	139	e105	53	e74	e105	e220	83
6	130	e120	87	89	95	132	e116	49	e72	e72	e160	75
7	142	e115	90	89	95	131	e115	45	e64	e62	e130	69
8	148	e112	91	92	96	123	e106	e40	e60	e64	e115	64
9	155	e110	92	94	96	114	e88	e37	e64	e64	e105	60
10	165	e107	91	93	96	109	e80	e35	e60	e47	e100	57
11	170	e105	97	93	95	105	e74	e32	e63	e42	e94	53
12	197	e102	100	92	99	101	e74	e50	e55	e39	e84	50
13	699	e100	98	92	100	e100	e75	e350	e50	e37	e74	48
14	836	e97	94	92	102	e98	e78	e760	e49	e36	e68	45
15	879	e96	91	92	105	e90	e82	e900	e49	e38	e59	42
16	876	e94	90	93	99	e84	e77	e950	e45	e45	57	40
17	907	e92	87	93	100	e82	e73	986	e42	e50	53	38
18	959	e89	87	94	332	e85	e68	983	e46	e80	563	36
19	957	e88	87	94	827	e85	e64	990	e51	e71	919	35
20	862	e87	87	94	954	e88	e62	e990	e82	e55	957	32
21	502	e85	88	94	1020	e86	e58	e990	e75	e300	963	30
22	398	e77	90	95	1050	e83	e55	e980	e100	e800	962	30
23	340	76	91	95	1100	e84	e57	e960	e102	e840	957	30
24	291	76	92	95	1140	e90	e56	e950	e160	e860	956	30
25	254	76	93	94	1040	e110	e53	e950	e100	e880	959	29
26	226	75	94	94	436	e116	e50	e900	e64	e900	954	31
27	212	76	95	94	297	e125	e50	e500	e56	e900	948	32
28	193	75	96	94	255	e133	e50	e250	e52	e900	943	33
29	177	75	96	94	211	e118	e49	e190	e55	e910	652	33
30	162	75	97	92	---	e99	e48	e150	e60	e920	492	33
31	147	---	97	92	---	e88	---	120	---	e920	391	---
TOTAL	11506	2926	2791	2888	10315	3466	2199	14386	2110	10727	15825	1859
MEAN	371	97.5	90.0	93.2	356	112	73.3	464	70.3	346	510	62.0
MAX	959	137	100	96	1140	190	116	990	160	920	963	308
MIN	98	75	75	89	94	82	48	32	42	36	53	29
AC-FT	22820	5800	5540	5730	20460	6870	4360	28530	4190	21280	31390	3690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

MEAN	246	127	95.9	94.8	90.6	182	220	315	333	336	284	363
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1938 - 2000	
ANNUAL TOTAL	79944		80998			
ANNUAL MEAN	219		221		224	
HIGHEST ANNUAL MEAN					1314	1941
LOWEST ANNUAL MEAN					62.2	1964
HIGHEST DAILY MEAN	3140	May 4	1140	Feb 24	39800	Sep 24 1941
LOWEST DAILY MEAN	56	Sep 3	29	Sep 25	.00	Aug 21 1947
ANNUAL SEVEN-DAY MINIMUM	63	Sep 3	30	Sep 20	.10	Jul 26 1954
INSTANTANEOUS PEAK FLOW			1190	Feb 24	[a]49600	Sep 24 1941
INSTANTANEOUS PEAK STAGE			7.84	Feb 24	21.90	Sep 24 1941
INSTANTANEOUS LOW FLOW			29	Sep 22	[b].00	Oct 1 1946
ANNUAL RUNOFF (AC-FT)	158600		160700		162600	
10 PERCENT EXCEEDS	406		900		673	
50 PERCENT EXCEEDS	107		94		74	
90 PERCENT EXCEEDS	74		49		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, 1953, 1954, 1962 and 1964.

08396500 PECOS RIVER NEAR ARTESIA, NM

LOCATION.--Lat 32°50'27", long 104°19'23", in NW$^1/_4$NW$^1/_4$ 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 estimated daily discharges, 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. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1893 occurred Oct. 2, 1904, discharge not determined; the peak inflow to Lake McMillan, which includes Rio Penasco and Fourmile Draw, was estimated at 82,000 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	130	77	104	97	218	86	48	124	108	e900	304
2	67	124	74	99	99	197	83	48	111	186	e860	228
3	66	120	72	95	99	173	82	50	93	245	e770	167
4	61	125	77	92	99	160	91	56	85	198	392	136
5	64	124	80	89	99	150	107	55	78	115	241	116
6	63	128	83	86	99	140	118	51	77	75	180	103
7	74	114	85	83	98	132	120	45	68	64	145	91
8	71	104	86	88	97	131	109	42	65	65	122	81
9	74	99	88	93	96	119	90	39	69	63	114	74
10	76	95	83	91	94	109	81	38	64	49	104	76
11	75	94	85	92	92	107	76	35	69	45	98	61
12	72	90	90	91	89	102	76	32	60	40	87	61
13	314	88	90	89	91	99	78	210	62	39	81	54
14	588	86	84	89	90	99	80	742	52	37	73	50
15	764	85	79	89	92	91	84	839	52	40	66	47
16	793	82	78	89	88	86	78	e900	46	47	62	44
17	822	76	74	90	80	85	75	e900	43	53	59	41
18	891	77	71	91	150	87	70	e920	49	80	220	38
19	920	78	71	92	879	87	66	e950	56	73	e700	36
20	868	77	70	92	1130	90	64	e950	82	56	e770	32
21	614	74	71	93	1200	87	59	e960	76	274	e800	29
22	375	74	72	93	1220	85	56	e940	104	719	e840	29
23	298	78	73	94	1270	86	59	e930	103	e810	e850	29
24	248	78	74	94	1320	92	58	e920	165	e820	e850	29
25	212	80	76	94	1310	111	54	e930	103	e840	e840	29
26	187	82	77	94	728	117	51	e930	71	e870	e870	29
27	175	85	80	94	365	127	51	767	58	e860	e880	29
28	170	84	86	94	311	134	51	315	54	e870	e890	30
29	158	80	91	94	258	119	50	232	57	e880	e900	30
30	149	77	98	96	---	100	49	176	62	e900	564	30
31	141	---	107	97	---	89	---	149	---	e910	414	---
TOTAL	9521	2788	2502	2861	11740	3609	2252	14199	2258	10431	14742	2133
MEAN	307	92.9	80.7	92.3	405	116	75.1	458	75.3	336	476	71.1
MAX	920	130	107	104	1320	218	120	960	165	910	900	304
MIN	61	74	70	83	80	85	49	32	43	37	59	29
AC-FT	18880	5530	4960	5670	23290	7160	4470	28160	4480	20690	29240	4230
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2000, BY WATER YEAR (WY)												
MEAN	250	135	106	105	101	187	219	355	380	333	272	361
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1937 - 2000	
ANNUAL TOTAL	66804		79036			
ANNUAL MEAN	183		216		234	
HIGHEST ANNUAL MEAN					1378	1941
LOWEST ANNUAL MEAN					64.8	1964
HIGHEST DAILY MEAN	2250	May 5	1320	Feb 24	44300	Sep 25 1941
LOWEST DAILY MEAN	52	Apr 10	29	Sep 21	.00	Aug 14 1946
ANNUAL SEVEN-DAY MINIMUM	59	Apr 9	29	Sep 21	.00	Aug 14 1946
INSTANTANEOUS PEAK FLOW			1400	Feb 23	[a]51500	May 30 1937
INSTANTANEOUS PEAK STAGE			8.83	Aug 26	14.70	May 30 1937
INSTANTANEOUS LOW FLOW			22	Sep 26	.00	Oct 1 1934
ANNUAL RUNOFF (AC-FT)	132500		156800		169800	
10 PERCENT EXCEEDS	323		840		668	
50 PERCENT EXCEEDS	94		90		80	
90 PERCENT EXCEEDS	69		50		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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC												
14...	1105	83	680	100	11.4	8.2	7410	10.0	4.0	2000	1800	531
JAN												
05...	0820	91	684	92	11.5	8.3	7660	2.5	.5	2000	1800	519
MAY												
23...	0710	1260	675	89	6.8	8.1	1630	22.0	22.0	720	630	231
AUG												
22...	0815	1150	683	86	6.4	8.1	1390	28.0	24.5	670	580	204

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
DEC												
14...	166	6.4	9	911	170	166	203	0	1690	.8	15.7	1640
JAN												
05...	170	3.3	9	937	183	178	217	0	1740	.9	20.5	1670
MAY												
23...	34.5	2.3	1	67.8	194	92	113	0	89.5	.5	8.9	653
AUG												
22...	37.7	2.6	.9	55.0	202	90	110	0	81.7	.5	10.6	531

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	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)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
DEC												
14...	.26	.38	.12	2.2	.080	<2	1.20	.020	.030	<.010	.040	<40
JAN												
05...	.82	.88	.70	--	.660	--	1.70	.080	.050	.050	.070	--
MAY												
23...	<.20	1.3	.14	--	.020	--	.070	<.010	<.020	<.010	.670	--
AUG												
22...	<.20	1.6	.07	--	.020	--	.120	<.010	<.020	.010	.580	--

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	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)
DEC												
14...	5060	13	49	<4	<4	<2.0	29	<4	336	<4.0	<2.0	<4
JAN												
05...	5180	K5	89	12	<4	<2.0	25	<4	335	<4.0	2.2	<4
MAY												
23...	1140	180	380	<15	<1	E1.4	28	<1	76	<1.0	<.8	<1
AUG												
22...	979	520	970	1	<1	E1.0	42	<1	89	<1.0	<.8	<1

08396500 PECOS RIVER NEAR ARTESIA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)
DEC												
14...	7	<10	<4	11	<.3	<4	15	<2.4	4	<4	7	<1
JAN												
05...	7	30	<4	18	<.3	<4	7	<2.4	5	<4	10	--
MAY												
23...	3	<10	<1	1	<.3	3	3	<2.4	<3	<1	<4	--
AUG												
22...	4	<10	<1	<1	<.3	2	<1	<2.4	<3	<1	4	--

DATE	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)
DEC												
14...	<.1	2.1	2.1	3	2800	2.2	140	<.01	10	--	--	--
JAN												
05...	--	--	--	--	--	--	--	--	--	<.003	<.002	<.002
MAY												
23...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
22...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)
DEC												
14...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
05...	<.002	.010	<.002	<.002	<.003	<.003	<.004	<.004	<.002	E.006	.006	<.001
MAY												
23...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
22...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
DEC												
14...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
05...	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004
MAY												
23...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
22...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
DEC												
14...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
05...	<.004	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.011	<.003	<.007	<.004
MAY												
23...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
22...	--	--	--	--	--	--	--	--	--	--	--	--

08396500 PECOS RIVER NEAR ARTESIA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC											
14...	--	--	--	--	--	--	--	--	8	181	90
JAN											
05...	<.013	E.005	<.010	<.007	<.013	<.002	<.001	<.002	7	172	88
MAY											
23...	--	--	--	--	--	--	--	--	3	1530	69
AUG											
22...	--	--	--	--	--	--	--	--	3	1690	66

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 September 2000.

GAGE.--Water-stage recorder. Elevation of gage is 5,290 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 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 4,900 ft^3/s, June 30, gage height, 13.50 ft, minimum 1.0 ft^3/s, July 24.

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	---	---	---	---	---	29	29	18	11	92	23	16
2	---	---	---	---	---	29	29	6.2	14	40	19	21
3	---	---	---	---	---	31	29	13	14	50	15	18
4	---	---	---	---	---	31	20	11	13	59	18	20
5	---	---	---	---	---	32	22	3.6	15	42	15	24
6	---	---	---	---	---	31	18	3.1	13	54	16	17
7	---	---	---	---	---	9.8	22	4.4	6.4	45	18	22
8	---	---	---	---	---	21	20	11	9.1	39	31	21
9	---	---	---	---	---	23	22	13	12	37	34	26
10	---	---	---	---	---	23	26	11	6.4	37	79	24
11	---	---	---	---	---	25	31	10	15	34	62	22
12	---	---	---	---	---	25	31	11	15	34	45	5.9
13	---	---	---	---	---	25	29	12	13	56	34	11
14	---	---	---	---	---	25	22	12	15	40	20	16
15	---	---	---	---	---	25	19	10	15	42	19	15
16	---	---	---	---	---	25	10	3.6	13	41	18	19
17	---	---	---	---	---	25	12	5.7	11	39	21	24
18	---	---	---	---	---	25	11	12	34	38	22	21
19	---	---	---	---	e27	23	10	11	24	37	24	15
20	---	---	---	---	31	18	9.2	11	22	34	26	12
21	---	---	---	---	32	17	15	6.0	19	31	23	20
22	---	---	---	---	27	16	19	11	31	29	23	21
23	---	---	---	---	23	16	18	6.2	28	29	22	16
24	---	---	---	---	23	20	16	9.5	24	12	21	19
25	---	---	---	---	23	17	10	3.8	22	5.0	16	23
26	---	---	---	---	24	18	11	5.0	22	3.5	9.4	17
27	---	---	---	---	28	21	9.7	3.2	53	13	5.7	19
28	---	---	---	---	28	23	17	3.8	17	20	12	20
29	---	---	---	---	28	31	14	3.8	44	15	11	17
30	---	---	---	---	---	21	22	5.4	243	24	12	16
31	---	---	---	---	---	24	---	5.5	---	24	13	---
TOTAL	---	---	---	---	---	724.8	572.9	255.8	793.9	1095.5	727.1	557.9
MEAN	---	---	---	---	---	23.4	19.1	8.25	26.5	35.3	23.5	18.6
MAX	---	---	---	---	---	32	31	18	243	92	79	26
MIN	---	---	---	---	---	9.8	9.2	3.1	6.4	3.5	5.7	5.9
AC-FT	---	---	---	---	---	1440	1140	507	1570	2170	1440	1110

e Estimated

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 September 2000.

GAGE.--Water-stage recorder. Elevation of gage is 4,931 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records 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), May 4, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 6,730 ft^3/s, June 30, gage height, 12.86 ft, minimum 0.0 ft^3/s, (no flow), May 4.

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	---	---	---	---	---	17	12	12	18	103	6.4	3.4
2	---	---	---	---	---	18	13	5.1	1.5	22	4.5	6.8
3	---	---	---	---	---	19	14	.84	.00	21	2.3	5.7
4	---	---	---	---	---	19	8.0	.00	.00	60	3.4	6.2
5	---	---	---	---	---	19	8.5	.00	.00	25	2.4	6.7
6	---	---	---	---	---	20	e8.0	.00	.00	40	1.7	6.8
7	---	---	---	---	---	6.9	e8.2	.00	.00	26	1.2	6.2
8	---	---	---	---	---	9.8	e8.5	.00	.00	21	7.1	6.3
9	---	---	---	---	---	12	e8.5	.00	.00	18	7.6	8.9
10	---	---	---	---	---	11	e9.0	.00	.00	18	48	8.9
11	---	---	---	---	---	14	e8.5	.00	.00	17	88	8.4
12	---	---	---	---	---	13	e8.3	.00	.00	15	25	2.3
13	---	---	---	---	---	13	e8.2	.00	.00	31	19	.00
14	---	---	---	---	---	13	e8.0	.00	.00	27	7.6	3.0
15	---	---	---	---	---	13	e7.0	.00	.00	26	6.6	3.2
16	---	---	---	---	---	13	e5.0	.00	.00	27	6.1	4.7
17	---	---	---	---	---	13	e5.0	.00	.00	23	7.4	7.5
18	---	---	---	---	---	12	e4.5	.00	23	21	7.8	7.5
19	---	---	---	---	e17	12	e3.5	.00	4.2	20	8.8	3.8
20	---	---	---	---	e18	8.2	e3.3	.00	4.1	16	9.6	3.1
21	---	---	---	---	19	7.6	e3.0	.00	.41	13	9.3	4.5
22	---	---	---	---	17	6.9	e2.5	.00	.11	12	8.8	7.3
23	---	---	---	---	13	7.0	e2.0	.00	7.9	10	8.5	4.1
24	---	---	---	---	13	7.9	e1.8	.00	3.1	6.3	8.7	3.6
25	---	---	---	---	13	6.5	e3.9	.00	1.7	.78	7.0	8.0
26	---	---	---	---	14	6.6	1.6	.00	.41	.00	2.2	5.6
27	---	---	---	---	16	7.2	.40	.00	32	.00	.71	4.9
28	---	---	---	---	16	7.2	1.0	.00	8.0	3.2	.00	5.7
29	---	---	---	---	17	14	4.7	.00	21	3.4	1.8	5.5
30	---	---	---	---	---	8.2	6.4	.00	428	4.9	3.3	3.2
31	---	---	---	---	---	8.5	---	.00	---	6.8	2.1	---
TOTAL	---	---	---	---	---	363.5	186.30	17.94	553.43	637.38	322.91	161.80
MEAN	---	---	---	---	---	11.7	6.21	.58	18.4	20.6	10.4	5.39
MAX	---	---	---	---	---	20	14	12	428	103	88	8.9
MIN	---	---	---	---	---	6.5	.40	.00	.00	.00	.00	.00
AC-FT	---	---	---	---	---	721	370	36	1100	1260	640	321

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 September 2000. 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 29,800 ft^3/s, Aug. 23, 1966, gage height, 16.40 ft; minimum, no flow at times.

EXTREMES FOR CURRENT YEAR.--No flow recorded during the period Oct. to Feb. and May to Sept.

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	.00	.00	e.00	.00	.00	---	---	---	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	---	---	---	.00	.00	.00	.00
3	.00	.00	.00	.00	---	---	---	---	.00	.00	.00	.00
4	.00	.00	.00	.00	---	---	---	---	.00	.00	.00	.00
5	.00	.00	.00	.00	---	---	---	---	.00	.00	.00	.00
6	.00	.00	.00	.00	---	---	---	---	.00	.00	.00	.00
7	.00	.00	.00	.00	---	---	---	---	.00	.00	.00	.00
8	.00	.00	.00	.00	---	---	---	---	.00	.00	.00	.00
9	.00	.00	.00	.00	---	---	---	e.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	.00
16	.00	.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
31	.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
MEAN	.000	.000	.000	.000	.000	---	---	.000	.000	.000	.000	.000
MAX	.00	.00	.00	.00	.00	---	---	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	---	---	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	---	---	.00	.00	.00	.00	.00

e Estimated

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 except for estimated daily discharges, which are poor. Considerable flow regulation by Lake Sumner (station 08384000) since August 1937, and by Two Rivers Reservoir (station 08390600) since July 1963. Diversions and ground-water withdrawals for irrigation of about 170,000 acres, 1959 determination, upstream from station. Above about 1,500 ft^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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	118	79	93	95	199	92	45	129	48	896	321
2	56	112	78	91	97	184	87	44	123	137	878	272
3	55	109	77	88	98	166	85	45	97	e210	728	202
4	54	115	79	85	99	154	89	51	87	e190	400	163
5	55	118	85	87	100	146	109	48	73	112	277	137
6	52	126	89	85	101	135	126	43	69	e90	209	119
7	57	114	92	83	102	130	136	34	61	81	172	105
8	62	106	97	84	100	131	124	29	50	74	150	94
9	62	102	106	92	101	125	104	25	53	86	134	84
10	64	97	103	100	99	116	88	23	42	63	119	85
11	65	95	100	108	99	111	78	19	47	56	105	66
12	63	91	104	109	95	108	74	16	36	47	92	64
13	288	89	106	109	97	105	74	76	30	45	84	56
14	616	85	101	109	98	105	73	687	23	42	71	50
15	690	85	95	112	98	101	75	764	20	42	61	44
16	715	84	93	111	97	92	70	803	13	39	52	39
17	775	78	91	113	89	90	67	839	7.6	64	48	35
18	841	76	88	112	91	91	63	890	12	77	87	31
19	877	78	88	116	674	90	58	881	28	87	625	26
20	854	78	89	118	875	93	59	872	e68	69	742	22
21	606	74	88	120	929	91	59	869	e60	153	780	20
22	323	74	88	96	941	88	55	865	82	612	804	20
23	270	78	90	90	956	89	57	868	83	715	830	20
24	230	79	92	88	990	92	57	855	139	779	846	20
25	199	80	93	88	1000	111	56	856	110	801	850	21
26	177	82	95	86	705	121	51	857	62	797	848	21
27	163	84	92	86	320	133	49	646	36	811	852	21
28	159	84	95	85	262	140	49	285	39	831	849	21
29	146	79	92	86	227	136	48	186	26	838	749	21
30	138	79	93	90	---	114	45	151	17	848	473	20
31	129	---	93	93	---	97	---	139	---	880	396	---
TOTAL	8900	2749	2851	3013	9635	3684	2257	12811	1722.6	9724	14207	2220
MEAN	287	91.6	92.0	97.2	332	119	75.2	413	57.4	314	458	74.0
MAX	877	126	106	120	1000	199	136	890	139	880	896	321
MIN	52	74	77	83	89	88	45	16	7.6	39	48	20
AC-FT	17650	5450	5650	5980	19110	7310	4480	25410	3420	19290	28180	4400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2000, BY WATER YEAR (WY)

MEAN	140	90.8	78.8	80.4	80.3	157	150	249	251	272	254	197
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1950 - 2000	
ANNUAL TOTAL	65607		73773.6			
ANNUAL MEAN	180		202		167	
HIGHEST ANNUAL MEAN					353	1987
LOWEST ANNUAL MEAN					64.1	1964
HIGHEST DAILY MEAN	1410	May 5	1000	Feb 25	2920	Jul 12 1960
LOWEST DAILY MEAN	47	Sep 16	7.6	Jun 17	.00	Aug 21 1951
ANNUAL SEVEN-DAY MINIMUM	53	Sep 12	19	Jun 13	.00	Jun 29 1953
INSTANTANEOUS PEAK FLOW			1020	Feb 25	1460	May 5 1999
INSTANTANEOUS PEAK STAGE			8.53	Feb 25	11.08	May 5 1999
INSTANTANEOUS LOW FLOW			5.7	Jun 17	.50	Aug 14 1995
ANNUAL RUNOFF (AC-FT)	130100		146300		121000	
10 PERCENT EXCEEDS	302		785		592	
50 PERCENT EXCEEDS	104		93		62	
90 PERCENT EXCEEDS	64		42		11	

e Estimated

08400000 FOURMILE DRAW NEAR LAKEWOOD, NM

LOCATION.--Lat 32°40'20", long 104°22'07", in SW$^1/_4$NW$^1/_4$SE$^1/_4$ 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 September 2000.

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 fair except for estimated daily discharges, which are poor. No surface diversions upstream from station. No flow most of time.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 29,300 ft^3/s, Aug. 23, 1966, gage height, 19.90 ft; minimum, no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 7.0 ft^3/s, June 28; no flow many days.

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	.00	.00	.00	e.00	e.00	---	---	---	.00	.09	.00	.00
2	.00	.00	.00	e.00	e.00	---	---	---	.00	.09	.00	.00
3	.00	.00	.00	e.00	---	---	---	---	.00	.05	.00	.00
4	.00	.00	.00	e.00	---	---	---	---	.00	.04	.00	.00
5	.00	.00	.00	e.00	---	---	---	---	.00	.03	.00	.00
6	.00	.00	.00	e.00	---	---	---	---	.00	.00	.00	.00
7	.00	.00	.00	e.00	---	---	---	---	.00	.00	.00	.00
8	.00	.00	.00	e.00	---	---	---	---	.00	.00	.00	.00
9	.00	.00	.00	e.00	---	---	---	---	.00	.00	.00	.00
10	.00	.00	.00	e.00	---	---	---	---	.00	.00	.00	.00
11	.00	.00	.00	.00	---	---	---	---	.00	.00	.00	.00
12	.00	.00	.00	.00	---	---	---	---	.00	.00	.00	.00
13	.00	.00	.00	.00	---	---	---	---	.00	.00	.00	.00
14	.00	.00	.00	.00	---	---	---	---	.00	.00	.00	.00
15	.00	.00	.00	.00	---	---	---	---	.00	.00	.00	.00
16	.00	.00	.00	.00	---	---	---	---	.00	.00	.00	.00
17	.00	.00	.00	.00	---	---	---	---	.00	.00	.00	.00
18	.00	.00	.00	.00	---	---	---	---	2.2	.00	.00	.00
19	.00	.00	.00	.00	---	---	---	---	1.9	.00	.00	.00
20	.00	.00	.00	.00	---	---	---	---	3.3	.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	---	---	---	e.00	.00	.00	.00	.00
24	.00	.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
25	.00	e.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
26	.00	e.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
27	.00	e.00	.00	.00	---	---	---	.00	.00	.00	.00	.00
28	.00	e.00	.00	.00	---	---	---	.00	7.0	.00	.00	.00
29	.00	e.00	.00	e.00	---	---	---	.00	1.3	.00	.00	.00
30	.00	.00	.00	e.00	---	---	---	.00	.10	.00	.00	.00
31	.00	---	e.00	e.00	---	---	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	---	---	0.00	15.80	0.30	0.00	0.00
MEAN	.000	.000	.000	.000	.000	---	---	.000	.53	.010	.000	.000
MAX	.00	.00	.00	.00	.00	---	---	.00	7.0	.09	.00	.00
MIN	.00	.00	.00	.00	.00	---	---	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	---	---	.00	31	.6	.00	.00

e Estimated

08401200 SOUTH SEVEN RIVERS NEAR LAKEWOOD, NM

LOCATION.--Lat 32o35'19", long 104o25'17", in SE$^1/_4$SE$^1/_4$NW$^1/_4$ 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.

REMARKS.--Records fair. 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 1999 TO SEPTEMBER 2000
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	4.9	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	1.4	.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	2.2	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	5.4	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	4.2	.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	13.20	4.90	0.00	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.44	.16	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	5.4	4.9	.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	26	9.7	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

MEAN	.87	.058	.000	.000	.000	.000	.005	2.81	9.52	1.73	18.6	11.3
MAX	15.9	2.05	.000	.000	.000	.000	.17	83.9	275	28.3	369	237
(WY)	1984	1984	1964	1964	1964	1964	1966	1965	1986	1968	1966	1974
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1964	1964	1964	1964	1964	1964	1964	1966	1964	1965	1964	1965

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL			18.10			
ANNUAL MEAN			.049		3.86	
HIGHEST ANNUAL MEAN					31.5	1966
LOWEST ANNUAL MEAN					.000	1989
HIGHEST DAILY MEAN			5.4	Jun 29	9300	Aug 23 1966
LOWEST DAILY MEAN	.00	May 20	.00	Oct 1	.00	Oct 1 1963
ANNUAL SEVEN-DAY MINIMUM	.00	May 20	.00	Oct 1	.00	Oct 1 1963
INSTANTANEOUS PEAK FLOW			64	Jun 30	[a]25500	May 30 1965
INSTANTANEOUS PEAK STAGE			6.46	Jun 30	[b]20.00	May 30 1965
INSTANTANEOUS LOW FLOW			.00	Oct 1	.00	Oct 1 1963
ANNUAL RUNOFF (AC-FT)			36		2790	
10 PERCENT EXCEEDS	.00		.00		.00	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

a From rating curve extended above 5,000 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 of 1929 (levels by Bureau of Reclamation).

REMARKS.--Lake is formed by a concrete and earthfill dam on Pecos River. Storage began August 31, 1988. Capacity, 1,008,000 acre-ft, from capacity table dated June 1992, between elevations 3,202.5 ft and 3,303.5 ft. Dead storage 2,010 acre-ft. Lake was created primarily for irrigation storage and flood control.

COOPERATION.--Records provided by 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, 32,810 acre-ft, Mar. 20, 22, elevation, 3,254.65 ft; minimum, 3,810 acre-ft, July 22, elevation, 3,249.22 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 0700 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11550	8000	11900	16230	20020	31520	27480	16450	22680	16160	12450	23990
2	11190	8160	12040	16390	19930	31730	27230	16490	22320	16200	13400	24200
3	10850	8280	12120	16540	20000	31820	27040	16490	21740	16360	14240	24120
4	10640	8450	12350	16520	20120	31970	26710	16160	21620	16620	14730	24100
5	10400	8630	12330	16650	20160	32090	26650	15800	21470	16810	14860	23970
6	9940	8750	12490	16830	20280	32180	26540	15230	21340	16870	14860	23600
7	9350	8960	12590	16980	20350	32240	26490	14650	21240	16580	14710	23190
8	8770	9100	12730	17110	20450	32180	26350	14130	21050	15840	14500	22860
9	8360	9260	12890	17340	20500	32300	26210	13670	20880	15150	14240	22550
10	8120	9430	13010	17450	20610	32390	26000	13290	20480	14430	13860	22240
11	7970	9610	13210	17520	20690	32390	25720	12980	20100	14070	13440	22070
12	7630	9770	13390	17630	20710	32390	25020	12490	19810	13520	13290	21890
13	7290	9920	13480	17760	20730	32510	24550	11840	19210	12860	13100	21720
14	7510	10040	13680	17880	20850	32540	24050	11360	18740	12350	12920	21390
15	7610	10160	13740	18060	20900	32630	23460	12410	18040	11210	12550	21000
16	7530	10290	13930	18170	21020	32790	22780	13150	17670	10080	12120	20680
17	7710	10430	14010	18310	21020	32690	22120	13840	17080	9090	11760	20360
18	7950	10560	14170	18400	21090	32750	21540	14920	16600	8050	11400	20120
19	8470	10640	14360	18500	20100	32660	20900	15430	16450	6890	11360	19640
20	8940	10750	14480	18600	21340	32810	20220	16220	16380	5660	12450	19240
21	9230	10890	14570	18690	23060	32780	19590	16990	16240	4600	13670	18670
22	8870	10980	14700	18760	24840	32810	19020	18020	16310	3810	14690	18300
23	8100	11020	14840	18950	26130	32180	18600	19000	16400	4080	15670	17900
24	7900	11090	14970	19060	27570	31430	18300	20020	16470	4460	16560	17580
25	8170	11210	15160	19130	28840	30930	18040	20920	16650	4910	17580	17350
26	8400	11380	15330	19250	30190	30340	17690	21740	16810	5930	18620	17140
27	8310	11480	15500	19480	30900	30020	17510	22860	16890	6850	19860	16780
28	7900	11590	15590	19550	31100	29380	17140	23420	16560	7790	21070	16360
29	7490	11710	15740	19620	31280	28700	16850	23580	16360	8740	22240	15890
30	7580	11800	15930	19690	---	28160	16600	23470	16020	9930	22890	15470
31	7760	---	16060	19790	---	27920	---	23120	---	11360	23570	---
MAX	11550	11800	16060	19790	31280	32810	27480	23580	22680	16870	23570	24200
MIN	7290	8000	11900	16230	19930	27920	16600	11360	16020	3810	11360	15470
(+)	3243.46	3245.67	3247.75	3249.40	3254.14	3252.95	3248.48	3251.18	3248.22	3246.00	3251.37	3247.97
(++)	-15110	+4040	+4260	+3730	+11490	-3360	-11320	+6520	-7100	-4660	+12210	-8100

CAL YR 1999 MAX 41300 MIN 7290 (++) -18,710
WTR YR 2000 MAX 32810 MIN 3810 (++) -7,400

(+) 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	313	30	1.2	.36	37	30	236	53	340	20	300	94
2	256	30	.71	.33	37	30	200	19	362	20	363	153
3	190	30	.60	12	38	30	199	138	224	20	328	147
4	164	30	.60	17	37	31	149	215	108	20	227	119
5	254	30	.65	.75	36	31	119	260	87	20	189	198
6	358	30	13	.44	36	31	118	295	86	108	189	245
7	384	31	18	.40	36	29	119	299	86	284	213	235
8	343	31	1.2	.36	36	30	152	269	86	402	227	205
9	253	23	.67	.32	36	31	172	207	175	430	271	215
10	183	1.7	.56	11	34	31	205	180	198	310	296	155
11	220	6.9	.51	16	34	31	355	227	182	289	192	112
12	265	1.7	.46	.77	34	31	390	302	276	323	134	112
13	314	.76	11	.40	34	31	366	328	327	327	134	140
14	492	.65	18	.34	35	32	390	251	297	539	201	201
15	783	12	1.1	.31	36	31	402	304	280	648	237	200
16	733	17	.59	.30	36	32	400	383	280	627	239	177
17	704	1.1	.50	11	35	32	397	420	280	629	207	172
18	668	.73	.44	29	36	32	394	437	174	712	189	172
19	650	.65	.44	29	36	32	412	440	109	775	165	231
20	710	.61	12	29	37	31	399	443	108	743	133	267
21	739	.63	17	29	37	32	382	346	55	715	188	230
22	737	13	1.0	17	126	278	290	293	20	669	267	207
23	597	20	.54	.83	188	459	202	294	20	626	320	171
24	160	1.3	.44	.41	211	425	182	330	20	619	312	126
25	98	.71	.43	.36	147	379	203	351	20	410	261	112
26	171	.63	.41	.33	84	369	215	271	21	295	188	155
27	344	.62	12	.31	73	440	180	185	121	299	158	215
28	386	.61	17	8.7	73	478	159	132	184	260	198	234
29	264	12	.89	35	50	462	158	152	170	223	223	234
30	33	19	.47	36	---	355	120	227	76	136	143	234
31	30	---	.41	37	---	302	---	287	---	183	94	---
TOTAL	11796	377.30	132.82	324.02	1705	4598	7665	8338	4772	11681	6786	5468
MEAN	381	12.6	4.28	10.5	58.8	148	256	269	159	377	219	182
MAX	783	31	18	37	211	478	412	443	362	775	363	267
MIN	30	.61	.41	.30	34	29	118	19	20	20	94	94
AC-FT	23400	748	263	643	3380	9120	15200	16540	9470	23170	13460	10850

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2000, BY WATER YEAR (WY)

MEAN	175	67.0	48.8	42.3	54.1	76.8	236	218	221	247	206	174
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1972 - 2000	
ANNUAL TOTAL	66196.12		63643.14			
ANNUAL MEAN	181		174		155	
HIGHEST ANNUAL MEAN					282	1992
LOWEST ANNUAL MEAN					69.5	1977
HIGHEST DAILY MEAN	783	Oct 15	783	Oct 15	2050	Sep 3 1972
LOWEST DAILY MEAN	.41	Dec 26	.30	Jan 16	.30	Nov 20 1994
ANNUAL SEVEN-DAY MINIMUM	4.5	Dec 25	4.0	Jan 22	.33	Nov 22 1988
ANNUAL RUNOFF (AC-FT)	131300		126200		112300	
10 PERCENT EXCEEDS	398		399		341	
50 PERCENT EXCEEDS	121		142		86	
90 PERCENT EXCEEDS	1.7		.65		21	

08401900 ROCKY ARROYO AT HIGHWAY BRIDGE, NEAR CARLSBAD, NM

LOCATION.--Lat 32°30'23", long 104°22'28", in SE$^1/_4$SE$^1/_4$ 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, except for estimated daily discharges, which are poor. Diversions for irrigation of 220 acres, upstream from station. No flow during water year.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	e.00	.00	.00	e.00	.00	.00	.00
8	.00	.00	.00	.00	.00	e.00	.00	.00	e.00	.00	.00	.00
9	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	e.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	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	e.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	e.00	.00	.00	.00	.53	.00	.00	.00
19	.00	.00	.00	.00	e.00	.00	.00	.00	.01	.00	.00	.00
20	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	e.00	.00	.00	.00	.21	.00	.00	.00
27	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	e.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	0.75	0.00	0.00	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.025	.000	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.53	.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	1.5	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)

MEAN	8.32	.23	.015	.000	.000	.000	.056	2.12	16.0	2.43	22.9	18.4
MAX	185	7.67	.56	.002	.000	.000	1.50	37.6	468	19.3	616	335
(WY)	1975	1975	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000	
ANNUAL TOTAL	21.20		0.75			
ANNUAL MEAN	.058		.002		5.89	
HIGHEST ANNUAL MEAN					53.9	1966
LOWEST ANNUAL MEAN					.000	1973
HIGHEST DAILY MEAN	17	May 23	.53	Jun 18	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
INSTANTANEOUS PEAK FLOW			9.0	Jun 18	[a]31600	Aug 23 1966
INSTANTANEOUS PEAK STAGE			4.73	Jun 18	15.35	Aug 23 1966
INSTANTANEOUS LOW FLOW			.00	Oct 1	.00	Oct 1 1997
ANNUAL RUNOFF (AC-FT)	42		1.5		4260	
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 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 estimated daily discharges, which are poor. Flow regulated by Brantley Lake (station 08401450) 4.8 mi upstream and other reservoirs and diversion dams. Diversions and ground-water withdrawals for irrigation of about 17,300 acres, 1959 determination, upstream from station. Discharge represents inflow to Lake Avalon. Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Peaks that probably exceeded 40,000 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e310	26	7.7	1.1	36	28	e230	74	357	31	287	94
2	e280	26	3.0	1.0	37	27	182	28	392	31	352	139
3	e220	25	1.5	.86	38	28	179	115	270	33	332	155
4	e165	25	1.2	19	38	28	142	227	131	34	239	123
5	e250	25	1.0	6.2	38	28	107	266	102	35	185	185
6	e350	25	.97	2.0	38	28	106	311	103	101	187	247
7	e360	26	21	1.3	38	26	106	317	104	294	208	238
8	e300	26	8.0	1.2	38	27	129	291	105	427	227	213
9	e220	25	2.9	1.1	38	28	154	231	177	461	261	214
10	e180	8.4	1.4	.97	36	28	176	190	222	362	290	174
11	e225	2.8	1.1	19	35	28	301	227	199	316	211	117
12	e270	5.5	1.0	6.2	35	28	364	309	278	365	134	117
13	e320	2.6	.96	2.2	35	28	339	346	349	374	134	139
14	e400	1.4	19	1.3	36	28	357	272	322	e523	185	195
15	e640	1.2	6.9	1.1	36	28	372	300	297	e660	237	208
16	e660	17	2.7	.99	35	28	372	393	295	e640	238	182
17	e630	6.0	1.5	.89	34	28	368	425	294	e680	213	175
18	e610	2.4	1.2	25	35	28	368	447	220	e760	187	175
19	e600	1.4	1.1	31	35	27	384	451	118	e780	167	e230
20	e620	1.1	.96	31	36	27	383	452	118	e750	137	e275
21	e640	1.0	20	31	36	28	364	377	79	e720	172	e230
22	e660	.91	7.4	27	95	e300	296	309	29	e680	254	e210
23	e580	19	2.5	7.4	171	e400	207	310	28	e620	307	e170
24	161	6.9	1.4	2.5	188	444	181	342	28	e620	308	e130
25	91	2.8	1.2	1.4	144	353	199	371	28	e450	262	e120
26	140	1.5	1.1	1.1	82	339	216	300	38	296	195	e150
27	290	1.2	1.0	1.0	67	401	189	202	103	299	156	205
28	350	1.1	21	.92	67	448	162	147	193	268	188	228
29	256	.98	7.0	26	53	432	160	153	183	221	220	227
30	44	19	2.5	36	---	339	134	229	109	155	160	226
31	25	---	1.4	36	---	278	---	300	---	161	95	---
TOTAL	10847	333.19	151.59	323.73	1630	4316	7227	8712	5271	12147	6728	5491
MEAN	350	11.1	4.89	10.4	56.2	139	241	281	176	392	217	183
MAX	660	26	21	36	188	448	384	452	392	780	352	275
MIN	25	.91	.96	.86	34	26	106	28	28	31	95	94
AC-FT	21520	661	301	642	3230	8560	14330	17280	10460	24090	13340	10890

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

MEAN	202	82.4	70.4	60.3	66.3	86.0	252	197	226	257	264	211
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1939 - 2000	
ANNUAL TOTAL	60597.78		63177.51			
ANNUAL MEAN	166		173		165	
HIGHEST ANNUAL MEAN					395	1955
LOWEST ANNUAL MEAN					66.8	1977
HIGHEST DAILY MEAN	660	Oct 16	780	Jul 19	39000	Aug 23 1966
LOWEST DAILY MEAN	.91	Nov 22	.86	Jan 3	.00	Dec 21 1988
ANNUAL SEVEN-DAY MINIMUM	4.3	Nov 16	4.3	Nov 16	.46	Dec 15 1988
INSTANTANEOUS PEAK FLOW					[a]69000	Aug 23 1966
INSTANTANEOUS PEAK STAGE					[b]21.32	Aug 23 1966
INSTANTANEOUS LOW FLOW					.00	Dec 21 1988
ANNUAL RUNOFF (AC-FT)	120200		125300		119500	
10 PERCENT EXCEEDS	370		383		347	
50 PERCENT EXCEEDS	110		140		94	
90 PERCENT EXCEEDS	4.5		1.4		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 NW$^1/_4$SW$^1/_4$SW$^1/_4$ 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. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	260	.03	.00	.00	.00	.00	199	95	340	41	298	137
2	195	.00	.00	.00	.00	.00	183	133	271	.00	347	134
3	184	.00	.00	.00	.00	.00	147	184	180	.00	254	107
4	230	.00	.00	.00	.00	.00	133	191	111	.00	208	112
5	247	.00	.00	.00	.00	.00	135	238	118	.00	200	190
6	313	.00	.00	.00	.00	.00	143	279	110	91	173	179
7	251	.00	.00	.00	.00	.00	143	263	94	307	201	179
8	213	.00	.00	.00	.00	.00	170	237	120	406	236	181
9	149	.00	.00	.00	.00	.00	173	195	193	278	256	188
10	139	.00	.00	.00	.00	.00	214	213	162	255	245	102
11	189	.00	.00	.00	.00	.00	329	288	178	311	138	110
12	216	.00	.00	.00	.00	.00	352	324	312	318	148	126
13	267	.00	.00	.00	.00	.00	370	325	307	304	158	152
14	267	.00	.00	.00	.00	.00	369	247	285	288	190	188
15	211	.00	.00	.00	.00	.00	338	351	302	266	201	182
16	183	.00	.00	.00	.00	.00	344	407	268	237	192	164
17	138	.00	.00	.00	.00	.00	357	400	259	259	154	153
18	162	.00	.00	.00	.00	.00	374	419	166	360	163	188
19	227	.00	.00	.00	.00	.00	420	423	139	388	160	231
20	239	.00	.00	.00	.00	5.6	363	393	115	308	117	227
21	242	.00	.00	.00	.00	63	302	303	.40	298	209	206
22	268	.00	.00	.00	92	135	204	307	.00	262	244	174
23	235	.00	.00	.00	152	151	156	308	.00	214	276	153
24	206	.00	.00	.00	177	166	190	341	.00	250	248	115
25	223	.00	.00	.00	152	174	216	313	.00	295	204	172
26	276	.00	.00	.00	118	214	213	237	85	323	157	160
27	305	.00	.00	.00	98	260	186	194	186	274	143	206
28	275	.00	.00	.00	85	282	148	166	154	247	188	193
29	236	.00	.00	.00	.00	389	129	186	133	192	160	188
30	136	.00	.00	.00	---	336	101	237	79	187	103	148
31	65	---	.00	.00	---	288	---	298	---	256	145	---
TOTAL	6747	0.03	0.00	0.00	874.00	2463.60	7101	8495	4667.40	7215.00	6116	4945
MEAN	218	.001	.000	.000	30.1	79.5	237	274	156	233	197	165
MAX	313	.03	.00	.00	177	389	420	423	340	406	347	231
MIN	65	.00	.00	.00	.00	.00	101	95	.00	.00	103	102
AC-FT	13380	.06	.00	.00	1730	4890	14080	16850	9260	14310	12130	9810

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

MEAN	85.6	4.13	7.33	11.0	22.2	74.8	246	136	163	203	205	143
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1939 - 2000	
ANNUAL TOTAL	49288.12		48624.03			
ANNUAL MEAN	135		133		108	
HIGHEST ANNUAL MEAN					174	1940
LOWEST ANNUAL MEAN					51.8	1964
HIGHEST DAILY MEAN	422	Jul 9	423	May 19	[a]526	Sep 15 1946
LOWEST DAILY MEAN	.00	Jan 1	.00	Nov 2	.00	Jul 1 1939
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Nov 2	.00	Oct 16 1939
INSTANTANEOUS PEAK FLOW					462	Apr 19 2000
INSTANTANEOUS PEAK STAGE					3.69	Apr 19 2000
INSTANTANEOUS LOW FLOW					.00	Oct 13 1997
ANNUAL RUNOFF (AC-FT)	97760		96450		77920	
10 PERCENT EXCEEDS	320		307		296	
50 PERCENT EXCEEDS	134		143		70	
90 PERCENT EXCEEDS	.00		.00		.00	

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., R26 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 (Alavon) 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, 2,060 acre-ft, Oct. 18, gage height, 17.42 ft; minimum, 18 acre-ft, Nov. 15, gage height, 12.86 ft.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1150	675	21	21	324	1210	1090	1300	1030	1270	1150	1210
2	1210	675	21	19	324	1270	1090	1210	1090	1270	1090	1150
3	1270	732	19	19	366	1270	1150	966	1330	1270	1150	1150
4	1210	509	21	21	388	1270	1210	907	1400	1270	1270	1210
5	1030	324	21	19	410	1330	1210	907	1400	1270	1270	1090
6	966	120	19	19	458	1330	1150	966	1330	1270	1210	1090
7	1030	29	19	19	509	1360	1090	1030	1270	1210	1210	1210
8	1210	29	19	19	563	1400	1030	1150	1270	1030	1210	1270
9	1400	29	21	19	619	1400	1030	1210	1150	1090	1150	1270
10	1520	29	19	19	675	1460	966	1210	1090	1330	1150	1330
11	1520	25	19	19	675	1460	848	1150	1150	1330	1270	1330
12	1520	21	21	21	732	1520	907	1030	1090	1330	1330	1330
13	1560	21	19	21	761	1520	907	1030	1030	1330	1270	1270
14	1520	21	19	21	790	1520	790	1090	1150	1400	1150	1210
15	1990	18	21	19	848	1560	848	1030	1090	1400	1150	1210
16	2030	21	19	19	907	1590	848	907	1090	1400	1150	1210
17	1990	21	19	19	966	1590	848	848	1090	1330	1270	1210
18	2060	21	19	19	966	1660	848	848	1210	1210	1330	1210
19	1990	21	19	84	1030	1660	790	907	1210	1030	1330	1150
20	1860	19	19	164	1060	1660	790	907	1150	1090	1270	1150
21	1790	19	19	219	1090	1460	848	1030	1210	1150	1270	1210
22	1790	19	21	286	1140	966	966	1150	1330	1150	1210	1210
23	1720	19	21	219	1140	848	1150	1090	1330	1210	1150	1270
24	1400	21	21	219	1140	1030	1210	1090	1330	1150	1150	1270
25	1270	21	21	190	1210	1150	1150	1030	1400	1270	1210	1270
26	1060	19	21	164	1210	1150	1150	1210	1400	1330	1270	1150
27	732	19	21	141	1140	1030	1150	1270	1210	1270	1270	1090
28	790	19	21	120	1140	966	1150	1270	1090	1330	1270	1150
29	907	19	21	141	1140	1030	1210	1150	1150	1400	1270	1150
30	907	19	21	164	---	1090	1270	1150	1210	1460	1330	1210
31	704	---	21	219	---	1030	---	1090	---	1270	1400	---
MAX	2060	732	21	286	1210	1660	1270	1300	1400	1460	1400	1330
MIN	704	18	19	19	324	848	790	848	1030	1030	1090	1090
(+)	15.25	12.85	17.90	14.31	16.00	15.80	16.20	15.90	16.10	16.20	16.40	16.10
(++)	-446	-685	+2	+198	+921	-110	+240	-180	+120	+60	+130	-190

CAL YR 1999 MAX 4200 MIN 18 (++) -2399
WTR YR 2000 MAX 2060 MIN 18 (++) +60

(+) Gage height, 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$^1/_4$SW$^1/_4$NE$^1/_4$ 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 determinate on. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	59	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	61	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	89	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	105	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	98	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	55	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	32	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	9.4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	7.1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	6.8	.00	.00	.00	.00	.00	.00	.00	89	.00	.00
15	311	5.0	.00	.00	.00	.00	.00	.00	.00	332	.00	.00
16	471	1.4	.00	.00	.00	.00	.00	.00	.00	359	.00	.00
17	471	.15	.00	.00	.00	.00	.00	.00	.00	357	.00	.00
18	451	.49	.00	.00	.00	.00	.00	.00	.00	348	.00	.00
19	442	.19	.00	.00	.00	.00	.00	.00	.00	341	.00	.00
20	462	.00	.00	.00	.00	.00	.00	.00	.00	352	.00	.00
21	477	.00	.00	1.3	.00	.00	.00	.00	.00	359	.00	.00
22	500	.00	.00	13	.00	.00	.00	.00	.00	363	.00	.00
23	522	.00	.00	15	.00	.00	.00	.00	.00	369	.00	.00
24	191	.00	.00	16	.00	.00	.00	.00	.00	366	.00	.00
25	42	.00	.00	15	.00	.00	.00	.00	.00	48	.00	.00
26	42	.00	.00	19	.00	.00	.00	.00	.00	18	.00	.00
27	43	.00	.00	9.4	.00	.00	.00	.00	.00	15	.00	.00
28	44	.00	.00	8.2	.00	.00	.00	.00	.00	8.1	.00	.00
29	49	.00	.00	4.4	.00	.00	.00	.00	.00	4.0	.00	.00
30	53	.00	.00	1.0	---	.00	.00	.00	.00	1.3	.00	.00
31	57	---	.00	.00	---	.00	---	.00	---	.03	.00	---
TOTAL	4628.00	626.53	0.00	102.30	0.00	0.00	0.00	0.00	0.00	3729.43	0.00	0.00
MEAN	149	20.9	.000	3.30	.000	.000	.000	.000	.000	120	.000	.000
MAX	522	105	.00	19	.00	.00	.00	.00	.00	369	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	9180	1240	.00	203	.00	.00	.00	.00	.00	7400	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)

MEAN	104	35.6	22.4	9.52	10.7	4.38	1.22	38.7	53.9	38.5	55.5	49.8
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1951 - 2000	
ANNUAL TOTAL	9256.66		9086.26			
ANNUAL MEAN	25.4		24.8		35.9	
HIGHEST ANNUAL MEAN					206	1955
LOWEST ANNUAL MEAN					.000	1953
HIGHEST DAILY MEAN	522	Oct 23	522	Oct 23	33600	Aug 23 1966
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Jun 1 1951
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Jun 1 1951
INSTANTANEOUS PEAK FLOW					[a]55500	Aug 23 1966
INSTANTANEOUS PEAK STAGE					[b]26.40	Aug 23 1966
INSTANTANEOUS LOW FLOW					.00	Oct 1 1999
ANNUAL RUNOFF (AC-FT)	18360		18020		25970	
10 PERCENT EXCEEDS	31		31		.05	
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 Soil Conservation Service flood-control project on Hackberry Draw, an upstream tributary, has some effect on flood peaks and flow duration. Ground-water withdrawals upstream from station for irrigation of approximately 2,100 acres, 1973 determination, and for municipal supply for Carlsbad. Several observations of water temperature were made during the year. No flow 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 1999 TO SEPTEMBER 2000
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	.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 - 2000, BY WATER YEAR (WY)

MEAN	7.31	.73	.000	.000	.000	.000	.000	.40	14.1	.44	6.02	24.0
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1973 - 2000	
ANNUAL MEAN					4.52	
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
INSTANTANEOUS PEAK FLOW			.00	Oct 1	27000	Sep 26 1980
INSTANTANEOUS PEAK STAGE			.00	Oct 1	12.53	Jun 24 1986
INSTANTANEOUS LOW FLOW			.00	Oct 1	.00	Oct 1 1993
ANNUAL RUNOFF (AC-FT)					3280	
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 fair except for estimated daily discharges, which are poor. Flow regulated by Lake Avalon (station 08403800) 8.1 mi upstream and by several other reservoirs and up to Nov. 1982 at low stages by power plant. Power plant discontinued operation Nov. 1982. Gage is bypassed on left bank by Carlsbad Main Canal East, which irrigates several hundred acres adjacent to and downstream from gage and on right bank by Carlsbad Main Canal South, which with supplemental ground-water withdrawals irrigates about 23,000 acres downstream. Diversions and ground-water withdrawals upstream from station for irrigation of about 198,000 acres, 1959 determination. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 23, 1966, reached a stage of about 22 ft, discharge not determined. (For dates of other historical floods see station 08404000.)

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	18	17	15	14	9.5	24	e5.3	8.7	25	11	e13
2	17	18	18	15	13	10	26	e9.0	14	24	10	e12
3	12	42	19	14	15	8.8	20	14	10	22	11	e13
4	10	122	21	11	14	10	17	17	11	24	15	e13
5	11	109	19	13	15	11	17	15	15	25	11	e12
6	11	82	20	13	15	10	20	8.3	14	24	10	e12
7	11	40	20	12	14	14	24	8.4	e12	23	11	e11
8	10	35	21	13	15	6.9	15	5.8	e12	e23	10	e10
9	15	32	17	14	16	8.9	e14	6.1	e11	e34	13	e8.9
10	23	34	17	13	16	11	12	7.0	e10	e52	16	e9.0
11	17	25	18	13	15	11	13	8.8	e10	e71	15	e7.9
12	16	20	17	14	e13	12	9.8	6.0	e9.0	e29	11	e7.6
13	18	19	17	12	e13	12	10	3.6	e8.5	e21	9.8	e8.0
14	22	18	19	10	e13	8.5	9.9	3.6	e8.5	e22	8.9	e9.2
15	176	18	16	11	e13	9.0	10	e4.0	e8.4	288	8.4	e9.5
16	440	18	17	11	e13	9.6	9.0	e5.0	18	335	8.8	e9.6
17	445	18	18	11	e12	7.5	11	e6.0	17	337	9.9	e11
18	438	18	16	12	e12	12	7.5	e7.0	17	329	e11	e10
19	414	17	18	12	e12	6.6	7.4	e7.0	18	320	e12	e9.5
20	416	17	17	11	e12	9.1	6.5	e7.3	36	323	e10	e9.3
21	415	18	16	13	e12	12	5.5	e7.8	18	328	e11	e11
22	429	18	16	12	e11	11	8.0	e8.5	12	328	e9.7	e11
23	427	18	15	12	e10	11	3.9	e9.0	3.5	330	9.9	e10
24	237	19	15	12	e10	11	5.1	9.1	8.9	327	8.7	e9.8
25	24	20	17	12	e10	13	5.7	9.2	7.7	119	e10	e9.9
26	20	17	14	13	11	12	5.8	9.1	16	16	e10	e9.8
27	20	18	15	13	11	13	7.4	9.1	30	12	e9.6	e10
28	21	17	14	12	12	15	7.1	8.7	29	12	e9.6	e12
29	22	17	14	13	9.9	14	10	9.0	35	12	e9.4	e11
30	17	16	15	13	---	14	6.0	8.2	26	11	e9.5	e10
31	18	---	14	14	---	20	---	7.4	---	11	e10	---
TOTAL	4193	898	527	389	371.9	343.4	347.6	249.3	454.2	3857	330.2	310.0
MEAN	135	29.9	17.0	12.5	12.8	11.1	11.6	8.04	15.1	124	10.7	10.3
MAX	445	122	21	15	16	20	26	17	36	337	16	13
MIN	10	16	14	10	9.9	6.6	3.9	3.6	3.5	11	8.4	7.6
AC-FT	8320	1780	1050	772	738	681	689	494	901	7650	655	615

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2000, BY WATER YEAR (WY)

MEAN	86.7	73.7	46.4	37.2	38.5	29.7	20.5	57.1	109	58.9	36.9	109
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1970 - 2000	
ANNUAL TOTAL	14613.6		12270.6			
ANNUAL MEAN	40.0		33.5		59.3	
HIGHEST ANNUAL MEAN					242	1987
LOWEST ANNUAL MEAN					10.9	1977
HIGHEST DAILY MEAN	445	Oct 17	445	Oct 17	22800	Jun 24 1986
LOWEST DAILY MEAN	8.3	Sep 1	3.5	Jun 23	.00	Jun 16 1971
ANNUAL SEVEN-DAY MINIMUM	11	Oct 3	5.0	May 12	.00	Apr 16 1972
INSTANTANEOUS PEAK FLOW			554	Oct 22	[a]26300	Aug 10 1984
INSTANTANEOUS PEAK STAGE			3.97	Oct 22	[b]15.22	Aug 10 1984
INSTANTANEOUS LOW FLOW			1.0	Jun 23	1.0	Mar 25 1995
ANNUAL RUNOFF (AC-FT)	28990		24340		42960	
10 PERCENT EXCEEDS	34		29		49	
50 PERCENT EXCEEDS	17		13		18	
90 PERCENT EXCEEDS	13		8.3		4.8	

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, New Mexico at which sample collection was discontinued after September, 1987.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
APR												
12...	0900	11	688	88	7.7	7.8	3730	20.5	16.0	1300	319	117
MAY												
02...	1830	5.5	679	130	9.6	7.8	4210	25.0	24.0	1400	368	128
31...	1235	7.9	684	96	7.0	7.8	4830	38.5	25.0	1600	383	145
JUN												
26...	1415	6.1	633	117	7.5	8.0	4480	34.0	27.5	1400	338	129
AUG												
07...	1530	11	680	108	7.3	7.8	4490	34.0	28.5	1500	409	113
SEP												
13...	1215	12	689	107	7.6	7.7	4800	35.0	26.5	1600	414	144

DATE	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)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	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)
APR											
12...	4.7	4	336	--	600	.8	14.9	1060	--	--	--
MAY											
02...	2.2	5	411	--	710	.7	13.4	1210	--	--	--
31...	5.6	5	467	--	839	.8	18.7	1370	--	--	--
JUN											
26...	4.9	5	425	--	757	.8	19.0	1270	--	--	--
AUG											
07...	6.2	5	443	105	741	.9	18.5	1360	3160	256	<10
SEP											
13...	5.9	5	468	--	779	.9	24.7	1380	--	--	--

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 September 2000.

GAGE.--Water-stage recorder. Elevation of gage is 3,110 ft above National Geodetic Vertical Datum, fro topographic map.

REMARKS.--Records fair. Station located above all know diversions. Several observation of water temperature were make during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge 16 ft^3/s, Sept. 3, 2000, minimum daily discharge 7.8 ft^3/s, Sept. 16, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge 16 ft^3/s, Sept. 3, minimum daily discharge 7.8 ft^3/s, Sept. 16.

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	---	---	---	---	---	---	---	12	12	13	12	15
2	---	---	---	---	---	---	---	12	12	13	12	15
3	---	---	---	---	---	---	---	12	12	12	12	16
4	---	---	---	---	---	---	---	12	12	13	12	16
5	---	---	---	---	---	---	---	12	12	13	12	16
6	---	---	---	---	---	---	---	12	12	13	12	16
7	---	---	---	---	---	---	---	12	12	13	12	16
8	---	---	---	---	---	---	---	12	12	13	14	15
9	---	---	---	---	---	---	---	13	12	15	15	13
10	---	---	---	---	---	---	---	13	12	11	13	12
11	---	---	---	---	---	---	---	13	11	10	13	12
12	---	---	---	---	---	---	---	13	11	10	13	12
13	---	---	---	---	---	---	12	13	11	11	13	12
14	---	---	---	---	---	---	12	13	11	11	13	12
15	---	---	---	---	---	---	12	13	11	11	13	9.8
16	---	---	---	---	---	---	12	13	11	11	13	7.8
17	---	---	---	---	---	---	13	13	11	11	13	7.8
18	---	---	---	---	---	---	13	13	13	11	13	9.8
19	---	---	---	---	---	---	13	12	12	11	13	11
20	---	---	---	---	---	---	13	13	12	11	13	11
21	---	---	---	---	---	---	12	13	11	11	13	11
22	---	---	---	---	---	---	11	13	11	11	13	11
23	---	---	---	---	---	---	11	13	11	11	13	11
24	---	---	---	---	---	---	11	13	10	11	13	11
25	---	---	---	---	---	---	11	13	9.7	11	14	9.0
26	---	---	---	---	---	---	11	13	10	11	14	11
27	---	---	---	---	---	---	12	12	10	12	14	11
28	---	---	---	---	---	---	12	12	10	12	14	11
29	---	---	---	---	---	---	12	12	12	11	15	11
30	---	---	---	---	---	---	12	12	13	12	e15	11
31	---	---	---	---	---	---	---	12	---	12	e15	---
TOTAL	---	---	---	---	---	---	---	389	341.7	362	409	363.2
MEAN	---	---	---	---	---	---	---	12.5	11.4	11.7	13.2	12.1
MAX	---	---	---	---	---	---	---	13	13	15	15	16
MIN	---	---	---	---	---	---	---	12	9.7	10	12	7.8
AC-FT	---	---	---	---	---	---	---	772	678	718	811	720

e Estimated

08405500 BLACK RIVER ABOVE MALAGA, NM

LOCATION.--Lat 32°13'44", long 104°09'02", in SW$^1/_4$NW$^1/_4$SW$^1/_4$ sec.12, T.24 S., R.27 E., Eddy County, Hydrologic Unit 13060011, on right bank 0.6 mi upstream from Black River diversion dam, 4.8 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 and concrete control. Elevation of gage is 3,070 ft above National Geodetic Vertical Datum of 1929, from topographic map. March to December 1940, water-stage recorder and Cippoletti weir at site 0.3 mi downstream at different datum.

REMARKS.--Records good. Diversions and ground-water withdrawals for irrigation of about 1,000 acres, 1959 determination, upstream from station. Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 20 or 21, 1941, reached a stage of 19.0 ft, present site and datum, determined in 1947 from well-defined floodmarks, discharge, 33,000 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	7.9	7.1	8.5	9.1	9.9	7.8	6.0	5.5	7.8	6.2	13
2	6.2	7.9	7.1	8.4	9.6	9.9	8.0	6.2	6.6	12	6.2	11
3	6.5	7.9	7.3	8.2	9.6	9.9	8.2	6.2	6.3	9.7	6.1	8.1
4	6.7	8.7	7.2	8.1	9.4	10	8.0	6.5	6.1	8.0	6.0	7.5
5	6.8	8.3	7.1	8.4	9.4	9.9	8.0	6.2	79	7.0	6.0	7.0
6	6.8	8.3	7.4	8.5	9.4	10	7.9	6.0	65	6.4	5.9	6.6
7	6.5	8.3	7.5	8.1	9.4	10	7.6	6.0	13	6.1	6.1	6.6
8	6.2	8.3	7.6	7.5	9.6	9.7	7.5	5.7	7.9	11	6.3	6.5
9	6.3	8.3	7.8	7.2	9.7	9.6	7.6	5.7	6.7	547	14	6.6
10	6.7	8.3	7.6	7.1	9.6	9.7	7.4	5.9	6.2	34	11	6.6
11	6.8	7.5	7.2	7.0	9.4	9.6	7.8	5.9	6.1	15	7.4	6.3
12	6.8	7.9	7.2	7.0	9.5	9.7	7.8	5.6	53	10	6.2	5.9
13	6.9	7.9	7.1	7.0	9.4	9.7	7.9	5.7	20	21	6.3	5.9
14	7.0	7.9	7.3	6.9	9.5	9.7	7.9	5.9	9.6	18	6.3	6.3
15	6.8	7.9	7.1	7.0	9.7	9.9	7.7	6.0	8.5	9.9	6.3	6.2
16	6.7	7.9	7.1	7.5	9.7	9.9	7.5	5.9	6.9	8.3	6.4	6.2
17	6.9	7.9	7.4	7.5	9.7	9.2	7.6	5.6	6.2	7.3	6.5	5.7
18	7.5	7.9	7.5	7.1	9.5	8.2	7.7	5.6	11	7.0	6.6	4.7
19	7.8	7.5	7.5	7.0	9.6	7.7	7.7	5.6	9.3	6.7	6.4	4.2
20	8.1	7.5	7.9	7.0	9.7	7.4	7.4	5.9	22	6.7	6.5	4.2
21	8.2	7.2	7.9	7.0	9.9	7.3	7.6	6.0	15	6.7	6.5	4.9
22	7.9	7.2	7.9	6.8	10	7.3	7.5	6.0	9.4	6.5	6.2	5.5
23	7.9	7.2	7.9	6.7	9.9	7.3	6.8	6.0	7.6	6.5	6.4	5.5
24	7.9	7.2	7.9	7.4	9.7	7.3	6.7	5.9	6.9	6.5	6.5	5.6
25	7.9	7.2	8.1	8.1	9.8	7.3	6.8	5.9	6.6	6.4	7.5	6.1
26	7.9	7.9	8.3	8.2	9.6	7.3	6.7	5.7	18	6.2	7.5	6.5
27	7.9	7.6	8.2	8.4	9.7	7.1	6.7	5.5	21	6.1	7.4	4.7
28	8.0	7.5	7.9	8.4	9.8	7.0	6.6	5.3	15	6.2	7.5	3.4
29	7.9	7.5	7.9	8.5	9.7	6.7	6.6	5.6	10	6.2	7.5	2.7
30	7.5	7.3	8.0	8.4	---	6.7	6.3	5.6	8.4	6.2	7.6	2.3
31	7.6	---	8.4	8.7	---	6.9	---	5.4	---	6.4	9.2	---
TOTAL	221.9	233.8	235.4	237.6	278.6	267.8	223.3	181.0	472.8	828.8	218.5	182.3
MEAN	7.16	7.79	7.59	7.66	9.61	8.64	7.44	5.84	15.8	26.7	7.05	6.08
MAX	8.2	8.7	8.4	8.7	10	10	8.2	6.5	79	547	14	13
MIN	5.3	7.2	7.1	6.7	9.1	6.7	6.3	5.3	5.5	6.1	5.9	2.3
AC-FT	440	464	467	471	553	531	443	359	938	1640	433	362

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2000, BY WATER YEAR (WY)

MEAN	13.1	9.54	9.79	10.7	10.5	7.14	10.6	12.6	15.4	14.8	23.8	19.7
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1948 - 2000	
ANNUAL TOTAL	4420.0		3581.8			
ANNUAL MEAN	12.1		9.79		13.1	
HIGHEST ANNUAL MEAN					58.3	1966
LOWEST ANNUAL MEAN					6.82	1977
HIGHEST DAILY MEAN	723	Jun 21	547	Jul 9	12000	Aug 23 1966
LOWEST DAILY MEAN	3.7	Aug 1	2.3	Sep 30	.01	Sep 30 1998
ANNUAL SEVEN-DAY MINIMUM	5.3	Sep 26	4.5	Sep 24	1.0	Nov 9 1977
INSTANTANEOUS PEAK FLOW			2280	Jul 9	[a]74600	Aug 23 1966
INSTANTANEOUS PEAK STAGE			6.34	Jul 9	[b]21.70	Aug 23 1966
INSTANTANEOUS LOW FLOW			2.1	Sep 30	.00	Sep 30 1998
ANNUAL RUNOFF (AC-FT)	8770		7100		9520	
10 PERCENT EXCEEDS	11		9.9		14	
50 PERCENT EXCEEDS	7.8		7.5		8.4	
90 PERCENT EXCEEDS	6.1		5.9		4.2	

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 to September 2000.

GAGE.--Water-stage recorder. Elevation of gage is 2,910 ft above National Geodetic Vertical Datum, from topographic map.

REMARKS.--Records good. Several observation of water temperature were make 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, from rating curve extended on basis of runoff with nearby stations; minimum daily discharge 2.2 ft^3/s, May 31, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1,840 ft^3/s, July 9, gage height, 15.43 ft, from floodmarks; minimum daily discharge 2.2 ft^3/s, May 31.

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	---	---	---	---	---	14	5.0	9.2	4.3	12	12	5.3
2	---	---	---	---	---	13	5.5	6.2	22	5.7	5.9	6.2
3	---	---	---	---	---	14	e6.0	12	8.8	3.9	9.7	4.2
4	---	---	---	---	---	14	11	15	5.9	3.0	12	3.8
5	---	---	---	---	---	14	6.0	9.2	4.0	2.7	4.8	3.7
6	---	---	---	---	---	14	4.3	3.8	65	2.7	3.3	4.1
7	---	---	---	---	---	14	4.4	2.8	18	2.6	3.0	4.9
8	---	---	---	---	---	14	4.3	2.5	8.9	35	2.8	3.7
9	---	---	---	---	---	14	4.3	2.4	6.8	384	2.8	3.6
10	---	---	---	---	---	14	4.4	3.1	8.6	53	8.3	3.6
11	---	---	---	---	---	13	4.4	3.0	3.6	18	12	6.3
12	---	---	---	---	---	7.6	4.5	7.0	21	22	5.3	e5.2
13	---	---	---	---	---	7.3	4.5	2.9	31	10	12	e5.2
14	---	---	---	---	---	7.1	4.4	14	17	15	6.9	e5.2
15	---	---	---	---	---	6.0	4.4	10	6.1	7.3	5.4	e5.2
16	---	---	---	---	---	5.9	4.3	6.6	3.0	7.3	3.7	e5.3
17	---	---	---	---	---	6.0	4.3	10	3.7	5.3	3.6	e5.3
18	---	---	---	---	---	6.0	4.7	3.4	6.5	3.6	5.7	e5.3
19	---	---	---	---	---	6.0	4.8	2.4	10	12	3.3	e5.3
20	---	---	---	---	---	5.9	4.8	2.3	14	9.5	5.0	e5.4
21	---	---	---	---	---	6.0	6.9	2.4	16	7.8	4.3	e5.4
22	---	---	---	---	---	11	6.0	2.4	9.9	3.8	7.6	5.4
23	---	---	---	---	---	19	4.9	7.4	4.0	3.2	4.9	5.5
24	---	---	---	---	38	15	6.6	8.2	2.8	3.2	3.8	5.5
25	---	---	---	---	33	14	7.3	3.2	2.5	2.8	3.6	4.3
26	---	---	---	---	26	9.1	5.1	6.4	2.9	2.7	3.7	12
27	---	---	---	---	19	7.7	5.1	4.5	17	2.7	3.5	8.1
28	---	---	---	---	18	7.3	5.1	3.0	24	2.7	3.4	6.8
29	---	---	---	---	15	4.3	5.1	3.2	15	2.9	3.5	7.8
30	---	---	---	---	---	6.7	9.2	2.4	19	4.3	3.8	5.1
31	---	---	---	---	---	13	---	2.2	---	6.4	11	---
TOTAL	---	---	---	---	---	322.9	161.6	173.1	381.3	657.1	180.6	162.7
MEAN	---	---	---	---	---	10.4	5.39	5.58	12.7	21.2	5.83	5.42
MAX	---	---	---	---	---	19	11	15	65	384	12	12
MIN	---	---	---	---	---	4.3	4.3	2.2	2.5	2.6	2.8	3.6
AC-FT	---	---	---	---	---	640	321	343	756	1300	358	323

WTR YR 2000 TOTAL 2188.3 MEAN 9.95 MAX 384 MIN 2.2 AC-FT 4340

e Estimated

08406500 PECOS RIVER NEAR MALAGA, NM

LOCATION.--Lat 32°12'30", long 104°01'20", in SW$^1/_4$NW$^1/_4$NE$^1/_4$ 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. 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 estimated daily discharges, 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	61	60	59	e51	58	49	52	e37	74	59	51
2	70	71	59	59	e50	55	45	46	e54	58	50	57
3	72	69	59	58	e51	58	49	49	55	52	48	52
4	73	71	59	57	e50	57	58	55	50	49	49	48
5	70	139	59	58	e50	55	58	51	44	46	40	49
6	75	168	59	57	e48	56	50	49	92	44	40	48
7	66	154	58	57	e47	56	49	49	69	42	45	46
8	65	114	59	57	e45	57	45	45	51	55	45	44
9	75	95	59	58	e43	56	42	e44	40	461	46	40
10	78	89	59	60	43	52	47	e42	45	129	40	35
11	64	86	59	e57	52	51	47	e41	40	72	50	33
12	75	86	59	e57	49	50	48	e39	36	81	40	40
13	76	79	59	e56	51	47	48	e38	72	66	41	40
14	69	71	59	e56	53	49	48	e38	52	57	52	40
15	71	65	59	e56	52	48	46	38	43	47	40	45
16	172	63	58	e56	50	47	e44	e37	41	214	e39	48
17	460	62	58	e57	48	47	e43	e36	33	364	e38	42
18	515	62	58	e57	44	48	e41	e35	38	364	e41	37
19	480	62	59	e56	45	46	e39	e34	51	361	42	39
20	442	61	58	e55	54	45	e37	e37	114	357	39	46
21	461	60	58	e55	55	46	e36	e40	98	361	38	45
22	461	60	58	e55	56	48	e37	e40	75	362	44	41
23	484	60	58	e55	57	65	e38	e40	57	364	e43	41
24	464	60	58	e54	74	59	42	47	49	372	e42	42
25	279	59	59	e54	79	59	48	e44	40	367	e42	42
26	123	60	59	e53	72	55	45	e42	33	210	e42	45
27	91	60	59	e53	67	50	46	e42	51	89	e42	49
28	84	60	59	e52	58	50	45	e41	98	62	e42	43
29	79	60	59	e52	62	48	44	e41	89	54	e42	43
30	82	60	59	e52	---	48	43	e40	81	51	e42	37
31	69	---	59	e52	---	55	---	e38	---	51	52	---
TOTAL	5808	2327	1821	1730	1556	1621	1357	1310	1728	5336	1355	1308
MEAN	187	77.6	58.7	55.8	53.7	52.3	45.2	42.3	57.6	172	43.7	43.6
MAX	515	168	60	60	79	65	58	55	114	461	59	57
MIN	63	59	58	52	43	45	36	34	33	42	38	33
AC-FT	11520	4620	3610	3430	3090	3220	2690	2600	3430	10580	2690	2590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

MEAN	265	152	119	108	92.7	65.0	56.2	209	167	109	146	266
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1938 - 2000	
ANNUAL TOTAL	31700		27257			
ANNUAL MEAN	86.8		74.5		[a]147	
HIGHEST ANNUAL MEAN					1652	1941
LOWEST ANNUAL MEAN					16.8	1977
HIGHEST DAILY MEAN	1310	Jun 21	515	Oct 18	68000	Aug 23 1966
LOWEST DAILY MEAN	39	May 20	33	Jun 17	3.7	May 20 1991
ANNUAL SEVEN-DAY MINIMUM	43	May 15	36	May 14	4.5	May 18 1991
INSTANTANEOUS PEAK FLOW			1120	Jul 9	[b]120000	Aug 23 1966
INSTANTANEOUS PEAK STAGE			7.67	Jul 9	[c]42.10	Aug 23 1966
INSTANTANEOUS LOW FLOW			28	Jun 18	3.7	Oct 20 1976
ANNUAL RUNOFF (AC-FT)	62880		54060		106100	
10 PERCENT EXCEEDS	107		89		196	
50 PERCENT EXCEEDS	59		53		54	
90 PERCENT EXCEEDS	47		40		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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
APR												
11...	1500	48	688	102	8.3	8.0	7230	21.5	19.0	2300	540	223
MAY												
02...	1335	47	688	101	7.5	7.9	7310	26.0	23.5	2300	562	220
31...	1045	9.2	687	107	7.6	8.0	7980	32.0	26.0	2400	563	236
JUN												
27...	1125	49	693	88	6.2	8.0	7500	33.0	27.0	2200	502	218
AUG												
08...	1240	44	685	93	6.5	7.9	5990	33.0	27.0	1900	514	145
SEP												
13...	1045	41	693	97	7.1	7.9	7730	29.5	25.0	2300	563	213

DATE	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)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	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)
APR											
11...	11.7	7	804	--	1430	.8	8.0	1880	--	--	--
MAY											
02...	10.3	7	803	--	1460	.9	12.6	1950	--	--	--
31...	10.8	8	901	--	1670	.8	16.3	2050	--	--	--
JUN											
27...	11.1	8	835	--	1540	.9	10.7	1900	--	--	--
AUG											
08...	11.3	7	676	133	1140	.9	20.6	1600	4190	347	<50
SEP											
13...	10.4	8	855	--	1550	1.0	26.2	1990	--	--	--

08407000 PECOS RIVER AT PIERCE CANYON CROSSING, NEAR MALAGA, NM

LOCATION.--Lat 32°11'19", long 103°58'43", in SW$^1/_4$SW$^1/_4$NW$^1/_4$ 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, and estimated daily discharges, 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	66	63	57	e47	58	47	43	30	77	53	49
2	71	71	62	57	e47	56	40	42	46	64	53	52
3	74	76	63	56	e48	56	37	41	58	55	47	52
4	75	73	63	54	e48	57	46	46	50	51	47	48
5	75	100	62	53	e47	54	53	49	46	48	41	47
6	75	141	61	51	e47	53	45	42	64	45	38	47
7	64	134	61	51	e47	56	41	44	80	43	44	45
8	65	119	62	53	e47	54	37	41	58	48	44	43
9	65	108	62	e53	48	56	32	37	46	769	45	39
10	78	99	61	e54	47	52	35	34	43	227	44	33
11	69	93	60	e52	52	49	39	33	46	86	47	29
12	66	93	60	e52	54	49	40	32	42	74	43	33
13	76	89	60	e52	52	45	40	33	61	84	39	38
14	70	80	60	e51	54	45	39	27	62	58	51	37
15	66	73	60	e51	54	46	38	33	48	56	43	39
16	88	70	58	e52	53	45	35	28	45	112	40	47
17	487	68	58	e52	52	43	30	25	41	352	39	42
18	580	67	58	e53	48	43	32	27	40	369	39	37
19	582	66	60	e52	46	42	36	32	50	365	40	34
20	533	66	60	e51	51	39	32	35	93	365	37	42
21	540	64	59	e52	55	42	26	36	99	364	34	43
22	546	64	58	e51	56	40	31	35	85	366	37	41
23	559	64	57	e51	56	51	33	34	65	366	41	39
24	553	64	58	e51	62	57	37	40	56	373	40	39
25	395	62	59	e51	75	52	39	40	47	372	39	40
26	142	63	59	e50	73	51	39	35	41	274	39	39
27	107	64	59	e50	68	45	38	37	46	111	39	49
28	95	64	59	e49	56	43	38	34	80	68	39	43
29	87	64	59	e48	60	42	37	31	109	56	39	41
30	86	63	57	e48	---	40	37	30	77	52	40	37
31	82	---	57	e47	---	45	---	29	---	50	51	---
TOTAL	6518	2388	1855	1605	1550	1506	1129	1105	1754	5800	1312	1244
MEAN	210	79.6	59.8	51.8	53.4	48.6	37.6	35.6	58.5	187	42.3	41.5
MAX	582	141	63	57	75	58	53	49	109	769	53	52
MIN	64	62	57	47	46	39	26	25	30	43	34	29
AC-FT	12930	4740	3680	3180	3070	2990	2240	2190	3480	11500	2600	2470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

MEAN	176	107	90.0	78.2	70.4	51.9	39.2	213	165	105	156	255
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1938 - 2000	
ANNUAL TOTAL	31979		27766			
ANNUAL MEAN	87.6		75.9		126	
HIGHEST ANNUAL MEAN					1694	1941
LOWEST ANNUAL MEAN					18.7	1977
HIGHEST DAILY MEAN	1410	Jun 21	769	Jul 9	65000	Aug 23 1966
LOWEST DAILY MEAN	34	May 20	25	May 17	2.1	Jun 22 1978
ANNUAL SEVEN-DAY MINIMUM	39	May 15	29	May 12	2.6	Jul 21 1966
INSTANTANEOUS PEAK FLOW			2280	Jul 9	65000	Aug 23 1966
INSTANTANEOUS PEAK STAGE			4.59	Jul 9	[a]31.60	Aug 23 1966
INSTANTANEOUS LOW FLOW			18	May 17	.54	May 30 1965
ANNUAL RUNOFF (AC-FT)	63430		55070		91510	
10 PERCENT EXCEEDS	99		93		138	
50 PERCENT EXCEEDS	56		51		48	
90 PERCENT EXCEEDS	43		37		13	

e Estimated
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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
APR												
11...	1715	37	689	102	8.2	8.0	11000	19.0	19.0	2400	556	249
MAY												
02...	1515	40	685	104	7.6	7.9	10500	27.0	24.0	2500	570	253
31...	0925	30	687	98	7.0	8.0	11500	32.0	25.0	2400	541	247
JUN												
27...	1000	43	693	88	6.1	8.0	10200	34.5	27.5	2200	496	231
AUG												
08...	1440	43	686	103	7.3	7.9	9250	33.5	26.0	2000	524	166
SEP												
13...	0945	38	692	98	7.1	7.9	11700	25.0	24.8	2400	574	242

DATE	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)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	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)
APR											
11...	50.7	14	1550	--	2770	.8	8.1	1980	--	--	--
MAY											
02...	43.5	13	1460	--	2590	.9	10.4	2060	--	--	--
31...	41.9	14	1550	--	2820	.9	15.9	2180	--	--	--
JUN											
27...	38.0	13	1400	--	2450	.8	9.5	1940	--	--	--
AUG											
08...	42.9	13	1320	153	2200	.9	19.5	1700	6060	466	<100
SEP											
13...	52.6	14	1640	--	2850	.9	20.4	2070	--	--	--

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 estimated daily discharges, 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e64	e69	61	59	54	67	52	39	35	e79	52	50
2	e64	e75	60	59	55	65	47	43	65	e69	57	e48
3	e65	e76	59	58	55	63	45	43	57	e60	50	e47
4	e66	e75	61	56	54	64	45	44	54	e54	48	e47
5	e66	e80	59	57	52	63	53	48	51	e47	48	e46
6	e65	e164	59	56	51	62	52	47	49	44	41	e46
7	e61	e179	59	55	51	62	45	44	82	42	43	e45
8	e62	e156	58	55	51	61	43	44	68	41	47	e44
9	e62	e117	60	57	51	61	41	42	52	115	46	e41
10	e67	e100	60	61	51	60	40	40	44	366	45	e36
11	e66	e94	60	61	51	55	42	37	45	116	44	e32
12	e64	e93	58	58	57	55	42	37	46	100	47	e34
13	e70	e91	59	55	55	53	44	36	44	106	43	e38
14	e65	e83	60	54	55	52	43	36	62	62	43	e38
15	e80	e75	59	54	57	52	43	35	53	56	49	e40
16	e92	e70	59	55	55	51	41	36	45	48	44	e47
17	e440	e67	59	58	53	50	40	35	43	242	41	e45
18	e480	e66	58	60	51	49	38	33	43	322	41	e40
19	e494	e65	59	61	48	49	37	33	44	324	40	e37
20	e470	e64	59	60	49	48	39	36	110	325	40	e34
21	e500	e63	59	60	55	46	38	38	106	322	39	39
22	e513	61	60	59	56	46	37	39	93	327	37	43
23	e516	61	59	59	56	48	36	37	71	328	38	41
24	e500	62	59	59	57	61	35	37	57	332	40	40
25	e480	60	60	59	75	57	40	43	50	340	40	40
26	e325	60	60	56	79	56	42	40	52	316	40	40
27	e160	61	60	53	75	52	41	38	47	168	40	43
28	e122	62	60	52	70	48	40	38	59	86	40	47
29	e100	61	60	51	66	47	40	38	154	64	39	42
30	e95	61	59	52	---	46	40	37	84	56	40	41
31	e84	---	59	51	---	46	---	36	---	53	141	---
TOTAL	6358	2471	1841	1760	1645	1695	1261	1209	1865	5010	1443	1251
MEAN	205	82.4	59.4	56.8	56.7	54.7	42.0	39.0	62.2	162	46.5	41.7
MAX	516	179	61	61	79	67	53	48	154	366	141	50
MIN	61	60	58	51	48	46	35	33	35	41	37	32
AC-FT	12610	4900	3650	3490	3260	3360	2500	2400	3700	9940	2860	2480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

MEAN	270	157	123	111	96.2	69.8	58.3	212	179	117	153	274
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1938 - 2000	
ANNUAL TOTAL	37894		27809			
ANNUAL MEAN	104		76.0		152	
HIGHEST ANNUAL MEAN					1655	1941
LOWEST ANNUAL MEAN					19.2	1977
HIGHEST DAILY MEAN	3400	Jun 21	[e]516	Oct 23	50700	Aug 24 1966
LOWEST DAILY MEAN	31	May 21	[e]32	Sep 11	.22	Aug 1 1966
ANNUAL SEVEN-DAY MINIMUM	37	May 16	35	May 13	.33	Jul 26 1966
INSTANTANEOUS PEAK FLOW			[e]520	Oct 24	[a]111000	Aug 23 1966
INSTANTANEOUS PEAK STAGE			6.11	Jul 10	33.32	Aug 23 1966
INSTANTANEOUS LOW FLOW			[e]32	Sep 11	.19	Aug 1 1966
ANNUAL RUNOFF (AC-FT)	75160		55160		110100	
10 PERCENT EXCEEDS	124		100		208	
50 PERCENT EXCEEDS	58		55		57	
90 PERCENT EXCEEDS	45		39		14	

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 NE$^1/_4$SW$^1/_4$SE$^1/_4$ 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 good except for estimated daily discharges, which are 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.93	1.1	e.85	1.3	2.4	1.7	1.2	.03	.00	.00	.00	63
2	.71	1.1	e.87	1.3	2.6	1.7	1.3	.01	.00	.00	.00	2.0
3	.54	1.1	e.89	1.3	2.6	1.6	1.3	.00	.00	7.4	.00	.32
4	.40	1.2	.86	1.3	2.3	1.6	1.2	.00	.00	.01	.00	.10
5	.40	1.2	.89	1.4	2.0	1.6	1.0	.00	.00	.00	.00	.02
6	.40	1.2	.90	1.5	2.0	1.6	.87	.00	.00	.00	.00	.00
7	.40	1.2	.91	1.6	2.0	1.6	.74	.00	.00	.00	.00	.00
8	.40	1.2	.93	1.6	2.0	1.5	.61	.00	.00	.00	.00	.00
9	.38	1.1	.95	1.6	2.0	1.5	.56	.00	.00	1.7	.00	.00
10	.39	1.1	.95	1.7	2.0	1.4	.52	.00	.00	.07	.00	.00
11	.41	1.1	.96	1.7	1.9	1.4	.46	.00	.00	.00	.00	.00
12	.42	1.1	.99	1.7	1.8	1.5	.41	.00	.00	.00	.00	.00
13	.47	1.1	1.0	1.7	1.8	1.5	.37	.00	.00	.00	.00	.00
14	.49	1.0	1.0	1.8	1.8	1.5	.31	.00	2.1	.00	.00	.00
15	.50	1.0	1.0	1.8	1.8	1.4	.26	.00	.59	.00	.00	.00
16	.47	1.0	1.1	1.8	1.8	1.4	.23	.00	.14	.00	.00	.00
17	.48	1.0	1.1	1.9	1.8	1.4	.22	.00	.06	.00	.00	.00
18	.58	1.0	1.0	1.9	1.7	1.5	.21	.00	3.1	.00	.00	.00
19	.69	.95	1.1	1.9	1.7	1.5	.20	.00	.16	.00	.00	.00
20	.77	.91	1.1	1.9	1.7	1.5	.18	.00	.07	.00	.00	.00
21	.81	.95	1.1	2.0	1.8	1.4	.17	.00	.01	.00	.00	.00
22	.83	.90	1.1	2.0	1.9	1.5	.16	.00	.00	.00	.00	.00
23	.86	.86	1.1	2.0	1.8	1.5	.14	.00	.00	.00	.00	.00
24	.88	.86	1.2	2.0	1.7	1.4	.13	.00	.00	.00	.00	.00
25	.90	.86	1.2	2.0	1.7	1.4	.12	.00	.00	.00	.00	.00
26	.92	.86	1.2	2.0	1.7	1.4	.11	.00	.00	.00	.00	.00
27	.97	.88	1.2	2.1	1.7	1.3	.10	.00	.00	.00	.00	.00
28	.97	.84	1.3	2.1	1.6	1.3	.08	.00	.00	.00	.00	.00
29	1.0	.83	1.3	2.1	1.6	1.3	.07	.00	.00	.00	.00	.00
30	1.0	e.83	1.2	2.2	---	1.3	.06	.00	.00	.00	.00	.00
31	1.1	---	1.3	2.2	---	1.2	---	.00	---	.00	150	---
TOTAL	20.47	30.33	32.55	55.4	55.2	45.4	13.29	0.04	6.23	9.18	150.00	65.44
MEAN	.66	1.01	1.05	1.79	1.90	1.46	.44	.001	.21	.30	4.84	2.18
MAX	1.1	1.2	1.3	2.2	2.6	1.7	1.3	.03	3.1	7.4	150	63
MIN	.38	.83	.85	1.3	1.6	1.2	.06	.00	.00	.00	.00	.00
AC-FT	41	60	65	110	109	90	26	.08	12	18	298	130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

MEAN	27.7	3.37	3.16	3.24	3.03	2.70	5.48	9.06	19.0	13.5	21.3	21.1
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	.001	.000	.000	.000	.000
(WY)	1952	1965	1966	1965	1966	1993	1968	2000	1950	1947	1983	1953

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1938 - 2000	
ANNUAL TOTAL	3327.50		483.53			
ANNUAL MEAN	9.12		1.32		11.1	
HIGHEST ANNUAL MEAN					66.1	1956
LOWEST ANNUAL MEAN					1.32	2000
HIGHEST DAILY MEAN	2160	Jun 21	150	Aug 31	22000	Oct 2 1955
LOWEST DAILY MEAN	.00	May 8	.00	May 3	[c].00	Jun 12 1938
ANNUAL SEVEN-DAY MINIMUM	.00	May 8	.00	May 3	.00	Jul 29 1946
INSTANTANEOUS PEAK FLOW			357	Aug 31	[a]81400	Oct 2 1955
INSTANTANEOUS PEAK STAGE			5.00	Aug 31	[b]27.00	Oct 2 1955
INSTANTANEOUS LOW FLOW			.00	May 3	.00	Jun 11 1938
ANNUAL RUNOFF (AC-FT)	6600		959		8040	
10 PERCENT EXCEEDS	3.4		1.8		6.9	
50 PERCENT EXCEEDS	1.0		.58		2.1	
90 PERCENT EXCEEDS	.11		.00		.00	

e Estimated
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 and Control District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 352,000 acre-ft, Sept. 27, 28, 1941, gage height, 2,846.2 ft, observed on nonrecording gage at service spillway (affected by variable drawdown due to flow through tainter gates); minimum observed, 11,080 acre-ft, May 13, 1948, gage height, 2,781.4 ft.

EXTREMES (AT 0800) FOR CURRENT YEAR.--Maximum contents observed, 90,100 acre-ft, Apr. 3, 11, gage height, 2,815.63 ft; minimum observed, 47,030 acre-ft, Sept. 27, gage height, 2,804.16 ft.

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

2,804.0	46,580	2,810.0	66,220	2,820.0	112,200
2,805.0	49,440	2,812.0	74,090	2,822.0	123,600
2,806.0	52,460	2,814.0	82,630	2,818.0	101,700
2,808.0	59,000	2,816.0	91,830		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79060	85380	85340	86700	87990	89590	90010	78850	70500	66720	63710	52310
2	79410	85290	85380	86700	88370	89630	89960	78540	70800	66450	63050	52310
3	79100	85290	85480	86790	88510	89680	90100	78240	70400	66330	62680	52070
4	79060	85290	85930	86740	88510	89730	89960	77990	70070	66070	62320	51830
5	79100	85290	85480	86650	88560	89730	90010	77700	69730	65810	61970	51560
6	79150	85250	85480	86880	88650	89770	90060	77440	69460	65560	61550	51310
7	79150	85340	85520	86830	88700	89770	90010	77150	69150	65260	61200	51070
8	79150	85480	85560	86920	88790	89730	89960	76820	68800	64850	60910	50800
9	79150	85560	85660	86920	88790	89770	89960	76560	68450	64670	60700	50470
10	79150	85480	85610	87060	88880	89770	89960	76190	68180	64560	60460	50260
11	79150	85380	85750	86970	88880	89820	90100	75890	67950	64820	60070	50040
12	79150	85340	85750	87020	88980	89770	89820	75520	67840	64710	59750	49800
13	79230	85250	85660	87060	88980	89910	89400	75220	67720	64480	59360	49470
14	79280	85250	85660	87100	88930	89910	88840	74930	67840	64230	59050	49240
15	79320	85110	85750	87100	89070	89870	88180	74680	67340	63930	58680	49040
16	79500	85070	85750	87200	89160	89820	87570	74430	67410	63600	58310	48750
17	79540	85070	85840	87240	89160	89820	87020	74260	66950	63300	58000	48520
18	79580	85070	85930	87340	89120	89910	86430	73850	67030	63190	57670	48290
19	80280	85070	86020	87380	89160	89820	85800	73530	66950	63270	57200	48090
20	80890	85110	85930	87430	89210	89770	85120	73250	67260	63420	56760	47840
21	81630	85110	86020	87480	89210	89960	84530	72970	67380	63530	56260	47550
22	82280	85160	86060	87570	89300	90060	83760	72770	67380	63600	55790	47320
23	82900	85070	86150	87670	89300	89820	83130	72530	67380	63710	55300	47260
24	83530	85110	86200	87670	89350	89770	82500	72280	67340	63820	54950	47200
25	84260	85110	86240	87710	89350	89910	82020	72080	67260	64150	54600	47120
26	84890	85160	86290	87760	89350	89870	81370	71880	67180	64520	54250	47060
27	85070	85250	86420	87900	89440	89960	80850	71680	67100	64710	53840	47030
28	85250	85250	86470	87810	89490	89960	80370	71520	66990	64630	53420	47030
29	85250	85290	86470	87850	89590	89910	79890	71360	66840	64370	53040	47060
30	85290	85340	86600	87900	---	89870	79370	71200	66870	64040	52620	47090
31	85340	---	86650	87950	---	89870	---	70840	---	63710	52310	---
MAX	85340	85560	86650	87950	89590	90060	90100	78850	70800	66720	63710	52310
MIN	79060	85070	85340	86650	87990	89590	79370	70840	66840	63190	52310	47030
(+)	2814.60	2814.60	2814.89	2815.17	2815.52	2815.58	2813.25	2811.19	2810.17	2809.32	2805.95	2804.18
(++)	+6280	0	+1310	+1300	+1640	+280	-10500	-8530	-3970	-3160	-11400	-5220

CAL YR 1999 MAX 88320 MIN 61160 (++) +18,120
WTR YR 2000 MAX 90100 MIN 47030 (++) -31,970

(+) 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 estimated daily discharges, 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	16	16	14	9.5	7.1	4.9	238	137	141	176	153
2	16	16	16	13	9.1	6.9	4.9	136	224	139	176	152
3	17	e16	16	13	8.1	6.3	5.0	135	139	138	177	151
4	17	e16	15	13	7.1	6.2	4.6	134	134	136	177	151
5	17	e15	15	14	6.6	6.6	4.7	134	129	136	181	152
6	17	e15	15	14	6.3	6.6	4.6	134	149	136	186	152
7	17	e15	15	14	6.1	6.8	4.3	134	133	136	176	154
8	17	e15	15	14	5.7	6.4	4.4	134	130	136	143	181
9	18	e16	15	14	5.6	6.5	4.4	133	129	134	140	162
10	18	e15	15	14	5.5	6.4	4.6	132	124	138	141	127
11	18	e14	15	13	5.4	6.1	12	130	56	165	179	128
12	18	e15	15	13	5.6	6.1	57	111	58	175	170	129
13	18	e14	15	13	4.8	6.1	366	76	67	174	175	128
14	18	e15	15	13	4.4	6.1	372	75	71	173	175	127
15	18	e15	15	13	5.8	6.1	369	80	105	172	175	130
16	18	e15	15	13	8.5	5.9	366	100	98	170	175	126
17	17	e16	15	13	8.0	5.9	364	99	98	170	177	127
18	28	e16	15	12	7.6	5.8	362	99	106	203	188	126
19	60	e15	14	13	7.1	5.8	358	98	93	211	229	127
20	60	e15	14	12	6.4	5.4	353	98	126	212	229	127
21	59	e14	14	12	7.4	5.2	356	97	62	218	230	126
22	59	e15	14	12	7.4	5.2	363	96	60	222	231	114
23	59	e15	14	12	7.1	5.0	357	94	61	224	226	39
24	59	e16	14	12	7.1	5.1	345	93	61	199	207	35
25	59	e15	14	12	7.1	5.2	342	78	59	90	207	30
26	59	e15	14	12	6.8	5.2	330	44	59	129	209	27
27	53	e15	14	12	6.9	5.2	273	43	59	200	207	17
28	18	e15	14	12	7.0	5.1	269	43	88	135	206	15
29	17	e16	14	11	6.9	5.0	267	42	144	183	205	13
30	16	16	14	11	---	4.8	265	55	137	175	207	10
31	16	---	14	10	---	4.8	---	134	---	176	200	---
TOTAL	918	457	455	393	196.9	180.9	6192.4	3229	3096	5146	5880	3236
MEAN	29.6	15.2	14.7	12.7	6.79	5.84	206	104	103	166	190	108
MAX	60	16	16	14	9.5	7.1	372	238	224	224	231	181
MIN	16	14	14	10	4.4	4.8	4.3	42	56	90	140	10
AC-FT	1820	906	902	780	391	359	12280	6400	6140	10210	11660	6420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

MEAN	151	67.8	40.9	37.9	43.3	83.4	198	198	223	237	193	226
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1938 - 2000	
ANNUAL TOTAL	28742		29380.2			
ANNUAL MEAN	78.7		80.3		142	
HIGHEST ANNUAL MEAN					1284	1941
LOWEST ANNUAL MEAN					13.1	1953
HIGHEST DAILY MEAN	1800	Jun 23	372	Apr 14	23700	Sep 28 1941
LOWEST DAILY MEAN	10	Jan 2	4.3	Apr 7	.00	Sep 9 1946
ANNUAL SEVEN-DAY MINIMUM	11	Jan 13	4.5	Apr 4	.00	Jul 7 1965
INSTANTANEOUS PEAK FLOW			493	Jun 2	23700	Sep 29 1941
INSTANTANEOUS PEAK STAGE			5.65	Jun 2	20.74	Sep 29 1941
INSTANTANEOUS LOW FLOW			1.0	Nov 10	.00	Sep 9 1946
ANNUAL RUNOFF (AC-FT)	57010		58280		102800	
10 PERCENT EXCEEDS	182		205		358	
50 PERCENT EXCEEDS	17		18		33	
90 PERCENT EXCEEDS	11		6.1		5.3	

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 transfered 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, 11,000 microsiemens, Apr. 11; minimum daily, 6,570 microsiemens, June 20.
WATER TEMPERATURE: Maximum daily, 28.5 °C, Sept. 6; minimum daily, 12.0 °C, Oct. 18-19.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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)
APR									
11...	1000	4.6	692	100	8.4	7.7	11000	22.0	17.0
MAY									
02...	1100	136	691	95	7.8	8.1	8550	20.0	18.5
31...	0800	133	690	73	5.7	7.4	9130	31.0	21.0
JUN									
27...	0810	59	693	83	6.1	7.8	9390	23.5	24.5
AUG									
08...	1100	146	690	91	7.3	7.8	9550	28.0	19.5
SEP									
13...	0830	132	693	77	5.7	7.9	9690	25.0	24.0

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
APR									
11...	2600	--	656	240	30.0	13	1550	--	--
MAY									
02...	2300	--	575	198	28.0	11	1160	--	--
31...	2100	--	535	197	27.0	11	1150	--	--
JUN									
27...	2100	2000	520	194	26.3	11	1140	--	72
AUG									
08...	2400	--	614	218	29.9	11	1270	64	--
SEP									
13...	2400	--	605	222	35.2	12	1310	--	--

DATE	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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, 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)
APR									
11...	--	--	2720	1.0	8.8	2240	--	--	--
MAY									
02...	--	--	1960	.7	9.3	1940	--	--	--
31...	--	--	2080	.8	8.9	2020	--	--	--
JUN									
27...	88	0	2150	.8	9.0	2080	6160	--	--
AUG									
08...	--	--	2160	.8	12.5	2140	6490	466	<100
SEP									
13...	--	--	2210	.8	13.1	2150	--	--	--

08412500 PECOS RIVER NEAR ORLA, TX--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	22.0	24.5	---	23.0
2	---	---	---	---	---	---	---	---	20.5	24.5	---	23.5
3	---	---	---	---	---	---	---	18.5	23.5	25.0	---	23.5
4	---	---	---	---	---	---	---	19.0	24.0	25.0	---	24.0
5	18.0	---	---	---	---	---	---	19.5	23.5	25.5	---	23.0
6	19.0	---	---	---	---	---	---	19.0	23.0	27.5	---	23.0
7	20.0	---	---	---	---	---	---	---	22.0	24.5	---	28.5
8	18.0	---	---	---	---	---	---	18.0	23.0	25.0	19.5	23.5
9	17.0	---	---	---	---	---	---	19.0	22.5	25.5	24.5	23.5
10	17.0	---	---	---	---	---	---	19.5	22.5	26.0	24.0	24.0
11	17.0	---	---	---	---	---	17.0	19.5	23.0	25.0	24.0	23.5
12	17.5	---	---	---	---	---	12.0	20.0	23.0	25.0	23.5	23.5
13	18.0	---	---	---	---	---	15.5	19.5	23.5	25.0	24.0	24.0
14	18.0	---	---	---	---	---	15.0	19.0	23.5	25.0	23.5	24.0
15	18.0	---	---	---	---	---	15.0	21.0	24.0	25.0	23.5	23.5
16	17.0	---	---	---	---	---	15.5	21.0	24.0	25.0	24.0	23.5
17	15.0	---	---	---	---	---	17.0	21.0	23.0	24.5	23.5	23.0
18	12.0	---	---	---	---	---	16.0	19.0	23.5	25.5	24.0	22.5
19	13.0	---	---	---	---	---	12.0	19.5	24.0	25.0	23.0	22.0
20	13.0	---	---	---	---	---	17.0	19.0	23.5	24.5	23.0	22.0
21	13.0	---	---	---	---	---	17.0	20.0	24.5	25.0	24.5	22.5
22	13.5	---	---	---	---	---	18.0	20.5	25.5	25.0	23.5	22.0
23	15.0	---	---	---	---	---	17.5	20.0	25.0	25.0	24.0	22.5
24	---	---	---	---	---	---	18.5	20.5	25.0	26.5	24.0	22.5
25	14.0	---	---	---	---	---	17.5	21.5	26.5	---	23.5	18.5
26	14.0	---	---	---	---	---	18.0	21.5	25.5	26.0	23.5	23.5
27	---	---	---	---	---	---	22.0	26.0	24.5	25.0	23.5	23.5
28	---	---	---	---	---	---	19.0	23.0	24.5	---	24.0	20.0
29	---	---	---	---	---	---	18.5	---	23.5	---	24.0	23.5
30	---	---	---	---	---	---	18.0	22.5	24.5	---	24.0	23.5
31	---	---	---	---	---	---	---	19.5	---	---	26.0	---
MEAN	16.0	---	---	---	---	---	16.8	20.2	23.7	25.2	23.7	23.1
MAX	20.0	---	---	---	---	---	22.0	26.0	26.5	27.5	26.0	28.5
MIN	12.0	---	---	---	---	---	12.0	18.0	20.5	24.5	19.5	18.5

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	8510	9160	9390	9850	9440
2	---	---	---	---	---	---	---	8610	6570	9490	9820	9460
3	---	---	---	---	---	---	---	8710	9080	9490	9840	9450
4	---	---	---	---	---	---	---	8380	9120	9460	9930	9470
5	8700	---	---	---	---	---	---	8720	9160	9500	9820	9440
6	8650	---	---	---	---	---	---	8690	9610	9450	9700	9460
7	8680	---	---	---	---	---	---	---	9150	9550	9790	9480
8	8710	---	---	---	---	---	---	8780	9170	9520	9660	9480
9	8720	---	---	---	---	---	---	8890	9220	9580	9660	9460
10	8650	---	---	---	---	---	---	8790	9240	9590	9710	9520
11	8650	---	---	---	---	---	11000	8870	9310	9590	9670	9480
12	8640	---	---	---	---	---	8720	8960	9080	9630	---	9490
13	8650	---	---	---	---	---	8430	8880	9340	9600	9630	9550
14	8680	---	---	---	---	---	8590	8970	9320	9650	9700	9550
15	8680	---	---	---	---	---	8380	8900	9330	9620	9630	9590
16	8650	---	---	---	---	---	8420	8950	9330	9650	9620	9580
17	8650	---	---	---	---	---	8420	8920	9420	9620	9380	9590
18	8910	---	---	---	---	---	8430	9000	9000	9610	9360	9630
19	7720	---	---	---	---	---	8410	8980	9440	9710	9360	9620
20	7880	---	---	---	---	---	8490	8990	8030	9670	9360	9630
21	7710	---	---	---	---	---	8410	8980	9440	9720	9380	9660
22	7750	---	---	---	---	---	8450	9000	9430	9700	9380	9660
23	7950	---	---	---	---	---	8520	9010	9440	9750	9380	9760
24	---	---	---	---	---	---	8500	8980	9430	9810	9440	9760
25	8080	---	---	---	---	---	8440	9010	9470	---	9430	9810
26	8000	---	---	---	---	---	8460	9110	9480	9940	9420	9830
27	---	---	---	---	---	---	8550	9110	9440	9820	9450	9850
28	---	---	---	---	---	---	8530	9090	9470	9900	9420	9970
29	---	---	---	---	---	---	8500	9100	9320	9820	9430	10000
30	---	---	---	---	---	---	8580	9160	9380	9840	9420	10000
31	---	---	---	---	---	---	---	9110	---	9820	9410	---
MEAN	8410	---	---	---	---	---	8610	8910	9180	9650	9570	9620
MAX	8910	---	---	---	---	---	11000	9160	9610	9940	9930	10000
MIN	7710	---	---	---	---	---	8380	8380	6570	9390	9360	9440

08418010 PECOS RIVER NEAR BARSTOW, TX

LOCATION.--Lat 31°32'49", long 103°29'44", Ward County, Hydrologic Unit 13070001, on left bank 1500 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.--October 2000 to September 2000.

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, 370 ft^3/s, Apr. 18, 2000, gage height, 3.92 ft, minimum discharge, .11 ft^3/s, Jan. 29, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 370 ft^3/s, Apr. 18, gage height, 3.92 ft, minimum discharge, .11 ft^3/s, Jan. 29.

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	11	1.6	9.9	19	8.6	3.5	1.4	138	19	68	88	113
2	11	.93	8.6	20	8.8	3.6	1.5	148	75	83	78	129
3	11	.61	5.6	18	6.3	3.7	1.6	130	115	82	85	104
4	11	.78	5.4	12	8.5	3.7	1.5	105	143	81	89	95
5	10	1.0	3.8	7.0	6.1	3.5	1.4	85	109	93	87	90
6	10	3.8	3.9	6.8	8.4	3.5	1.5	69	123	78	103	91
7	9.5	13	8.0	3.8	6.6	3.5	1.3	71	122	78	121	97
8	9.2	18	11	7.1	4.8	2.9	1.2	78	136	76	129	99
9	8.9	18	25	9.4	5.1	2.5	1.0	78	130	72	134	113
10	8.6	19	8.8	7.7	4.6	2.5	.80	74	130	71	89	112
11	8.3	33	11	9.1	4.0	4.0	.73	74	129	71	78	124
12	8.4	58	12	9.1	3.3	3.3	.66	74	110	73	89	80
13	8.6	50	9.1	9.3	3.4	2.6	.48	72	48	82	94	73
14	8.5	44	12	7.4	3.3	2.5	1.4	64	35	76	97	79
15	8.5	50	6.6	7.4	3.0	2.5	86	48	32	79	106	93
16	7.9	45	9.4	8.9	2.6	2.4	98	44	33	91	107	92
17	7.7	41	14	9.9	2.4	1.8	143	46	50	90	107	82
18	7.7	21	14	9.9	2.3	2.5	149	48	42	80	107	77
19	5.3	16	15	10	2.1	2.4	182	53	74	81	105	79
20	5.7	14	12	9.7	2.1	2.2	151	49	74	85	109	85
21	7.4	8.2	12	8.7	4.2	2.3	155	60	95	88	108	74
22	8.5	9.2	9.2	9.5	5.2	2.2	244	65	100	89	106	54
23	9.0	14	12	9.2	4.4	2.0	258	72	39	88	107	53
24	9.8	14	18	9.2	3.9	2.4	244	72	23	108	113	49
25	9.5	14	17	9.1	3.4	2.5	208	67	19	122	111	38
26	11	14	19	8.9	3.8	2.4	265	64	13	103	101	18
27	16	11	18	9.0	3.6	2.0	254	49	12	38	98	19
28	21	11	15	6.3	4.0	1.6	197	31	11	39	98	19
29	21	10	16	4.7	3.7	1.4	177	28	39	65	100	18
30	9.2	9.9	19	5.7	---	1.3	152	18	39	77	99	14
31	5.0	---	17	8.5	---	1.3	---	11	---	92	106	---
TOTAL	304.2	564.02	377.3	290.3	132.5	80.5	2979.47	2085	2119	2499	3149	2263
MEAN	9.81	18.8	12.2	9.36	4.57	2.60	99.3	67.3	70.6	80.6	102	75.4
MAX	21	58	25	20	8.8	4.0	265	148	143	122	134	129
MIN	5.0	.61	3.8	3.8	2.1	1.3	.48	11	11	38	78	14
AC-FT	603	1120	748	576	263	160	5910	4140	4200	4960	6250	4490

08477110 MIMBRES RIVER AT MIMBRES, NM

LOCATION.--Lat 32°51'17", long 107°58'23", in NW$^1/_4$SW$^1/_4$ 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	10	8.0	7.1	5.7	3.5	3.0	3.2	1.9	11	.63	.92
2	15	10	8.1	7.1	5.7	3.4	3.0	3.9	2.0	10	.63	.90
3	15	10	8.0	7.0	5.5	3.4	2.9	4.1	2.3	5.9	.74	.87
4	14	11	8.0	6.9	5.3	3.5	2.9	4.5	2.3	4.9	.81	.90
5	13	10	7.6	7.0	5.2	3.5	3.0	5.1	2.2	4.6	.83	.94
6	14	10	7.8	6.9	5.2	3.5	2.8	5.9	2.1	4.4	.84	.97
7	13	9.9	7.6	6.9	5.2	3.7	2.9	5.6	2.1	5.3	.84	1.1
8	13	10	7.6	6.8	5.2	3.5	3.2	5.3	2.0	5.5	.84	.88
9	12	9.9	7.6	6.8	5.2	3.6	3.2	5.9	2.0	5.4	.91	.92
10	12	9.9	7.7	6.6	4.8	3.5	3.2	5.9	2.0	5.4	1.0	.86
11	12	9.8	7.5	6.5	4.6	3.5	3.2	7.4	2.0	5.2	1.1	.84
12	12	9.4	7.4	6.5	4.0	3.5	3.2	6.0	2.0	5.0	1.0	.81
13	11	9.4	7.4	6.3	4.1	3.1	3.3	5.4	2.0	4.7	1.0	.82
14	9.6	9.2	7.4	6.3	4.1	2.8	3.4	5.6	1.9	4.2	1.1	.78
15	10	9.1	7.6	6.2	4.1	2.3	3.2	5.4	1.7	1.9	1.1	.76
16	10	8.9	7.5	6.3	4.1	2.6	3.2	5.5	1.8	e1.6	1.0	.76
17	10	8.8	6.0	6.2	4.3	2.5	3.2	5.5	1.8	e1.2	1.1	.74
18	10	8.3	6.1	6.2	4.3	2.6	3.2	5.2	1.9	.90	1.2	.73
19	11	8.8	6.7	6.2	4.2	2.8	3.4	4.0	1.9	.81	1.1	.79
20	11	8.8	6.8	6.2	4.1	3.0	3.3	3.7	1.9	.81	1.1	.79
21	12	8.6	6.7	6.2	3.9	2.8	3.2	3.5	1.9	.73	1.1	.83
22	12	8.5	6.8	6.1	4.1	2.8	3.4	3.2	1.8	.63	1.0	.85
23	12	8.5	6.8	6.0	4.5	2.8	3.3	3.0	1.7	e.63	1.0	.84
24	12	8.3	6.8	6.0	5.5	2.9	3.2	2.8	1.7	e.63	.92	.84
25	11	8.3	6.7	6.0	5.3	2.9	2.9	2.5	1.7	e.63	.85	.88
26	11	8.2	6.3	5.9	4.8	2.9	3.1	2.5	1.8	e.63	.85	.97
27	11	8.2	6.5	5.7	4.6	2.9	3.1	2.4	2.0	e.63	.89	1.0
28	11	8.2	6.5	5.7	4.6	3.0	3.4	2.4	2.0	e.63	.91	.98
29	11	8.2	6.5	5.7	3.7	3.0	3.3	2.2	2.7	e.63	.89	.90
30	11	8.2	6.8	5.7	---	2.9	3.3	2.2	2.4	e.63	.92	.92
31	11	---	6.8	5.7	---	3.0	---	2.1	---	e.63	.93	---
TOTAL	369.6	274.4	221.6	196.7	135.9	95.7	94.9	131.9	59.5	95.75	29.13	26.09
MEAN	11.9	9.15	7.15	6.35	4.69	3.09	3.16	4.25	1.98	3.09	.94	.87
MAX	17	11	8.1	7.1	5.7	3.7	3.4	7.4	2.7	11	1.2	1.1
MIN	9.6	8.2	6.0	5.7	3.7	2.3	2.8	2.1	1.7	.63	.63	.73
AC-FT	733	544	440	390	270	190	188	262	118	190	58	52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2000, BY WATER YEAR (WY)

MEAN	13.4	13.1	32.0	27.3	26.8	31.8	23.5	15.3	8.04	11.6	32.3	13.3
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1978 - 2000	
ANNUAL TOTAL	6916.6		1731.17			
ANNUAL MEAN	18.9		4.73		20.8	
HIGHEST ANNUAL MEAN					45.1	1985
LOWEST ANNUAL MEAN					4.73	2000
HIGHEST DAILY MEAN	528	Aug 5	17	Oct 1	2500	Dec 28 1984
LOWEST DAILY MEAN	2.1	Jun 10	.63	Jul 22	.07	Jul 11 1994
ANNUAL SEVEN-DAY MINIMUM	2.2	Jun 6	.63	Jul 22	.34	Jul 8 1994
INSTANTANEOUS PEAK FLOW			104	Jul 1	[a]6360	Dec 28 1984
INSTANTANEOUS PEAK STAGE			2.64	Jul 1	[b]8.05	Dec 28 1984
INSTANTANEOUS LOW FLOW			.20	Sep 18	.20	Sep 18 2000
ANNUAL RUNOFF (AC-FT)	13720		3430		15050	
10 PERCENT EXCEEDS	23		10		48	
50 PERCENT EXCEEDS	7.8		3.8		8.3	
90 PERCENT EXCEEDS	3.1		.85		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$^1/_4$NE$^1/_4$ sec.16, T.12 S., R.6 E., Sierra County Hydrologic Unit 10301103, on right bank, 360 ft upstream from Range Road 316, .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 estimated daily discharges, which are poor.

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	.47	1.0	e.95	e1.1	1.4	.74	.76	.47	.36	.68	e.60	e.81
2	.47	.94	e.95	e1.2	1.3	.75	.86	.47	.38	.62	e.62	e.79
3	.49	1.0	e.96	e1.1	1.3	.75	.74	.46	.41	.57	e.58	e.76
4	.48	1.0	e.96	e1.0	1.2	.74	e.72	.45	.41	.54	e.57	e.72
5	.50	1.0	e.95	e1.0	1.2	.72	e.72	.44	.36	.53	e.56	e.70
6	.49	1.0	e.95	e1.0	1.2	.73	e.71	.43	.37	.54	e.54	e.68
7	.48	1.0	e.96	e1.1	1.2	.73	e.70	.42	.38	.53	e.55	e.64
8	.48	1.0	e.96	e1.1	1.2	.75	e.68	.41	.36	.52	e.53	e.58
9	.50	1.1	e.95	e1.0	1.2	.75	e.66	.43	.44	.52	e.50	e.54
10	.53	1.0	e.96	e1.1	1.1	.74	e.62	.42	.40	.51	e.60	e.48
11	.54	1.0	e.95	e1.1	1.0	.74	e.60	.37	.40	.51	e.60	e.44
12	.55	1.0	e.95	e1.2	1.0	.74	e.58	.43	.39	.50	e.62	e.40
13	.55	1.0	e.95	e1.2	.99	.74	e.52	.43	.39	.51	e.64	e.38
14	.54	1.0	e.95	1.4	.97	.73	e.48	.44	.36	.53	e.64	e.36
15	.55	.99	e.97	1.4	.97	.71	e.40	.43	.37	.53	e.64	.30
16	2.2	.98	e.96	1.4	.93	.69	e.42	.39	.35	.51	e.65	.28
17	41	.98	e.97	1.4	.87	.70	e.44	.41	1.2	.49	e.66	.27
18	1.7	.98	e.98	1.4	.90	.69	.40	.43	4.6	.50	e.66	.26
19	.78	.97	e.98	1.4	.90	.69	.56	.45	7.5	.84	e.68	.25
20	.69	.97	e.96	1.4	.91	.65	.58	.45	1.9	.66	e.68	.23
21	.66	.97	e.96	1.4	.87	.72	.57	.45	.79	.50	e.70	.22
22	.86	.99	e.97	1.4	.89	.84	.53	.44	.55	.45	e.73	e.24
23	1.0	.97	e.98	1.4	.86	.88	.54	.44	.53	.53	e.72	e.30
24	1.0	.94	e.99	1.4	.81	.77	.52	.42	.49	.49	e.74	e.32
25	.99	.96	e1.0	1.4	.79	.73	.48	.40	.50	.47	e.76	e.34
26	.99	.98	e.98	1.3	.77	.74	.47	.41	2.5	.44	e.77	e.34
27	1.0	.99	e.99	1.3	.76	.73	.46	.38	17	3.4	e.76	.29
28	.98	.97	e1.0	1.3	.70	.72	.46	.38	1.8	.71	e.80	.31
29	.96	.97	e1.0	1.3	.74	.73	.42	.37	1.8	.49	e.80	.33
30	.94	.99	e1.0	1.3	---	.71	.45	.36	1.1	.54	e.78	.33
31	.99	---	e1.2	1.3	---	.69	---	.36	---	e.56	e.80	---
TOTAL	64.36	29.64	30.24	38.8	28.93	22.74	17.05	13.04	48.39	19.72	20.48	12.89
MEAN	2.08	.99	.98	1.25	1.00	.73	.57	.42	1.61	.64	.66	.43
MAX	41	1.1	1.2	1.4	1.4	.88	.86	.47	17	3.4	.80	.81
MIN	.47	.94	.95	1.0	.70	.65	.40	.36	.35	.44	.50	.22
AC-FT	128	59	60	77	57	45	34	26	96	39	41	26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2000, BY WATER YEAR (WY)

MEAN	.87	.83	.79	.81	.65	.66	.58	.49	1.27	2.91	2.01	1.17
MAX	2.08	1.80	1.17	1.25	1.00	.87	.76	.94	2.46	6.80	3.22	2.25
(WY)	2000	1999	1998	2000	2000	1999	1999	1997	1996	1999	1996	1995
MIN	.13	.34	.50	.55	.43	.51	.39	.25	.24	.64	.40	.22
(WY)	1996	1996	1996	1998	1998	1996	1996	1996	1998	2000	1997	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1995 - 2000	
ANNUAL TOTAL	600.06		346.28			
ANNUAL MEAN	1.64		.95		1.07	
HIGHEST ANNUAL MEAN					1.53	1999
LOWEST ANNUAL MEAN					.73	1998
HIGHEST DAILY MEAN	70	Jul 18	41	Oct 17	70	Jul 18 1999
LOWEST DAILY MEAN	.45	Jul 7	.22	Sep 21	.06	Oct 5 1995
ANNUAL SEVEN-DAY MINIMUM	.48	Jul 7	.25	Sep 16	.08	Oct 3 1995
INSTANTANEOUS PEAK FLOW			100	Oct 17	100	Oct 17 1999
INSTANTANEOUS PEAK STAGE			4.20	Oct 17	4.20	Oct 17 1999
INSTANTANEOUS LOW FLOW			.22	Sep 20	.22	Sep 20 2000
ANNUAL RUNOFF (AC-FT)	1190		687		776	
10 PERCENT EXCEEDS	1.1		1.2		1.2	
50 PERCENT EXCEEDS	.68		.72		.51	
90 PERCENT EXCEEDS	.50		.40		.24	

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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)
OCT											
22...	1230	1.1	--	--	--	--	--	23.5	9.5	--	--
NOV											
30...	1300	.94	--	--	--	--	--	17.0	5.5	--	--
JAN											
31...	1225	1.3	--	--	--	--	--	14.5	4.0	--	--
FEB											
28...	1145	.67	--	--	--	--	--	22.5	5.5	--	--
APR											
03...	1215	.78	--	--	--	--	--	17.0	10.0	--	--
MAY											
01...	1620	.47	--	--	--	--	--	16.5	9.5	--	--
23...	1100	.46	653	109	8.3	7.8	25500	30.0	16.5	3900	3700
JUN											
02...	1025	.35	--	--	--	--	--	31.0	20.0	--	--
JUL											
30...	1230	.52	662	131	8.4	7.2	38100	32.5	23.5	3800	3700
SEP											
01...	1135	.81	--	--	--	--	--	29.5	18.0	--	--
21...	1115	.23	--	--	--	--	--	25.5	18.0	--	--

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
OCT											
22...	--	--	--	--	--	--	--	--	--	--	--
NOV											
30...	--	--	--	--	--	--	--	--	--	--	--
JAN											
31...	--	--	--	--	--	--	--	--	--	--	--
FEB											
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
03...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
23...	870	407	136	37	5320	145	140	171	0	8880	5.1
JUN											
02...	--	--	--	--	--	--	--	--	--	--	--
JUL											
30...	869	391	167	57	8110	103	102	124	0	12200	2.2
SEP											
01...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--

08480595 SALT CREEK AT TULAROSA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT											
22...	--	--	--	--	--	--	--	--	--	--	--
NOV											
30...	--	--	--	--	--	--	--	--	--	--	--
JAN											
31...	--	--	--	--	--	--	--	--	--	--	--
FEB											
28...	--	--	--	--	--	--	--	--	--	--	--
APR											
03...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
23...	12.6	4130	.22	.42	.104	<.050	<.010	.009	<.010	.023	21000
JUN											
02...	--	--	--	--	--	--	--	--	--	--	--
JUL											
30...	2.9	4410	1.3	1.6	.097	<.050	<.010	.016	<.010	.054	27000
SEP											
01...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	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)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)
OCT										
22...	--	--	--	--	--	--	--	--	--	--
NOV										
30...	--	--	--	--	--	--	--	--	--	--
JAN										
31...	--	--	--	--	--	--	--	--	--	--
FEB										
28...	--	--	--	--	--	--	--	--	--	--
APR										
03...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	--	--	--	--	--	--	--	--	--	--
23...	19900	<240	123	2.9	5	39	20.2	1030	509	2.34
JUN										
02...	--	--	--	--	--	--	--	--	--	--
JUL										
30...	26300	<375	236	<20.0	3	157	151	1230	1130	1.66
SEP										
01...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--

DATE	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)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT										
22...	--	--	--	--	--	--	--	--	--	--
NOV										
30...	--	--	--	--	--	--	--	--	--	--
JAN										
31...	--	--	--	--	--	--	--	--	--	--
FEB										
28...	--	--	--	--	--	--	--	--	--	--
APR										
03...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	--	--	--	--	--	--	--	--	--	--
23...	<1.4	<1.1	<10.0	<10	16	15	<160	<250	<10	<10
JUN										
02...	--	--	--	--	--	--	--	--	--	--
JUL										
30...	<1.4	<1.1	<8.0	26	<13	<12	<250	<310	<10	<10
SEP										
01...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--

08480595 SALT CREEK AT TULAROSA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
OCT										
22...	--	--	--	--	--	--	--	--	--	--
NOV										
30...	--	--	--	--	--	--	--	--	--	--
JAN										
31...	--	--	--	--	--	--	--	--	--	--
FEB										
28...	--	--	--	--	--	--	--	--	--	--
APR										
03...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	--	--	--	--	--	--	--	--	--	--
23...	1640	777	40	E45	<.2	<.3	3.3	4	<10	<2
JUN										
02...	--	--	--	--	--	--	--	--	--	--
JUL										
30...	1720	1590	185	191	<.2	<.3	<24.0	E1	<10	<2
SEP										
01...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--

DATE	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	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)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
22...	--	--	--	--	--	--	--	--	666	97
NOV										
30...	--	--	--	--	--	--	--	--	745	99
JAN										
31...	--	--	--	--	--	--	--	--	454	38
FEB										
28...	--	--	--	--	--	--	--	--	777	97
APR										
03...	--	--	--	--	--	--	--	--	546	93
MAY										
01...	--	--	--	--	--	--	--	--	519	99
23...	19100	10200	<320	<248	<.04	<.03	<.05	<.03	543	99
JUN										
02...	--	--	--	--	--	--	--	--	428	99
JUL										
30...	20800	19000	<500	<310	<.04	<.03	<.05	<.03	500	99
SEP										
01...	--	--	--	--	--	--	--	--	959	97
21...	--	--	--	--	--	--	--	--	959	97

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 7,8585.04 ft above sea level, (levels by U.S. Bureau of Reclamation).

REMARKS.--Records good except periods of flow above 65 ft^3/s which are fair, and estimated daily discharges, 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	17	e12	e8.5	12	17	21	43	27	23	13	17
2	26	16	13	e8.0	e10	16	21	43	21	22	12	14
3	26	15	13	e7.5	e9.0	e16	21	42	21	22	13	13
4	25	15	e12	e7.0	e10	23	21	44	21	21	14	12
5	24	15	e12	e7.5	e11	32	22	43	23	18	12	11
6	24	15	e12	e7.0	e12	23	22	43	23	17	11	11
7	27	15	e12	e7.0	e11	20	22	43	22	17	10	11
8	26	15	e12	e7.5	e12	e18	21	43	22	17	9.4	12
9	24	15	e12	e8.0	14	18	21	43	23	16	8.5	17
10	23	14	e12	e8.5	13	16	21	43	22	16	8.2	12
11	23	14	12	e8.5	12	e16	21	43	22	16	8.3	10
12	22	14	e12	e8.5	e11	e17	21	42	22	15	8.9	9.3
13	21	14	e12	e9.0	e10	18	21	43	22	14	14	8.7
14	20	13	e11	e9.0	13	22	21	43	22	11	35	8.5
15	21	13	e10	e9.0	12	25	21	43	22	13	21	8.2
16	20	13	12	e9.0	e12	22	21	42	21	14	18	7.8
17	20	13	13	9.1	12	23	21	41	21	31	22	7.8
18	20	13	e12	9.9	12	23	21	41	21	19	23	7.8
19	20	12	13	11	e12	e20	21	42	21	16	23	8.1
20	19	13	e12	12	e12	23	21	42	21	15	22	7.8
21	19	13	e9.0	11	12	22	21	43	21	13	21	8.1
22	19	13	e9.0	11	13	e21	21	46	21	13	21	14
23	20	12	e9.0	e11	12	22	21	48	20	12	20	11
24	19	11	e10	e11	14	24	21	45	20	12	20	16
25	18	e11	e11	11	e13	23	20	42	21	12	19	12
26	18	e12	e10	11	e12	22	21	42	22	14	19	11
27	19	e12	e9.0	12	e14	22	21	42	23	20	16	10
28	19	13	e10	e10	18	22	20	41	23	19	17	9.7
29	19	13	e9.0	e9.0	16	21	21	42	23	15	15	9.6
30	18	e12	e9.0	e8.0	---	21	30	41	23	18	18	9.4
31	18	---	8.9	e9.0	---	21	---	41	---	14	20	---
TOTAL	664	406	344.9	285.5	356.0	649	640	1325	657	515	512.3	324.8
MEAN	21.4	13.5	11.1	9.21	12.3	20.9	21.3	42.7	21.9	16.6	16.5	10.8
MAX	27	17	13	12	18	32	30	48	27	31	35	17
MIN	18	11	8.9	7.0	9.0	16	20	41	20	11	8.2	7.8
AC-FT	1320	805	684	566	706	1290	1270	2630	1300	1020	1020	644

WTR YR 2000 TOTAL 6679.5 MEAN 18.2 MAX 48 MIN 7.0 AC-FT 13250

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 U.S. 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 estimated daily discharges, which are poor. Flow controlled by diversion dam upstream.

COOPERATION.--Record collected by U.S. Bureau of Reclamation, computed by Colorado Division of Water Resources.

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	55	42	33	30	27	30	40	91	72	49	25	35
2	54	41	33	29	29	30	40	91	58	44	27	33
3	53	39	33	e26	29	30	40	91	58	39	28	32
4	53	37	32	e20	29	33	41	91	57	37	28	32
5	52	37	e30	e22	28	37	41	91	58	38	27	30
6	51	37	e30	e20	28	33	41	90	57	36	26	30
7	54	38	e30	e20	28	34	40	90	57	33	28	30
8	52	38	e30	e22	28	32	40	90	56	31	30	36
9	51	37	30	e22	28	31	41	90	57	31	28	50
10	50	36	34	e22	28	31	41	91	57	30	27	35
11	49	36	e30	e24	28	29	41	92	56	31	28	33
12	47	36	e28	e24	28	31	41	91	56	34	29	32
13	47	36	e26	e24	28	33	41	91	57	39	34	30
14	47	36	e24	e24	28	36	41	91	57	53	40	30
15	46	36	e20	e24	29	37	41	91	58	54	33	29
16	46	36	e24	e26	28	37	40	91	58	52	28	28
17	45	36	e26	e28	29	38	41	93	58	47	28	28
18	46	34	e28	28	28	39	41	90	58	40	32	28
19	45	30	e28	30	27	37	41	91	58	35	40	28
20	45	32	e26	27	27	39	40	91	58	29	33	27
21	45	34	e26	26	28	38	41	92	57	26	37	27
22	45	35	e24	26	29	38	41	96	47	26	45	32
23	44	33	e26	26	28	38	41	117	49	28	40	30
24	44	28	e28	26	29	41	41	111	48	29	41	33
25	44	e26	e32	28	26	49	41	92	47	28	39	31
26	44	e28	e30	30	e24	55	41	91	45	31	38	29
27	44	31	e28	29	e26	50	42	92	56	35	35	29
28	43	33	e30	27	30	41	42	94	61	36	34	25
29	44	33	e30	e24	30	41	42	92	61	32	33	21
30	41	33	e28	e18	---	41	68	93	54	31	39	21
31	42	---	27	24	---	41	---	93	---	28	39	---
TOTAL	1468	1044	884	776	812	1150	1253	2881	1686	1112	1019	914
MEAN	47.4	34.8	28.5	25.0	28.0	37.1	41.8	92.9	56.2	35.9	32.9	30.5
MAX	55	42	34	30	30	55	68	117	72	54	45	50
MIN	41	26	20	18	24	29	40	90	45	26	25	21
AC-FT	2910	2070	1750	1540	1610	2280	2490	5710	3340	2210	2020	1810

WTR YR 2000 TOTAL 14999 MEAN 41.0 MAX 117 MIN 18 AC-FT 29750

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 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 U.S. Bureau of Reclamation).

REMARKS.--Records fair except for estimated daily discharges, which are poor.

COOPERATION.--Records collected and computed by U.S. Bureau of Reclamation.

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	3.0	2.0	1.2	e.90	e.90	e1.0	6.1	24	5.8	2.0	.88	.62
2	2.9	1.7	1.2	e.90	e.95	e1.1	6.1	25	5.4	1.7	.84	.53
3	2.9	1.7	1.1	e.85	e.95	e1.2	6.7	28	5.0	1.6	.59	.52
4	2.8	1.8	e1.0	e.80	e.95	e1.5	8.3	30	4.8	1.5	.58	.52
5	2.8	1.8	e.90	e.80	e.95	e2.0	11	28	4.5	1.3	.62	.52
6	2.9	1.8	e.90	e.80	e.95	e2.0	9.9	26	4.3	1.2	.64	.52
7	3.0	1.8	e.90	e.80	e.95	e2.5	7.0	24	4.0	1.2	.65	.52
8	2.9	1.9	e.90	e.80	e.95	e2.5	7.9	23	3.8	1.2	.67	.78
9	2.6	1.4	e.90	e.80	e.95	e2.5	8.9	20	4.6	1.2	.64	1.6
10	2.6	1.5	e.95	e.80	e.95	e2.5	6.8	19	3.8	1.2	.62	.84
11	2.6	1.5	e.90	e.80	e.95	e2.5	5.4	19	3.3	1.0	.94	.68
12	2.5	1.5	e.90	e.80	e.95	e2.5	5.7	16	3.0	1.0	.96	.60
13	2.5	1.5	e.90	e.80	e.95	e3.0	5.5	14	2.8	1.1	.99	.60
14	2.3	1.5	e.90	e.80	e.95	4.0	5.5	13	2.6	1.4	1.6	.52
15	2.2	1.4	e.90	e.80	e1.0	4.1	5.3	13	2.4	2.8	.87	.49
16	2.2	1.5	e.90	e.80	e1.0	4.1	5.7	12	2.3	1.7	.82	.48
17	2.2	1.6	e.90	e.85	e1.0	4.0	7.4	12	2.2	1.5	.85	.46
18	2.3	.94	e.90	e.90	e1.0	3.4	5.5	12	2.1	1.4	.87	.52
19	2.3	e.90	e.90	e.90	e1.0	3.3	5.3	12	3.2	1.1	1.4	.61
20	2.3	e1.2	e.90	e.90	e1.0	3.1	5.6	12	2.5	1.0	.85	.57
21	2.3	e1.2	e.90	e.90	e1.0	2.8	5.5	10	2.0	.97	.94	.60
22	2.3	e1.1	e.90	e.90	e1.0	2.7	5.5	9.3	1.9	.90	1.3	.69
23	2.3	e1.0	e.90	e.90	e1.0	2.4	5.7	9.8	1.9	.89	1.0	.78
24	2.1	e1.0	e.90	e.90	e1.0	3.3	5.6	9.9	1.9	.95	.85	.78
25	2.1	e.95	e.90	e.90	e1.0	4.4	5.6	9.5	1.9	.92	.82	.78
26	2.1	e1.0	e.90	e.90	e.95	5.7	5.6	8.9	1.8	.90	.68	.78
27	2.1	e1.0	e.90	e.90	e1.0	7.5	5.6	8.2	3.0	.96	.63	.78
28	2.1	e1.1	e.90	e.90	e1.0	8.7	5.5	7.7	2.4	.88	.64	.78
29	2.1	e1.1	e.90	e.85	e1.0	7.6	5.5	7.3	2.0	.95	.64	.78
30	1.7	e1.1	e.90	e.80	---	7.4	16	6.8	2.1	1.1	.67	.78
31	2.2	---	e.90	e.85	---	6.5	---	6.3	---	1.1	.68	---
TOTAL	75.2	41.49	28.85	26.30	28.20	111.8	201.7	475.7	93.3	38.62	25.73	20.03
MEAN	2.43	1.38	.93	.85	.97	3.61	6.72	15.3	3.11	1.25	.83	.67
MAX	3.0	2.0	1.2	.90	1.0	8.7	16	30	5.8	2.8	1.6	1.6
MIN	1.7	.90	.90	.80	.90	1.0	5.3	6.3	1.8	.88	.58	.46
AC-FT	149	82	57	52	56	222	400	944	185	77	51	40

WTR YR 2000 TOTAL 1166.92 MEAN 3.19 MAX 30 MIN .46 AC-FT 2310

e Estimated

09346400 SAN JUAN RIVER NEAR CARRACAS, CO

LOCATION.--Lat 37°00'49", long 107°18'42", in SE$^1/_4$SW$^1/_4$ sec.17, T.32 N., R.4 W., Archuleta County, Hydrologic Unit 14080101, on right bank five feet 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. Highwater diversions upstream from station into Rio Grande basin through Azotea tunnel (station 08284160) began in March 1971. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	321	148	130	e140	e140	154	588	884	725	164	59	114
2	300	145	129	e140	e130	152	602	818	620	154	51	96
3	290	140	121	e130	e130	145	580	956	587	144	47	86
4	277	138	116	e130	e140	145	515	1130	512	124	49	84
5	261	137	125	e120	e150	180	519	1310	457	111	46	78
6	250	138	108	e130	e150	198	596	1350	439	102	43	72
7	257	137	e120	e140	e150	182	600	1210	403	97	40	69
8	268	135	e120	e140	158	181	639	1250	361	91	40	70
9	246	135	e130	e140	156	154	620	1130	354	95	43	99
10	230	133	e130	e140	163	142	695	991	374	84	44	119
11	219	128	e140	e140	159	128	673	1090	321	75	46	87
12	212	127	e130	e140	144	127	592	1040	288	76	48	63
13	208	126	e120	e140	144	146	615	889	257	77	55	63
14	203	123	e120	e140	139	155	711	756	242	100	105	61
15	192	122	e130	e130	144	174	711	729	221	159	121	59
16	194	120	e130	e130	156	177	616	736	205	152	104	53
17	183	118	e130	e130	159	172	581	669	187	147	106	51
18	174	121	e140	e140	148	176	663	593	175	151	102	48
19	179	115	e140	e140	142	166	657	548	178	118	156	48
20	176	98	e140	e140	134	174	558	538	190	87	176	53
21	175	111	e130	e140	140	225	605	553	164	70	139	56
22	172	122	e120	e140	157	242	685	673	149	65	130	55
23	164	126	e120	e130	150	318	626	959	144	59	144	80
24	160	110	e120	e130	153	276	633	1170	140	58	113	100
25	157	112	e120	e130	147	281	731	1070	141	61	129	119
26	155	100	e120	e140	141	288	789	1060	137	58	119	100
27	156	122	e130	e140	127	307	935	879	143	55	108	92
28	155	142	e130	e140	154	344	1060	896	166	70	97	86
29	155	134	e140	e130	159	350	1050	956	157	65	96	82
30	154	130	e140	e110	---	371	926	967	177	65	101	72
31	141	---	e140	e120	---	479	---	849	---	72	111	---
TOTAL	6384	3793	3959	4170	4264	6709	20371	28649	8614	3006	2768	2315
MEAN	206	126	128	135	147	216	679	924	287	97.0	89.3	77.2
MAX	321	148	140	140	163	479	1060	1350	725	164	176	119
MIN	141	98	108	110	127	127	515	538	137	55	40	48
AC-FT	12660	7520	7850	8270	8460	13310	40410	56830	17090	5960	5490	4590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2000, BY WATER YEAR (WY)

MEAN	313	250	178	161	198	603	1074	1735	1801	656	346	298
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1971 - 2000	
ANNUAL TOTAL	229687		95002			
ANNUAL MEAN	629		260		[a]635	
HIGHEST ANNUAL MEAN					[b]1191	1985
LOWEST ANNUAL MEAN					[b]200	1977
HIGHEST DAILY MEAN	2230	Jun 1	1350	May 6	[b]6700	Mar 12 1985
LOWEST DAILY MEAN	98	Nov 20	40	Aug 7	[c]28	Sep 14 1974
ANNUAL SEVEN-DAY MINIMUM	111	Nov 20	43	Aug 5	39	Sep 14 1978
INSTANTANEOUS PEAK FLOW			1560	May 6	[d]8590	Mar 6 1995
INSTANTANEOUS PEAK STAGE			4.05	May 6	[f]8.10	Mar 6 1995
ANNUAL RUNOFF (AC-FT)	455600		188400		460200	
10 PERCENT EXCEEDS	1600		677		1700	
50 PERCENT EXCEEDS	420		140		287	
90 PERCENT EXCEEDS	130		71		113	

e Estimated.
a Average discharge for 9 years (water years 1962-70), 632 ft^3/s; 457900 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, 9730 ft^3/s, Sep 6, 1970, gage height, 8.34 ft, from rating curve extended above 6000 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 benchmark.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of about 2,800 acres upstream from station. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	263	112	90	e46	65	74	331	964	582	81	43	91
2	250	110	92	e48	61	76	433	935	518	79	39	80
3	239	107	88	e50	61	82	467	1120	465	75	39	75
4	229	106	82	e50	62	88	573	1250	407	70	41	69
5	221	106	e60	e50	62	108	728	1370	364	64	44	64
6	193	104	e58	e50	62	98	774	1350	341	59	41	64
7	185	103	e56	e50	60	95	751	1190	300	55	39	64
8	179	103	e54	e50	60	91	817	1240	276	58	36	65
9	169	103	e54	e50	63	88	759	1090	267	62	31	69
10	164	102	e52	e50	67	83	846	966	277	55	31	72
11	158	98	e52	e49	70	75	796	1060	230	53	31	61
12	150	97	e52	e49	70	80	692	984	199	49	32	56
13	143	96	e56	e49	66	84	778	812	175	49	39	53
14	142	94	e56	e50	65	92	884	692	161	65	43	49
15	142	93	62	e50	64	122	868	646	150	115	47	47
16	140	92	e58	e52	65	121	773	649	135	90	58	46
17	139	91	e58	e52	68	129	750	629	121	99	65	45
18	136	92	e56	e54	68	147	855	541	114	93	78	42
19	136	87	e54	e56	63	121	819	488	118	75	143	45
20	134	77	e52	63	62	131	694	466	120	65	129	47
21	130	85	e52	63	65	137	794	499	107	59	105	44
22	127	89	e55	62	75	138	859	604	99	54	103	45
23	124	81	e50	60	81	169	780	791	98	51	102	53
24	123	61	e48	59	81	197	848	969	96	47	85	70
25	122	e60	e50	61	77	273	943	882	92	46	90	74
26	120	66	e50	67	66	407	1020	825	85	52	108	69
27	118	80	e50	68	66	387	1220	678	85	52	103	53
28	117	89	e50	65	74	415	1360	692	81	54	87	53
29	116	90	e52	59	73	316	1300	730	79	50	79	51
30	115	88	e50	55	---	317	1140	750	84	48	76	54
31	109	---	e50	66	---	347	---	669	---	48	97	---
TOTAL	4833	2762	1799	1703	1942	5088	24652	26531	6226	1972	2084	1770
MEAN	156	92.1	58.0	54.9	67.0	164	822	856	208	63.6	67.2	59.0
MAX	263	112	92	68	81	415	1360	1370	582	115	143	91
MIN	109	60	48	46	60	74	331	466	79	46	31	42
AC-FT	9590	5480	3570	3380	3850	10090	48900	52620	12350	3910	4130	3510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2000, BY WATER YEAR (WY)

MEAN	179	130	91.9	76.1	94.3	327	878	1299	1049	349	231	219
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1963 - 2000	
ANNUAL TOTAL	173887		81362			
ANNUAL MEAN	476		222		411	
HIGHEST ANNUAL MEAN					822	1979
LOWEST ANNUAL MEAN					94.0	1977
HIGHEST DAILY MEAN	2050	Aug 6	1370	May 5	5360	Sep 6 1970
LOWEST DAILY MEAN	e48	Dec 24	31	Aug 9	19	Nov 29 1989
ANNUAL SEVEN-DAY MINIMUM	50	Dec 23	34	Aug 7	26	Dec 11 1989
INSTANTANEOUS PEAK FLOW			1510	May 5	[a]8370	Sep 6 1970
INSTANTANEOUS PEAK STAGE			3.32	May 5	[b]6.38	Sep 6 1970
ANNUAL RUNOFF (AC-FT)	344900		161400		297700	
10 PERCENT EXCEEDS	1170		773		1200	
50 PERCENT EXCEEDS	319		85		152	
90 PERCENT EXCEEDS	71		50		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, (revised).

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733. Water-quality data available, July 1969 to August 1973, January 1988 to September 1991.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,127.21 ft above sea level (revised).

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. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood on Oct. 5, 1911 has not yet been exceeded.

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	316	117	45	e34	45	40	222	196	126	176	136	129
2	303	95	44	e34	50	45	306	152	130	151	137	133
3	303	88	e42	e32	66	44	220	89	133	156	141	114
4	297	76	e37	e30	62	42	164	120	136	137	138	107
5	288	58	e34	e34	62	48	157	95	133	135	122	121
6	285	52	e33	e35	54	58	166	83	128	124	113	111
7	256	49	e34	e35	44	79	172	94	133	131	112	113
8	250	48	e35	e36	43	90	178	85	132	138	112	124
9	244	46	e33	e35	44	81	175	91	149	152	116	141
10	264	43	e38	e34	47	68	183	100	136	143	130	111
11	269	42	e39	e35	e43	55	178	95	131	137	125	104
12	271	40	e34	e34	45	51	171	91	133	128	139	97
13	269	38	e33	e33	e45	52	166	94	126	139	157	103
14	247	37	e33	e32	e45	50	169	95	122	130	137	98
15	255	38	e33	e32	45	52	177	99	119	123	122	99
16	266	38	e34	e32	e46	49	177	99	115	124	128	106
17	286	38	e35	e33	e45	46	166	116	115	131	146	106
18	314	34	e37	e34	e43	47	163	135	118	123	168	112
19	227	32	e36	e34	e42	45	162	142	138	120	362	113
20	149	e32	e34	e33	e45	54	148	144	127	120	189	103
21	171	e29	e33	e33	47	95	143	144	117	114	188	94
22	169	e31	e31	e32	e48	141	144	143	113	114	201	112
23	162	e33	e31	e30	e48	256	140	143	129	112	167	103
24	166	e34	e33	e34	49	219	136	135	134	116	173	108
25	213	e34	e34	e38	48	179	103	130	139	121	162	103
26	167	e38	e34	e50	42	162	68	124	134	134	126	85
27	130	45	e32	92	45	143	56	133	163	136	108	68
28	118	44	e30	72	44	137	136	126	187	127	140	59
29	121	44	e30	e47	41	125	243	128	160	124	118	66
30	115	43	e32	e44	---	119	224	120	177	140	157	56
31	117	---	e35	e43	---	139	---	117	---	149	137	---
TOTAL	7008	1416	1078	1186	1373	2811	5013	3658	4033	4105	4607	3099
MEAN	226	47.2	34.8	38.3	47.3	90.7	167	118	134	132	149	103
MAX	316	117	45	92	66	256	306	196	187	176	362	141
MIN	115	29	30	30	41	40	56	83	113	112	108	56
AC-FT	13900	2810	2140	2350	2720	5580	9940	7260	8000	8140	9140	6150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)

MEAN	199	137	104	75.5	97.8	219	344	433	512	305	242	218
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1951 - 2000	
ANNUAL TOTAL	135421		39387			
ANNUAL MEAN	371		108		244	
HIGHEST ANNUAL MEAN					582	1973
LOWEST ANNUAL MEAN					77.4	1959
HIGHEST DAILY MEAN	2070	Aug 6	362	Aug 19	4560	Jul 27 1957
LOWEST DAILY MEAN	e29	Nov 21	e29	Nov 21	6.1	May 1 1977
ANNUAL SEVEN-DAY MINIMUM	32	Dec 23	32	Dec 23	8.3	Apr 30 1977
INSTANTANEOUS PEAK FLOW			623	Aug 19	[a]6400	Jul 27 1957
INSTANTANEOUS PEAK STAGE			5.09	Aug 19	[b]8.95	Jul 27 1957
ANNUAL RUNOFF (AC-FT)	268600		78120		176900	
10 PERCENT EXCEEDS	1090		178		551	
50 PERCENT EXCEEDS	136		112		134	
90 PERCENT EXCEEDS	38		34		50	

e Estimated.
a From rating curve extended above 5100 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$^1/_4$SW$^1/_4$ 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).

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 and those discharges greater than 100 ft^3/s, 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. Several measurements of specific conductance and water temperature were obtained and are published in the "Supplemental Water-Quality Data For Gaging Stations" section of this report.

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	46	8.8	e3.2	e2.1	e2.8	1.3	40	31	38	54	56	32
2	48	8.4	e3.2	e2.1	e2.8	1.3	29	18	43	52	57	32
3	50	e8.0	e3.1	e2.1	e3.0	1.2	18	16	44	47	55	33
4	54	e7.5	e2.9	e2.1	e2.8	1.1	15	16	46	46	57	35
5	54	e7.0	e2.6	e2.1	e2.7	1.3	13	15	44	46	56	38
6	57	e5.8	e2.4	e2.1	e2.6	1.3	9.8	17	41	47	52	38
7	54	e6.0	e2.4	e2.1	e2.5	2.2	7.4	16	41	51	52	39
8	53	e5.6	e2.4	e2.2	e2.4	5.1	6.4	20	42	49	54	42
9	47	e5.3	e2.3	e2.2	e2.5	2.0	e6.0	27	47	57	56	52
10	55	5.5	e2.3	e2.3	e2.6	1.4	e5.5	27	46	56	49	44
11	57	5.3	e2.3	e2.5	e2.6	1.3	4.9	23	50	56	49	39
12	54	e5.2	e2.2	e2.8	2.4	1.3	4.7	23	50	50	57	38
13	51	e5.0	e2.2	e2.8	2.6	1.3	4.1	24	38	56	61	38
14	51	e5.2	e2.1	e3.0	2.2	1.3	4.5	27	34	56	54	39
15	50	e5.4	e2.1	e3.0	2.5	1.3	5.1	32	37	55	45	46
16	51	e5.6	e2.0	e3.0	2.3	1.3	5.0	27	38	59	43	50
17	53	e5.8	e2.0	e3.3	1.9	1.2	4.5	29	38	61	48	46
18	55	6.0	e2.0	e3.8	1.9	1.2	4.6	32	37	56	72	49
19	54	5.7	e2.0	e3.3	1.5	1.2	4.5	40	46	54	217	49
20	51	e5.6	e2.0	e2.9	1.3	1.4	4.7	42	43	51	68	48
21	48	e5.6	e1.9	e2.9	1.4	5.8	4.4	39	36	48	126	50
22	41	e5.2	e2.0	e2.8	1.4	25	4.5	36	38	47	174	56
23	42	e4.2	e2.0	e2.7	1.3	23	4.2	37	45	48	50	53
24	40	e3.2	e2.0	e2.6	1.3	7.4	3.7	39	49	49	48	55
25	49	e3.5	e2.0	e3.3	1.2	2.5	3.4	40	51	55	44	51
26	28	e3.8	e2.1	e5.7	1.5	1.6	31	38	50	63	44	51
27	13	e3.5	e2.3	e4.2	1.3	1.0	9.5	39	56	59	42	53
28	11	e3.3	e2.3	e3.2	1.3	.96	10	41	57	52	48	55
29	10	e3.1	e2.3	e2.9	1.2	.91	15	43	56	56	54	44
30	9.7	e3.0	e2.3	e3.1	---	.87	12	40	55	63	113	34
31	9.4	---	e2.1	e3.1	---	1.7	---	40	---	57	46	---
TOTAL	1346.1	161.1	71.0	88.3	59.8	101.74	294.4	934	1336	1656	2047	1329
MEAN	43.4	5.37	2.29	2.85	2.06	3.28	9.81	30.1	44.5	53.4	66.0	44.3
MAX	57	8.8	3.2	5.7	3.0	25	40	43	57	63	217	56
MIN	9.4	3.0	1.9	2.1	1.2	.87	3.4	15	34	46	42	32
AC-FT	2670	320	141	175	119	202	584	1850	2650	3280	4060	2640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)

MEAN	35.2	10.7	5.47	4.76	9.84	18.3	13.3	39.1	57.7	67.8	66.4	58.6
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1951 - 2000	
ANNUAL TOTAL	10719.0		9424.44			
ANNUAL MEAN	29.4		25.7		32.7	
HIGHEST ANNUAL MEAN					47.7	1987
LOWEST ANNUAL MEAN					15.6	1977
HIGHEST DAILY MEAN	255	Aug 3	217	Aug 19	918	Mar 6 1995
LOWEST DAILY MEAN	1.4	Apr 16	.87	Mar 30	.87	Mar 30 2000
ANNUAL SEVEN-DAY MINIMUM	1.4	Apr 15	1.2	Feb 27	1.0	Dec 7 1959
INSTANTANEOUS PEAK FLOW			550	Aug 21	[a]1980	Sep 6 1970
INSTANTANEOUS PEAK STAGE			3.56	Aug 21	[b]4.62	Sep 6 1970
ANNUAL RUNOFF (AC-FT)	21260		18690		23660	
10 PERCENT EXCEEDS	80		55		71	
50 PERCENT EXCEEDS	10		16		23	
90 PERCENT EXCEEDS	2.3		1.9		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$^1/_4$SE$^1/_4$ 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 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, 1,582,700 acre-ft, May 30, elevation, 6,077.16 ft; minimum contents, 1,356,600 acre-ft, Sept. 30, elevation, 6,060.69 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 1999 TO SEPTEMBER 2000
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1556900	1543500	1523300	1500100	1480700	1464200	1468300	1528300	1576800	1497800	1445900	1396100
2	1556100	1542900	1522600	1499600	1480100	1463600	1468700	1530000	1571000	1496800	1443300	1396100
3	1557300	1542500	1522000	1498800	1479600	1463100	1470100	1532600	1565100	1495700	1440700	1396100
4	1556900	1541900	1521600	1498000	1478900	1462800	1471600	1535700	1558800	1494700	1438300	1396100
5	1556700	1541500	1520800	1497100	1478300	1462200	1473200	1539200	1551500	1493300	1436100	1396400
6	1555700	1540700	1519900	1496300	1477600	1461800	1475000	1543200	1545600	1491700	1434300	1394300
7	1554400	1540200	1519400	1495400	1477100	1461400	1476300	1546300	1538200	1490000	1431700	1392700
8	1554100	1539600	1518400	1494700	1476500	1461500	1477100	1549500	1533200	1488200	1429300	1391500
9	1553500	1539000	1517700	1493900	1476000	1461000	1477800	1552400	1530300	1486400	1426900	1390100
10	1553100	1538900	1516800	1493500	1475400	1460500	1478600	1554400	1527700	1485100	1424300	1389400
11	1552200	1538000	1516000	1492900	1474900	1460000	1484300	1556300	1524900	1483300	1422300	1387700
12	1550900	1537200	1515400	1492100	1474100	1459500	1485500	1558200	1522600	1481400	1420200	1386000
13	1550100	1536400	1514400	1491500	1473800	1459500	1487900	1560500	1520900	1479400	1418300	1384500
14	1549400	1536000	1513700	1491000	1473500	1459200	1490600	1561900	1519800	1478100	1416500	1383000
15	1548800	1535200	1512900	1490300	1472700	1458700	1491800	1563100	1518400	1476700	1414300	1381300
16	1547900	1534300	1512000	1489600	1472100	1458400	1493100	1564000	1517000	1475400	1411900	1380000
17	1547600	1533400	1511200	1489000	1471600	1458000	1499800	1564600	1515300	1474300	1410000	1378700
18	1547300	1532600	1510200	1488500	1471200	1457900	1501300	1565400	1513800	1472800	1409000	1377400
19	1547200	1531600	1509500	1487900	1470600	1457600	1502900	1566000	1512400	1471200	1407700	1375500
20	1546900	1530700	1508800	1487400	1470200	1459000	1503700	1566300	1511200	1469400	1406400	1373600
21	1546600	1529900	1508100	1486500	1469400	1458100	1505100	1567200	1509900	1467600	1404800	1371800
22	1546500	1529300	1507200	1486000	1468700	1458500	1506200	1568100	1508200	1465500	1403700	1369600
23	1546600	1528700	1506500	1485400	1468100	1459500	1508200	1569800	1506800	1463500	1402200	1367600
24	1546500	1527900	1505800	1484700	1467600	1459100	1509900	1572400	1505700	1461500	1400300	1366100
25	1546100	1527300	1505000	1484400	1467000	1459500	1511300	1574500	1504500	1459600	1399000	1364800
26	1546100	1526600	1504300	1484300	1466300	1460000	1513000	1576500	1503100	1458000	1397400	1363300
27	1545800	1525900	1503600	1483900	1465800	1460300	1515700	1577700	1502000	1455800	1396100	1361800
28	1545200	1525500	1502700	1483300	1465100	1460700	1519200	1579400	1500900	1453800	1396100	1359900
29	1544800	1525000	1502200	1482900	1464700	1462200	1522600	1581500	1499800	1451700	1396100	1358000
30	1544200	1524300	1501600	1481900	---	1463100	1525700	1582700	1498700	1449500	1396100	1356600
31	1543900	---	1500900	1481200	---	1465400	---	1580900	---	1448000	1396100	---
MAX	1557300	1543500	1523300	1500100	1480700	1465400	1525700	1582700	1576800	1497800	1445900	1396400
MIN	1543900	1524300	1500900	1481200	1464700	1457600	1468300	1528300	1498700	1448000	1396100	1356600
(+)	6074.49	6073.12	6071.46	6070.05	6068.85	6068.90	6073.22	6077.04	6071.30	6067.63	6063.74	6060.69
(++)	-14600	-19600	-23400	-19700	-16500	+700	+60300	+55200	-82200	-50700	-51900	-39500

CAL YR 1999 MAX 1667700 MIN 1375500 (++) +88800
WTR YR 2000 MAX 1582700 MIN 1356600 (++) -201900

(+) 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 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	893	513	489	502	495	501	535	504	3040	502	772	736
2	890	513	490	501	494	501	530	500	3860	500	920	731
3	896	512	490	499	494	501	521	481	4000	499	902	732
4	927	515	490	498	497	504	486	470	3990	498	908	737
5	969	518	489	499	503	504	474	470	4410	498	909	743
6	970	518	491	500	502	503	476	468	4580	498	913	734
7	967	513	490	499	501	509	472	472	3560	527	902	674
8	967	515	490	501	504	505	472	468	2620	613	881	619
9	968	513	489	502	504	506	484	466	1920	615	889	611
10	972	513	489	501	505	508	489	466	1650	613	899	607
11	971	512	489	501	502	507	488	465	1650	610	908	607
12	973	508	489	501	498	508	495	462	1160	610	903	607
13	855	507	498	501	500	507	495	462	473	612	906	605
14	767	507	487	500	500	508	493	463	504	610	904	607
15	800	507	483	499	501	508	496	461	520	609	908	611
16	801	504	486	496	498	507	494	461	520	612	904	611
17	801	501	489	496	500	507	494	479	522	614	906	610
18	803	499	489	496	499	498	486	507	525	615	907	613
19	663	495	489	492	498	510	476	508	518	606	907	683
20	501	494	490	489	496	515	475	509	497	602	905	801
21	502	492	496	496	497	535	473	503	495	605	911	794
22	503	496	489	500	499	525	475	501	493	602	814	809
23	506	491	489	497	503	523	474	501	496	606	741	809
24	507	489	488	495	505	518	472	502	495	608	750	806
25	508	491	490	503	501	518	472	503	495	605	746	806
26	509	492	494	507	501	522	478	504	500	653	741	807
27	510	494	496	498	501	470	475	506	501	687	741	807
28	512	495	499	495	500	437	484	507	500	668	739	808
29	512	491	500	495	501	453	484	503	500	661	739	803
30	512	489	499	492	---	545	488	968	502	658	740	805
31	513	---	499	492	---	546	---	1990	---	660	737	---
TOTAL	22948	15097	15225	15443	14499	15709	14606	17030	45496	18476	26352	21333
MEAN	740	503	491	498	500	507	487	549	1517	596	850	711
MAX	973	518	500	507	505	546	535	1990	4580	687	920	809
MIN	501	489	483	489	494	437	472	461	473	498	737	605
AC-FT	45520	29940	30200	30630	28760	31160	28970	33780	90240	36650	52270	42310
(+)	3900	0	0	0	0	2100	10200	23400	34700	31000	26900	17400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2000, BY WATER YEAR (WY)

MEAN	860	880	992	1042	1046	1129	1377	1780	1877	1227	1006	961
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1963 - 2000	
ANNUAL TOTAL	448454		242214			
ANNUAL MEAN	1229		662		[a]1181	
HIGHEST ANNUAL MEAN					2686	1987
LOWEST ANNUAL MEAN					280	1963
HIGHEST DAILY MEAN	5100	Jun 3	4580	Jun 6	6420	Jun 21 1965
LOWEST DAILY MEAN	483	Dec 15	437	Mar 28	30	Mar 12 1964
ANNUAL SEVEN-DAY MINIMUM	488	Dec 14	463	May 10	108	Jan 10 1963
INSTANTANEOUS PEAK FLOW			4580	Jun 6	[b]18900	Jul 27 1957
INSTANTANEOUS PEAK STAGE					[c]11.00	Jul 27 1957
INSTANTANEOUS LOW FLOW					8.0	Feb 28 1963
ANNUAL RUNOFF (AC-FT)	889500		480400		855900	
10 PERCENT EXCEEDS	3940		904		2640	
50 PERCENT EXCEEDS	553		504		652	
90 PERCENT EXCEEDS	496		485		409	

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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC												
06...	1120	785	625	114	11.5	8.4	217	7.5	6.5	83	19	25.2
JAN												
18...	1320	495	625	115	11.4	8.5	214	17.5	7.0	55	--	16.7
APR												
03...	1415	513	625	108	10.2	8.5	222	16.0	9.0	83	14	25.2
JUL												
19...	1300	607	0	0	12.1	8.4	217	37.0	9.5	75	3	23.0

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
DEC												
06...	4.82	1.4	.5	10.0	74	64	78	0	1.9	.1	11.9	36.1
JAN												
18...	3.12	1.0	.4	6.7	72	67	82	0	2.0	.2	12.1	33.2
APR												
03...	4.79	1.5	.6	11.6	73	68	79	2	1.9	.1	11.1	35.8
JUL												
19...	4.29	1.3	.5	9.2	73	72	88	0	1.8	.2	10.8	31.3

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	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)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
DEC												
06...	<.20	.22	.07	--	.020	--	.050	<.010	.020	<.010	.030	--
JAN												
18...	--	--	--	54	--	<2	--	--	--	--	--	180
APR												
03...	<.20	<.20	.05	--	.030	--	.020	<.010	<.020	.020	<.020	--
JUL												
19...	<.20	<.20	.06	--	.010	--	<.020	<.010	<.020	<.010	<.020	--

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	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)
DEC												
06...	130	1	<1	E1.2	64	<1	E14	<1.0	<.8	<1	1	<10
JAN												
18...	115	2	<1	<2.0	41	<1	<16	<1.0	<.8	<1	1	<10
APR												
03...	133	<1	<1	<2.0	63	<1	E12	<1.0	<.8	<1	1	E10
JUL												
19...	125	1	<1	<2.0	64	<1	E11	<1.0	<.8	<1	1	<10

09355500 SAN JUAN RIVER NEAR ARCHULETA, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	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)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)
DEC											
06...	<1	4	<.3	<1	<1	E1.7	<3	<1	2	--	--
JAN											
18...	<1	3	<.3	<1	<1	<2.4	<3	<1	3	1	.1
APR											
03...	<1	6	<.3	<1	<1	<2.4	<3	<1	1	--	--
JUL											
19...	<1	1	<.3	<1	<1	<2.4	<3	<1	5	--	--

DATE	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC											
06...	--	--	--	--	--	--	--	--	<1	--	--
JAN											
18...	4.8	4.8	11	9800	8.3	140	.01	30	<1	--	--
APR											
03...	--	--	--	--	--	--	--	--	<1	--	--
JUL											
19...	--	--	--	--	--	--	--	--	<1	10	73

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 estimated daily discharges, which are poor. Diversions for irrigation of about 20,000 acres upstream from station. During water years 1944-49, Twin Rocks Canal diverted upstream from station for irrigation downstream. Slight regulation by Lemon Dam about 30 mi upstream on Florida River since November 1963 (capacity, 40,100 acre-ft).

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred in October 1911 at this location.

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	704	300	243	245	216	225	651	1710	2720	663	237	466
2	678	308	247	227	223	225	663	1770	2360	599	247	437
3	612	304	247	226	221	214	603	2240	2080	571	257	432
4	584	295	245	e251	225	215	609	2720	1970	545	251	401
5	586	289	231	e262	228	215	678	3130	1840	489	244	400
6	583	289	231	e281	206	240	822	3300	1670	490	214	387
7	573	276	251	e279	195	293	920	3110	1650	457	188	473
8	577	273	258	e257	209	278	988	3320	1620	438	181	505
9	579	279	251	e250	217	279	1000	3170	1700	413	185	521
10	509	279	246	e261	229	274	1120	2420	1640	421	182	490
11	476	271	258	e247	230	252	1150	2480	1400	410	184	415
12	494	271	233	e230	237	218	1050	2500	1320	382	200	379
13	485	267	215	e221	218	223	1090	2040	1240	370	248	348
14	448	255	221	236	204	234	1270	1670	1220	358	261	316
15	443	248	250	227	219	255	1280	1470	1170	381	247	298
16	438	251	e267	232	226	263	1090	1470	1140	375	267	276
17	402	249	e279	217	238	259	1010	1620	1030	402	291	251
18	386	253	e251	238	246	259	1200	1480	913	433	351	251
19	382	252	e263	247	233	234	1240	1280	890	383	645	297
20	385	236	e271	240	204	243	1090	1170	907	335	583	281
21	388	236	e279	236	197	351	1090	1240	849	303	445	267
22	396	243	e291	235	237	387	1180	1670	791	281	387	265
23	398	243	e258	202	246	442	1110	2500	747	252	397	327
24	379	227	e263	189	238	413	1160	3650	799	240	379	298
25	358	237	e251	229	250	398	1310	3820	747	248	365	295
26	353	234	e237	284	234	376	1450	2700	710	259	377	304
27	339	261	245	264	210	387	1780	2090	731	263	361	289
28	331	257	261	242	208	476	2260	2230	736	265	351	278
29	322	245	255	216	234	507	2320	3120	703	244	380	279
30	317	245	253	182	---	484	1970	3500	689	232	387	281
31	297	---	244	168	---	537	---	3160	---	251	478	---
TOTAL	14202	7873	7795	7321	6478	9656	35154	73750	37982	11753	9770	10507
MEAN	458	262	251	236	223	311	1172	2379	1266	379	315	350
MAX	704	308	291	284	250	537	2320	3820	2720	663	645	521
MIN	297	227	215	168	195	214	603	1170	689	232	181	251
AC-FT	28170	15620	15460	14520	12850	19150	69730	146300	75340	23310	19380	20840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2000, BY WATER YEAR (WY)

MEAN	473	345	271	247	261	429	1080	2524	3018	1271	645	541
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1934 - 2000	
ANNUAL TOTAL	442719		232241			
ANNUAL MEAN	1213		635		935	
HIGHEST ANNUAL MEAN					1713	1941
LOWEST ANNUAL MEAN					340	1977
HIGHEST DAILY MEAN	4830	Jun 18	3820	May 25	11800	Jun 19 1949
LOWEST DAILY MEAN	214	Mar 14	168	Jan 31	.00	Nov 1 1933
ANNUAL SEVEN-DAY MINIMUM	237	Nov 20	191	Aug 6	.00	Nov 1 1933
INSTANTANEOUS PEAK FLOW			4540	May 24	13100	Jun 19 1949
INSTANTANEOUS PEAK STAGE			8.20	May 24	11.45	Jun 19 1949
INSTANTANEOUS LOW FLOW			150	Jan 31	63	Jan 21 1935
ANNUAL RUNOFF (AC-FT)	878100		460700		677100	
10 PERCENT EXCEEDS	3110		1640		2430	
50 PERCENT EXCEEDS	523		304		413	
90 PERCENT EXCEEDS	248		225		210	

e Estimated

09364500 ANIMAS RIVER AT FARMINGTON, NM

LOCATION.--Lat 36°43'17", long 108°12'05", in SW$^1/_4$SW$^1/_4$ 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 estimated daily discharges, which are poor. Diversions for irrigation of about 30,000 acres upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood occurred Oct. 6, 1911, when a stage of about 16.5 ft was reached (datum in use Oct. 1938 to Nov. 1973). Flood of Sept. 6, 1909, reached a stage of 11.1 ft, 1904-5 site and datum (discharge, about 19,000 ft^3/s).

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	632	278	e260	e275	e231	236	621	1650	2820	395	42	311
2	582	268	e275	e270	e237	237	676	1610	2470	355	39	290
3	532	284	e265	e240	e230	238	640	1930	2180	321	37	269
4	502	287	e262	e260	e237	231	589	2410	2020	291	29	265
5	480	291	e260	e262	e245	245	605	2810	1910	311	21	242
6	458	292	e250	e290	e230	249	713	3070	1750	260	22	244
7	430	279	e265	e285	e215	301	832	2950	1600	209	21	251
8	430	264	e270	e260	e198	299	908	3000	1620	193	18	333
9	413	270	e268	e252	251	275	953	3150	1600	193	7.5	373
10	388	275	e262	e265	256	282	995	2430	1760	196	11	368
11	351	283	e278	e285	259	274	1100	2290	1360	196	32	326
12	341	e280	e264	e312	265	258	1020	2450	1210	187	118	278
13	341	e285	e255	e280	276	230	967	2130	1110	171	161	244
14	321	e270	e260	e260	245	229	1130	1740	1020	163	152	201
15	308	e265	e278	e265	238	242	1200	1510	992	156	122	168
16	316	e260	e288	e250	237	252	1070	1350	930	181	124	146
17	313	e270	e305	e245	234	255	923	1500	857	180	148	119
18	298	e272	e315	e230	247	260	1020	1510	721	186	158	86
19	299	e265	e290	e242	241	265	1170	1210	630	190	313	104
20	312	e258	e280	250	232	239	1020	1030	660	159	377	126
21	312	e250	e278	246	205	300	909	952	593	134	324	115
22	305	e260	e290	243	211	384	1030	1380	552	112	256	120
23	299	e265	e288	243	241	419	1030	2240	500	100	220	121
24	303	e270	e280	230	253	403	1010	3360	490	81	201	164
25	292	e260	e275	240	254	383	1160	3880	494	70	192	152
26	277	e268	e262	e308	254	371	1270	3040	450	79	191	157
27	270	e280	e268	e299	240	351	1510	2300	432	86	180	139
28	282	e288	e280	e283	220	420	1970	2200	449	78	179	131
29	282	e280	e282	e212	222	492	2150	2870	443	77	181	126
30	285	e265	e272	e189	---	483	1960	3430	430	61	262	128
31	290	---	e270	e177	---	554	---	3210	---	54	269	---
TOTAL	11244	8182	8495	7948	6904	9657	32151	70592	34053	5425	4407.5	6097
MEAN	363	273	274	256	238	312	1072	2277	1135	175	142	203
MAX	632	292	315	312	276	554	2150	3880	2820	395	377	373
MIN	270	250	250	177	198	229	589	952	430	54	7.5	86
AC-FT	22300	16230	16850	15760	13690	19150	63770	140000	67540	10760	8740	12090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2000, BY WATER YEAR (WY)

MEAN	436	355	297	276	299	455	990	2404	2987	1135	517	452
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1914 - 2000	
ANNUAL TOTAL	429973		205155.5			
ANNUAL MEAN	1178		561		884	
HIGHEST ANNUAL MEAN					1734	1920
LOWEST ANNUAL MEAN					239	1977
HIGHEST DAILY MEAN	4720	Jun 18	3880	May 25	11000	Jun 19 1949
LOWEST DAILY MEAN	218	Mar 13	7.5	Aug 9	.00	Aug 8 1996
ANNUAL SEVEN-DAY MINIMUM	229	Mar 8	18	Aug 4	.00	Aug 13 1996
INSTANTANEOUS PEAK FLOW			4130	May 24	[a]25000	Jun 29 1927
INSTANTANEOUS PEAK STAGE			7.60	May 24	9.32	Jun 18 1995
INSTANTANEOUS LOW FLOW			2.3	Aug 9	.00	Aug 8 1996
ANNUAL RUNOFF (AC-FT)	852900		406900		640700	
10 PERCENT EXCEEDS	3110		1540		2340	
50 PERCENT EXCEEDS	458		276		379	
90 PERCENT EXCEEDS	264		144		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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC												
06...	1400	347	631	100	11.7	8.0	719	6.5	1.0	300	120	94.8
JAN												
20...	0815	275	633	93	10.2	8.4	726	3.5	3.5	310	150	101
APR												
04...	1520	623	635	98	8.5	8.4	592	26.0	13.5	200	60	61.2
JUL												
20...	1405	157	632	126	8.4	8.4	630	37.0	26.0	260	120	83.7

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
DEC												
06...	14.7	2.6	.9	35.7	174	172	210	0	21.0	.4	9.2	190
JAN												
20...	14.5	3.2	.9	36.4	164	158	190	1	19.8	.5	10.4	185
APR												
04...	12.0	2.2	.9	27.9	153	143	174	0	13.3	.4	8.5	138
JUL												
20...	13.0	3.2	1	35.6	140	142	174	0	19.7	.4	6.2	168

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	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)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
DEC												
06...	<.20	.20	.08	99	.040	<2	.370	.010	<.020	<.010	<.020	120
JAN												
20...	<.20	.25	.11	--	.040	--	.370	.010	<.020	<.010	.030	--
APR												
04...	<.20	1.7	.12	--	.080	--	.260	.010	.020	.030	.570	--
JUL												
20...	<.20	<.20	.07	--	<.010	--	<.020	<.010	<.020	<.010	<.020	--

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	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)
DEC												
06...	473	4	<1	<2.0	78	<1	66	<1.0	<.8	<1	2	<10
JAN												
20...	468	3	<1	<2.0	81	<1	72	<1.0	<.8	<1	2	E10
APR												
04...	351	4	<1	<2.0	165	<1	35	<1.0	<.8	<1	2	<10
JUL												
20...	416	5	<1	E1.4	76	<1	75	<1.0	<.8	<1	2	<10

09364500 ANIMAS RIVER AT FARMINGTON, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	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)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)
DEC												
06...	<1	72	<.3	2	1	<2.4	<3	<1	10	2	.7	.6
JAN												
20...	<1	79	<.3	2	2	<2.4	<3	<1	12	--	--	--
APR												
04...	<1	15	<.3	2	<1	E1.3	3	<1	2	--	--	--
JUL												
20...	<1	9	<.3	2	<1	<2.4	<3	<1	2	--	--	--

DATE	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)
DEC												
06...	5.7	3	1700	28	120	.01	30	--	--	--	--	--
JAN												
20...	--	--	--	--	--	--	--	<.003	<.002	<.002	<.002	<.001
APR												
04...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
20...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)
DEC												
06...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
20...	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002	<.001	<.017	<.002
APR												
04...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
20...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
JAN											
20...	<.004	<.003	<.003	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004
APR											
04...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	--	--	--	--	--	--	--	--	--	--	--

DATE	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
JAN											
20...	<.003	<.006	<.004	<.004	<.004	<.005	<.002	E.003	<.003	<.007	<.004
APR											
04...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	--	--	--	--	--	--	--	--	--	--	--

09364500 ANIMAS RIVER AT FARMINGTON, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC											
06...	--	--	--	--	--	--	--	--	2	37	81
JAN											
20...	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	2	94	69
APR											
04...	--	--	--	--	--	--	--	--	2	1660	91
JUL											
20...	--	--	--	--	--	--	--	--	2	16	90

09365000 SAN JUAN RIVER AT FARMINGTON, NM

WATER-QUALITY RECORDS

LOCATION.--Lat 36°43'22", long 108°13'30", in NW$^1/_4$SE$^1/_4$ 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.--Water years 1962-82, Oct. 1999 to Sept. 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC												
08...	0815	1050	627	99	11.8	8.3	527	3.0	.2	200	72	62.2
JAN												
20...	1030	1090	635	94	10.2	8.4	567	5.0	4.0	220	100	71.5
APR												
05...	0800	1220	632	99	9.6	8.3	568	17.5	8.5	190	82	58.1
JUL												
21...	0745	669	634	103	8.1	8.1	412	24.0	18.0	140	45	45.1

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
DEC												
08...	10.4	2.1	1	33.7	131	126	141	6	12.5	[illegible]	10.4	132
JAN												
20...	10.8	1.8	1	36.6	122	119	144	1	13.6	.4	10.9	142
APR												
05...	11.0	2.1	1	41.7	127	108	132	0	10.3	.3	9.4	150
JUL												
21...	7.49	2.1	.9	24.5	100	98	120	0	9.0	.2	8.9	88.5

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	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)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
DEC												
08...	<.20	.27	.11	--	.070	--	.280	.010	.020	.030	.040	--
JAN												
20...	--	--	--	23	--	<2	--	--	--	--	--	100
APR												
05...	.26	1.5	.21	--	.140	--	.330	.020	.020	.050	.530	--
JUL												
21...	.21	.24	.11	--	.040	--	.120	<.010	.030	.010	.040	--

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	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)
DEC											
08...	340	2	<1	E1.2	70	<1	46	<1.0	<.8	<1	1
JAN											
20...	359	2	<1	<2.0	52	<1	34	<1.0	<.8	<1	2
APR											
05...	350	2	<1	<2.0	105	<1	37	<1.0	<.8	<1	2
JUL											
21...	245	4	<1	<2.0	73	<1	36	<1.0	<.8	<1	1

09365000 SAN JUAN RIVER AT FARMINGTON, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)
DEC											
08...	<10	<1	31	<.3	1	1	<2.4	<3	<1	5	--
JAN											
20...	<10	<1	26	<.3	<1	1	<2.4	<3	<1	6	<1
APR											
05...	<10	<1	6	<.3	2	<1	<2.4	E1	<1	2	--
JUL											
21...	<10	<1	5	<.3	1	<1	<2.4	<3	<1	2	--

DATE	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC											
08...	--	--	--	--	--	--	--	--	2	120	29
JAN											
20...	.3	3.1	3.8	11	7200	13	320	<.01	1	219	54
APR											
05...	--	--	--	--	--	--	--	--	2	1320	88
JUL											
21...	--	--	--	--	--	--	--	--	<1	52	53

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. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	7.8	11	e12	15	16	69	39	76	4.0	4.0	5.1
2	8.7	7.7	11	e10	15	16	69	45	62	6.3	3.9	5.0
3	8.6	7.7	11	e10	14	16	69	60	63	4.4	3.4	4.7
4	8.2	7.8	e10	e8.0	14	16	83	74	62	3.7	3.2	5.1
5	8.2	7.8	e9.0	e9.0	14	19	93	56	43	3.4	3.0	4.5
6	8.2	7.8	e10	e10	14	19	101	48	37	3.4	2.6	4.5
7	8.2	7.7	e10	e10	13	24	117	62	31	3.2	2.4	4.5
8	8.5	7.3	e10	e10	13	23	141	109	24	3.5	3.0	4.5
9	8.6	7.2	e9.0	e10	15	22	157	96	32	4.4	3.1	4.6
10	8.6	7.3	e10	e10	15	20	179	60	32	3.8	3.3	4.0
11	8.1	7.4	e10	e12	15	19	140	68	22	3.5	3.0	3.8
12	7.9	7.3	e9.0	e12	16	19	107	60	17	2.8	3.1	3.5
13	7.9	7.3	e10	e13	16	19	98	56	12	3.7	4.5	3.4
14	7.8	7.3	e10	e13	15	21	100	73	11	4.2	4.1	3.4
15	8.5	7.2	e8.0	e14	15	28	89	54	10	4.5	3.9	3.3
16	8.9	7.5	e10	14	15	26	67	36	10	4.0	3.8	3.3
17	9.0	7.8	e12	15	16	25	53	33	9.4	3.8	3.7	3.2
18	9.3	7.5	e11	15	16	24	54	36	11	2.8	3.5	3.4
19	9.5	7.0	e12	15	15	22	55	53	9.9	2.2	4.6	4.3
20	9.6	7.0	e12	15	15	25	48	42	10	1.9	4.4	4.1
21	9.5	7.3	e11	15	15	31	46	33	8.1	1.9	4.4	4.0
22	9.1	7.7	e11	15	15	34	47	39	7.4	1.7	4.1	4.1
23	8.7	e9.0	e12	15	16	40	43	57	7.1	2.0	3.9	4.4
24	8.5	e10	e12	14	15	60	40	84	8.5	2.9	3.8	4.6
25	7.7	e10	e12	15	15	58	40	83	8.7	4.8	3.7	4.7
26	7.5	e10	e14	18	15	51	53	52	7.7	4.0	3.9	4.7
27	7.5	e10	e12	17	15	51	77	86	6.8	3.0	3.8	4.6
28	7.3	11	e12	15	16	61	95	79	8.6	3.6	3.9	4.5
29	7.5	11	e12	e14	16	57	69	73	8.2	3.4	4.0	4.5
30	7.3	11	e12	e14	---	56	48	70	6.4	3.6	6.8	4.5
31	7.6	---	e12	14	---	69	---	74	---	4.4	6.8	---
TOTAL	259.6	246.4	337.0	403.0	434	987	2447	1890	661.8	108.8	119.6	126.8
MEAN	8.37	8.21	10.9	13.0	15.0	31.8	81.6	61.0	22.1	3.51	3.86	4.23
MAX	9.6	11	14	18	16	69	179	109	76	6.3	6.8	5.1
MIN	7.3	7.0	8.0	8.0	13	16	40	33	6.4	1.7	2.4	3.2
AC-FT	515	489	668	799	861	1960	4850	3750	1310	216	237	252

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2000, BY WATER YEAR (WY)

MEAN	13.7	12.1	12.3	12.0	17.1	37.5	106	109	67.0	20.2	12.3	11.4
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1921 - 2000	
ANNUAL TOTAL	9578.1		8021.0			
ANNUAL MEAN	26.2		21.9		35.8	
HIGHEST ANNUAL MEAN					109	1973
LOWEST ANNUAL MEAN					4.44	1977
HIGHEST DAILY MEAN	123	Aug 4	179	Apr 10	1120	May 4 1941
LOWEST DAILY MEAN	7.0	Nov 19	1.7	Jul 22	[a].00	Jul 3 1922
ANNUAL SEVEN-DAY MINIMUM	7.3	Nov 9	2.2	Jul 18	.00	Jul 3 1922
INSTANTANEOUS PEAK FLOW			203	Apr 10	[b]4750	Aug 24 1927
INSTANTANEOUS PEAK STAGE			[c]4.40	Apr 10	11.36	Aug 24 1927
ANNUAL RUNOFF (AC-FT)	19000		15910		25970	
10 PERCENT EXCEEDS	69		62		85	
50 PERCENT EXCEEDS	14		10		13	
90 PERCENT EXCEEDS	8.1		3.7		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, 6.35 ft, Jan 5, 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 estimated daily discharges, which are poor. Diversions for irrigation of about 24,000 acres upstream from station. Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred Sept. 5 or 6, 1909, and Oct. 5 or 6, 1911 and September 10, 1939.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2.7	e8.7	e13	e13	19	14	82	4.0	3.0	1.2	.13	.28
2	e2.6	e8.9	e13	e11	21	14	90	3.0	4.3	1.2	.34	.71
3	e2.9	e7.0	e13	e12	21	13	83	2.5	2.1	1.1	.11	1.0
4	e2.4	e7.8	e12	e10	22	11	84	6.8	1.4	.67	.11	.49
5	e2.9	e8.8	e11	e11	21	14	86	13	1.2	1.0	.10	.52
6	e2.9	e7.8	e11	e11	21	20	89	4.0	1.7	.46	.10	.83
7	e3.3	e8.7	e12	e11	20	34	93	3.2	1.5	.19	.10	.67
8	e2.9	e7.8	e11	e11	20	31	101	20	1.5	1.2	.10	.89
9	e3.0	e7.2	e11	e13	18	26	115	43	1.7	.71	.09	.67
10	e3.6	e7.8	e12	e16	21	23	126	18	1.6	1.4	.09	1.0
11	e4.0	e7.5	e12	e20	19	21	118	4.0	1.4	1.4	.10	.41
12	e3.7	e7.3	e11	e14	19	17	89	6.5	.74	1.0	.12	1.1
13	e3.9	e7.3	e12	e15	22	15	71	3.9	.22	.09	.12	1.4
14	e3.9	e7.4	e12	e17	22	16	67	5.0	1.4	.14	.24	1.3
15	e4.5	e7.2	e11	e16	22	20	61	7.0	1.3	.29	.12	1.6
16	e5.9	e7.5	e12	e15	19	27	44	3.3	1.2	2.8	.14	1.5
17	e8.0	e7.8	e14	e16	14	22	27	2.8	.68	2.6	.16	1.4
18	e9.8	e7.5	e13	e17	17	22	18	2.7	.68	.92	.36	1.1
19	e9.3	e7.0	e13	e18	16	23	17	3.5	.71	.86	.41	1.2
20	e9.6	e7.3	e14	e16	14	24	13	4.8	.68	.79	.21	1.0
21	e9.5	e7.0	e12	e17	14	32	8.3	2.8	.64	.82	.20	.77
22	e10	e7.8	e13	e17	14	50	4.9	2.6	.35	.72	.20	.84
23	e9.9	e9.0	e13	e16	14	52	6.0	1.9	.22	.87	.51	.94
24	e9.2	e10	e13	e17	14	62	4.1	1.8	1.0	.63	.47	.99
25	e8.7	e10	e14	e17	14	62	3.6	7.4	1.3	.41	.32	.93
26	e8.3	e10	e14	e20	12	57	3.7	6.4	1.1	.40	.35	.87
27	e8.5	e10	e14	e18	9.0	54	3.5	2.1	.64	.11	.38	.73
28	e8.1	e11	e13	e17	12	61	21	5.0	.68	.10	.44	.79
29	e8.5	e11	e13	19	13	63	29	3.4	.70	.13	.48	.89
30	e8.3	e11	e14	17	---	59	9.8	3.0	.88	.13	.76	.86
31	e8.6	---	e13	23	---	77	---	2.3	---	.13	5.1	---
TOTAL	189.4	251.1	389	481	504.0	1036	1567.9	199.7	36.52	24.47	12.46	27.68
MEAN	6.11	8.37	12.5	15.5	17.4	33.4	52.3	6.44	1.22	.79	.40	.92
MAX	10	11	14	23	22	77	126	43	4.3	2.8	5.1	1.6
MIN	2.4	7.0	11	10	9.0	11	3.5	1.8	.22	.09	.09	.28
AC-FT	376	498	772	954	1000	2050	3110	396	72	49	25	55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

MEAN	20.2	13.3	14.6	18.5	24.2	35.9	87.9	65.8	33.9	9.10	12.2	11.1
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1938 - 2000	
ANNUAL TOTAL	4817.80		4719.23			
ANNUAL MEAN	13.2		12.9		28.7	
HIGHEST ANNUAL MEAN					134	1941
LOWEST ANNUAL MEAN					.48	1956
HIGHEST DAILY MEAN	144	Jul 9	126	Apr 10	2370	May 13 1941
LOWEST DAILY MEAN	.23	May 12	.09	Jul 13	.00	Mar 1 1938
ANNUAL SEVEN-DAY MINIMUM	.45	Mar 19	.10	Aug 5	.00	Mar 1 1938
INSTANTANEOUS PEAK FLOW			146	Apr 10	[a]5770	Aug 21 1990
INSTANTANEOUS PEAK STAGE			4.18	Apr 10	[b]13.60	Aug 21 1990
INSTANTANEOUS LOW FLOW			.03	Jul 13	.00	Aug 1 1996
ANNUAL RUNOFF (AC-FT)	9560		9360		20820	
10 PERCENT EXCEEDS	37		23		65	
50 PERCENT EXCEEDS	8.4		7.7		4.5	
90 PERCENT EXCEEDS	.87		.37		.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 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 present site at datum 3.31 ft higher and Oct. 1, 1936, to Sept. 30, 1952, at datum 1.77 ft higher. Supplementary water-stage recorders at nearby sites, same datum, used at times. Water-stage recorder, at site 4 mi upstream Sept. 1994.

REMARKS.--Water-discharge records good except for estimated daily discharges, which are poor. Since 1962 flow partly regulated by Navajo Reservoir (station 09355100). Diversions for irrigation of about 118,000 acres upstream from station. Ungaged canals bypass station on both right and left banks, though some of bypass flow is returned to river downstream from gage.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1460	e880	795	820	800	785	2920	1820	4490	e503	e280	902
2	1500	837	793	841	841	797	2760	1570	4910	e474	303	816
3	1420	798	801	849	835	796	2290	1810	4890	e453	511	748
4	1360	793	815	867	831	776	1920	2590	4650	e419	437	733
5	1370	802	820	896	814	790	1280	2880	4580	e383	423	707
6	1390	795	834	916	839	815	1260	3120	5100	e357	463	706
7	1330	789	855	905	855	907	1420	3160	4420	e345	460	704
8	1270	772	869	923	842	952	1510	3130	4010	e333	444	e697
9	1230	717	874	905	841	881	1600	3360	3280	e330	400	e703
10	1240	e773	859	887	857	867	1490	2670	2770	e325	419	e707
11	1230	e785	832	849	839	845	1710	2290	2400	e320	366	e876
12	1210	e791	828	780	778	866	1520	2480	2190	e370	390	656
13	1130	e776	805	804	825	794	1390	2280	1490	309	593	561
14	990	e781	806	790	796	817	1490	1870	994	295	711	586
15	912	e769	854	807	783	804	1560	1520	970	277	728	511
16	1010	e774	876	792	778	812	1480	1340	938	281	662	430
17	1010	e789	855	817	786	823	1290	1340	891	427	587	417
18	991	791	907	815	830	812	1230	1520	780	408	568	400
19	979	776	907	813	770	814	1600	1340	713	312	688	408
20	870	784	878	804	750	810	1430	1170	674	293	940	608
21	722	774	853	791	743	863	1260	1020	633	280	899	582
22	767	791	827	785	739	1150	1250	1140	598	296	840	570
23	743	826	847	777	754	1440	1320	1920	528	e267	865	566
24	727	760	853	749	789	1440	1240	3020	484	e258	742	e760
25	726	768	846	754	785	1100	1300	3780	515	e249	568	e780
26	e790	781	883	875	821	1010	1470	3330	473	e245	594	e785
27	e828	788	877	964	807	933	1580	2480	448	e235	561	e736
28	e770	819	866	878	792	958	2180	2010	504	300	545	e532
29	e745	816	879	826	771	1100	2480	2630	469	265	624	e651
30	e842	815	874	798	---	1120	2320	3290	e524	254	922	e639
31	e960	---	788	785	---	1480	---	3770	---	e240	1120	---
TOTAL	32522	23710	26256	25862	23291	29157	49550	71650	60316	10103	18653	19477
MEAN	1049	790	847	834	803	941	1652	2311	2011	326	602	649
MAX	1500	880	907	964	857	1480	2920	3780	5100	503	1120	902
MIN	722	717	788	749	739	776	1230	1020	448	235	280	400
AC-FT	64510	47030	52080	51300	46200	57830	98280	142100	119600	20040	37000	38630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2000, BY WATER YEAR (WY)

MEAN	1265	1100	1063	1072	1211	1626	2992	4870	5345	2218	1368	1234
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1935 - 2000	
ANNUAL TOTAL	877626		390547			
ANNUAL MEAN	2404		1067		2114	
HIGHEST ANNUAL MEAN					5324	1941
LOWEST ANNUAL MEAN					702	1963
HIGHEST DAILY MEAN	7910	Sep 4	5100	Jun 6	33300	Oct 14 1941
LOWEST DAILY MEAN	717	Nov 9	235	Jul 27	8.0	Aug 25 1939
ANNUAL SEVEN-DAY MINIMUM	758	Oct 21	255	Jul 25	13	Jul 24 1959
INSTANTANEOUS PEAK FLOW			5310	Jun 6	80000	Aug 11 1929
INSTANTANEOUS PEAK STAGE			10.83	Jun 6	14.02	Jun 19 1995
INSTANTANEOUS LOW FLOW			245	Jul 21	[a]8.0	Aug 25 1939
ANNUAL RUNOFF (AC-FT)	1741000		774600		1532000	
10 PERCENT EXCEEDS	6230		1950		5050	
50 PERCENT EXCEEDS	1030		817		1140	
90 PERCENT EXCEEDS	796		422		457	

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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC												
07...	1210	852	637	106	12.5	8.0	655	10.0	1.0	240	110	70.7
JAN												
19...	1315	820	645	--	--	8.4	654	16.0	7.0	230	100	69.1
APR												
04...	1145	1590	645	103	9.7	8.3	742	21.5	10.5	110	--	38.0
JUL												
26...	1145	251	642	118	8.3	8.4	568	38.0	24.0	200	76	61.0

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
DEC												
07...	15.1	2.1	1	45.8	137	130	159	0	15.8	.3	9.6	187
JAN												
19...	13.4	2.3	1	50.0	129	124	150	0	15.7	.3	10.0	182
APR												
04...	4.77	2.8	4	107	167	--	--	--	10.4	.6	8.7	195
JUL												
26...	11.7	2.5	1	37.7	126	124	141	5	13.3	.3	8.1	139

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	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)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
DEC												
07...	<.20	.32	.07	110	.010	<2	.400	.010	<.020	<.010	.040	100
JAN												
19...	<.20	.33	.06	--	.020	--	.540	.020	<.020	<.010	.050	--
APR												
04...	<.20	13	.20	--	.060	--	1.30	.010	.020	.040	4.90	--
JUL												
26...	<.20	.33	.05	--	<.010	--	.070	<.010	<.020	<.010	.050	--

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	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)
DEC												
07...	427	2	<1	<2.0	69	<1	76	<1.0	<.8	<1	2	<10
JAN												
19...	419	2	<1	<2.0	64	<1	47	<1.0	<.8	<1	2	<10
APR												
04...	475	2	<1	E1.2	106	<1	44	<1.0	<.8	<1	2	E10
JUL												
26...	349	12	<1	E1.0	64	<1	55	<1.0	<.8	<1	1	<10

09368000 SAN JUAN RIVER AT SHIPROCK, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	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)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)
DEC											
07...	<1	8	<.3	2	1	<2.4	<3	<1	3	<1	.1
JAN											
19...	<1	6	<.3	1	2	<2.4	<3	<1	2	--	--
APR											
04...	<1	6	.6	2	<1	2.7	5	<1	1	--	--
JUL											
26...	<1	5	<.3	2	<1	<2.4	<3	<1	2	--	--

DATE	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC											
07...	.8	3.6	<2	1300	8.5	36	<.01	6	2	167	36
JAN											
19...	--	--	--	--	--	--	--	--	2	154	58
APR											
04...	--	--	--	--	--	--	--	--	2	21500	80
JUL											
26...	--	--	--	--	--	--	--	--	2	77	97

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 estimated daily discharges, which are poor. Flow partly regulated by Navajo Reservoir (09355100).

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	1620	923	900	836	905	889	3020	2690	4780	e503	e300	1120
2	1670	1070	888	885	916	915	3220	2430	4980	e475	e350	993
3	1560	985	897	892	998	958	3030	2450	5140	e450	e460	941
4	1480	979	909	e960	973	974	2630	3070	5040	e420	519	906
5	1440	974	930	e990	970	969	1960	3830	5000	e380	453	874
6	1510	985	910	e1010	967	1030	1890	4270	5210	e350	452	853
7	1410	962	953	e1000	1020	1070	1990	4720	4930	e345	510	823
8	1370	943	962	e1020	999	1290	2100	4560	4370	e340	498	829
9	1270	910	987	e1000	989	1250	2220	4630	3810	e335	459	821
10	1340	834	980	e980	1020	1170	2180	3960	3350	e329	440	1090
11	1310	858	940	976	1030	1160	2390	3170	3030	e325	416	1010
12	1320	867	913	870	947	1150	2230	3270	2760	e380	378	815
13	1270	849	919	860	952	1110	2080	3340	2330	e330	490	607
14	1220	835	e909	870	983	1040	2100	2910	1390	e310	796	613
15	1000	825	e930	871	907	1080	2110	2460	1290	e300	867	564
16	1070	917	e960	871	903	1060	2210	2200	e1200	e330	860	456
17	1130	888	e950	890	905	1080	2040	2040	e1150	e360	749	400
18	1140	912	1010	925	977	1060	1820	2230	e1010	e390	721	390
19	1110	895	1010	931	926	1040	2040	2200	e920	e360	817	373
20	1140	897	1010	931	867	1050	2130	1960	e860	e305	1090	483
21	876	909	942	911	853	1090	1940	1750	e810	e300	1240	574
22	818	893	e917	882	825	1350	1860	1600	e750	e280	1130	589
23	791	952	e929	887	844	1700	1930	e1910	e660	e285	1180	625
24	755	903	e940	857	881	e1630	1890	2520	e600	e260	970	640
25	762	875	e930	828	901	e1410	1860	3950	e630	e255	822	794
26	757	858	e970	915	e885	e1320	2050	3940	e575	e250	714	751
27	731	868	979	1140	e889	e1380	2190	2890	e540	e240	677	861
28	773	903	923	1140	e880	e1310	2530	2230	e590	e300	646	683
29	854	925	932	1000	e890	e1350	3110	2320	e550	e265	687	741
30	934	908	956	936	---	1370	3130	3330	e525	e240	944	785
31	953	---	868	913	---	1510	---	4020	---	e230	1320	---
TOTAL	35384	27302	29153	28977	27002	36765	67880	92850	68780	10222	21955	22004
MEAN	1141	910	940	935	931	1186	2263	2995	2293	330	708	733
MAX	1670	1070	1010	1140	1030	1700	3220	4720	5210	503	1320	1120
MIN	731	825	868	828	825	889	1820	1600	525	230	300	373
AC-FT	70180	54150	57820	57480	53560	72920	134600	184200	136400	20280	43550	43640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2000, BY WATER YEAR (WY)

MEAN	1285	1365	1374	1446	1543	2053	2941	4701	5317	2428	1569	1467
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1978 - 2000	
ANNUAL TOTAL	926343		468274			
ANNUAL MEAN	2538		1279		2291	
HIGHEST ANNUAL MEAN					4180	1987
LOWEST ANNUAL MEAN					991	1990
HIGHEST DAILY MEAN	8030	Sep 4	5210	Jun 6	16400	May 29 1979
LOWEST DAILY MEAN	708	Apr 14	230	Jul 31	110	Aug 17 1978
ANNUAL SEVEN-DAY MINIMUM	770	Oct 22	254	Jul 25	126	Aug 14 1978
INSTANTANEOUS PEAK FLOW			5600	Jun 6	16900	May 29 1979
INSTANTANEOUS PEAK STAGE			3.86	Jun 6	[a]6.25	May 29 1979
INSTANTANEOUS LOW FLOW			230	Jul 31	110	Aug 19 1978
ANNUAL RUNOFF (AC-FT)	1837000		928800		1660000	
10 PERCENT EXCEEDS	6600		2520		5560	
50 PERCENT EXCEEDS	1200		944		1400	
90 PERCENT EXCEEDS	876		447		707	

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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)
DEC										
07...	0910	943	644	66	8.0	8.0	683	.5	.5	240
JAN										
19...	1010	907	635	100	10.6	8.4	697	--	5.0	160
APR										
04...	0845	3130	651	99	9.9	8.3	777	12.0	8.5	150
JUL										
20...	0840	434	649	97	7.4	8.3	658	26.5	20.5	210

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)
DEC									
07...	110	70.6	15.8	2.2	1	48.9	138	132	161
JAN									
19...	37	47.7	10.8	1.6	1	35.4	131	126	152
APR									
04...	25	49.7	7.35	3.0	3	93.4	149	130	158
JUL									
20...	77	62.8	12.3	2.8	1	45.5	142	130	159

DATE	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC									
07...	0	16.7	.3	9.1	204	459	447	--	--
JAN									
19...	1	16.5	.3	9.1	203	465	400	--	--
APR									
04...	0	11.6	<.1	8.8	224	510	476	--	--
JUL									
20...	0	13.6	.3	9.7	178	430	403	616	100

09386900 RIO NUTRIA NEAR RAMAH, NM

LOCATION.--Lat 35°16'57", long 108°33'10", in NW$^1/_4$SW$^1/_4$ 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 except for estimated daily discharges, which are poor.

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	.02	.16	.25	.19	.12	.08	11	.07	.08	.05	.08	.25
2	.03	.16	.26	.22	.10	.13	11	.05	.13	.06	.09	.26
3	.04	.13	.26	.19	.11	.10	9.0	.06	.11	.05	.03	.25
4	.05	.15	.25	.15	.13	.09	1.9	.07	.09	.05	.05	.25
5	.04	.18	.23	.16	.14	.23	.42	.06	.07	.05	.05	.30
6	.05	.15	.25	.13	.12	.21	.11	.04	.06	.05	.04	.44
7	.06	.15	.25	.08	.11	.34	.05	.08	.04	.03	.03	.38
8	.03	.08	.26	.09	.12	.20	.02	.09	.07	.03	.04	.49
9	.04	.10	.21	.09	.15	.15	.02	.08	.12	.05	.05	.26
10	.05	.10	.27	.10	.17	.08	.01	.08	.11	.06	.06	.20
11	.05	.08	.28	.13	.13	.07	.01	.06	.11	.06	.06	.19
12	.04	.06	.18	.14	.12	.07	.01	.05	.13	.06	.05	.26
13	.18	.06	.16	.14	.12	.06	.01	.06	.16	.07	.05	.29
14	.12	.05	.16	.15	.21	.09	.01	.07	.13	.08	.04	.36
15	.15	.08	.09	.17	.16	.16	.02	.07	.13	.10	.10	.35
16	.17	.11	.07	.18	.13	.21	.01	.06	.15	.16	.16	.42
17	.21	.13	.10	.22	.16	.26	.05	.08	.19	.13	.19	.47
18	.27	.67	.19	.23	.13	.25	.07	.09	.21	.11	.64	.58
19	.31	.51	.18	.21	.11	.28	.06	.11	.25	.05	.34	.38
20	.35	.34	.12	.21	.12	.38	.06	.13	.38	.05	.23	.19
21	.26	.35	.09	.28	.12	.80	.05	.07	.35	.06	.26	.19
22	.13	.34	.12	.26	.22	.87	.07	.06	.30	.06	.28	.22
23	.10	.27	.15	.23	.14	.57	.06	.09	.28	.07	.22	.21
24	.11	.26	.15	.25	.12	.35	.04	.07	.29	.07	.24	.23
25	.13	.23	.22	.33	.09	.49	.04	.07	.28	.08	.28	.24
26	.12	.27	.22	1.0	.07	.76	.04	.08	.32	.07	.28	.25
27	.23	.26	.17	.43	.08	.48	.04	.06	.38	.08	.28	.23
28	.23	.24	.16	.22	.08	1.0	.04	.05	.46	.07	.30	.25
29	.23	.23	.19	.11	.08	17	.04	.06	.14	.07	.30	.28
30	.16	.23	.15	.13	---	7.4	.07	.07	.02	.08	.24	.33
31	.10	---	.12	.13	---	9.2	---	.10	---	.07	.23	---
TOTAL	4.06	6.13	5.76	6.55	3.66	42.36	34.33	2.24	5.54	2.13	5.29	9.00
MEAN	.13	.20	.19	.21	.13	1.37	1.14	.072	.18	.069	.17	.30
MAX	.35	.67	.28	1.0	.22	17	11	.13	.46	.16	.64	.58
MIN	.02	.05	.07	.08	.07	.06	.01	.04	.02	.03	.03	.19
AC-FT	8.1	12	11	13	7.3	84	68	4.4	11	4.2	10	18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2000, BY WATER YEAR (WY)

MEAN	.49	.82	.81	1.13	5.79	34.9	31.7	3.27	.32	.62	1.68	.65
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	.072	.031	.015	.038	.033
(WY)	1994	1978	1978	1976	1971	1972	1976	2000	1984	1993	1971	1983

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1970 - 2000	
ANNUAL TOTAL	186.36		127.05			
ANNUAL MEAN	.51		.35		6.84	
HIGHEST ANNUAL MEAN					22.4	1980
LOWEST ANNUAL MEAN					.13	1976
HIGHEST DAILY MEAN	42	Aug 3	17	Mar 29	1030	Mar 6 1995
LOWEST DAILY MEAN	.01	Jun 24	.01	Apr 10	.00	Oct 1 1969
ANNUAL SEVEN-DAY MINIMUM	.03	Jul 1	.01	Apr 10	.00	Oct 1 1969
INSTANTANEOUS PEAK FLOW			42	Mar 29	[a]1850	Mar 5 1995
INSTANTANEOUS PEAK STAGE			6.58	Mar 29	[b]9.34	Mar 5 1995
INSTANTANEOUS LOW FLOW			.01	Feb 20	.01	Feb 20 2000
ANNUAL RUNOFF (AC-FT)	370		252		4950	
10 PERCENT EXCEEDS	.65		.35		8.8	
50 PERCENT EXCEEDS	.13		.13		.18	
90 PERCENT EXCEEDS	.05		.05		.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, with 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 estimated daily discharges, which are poor. Several observations of water temperature were made during the year. No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.38	.91	1.9	e.37	1.9	.00	.00	.00	.00	.00
2	.00	.00	.50	.88	1.7	e.39	1.8	.00	.00	.00	.00	.00
3	.00	.00	.53	.89	2.0	e.37	1.5	.00	.00	.00	.00	.00
4	.00	.00	.50	.64	1.9	.36	1.2	.03	.00	.00	.00	.00
5	.00	.00	.43	.68	2.0	.41	.96	.00	.00	.00	.00	.00
6	.00	.00	.51	.76	1.9	.46	.34	.00	.00	.00	.00	.00
7	.00	.00	.58	.58	1.3	.52	.35	.00	.00	.00	.00	.00
8	.00	.00	.61	.53	1.2	.59	.19	.00	.00	.00	.00	.00
9	.00	.00	.67	.46	1.1	.60	.18	.00	.00	.00	.00	.00
10	.00	.00	.71	.41	.81	.56	.07	.00	.00	.00	.00	.00
11	.00	.00	.83	.48	e.70	.55	.14	.00	.00	.00	.00	.00
12	.00	.00	.64	.56	e.87	.55	.09	.00	.00	.00	.00	.00
13	.00	.00	.52	.76	e.70	.58	.08	.00	.00	.00	.00	.00
14	.00	.00	.58	1.1	e.63	.56	.05	.00	.00	.00	.00	.00
15	.00	.00	.49	1.2	e.61	.62	.05	.00	.00	.00	.14	.00
16	.00	.00	.35	1.3	e.49	.71	.05	.00	.00	.00	.01	.00
17	.00	.00	.50	1.4	e.58	1.2	.06	.00	.00	.00	.00	.00
18	.00	.00	.71	1.4	e.41	1.0	.10	.00	.00	.00	.00	.00
19	.00	.00	.82	1.5	e.50	.96	.29	.00	.00	.00	.00	.00
20	.00	.00	.74	2.2	e.36	.83	.55	.00	.00	.00	.00	.00
21	.00	.00	.55	1.4	e.68	.96	.41	.00	.00	.00	.00	.00
22	.00	.00	.57	1.2	e.66	1.2	.20	.00	.00	.00	.00	.00
23	.00	.00	.49	.95	e.42	1.1	.12	.00	.00	.00	.00	.00
24	.00	.00	.47	1.1	e.58	.87	.38	.00	.00	.00	.00	.00
25	.00	.00	.54	1.2	e.64	.71	.12	.00	.00	.00	.77	.00
26	.00	.00	.65	2.1	e.61	.83	.06	.00	.00	.00	.00	.00
27	.00	.11	.73	2.2	e.53	.77	.07	.00	.00	.00	.00	.00
28	.00	.23	.75	2.2	e.36	1.1	.02	.00	.00	.00	.00	.00
29	.00	.20	.78	1.4	e.50	2.0	.01	.00	.00	.00	.00	.00
30	.00	.22	.81	1.6	---	2.4	.00	.00	.00	.00	.00	.00
31	.00	---	.79	2.5	---	1.9	---	.00	---	.00	.00	---
TOTAL	0.00	0.76	18.73	36.49	26.64	26.03	11.34	0.03	0.00	0.00	0.92	0.00
MEAN	.000	.025	.60	1.18	.92	.84	.38	.001	.000	.000	.030	.000
MAX	.00	.23	.83	2.5	2.0	2.4	1.9	.03	.00	.00	.77	.00
MIN	.00	.00	.35	.41	.36	.36	.00	.00	.00	.00	.00	.00
AC-FT	.00	1.5	37	72	53	52	22	.06	.00	.00	1.8	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2000, BY WATER YEAR (WY)

MEAN	1.50	1.41	1.30	2.86	9.82	41.2	49.1	5.11	.17	2.66	5.55	2.34
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1970 - 2000	
ANNUAL TOTAL	254.28		120.94			
ANNUAL MEAN	.70		.33		10.2	
HIGHEST ANNUAL MEAN					46.9	1973
LOWEST ANNUAL MEAN					.33	2000
HIGHEST DAILY MEAN	57	Aug 2	2.5	Jan 31	1530	Mar 13 1985
LOWEST DAILY MEAN	.00	May 18	.00	Oct 1	.00	May 22 1970
ANNUAL SEVEN-DAY MINIMUM	.00	May 18	.00	Oct 1	.00	May 22 1970
INSTANTANEOUS PEAK FLOW			24	Aug 25	[a]5200	Aug 4 1974
INSTANTANEOUS PEAK STAGE			3.35	Aug 25	6.61	Aug 4 1974
INSTANTANEOUS LOW FLOW			[b].00	Oct. 1	.00	Oct 1 1995
ANNUAL RUNOFF (AC-FT)	504		240		7410	
10 PERCENT EXCEEDS	1.4		1.1		9.8	
50 PERCENT EXCEEDS	.16		.00		.73	
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 66.61 ft.
b No flow most of the year.

09430500 GILA RIVER NEAR GILA, NM

LOCATION.--Lat 33°03'40", long 108°32'12", in NE$^1/_4$NW$^1/_4$ 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 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. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	71	66	64	59	56	66	45	21	57	41	44
2	90	70	66	65	59	57	69	44	21	47	35	42
3	87	70	66	66	58	56	69	43	24	43	31	36
4	85	71	66	64	57	55	65	42	26	38	27	33
5	83	71	66	61	55	53	61	40	25	34	24	30
6	80	70	65	61	55	55	59	39	25	31	26	28
7	78	71	64	61	56	64	59	37	31	32	31	26
8	75	71	63	61	59	68	59	37	32	33	32	27
9	74	70	64	61	58	65	58	37	28	35	30	28
10	73	69	63	61	58	61	59	35	26	37	37	28
11	73	68	63	61	56	61	57	34	24	36	42	27
12	71	69	63	61	56	59	57	32	21	35	43	27
13	72	68	62	61	56	57	57	31	19	42	41	25
14	72	68	63	61	56	57	58	32	19	72	42	24
15	71	68	62	61	56	57	57	31	19	62	45	24
16	70	68	61	61	55	57	55	30	18	57	40	23
17	69	68	62	61	56	57	56	29	20	54	35	24
18	71	68	62	61	57	58	56	28	22	50	36	24
19	74	67	63	61	57	58	54	28	23	44	47	24
20	74	66	63	61	58	58	53	30	23	47	42	24
21	73	65	62	61	58	58	54	29	26	48	36	24
22	73	65	63	61	59	64	55	29	24	48	31	27
23	73	65	63	61	58	71	53	27	24	45	32	25
24	72	65	62	61	58	68	51	26	23	40	41	23
25	71	67	66	61	58	66	49	26	21	37	41	24
26	71	68	66	61	56	64	47	25	20	37	37	25
27	71	67	65	60	55	63	46	25	20	38	34	25
28	71	67	65	60	56	64	46	25	26	40	45	25
29	70	66	64	60	57	64	46	24	46	41	43	25
30	69	66	64	59	---	64	45	23	55	45	50	28
31	71	---	64	59	---	65	---	22	---	50	46	---
TOTAL	2320	2043	1977	1899	1652	1880	1676	985	752	1355	1163	819
MEAN	74.8	68.1	63.8	61.3	57.0	60.6	55.9	31.8	25.1	43.7	37.5	27.3
MAX	93	71	66	66	59	71	69	45	55	72	50	44
MIN	69	65	61	59	55	53	45	22	18	31	24	23
AC-FT	4600	4050	3920	3770	3280	3730	3320	1950	1490	2690	2310	1620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2000, BY WATER YEAR (WY)

MEAN	118	99.3	167	173	235	317	219	141	59.8	65.0	143	151
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1928 - 2000	
ANNUAL TOTAL	35646		18521			
ANNUAL MEAN	97.7		50.6		158	
HIGHEST ANNUAL MEAN					477	1979
LOWEST ANNUAL MEAN					47.8	1956
HIGHEST DAILY MEAN	2170	Aug 6	93	Oct 1	23400	Dec 28 1984
LOWEST DAILY MEAN	21	Jul 2	18	Jun 16	15	Jul 16 1971
ANNUAL SEVEN-DAY MINIMUM	23	Jun 28	20	Jun 12	16	Jul 14 1971
INSTANTANEOUS PEAK FLOW			111	Aug 28	[a]35200	Dec 28 1984
INSTANTANEOUS PEAK STAGE			1.18	Aug 28	[b]13.00	Dec 28 1984
INSTANTANEOUS LOW FLOW			16	Jun 16	14	Jul 15 1971
ANNUAL RUNOFF (AC-FT)	70700		36740		114400	
10 PERCENT EXCEEDS	149		70		313	
50 PERCENT EXCEEDS	67		57		74	
90 PERCENT EXCEEDS	36		25		40	

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$^1/_4$SE$^1/_4$ 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. Elevation of gage is 5,440 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	e1.6	2.0	e2.4	1.3	1.1	3.6	.45	.00	8.8	.00	6.2
2	4.0	e1.6	2.0	e2.7	1.2	1.1	2.9	.38	.00	6.1	.00	4.0
3	3.6	e1.6	2.0	e3.2	1.1	1.1	2.7	.15	.00	5.1	.00	2.8
4	3.3	e1.6	2.1	e4.3	1.1	1.1	2.4	e.06	.00	3.2	.00	2.0
5	3.2	e1.6	2.1	3.6	1.0	1.4	2.2	.00	.00	1.8	.00	1.4
6	e2.7	e1.6	e2.4	e4.0	1.1	1.7	2.0	.00	.00	1.1	.00	.86
7	e2.4	e1.6	e2.5	e4.5	1.0	3.6	1.9	.00	.00	1.0	.00	.39
8	e2.2	e1.6	e2.7	e4.0	.98	2.5	1.8	.00	.00	.99	.00	.22
9	e2.1	1.6	e2.6	e3.5	1.0	3.0	1.7	.00	.00	.55	.05	.00
10	e2.0	1.6	e2.4	e2.7	1.0	2.3	1.6	.00	.00	.17	.37	.00
11	e1.9	1.6	e2.1	e2.2	1.0	1.9	1.5	.00	.00	.00	8.5	.00
12	e1.9	1.6	e2.5	e1.8	1.0	1.8	1.5	.00	.00	.00	2.0	.00
13	e1.8	1.6	e2.6	e1.7	1.1	1.8	1.4	.00	.00	1.9	.91	.00
14	e1.8	1.6	e3.1	1.6	1.1	1.8	1.3	.00	.00	2.0	.22	.00
15	e1.8	1.6	e2.8	1.6	1.0	1.6	1.3	.00	.00	1.4	.00	.00
16	e1.8	1.6	e2.5	1.5	.81	1.4	1.3	.00	.00	.38	.00	.00
17	e1.8	1.6	e2.7	1.4	.79	1.2	1.4	.00	.00	.14	.00	.00
18	e1.7	1.7	e2.5	1.5	.72	1.1	1.3	.00	.00	.00	6.5	.00
19	e1.7	1.8	e2.0	1.4	.79	1.2	1.2	.00	.00	.00	2.2	.00
20	e1.7	1.9	e2.7	1.4	.65	1.3	1.2	.00	.00	.00	.99	.00
21	e1.7	1.9	e2.4	1.4	.62	1.5	1.1	.00	.00	.00	.27	.00
22	e1.7	1.9	e2.1	1.4	.83	2.8	1.3	.00	.00	.00	6.2	.00
23	e1.7	2.0	e2.5	1.3	.81	4.3	1.5	.00	.00	.00	7.6	.00
24	e1.7	2.1	e2.8	1.3	.81	3.7	1.3	.00	.00	.00	4.5	.00
25	e1.7	2.1	e2.1	1.2	.81	2.8	1.2	.00	.00	.00	2.9	.00
26	e1.7	2.1	e2.0	1.2	.81	2.5	1.1	.00	.00	.00	2.4	.00
27	e1.7	2.2	e2.3	1.2	.79	2.1	.83	.00	.00	.00	2.5	.00
28	e1.6	2.1	e2.3	1.3	.99	2.2	.56	.00	1.1	.00	7.4	.00
29	e1.6	2.1	e2.0	1.2	1.0	2.8	.44	.00	7.7	.00	16	.00
30	e1.6	2.0	e2.0	1.2	---	2.2	.33	.00	15	.00	12	.00
31	e1.6	---	e2.2	1.4	---	3.6	---	.00	---	.00	11	---
TOTAL	66.0	53.1	73.0	65.1	27.21	64.5	45.86	1.04	23.80	34.63	94.51	17.87
MEAN	2.13	1.77	2.35	2.10	.94	2.08	1.53	.034	.79	1.12	3.05	.60
MAX	4.3	2.2	3.1	4.5	1.3	4.3	3.6	.45	15	8.8	16	6.2
MIN	1.6	1.6	2.0	1.2	.62	1.1	.33	.00	.00	.00	.00	.00
AC-FT	131	105	145	129	54	128	91	2.1	47	69	187	35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2000, BY WATER YEAR (WY)

MEAN	21.3	17.6	44.4	35.8	56.6	71.3	53.9	27.3	3.44	7.61	17.0	16.2
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1967 - 2000	
ANNUAL TOTAL	1824.88		566.62			
ANNUAL MEAN	5.00		1.55		31.2	
HIGHEST ANNUAL MEAN					97.0	1979
LOWEST ANNUAL MEAN					1.55	2000
HIGHEST DAILY MEAN	159	Aug 5	16	Aug 29	6000	Dec 19 1978
LOWEST DAILY MEAN	.00	May 17	.00	May 5	.00	Jun 17 1967
ANNUAL SEVEN-DAY MINIMUM	.00	May 25	.00	May 5	.00	Jun 23 1967
INSTANTANEOUS PEAK FLOW			65	Aug 11	[a]10800	Aug 12 1967
INSTANTANEOUS PEAK STAGE			2.44	Aug 11	[b]13.70	Aug 12 1967
INSTANTANEOUS LOW FLOW			.00	May 4	.00	Oct 13 1995
ANNUAL RUNOFF (AC-FT)	3620		1120		22600	
10 PERCENT EXCEEDS	10		2.9		83	
50 PERCENT EXCEEDS	2.4		1.3		6.4	
90 PERCENT EXCEEDS	.00		.00		.34	

e Estimated
a From rating curve extended above 220 ft^3/s, on basis of slope-area measurements of 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 2000 ft downstream from ditch heading, 5.5 miles northeast of Cliff, and 5.0 miles from Gila, NM.

PERIOD OF RECORD.--October 1999 to September 2000 (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 except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 32 ft^3/s, Oct. 15, 1999, gage height 2.35 ft; minimum, 8.4 ft^3/s, June 16, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 32 ft^3/s, Oct. 15, gage height 2.35 ft; minimum daily discharge, 8.4 ft^3/s, June 16.

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	24	26	---	---	---	---	22	16	e11	17	17	16
2	24	26	---	---	---	---	22	16	e10	17	14	16
3	24	26	---	---	---	---	22	e15	e10	16	13	14
4	24	26	---	---	---	---	22	e15	e11	15	12	13
5	23	26	---	---	---	---	21	e15	e12	14	11	12
6	23	26	---	---	---	---	20	e15	11	14	11	11
7	23	25	---	---	---	---	20	e16	13	13	12	11
8	23	22	---	---	---	---	20	e15	14	14	13	10
9	23	22	---	---	---	---	19	e15	12	14	13	11
10	22	---	---	---	---	---	20	e16	12	14	14	10
11	23	---	---	---	---	---	19	e15	11	14	17	11
12	22	---	---	---	---	---	19	e15	10	14	18	11
13	22	---	---	---	---	---	19	e13	9.4	16	15	10
14	22	---	---	---	---	---	19	e14	8.9	20	15	10
15	24	---	---	---	---	---	19	e15	8.7	20	16	9.7
16	26	---	---	---	---	21	19	e12	8.4	20	15	9.5
17	26	---	---	---	---	21	19	e12	9.6	19	14	9.6
18	26	---	---	---	---	21	19	e13	11	19	14	9.8
19	27	---	---	---	---	21	19	e13	11	17	17	9.7
20	27	---	---	---	---	21	18	e14	11	17	16	9.6
21	27	---	---	---	---	21	19	e12	12	17	15	9.6
22	27	---	---	---	---	22	19	e11	11	18	13	10
23	27	---	---	---	---	24	18	e12	12	17	13	9.5
24	26	---	---	---	---	23	18	e12	11	16	15	9.1
25	26	---	---	---	---	22	17	e12	10	15	16	8.7
26	26	---	---	---	---	22	16	e11	9.4	15	15	9.0
27	26	---	---	---	---	21	16	e11	9.5	14	14	8.7
28	26	---	---	---	---	21	16	e11	11	15	17	9.0
29	26	---	---	---	---	21	16	e10	14	15	16	9.0
30	25	---	---	---	---	21	16	e11	14	16	17	9.7
31	26	---	---	---	---	21	---	e10	---	18	17	---
TOTAL	766	---	---	---	---	---	568	413	328.9	500	455	316.2
MEAN	24.7	---	---	---	---	---	18.9	13.3	11.0	16.1	14.7	10.5
MAX	27	---	---	---	---	---	22	16	14	20	18	16
MIN	22	---	---	---	---	---	16	10	8.4	13	11	8.7
AC-FT	1520	---	---	---	---	---	1130	819	652	992	902	627

WTR YR 2000 TOTAL 3916.1 MEAN 16.4 MAX 27 MIN 8.4 AC-FT 7770

e Estimated

09430820 FORT WEST DITCH NEAR GILA, NM

LOCATION.--Lat 33°00'56", long 108°32'36", in NE $^1/_4$, SE $^1/_4$, NE $^1/_4$, sec. 12, T.15 S., R.17 W., Grant County, Hydrologic Unit 15040002, on left bank 4.5 miles east of Gila, and 5.8 miles southeast of Cliff, NM.

PERIOD OF RECORD.--October 1999 to September 2000 (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; minimum, 0.02 ft^3/s, Mar. 16, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 45 ft^3/s, Oct. 29, gage height 3.49 ft; minimum, 0.02 ft^3/s, Mar. 16.

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	12	16	---	---	---	---	25	17	7.3	26	18	11
2	12	15	---	---	---	---	26	16	7.4	22	14	11
3	14	14	---	---	---	---	26	16	10	20	12	10
4	24	14	---	---	---	---	25	15	10	17	9.6	12
5	23	14	---	---	---	---	24	14	9.5	14	7.6	12
6	23	12	---	---	---	---	23	14	9.4	13	8.3	11
7	22	9.0	---	---	---	---	24	14	12	12	10	9.7
8	22	16	---	---	---	---	23	15	13	13	12	8.9
9	22	---	---	---	---	---	23	17	11	14	11	9.6
10	22	---	---	---	---	---	23	16	10	15	13	9.6
11	22	---	---	---	---	---	23	15	9.0	15	18	9.0
12	22	---	---	---	---	---	23	14	9.1	14	21	7.5
13	22	---	---	---	---	---	23	15	6.2	17	18	6.1
14	22	---	---	---	---	---	23	15	5.7	26	17	6.5
15	22	---	---	---	---	---	23	15	5.3	26	19	7.1
16	22	---	---	---	---	.57	22	14	4.7	24	16	6.6
17	22	---	---	---	---	.53	22	14	5.1	23	14	8.2
18	21	---	---	---	---	.56	22	13	8.4	22	15	7.4
19	22	---	---	---	---	.62	22	13	7.9	20	20	7.2
20	22	---	---	---	---	14	21	13	8.6	19	18	6.8
21	22	---	---	---	---	23	22	13	9.3	18	15	6.8
22	22	---	---	---	---	25	22	13	8.4	21	12	8.0
23	21	---	---	---	---	26	22	11	8.8	19	12	7.7
24	22	---	---	---	---	25	21	10	8.2	16	13	7.1
25	22	---	---	---	---	25	20	10	7.3	15	13	6.7
26	22	---	---	---	---	24	19	12	8.9	13	13	7.3
27	20	---	---	---	---	24	18	11	6.4	13	10	7.4
28	19	---	---	---	---	24	18	9.7	8.7	16	15	7.2
29	19	---	---	---	---	24	17	10	18	16	14	6.5
30	17	---	---	---	---	24	17	8.2	24	19	13	4.7
31	17	---	---	---	---	25	---	7.6	---	21	12	---
TOTAL	638	---	---	---	---	---	662	410.5	277.6	559	433.5	246.6
MEAN	20.6	---	---	---	---	---	22.1	13.2	9.25	18.0	14.0	8.22
MAX	24	---	---	---	---	---	26	17	24	26	21	12
MIN	12	---	---	---	---	---	17	7.6	4.7	12	7.6	4.7
AC-FT	1270	---	---	---	---	---	1310	814	551	1110	860	489

WTR YR 2000 TOTAL 3622.48 MEAN 15.2 MAX 26 MIN .53 AC-FT 7190

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 .4 mile from State Highway 153 at Dominguez farms, 1.2 miles from Gila, NM and 2.5 miles from Cliff, NM.

PERIOD OF RECORD.--October 1999 to September 2000 (irrigation sean only).

GAGE.--Water-stage recorder. Elevation of gage is 4,550 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18 ft^3/s, July 16, 2000, gage height 1.78 ft; minimum, no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 18 ft^3/s, July 16, gage height 1.78 ft; minimum, no flow at times.

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	6.0	.00	---	---	---	---	7.3	8.1	3.9	8.6	5.6	11
2	5.7	.00	---	---	---	---	7.3	8.2	3.8	8.7	5.2	6.1
3	5.7	.00	---	---	---	---	5.3	8.4	4.1	7.7	4.7	8.0
4	5.7	.00	---	---	---	---	4.8	8.1	4.8	6.1	5.0	6.3
5	4.9	.00	---	---	---	---	14	7.8	4.6	12	5.3	5.9
6	4.3	.00	---	---	---	---	15	7.3	4.4	12	5.1	9.7
7	4.3	.00	---	---	---	---	14	6.7	4.6	7.1	5.5	11
8	4.1	4.8	---	---	---	---	13	6.4	5.0	2.7	7.5	11
9	5.0	9.3	---	---	---	---	6.2	5.7	4.1	2.8	6.5	6.8
10	4.5	---	---	---	---	---	.03	5.3	4.3	3.0	5.5	6.1
11	3.8	---	---	---	---	---	.28	6.3	3.7	3.3	5.1	5.2
12	3.9	---	---	---	---	---	.03	6.3	3.7	3.8	7.3	2.4
13	2.5	---	---	---	---	---	.00	6.7	3.6	6.0	6.0	1.8
14	2.1	---	---	---	---	---	.06	6.9	3.7	7.9	6.3	3.7
15	2.2	---	---	---	---	---	.00	6.6	4.2	11	5.0	3.8
16	1.5	---	---	---	---	7.8	.00	6.2	3.8	17	4.4	2.9
17	1.1	---	---	---	---	8.0	.00	5.9	3.9	17	7.2	2.9
18	.68	---	---	---	---	8.7	5.6	5.9	3.7	10	11	3.6
19	.50	---	---	---	---	9.4	10	5.4	3.5	6.6	14	3.6
20	.53	---	---	---	---	7.8	10	5.2	3.5	6.8	11	3.6
21	.46	---	---	---	---	8.2	10	4.8	3.0	6.9	3.8	3.7
22	.42	---	---	---	---	9.3	11	4.3	2.6	13	3.0	3.5
23	.42	---	---	---	---	8.5	11	4.6	2.4	15	2.8	4.5
24	.42	---	---	---	---	8.6	10	5.0	2.0	11	2.1	3.5
25	.46	---	---	---	---	9.3	11	4.6	2.0	8.3	2.1	2.6
26	.00	---	---	---	---	8.7	9.5	4.9	1.9	6.9	2.6	1.8
27	.00	---	---	---	---	8.4	9.5	5.3	2.0	6.0	5.0	.91
28	.00	---	---	---	---	8.1	9.4	6.2	2.4	5.9	11	.69
29	.00	---	---	---	---	7.7	8.9	5.0	4.3	6.5	16	1.2
30	.00	---	---	---	---	6.4	8.8	4.6	10	11	15	3.2
31	.00	---	---	---	---	7.4	---	4.1	---	9.5	14	---
TOTAL	71.19	---	---	---	---	---	212.00	186.8	113.5	260.1	210.6	141.00
MEAN	2.30	---	---	---	---	---	7.07	6.03	3.78	8.39	6.79	4.70
MAX	6.0	---	---	---	---	---	15	8.4	10	17	16	11
MIN	.00	---	---	---	---	---	.00	4.1	1.9	2.7	2.1	.69
AC-FT	141	---	---	---	---	---	421	371	225	516	418	280

WTR YR 2000 TOTAL 1341.59 MEAN 5.61 MAX 17 MIN .00 AC-FT 2660

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 estimated daily discharges, which are poor. Diversions for irrigation of about 5,000 acres upstream from station.

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	105	89	82	96	86	73	90	43	21	94	21	42
2	101	83	82	95	86	70	92	39	22	56	e20	37
3	99	87	83	98	78	80	90	37	22	49	e15	37
4	94	93	82	97	83	83	75	36	20	44	e11	35
5	84	91	88	97	81	78	66	35	20	40	e18	25
6	79	97	90	96	81	80	62	33	19	33	21	24
7	78	87	88	95	81	82	61	32	19	30	29	29
8	76	80	86	92	78	90	61	33	23	27	39	28
9	76	70	89	91	77	90	62	30	23	21	28	28
10	76	81	88	92	73	86	70	23	22	23	25	26
11	77	78	90	78	82	82	64	27	18	24	67	25
12	75	78	92	75	85	73	60	29	18	40	17	24
13	73	77	90	74	82	75	46	28	19	30	15	23
14	72	82	92	78	78	72	46	28	21	28	13	23
15	75	88	87	79	71	71	59	28	23	34	11	22
16	77	75	84	76	67	70	63	27	24	23	11	20
17	82	72	79	72	69	69	61	28	24	25	10	17
18	86	80	74	74	69	71	57	28	22	22	30	17
19	82	88	76	78	62	72	55	27	22	19	15	17
20	80	91	80	81	64	74	54	26	22	37	12	16
21	78	95	77	84	70	73	52	27	21	23	13	16
22	76	97	83	81	62	76	49	27	20	22	9.9	16
23	78	88	86	84	52	93	53	26	20	30	9.5	16
24	80	88	87	87	57	99	53	24	21	30	11	16
25	86	86	92	89	80	88	49	23	20	29	17	16
26	82	84	90	90	77	93	47	23	24	26	22	17
27	80	82	74	90	72	95	47	22	30	27	21	16
28	84	86	72	87	68	92	47	22	35	27	16	18
29	85	90	87	90	73	93	44	22	86	30	32	20
30	84	79	97	86	---	91	42	22	53	55	45	20
31	88	---	94	90	---	85	---	22	---	30	45	---
TOTAL	2548	2542	2641	2672	2144	2519	1777	877	754	1028	669.4	686
MEAN	82.2	84.7	85.2	86.2	73.9	81.3	59.2	28.3	25.1	33.2	21.6	22.9
MAX	105	97	97	98	86	99	92	43	86	94	67	42
MIN	72	70	72	72	52	69	42	22	18	19	9.5	16
AC-FT	5050	5040	5240	5300	4250	5000	3520	1740	1500	2040	1330	1360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2000, BY WATER YEAR (WY)

MEAN	200	152	332	316	409	491	308	191	61.4	77.3	213	236
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1963 - 2000	
ANNUAL TOTAL	46860		20857.4			
ANNUAL MEAN	128		57.0		248	
HIGHEST ANNUAL MEAN					664	1993
LOWEST ANNUAL MEAN					57.0	2000
HIGHEST DAILY MEAN	2720	Aug 6	105	Oct 1	34000	Dec 19 1978
LOWEST DAILY MEAN	14	Jul 1	9.5	Aug 23	3.6	Jul 20 1978
ANNUAL SEVEN-DAY MINIMUM	16	Jun 27	12	Aug 19	4.9	Jul 16 1971
INSTANTANEOUS PEAK FLOW			247	Aug 11	[a]48800	Dec 19 1978
INSTANTANEOUS PEAK STAGE			5.34	Aug 11	[b]29.80	Dec 19 1978
INSTANTANEOUS LOW FLOW			8.3	Aug 23	2.2	Aug 5 1947
ANNUAL RUNOFF (AC-FT)	92950		41370		180000	
10 PERCENT EXCEEDS	223		90		538	
50 PERCENT EXCEEDS	83		68		98	
90 PERCENT EXCEEDS	35		20		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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC												
15...	0845	86	665	99	11.6	8.4	392	5.5	3.0	140	--	42.9
JAN												
06...	0915	97	663	100	11.7	8.3	393	7.0	3.0	140	1	41.0
MAY												
24...	0805	24	658	93	7.6	8.3	453	29.5	18.0	150	--	43.9
AUG												
23...	0840	8.8	664	110	8.4	8.5	458	28.0	21.5	170	15	50.0

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
DEC												
15...	8.67	1.7	1	31.2	150	144	168	4	13.2	2.0	36.5	34.2
JAN												
06...	8.54	1.8	1	32.8	147	137	165	1	13.0	1.9	34.5	33.3
MAY												
24...	9.74	2.4	1	35.2	157	155	189	0	12.4	1.9	36.1	49.6
AUG												
23...	11.0	2.4	1	34.2	167	156	173	8	13.8	1.9	34.4	47.5

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	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)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)
DEC												
15...	<.20	<.20	.04	--	<.010	--	.670	<.010	.030	.020	.030	--
JAN												
06...	<.20	<.20	.05	40	.010	<2	.220	<.010	.050	.030	.040	310
MAY												
24...	<.20	.27	.10	--	.040	--	.790	.030	.020	.020	.050	--
AUG												
23...	<.20	.56	.08	--	.010	--	.900	<.010	<.020	.020	.100	--

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	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)
DEC												
15...	260	2	<1	<2.0	17	<1	42	<1.0	<.8	<1	<1	<10
JAN												
06...	250	1	<1	E1.1	16	<1	49	<1.0	<.8	<1	<1	<10
MAY												
24...	288	<1	<1	E1.1	20	<1	56	<1.0	<.8	<1	1	<10
AUG												
23...	292	2	<1	E1.9	30	<1	61	<1.0	<.8	<1	2	<10

09431500 GILA RIVER NEAR REDROCK, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	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)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)
DEC											
15...	<1	3	<.3	3	<1	<2.4	<3	<1	<1	--	--
JAN											
06...	<1	3	<.3	2	<1	<2.4	<3	<1	<1	<1	.1
MAY											
24...	<1	19	<.3	3	<1	<2.4	<3	<1	<1	--	--
AUG											
23...	<1	3	<.3	3	<1	<2.4	<3	<1	4	--	--

DATE	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC											
15...	--	--	--	--	--	--	--	--	2	37	87
JAN											
06...	14	8.5	25	13000	14	370	<.01	50	2	30	76
MAY											
24...	--	--	--	--	--	--	--	--	2	28	97
AUG											
23...	--	--	--	--	--	--	--	--	2	214	92

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 miles northeast of Redrock, 24 miles north of Lordsburg, and 27 miles west of Silver City.

PERIOD OF RECORD.--October 1999 to September 2000 (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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 13 ft^3/s, June 29, 2000, gage height 2.60 ft; minimum, 0.02 ft^3/s, May 27, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 13 ft^3/s, June 29, gage height 2.60 ft; minimum, 0.02 ft^3/s, May 27.

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	1.7	.43	---	---	---	---	.82	.49	5.0	1.9	6.2	1.5
2	1.6	.43	---	---	---	---	.79	.40	5.0	1.8	5.1	1.6
3	1.6	.43	---	---	---	---	.66	.32	4.9	1.8	3.6	1.9
4	1.5	.43	---	---	---	---	.54	.37	2.2	1.7	.60	5.7
5	1.4	.43	---	---	---	---	.61	.42	.14	5.6	.50	10
6	1.2	.29	---	---	---	---	.53	1.3	.15	8.6	.45	8.8
7	1.2	.27	---	---	---	---	1.0	6.6	.10	8.4	.47	9.5
8	1.2	---	---	---	---	---	4.3	6.5	.09	8.4	.48	9.1
9	1.2	---	---	---	---	---	4.2	6.3	.13	2.2	.47	9.0
10	1.1	---	---	---	---	---	4.2	5.4	.14	1.8	.47	8.7
11	.94	---	---	---	---	---	3.9	5.3	.14	1.7	.50	8.3
12	.93	---	---	---	---	---	3.7	5.3	.19	1.5	.52	8.0
13	.93	---	---	---	---	---	3.2	5.2	.29	1.3	.59	7.9
14	.86	---	---	---	---	---	3.1	2.8	.35	1.1	.63	7.0
15	.77	---	---	---	---	1.1	3.3	.42	.99	.98	.71	1.5
16	.64	---	---	---	---	3.9	3.3	.32	7.3	3.4	.77	1.3
17	.61	---	---	---	---	6.0	3.2	.27	7.2	9.2	.76	1.2
18	2.3	---	---	---	---	6.1	3.1	.27	7.1	9.0	.81	.92
19	3.1	---	---	---	---	6.0	3.0	.14	6.4	8.4	.85	.89
20	3.3	---	---	---	---	5.9	2.9	.14	3.8	6.1	.82	.81
21	3.3	---	---	---	---	5.8	2.9	.11	1.0	1.4	.79	.70
22	3.3	---	---	---	---	3.8	2.8	.09	.96	1.2	2.9	.54
23	3.3	---	---	---	---	.68	4.0	.05	1.0	.91	8.1	.48
24	3.0	---	---	---	---	2.8	5.0	.05	.99	.68	6.3	.39
25	3.0	---	---	---	---	4.8	4.9	.05	.84	.62	1.5	.41
26	2.8	---	---	---	---	4.9	4.9	.04	.89	.67	1.4	.35
27	1.4	---	---	---	---	4.8	5.1	.02	3.5	.53	1.5	.29
28	.71	---	---	---	---	4.6	5.2	2.8	9.1	.44	1.6	.27
29	.71	---	---	---	---	4.5	4.5	4.8	10	2.3	1.6	.24
30	.71	---	---	---	---	4.4	.56	4.9	4.9	7.8	1.6	.25
31	.53	---	---	---	---	3.4	---	5.1	---	6.8	1.6	---
TOTAL	50.84	---	---	---	---	---	90.21	66.27	84.79	108.23	54.19	107.54
MEAN	1.64	---	---	---	---	---	3.01	2.14	2.83	3.49	1.75	3.58
MAX	3.3	---	---	---	---	---	5.2	6.6	10	9.2	8.1	10
MIN	.53	---	---	---	---	---	.53	.02	.09	.44	.45	.24
AC-FT	101	---	---	---	---	---	179	131	168	215	107	213

WTR YR 2000 TOTAL 638.26 MEAN 2.68 MAX 10 MIN .02 AC-FT 1270

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, Ariz.," 1914-15 and as "Gila River at Fuller's Ranch, near Duncan, Ariz.," 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 estimated daily discharges, 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	91	96	105	102	95	97	44	14	51	28	35
2	116	91	96	104	101	92	101	44	14	64	25	35
3	111	90	95	106	101	93	100	42	13	55	21	33
4	106	93	96	105	98	102	96	41	12	49	19	33
5	99	96	96	106	100	101	85	40	12	45	19	27
6	94	95	101	105	98	99	77	38	12	39	19	21
7	87	97	100	104	98	103	72	36	13	34	21	20
8	84	91	101	104	99	106	70	34	12	31	23	21
9	83	89	100	103	95	110	68	33	12	30	26	21
10	81	85	103	103	91	109	71	e32	12	28	29	20
11	81	89	102	100	92	107	76	e31	11	27	33	20
12	81	89	102	93	100	102	72	e30	10	28	40	19
13	79	88	104	91	102	95	66	e29	9.2	32	37	19
14	77	89	103	90	100	97	57	e29	8.5	31	38	18
15	77	93	104	91	98	93	59	e28	7.9	31	34	19
16	79	93	101	91	93	90	67	e28	7.5	33	33	19
17	80	88	100	90	91	87	69	e27	7.4	29	31	18
18	83	86	96	89	91	86	66	e27	7.3	27	32	16
19	82	91	95	90	91	85	60	e26	7.3	25	35	16
20	79	96	96	91	88	85	58	e26	7.6	26	32	15
21	80	97	97	92	89	88	55	e25	7.3	29	31	15
22	78	100	96	93	90	91	52	e25	6.8	27	29	14
23	77	99	99	92	84	95	49	e24	6.5	26	24	13
24	78	97	101	93	78	107	50	24	6.2	27	22	13
25	79	96	103	95	81	104	49	22	6.0	27	22	13
26	81	96	104	96	91	99	47	21	5.8	26	22	13
27	81	96	99	98	93	103	47	20	5.7	24	21	13
28	83	96	92	99	91	103	44	19	5.8	24	25	12
29	85	99	94	100	90	101	43	18	45	24	25	12
30	86	100	102	101	---	98	43	16	49	25	26	13
31	87	---	105	101	---	97	---	15	---	31	33	---
TOTAL	2677	2796	3079	3021	2716	3023	1966	894	353.8	1005	855	576
MEAN	86.4	93.2	99.3	97.5	93.7	97.5	65.5	28.8	11.8	32.4	27.6	19.2
MAX	123	100	105	106	102	110	101	44	49	64	40	35
MIN	77	85	92	89	78	85	43	15	5.7	24	19	12
AC-FT	5310	5550	6110	5990	5390	6000	3900	1770	702	1990	1700	1140
CFSM	.03	.03	.03	.03	.03	.03	.02	.01	.00	.01	.01	.01
IN.	.03	.03	.04	.04	.03	.04	.02	.01	.00	.01	.01	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2000, BY WATER YEAR (WY)

MEAN	159	130	250	310	358	429	271	151	51.1	75.8	204	203
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1932 - 2000	
ANNUAL TOTAL	46186		22961.8			
ANNUAL MEAN	127		62.7		210	
HIGHEST ANNUAL MEAN					746	1993
LOWEST ANNUAL MEAN					43.1	1956
HIGHEST DAILY MEAN	2670	Aug 6	123	Oct 1	33100	Dec 19 1978
LOWEST DAILY MEAN	17	Jun 30	5.7	Jun 27	1.7	Jul 11 1956
ANNUAL SEVEN-DAY MINIMUM	18	Jun 28	6.1	Jun 22	2.0	Sep 26 1956
INSTANTANEOUS PEAK FLOW			266	Jun 29	[a]58700	Dec 19 1978
INSTANTANEOUS PEAK STAGE			3.81	Jun 29	29	Dec 19 1978
INSTANTANEOUS LOW FLOW			5.7	Jun 27	1.0	Jul 14 1934
ANNUAL RUNOFF (AC-FT)	91610		45540		152500	
ANNUAL RUNOFF (CFSM)	.040		.020		.066	
ANNUAL RUNOFF (INCHES)	.54		.27		.89	
10 PERCENT EXCEEDS	214		102		455	
50 PERCENT EXCEEDS	91		78		92	
90 PERCENT EXCEEDS	34		14		23	

e Estimated
a From rating curve extended above 38,000 ft^3/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 miles northeast of Luna, and 20 miles north of Reserve, NM.

PERIOD OF RECORD.--October 1999 to September 2000 (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 except for estimated daily discharges, which are poor..

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 2.0 ft^3/s, Aug. 11, 2000, gage height 0.97 ft; minimum, no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 2.0 ft^3/s, Aug. 11, gage height 0.97 ft; minimum, no flow at times.

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	.00	e.80	---	---	---	---	1.3	.43	1.1	1.1	.36	.44
2	.00	e.70	---	---	---	---	1.3	.47	1.1	1.1	.35	.42
3	.00	e.80	---	---	---	---	1.2	.51	1.0	.95	.34	.40
4	.00	e.90	---	---	---	---	1.2	.49	.87	.43	.37	.37
5	.00	e1.0	---	---	---	---	1.2	.45	.87	.40	.36	.36
6	.00	1.1	---	---	---	---	1.2	.46	.86	.42	.39	.35
7	.57	1.2	---	---	---	---	1.1	.48	.82	.47	.39	.36
8	.44	1.2	---	---	---	---	1.1	.75	.82	.48	.42	.39
9	.25	1.2	---	---	---	---	1.2	1.1	.78	.44	.41	.41
10	.41	1.2	---	---	---	---	1.1	1.1	.74	.54	.45	.37
11	e.40	e1.6	---	---	---	---	1.2	1.1	.71	.64	.70	.29
12	e.50	---	---	---	---	---	1.2	1.2	.72	.53	.43	.30
13	e.40	---	---	---	---	---	1.2	1.2	.61	.43	.42	.31
14	e.60	---	---	---	---	---	1.2	1.2	.57	.41	.60	.38
15	e.70	---	---	---	---	---	1.2	1.2	.48	.37	.60	.38
16	e.80	---	---	---	---	---	1.2	1.2	.46	.41	.65	.39
17	e.90	---	---	---	---	---	1.2	1.2	.47	.45	.71	.42
18	e.90	---	---	---	---	---	1.2	1.3	.43	.78	.67	.42
19	e1.0	---	---	---	---	---	1.2	1.3	.37	.71	.70	.49
20	e1.1	---	---	---	---	---	1.2	1.3	.35	.74	.60	.45
21	e1.0	---	---	---	---	---	1.2	1.3	.41	.67	.57	.47
22	e.90	---	---	---	---	---	.84	1.2	.33	.65	.63	.47
23	e.80	---	---	---	---	---	.36	1.2	.38	.65	.55	.48
24	e.70	---	---	---	---	---	.36	1.2	.41	.65	.53	.47
25	e.80	---	---	---	---	---	.38	1.2	.36	.54	.57	.45
26	e.90	---	---	---	---	---	.46	1.2	.25	.40	.62	.46
27	e1.0	---	---	---	---	---	.45	1.2	.34	.37	.57	.48
28	e1.0	---	---	---	---	---	.44	1.2	.76	.35	.53	.55
29	e1.1	---	---	---	---	1.2	.42	1.1	.61	.36	.54	.55
30	e1.0	---	---	---	---	1.2	.41	1.1	.65	.41	.57	.50
31	e.90	---	---	---	---	1.4	---	1.0	---	.36	.47	---
TOTAL	19.07	---	---	---	---	---	29.22	31.34	18.63	17.21	16.07	12.58
MEAN	.62	---	---	---	---	---	.97	1.01	.62	.56	.52	.42
MAX	1.1	---	---	---	---	---	1.3	1.3	1.1	1.1	.71	.55
MIN	.00	---	---	---	---	---	.36	.43	.25	.35	.34	.29
AC-FT	38	---	---	---	---	---	58	62	37	34	32	25

WTR YR 2000 TOTAL 159.62 MEAN .70 MAX 1.6 MIN .00 AC-FT 317

e Estimated

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. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	8.0	7.4	7.7	7.1	4.6	7.4	5.5	4.4	1.8	2.9	4.3
2	23	7.5	7.1	7.4	7.5	4.8	7.0	2.7	4.7	2.3	2.4	4.1
3	19	7.4	7.5	6.7	7.6	4.4	6.7	3.1	4.7	3.4	2.7	4.0
4	16	7.4	7.2	6.8	7.0	4.5	6.6	3.7	4.4	3.4	2.7	3.8
5	14	7.3	7.0	6.8	7.6	6.0	6.6	3.5	2.5	2.8	3.1	3.4
6	13	6.4	7.8	6.8	7.3	7.1	6.2	3.1	3.8	2.6	7.1	2.9
7	12	6.7	6.3	6.6	7.3	7.5	6.1	6.1	2.3	3.6	4.2	2.5
8	11	5.8	7.2	7.0	7.1	7.5	6.0	9.0	1.3	3.9	3.5	2.1
9	11	7.7	7.4	6.7	7.2	6.9	6.0	8.9	1.2	3.3	3.0	2.3
10	11	8.0	7.2	7.1	7.2	6.9	6.1	8.0	.98	3.4	3.5	2.2
11	10	5.6	7.9	7.0	7.1	6.8	6.5	7.4	.94	2.6	4.5	1.8
12	9.9	6.6	7.1	7.1	7.2	6.5	6.1	7.4	.87	3.9	4.3	1.7
13	9.6	7.0	7.4	7.3	7.2	6.1	5.7	7.6	.85	5.2	3.8	1.7
14	9.7	6.6	6.8	8.2	7.1	6.1	5.6	7.8	.83	5.7	3.3	1.7
15	9.3	6.7	6.4	6.3	6.6	6.3	4.4	7.3	.82	6.1	2.7	1.2
16	9.3	6.8	6.5	7.4	5.7	6.8	3.7	7.4	.82	6.8	4.5	1.6
17	9.0	6.8	7.9	7.3	5.1	6.6	4.2	7.6	.84	6.6	3.1	1.5
18	9.0	6.6	8.3	7.4	6.1	6.6	4.2	7.4	.91	6.7	3.2	1.2
19	9.1	5.3	7.1	7.4	6.7	6.5	4.4	7.9	1.6	5.7	4.0	1.2
20	9.3	5.4	7.1	7.2	6.7	4.8	5.6	7.8	2.3	6.0	3.7	.79
21	8.9	5.6	6.7	7.2	6.3	6.7	5.4	7.5	3.1	5.8	3.6	.51
22	8.7	5.7	7.5	7.3	6.8	8.1	7.5	7.2	3.3	5.7	3.4	.45
23	8.1	7.9	8.1	7.3	6.2	7.6	7.4	7.0	3.6	4.7	3.4	.42
24	8.1	5.6	5.9	7.1	4.7	7.3	6.6	6.3	3.6	3.7	3.4	.40
25	7.5	4.0	7.6	7.2	4.5	7.1	6.1	6.1	3.1	4.9	3.2	.40
26	7.2	5.4	7.6	7.1	4.4	6.8	5.2	6.0	2.7	4.7	3.3	.40
27	7.3	6.8	7.4	7.1	4.4	6.8	4.8	6.7	3.5	4.6	6.7	.45
28	7.9	7.3	8.0	6.8	4.3	7.0	7.1	5.5	2.3	3.5	8.5	.51
29	7.1	7.3	6.7	7.1	4.3	7.0	7.4	4.7	1.6	5.8	5.4	1.4
30	6.7	7.4	7.1	6.9	---	6.9	6.0	4.3	1.4	3.8	4.9	1.6
31	7.1	---	7.4	6.7	---	7.2	---	3.7	---	2.9	4.8	---
TOTAL	334.8	198.6	224.6	220.0	184.3	201.8	178.6	194.2	69.26	135.9	122.8	52.53
MEAN	10.8	6.62	7.25	7.10	6.36	6.51	5.95	6.26	2.31	4.38	3.96	1.75
MAX	26	8.0	8.3	8.2	7.6	8.1	7.5	9.0	4.7	6.8	8.5	4.3
MIN	6.7	4.0	5.9	6.3	4.3	4.4	3.7	2.7	.82	1.8	2.4	.40
AC-FT	664	394	445	436	366	400	354	385	137	270	244	104

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2000, BY WATER YEAR (WY)

MEAN	28.3	18.6	20.3	21.0	38.6	76.2	51.4	19.2	6.47	8.41	17.4	19.5
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1959 - 2000	
ANNUAL TOTAL	7517.8		2117.39			
ANNUAL MEAN	20.6		5.79		27.4	
HIGHEST ANNUAL MEAN					101	1973
LOWEST ANNUAL MEAN					5.79	2000
HIGHEST DAILY MEAN	680	Aug 3	26	Oct 1	5000	Oct 20 1972
LOWEST DAILY MEAN	1.4	Jul 4	.40	Sep 24	[e].24	Jul 18 1997
ANNUAL SEVEN-DAY MINIMUM	2.6	Jul 8	.43	Sep 21	.43	Sep 21 2000
INSTANTANEOUS PEAK FLOW			67	Aug 6	[a]9830	Oct 1 1983
INSTANTANEOUS PEAK STAGE			1.74	Aug 6	[b]11.71	Oct 1 1983
INSTANTANEOUS LOW FLOW			.40	Sep 23	[c].40	Sep 23 2000
ANNUAL RUNOFF (AC-FT)	14910		4200		19830	
10 PERCENT EXCEEDS	27		7.9		53	
50 PERCENT EXCEEDS	7.1		6.4		8.4	
90 PERCENT EXCEEDS	3.8		2.2		3.4	

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.
e Estimated

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 mile southwest of Reserve, 12.7 miles southwest of Apache Creek, NM.

PERIOD OF RECORD.--October 1999 to September 2000 (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; minimum, no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 11 ft^3/s, April 22, gage height 3.24 ft; minimum, no flow at times.

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	.00	.00	---	---	---	---	6.1	4.4	2.4	1.2	1.0	.00
2	.00	.00	---	---	---	---	6.0	4.6	2.5	.83	.86	.00
3	.00	.00	---	---	---	---	5.9	4.3	1.7	.82	.78	.00
4	.00	.00	---	---	---	---	6.0	4.2	1.5	.79	.86	.89
5	.00	.00	---	---	---	---	6.1	3.9	1.6	1.1	.97	2.6
6	.00	.00	---	---	---	---	6.0	3.9	1.5	1.4	1.5	2.3
7	.00	.00	---	---	---	---	7.1	4.0	2.0	1.0	2.6	2.1
8	.00	.00	---	---	---	---	6.9	3.7	1.5	.85	2.1	2.0
9	.00	.00	---	---	---	---	6.5	3.4	1.7	.93	1.9	2.1
10	.00	---	---	---	---	---	5.7	3.3	1.9	1.4	1.9	2.0
11	.00	---	---	---	---	---	3.9	3.2	2.0	1.7	2.2	2.0
12	.00	---	---	---	---	---	4.1	3.3	2.1	.95	2.2	1.8
13	.00	---	---	---	---	---	6.0	3.2	2.1	.73	1.8	1.8
14	.00	---	---	---	---	---	4.3	3.1	2.2	.52	1.6	1.7
15	.00	---	---	---	---	---	5.8	3.2	2.2	.47	1.5	1.5
16	.00	---	---	---	---	---	6.4	3.2	2.4	.29	1.5	1.6
17	.00	---	---	---	---	---	6.7	3.0	2.5	.37	3.4	1.7
18	.00	---	---	---	---	---	6.5	2.9	2.6	1.2	1.5	1.6
19	.00	---	---	---	---	---	5.4	2.7	2.2	1.5	.00	1.6
20	.00	---	---	---	---	---	5.6	2.7	1.9	1.5	.00	1.6
21	.00	---	---	---	---	---	5.6	2.6	1.9	1.3	.00	1.4
22	.00	---	---	---	---	---	7.4	2.4	1.6	1.2	.00	1.4
23	.00	---	---	---	---	---	7.3	2.2	1.5	1.1	.00	1.3
24	.00	---	---	---	---	---	6.0	2.6	1.3	.91	.23	1.3
25	.00	---	---	---	---	---	5.6	2.4	1.3	.97	1.9	1.5
26	.00	---	---	---	---	---	5.3	2.6	1.4	1.1	2.0	1.6
27	.00	---	---	---	---	---	4.8	2.1	1.2	.68	2.0	1.5
28	.00	---	---	---	---	---	5.1	2.3	.99	.49	1.6	1.7
29	.00	---	---	---	---	5.4	4.8	2.6	.93	1.5	.00	1.8
30	.00	---	---	---	---	5.6	4.7	2.2	1.0	1.7	.00	1.9
31	.00	---	---	---	---	6.4	---	2.6	---	.98	.00	---
TOTAL	0.00	---	---	---	---	---	173.6	96.8	53.62	31.48	37.90	46.29
MEAN	.000	---	---	---	---	---	5.79	3.12	1.79	1.02	1.22	1.54
MAX	.00	---	---	---	---	---	7.4	4.6	2.6	1.7	3.4	2.6
MIN	.00	---	---	---	---	---	3.9	2.1	.93	.29	.00	.00
AC-FT	.00	---	---	---	---	---	344	192	106	62	75	92

WTR YR 2000 TOTAL 457.09 MEAN 2.02 MAX 7.4 MIN .00 AC-FT 907

09442956 THOMASON FLAT DITCH NEAR GLENWOOD, NM

LOCATION.--Lat 33°25'54", long 108°55'54", in NW 1/4 , NW 1/4 , NW 1/4 , sec. 20, T.10 S., R.20 W., Catron County, Hydrologic Unit 15040004, on right bank 3.7 mile northwest of Alma, 11 miles north of Glenwood, NM.

PERIOD OF RECORD.--October 1999 to September 2000 (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 poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 10 ft^3/s, April 8, 2000, gage height 3.21 ft; minimum, no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 10 ft^3/s, April 8, gage height 3.21 ft; minimum, no flow at times.

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	.00	.00	---	---	---	---	.00	3.4	1.0	1.6	2.0	3.8
2	.00	.00	---	---	---	---	.00	3.5	1.1	2.1	4.5	2.0
3	.00	.00	---	---	---	---	.00	3.5	1.2	2.6	4.7	.04
4	.00	.00	---	---	---	---	.00	3.9	1.3	2.8	6.6	.02
5	.00	.00	---	---	---	---	.00	3.2	1.1	2.1	5.0	.01
6	.00	.00	---	---	---	---	.00	3.0	1.2	4.2	3.3	.00
7	.00	.00	---	---	---	---	.22	3.0	1.6	3.8	2.6	.00
8	.00	.00	---	---	---	---	4.8	3.6	1.2	4.2	2.9	.00
9	.00	.00	---	---	---	---	3.8	3.1	1.1	5.0	2.5	.00
10	.00	---	---	---	---	---	4.8	3.1	2.9	1.4	2.2	.00
11	.00	---	---	---	---	---	3.2	2.5	4.3	1.1	3.5	.00
12	.00	---	---	---	---	---	3.3	3.0	3.5	.71	4.3	.00
13	.00	---	---	---	---	---	3.9	4.2	4.5	1.3	3.0	.00
14	.00	---	---	---	---	---	4.1	3.9	3.8	2.8	1.9	.00
15	.00	---	---	---	---	---	3.8	3.5	4.6	1.9	2.2	.00
16	.00	---	---	---	---	---	3.7	3.1	4.2	2.0	.89	.00
17	.00	---	---	---	---	---	3.7	2.8	4.6	3.8	4.1	.00
18	.00	---	---	---	---	---	3.8	4.0	4.2	2.1	3.9	.00
19	.00	---	---	---	---	---	3.7	2.0	5.0	1.7	.44	.00
20	.00	---	---	---	---	---	3.7	1.9	3.5	2.5	4.0	.00
21	.00	---	---	---	---	---	3.9	3.3	.67	4.5	2.3	.00
22	.00	---	---	---	---	---	3.7	4.2	.50	3.5	.66	.00
23	.00	---	---	---	---	---	3.9	3.5	.42	2.6	3.5	.00
24	.00	---	---	---	---	---	4.3	4.3	.22	3.2	3.3	.00
25	.00	---	---	---	---	---	4.3	2.9	.53	4.0	2.6	.00
26	.00	---	---	---	---	---	4.8	3.5	.54	4.2	2.4	.00
27	.00	---	---	---	---	---	3.7	3.8	.49	4.3	2.5	.00
28	.00	---	---	---	---	---	3.3	3.1	.85	4.3	3.0	.00
29	.00	---	---	---	---	---	3.8	3.1	.70	5.3	3.5	.00
30	.00	---	---	---	---	---	3.4	2.8	.52	.05	5.0	.00
31	.00	---	---	---	---	.00	---	1.9	---	.00	4.3	---
TOTAL	0.00	---	---	---	---	---	89.62	100.6	61.34	85.66	97.59	5.87
MEAN	.000	---	---	---	---	---	2.99	3.25	2.04	2.76	3.15	.20
MAX	.00	---	---	---	---	---	4.8	4.3	5.0	5.3	6.6	3.8
MIN	.00	---	---	---	---	---	.00	1.9	.22	.00	.44	.00
AC-FT	.00	---	---	---	---	---	178	200	122	170	194	12

WTR YR 2000 TOTAL 440.68 MEAN 1.97 MAX 6.6 MIN .00 AC-FT 874

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, Nm and 7.0 mi north of Glenwood.

PERIOD OF RECORD.--October 1999 to September 2000 (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 fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 22 ft^3/s, Aug. 18, 2000, gage height 2.41 ft; minimum, 2.4 ft^3/s, no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 22 ft^3/s, Aug. 18, gage height 2.64 ft; minimum, 2.4 ft^3/s, no flow at times.

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	7.2	.00	---	---	---	---	4.0	9.4	5.2	e4.8	5.6	.12
2	7.6	9.3	---	---	---	---	5.0	10	4.6	e4.9	6.0	.08
3	13	18	---	---	---	---	6.3	9.0	4.9	e5.1	5.1	.06
4	11	18	---	---	---	---	12	8.7	5.1	e5.0	4.5	.03
5	8.4	14	---	---	---	---	11	7.4	4.8	e5.0	4.9	5.9
6	6.9	10	---	---	---	---	9.2	6.4	4.8	e10	6.3	11
7	8.6	10	---	---	---	---	8.5	7.8	e4.8	11	6.3	8.7
8	7.7	10	---	---	---	---	7.4	5.8	e4.6	11	11	5.7
9	7.0	10	---	---	---	---	7.4	6.0	e4.5	6.0	7.2	6.9
10	7.4	---	---	---	---	---	7.2	5.4	e4.5	4.7	5.2	7.0
11	9.9	---	---	---	---	---	7.2	5.1	e4.6	4.5	4.8	8.4
12	11	---	---	---	---	---	8.0	5.5	e4.6	4.7	4.5	7.8
13	13	---	---	---	---	---	8.4	5.8	e4.5	5.1	4.4	7.0
14	18	---	---	---	---	---	6.4	5.4	e4.7	5.3	4.2	9.5
15	18	---	---	---	---	---	6.1	5.0	e4.6	5.2	4.1	9.7
16	18	---	---	---	---	---	6.0	4.9	e4.6	7.1	3.7	12
17	17	---	---	---	---	---	5.2	4.7	e4.7	6.6	3.5	10
18	15	---	---	---	---	---	5.4	5.2	e4.7	3.4	7.2	9.6
19	15	---	---	---	---	---	6.7	4.6	e4.6	5.8	7.7	9.4
20	15	---	---	---	---	---	8.7	4.5	e4.5	6.5	7.1	9.1
21	14	---	---	---	---	---	5.7	4.7	e4.6	5.8	7.0	7.6
22	9.0	---	---	---	---	---	5.6	4.5	e4.6	6.0	6.8	6.9
23	5.0	---	---	---	---	---	5.8	4.5	e4.6	5.9	7.2	7.8
24	6.3	---	---	---	---	---	6.6	8.2	e4.7	5.8	11	7.0
25	5.6	---	---	---	---	---	7.6	9.1	e4.8	5.4	15	7.2
26	4.7	---	---	---	---	---	7.4	5.3	e4.9	5.5	12	9.0
27	3.2	---	---	---	---	---	8.2	5.5	e5.1	7.2	9.2	7.8
28	.93	---	---	---	---	---	8.1	4.8	e4.9	8.2	9.8	7.5
29	.01	---	---	---	---	---	8.9	4.6	e4.7	5.2	8.5	7.2
30	.00	---	---	---	---	---	10	2.6	e4.7	.00	3.3	6.9
31	.00	---	---	---	---	2.5	---	5.6	---	6.2	.28	---
TOTAL	283.44	---	---	---	---	---	220.0	186.0	141.5	182.90	203.38	212.89
MEAN	9.14	---	---	---	---	---	7.33	6.00	4.72	5.90	6.56	7.10
MAX	18	---	---	---	---	---	12	10	5.2	11	15	12
MIN	.00	---	---	---	---	---	4.0	2.6	4.5	.00	.28	.03
AC-FT	562	---	---	---	---	---	436	369	281	363	403	422

WTR YR 2000 TOTAL 1531.91 MEAN 6.84 MAX 18 MIN .00 AC-FT 3040

e Estimated

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 miles south of Glenwood.

PERIOD OF RECORD.--October 1999 to September 2000 (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 fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 12 ft^3/s, Aug. 18, 2000, gage height 2.64 ft; minimum; 5.4 ft^3/s, June 20, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 12 ft^3/s, Aug. 18, gage height 2.64 ft; minimum, 5.4 ft^3/s, June 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	8.0	9.3	---	---	---	---	8.7	8.8	8.8	7.8	8.8	9.0
2	8.0	9.3	---	---	---	---	8.7	8.7	8.7	8.0	8.9	9.0
3	8.1	9.3	---	---	---	---	8.8	8.6	8.6	8.7	8.9	8.9
4	8.1	9.4	---	---	---	---	8.8	8.7	8.5	8.8	8.7	8.8
5	8.2	9.2	---	---	---	---	8.4	8.6	8.6	8.8	8.7	8.7
6	8.2	9.4	---	---	---	---	8.1	8.7	8.6	8.8	8.9	8.5
7	8.3	9.4	---	---	---	---	8.1	8.5	8.5	8.8	9.0	8.8
8	8.3	9.5	---	---	---	---	8.4	8.6	8.6	8.8	9.3	9.1
9	8.3	---	---	---	---	---	9.6	8.7	8.5	8.8	9.3	9.1
10	8.4	---	---	---	---	---	9.5	8.7	5.7	8.9	9.2	9.1
11	8.4	---	---	---	---	---	9.3	8.5	8.3	8.8	9.1	8.9
12	8.4	---	---	---	---	---	8.1	8.7	8.3	8.9	9.0	8.8
13	8.4	---	---	---	---	---	8.2	8.8	8.3	8.7	9.0	8.7
14	8.5	---	---	---	---	---	8.4	8.8	8.3	8.5	9.0	8.8
15	8.5	---	---	---	---	---	8.2	8.7	8.3	8.6	9.0	8.8
16	8.5	---	---	---	---	---	8.2	8.7	8.4	8.7	9.0	8.8
17	8.6	---	---	---	---	---	8.2	8.6	8.4	8.4	9.3	8.4
18	8.6	---	---	---	---	---	8.3	8.7	8.3	8.4	9.1	8.7
19	8.7	---	---	---	---	---	8.5	8.7	8.1	8.4	9.6	8.3
20	8.7	---	---	---	---	---	8.6	8.7	5.4	8.5	9.0	8.3
21	8.8	---	---	---	---	---	8.5	8.0	8.1	8.7	8.9	8.4
22	8.8	---	---	---	---	8.3	8.8	8.7	8.2	8.5	9.0	8.6
23	8.9	---	---	---	---	8.3	8.5	8.6	8.3	8.6	9.0	8.2
24	9.0	---	---	---	---	8.4	8.8	8.6	8.4	9.0	9.0	8.1
25	9.0	---	---	---	---	8.4	8.8	8.6	8.4	9.2	9.0	8.5
26	9.1	---	---	---	---	8.5	8.6	8.6	8.5	9.3	8.9	8.5
27	9.0	---	---	---	---	8.5	8.8	8.7	8.4	9.2	9.0	8.0
28	9.1	---	---	---	---	8.4	8.8	8.7	8.1	9.1	9.5	6.5
29	9.1	---	---	---	---	8.4	9.1	8.7	8.0	6.6	9.4	6.5
30	9.2	---	---	---	---	8.5	8.9	8.8	6.0	7.5	9.9	5.9
31	9.2	---	---	---	---	8.6	---	7.1	---	8.3	9.2	---
TOTAL	266.4	---	---	---	---	---	258.7	266.6	243.6	266.1	281.6	252.7
MEAN	8.59	---	---	---	---	---	8.62	8.60	8.12	8.58	9.08	8.42
MAX	9.2	---	---	---	---	---	9.6	8.8	8.8	9.3	9.9	9.1
MIN	8.0	---	---	---	---	---	8.1	7.1	5.4	6.6	8.7	5.9
AC-FT	528	---	---	---	---	---	513	529	483	528	559	501

WTR YR 2000 TOTAL 1994.8 MEAN 8.60 MAX 9.9 MIN 5.4 AC-FT 3960

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 good. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	41	34	31	32	24	31	17	11	49	21	32
2	70	42	35	33	35	24	32	17	12	53	19	28
3	63	35	35	35	35	24	32	17	13	25	18	26
4	60	37	33	35	34	22	31	17	14	21	18	24
5	55	38	35	35	34	20	30	18	14	19	18	23
6	46	39	36	34	33	20	27	16	14	18	19	21
7	48	39	37	33	33	20	28	17	13	19	30	21
8	43	38	39	34	33	21	25	17	14	20	22	21
9	39	38	39	34	34	19	24	17	13	18	30	19
10	40	36	39	33	35	20	24	17	14	18	21	19
11	37	36	39	32	35	21	22	17	13	17	20	20
12	38	37	37	33	29	20	22	15	12	18	22	20
13	39	35	38	34	28	20	21	14	12	19	21	19
14	36	33	34	35	29	22	22	16	13	19	22	19
15	34	33	31	36	28	24	22	16	12	18	18	20
16	34	37	30	37	27	22	22	16	14	19	17	19
17	34	38	30	36	28	22	22	15	13	21	24	19
18	34	36	30	37	27	22	22	14	15	20	20	18
19	36	35	30	35	27	22	22	14	20	17	58	19
20	36	37	29	33	25	21	21	14	17	17	22	20
21	36	38	31	34	25	23	22	15	14	16	19	20
22	39	39	31	36	26	24	20	14	13	24	19	20
23	38	38	31	33	27	28	21	14	13	25	20	20
24	39	38	31	35	28	30	21	13	13	19	20	19
25	38	38	31	35	29	30	20	13	13	17	19	18
26	37	38	31	32	27	32	22	14	13	17	18	17
27	37	37	31	31	28	30	22	14	13	18	34	16
28	38	36	31	30	27	30	21	15	16	19	47	17
29	40	36	31	29	24	31	19	13	16	20	40	16
30	41	34	29	31	---	30	18	13	17	233	85	16
31	41	---	29	32	---	30	---	12	---	38	38	---
TOTAL	1320	1112	1027	1043	862	748	708	471	414	891	819	606
MEAN	42.6	37.1	33.1	33.6	29.7	24.1	23.6	15.2	13.8	28.7	26.4	20.2
MAX	74	42	39	37	35	32	32	18	20	233	85	32
MIN	34	33	29	29	24	19	18	12	11	16	17	16
AC-FT	2620	2210	2040	2070	1710	1480	1400	934	821	1770	1620	1200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2000, BY WATER YEAR (WY)

MEAN	83.2	49.2	86.0	99.1	127	194	142	75.9	28.6	37.6	77.2	60.5
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1928 - 2000	
ANNUAL TOTAL	23009.2		10021			
ANNUAL MEAN	63.0		27.4		88.3	
HIGHEST ANNUAL MEAN					351	1979
LOWEST ANNUAL MEAN					13.9	1956
HIGHEST DAILY MEAN	1190	Sep 18	233	Jul 30	27500	Oct 2 1983
LOWEST DAILY MEAN	8.8	Apr 1	11	Jun 1	2.5	Jun 25 1956
ANNUAL SEVEN-DAY MINIMUM	9.7	Mar 18	13	May 29	3.9	Jun 22 1956
INSTANTANEOUS PEAK FLOW			1420	Jul 30	[a]37100	Oct 2 1983
INSTANTANEOUS PEAK STAGE			4.36	Jul 30	[b]18.15	Oct 2 1983
INSTANTANEOUS LOW FLOW			10	Jun 24	1.5	Dec 3 1906
ANNUAL RUNOFF (AC-FT)	45640		19880		63980	
10 PERCENT EXCEEDS	87		38		171	
50 PERCENT EXCEEDS	31		25		32	
90 PERCENT EXCEEDS	13		14		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 from 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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
DEC												
15...	1220	30	653	106	10.2	8.1	364	7.0	10.0	140	40.1	10.3
JAN												
06...	1355	34	650	101	9.7	8.4	361	--	10.0	140	37.6	10.4
MAY												
24...	1200	14	634	121	8.8	8.1	405	36.0	21.5	160	45.2	12.0
AUG												
23...	1330	19	652	110	8.0	8.0	404	29.5	23.0	150	42.7	11.5

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
DEC												
15...	1.9	.7	19.9	187	182	222	0	6.0	.4	38.1	8.0	<.20
JAN												
06...	2.0	.8	21.4	185	173	211	1	6.5	.5	39.9	8.1	<.20
MAY												
24...	1.9	.8	22.8	200	197	240	0	6.1	.4	37.3	9.1	<.20
AUG												
23...	2.2	.8	23.7	200	192	235	0	6.2	.4	38.7	8.4	<.20

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NH4 TOTAL IN BOT. MAT. (MG/KG AS N) (00611)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 TOT. IN BOT MAT (MG/KG AS N) (00633)	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)	PHOS-PHORUS TOTAL IN BOT. MAT. (MG/KG AS P) (00668)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
DEC												
15...	<.20	.04	--	<.010	--	.190	<.010	.030	.030	.050	--	235
JAN												
06...	<.20	.05	4.5	<.010	<2	.170	<.010	.050	.050	.060	150	232
MAY												
24...	<.20	.04	--	<.010	--	.130	<.010	.040	.030	.050	--	253
AUG												
23...	<.20	.04	--	.010	--	.200	<.010	.020	.050	.070	--	251

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	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)
DEC											
15...	2	<1	E1.5	13	<1	20	<1.0	<.8	<1	<1	E10
JAN											
06...	5	<1	<2.0	5	<1	36	<1.0	<.8	<1	1	<10
MAY											
24...	1	<1	<2.0	13	<1	26	<1.0	E.6	<1	<1	<10
AUG											
23...	2	<1	E1.5	21	<1	25	<1.0	<.8	<1	<1	<10

09444000 SAN FRANCISCO RIVER NEAR GLENWOOD, NM--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	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)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS) (01003)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD) (01028)
DEC											
15...	<1	16	<.3	<1	<1	<2.4	<3	<1	1	--	--
JAN											
06...	<1	5	<.3	<1	<1	<2.4	<3	<1	2	<1	<.1
MAY											
24...	<1	17	<.3	<1	<1	<2.4	<3	<1	2	--	--
AUG											
23...	<1	31	<.3	<1	<1	<2.4	<3	<1	2	--	--

DATE	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01029)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO) (01038)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU) (01043)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE) (01170)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB) (01052)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G) (01053)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG) (71921)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN) (01093)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC											
15...	--	--	--	--	--	--	--	--	3	19	95
JAN											
06...	4.7	5.5	10	6800	7.5	270	<.01	20	<1	48	75
MAY											
24...	--	--	--	--	--	--	--	--	3	25	52
AUG											
23...	--	--	--	--	--	--	--	--	3	132	79

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 2000 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-	08-18-00	8.26	5,700	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-	08-18-00	0.68	74	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-	08-18-00	9.43	500	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-	08-18-00 07-06-99	1.98 [h]2.41	25	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-	- -00 08-03-99	<6.39 [h]6.70	<145 [h]210	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-	08-18-00 [h]04-30-99	3.01 [h]3.25	250 [h]355	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-	08-18-00	2.07	330	09-11-65	12.00	14,100

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum Date	Gage height (ft)	Discharge (ft^3/s)	Period of record maximum 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-	- -00 06-12-99	--- [h]7.98	(m) [h]440	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 mile east of Newkirk. Drainage area is 55.0 mi^2.	1954-95[g] 1999-	- -00 [h]11-29-99	--- [h]2.39	(m) [h]410	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 miles southwest of Tucumcari. Drainage area is 15.2 mi^2.	1971-96[g] 1999-	- -00 - -99	<2.93 ---	<10 [h](m)	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 a34.0 mi^2.	1957-96[g] 1999-	- -00	<3.52	<275	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 a68 mi^2.	1954-	07-02-00	4.59	570	08-11-81	[n]7.11	n1,800
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-	- -00 - -99	--- ---	(m) [h](m)	07-16-58	12.70	1,170
Tramperos Creek near Stead. (07227200)	Lat 36°04'15", long 103°12'10", in NW1/2NW1/2 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 a556 mi^2.	1966-73* 1974-	05-26-00 05-01-99	5.82 [h]8.12	500 [h]1,550	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 a42.0 mi^2.	1953-96[g] 1999-	- -00	<2.43	<320	10-16-95	5.59	3,500
			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-	12-04-99	3.22	380	07-24-72	---	8,000

Station name and number	Location and drainage area	Period of record	Water year 2000 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-	07-17-00 09-01-99	4.89 [h]4.61	540 [h]500	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-	06-27-00	6.45	90	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-	06-28-00	2.66	40	07-21-78	6.34	3,030
Bland Canyon near Cochiti Pueblo. (08313400)	Lat 35°42'11", long 106°24'56", Sandoval County, Hydrologic Unit 13020201, 200 ft south of Forest Service Road, 0.3 mi inside Santa Fe National Forest, and 7.5 mi north of Cochiti Pueblo. Drainage area is 7.57 mi^2.	1962-	06-28-00	2.01	33	[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-	- - 00 - - 99	--- [h]---	(k) [h](m)	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-	- - 00	---	(m)	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-	08-17-00	2.02	1,400	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-	08-17-00	0.88	13	07-20-71	1.33	44

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum Date	Gage height (ft)	Dis-charge (ft^3/s)	Period of record maximum Date	Gage height (ft)	Dis-charge (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-	- - 00	<1.83	<250	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-	07-11-00	1.32	104	[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-	- - 00 [h]- - 99	<4.26 <8.54	<60 [h]<1200	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-	- - 00 - - 99	--- [h]---	(k) [h](m)	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-	07-11-00	2.75	1,200	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-	08-09-00	2.65	250	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-	- -00	---	(k)	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-	06-27-00	2.51	71	08-13-64	14.04	10,800

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum Date	Gage height (ft)	Dis-charge (ft^3/s)	Period of record maximum Date	Gage height (ft)	Dis-charge (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-	- - 00	---	(k)	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-	06-27-00	3.49	350	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-	- - 00 08-02-99 07-27-98 - - 97 07-10-96	<4.89 [h]5.92 [h]5.79 [h]<4.89 [h]7.68	<327 [h]720 [h]650 [h]<340 1910	[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-	- - 00	---	(k)	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-	- - 00	---	(k)	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-	06-05-00	0.22	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", De Baca County, Hydrologic Unit 13060003, at abandoned bridge 1 mi downstream from State Highway 20, and 14.5 mi south of Fort Sumner. Drainage area is 242 mi^2.	1937-95[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-	- - 00	---	(k)	09-06-61	5.10	1,610

Station name and number	Location and drainage area	Period of record	Water year 2000 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-	06-27-00	5.62	1,250	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-	06-18-00	3.87	30	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-	06-21-00	<2.64	<10	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-	06-21-00	5.75	210	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-	- - 00	---	(k)	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-	- - 00	---	(k)	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-	06-19-00	4.66	1,150	05-30-65	13.70	16,400
Antelope Draw near Jal. (08436000)	Lat 32°09'18", long 103°21'51", Lea County, Hydrologic Unit 13070007, 0.4 mi south of State Highway 128, and 10.7 mi west of Jal. Drainage area is a20 mi^2.	1963-96[g] 1999-	- - 00	<3.98	<290	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-	03-07-00	1.44	250	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 2000 maximum Date	Gage height (ft)	Dis-charge (ft^3/s)	Period of record maximum Date	Gage height (ft)	Dis-charge (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-	- - 00	---	(k)	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-	07-01-00	6.92	840	[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-	06-27-00	8.20	290	08-04-67	7.30	222
			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-	08-09-00	3.91	1,460	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-	- - 00	---	(k)	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-	- - 00	---	(k)	08-12-61	2.39	551
Indian Creek near Three Rivers. (08480700)	Lat 33°22'10", long 105°53'25", Otero County, Hydrologic Unit 13050003, 150 ft upstream from diversion dam, and 12 mi east of Three Rivers. Drainage area is 6.8 mi^2.	1956-58* 1959-96[g] 1999-	03-22-00	5.40	120	07-14-91	12.08	3,000
			ESTANCIA BASIN					
Juan Tomas Canyon near Edgewood. (08488100)	Lat 35°04'35", long 106°13'46", Santa Fe County, Hydrologic Unit 13050001, 140 ft upstream from culvert on Interstate Highway 40, 2.5 mi northwest of Edgewood. Drainage area is a20 mi^2.	1962-96[g] 1999-	- - 00 07-05-99	--- 1.60	(k) [h](+)	08-01-89	2.48	150

Annual maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum Date	Gage height (ft)	Discharge (ft^3/s)	Period of record maximum Date	Gage height (ft)	Discharge (ft^3/s)
			ESTANCIA BASIN--Continued					
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-	- - 00 - - 93	<1.16 <1.16	<24 [h]<24	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-	08-17-00	3.55	9	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-	- - 00	---	(k)	- - -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-	07-11-00	3.72	1.0	07-16-66	5.73	900
			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-	- - 00	<4.19	<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-	- - 00	---	(k)	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-	03-29-00 [h]07----99	5.25 [h]<3.67	560	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-	03-29-00	14.09	185	06-29-81	10.87	725

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum Date	Gage height (ft)	Dis-charge (ft^3/s)	Period of record maximum Date	Gage height (ft)	Dis-charge (ft^3/s)
		SAN JUAN RIVER BASIN--Continued						
Chaco Wash at Chaco Culture National Monument. (09367680)	Lat 36°01'43", long 107°55'04", San Juan County, Hydrologic Unit 14080106, on downstream side of center bridge pier, 800 ft downstream from Fajada Wash, and 0.5 mi southwest of Chaco Culture National Historical Park Visitors Center. Drainage area is 578 mi^2.	1976-90* 1991-	03-29-00	4.13	560	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-	01-21-99	5.14	2,250	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-	09-18-00 07-05-99	1.24 0.75	60 [h]31	09-13-93	2.44	295
		LITTLE COLORADO RIVER BASIN						
Largo Creek near Quemado. (09386100)	Lat 34°19'25", long 108°31'40", Catron County, Hydrologic Unit 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-	- - 00	<1.64	<170	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 a19 mi^2.	1957-95[g] 1999-	- -00	---	(k)	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-	- - 00	---	(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 a228 mi^2.	1957-	- - 00	---	(k)	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-	06-29-00	3.27	41	09-07-90	5.04	1,400

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum Date	Gage height (ft)	Discharge (ft^3/s)	Period of record maximum Date	Gage height (ft)	Discharge (ft^3/s)
			GILA RIVER BASIN--Continued					
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-	06-29-00	5.69	1,250	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-	08-30-00	2.18	21	10-02-83	4.35	264
Trout Creek at Luna. (09442660)	Lat 33°50'50", long 108°59'38", Catron County, Hydrologic Unit 15040004, 500 ft downstream from bridge on Luna-Red Hill Road, and 2.6 mi north of Luna. Drainage area is 31.9 mi^2.	1954-95[g] 1999-	- - 00	<.98	<27	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-	08-30-00	1.90	74	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-	06-29-00	3.35	185	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.

Measurements of streamflow at points other than gaging stations are given in the following table.

Discharge Measurements Made at Miscellaneous Sites during Water Year 1999

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 New Kirk.	---	1997-	12-07-99	0.161
					03-28-00	0.011
					05-23-00	206
					05-23-00	239
		RIO GRANDE BASIN				
Lea Lake Drain 08394018	Pecos River	Lat 33°18'56", long 104°19'56", in SW¼SE¼SW¼ sec. 34, T. 11 S., R. 26 Chaves County, Hydrologic Unit 13060007, on downstream side of road crossing at Bottomless Lakes State Park near Roswell.	---	1976-	10-14-99	5.88
					01-04-00	6.67
					01-24-00	7.26
					04-05-00	3.65
					07-19-00	5.43
Castle Springs 08405490	Black River	Lat 32°11'59", long 104°15'13", in SW¼SW¼SW¼ sec. 24, T. 24 S., R. 26 E., Eddy County, Hydrologic Unit 13060011, upstream from mouth at Black River Village, 7.2 mi east of Whites City.	---	1975-	12-19-99	0.850
					01-07-00	1.27
					04-14-00	1.09
					07-17-00	0.688
		GILA RIVER BASIN				
Mangas Creek 09431100	Gila River	Lat 32°50'48", long 108°30'57", in NW¼NE¼ sec. 8, T. 17 S., R. 16 W., Grant County, Hydrologic Unit 15040002, 0.4 mi northwest of Mangas Springs.	177	1970	01-06-00	4.45
					03-02-00	4.13
					07-06-00	4.06

East Drain Seepage Investigation

REACH.--The East Drain seepage investigation was conducted along the 11.5 mile reach from the head of the drain near Vado, New Mexico, to the mouth of the drain at the Rio Grande levee road near Anthony, Texas (315807106361910). Drain miles are referenced upstream from the mouth of the drain, which is designated as drain mile 0.0.

PREVIOUS INVESTIGATIONS.--February 16-17, 1999 and August 24-25, 1999.

DATE.--February 15-16, 2000 and August 22-23, 2000.

WEATHER.--Weather was favorable with no precipitation during the seepage investigation on February 15-16, 2000. The average daily temperature at La Union, New Mexico was 15 degrees Celsius on February 15 and 14 degrees Celsius on February 16, 2000, with a low of 1 degree Celsius on February 16 and a high of 27 degrees Celsius on February 15. Weather was favorable with no precipitation during the seepage investigation on August 22-23, 2000. The average daily temperature at La Union, New Mexico was 27 degrees Celsius on August 22 and 28 degrees Celsius on August 23, 2000, with a low of 17 degrees Celsius on August 22 and a high of 36 degrees Celsius on August 22.

STREAMFLOW.--The seepage investigation on February 15-16, 2000, was conducted during the non-irrigation season. Discharge measurements indicate a net seepage gain of 2.11 ft^3/s from drain mile 11.5 to drain mile 0.0. The seepage investigation on August 22-23, 2000, was conducted during the irrigation season. Discharge measurements indicate a net seepage gain of 9.8 ft^3/s from drain mile 11.5 to drain mile 0.0. 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 15-16, 2000, is rated good from drain mile 11.5 to drain mile 3.8. The seepage investigation is rated fair from drain mile 3.8 to drain mile 0.0 based upon unsteady wastewater inflows (drain mile 3.8 and 1.6). Time dependant discharge measurements using the Lagrangian method were conducted along the downstream reach starting at drain mile 3.8 to account for unsteady wastewater inflows. Individual discharge measurements were rated good (within 5 percent) to fair (within 8 percent) throughout the stream reach.

The seepage investigation conducted on August 22-23, 2000, is rated good from drain mile 11.5 to drain mile 5.2. The seepage investigation is rated poor from drain mile 5.2 to drain mile 0.0 based upon unsteady inflows. 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 (over 8 percent) at Spillway 23B (drain mile 1.1) and Spillway 23A (drain mile 0.0). Accuracy of discharge measurements needs to be considered when evaluating indicated gains and losses. Discharge measurements at the spillway inlets were conducted by the Elephant Butte Irrigation District and the El Paso County Water Improvement District No. 1. The special cooperation and assistance by the local irrigation districts is gratefully acknowledged.

							Discharge, in ft^3/s		
Drain mile	Stream	Location	Date	Time	Water temperature (°C)	Specific conductance (mS/cm)	Main stream	Inflow	Gain or loss
11.5	East Drain	At head near Vado, NM	02-15-00	0755	--	--	1/0	--	--
		Lat 32°07'13", long 106°39'57"	08-22-00	0825	--	--	1/0	--	--
11.2	East Drain	At County Road B20, Vado, NM	02-15-00	0805	11.0	2,670	2/0	--	0
		Lat 32°06'57", long 106°39'47"	08-22-00	0850	19.0	2,380	2/0.43	--	+0.43
8.8	Mesquite Drain Inlet	Near Berino, NM	02-15-00	0850	9.5	2,870	--	1.10	--
		Lat 32°05'03", long 106°38'43"	08-22-00	0945	21.5	1,440	--	12.5	--
8.0	East Drain	Above NM226 near Berino, NM	02-15-00	0940	12.0	2,810	1.78	--	+0.68
		Lat 32°04'32", long 106°38'22"	08-22-00	1050	22.0	1,620	15.3	--	+2.37
6.5	Spillway 20A Inlet	At Kilgore Lateral near Berino, NM	02-15-00	--	--	--	--	1/0	--
		Lat 32°03'25", long 106°37'44"	08-22-00	1000	--	--	--	1/0	--
5.7	Spillway 20B Inlet	At Bullock Lateral near Berino, NM	02-15-00	--	--	--	--	1/0	--
		Lat 32°02'47", long 106°37'33"	08-22-00	1045	--	730	--	0.98	--
5.2	East Drain	At County Road A62 near Berino, NM	02-15-00	1500	18.5	3,080	2.76	--	+0.98
		Lat 32°02'24", long 106°37'20"	08-22-00	1435	27.0	1,790	23.4	--	+7.12
3.8	Wastewater Inflow	Anthony Plant, Water and Sanitation	02-16-00	0500	17.5	2,470	--	4/0.19	--
		District, Anthony, NM	08-23-00	0500	28.5	2,490	--	4/0.90	--
		Lat 32°01'16", long 106°36'52"							
3.0	Spillway 22 Inlet	At Anthony Lateral near Anthony, TX	02-16-00	--	--	--	--	1/0	--
		Lat 32°00'36", long 106°36'45"	08-23-00	1045	--	750	--	0.045	--
2.5	East Drain	Near State Line at Anthony, NM	02-16-00	0805	7.5	3,170	3.00	--	+0.05
		Lat 32°00'07", long 106°36'32"	08-23-00	0705	21.0	1,920	22.0	--	-2.34

Drain mile	Stream	Location	Date	Time	Water temperature (°C)	Specific conductance (mS/cm)	Discharge, in ft^3/s Main stream	Inflow	Gain or loss
1.6	Wastewater Inflow	Anthony Plant, Town of Anthony, TX Lat 31°59′24″, long 106°36′42″	02-16-00	1050	17.0	1,110	--	4/0.45	--
			08-23-00	0847	24.5	1,230	--	4/0.35	--
	Inflow								
1.1	Spillway 23B Inlet	At Detention Farm Lateral near Anthony, TX Lat 31°59′00″, long 106°36′33″	02-16-00	--	--	--	--	1/0	--
			08-23-00	1250	25.0	740	--	3/0.8	--
0.9	Anthony Drain Inlet	Near Anthony, TX Lat 31°58′50″, long 106°36′28″	02-16-00	1200	14.5	2,040	--	0.70	--
			08-23-00	0935	21.0	2,550	--	5.66	--
0.9	East Drain	At EPCWID Gage near Anthony, TX Lat 31°58′50″, long 106°36′27″	02-16-00	1310	15.0	2,680	5.05	--	+0.90
			08-23-00	0845	21.5	1,920	34.9	--	+6.09
0.0	Spillway 23A Inlet	At Texas Lateral near Anthony, TX Lat 31°58′09″, long 106°36′17″	02-16-00	--	--	--	--	1/0	--
			08-23-00	1200	25.0	740	--	8.27	--
0.0	East Drain	At levee road near Anthony, TX Lat 31°58′07″, long 106°36′19″	02-16-00	1455	17.5	2,710	4.55	--	-0.50
			08-23-00	1115	23.0	1,620	39.3	--	-3.87

1/ Dry
2/ No flow; ponded
3/ Estimated discharge
4/ Reported discharge

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

315807106361910 EAST SIDE DRAIN AT LEVEE ROAD NEAR ANTHONY, TX

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
FEB												
16...	1445	4.6	660	183	15.0	8.7	2710	26.0	17.5	310	--	78.6
AUG												
23...	1110	39	666	94	7.0	8.3	1620	29.0	23.0	260	2	70.6

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
FEB												
16...	27.1	41.2	12	481	425	356	393	20	349	1.7	26.4	503
AUG												
23...	20.5	18.5	6	224	291	258	315	0	173	1.0	23.8	289

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY (NTU) (00076)	BORON, DIS-SOLVED (UG/L AS B) (01020)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)
FEB												
16...	1.0	.042	2.34	.027	.559	.488	.619	1770	1730	16	585	.28
AUG												
23...	.92	.042	.918	.023	.074	.061	.270	1020	980	70	284	.32

RIO GRANDE BASIN

320007106363210 EAST DRAIN NEAR STATE LINE AT ANTHONY, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
FEB												
16...	0800	3.0	665	82	8.5	8.4	3170	8.5	7.5	310	74.3	30.8
AUG												
23...	0630	22	664	81	6.2	8.2	1920	23.0	21.0	280	75.9	22.6

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
FEB												
16...	41.8	13	543	387	413	504	0	418	1.5	26.3	561	.83
AUG												
23...	24.5	7	288	334	304	371	0	220	1.2	26.3	330	.92

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY (NTU) (00076)	BORON, DIS-SOLVED (UG/L AS B) (01020)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)
FEB											
16...	.098	.518	.031	.150	.126	.185	1940	1950	7.9	625	.36
AUG											
23...	.047	1.30	.028	.086	.052	.269	1210	1180	79	357	.39

RIO GRANDE BASIN

320224106372010 EAST DRAIN AT COUNTY ROAD A62 NEAR BERINO, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
FEB												
15...	1510	2.8	662	168	13.5	8.5	3080	25.0	18.5	320	75.2	31.2
AUG												
22...	1430	23	662	117	8.0	8.2	1790	32.5	27.0	260	68.9	20.4

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
FEB												
15...	43.0	13	531	401	406	464	16	419	1.5	22.5	549	.69
AUG												
22...	23.0	7	264	300	271	330	0	203	1.1	25.3	313	.83

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY (NTU) (00076)	BORON, DIS-SOLVED (UG/L AS B) (01020)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)
FEB											
15...	.063	.644	.046	E.038	.029	.082	1960	1920	14	615	.32
AUG											
22...	.022	1.27	.027	E.041	.034	.196	1130	1090	64	338	.31

RIO GRANDE BASIN

320432106382210 EAST DRAIN ABOVE NM226 NEAR BERINO, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
FEB												
15...	0945	1.8	665	89	8.3	7.9	2810	20.5	12.0	290	69.4	28.6
AUG												
22...	1015	15	664	97	7.3	8.0	1620	28.0	22.0	250	69.4	19.2

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
FEB												
15...	38.0	12	464	357	427	521	0	367	1.4	23.1	488	.93
AUG												
22...	21.9	6	231	311	288	351	0	163	1.2	24.6	279	.90

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	TUR-BID-ITY (NTU) (00076)	BORON, DIS-SOLVED (UG/L AS B) (01020)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)
FEB											
15...	.185	1.18	.094	.054	.046	.146	1730	1740	12	559	.27
AUG											
22...	.079	1.81	.039	.055	.045	.232	1010	991	73	318	.31

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 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 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JUL 30...	1030	.78	659	117	6.8	8.1	57800	26.5	24.0	5700	5600	1060

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
JUL 30...	729	199	72	12500	67	63	77	0	19900	3.4	3.1	6180

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)
JUL 30...	2.0	2.1	.534	2.31	.332	.031	.018	.102	42600	40600	<450	294

DATE	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)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	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)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
JUL 30...	<20.0	<10	90	100	1380	1150	2.53	<1.4	2.1	<8.0	<10	<13

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
JUL 30...	15	<300	<460	<10	<10	1800	1730	200	249	<.2	<.3	<24.0

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	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)
JUL 30...	23	<10	<10	22400	22100	<600	<465	<.04	<.03	<.05	<.03

TULAROSA VALLEY BASIN

331158106265710 SALT CREEK NEAR NW-50 ON WSMR, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
MAY												
22...	1430	.14	656	218	11.6	9.2	43000	35.0	32.5	6000	6000	1060
JUL												
30...	1130	.68	660	153	8.8	9.5	36000	30.0	30.0	3200	3200	722

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
MAY												
22...	814	303	66	11800	46	36	24	17300	6.5	2.3	7340	1.1
JUL												
30...	333	148	58	7550	38	34	20	11300	2.4	1.2	4360	1.3

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)
MAY												
22...	1.4	.121	<.050	<.010	.016	<.010	.064	39400	38700	<375	591	<8.0
JUL												
30...	1.3	.078	<.050	<.010	.011	.015	.066	25400	24500	<375	<280	<20.0

DATE	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)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	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)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)
MAY												
22...	<10	64	66.5	1860	1790	4.01	<1.4	<1.1	<10.0	29	<13	17
JUL												
30...	5	176	168	1140	1110	1.44	<1.4	<1.1	<8.0	<10	<13	<12

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
MAY											
22...	<250	<20	<10	<10	3270	2970	21	11	<.2	<.3	<9.6
JUL											
30...	<250	<310	<10	<10	1850	1720	12	3	<.2	<.3	<24.0

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	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)
MAY											
22...	<10	<10	<10	31800	33500	<500	<31	<.04	<.03	<.05	<.03
JUL											
30...	6	<10	<10	17000	16200	<500	<310	<.04	<.03	<.05	<.03

TULAROSA VALLEY BASIN

331715106183301 MALPAIS SPRING NEAR OSCURA, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
JUL 26...	1430	1.3	652	71	5.8	7.3	6450	38.0	16.5	2300	2300	700

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
JUL 26...	137	6.8	6	614	50	54	66	0	1040	.3	29.4	1770

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)
JUL 26...	E.10	.11	.042	3.14	<.010	<.006	<.010	E.006	4860	4360	19	<84

DATE	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)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	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)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
JUL 26...	2.3	E2	11	12.3	208	207	.44	<.1	<.1	<3.2	2	<1

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
JUL 26...	2	<30	<90	<1	<1	46.7	40.5	<2	<3	<.2	<.3	6.7

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	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)
JUL 26...	5	<1	<1	11400	11200	E11	<93	<.04	<.03	<.05	<.03

TULAROSA VALLEY BASIN

332057106211310 SALT CREEK 4 AT RANGE ROAD 7 ON WSMR, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
MAY												
23...	1330	.33	648	235	15.0	7.7	28000	34.5	24.5	3900	3700	981
JUL												
30...	1330	.14	656	112	6.9	7.6	34800	34.0	26.0	4100	3900	1020

DATE	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)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
MAY												
23...	344	137	44	6240	162	153	187	0	10800	5.9	26.7	3310
JUL												
30...	367	126	47	6890	171	167	204	0	11200	5.2	26.5	3160

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	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)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)
MAY												
23...	.31	.52	.043	<.050	<.010	E.005	<.010	.018	23000	21900	<240	65
JUL												
30...	.38	.36	.113	<.050	<.010	.010	<.010	.029	24400	23000	<375	<280

DATE	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)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	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)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
MAY												
23...	3.7	4	27	14.8	720	672	2.47	<1.4	<1.1	<10.0	<10	<13
JUL												
30...	<20.0	<10	49	50.2	885	695	2.37	<1.4	<1.1	<8.0	<10	<13

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
MAY												
23...	<12	<160	<20	<10	<10	1720	786	268	254	<.2	<.3	3.8
JUL												
30...	<12	<250	<310	<10	<10	1660	1560	310	304	<.2	<.3	<24.0

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	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)
MAY											
23...	7	<10	<10	20600	10600	<320	<31	<.04	<.03	<.05	<.03
JUL											
30...	8	<10	<10	21700	20300	<500	<310	<.04	<.03	<.05	<.03

TULAROSA VALLEY BASIN

332535106170501 MOUND SPRING (UPPER POND) NEAR OSCURA, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	OXYGEN, DISSOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	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)
JUL 25...	1045	649	86	4.8	7.8	54500	32.0	26.0	2400	2400	722	154

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM ADSORPTION RATIO (00931)	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)	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
JUL 25...	4.6	3	392	72	74	91	0	777	.4	28.3	2110	.27

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	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)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC DISSOLVED (UG/L AS AS) (01000)
JUL 25...	.47	.049	<.050	<.010	<.006	<.010	E.007	4480	4240	<15	<84	E1.2

DATE	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)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	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)	COPPER, DISSOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)
JUL 25...	<3	9	8.6	241	203	.34	<.1	<.1	5.4	2	2	2

DATE	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)	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)
JUL 25...	<30	<90	<1	<1	60.3	45.5	3	<3	<.2	<.3	3.3

DATE	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)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	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)
JUL 25...	E2	<1	<1	10100	9600	<20	<93	<.04	<.03	<.05	<.03

BERNALILLO COUNTY
Albuquerque Area

350256106390801. Local number, 10N.03E.32.314.
LOCATION.--Lat 35°02'56", long 106°39'08", 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 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.42	36.68	35.71	34.78	35.28	37.02	35.04	38.25	38.96	40.02	41.43	40.55
10	38.73	36.39	35.72	34.49	34.53	37.05	35.28	38.88	39.86	40.52	42.19	41.70
15	39.49	35.69	35.35	36.16	34.73	37.12	37.03	38.74	40.72	40.82	42.18	42.02
20	36.83	36.26	35.83	36.19	36.49	36.25	36.95	39.12	39.52	40.71	41.61	40.07
25	36.55	35.61	35.85	36.49	36.36	35.94	37.70	39.44	40.43	40.28	41.30	39.70
EOM	36.39	35.33	35.62	35.45	35.00	35.29	38.24	38.52	40.38	40.39	41.35	40.01

WTR YEAR 2000 HIGHEST 34.49 JAN 10-11 LOWEST 42.47 AUG 7

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., P.V.C. piezometer set at 980 ft., casing is screened from 870 to 1,050 ft.
INSTRUMENTATION.--Monthly steel-tape measurements.
DATUM.--Elevation of land-surface datum is 4,995 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in. P.V.C., 1.80 ft, above land-surface datum.
PERIOD OF RECORD.--1982 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.29 ft below land-surface datum, Feb. 22, 1984; lowest measured, 46.68 ft below land-surface datum, Aug. 16, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 29	44.39	DEC 30	43.67	FEB 28	43.18	JUN 02	45.15				
NOV 30	44.16	FEB 07	43.69	APR 05	43.60	AUG 16	46.68				

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 4	NO ACCESS	AUG 15	NO ACCESS

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05	37.20	DEC 06	32.50	FEB 04	30.90	APR 14	34.6	JUN 15	39.2	AUG 15	41.8
15	37.00	15	32.00	15	30.90	25	36.0	26	39.7	25	42.5
25	35.70	23	31.70	MAR 06	31.4	MAY 05	36.3	JUL 05	39.5	SEP 05	41.75
NOV 05	34.40	JAN 05	31.00	15	32.8	15	36.6	14	40.45	15	41.6
15	33.60	14	30.90	24	33.0	25	39.3	25	41.7	25	40.4
24	33.20	25	30.80	APR 05	33.7	JUN 05	38.4	AUG 04	42.6		

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 31	169.78	AUG 15	NOT MEASURED

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 31	15.22	AUG 16	PUMPING

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 31	64.94	AUG 16	68.97

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 3,539 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.30 ft above land-surface datum.
REMARKS.--Rcords good.
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 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	68.09	27.58	14.69	8.81	12.68	35.43	80.48	99.85	118.60	97.71	133.58	105.90
10	49.91	21.85	12.61	7.82	18.22	48.46	90.11	91.03	127.28	113.74	131.70	101.13
15	52.35	22.91	12.06	10.64	16.94	68.38	96.21	96.78	132.65	124.29	120.12	91.73
20	38.05	19.55	10.63	13.45	17.04	68.03	101.48	113.15	108.42	140.32	121.07	83.39
25	35.50	17.78	9.41	11.98	28.13	82.66	97.67	124.35	119.03	142.52	114.51	73.57
EOM	28.96	18.11	10.13	8.49	29.86	95.08	98.50	135.66	118.74	134.25	108.98	77.45

WTR YEAR 2000 HIGHEST 7.43 JAN 9 LOWEST 149.62 JUL 25

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 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	100.73	100.70	100.56	100.21	99.90	99.67	99.43	99.43	100.03	100.23	100.75	100.70
10	100.79	100.63	100.37	100.16	99.85	99.71	99.41	99.67	100.00	100.25	100.96	100.82
15	100.64	100.58	100.42	100.14	99.86	99.57	99.39	99.77	99.90	100.25	100.96	100.86
20	100.75	100.46	100.38	100.10	99.81	99.52	99.51	99.86	100.06	100.31	100.84	100.88
25	100.73	100.49	100.40	100.03	99.78	99.59	99.46	99.82	100.13	100.32	100.77	100.95
EOM	100.69	100.51	100.25	99.94	99.78	99.57	99.52	99.96	100.17	100.60	100.74	100.92

WTR YEAR 2000 HIGHEST 99.32 APR 14 LOWEST 101.16 SEP 24-25

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 07	89.78	AUG 15	94.31

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, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05	69.81	DEC 06	7.31	FEB 04	7.88	APR 02	91.91	JUN 05	152.58	AUG 04	159.31
15	60.11	15	4.99	15	15.24	14	120.91	15	169.01	15	147.10
25	34.56	23	2.02	25	24.48	25	134.57	26	155.18	25	146.36
NOV 05	23.08	JAN 05	.85	MAR 06	38.05	MAY 05	127.58	JUL 05	125.26	SEP 05	127.87
15	17.67	14	4.11	15	80.99	15	120.29	14	144.95	15	113.31
24	14.00	25	7.46	24	94.67	25	167.60	25	176.30	25	89.41

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 1	NOT MEASURED	AUG 16	NOT MEASURED

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 07	16.73	AUG 15	16.98

33404104221201. 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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 7	NOT MEASURED	AUG 16	285.33

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 29	29.57	AUG 07	29.69

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 29	24.90	AUG 07	29.49

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 29	79.53	AUG 07	82.82

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 29	101.65	AUG 07	108.08

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 29	85.77	AUG 07	86.23

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 25	7.60	JUL 21	8.43

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, Sep. 2, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	137.35	JUL 14	137.70

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 good.
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, 285.29 ft below land-surface datum, Sept. 2, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	276.45	275.97	276.03	275.25	275.19	275.77	276.99	277.45	279.47	280.55	282.92	284.94
10	276.59	275.91	275.67	275.40	275.09	276.43	276.80	277.26	279.48	280.40	283.37	284.58
15	276.04	275.85	275.84	275.74	275.39	277.10	276.66	277.64	279.54	280.78	283.73	284.41
20	276.11	275.69	275.81	275.66	275.34	277.67	277.32	277.90	280.20	281.37	283.98	284.28
25	276.04	275.70	275.67	275.61	275.10	277.99	277.40	278.39	280.58	281.85	284.54	284.10
EOM	276.05	275.71	275.40	275.29	275.32	277.58	277.59	278.82	280.46	282.64	285.07	283.65

WTR YEAR 2000 HIGHEST 275.01 FEB 17 LOWEST 285.29 SEP 2

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.
REMARKS.--"V" indicates foreign substance was present on surface of water.
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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 08	291.14 V	JUL 31	304.47

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, 360.65 ft below land-surface datum, Feb. 8, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 08	360.65	JUL 31	360.44

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.--Recorder installed Aug. 1988. Lost record due to recorder malfunction.
PERIOD OF RECORD.--Jan. 1980 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 295.74 ft above land-surface datum, Apr. 23, 2000; lowest measured, 309.92 ft below land-surface datum, Jan. 9, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	296.27	---	---	296.04	---	296.14	296.02	296.13	296.10	296.03	296.15
10	---	296.24	---	---	295.95	---	295.98	295.96	296.00	296.03	296.14	296.03
15	296.08	296.23	---	---	---	---	295.83	296.01	295.75	295.93	296.22	296.13
20	296.31	296.11	---	---	---	---	296.11	296.08	295.97	296.06	296.01	295.84
25	296.28	---	---	---	---	---	296.24	296.01	296.08	295.98	296.01	296.28
EOM	296.38	---	---	---	---	296.27	295.88	296.07	296.00	296.12	296.04	295.89

WTR YEAR 2000 HIGHEST 295.74 APR 23 LOWEST 296.71 APR 8-9

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, 455.06 ft below land-surface datum, July 31, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 07	454.66	JUL 31	455.06

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.
REMARKS.--"X" indicates affected by surface water.
PERIOD OF RECORD.--Apr. 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.67 ft below land-surface datum, July 23, 1993; lowest measured, 25.57 ft below land-surface datum, Apr. 25, 1957.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 03	12.32	JUL 25	10.81 X

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, 68.24 ft below land-surface datum, Sept. 25, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	67.41	67.46	67.47	67.34	67.33	67.17	67.22	67.31	67.71	67.76	67.85	68.04
10	67.44	67.45	67.39	67.34	67.24	67.23	67.21	67.37	67.68	67.75	67.90	68.03
15	67.43	67.48	67.45	67.41	67.23	67.18	67.16	67.47	67.68	67.75	67.95	68.11
20	67.50	67.43	67.38	67.31	67.27	67.11	67.26	67.54	67.75	67.75	67.94	68.06
25	67.48	67.47	67.44	67.30	67.20	67.25	67.25	67.54	67.77	67.77	67.97	68.17
EOM	67.50	67.55	67.35	67.30	67.23	67.16	67.28	67.61	67.71	67.82	67.98	68.13

WTR YEAR 2000 HIGHEST 67.11 MAR 20 LOWEST 68.24 SEP 25

DONA ANA COUNTY--Continued
Tularosa Basin

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 03	20.48	JUL 25	19.53

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 07	56.70	AUG 17	66.27

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, 65.90 ft below land-surface datum, Aug. 10, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13	62.27	FEB 07	61.54	APR 10	63.89	JUN 07	64.62	AUG 10	65.90		
JAN 10	61.66	MAR 10	62.34	MAY 05	63.94	JUL 21	65.11				

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 10	104.83	AUG 17	121.26

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.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 17	533.91	AUG 17	535.24

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 good.
PERIOD OF RECORD.--June 1961 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.57 ft below land-surface datum, Feb. 20, 1989; lowest measured, 209.15 ft below land-surface datum, July 31-Aug. 2, 1966.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	125.06	100.60	90.67	82.28	79.00	87.75	118.41	125.62	135.72	125.58	162.13	155.37
10	119.79	99.71	88.75	81.75	79.05	91.84	123.94	124.14	136.56	133.86	161.59	152.52
15	115.62	97.56	87.67	82.40	79.10	97.70	128.66	126.46	141.93	143.93	161.00	154.39
20	110.48	95.63	86.15	81.35	79.52	104.41	131.08	137.06	143.51	153.45	164.98	151.54
25	106.80	94.21	84.94	81.13	82.19	108.60	133.86	145.23	140.25	158.09	164.06	147.09
EOM	102.88	92.68	83.53	78.63	84.48	115.78	129.53	144.53	138.69	161.79	161.29	140.40

WTR YEAR 2000 HIGHEST 78.04 FEB 3 LOWEST 166.85 AUG 23-24

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. Lost 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, 142.88 ft below land-surface datum, Sept. 4, 5, 1998.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	136.23	131.74	127.70	---	121.44	120.59	125.53	130.78	134.98	135.95	138.38	141.20
10	135.81	130.95	---	---	121.01	121.12	126.55	131.33	135.00	135.91	138.91	141.44
15	134.85	130.15	---	123.04	120.85	121.50	127.43	131.85	135.15	136.17	139.38	141.69
20	134.29	129.34	---	122.63	120.58	122.20	128.70	132.66	135.52	136.74	139.71	141.72
25	133.48	128.76	---	122.21	120.35	123.53	129.38	133.23	135.97	137.16	140.25	141.83
EOM	132.52	128.19	---	121.75	120.53	124.64	130.08	134.26	136.27	137.96	140.72	141.43

WTR YEAR 2000 HIGHEST 120.27 FEB 24 LOWEST 142.10 SEP 24-25

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, 126.14 ft below land-surface datum, July 14, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07	125.94	NOV 29	126.20	FEB 02	126.11	APR 07	125.45	JUN 07	126.07	AUG 11	126.13
NOV 08	126.05	JAN 10	126.02	MAR 10	126.04	MAY 09	125.99	JUL 14	126.14	SEP 06	126.24

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, 35.20 ft below land-surface datum, Feb. 10, 2000; lowest measured, 124.00 ft below land-surface datum, Jan. 9, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 10	35.20	AUG 15	PUMPING

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 10	31.78	AUG 15	33.37

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 3,121.84 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 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.17	22.60	22.70	22.67	22.93	23.16	23.29	23.53	23.69	23.36	23.68	23.80
10	23.14	22.54	22.58	22.71	22.95	23.30	23.34	23.57	23.73	23.49	23.61	23.78
15	22.95	22.55	22.72	22.86	23.04	23.28	23.41	23.78	23.58	23.46	23.76	23.93
20	22.74	22.47	22.68	22.88	23.19	23.26	23.52	23.69	23.40	23.42	23.72	23.83
25	22.59	22.56	22.78	22.90	23.04	23.36	23.48	23.74	23.49	23.32	23.71	23.82
EOM	22.58	22.66	22.65	22.85	23.13	23.42	23.44	23.79	23.33	23.69	23.59	23.82

WTR YEAR 2000 HIGHEST 22.44 NOV 21 LOWEST 24.05 SEP 17

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 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	94.01	93.32	93.23	93.40	93.65	93.83	94.02	94.17	94.43	93.97	94.37	94.32
10	93.94	93.30	93.24	93.40	93.63	93.92	94.05	94.23	94.37	94.10	94.30	94.41
15	93.86	93.27	93.25	93.55	93.64	93.97	94.08	94.42	94.35	94.18	94.33	94.51
20	93.69	93.18	93.27	93.55	93.78	93.96	94.20	94.47	94.29	94.11	94.37	94.51
25	93.44	93.24	93.41	93.57	93.75	93.99	94.14	94.43	94.12	94.02	94.39	94.46
EOM	93.34	93.31	93.34	93.59	93.77	93.99	94.15	94.47	94.13	94.20	94.30	94.48

WTR YEAR 2000 HIGHEST 93.14 NOV 22 LOWEST 94.55 SEP 17-18

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 3,225 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.40 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--July 1942 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 131.50 ft below land-surface datum, Oct. 14, 1942; lowest measured, 214.82 ft below land-surface datum, Sept. 15, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	156.45	151.90	147.48	145.44	144.85	145.11	148.74	157.21	161.35	158.96	163.05	162.27
10	156.17	150.96	146.87	145.25	144.62	145.54	149.65	158.70	160.72	159.57	162.95	161.57
15	155.19	150.07	146.73	145.24	144.70	146.47	151.49	159.56	160.31	159.27	162.41	161.06
20	154.37	149.11	146.35	145.06	145.10	146.99	153.58	159.91	160.25	159.76	161.99	160.20
25	153.45	148.51	146.29	144.95	144.87	147.74	154.63	160.01	159.82	160.31	162.15	160.70
EOM	152.30	148.04	145.67	144.81	145.23	148.11	156.01	161.01	159.41	162.14	162.58	160.43

WTR YEAR 2000 HIGHEST 144.54 FEB 12 LOWEST 163.12 AUG 7

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 10	29.79	AUG 18	31.52

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, 60.92 ft below land-surface datum, Jan. 13, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 10	56.31	AUG 18	59.21

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 10	58.34	AUG 14	59.86

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 10	47.26	AUG 14	48.61

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 10	360.27	JAN 19	360.27	JUL 07	359.28

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, 299.46 ft below land-surface datum, Sept. 25, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	296.14	297.14	297.45	296.21	297.54	298.01	298.05	298.22	298.52	298.57	298.85	299.15
10	296.69	297.26	296.94	297.35	297.40	297.97	297.98	298.20	298.39	298.67	298.93	299.11
15	297.06	297.27	297.23	297.47	298.08	297.76	297.93	298.30	298.31	298.67	299.01	299.20
20	296.80	297.40	296.82	297.30	298.58	297.47	298.26	298.35	298.54	298.69	298.92	299.02
25	297.00	297.35	296.87	297.30	298.62	298.12	298.24	298.23	298.55	298.72	299.02	299.34
EOM	296.98	297.34	296.28	297.46	298.45	297.92	298.20	298.30	298.59	298.84	299.06	299.16

WTR YEAR 2000 HIGHEST 296.12 OCT 4 LOWEST 299.46 SEP 25

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 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	346.03	346.99	347.78	348.36	349.12	349.77	350.55	---	352.28	352.64	351.75	352.54
10	346.23	347.15	347.84	348.43	349.20	350.04	350.63	---	352.32	352.69	351.91	352.62
15	346.29	347.31	348.03	348.63	349.38	350.14	350.74	351.82	352.38	352.42	352.06	352.85
20	346.54	347.35	348.14	348.74	349.54	350.19	350.98	351.92	352.62	352.05	352.13	352.98
25	346.68	347.45	348.22	348.85	349.56	350.43	351.06	352.02	352.71	351.65	352.19	353.15
EOM	346.86	347.67	348.28	348.99	349.99	350.49	---	352.17	352.91	351.28	352.30	353.24

WTR YEAR 2000 HIGHEST 345.84 OCT 1 LOWEST 353.93 SEP 30

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 24	49.50	JUL 20	50.40

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 12	11.30	JUL 07	11.32

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 12	166.52	JUL 10	167.09

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.
REMARKS.--"S" indicates nearby well pumping.
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, 181.44S ft below land-surface datum, July 7, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 12	109.30	JULY 10	NOT MEASURED

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 12	53.90	JULY 10	NOT MEASURED

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 11	187.52	JULY 10	NOT MEASURED

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, 132.09 ft below land-surface datum, July 9, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 10	130.90	JUL 07	130.13

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 10	121.73	JUL 07	121.49

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 13	47.34	JUL 10	46.44

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 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	60.33	60.30	60.31	60.25	60.22	60.19	60.16	60.14	60.13	60.15	60.15	60.11
10	60.32	60.29	60.29	60.25	60.22	60.20	60.16	60.12	60.14	60.15	60.16	60.11
15	60.30	60.29	60.30	60.25	60.22	60.19	60.16	60.12	60.13	60.14	60.15	60.10
20	60.30	60.28	60.30	60.22	60.21	60.17	60.16	60.13	60.14	60.13	60.14	60.11
25	60.30	60.28	60.29	60.23	60.19	60.18	60.14	60.12	60.15	60.14	60.12	60.10
EOM	60.28	60.29	60.26	60.22	60.21	60.17	60.15	60.13	60.15	60.15	60.11	60.09

WTR YEAR 2000 HIGHEST 60.09 SEP 21-22, 30 LOWEST 60.37 DEC 14

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 06	32.34	AUG 01	32.50

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 06	44.10	AUG 01	44.06

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 06	71.90	AUG 01	70.85

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 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	57.64	57.65	57.55	57.38	57.29	57.27	57.19	57.28	57.54	57.55	57.55	57.55
10	57.65	57.65	57.46	57.36	57.27	57.28	57.20	57.30	57.56	57.53	57.57	57.54
15	57.64	57.64	57.50	57.35	57.28	57.25	57.19	57.36	57.55	57.52	57.54	57.55
20	57.68	57.59	57.46	57.33	57.29	57.22	57.26	57.39	57.59	57.49	57.55	57.51
25	57.66	57.58	57.46	57.30	57.28	57.25	57.27	57.42	57.59	57.47	57.55	57.58
EOM	57.65	57.56	57.41	57.28	57.28	57.21	57.28	57.47	57.59	57.55	57.54	57.57

WTR YEAR 2000 HIGHEST 57.19 APR 5-6, 14-15 LOWEST 57.70 OCT 19-20

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, 78.64 ft below land-surface datum, Jan. 3, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 04	75.12	AUG 01	77.26 S

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 04	70.75	AUG 01	NOT MEASURED

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, 72.73 ft below land-surface datum, Aug. 1, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 04	71.73	AUG 01	72.73

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, 35.49 ft below land-surface datum, Jan. 9, 1997; lowest measured, 69.77 ft below land-surface datum, Nov. 28, 1956.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 07	34.68	AUG 17	35.30

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 7	NOT MEASURED	AUG 17	NOT MEASURED

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 18	208.08	JUL 12	211.29

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 4,330 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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	104.18	DEC 02	102.72	JAN 24	102.83	AUG 23	106.15	SEP 06	107.03

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 14	173.32	JUL 11	178.59

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 14	19.75	JUL 12	20.99

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 14	81.37	JUL 12	89.39

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, 222.52 ft below land-surface datum, July 2, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 14	NOT MEASURED	JULY 12	NOT MEASURED

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 14	87.75	JUL 11	97.51

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, 47.26 ft below land-surface datum, Aug. 11, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 14	39.59	JUL 11	41.66

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 14	DRY	JULY 11	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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 29	98.24	AUG 07	101.43

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 29	246.27	JUL 19	257.07

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 29	128.84	JUL 19	126.90

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 29	240.05	JUL 19	240.68

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 29	124.20	JUL 19	124.25

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 29	94.19	JUL 26	102.41

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 11	NOT MEASURED	AUG 29	95.62

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.
REMARKS.--"R" indicates well recently pumped.
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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 11	60.80 R	AUG 29	75.77

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 10	54.00	AUG 29	NOT MEASURED

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 07	NOT MEASURED	JUL 31	74.82

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 7	PUMPING	JULY 31	PUMPING

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 07	118.69	JUL 31	119.58

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 24	43.00	JUL 20	70.15

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 25	90.94	JUL 20	91.10

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 25	161.75	JUL 20	160.90

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, 68.56 ft below land-surface datum, Sept. 21, 28-30, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	68.46	68.48	68.49	---	---	68.46	68.46	68.48	68.50	68.53	68.49	68.52
10	68.47	68.48	68.48	---	68.44	68.47	68.47	68.48	68.50	68.50	68.50	68.52
15	68.47	68.47	68.47	---	68.45	68.46	68.47	68.48	68.49	68.50	68.50	68.52
20	68.48	68.46	---	---	68.45	68.46	68.47	68.50	68.51	68.50	68.50	68.51
25	68.48	68.47	---	---	68.46	68.47	68.47	68.47	68.50	68.50	68.50	68.52
EOM	68.47	68.46	---	---	68.46	68.48	68.49	68.49	68.52	68.52	68.52	68.54

WTR YEAR 2000 HIGHEST 68.44 OCT 1 LOWEST 68.56 SEP 21, 28-30

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, 92.65 ft below land-surface datum, Aug. 1, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 08	86.32	AUG 01	92.65

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 8	DRY	AUG 1	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.
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, 92.98 ft below land-surface datum, Mar. 4, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 8	PUMPING	AUG 1	PUMPING

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.--Recorder installed June 2, 1992. Record 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, 140.32 ft below land-surface datum, Sept. 20, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	131.11	130.96	130.35	129.75	129.20	129.35	128.95	129.88	133.93	131.11	136.23	137.45
10	131.10	130.87	130.17	129.60	129.11	129.98	131.58	129.97	130.53	134.14	136.75	139.14
15	130.97	131.89	130.09	129.49	129.09	129.11	---	131.88	131.20	134.47	137.26	139.41
20	130.89	130.64	130.07	129.39	131.47	128.86	---	132.62	131.09	134.83	137.80	139.78
25	130.87	130.45	129.94	129.43	129.37	128.81	---	130.53	131.53	135.04	138.26	134.40
EOM	130.91	130.44	129.75	129.30	129.23	131.00	---	133.87	131.76	135.70	138.60	133.63

WTR YEAR 2000 HIGHEST 128.71 MAR 30 LOWEST 140.32 SEP 20

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 13	92.54	AUG 01	94.64

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 26	23.98	AUG 16	23.38

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 28	10.31	JUL 18	11.10

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 28	27.15	JUL 18	29.66

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, 14.69 ft below land-surface datum, July 18, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 28	13.70	JUL 18	14.69

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, 36.86 ft below land-surface datum, July 2, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 28	36.30	JUL 18	34.86

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, 58.20 ft below land-surface datum, July 18, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 28	55.65	JUL 18	58.20

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, 61.89 ft below land-surface datum, July 18, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 28	60.02	JUL 18	61.89

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 17	10.15	JUL 19	8.85

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, 173.31 ft below land-surface datum, July 19, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 17	172.05	JUL 19	173.31

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 15	16.82	MAR 29	24.20	AUG 30	30.98

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, 87.08 ft below land-surface datum, Mar. 29, 2000; lowest measured, 97.37 ft below land-surface datum, Dec. 15, 1999.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 15	97.37	MAR 29	87.08	AUG 30	92.80

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 10	154.24	JUL 11	PUMPING

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 11	123.24	SEP 07	134.90

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, 143.70 ft below land-surface datum, July 11, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 10	143.04	JUL 11	143.70

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 01	258.07	JUL 06	264.20

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, 131.24 ft below land-surface datum, Sept. 20, 24, 25, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	130.93	130.94	130.89	130.89	130.93	130.98	131.04	131.05	131.11
10	---	---	---	130.92	130.94	130.98	130.92	130.90	131.03	131.06	131.08	131.12
15	---	---	---	130.96	130.97	130.90	130.92	130.95	130.96	131.03	131.08	131.11
20	---	---	---	130.91	130.92	130.88	130.95	130.96	131.02	131.06	131.09	131.15
25	---	---	---	130.96	130.97	130.95	130.93	130.94	131.03	131.07	131.08	131.11
EOM	---	---	---	130.94	130.97	130.94	131.00	130.98	131.05	131.09	131.13	131.12

WTR YEAR 2000 HIGHEST 130.85 MAR 19 LOWEST 131.24 SEP 20, 24-25

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, 231.72 ft below land-surface datum, July 6, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 01	231.33	JUL 06	231.72

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 6,848 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing 2.70 ft below land-surface datum.
REMARKS.--"R" indicates well pumped recently.
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, 240.30R ft below land-surface datum, Feb. 21, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 01	236.72	JUL 06	238.99

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, 89.26 ft below land-surface datum, May 13, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	88.84	88.73	88.98	88.78	88.92	88.69	88.82	88.93	88.13	88.35	88.57	88.73
10	89.07	88.94	88.79	88.82	88.84	88.83	88.83	88.97	88.03	88.40	88.63	88.71
15	88.57	89.01	88.94	88.96	88.89	88.73	88.74	89.09	88.02	88.42	88.69	88.82
20	88.25	88.83	88.82	88.87	88.91	88.58	89.00	88.28	88.21	88.52	88.61	88.71
25	88.14	88.89	89.01	88.86	88.74	88.93	88.99	87.96	88.30	88.52	88.60	88.86
EOM	88.12	89.04	88.83	88.84	88.82	88.77	88.89	87.93	88.28	88.59	88.59	88.85

WTR YEAR 2000 HIGHEST 87.93 MAY 31 LOWEST 89.26 MAY 13

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, 213.30 ft below land-surface datum, Sept. 30, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	192.22	194.80	197.84	200.12	202.64	204.26	205.61	207.17	207.43	207.59	209.43	211.51
10	192.70	195.65	198.36	200.65	202.85	204.42	205.76	207.58	207.39	207.90	209.91	211.91
15	192.06	196.06	198.66	201.11	203.21	204.70	205.98	207.91	207.53	208.19	210.33	212.30
20	191.26	196.48	199.11	201.45	203.52	204.91	206.34	206.22	207.46	208.29	210.64	212.52
25	191.89	196.90	199.54	201.79	203.69	205.15	206.66	206.34	207.45	208.68	210.87	212.79
EOM	192.83	197.45	199.95	202.19	203.98	205.33	206.93	207.03	207.50	209.08	211.33	213.19

WTR YEAR 2000 HIGHEST 190.75 OCT 1 LOWEST 213.30 SEP 30

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, 348.93 ft below land-surface datum, Sept. 30, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	298.55	301.65	273.76	272.98	274.04	275.50	275.57	276.59	333.96	341.76	344.69	345.89
10	279.64	284.38	273.82	272.98	274.53	275.26	276.07	274.91	336.17	342.11	345.11	346.81
15	274.88	278.45	273.54	273.15	274.56	275.69	276.29	273.57	337.83	342.63	345.60	347.54
20	292.16	276.25	273.56	273.72	274.59	275.99	276.41	282.10	339.25	343.18	345.96	347.91
25	302.73	274.90	273.18	273.95	275.12	275.16	276.56	316.06	340.38	343.67	346.29	348.50
EOM	301.55	273.91	273.34	274.09	275.11	275.44	276.74	329.57	341.29	344.28	346.29	348.91

WTR YEAR 2000 HIGHEST 272.07 JAN 6 LOWEST 348.93 SEP 30

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 good.
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 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	505.57	515.63	514.42	512.33	405.04	371.13	340.49	384.43	435.68	465.22	477.04	487.63
10	507.77	515.83	514.80	460.81	398.85	365.47	335.82	---	441.63	469.21	479.30	490.33
15	509.57	518.38	512.51	443.90	393.20	364.60	331.14	405.64	447.32	469.89	481.55	492.64
20	510.53	516.98	511.24	436.96	389.55	361.06	326.90	414.01	453.64	472.07	473.15	494.17
25	512.72	517.37	511.94	422.72	386.91	352.96	322.79	421.25	458.15	473.71	480.30	495.60
EOM	513.79	514.62	515.20	412.83	378.64	345.95	366.14	429.16	456.62	474.65	481.33	496.66

WTR YEAR 2000 HIGHEST 321.57 APR 27 LOWEST 519.10 NOV 24

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, 227.02 ft below land-surface datum, Sept. 25, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	224.43	224.89	225.29	225.44	223.64	221.11	219.22	222.47	224.77	225.42	226.01	226.52
10	224.52	224.90	225.02	225.80	223.13	220.98	218.86	223.04	224.75	225.53	226.13	226.50
15	224.40	225.02	225.31	225.57	222.70	220.29	218.49	223.60	224.88	225.64	226.24	226.71
20	224.63	224.94	225.26	225.01	222.46	219.80	218.42	223.92	225.09	225.76	226.37	226.52
25	224.73	225.06	225.59	224.50	221.74	220.13	218.10	224.06	225.27	225.79	226.40	226.83
EOM	224.86	225.23	225.40	223.90	221.59	219.49	221.01	224.36	225.28	226.00	226.35	226.81

WTR YEAR 2000 HIGHEST 217.67 APR 27 LOWEST 227.02 SEP 25

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 04	47.16	JUL 25	48.21

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, 44.36 ft below land-surface datum, Mar. 11, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 04	38.11	JUL 25	42.17

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 23	23.56	JUL 25	23.08

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.
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 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	68.88	68.86	68.92	68.85	68.91	68.86	68.95	69.05	69.19	69.11	69.10	69.12
10	68.92	68.88	68.82	68.85	68.88	68.97	68.96	69.01	69.12	69.12	69.14	69.09
15	68.81	68.88	68.93	68.93	68.92	68.90	68.92	69.08	69.08	69.10	69.17	69.12
20	68.90	68.80	68.86	68.88	68.95	68.84	69.07	69.14	69.14	69.10	69.12	69.05
25	68.90	68.85	68.95	68.88	68.83	68.99	69.08	69.06	69.17	69.10	69.12	69.15
EOM	68.89	68.93	68.85	68.87	68.88	68.94	69.04	69.10	69.15	69.11	69.09	69.11

WTR YEAR 2000 HIGHEST 68.75 NOV 21 LOWEST 69.22 JUN 2, 26

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 7,620 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.--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 1999 TO SEPTEMBER 2000
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	184.60	184.56	184.39	184.12	184.29	183.83	184.11	184.19	184.62	184.46	184.56	184.56
10	184.67	184.52	184.04	184.10	184.06	184.10	184.06	183.95	184.34	184.54	184.64	184.47
15	184.31	184.50	184.43	184.44	184.17	183.93	183.84	184.29	184.19	184.53	184.82	184.63
20	184.70	184.14	184.17	184.25	184.31	183.62	184.32	184.36	184.41	184.56	184.66	184.29
25	184.64	184.27	184.59	184.19	183.78	184.21	184.33	184.08	184.48	184.60	184.63	184.67
EOM	184.59	184.46	184.17	184.15	183.92	184.04	184.19	184.31	184.50	184.72	184.47	184.54

WTR YEAR 2000 HIGHEST 183.62 MAR 20 LOWEST 184.89 AUG 14-15

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30	NO ACCESS	JULY 14	NO ACCESS

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, 100.39 ft below land-surface datum, Aug. 24, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 10	97.59	JUL 11	PUMPING

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 11	127.82	JUL 11	135.70

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.
PERIOD OF RECORD.--Feb. 1947 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.22 ft below land-surface datum, Feb. 18, 1947; lowest measured, 84.64 ft below land-surface datum, July 27, 1992.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 11	87.28	JUL 11	PUMPING

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, 28.65 ft below land-surface datum, July 13, 1994.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 11	20.80	JUL 11	28.43

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, 69.38 ft below land-surface datum, July 20, 1998.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 12	57.69	JUL 11	67.54

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 25	151.09	JUL 20	150.61

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 25	102.90	JUL 21	103.51

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 25	94.78	JUL 21	94.62

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, 97.94 ft below land-surface datum, July 21, 2000.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 25	97.22	JUL 21	97.94

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 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 25	33.64	JUL 21	34.03

EXPLANATION OF GEOLOGIC UNIT (AQUIFER) CODES (LISTED FROM YOUNGEST TO OLDEST AGE) U-UPPER, M-MIDDLE, L-LOWER:
110 AVMB-Cenozoic, Quaternary, Alluvium, Bolson Deposits and other Surface Deposits
112 SNTF-CENOZOIC, Pleistocene, Santa Fe Formation
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 1999 TO SEPTEMBER 2000

DONA ANA COUNTY

LOCAL IDENT-I-FIER	STATION NUMBER	COUNTY	SITE	DATE	TIME	GEO-LOGIC UNIT	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
21S.04E.10.233	322947106311101	013	GW	01-21-00	1620	400PCMB	622	4
				04-20-00	1045	400PCMB	--	--
				07-12-00	1220	400PCMB	625	9
21S.04E.10.322A	322943106312301	013	GW	10-25-99	1430	400PCMB	--	--
				01-20-00	1105	400PCMB	--	--
				04-19-00	1045	400PCMB	--	--
				07-12-00	1010	400PCMB	--	--
21S.04E.10.322B	322943106312101	013	GW	10-03-99	0920	400PCMB	626	88
				10-26-99	1830	400PCMB	628	38
21S.04E.10.324	322935106311801	013	GW	01-21-00	1750	400PCMB	622	46
				04-19-00	1430	400PCMB	--	--
				07-13-00	1000	400PCMB	627	15
21S.04E.10.411B	322941106311301	013	GW	10-26-99	0930	400PCMB	--	--
				01-20-00	1505	400PCMB	--	--
				04-21-00	1020	400PCMB	--	--
				07-12-00	1250	400PCMB	--	--
21S.04E.10.411C	322941106311502	013	GW	10-26-99	1140	400PCMB	--	--
				01-20-00	1630	400PCMB	--	--
				04-20-00	1515	400PCMB	--	--
				07-12-00	1445	400PCMB	--	--
21S.04E.10.411D	322939106311701	013	GW	10-26-99	1330	400PCMB	--	--
				01-20-00	1345	400PCMB	--	--
				04-19-00	1230	400PCMB	--	--
				07-12-00	1145	400PCMB	--	--
21S.04E.10.411E	322943106311401	013	GW	10-26-99	1515	400PCMB	--	--
				01-21-00	1450	400PCMB	--	--
				04-21-00	0945	400PCMB	--	--
				07-13-00	1130	400PCMB	--	--
21S.04E.10.411F	322942106311801	013	GW	10-05-99	0920	400PCMB	629	75
21S.04E.10.411G	322944106311601	013	GW	10-24-99	1525	400PCMB	629	41
				01-22-00	1200	400PCMB	622	32
				04-20-00	1015	400PCMB	--	--
				07-12-00	1030	400PCMB	625	7
21S.04E.10.412	322943106310501	013	GW	01-21-00	1340	400PCMB	623	33
				04-21-00	1230	400PCMB	--	--
				07-12-00	1345	400PCMB	626	10
21S.04E.10.413A	322938106311601	013	GW	10-26-99	1030	400PCMB	--	--
				01-20-00	1220	400PCMB	--	--
				04-21-00	1120	400PCMB	--	--
				07-13-00	1030	400PCMB	--	--
21S.04E.10.413B	322933106310901	013	GW	01-22-00	1550	400PCMB	622	26
				04-19-00	1030	400PCMB	--	--
				07-13-00	1105	400PCMB	629	17
21S.04E.10.414A	322938106310801	013	GW	10-27-99	0945	400PCMB	--	--
				01-20-00	1015	400PCMB	--	--
				04-21-00	1330	400PCMB	--	--
				07-12-00	1600	400PCMB	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	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)
21S.04E.10.233	01-21-00	.3	7.2	960	18.6	390	108	29.0	3.3
	04-20-00	.8	7.5	997	18.5	400	110	29.3	2.8
	07-12-00	.6	7.3	1010	20.1	400	115	27.6	2.2
21S.04E.10.322A	10-25-99	4.7	7.3	1000	18.6	420	118	29.6	1.3
	01-20-00	--	6.7	916	19.2	390	111	28.3	1.4
	04-19-00	2.6	7.1	973	19.3	410	116	29.2	1.3
	07-12-00	2.7	7.2	985	19.8	400	111	29.5	1.3
21S.04E.10.322B	10-03-99	6.5	7.5	828	20.1	340	95.3	24.4	1.7
	10-26-99	2.7	7.2	915	21.7	420	116	30.7	1.5
21S.04E.10.324	01-21-00	3.5	7.1	675	18.6	270	76.6	18.4	2.9
	04-19-00	1.3	7.3	698	20.0	270	75.8	18.8	2.7
	07-13-00	1.1	7.2	707	20.4	270	76.5	18.9	2.6
21S.04E.10.411B	10-26-99	5.3	7.3	1030	19.6	430	120	32.2	1.0
	01-20-00	--	7.3	893	19.1	380	106	28.3	1.1
	04-21-00	5.8	7.2	960	19.3	380	104	28.9	1.0
	07-12-00	5.3	7.2	963	20.8	390	106	29.4	1.0
21S.04E.10.411C	10-26-99	4.9	7.4	1010	19.8	370	103	27.4	1.2
	01-20-00	--	7.3	865	18.5	360	100	26.9	1.4
	04-20-00	4.5	7.6	915	19.7	370	103	27.5	1.3
	07-12-00	4.9	7.3	925	20.5	370	101	28.0	1.2
21S.04E.10.411D	10-26-99	5.0	7.3	953	20.1	360	99.2	26.1	1.4
	01-20-00	--	7.2	825	19.1	340	93.5	26.4	1.3
	04-19-00	5.8	7.3	877	19.6	340	91.8	26.8	1.4
	07-12-00	5.5	7.3	896	20.3	340	93.7	26.3	1.2
21S.04E.10.411E	10-26-99	5.4	7.3	1080	19.6	400	112	28.1	1.0
	01-21-00	6.6	7.4	957	18.9	390	111	27.8	1.0
	04-21-00	4.7	7.3	1010	19.2	400	112	28.2	1.1
	07-13-00	5.4	7.2	1020	19.7	400	112	28.6	1.0
21S.04E.10.411F	10-05-99	5.6	7.1	907	19.9	380	106	28.8	.9
21S.04E.10.411G	10-24-99	2.9	7.1	979	22.1	470	138	30.9	1.0
	01-22-00	2.4	7.1	917	18.8	310	88.1	20.8	1.1
	04-20-00	.8	7.1	974	19.5	340	96.3	23.0	1.2
	07-12-00	.5	7.3	1010	20.1	380	111	23.6	1.2
21S.04E.10.412	01-21-00	2.5	7.2	922	19.1	360	102	25.3	3.0
	04-21-00	.9	7.3	965	19.7	380	108	25.6	3.4
	07-12-00	.7	7.4	973	20.3	360	104	23.8	2.6
21S.04E.10.413A	10-26-99	5.1	7.6	982	19.8	390	109	29.5	1.6
	01-20-00	--	7.1	818	19.4	350	96.6	25.5	1.5
	04-21-00	5.9	7.3	876	19.6	340	92.2	26.1	1.5
	07-13-00	6.2	7.3	879	20.1	350	96.1	26.7	1.4
21S.04E.10.413B	01-22-00	2.0	7.4	910	18.3	310	89.0	21.4	2.0
	04-19-00	.8	7.3	887	19.5	330	93.4	23.6	1.9
	07-13-00	1.3	7.3	902	20.0	350	97.0	24.9	1.7
21S.04E.10.414A	10-27-99	5.9	7.7	1000	19.6	400	118	25.8	1.5
	01-20-00	5.1	7.4	935	18.9	380	111	25.7	1.5
	04-21-00	5.3	7.5	984	19.7	380	110	26.1	1.5
	07-12-00	5.6	7.4	996	20.1	390	110	27.4	1.3

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	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)	ANC BICAR-BONATE IT FIELD MG/L AS HCO3 (00450)	ANC CAR-BONATE IT FIELD MG/L AS CO3 (00447)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
21S.04E.10.233	01-21-00	64.6	258	--	--	--	36.4	3.9
	04-20-00	66.2	264	--	--	--	35.0	5.3
	07-12-00	60.5	246	260	317	0	35.9	5.6
21S.04E.10.322A	10-25-99	62.2	267	--	--	--	30.7	5.6
	01-20-00	61.6	272	--	--	--	31.7	3.7
	04-19-00	62.5	275	--	--	--	32.1	4.1
	07-12-00	58.9	262	--	--	--	30.9	5.8
21S.04E.10.322B	10-03-99	55.0	210	--	--	--	24.6	4.0
	10-26-99	63.2	252	--	--	--	28.9	3.9
21S.04E.10.324	01-21-00	44.0	204	--	--	--	24.1	4.8
	04-19-00	44.9	211	--	--	--	23.2	5.0
	07-13-00	46.9	211	206	251	0	23.2	7.2
21S.04E.10.411B	10-26-99	64.9	254	--	--	--	31.3	4.9
	01-20-00	58.7	258	--	--	--	30.9	4.5
	04-21-00	59.1	257	--	--	--	30.2	5.0
	07-12-00	53.9	257	--	--	--	30.8	6.7
21S.04E.10.411C	10-26-99	57.6	189	--	--	--	29.1	4.9
	01-20-00	56.4	249	--	--	--	29.7	4.5
	04-20-00	57.6	248	--	--	--	30.9	4.7
	07-12-00	55.1	242	--	--	--	28.3	6.7
21S.04E.10.411D	10-26-99	53.3	169	--	--	--	31.7	4.4
	01-20-00	54.3	228	--	--	--	31.9	4.1
	04-19-00	55.4	226	--	--	--	31.9	4.4
	07-12-00	54.3	225	--	--	--	33.9	6.0
21S.04E.10.411E	10-26-99	67.6	189	--	--	--	45.3	5.4
	01-21-00	62.5	246	--	--	--	43.5	4.6
	04-21-00	63.0	244	--	--	--	43.0	5.5
	07-13-00	60.5	244	--	--	--	44.8	5.5
21S.04E.10.411F	10-05-99	58.4	229	--	--	--	27.0	4.9
21S.04E.10.411G	10-24-99	71.4	221	--	--	--	32.2	4.1
	01-22-00	84.6	244	--	--	--	28.6	5.1
	04-20-00	88.4	264	--	--	--	28.8	4.2
	07-12-00	77.4	277	281	343	0	31.0	6.2
21S.04E.10.412	01-21-00	65.0	229	--	--	--	39.0	3.9
	04-21-00	65.8	237	--	--	--	37.7	4.5
	07-12-00	58.5	237	230	281	0	39.4	5.8
21S.04E.10.413A	10-26-99	57.8	217	--	--	--	34.8	4.4
	01-20-00	51.6	224	--	--	--	33.0	4.1
	04-21-00	53.5	230	--	--	--	33.1	4.4
	07-13-00	53.4	229	--	--	--	34.1	5.1
21S.04E.10.413B	01-22-00	76.4	248	--	--	--	40.2	4.2
	04-19-00	60.5	214	--	--	--	37.2	4.0
	07-13-00	56.0	208	207	253	0	38.9	5.7
21S.04E.10.414A	10-27-99	59.4	195	--	--	--	54.9	6.1
	01-20-00	58.9	199	--	--	--	52.8	4.3
	04-21-00	60.6	216	--	--	--	51.3	5.0
	07-12-00	58.6	201	--	--	--	53.5	6.5

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	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)
21S.04E.10.233	01-21-00	26.8	210	163.00	5692	666	638	49
	04-20-00	27.0	208	163.00	5692	662	643	39
	07-12-00	26.8	210	163.00	5692	630	641	44
21S.04E.10.322A	10-25-99	27.0	197	155.00	5755	652	632	39
	01-20-00	26.1	200	155.00	5755	650	627	40
	04-19-00	25.8	199	155.00	5755	644	635	38
	07-12-00	25.6	200	155.00	5755	651	620	38
21S.04E.10.322B	10-03-99	27.0	151	--	5733	504	509	50
	10-26-99	25.1	175	--	5733	585	597	51
21S.04E.10.324	01-21-00	26.2	108	135.00	5680	449	428	34
	04-19-00	25.9	106	135.00	5680	444	429	29
	07-13-00	25.7	108	135.00	5680	450	432	29
21S.04E.10.411B	10-26-99	27.4	172	85.00	5691	616	607	57
	01-20-00	26.1	170	85.00	5691	632	580	55
	04-21-00	26.7	168	85.00	5691	635	577	56
	07-12-00	27.1	171	85.00	5691	642	580	55
21S.04E.10.411C	10-26-99	26.4	162	80.00	5688	582	525	66
	01-20-00	26.0	161	80.00	5688	607	556	64
	04-20-00	26.2	160	80.00	5688	611	560	62
	07-12-00	26.2	157	80.00	5688	614	549	60
21S.04E.10.411D	10-26-99	25.1	149	110.00	5696	568	493	117
	01-20-00	24.6	150	110.00	5696	579	524	114
	04-19-00	24.2	150	110.00	5696	576	522	112
	07-12-00	24.6	151	110.00	5696	587	527	113
21S.04E.10.411E	10-26-99	25.5	179	100.00	5699	669	578	47
	01-21-00	24.9	179	100.00	5699	670	602	44
	04-21-00	25.6	177	100.00	5699	672	602	40
	07-13-00	25.6	178	100.00	5699	684	603	43
21S.04E.10.411F	10-05-99	27.4	166	--	5713	575	557	53
21S.04E.10.411G	10-24-99	25.4	232	158.00	5723	645	669	47
	01-22-00	27.2	194	158.00	5723	616	597	43
	04-20-00	26.9	199	158.00	5723	646	627	35
	07-12-00	26.6	206	158.00	5723	652	653	40
21S.04E.10.412	01-21-00	22.3	189	120.00	5644	645	588	48
	04-21-00	22.6	188	120.00	5644	627	599	38
	07-12-00	22.4	189	120.00	5644	630	585	40
21S.04E.10.413A	10-26-99	25.1	148	120.00	5690	566	541	44
	01-20-00	25.2	148	120.00	5690	572	521	38
	04-21-00	24.6	146	120.00	5690	568	519	34
	07-13-00	25.3	147	120.00	5690	554	527	37
21S.04E.10.413B	01-22-00	21.8	174	110.00	5619	609	578	43
	04-19-00	21.2	155	110.00	5619	587	526	39
	07-13-00	21.8	153	110.00	5619	593	524	39
21S.04E.10.414A	10-27-99	24.6	166	102.00	5643	611	574	40
	01-20-00	24.6	168	102.00	5643	650	567	38
	04-21-00	24.5	167	102.00	5643	650	576	35
	07-12-00	25.0	167	102.00	5643	670	571	36

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)
21S.04E.10.233	01-21-00	.21	--	<10	19.8	450	--	--
	04-20-00	.25	--	<10	19.6	425	--	--
	07-12-00	.25	--	<10	10.6	391	--	--
21S.04E.10.322A	10-25-99	.27	--	<10	18.5	271	--	--
	01-20-00	.27	--	<10	20.4	278	--	--
	04-19-00	.27	<13	<10	--	279	--	--
	07-12-00	.26	--	<10	23.3	289	--	--
21S.04E.10.322B	10-03-99	.22	--	<10	15.9	286	--	--
	10-26-99	.24	--	200	20.5	343	265	255
21S.04E.10.324	01-21-00	.16	--	E10	21.1	171	--	--
	04-19-00	.17	--	20	20.5	173	--	--
	07-13-00	.17	--	<10	20.2	174	--	--
21S.04E.10.411B	10-26-99	.26	--	<10	11.3	304	--	--
	01-20-00	.28	--	<10	16.3	267	--	--
	04-21-00	.28	--	<10	16.3	273	--	--
	07-12-00	.28	--	<10	18.4	279	--	--
21S.04E.10.411C	10-26-99	.26	--	<10	19.7	275	--	--
	01-20-00	.27	--	<10	14.8	247	--	--
	04-20-00	.27	<13	<10	--	249	--	--
	07-12-00	.25	--	<10	18.9	255	--	--
21S.04E.10.411D	10-26-99	.21	--	<10	12.6	249	--	--
	01-20-00	.22	--	<10	13.0	261	--	--
	04-19-00	.21	--	<10	13.4	268	--	--
	07-12-00	.21	--	<10	12.6	264	--	--
21S.04E.10.411E	10-26-99	.27	--	E10	17.2	282	--	--
	01-21-00	.26	--	<10	16.4	240	--	--
	04-21-00	.26	--	<10	17.2	243	--	--
	07-13-00	.25	--	<10	14.9	254	--	--
21S.04E.10.411F	10-05-99	.24	--	<10	13.0	276	124	--
21S.04E.10.411G	10-24-99	.27	--	50	20.9	280	306	296
	01-22-00	.20	--	50	20.6	246	--	--
	04-20-00	.24	--	360	20.6	257	--	--
	07-12-00	.26	--	580	E24.0	245	--	--
21S.04E.10.412	01-21-00	.25	--	<10	18.2	230	--	--
	04-21-00	.26	--	<10	17.7	233	--	--
	07-12-00	.27	--	<10	16.0	240	--	--
21S.04E.10.413A	10-26-99	.25	--	<10	20.9	241	--	--
	01-20-00	.25	--	<10	16.4	207	--	--
	04-21-00	.25	--	<10	18.2	213	--	--
	07-13-00	.24	--	<10	17.3	223	--	--
21S.04E.10.413B	01-22-00	<.01	--	110	24.0	267	--	--
	04-19-00	.25	--	20	21.0	267	--	--
	07-13-00	.26	--	<10	19.5	282	--	--
21S.04E.10.414A	10-27-99	.27	--	<10	17.6	242	--	--
	01-20-00	.27	--	<10	16.8	248	--	--
	04-21-00	.26	--	<10	19.0	253	--	--
	07-12-00	.27	--	<10	18.3	265	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	COUNTY	SITE	DATE	TIME	GEO-LOGIC UNIT	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)
21S.04E.10.414B	322937106310901	013	GW	10-26-99	1600	400PCMB	--	--	5.5
				01-21-00	1235	400PCMB	--	--	6.2
				04-21-00	1100	400PCMB	--	--	6.2
				07-12-00	1445	400PCMB	--	--	7.2
21S.04E.10.414C	322936106311001	013	GW	10-27-99	1145	400PCMB	--	--	4.6
				01-21-00	1330	400PCMB	--	--	4.8
				04-19-00	1415	400PCMB	--	--	5.9
				07-13-00	1245	400PCMB	--	--	5.4
21S.04E.10.414D	322937106310902	013	GW	10-26-99	1345	400PCMB	--	--	1.9
				01-21-00	1135	400PCMB	--	--	2.9
				04-21-00	1200	400PCMB	--	--	3.6
				07-13-00	0930	400PCMB	--	--	3.5
21S.04E.10.421	322939106305701	013	GW	01-22-00	1500	400PCMB	--	--	5.9
				04-20-00	1150	400PCMB	--	--	7.2
				07-14-00	1215	400PCMB	630	93	6.7
21S.04E.10.422	322940106305101	013	GW	01-21-00	1150	400PCMB	627	15	1.1
				04-19-00	1630	400PCMB	--	--	.3
				07-12-00	1520	400PCMB	628	7	.5
21S.04E.10.423	322935106310301	013	GW	10-27-99	1110	400PCMB	--	--	5.9
				01-22-00	1710	400PCMB	--	--	5.7
				04-19-00	1615	400PCMB	--	--	6.0
				07-13-00	1330	400PCMB	--	--	6.2
21S.04E.10.434	322924106310501	013	GW	01-22-00	1710	400PCMB	625	67	5.1
				04-19-00	1220	400PCMB	--	--	5.2
				07-13-00	1200	400PCMB	630	66	5.0
21S.04E.10.441	322932106305601	013	GW	10-27-99	0920	400PCMB	--	--	6.4
				01-22-00	1610	400PCMB	--	--	5.5
				04-19-00	1730	400PCMB	--	--	7.0
				07-13-00	1430	400PCMB	--	--	6.8
21S.04E.10.442	322927106305101	013	GW	01-20-00	1650	400PCMB	629	80	6.0
				04-20-00	1300	400PCMB	--	--	1.2
				07-12-00	1800	400PCMB	627	9	.6
21S.04E.11.333	322923106304601	013	GW	01-20-00	1340	400PCMB	633	82	6.2
				04-21-00	1350	400PCMB	--	--	3.9
				07-12-00	1640	400PCMB	628	53	3.9
21S.04E.14.114	322910106303601	013	GW	10-27-99	1345	400PCMB	--	--	--
				01-21-00	1550	400PCMB	--	--	7.8
				04-20-00	1610	400PCMB	--	--	4.6
				07-14-00	1155	400PCMB	--	--	6.0
21S.04E.22.222	322310106305101	013	GW	07-14-00	1350	400PCMB	637	16	1.2
21S.04E.23.233A	322801106300801	013	GW	10-27-99	1420	400PCMB	--	--	--
				01-28-00	1150	400PCMB	--	--	6.5
				04-20-00	1650	400PCMB	--	--	4.5
				07-14-00	1235	400PCMB	--	--	7.5
21S.04E.23.233B	322804106301701	013	GW	01-22-00	1105	400PCMB	--	--	5.9
				04-20-00	1415	400PCMB	--	--	5.8
				07-13-00	1400	400PCMB	640	88	6.3

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	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, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
21S.04E.10.414B	10-26-99	7.7	1140	20.0	410	118	27.9	1.0	64.3	207
	01-21-00	7.7	955	19.0	390	113	26.5	1.0	60.8	226
	04-21-00	7.6	1000	19.2	390	113	26.9	1.0	62.0	225
	07-12-00	7.5	1010	20.4	400	115	27.3	.9	60.4	223
21S.04E.10.414C	10-27-99	7.4	1020	20.0	410	119	27.3	1.3	61.1	212
	01-21-00	7.5	938	19.2	380	109	26.4	1.4	59.2	212
	04-19-00	7.4	982	19.6	380	109	26.9	1.4	61.2	213
	07-13-00	7.3	996	19.9	370	112	23.3	1.1	52.3	213
21S.04E.10.414D	10-26-99	7.5	1180	20.4	410	120	26.2	2.1	70.3	209
	01-21-00	7.4	965	19.3	370	106	25.8	1.9	68.3	203
	04-21-00	7.4	1010	19.8	380	109	26.1	1.7	67.9	214
	07-13-00	7.2	1020	20.0	380	109	26.4	1.7	69.4	214
21S.04E.10.421	01-22-00	7.9	819	18.9	320	88.9	23.7	1.3	55.6	178
	04-20-00	7.4	900	20.7	350	97.9	26.6	1.2	59.9	225
	07-14-00	7.5	949	21.8	360	98.6	27.2	1.2	57.8	230
21S.04E.10.422	01-21-00	7.2	913	19.5	350	100	25.1	4.5	66.3	228
	04-19-00	7.4	942	20.3	350	97.7	25.3	4.9	68.4	253
	07-12-00	7.5	949	21.4	350	100	24.8	3.9	64.1	250
21S.04E.10.423	10-27-99	7.4	1030	19.9	410	122	25.9	1.4	58.9	187
	01-22-00	7.7	968	19.0	380	110	25.5	1.5	58.0	188
	04-19-00	7.4	982	19.8	390	112	26.1	1.4	59.2	185
	07-13-00	7.3	998	20.4	390	112	26.0	1.5	56.2	186
21S.04E.10.434	01-22-00	7.1	819	18.4	320	92.6	21.5	1.9	51.1	221
	04-19-00	7.3	837	18.9	320	91.5	22.0	1.9	52.9	231
	07-13-00	7.2	852	19.6	320	92.3	22.4	1.7	52.2	220
21S.04E.10.441	10-27-99	7.4	873	19.8	330	96.2	21.1	1.1	55.6	187
	01-22-00	7.7	818	19.4	310	90.1	20.7	1.2	54.7	215
	04-19-00	7.4	742	19.9	310	90.6	21.1	1.2	56.1	193
	07-13-00	7.3	850	20.4	320	91.9	20.9	1.1	52.5	191
21S.04E.10.442	01-20-00	7.3	699	19.7	290	80.6	22.0	2.7	40.8	193
	04-20-00	7.6	748	21.2	300	82.9	22.1	2.9	42.0	198
	07-12-00	7.6	766	20.4	310	87.9	21.2	2.7	42.6	205
21S.04E.11.333	01-20-00	7.2	764	19.6	280	80.5	18.5	1.2	61.3	188
	04-21-00	7.3	832	20.3	300	87.0	19.8	1.2	59.0	189
	07-12-00	7.4	836	20.8	310	90.3	19.4	1.0	55.8	190
21S.04E.14.114	10-27-99	7.3	748	20.5	340	98.7	22.1	.8	60.5	230
	01-21-00	7.5	748	18.9	290	85.0	19.4	.8	55.5	228
	04-20-00	7.5	794	20.2	290	84.9	19.9	.9	56.8	228
	07-14-00	7.3	812	20.6	300	89.8	17.7	.7	50.5	226
21S.04E.22.222	07-14-00	7.1	798	20.8	290	89.5	15.9	1.6	51.9	192
21S.04E.23.233A	10-27-99	7.4	660	21.5	290	92.0	14.0	1.7	52.5	181
	01-28-00	6.8	683	18.6	260	80.3	13.4	1.9	50.6	181
	04-20-00	7.3	725	21.0	270	83.9	13.6	1.8	51.5	179
	07-14-00	7.4	745	21.5	260	81.9	13.9	1.6	49.3	179
21S.04E.23.233B	01-22-00	7.5	714	19.1	260	80.5	13.4	1.7	50.1	183
	04-20-00	7.2	723	21.9	260	81.1	13.5	1.8	51.4	181
	07-13-00	7.2	730	22.8	260	81.0	13.8	1.7	52.2	181

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)	ANC BICAR-BONATE IT FIELD MG/L AS HCO3 (00450)	ANC CAR-BONATE IT FIELD MG/L AS CO3 (00447)	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)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
21S.04E.10.414B	10-26-99	--	--	--	52.0	6.5	25.7	168	103.00	5641
	01-21-00	--	--	--	49.6	4.5	24.7	169	103.00	5641
	04-21-00	--	--	--	48.2	4.3	24.6	167	103.00	5641
	07-12-00	--	--	--	49.6	5.4	24.8	168	103.00	5641
21S.04E.10.414C	10-27-99	--	--	--	50.1	4.5	24.8	172	110.00	5641
	01-21-00	--	--	--	47.9	4.1	24.1	169	110.00	5641
	04-19-00	--	--	--	48.9	4.7	24.4	169	110.00	5641
	07-13-00	--	--	--	50.3	6.4	24.2	170	110.00	5641
21S.04E.10.414D	10-26-99	--	--	--	54.8	5.7	25.7	185	159.00	5638
	01-21-00	--	--	--	52.2	4.0	25.5	181	159.00	5638
	04-21-00	--	--	--	51.5	4.5	25.1	178	159.00	5638
	07-13-00	--	--	--	52.4	5.2	25.4	176	159.00	5638
21S.04E.10.421	01-22-00	--	--	--	23.4	4.0	23.7	163	200.00	5568
	04-20-00	--	--	--	27.2	4.1	23.7	180	200.00	5568
	07-14-00	234	286	0	29.9	5.6	22.6	184	200.00	5568
21S.04E.10.422	01-21-00	--	--	--	34.8	4.1	24.3	198	200.00	5532
	04-19-00	--	--	--	34.0	3.6	24.6	194	200.00	5532
	07-12-00	243	297	0	36.0	4.6	24.6	198	200.00	5532
21S.04E.10.423	10-27-99	--	--	--	41.4	4.1	22.9	168	147.00	5595
	01-22-00	--	--	--	40.9	3.7	22.9	167	147.00	5595
	04-19-00	--	--	--	40.7	3.8	22.6	166	147.00	5595
	07-13-00	--	--	--	40.2	5.2	22.5	165	147.00	5595
21S.04E.10.434	01-22-00	--	--	--	32.7	4.8	24.8	133	110.00	5557
	04-19-00	--	--	--	31.3	4.8	24.8	131	110.00	5557
	07-13-00	233	284	0	31.6	7.0	25.0	132	110.00	5557
21S.04E.10.441	10-27-99	--	--	--	34.3	5.0	24.5	139	130.00	5537
	01-22-00	--	--	--	32.5	4.7	23.7	141	130.00	5537
	04-19-00	--	--	--	32.6	5.2	23.6	139	130.00	5537
	07-13-00	--	--	--	32.2	5.2	24.1	138	130.00	5537
21S.04E.10.442	01-20-00	--	--	--	33.5	3.4	28.6	137	179.00	5494
	04-20-00	--	--	--	32.2	3.4	27.6	135	179.00	5494
	07-12-00	201	245	0	33.8	5.0	28.1	135	179.00	5494
21S.04E.11.333	01-20-00	--	--	--	34.4	4.8	23.7	137	145.00	5451
	04-21-00	--	--	--	34.5	5.2	23.3	136	145.00	5451
	07-12-00	185	226	0	35.7	7.1	22.8	139	145.00	5451
21S.04E.14.114	10-27-99	--	--	--	26.4	5.2	27.5	133	161.00	5356
	01-21-00	--	--	--	27.8	5.1	26.4	132	161.00	5356
	04-20-00	--	--	--	26.4	5.2	27.0	131	161.00	5356
	07-14-00	--	--	--	26.9	7.7	26.8	132	161.00	5356
21S.04E.22.222	07-14-00	191	233	0	29.0	5.5	33.4	160	--	5213
21S.04E.23.233A	10-27-99	--	--	--	26.8	4.1	34.8	135	250.00	5018
	01-28-00	--	--	--	28.1	3.9	33.1	133	250.00	5018
	04-20-00	--	--	--	26.3	4.2	33.3	131	250.00	5018
	07-14-00	173	211	0	26.1	5.6	33.8	132	250.00	5018
21S.04E.23.233B	01-22-00	--	--	--	27.1	3.8	33.4	133	180.00	5043
	04-20-00	--	--	--	25.7	4.0	33.9	130	180.00	5043
	07-13-00	179	218	0	25.0	5.9	34.2	131	180.00	5043

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	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)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
21S.04E.10.414B	10-26-99	650	588	44	.25	--	<10	14.9	293
	01-21-00	662	585	46	.27	--	<10	15.8	302
	04-21-00	656	582	41	.24	--	<10	16.0	305
	07-12-00	676	586	48	.25	--	<10	15.5	295
21S.04E.10.414C	10-27-99	661	588	39	.27	--	<10	15.4	285
	01-21-00	654	569	43	.27	--	<10	16.5	287
	04-19-00	658	574	34	.26	--	E10	17.1	293
	07-13-00	670	567	33	.26	--	<10	20.8	252
21S.04E.10.414D	10-26-99	690	615	37	.26	--	<10	19.7	290
	01-21-00	680	587	39	.27	--	<10	20.4	291
	04-21-00	676	592	34	.26	--	<10	20.5	287
	07-13-00	680	595	43	.26	--	20	13.3	303
21S.04E.10.421	01-22-00	554	491	44	.20	--	30	13.3	194
	04-20-00	600	556	37	.22	--	<10	14.3	216
	07-14-00	621	568	39	.23	--	<10	14.2	220
21S.04E.10.422	01-21-00	632	595	45	.13	--	<10	25.0	289
	04-19-00	627	605	40	.18	--	290	25.1	291
	07-12-00	629	603	43	.19	--	320	16.0	310
21S.04E.10.423	10-27-99	662	557	42	.32	--	<10	14.2	288
	01-22-00	650	543	45	.33	--	<10	15.0	295
	04-19-00	660	543	35	.31	<13	<10	--	296
	07-13-00	672	540	45	.31	--	<10	14.0	297
21S.04E.10.434	01-22-00	557	495	36	.25	--	<10	25.3	230
	04-19-00	547	499	31	.25	--	<10	25.5	235
	07-13-00	527	505	30	.24	--	<10	23.0	237
21S.04E.10.441	10-27-99	552	489	40	.25	--	<10	18.1	203
	01-22-00	546	498	41	.31	--	<10	18.9	206
	04-19-00	555	486	37	.25	--	<10	19.2	211
	07-13-00	556	481	40	.25	--	<10	17.9	206
21S.04E.10.442	01-20-00	482	465	37	.20	--	<10	21.6	511
	04-20-00	485	467	28	.20	--	40	20.7	506
	07-12-00	492	478	35	.20	--	80	16.0	472
21S.04E.11.333	01-20-00	527	475	39	.24	--	10	20.0	227
	04-21-00	538	481	31	.24	--	<10	20.6	207
	07-12-00	530	482	44	.24	--	<10	13.3	218
21S.04E.14.114	10-27-99	497	512	38	.20	--	<10	33.1	287
	01-21-00	505	489	30	.21	--	<10	23.3	254
	04-20-00	512	489	24	.20	--	<10	24.9	261
	07-14-00	515	488	26	.19	--	<10	23.7	228
21S.04E.22.222	07-14-00	523	502	28	.22	--	<10	24.5	363
21S.04E.23.233A	10-27-99	489	470	42	.20	--	<10	16.5	327
	01-28-00	478	454	36	.25	--	<10	21.1	326
	04-20-00	479	454	29	.21	--	<10	20.2	328
	07-14-00	489	449	36	.20	--	<10	23.2	334
21S.04E.23.233B	01-22-00	476	453	38	.21	--	<10	19.7	329
	04-20-00	478	450	35	.20	--	<10	20.3	332
	07-13-00	487	453	35	.19	--	<10	18.5	338

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	STATION NUMBER	COUNTY	SITE	DATE	TIME	GEO-LOGIC UNIT	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)
21S.04E.23.233C	322800106300901	013	GW	01-22-00	1325	400PCMB	--	--	2.8
				04-20-00	1535	400PCMB	--	--	4.2
				07-13-00	1500	400PCMB	643	77	5.6
22S.04E.01.431	322503106290801	013	GW	09-20-00	1020	110BLSN	658	11	.8
22S.04E.12.214	322446106290801	013	GW	08-22-00	0915	110BLSN	--	--	4.0
22S.04E.12.434	322405106290101	013	GW	08-22-00	1015	110BLSN	--	--	5.5
22S.04E.13.241	322347106285801	013	GW	08-23-00	1300	110BLSN	658	91	6.3
22S.04E.13.432	322325106290401	013	GW	08-23-00	1100	110BLSN	660	120	8.5
22S.04E.23.214	322250106302501	013	GW	09-29-00	1100	110BLSN	--	--	--
22S.04E.24.144	322249106291801	013	GW	08-23-00	0900	110BLSN	658	97	6.7
22S.04E.24.212A	322309106290201	013	GW	08-22-00	1130	110BLSN	657	112	7.8
22S.05E.05.313	322510106274101	013	GW	09-20-00	1430	110BLSN	650	48	3.3
22S.05E.07.342	322415106281801	013	GW	09-22-00	1130	110BLSN	650	76	5.2
22S.05E.19.141	322256106282601	013	GW	08-22-00	1400	110BLSN	656	66	4.3
22S.05E.20.111	322311106274101	013	GW	09-21-00	1215	110BLSN	655	90	6.5
22S.05E.26.1	322300106220001	013	GW	08-21-00	1300	--	--	--	--
22S.05E.30.122	322220106281701	013	GW	09-19-00	1100	110BLSN	655	110	7.9

LOCAL IDENT-I-FIER	DATE	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	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, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)
21S.04E.23.233C	01-22-00	7.6	743	18.9	270	84.7	14.0	1.9	52.6	180
	04-20-00	7.2	753	21.4	280	87.7	14.2	2.0	52.8	179
	07-13-00	7.3	766	22.5	280	85.9	14.9	1.8	46.1	178
22S.04E.01.431	09-20-00	7.8	773	25.0	280	77.4	20.7	3.3	42.3	78
22S.04E.12.214	08-22-00	7.3	490	26.0	180	51.9	11.2	2.4	32.3	130
22S.04E.12.434	08-22-00	7.7	381	27.2	110	33.3	5.90	1.9	38.2	108
22S.04E.13.241	08-23-00	7.1	526	26.5	190	56.6	11.6	2.5	30.2	113
22S.04E.13.432	08-23-00	7.1	713	25.1	290	84.6	19.9	3.0	33.3	119
22S.04E.23.214	09-29-00	--	--	--	47	12.2	4.10	5.1	23.1	70
22S.04E.24.144	08-23-00	7.5	352	26.5	110	34.2	6.17	1.9	29.6	106
22S.04E.24.212A	08-22-00	7.6	425	25.6	150	44.4	10.5	2.2	24.3	89
22S.05E.05.313	09-20-00	7.8	354	25.7	120	36.5	8.06	1.9	23.2	110
22S.05E.07.342	09-22-00	7.8	341	25.9	94	31.0	3.95	1.8	30.0	105
22S.05E.19.141	08-22-00	7.8	357	29.0	59	19.7	2.44	1.4	48.5	98
22S.05E.20.111	09-21-00	7.6	382	24.0	120	38.3	6.89	1.9	27.7	94
22S.05E.26.1	08-21-00	7.0	658	29.5	130	39.7	7.92	7.4	65.7	262
22S.05E.30.122	09-19-00	7.3	313	23.9	99	27.4	7.47	1.9	19.3	74

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)	ANC BICAR-BONATE IT FIELD MG/L AS HCO3 (00450)	ANC CAR-BONATE IT FIELD MG/L AS CO3 (00447)	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)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
21S.04E.23.233C	01-22-00	--	--	--	31.2	3.9	32.9	144	--	--
	04-20-00	--	--	--	29.8	4.0	33.0	141	--	--
	07-13-00	176	214	0	30.7	6.0	33.2	144	--	--
22S.04E.01.431	09-20-00	--	--	--	70.3	2.2	10.0	189	2.14	1.93
22S.04E.12.214	08-22-00	--	--	--	19.3	.6	44.0	89.6	<.020	2.05
22S.04E.12.434	08-22-00	--	--	--	13.9	.4	35.4	59.9	<.020	1.98
22S.04E.13.241	08-23-00	--	--	--	29.9	.3	40.0	91.3	<.020	5.80
22S.04E.13.432	08-23-00	--	--	--	47.7	.3	42.4	158	<.020	9.87
22S.04E.23.214	09-29-00	--	--	--	30.1	.2	1.3	<.3	--	--
22S.04E.24.144	08-23-00	--	--	--	10.9	.4	37.0	55.5	<.020	1.18
22S.04E.24.212A	08-22-00	--	--	--	29.1	.3	45.5	70.3	<.020	4.07
22S.05E.05.313	09-20-00	--	--	--	10.5	.3	40.0	44.7	<.020	1.23
22S.05E.07.342	09-22-00	--	--	--	9.9	.4	34.6	42.4	<.020	1.55
22S.05E.19.141	08-22-00	--	--	--	9.9	.5	29.6	55.9	<.020	.799
22S.05E.20.111	09-21-00	--	--	--	15.7	.3	39.5	56.7	<.020	3.14
22S.05E.26.1	08-21-00	--	--	--	40.2	.9	39.6	73.8	2.81	.166
22S.05E.30.122	09-19-00	--	--	--	18.9	.4	47.4	35.0	<.020	2.79

LOCAL IDENT-I-FIER	DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	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)
21S.04E.23.233C	01-22-00	--	--	--	--	100.00	4994	458	474	36
	04-20-00	--	--	--	--	100.00	4994	495	472	34
	07-13-00	--	--	--	--	100.00	4994	501	468	31
22S.04E.01.431	09-20-00	.052	<.010	.28	2	598.00	4410	478	474	--
22S.04E.12.214	08-22-00	<.010	<.010	.36	<1	838.00	4354	344	338	--
22S.04E.12.434	08-22-00	<.010	<.010	.35	<1	800.00	4264	260	262	--
22S.04E.13.241	08-23-00	<.010	.010	<.27	<1	900.00	4260	372	356	--
22S.04E.13.432	08-23-00	<.010	.020	.37	<1	890.00	4270	526	504	--
22S.04E.23.214	09-29-00	--	--	16	20	570.00	4369	108	--	--
22S.04E.24.144	08-23-00	<.010	<.010	<.27	2	--	4293	250	245	--
22S.04E.24.212A	08-22-00	<.010	.020	E.17	2	805.00	4273	303	298	--
22S.05E.05.313	09-20-00	<.010	<.010	E.18	<1	555.00	4160	238	236	--
22S.05E.07.342	09-22-00	<.010	.014	<.27	<1	970.00	4185	229	224	--
22S.05E.19.141	08-22-00	<.010	.020	<.27	<1	733.00	4217	232	230	--
22S.05E.20.111	09-21-00	<.010	<.010	<.27	5	351.00	4150	267	257	--
22S.05E.26.1	08-21-00	.015	2.96	81	70	--	3970	380	446	--
22S.05E.30.122	09-19-00	<.010	.027	.33	2	420.00	4190	215	214	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)
21S.04E.23.233C	01-22-00	.22	<10	21.1	338	--	--	--	--	--
	04-20-00	.22	<10	21.2	338	--	--	--	--	--
	07-13-00	.22	<10	24.1	354	--	--	--	--	--
22S.04E.01.431	09-20-00	--	--	--	--	<.003	<.002	<.002	<.002	<.001
22S.04E.12.214	08-22-00	--	--	--	--	<.003	<.002	<.002	<.002	<.001
22S.04E.12.434	08-22-00	--	--	--	--	<.003	<.002	<.002	<.002	<.001
22S.04E.13.241	08-23-00	--	--	--	--	<.003	<.002	<.002	<.002	<.001
22S.04E.13.432	08-23-00	--	--	--	--	<.003	<.002	<.002	<.002	<.001
22S.04E.23.214	09-29-00	--	--	--	--	<.002	<.004	<.002	<.005	<.007
22S.04E.24.144	08-23-00	--	--	--	--	<.003	<.002	<.002	<.002	<.001
22S.04E.24.212A	08-22-00	--	--	--	--	<.003	<.002	<.002	<.002	<.001
22S.05E.05.313	09-20-00	--	--	--	--	<.003	<.002	<.002	<.002	<.001
22S.05E.07.342	09-22-00	--	--	--	--	<.003	<.002	<.002	<.002	<.001
22S.05E.19.141	08-22-00	--	--	--	--	<.003	<.002	<.002	<.002	<.001
22S.05E.20.111	09-21-00	--	--	--	--	<.003	<.002	<.002	<.002	<.001
22S.05E.26.1	08-21-00	--	--	--	--	<.003	<.002	<.002	<.002	<.001
22S.05E.30.122	09-19-00	--	--	--	--	<.003	<.002	<.002	<.002	<.001

LOCAL IDENT-I-FIER	DATE	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)
21S.04E.23.233C	01-22-00	--	--	--	--	--	--	--	--	--
	04-20-00	--	--	--	--	--	--	--	--	--
	07-13-00	--	--	--	--	--	--	--	--	--
22S.04E.01.431	09-20-00	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
22S.04E.12.214	08-22-00	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
22S.04E.12.434	08-22-00	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
22S.04E.13.241	08-23-00	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
22S.04E.13.432	08-23-00	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
22S.04E.23.214	09-29-00	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	<.005
22S.04E.24.144	08-23-00	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
22S.04E.24.212A	08-22-00	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
22S.05E.05.313	09-20-00	<.002	<.002	<.003	<.003	<.004	<.004	E.001	<.002	<.002
22S.05E.07.342	09-22-00	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
22S.05E.19.141	08-22-00	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
22S.05E.20.111	09-21-00	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002
22S.05E.26.1	08-21-00	<.002	<.002	<.003	<.003	<.004	<.004	E.004	<.002	<.002
22S.05E.30.122	09-19-00	<.002	<.002	<.003	<.003	<.004	<.004	<.002	<.002	<.002

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)
21S.04E.23.233C	01-22-00	--	--	--	--	--	--	--	--	--
	04-20-00	--	--	--	--	--	--	--	--	--
	07-13-00	--	--	--	--	--	--	--	--	--
22S.04E.01.431	09-20-00	<.001	<.017	<.002	<.004	<.003	--	<.004	<.002	<.005
22S.04E.12.214	08-22-00	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005
22S.04E.12.434	08-22-00	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005
22S.04E.13.241	08-23-00	<.001	<.017	<.002	<.004	<.003	--	<.004	<.002	<.005
22S.04E.13.432	08-23-00	<.001	<.017	<.002	<.004	<.003	--	<.004	<.002	<.005
22S.04E.23.214	09-29-00	--	<.021	<.002	<.009	<.005	<.003	<.004	<.035	<.027
22S.04E.24.144	08-23-00	<.001	<.017	<.002	<.004	<.003	--	<.004	<.002	<.005
22S.04E.24.212A	08-22-00	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005
22S.05E.05.313	09-20-00	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005
22S.05E.07.342	09-22-00	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005
22S.05E.19.141	08-22-00	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005
22S.05E.20.111	09-21-00	<.001	<.017	<.080	<.004	<.003	<.003	<.004	<.002	<.005
22S.05E.26.1	08-21-00	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.020
22S.05E.30.122	09-19-00	<.001	<.017	<.002	<.004	<.003	<.003	<.004	<.002	<.005

LOCAL IDENT-I-FIER	DATE	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)
21S.04E.23.233C	01-22-00	--	--	--	--	--	--	--	--
	04-20-00	--	--	--	--	--	--	--	--
	07-13-00	--	--	--	--	--	--	--	--
22S.04E.01.431	09-20-00	<.001	<.006	<.002	<.004	<.004	<.003	E.001	<.004
22S.04E.12.214	08-22-00	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
22S.04E.12.434	08-22-00	<.001	<.090	<.002	<.004	<.004	<.003	<.006	<.004
22S.04E.13.241	08-23-00	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
22S.04E.13.432	08-23-00	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
22S.04E.23.214	09-29-00	<.050	--	<.013	<.006	<.002	<.007	<.002	<.007
22S.04E.24.144	08-23-00	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
22S.04E.24.212A	08-22-00	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
22S.05E.05.313	09-20-00	<.001	<.006	E.002	<.004	<.004	<.003	E.002	<.004
22S.05E.07.342	09-22-00	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
22S.05E.19.141	08-22-00	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
22S.05E.20.111	09-21-00	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
22S.05E.26.1	08-21-00	<.001	<.006	<.002	<.004	<.004	<.003	E.009	<.004
22S.05E.30.122	09-19-00	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DONA ANA COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
21S.04E.23.233C	01-22-00	--	--	--	--	--	--	--	--
	04-20-00	--	--	--	--	--	--	--	--
	07-13-00	--	--	--	--	--	--	--	--
22S.04E.01.431	09-20-00	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
22S.04E.12.214	08-22-00	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
22S.04E.12.434	08-22-00	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
22S.04E.13.241	08-23-00	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
22S.04E.13.432	08-23-00	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
22S.04E.23.214	09-29-00	<.002	<.010	<.006	<.011	<.015	<.004	<.010	<.011
22S.04E.24.144	08-23-00	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
22S.04E.24.212A	08-22-00	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
22S.05E.05.313	09-20-00	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
22S.05E.07.342	09-22-00	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
22S.05E.19.141	08-22-00	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
22S.05E.20.111	09-21-00	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
22S.05E.26.1	08-21-00	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.240
22S.05E.30.122	09-19-00	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004

LOCAL IDENT-I-FIER	DATE	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
21S.04E.23.233C	01-22-00	--	--	--	--	--	--	--	--
	04-20-00	--	--	--	--	--	--	--	--
	07-13-00	--	--	--	--	--	--	--	--
22S.04E.01.431	09-20-00	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
22S.04E.12.214	08-22-00	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
22S.04E.12.434	08-22-00	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
22S.04E.13.241	08-23-00	<.013	<.005	<.010	<.007	<.013	<.002	<.001	.005
22S.04E.13.432	08-23-00	<.013	<.005	<.010	<.007	<.013	<.002	<.001	.005
22S.04E.23.214	09-29-00	<.023	<.011	<.016	E.023	<.017	<.005	<.002	E.001
22S.04E.24.144	08-23-00	<.013	<.005	<.010	<.007	<.013	<.002	<.001	.005
22S.04E.24.212A	08-22-00	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
22S.05E.05.313	09-20-00	<.013	<.005	<.010	E.014	<.013	<.002	<.001	.004
22S.05E.07.342	09-22-00	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
22S.05E.19.141	08-22-00	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002
22S.05E.20.111	09-21-00	<.013	<.005	<.010	E.021	<.013	<.002	<.001	<.002
22S.05E.26.1	08-21-00	<.013	<.005	<.010	<.60	<.013	<.170	<.001	<.002
22S.05E.30.122	09-19-00	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LINCOLN COUNTY

LOCAL IDENT-I-FIER	STATION NUMBER	COUNTY	SITE	DATE	TIME	GEO-LOGIC UNIT	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)
MOUND SPRING (UPPER POND)	332535106170501	027	SP	07-25-00	1045	110AVMB	649	86	4.8

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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
MOUND SPRING	07-25-00	7.8	54500	32.0	26.0	2400	2400	722	154	4.6

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)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
MOUND SPRING	07-25-00	392	72	74	91	0	777	.4	28.3

LOCAL IDENT-I-FIER	DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	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)
MOUND SPRING	07-25-00	2110	.27	.47	.049	<.050	<.010	<.006	<.010

LOCAL IDENT-I-FIER	DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	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)
MOUND SPRING	07-25-00	E.007	4480	4240	<15	<84	E1.2	<3	9

LOCAL IDENT-I-FIER	DATE	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)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	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)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)
MOUND SPRING	07-25-00	8.6	241	203	.34	<.1	<.1	5.4	2

LOCAL IDENT-I-FIER	DATE	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)
MOUND SPRING	07-25-00	2	2	<30	<90	<1	<1	60.3	45.5

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LINCOLN COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
MOUND SPRING	07-25-00	3	<3	<.2	<.3	3.3	E2	<1	<1

LOCAL IDENT-I-FIER	DATE	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	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	07-25-00	10100	9600	<20	<93	<.04	<.03	<.05	<.03

OTERO COUNTY

LOCAL IDENT-I-FIER	STATION NUMBER	COUNTY	SITE	DATE	TIME	GEO-LOGIC UNIT	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
MALPAIS SPRING NR OSCURA,	331715106183301	035	SP	07-26-00	1430	110AVMB	1.3	652	71

LOCAL IDENT-I-FIER	DATE	OXYGEN, DIS-SOLVED (MG/L) (00300)	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 TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
MALPAIS SPRING	07-26-00	5.8	7.3	6450	38.0	16.5	2300	2300	700	137

LOCAL IDENT-I-FIER	DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	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)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)
MALPAIS SPRING	07-26-00	6.8	614	50	54	66	0	1040	.3	29.4

LOCAL IDENT-I-FIER	DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	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)
MALPAIS SPRING	07-26-00	1770	E.10	.11	.042	3.14	<.010	<.006	<.010

LOCAL IDENT-I-FIER	DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	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)
MALPAIS SPRING	07-26-00	E.006	4860	4360	19	<84	2.3	E2	11

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

OTERO COUNTY--Continued

LOCAL IDENT-I-FIER	DATE	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)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	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)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)
MALPAIS SPRING	07-26-00	12.3	208	207	.44	<.1	<.1	<3.2	2

LOCAL IDENT-I-FIER	DATE	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)
MALPAIS SPRING	07-26-00	<1	2	<30	<90	<1	<1	46.7	40.5

LOCAL IDENT-I-FIER	DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
MALPAIS SPRING	07-26-00	<2	<3	<.2	<.3	6.7	5	<1	<1

LOCAL IDENT-I-FIER	DATE	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)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	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)
MALPAIS SPRING	07-26-00	11400	11200	E11	<93	<.04	<.03	<.05	<.03

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

EL PASO COUNTY, TEXAS

LOCAL IDENT-I-FIER	STATION NUMBER	COUNTY	SITE	DATE	TIME	GEO-LOGIC UNIT	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)
JL-49-04-185	315837106361301	141	GW	09-22-00	1045	112SNTF	8.4	510	30.0
JL-49-06-111	315817106202601	141	GW	08-16-00	1540	--	7.6	810	36.0
JL-49-06-503	315636106191902	141	GW	08-17-00	1445	--	7.4	1340	29.0
JL-49-06-603	315541106171701	141	GW	08-15-00	1030	--	7.4	1880	32.5
JL-49-06-901	315331106171001	141	GW	08-15-00	1630	--	7.7	1870	36.0
JL-49-13-630	314853106245001	141	GW	08-10-00	1000	--	7.8	734	33.0
JL-49-13-908	314556106233201	141	GW	09-21-00	1045	112HCBL	8.0	1360	28.0
JL-49-13-957	314638106232801	141	GW	09-20-00	1215	112HCBL	8.1	1050	32.5
JL-49-14-202	315123106174501	141	GW	08-14-00	1200	--	8.3	1200	35.0
JL-49-14-303	315004106163902	141	GW	08-09-00	1015	--	7.6	1450	24.0
JL-49-14-708	314550106222201	141	GW	09-20-00	1130	112HCBL	7.4	1620	30.0
JL-49-14-723	314532106222101	141	GW	09-21-00	1145	112HCBL	7.5	2620	29.5

LOCAL IDENT-I-FIER	DATE	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	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)
JL-49-04-185	09-22-00	31.5	23	--	9.09	.09	1.9	96.6	76	69
JL-49-06-111	08-16-00	25.5	--	--	--	--	--	--	--	--
JL-49-06-503	08-17-00	25.0	250	--	71.6	16.1	9.0	167	--	--
JL-49-06-603	08-15-00	24.5	330	--	87.9	27.2	11.2	234	--	--
JL-49-06-901	08-15-00	23.5	300	--	80.6	23.6	11.2	238	--	--
JL-49-13-630	08-10-00	30.0	140	--	34.1	13.6	5.8	85.8	--	160
JL-49-13-908	09-21-00	27.5	200	120	56.5	14.1	11.4	184	92	86
JL-49-13-957	09-20-00	29.0	140	46	39.2	9.80	8.3	145	101	93
JL-49-14-202	08-14-00	24.0	150	--	36.7	14.4	9.2	166	--	--
JL-49-14-303	08-09-00	23.0	240	--	63.9	18.8	10.6	181	--	--
JL-49-14-708	09-20-00	26.5	360	210	95.6	28.4	14.3	193	158	146
JL-49-14-723	09-21-00	25.5	700	530	195	50.0	22.0	297	181	166

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

EL PASO COUNTY, TEXAS--Continued

LOCAL IDENT-I-FIER	DATE	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	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)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
JL-49-04-185	09-22-00	78	3	45.7	.7	30.2	88.0	<.10	<.020	<.050
JL-49-06-111	08-16-00	--	--	--	--	--	--	--	--	--
JL-49-06-503	08-17-00	--	--	205	.5	27.2	214	E.10	<.020	5.00
JL-49-06-603	08-15-00	--	--	363	.4	12.2	283	.24	.199	.545
JL-49-06-901	08-15-00	--	--	412	.4	23.2	185	<.10	<.020	.543
JL-49-13-630	08-10-00	195	0	84.6	1.0	28.0	58.4	<.10	<.020	1.71
JL-49-13-908	09-21-00	105	0	323	.5	32.2	74.1	<.10	<.020	<.050
JL-49-13-957	09-20-00	114	0	225	.6	32.5	60.7	<.10	<.020	.308
JL-49-14-202	08-14-00	--	--	259	.4	17.8	--	.19	.164	.063
JL-49-14-303	08-09-00	--	--	216	.5	30.4	245	<.10	<.020	1.33
JL-49-14-708	09-20-00	179	0	256	.4	33.2	244	E.10	<.020	1.67
JL-49-14-723	09-21-00	203	0	433	.2	35.7	562	E.10	<.020	.121

LOCAL IDENT-I-FIER	DATE	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)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)
JL-49-04-185	09-22-00	<.010	E.004	<.010	850.00	3790	320	314	<15	9.4
JL-49-06-111	08-16-00	--	--	--	560.00	4014	--	--	--	--
JL-49-06-503	08-17-00	<.010	<.006	<.010	601.00	3973	--	--	--	--
JL-49-06-603	08-15-00	.025	<.006	<.010	600.00	4010	--	--	--	--
JL-49-06-901	08-15-00	.039	<.006	<.010	550.00	4005	--	--	--	--
JL-49-13-630	08-10-00	<.010	.006	<.010	--	--	--	416	--	--
JL-49-13-908	09-21-00	<.010	E.005	<.010	683.00	3735	758	750	<15	7.2
JL-49-13-957	09-20-00	.019	.006	<.010	882.00	3854	592	581	<15	7.3
JL-49-14-202	08-14-00	<.010	<.006	<.010	500.00	3972	--	--	--	--
JL-49-14-303	08-09-00	<.010	<.006	<.010	500.00	--	--	--	--	--
JL-49-14-708	09-20-00	<.010	.012	.010	750.00	3805	1000	963	<15	6.7
JL-49-14-723	09-21-00	.020	E.004	<.010	610.00	3746	1710	1700	<45	10.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

EL PASO COUNTY, TEXAS--Continued

LOCAL IDENT-I-FIER	DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	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)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
JL-49-04-185	09-22-00	--	42	--	120	<.1	E.7	--	<1
JL-49-06-111	08-16-00	--	--	--	--	--	--	--	--
JL-49-06-503	08-17-00	E1	43	<2	160	<8.0	<14.0	<13	<10
JL-49-06-603	08-15-00	<3	40	<2	149	<8.0	<14.0	<13	<10
JL-49-06-901	08-15-00	E2	39	<2	145	<8.0	<14.0	<13	<10
JL-49-13-630	08-10-00	3	59	<2	103	<8.0	<14.0	<13	<10
JL-49-13-908	09-21-00	--	178	--	100	<.1	<.8	--	<1
JL-49-13-957	09-20-00	--	145	--	102	<.1	E.5	--	<1
JL-49-14-202	08-14-00	--	62	<2	113	<8.0	<14.0	<13	<10
JL-49-14-303	08-09-00	E2	21	<2	188	<8.0	<14.0	<13	<10
JL-49-14-708	09-20-00	--	67	--	200	<.1	<.8	--	<1
JL-49-14-723	09-21-00	--	59	--	267	<.1	<.8	--	<1

LOCAL IDENT-I-FIER	DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY 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)
JL-49-04-185	09-22-00	<10	<1	39.5	E1	<.2	--	<1	<2.4
JL-49-06-111	08-16-00	--	--	--	--	--	--	--	--
JL-49-06-503	08-17-00	60	<100	78.2	43	<.2	<34	<40	--
JL-49-06-603	08-15-00	2100	<100	123	169	.9	<34	<40	--
JL-49-06-901	08-15-00	50	<100	116	23	.5	<34	<40	--
JL-49-13-630	08-10-00	<10	<100	39.5	<2	<.2	<34	<40	--
JL-49-13-908	09-21-00	<10	<1	129	18	<.2	--	<1	4.1
JL-49-13-957	09-20-00	<10	<1	104	11	<.2	--	<1	3.3
JL-49-14-202	08-14-00	30	<100	76.5	10	E.1	<34	<40	--
JL-49-14-303	08-09-00	100	<100	98.2	21	<.2	<34	<40	--
JL-49-14-708	09-20-00	<10	<1	118	17	<.2	--	4	3.5
JL-49-14-723	09-21-00	<30	<1	270	63	<.2	--	<1	4.6

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

EL PASO COUNTY, TEXAS--Continued

LOCAL IDENT-I-FIER	DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)
JL-49-04-185	09-22-00	--	<1	98.4	--	<20	850	510	20
JL-49-06-111	08-16-00	--	--	--	--	--	--	--	--
JL-49-06-503	08-17-00	4	<7	1670	<10	<20	--	--	--
JL-49-06-603	08-15-00	--	<7	2000	<10	<20	--	--	--
JL-49-06-901	08-15-00	--	<7	1780	<10	<20	--	--	--
JL-49-13-630	08-10-00	<3	<7	1100	15	<20	--	--	--
JL-49-13-908	09-21-00	--	<1	1870	--	<20	681	482	180
JL-49-13-957	09-20-00	--	<1	1220	--	<20	877	648	--
JL-49-14-202	08-14-00	<3	<7	1040	<10	<20	--	--	--
JL-49-14-303	08-09-00	E2	<7	1280	E7	<20	--	--	--
JL-49-14-708	09-20-00	--	<1	2600	--	E20	750	225	--
JL-49-14-723	09-21-00	--	<1	5670	--	<60	610	410	30

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