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Water Resources Data New Mexico Water Year 2004

Water-Data Report NM-04-1

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

Water Resources Data New Mexico Water Year 2004

By Dave Byrd, Harriet R. Allen, and Mary Montaño

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

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Gale A. Norton, Secretary

U.S. Geological Survey
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Calendar for Water Year 2004

2003

October

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
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November

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December

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2004

January

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February

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29						

March

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April

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30	31					

June

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July

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August

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29	30	31				

September

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12	13	14	15	16	17	18
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26	27	28	29	30		

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 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.

The following personnel are recognized for their significant contributions to this report:

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Water-resources data for the 2004 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 22 lakes and reservoirs; water quality for 39 gaging stations, 108 wells, and 9 partial-record stations and miscellaneous sites; and water levels at 128 observation wells. Also included are 80 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. Two 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.

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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	Station number	Page
LOWER MISSISSIPPI RIVER BASIN		
MISSISSIPPI RIVER:		
ARKANSAS RIVER BASIN		
ARKANSAS RIVER:		
CANADIAN RIVER:		
CHICORICA CREEK:		
LAKE MALOYA NEAR RATON, NM (v)	07199450	29
EAGLE TAIL DITCH NEAR MAXWELL, NM (d)	07202500	30
VERMEJO RIVER NEAR DAWSON, NM (d)	07203000	31
CIMARRON RIVER:		
MORENO CREEK AT EAGLE NEST, NM (d)	07204000	32
CIENEGUILLA CREEK NEAR EAGLE NEST, NM (d)	07204500	33
SIXMILE CREEK NEAR EAGLE NEST, NM (d)	07205000	34
EAGLE NEST LAKE NEAR EAGLE NEST, NM (v))	07205500	35
CIMARRON RIVER BELOW EAGLE NEST DAM, NM (d)	07206000	36
CIMARRON RIVER NEAR CIMARRON, NM (d)	07207000	37
PONIL CREEK NEAR CIMARRON, NM (d)	07207500	38
RAYADO CREEK NEAR CIMARRON, NM (d)	07208500	39
CIMARRON RIVER AT SPRINGER, NM (d)	07211000	40
CANADIAN RIVER NEAR TAYLOR SPRINGS, NM (d)	07211500	41
MORA RIVER AT LA CUEVA, NM (d)	07215500	42
MORA RIVER NEAR GOLONDRINAS, NM (d)	07216500	43
COYOTE CREEK NEAR GOLONDRINAS, NM (d)	07218000	44
CANADIAN RIVER NEAR SANCHEZ, NM (d)	07221500	45
CONCHAS LAKE AT CONCHAS DAM, NM (v)	07223500	46
UTE CREEK NEAR LOGAN, NM (d)	07226500	47
UTE RESERVOIR NEAR LOGAN, NM (v)	07226800	48
CANADIAN RIVER AT LOGAN NM (c,d)	07227000	49
REVUELTO CREEK NEAR LOGAN, NM (c,d)	07227100	52
CANADIAN RIVER ABOVE NEW MEXICO-TEXAS STATE LINE, NM (c)	07227140	54
WESTERN GULF OF MEXICO BASINS		
RIO GRANDE BASIN		
RIO GRANDE NEAR LOBATOS, CO (d)	08251500	55
COSTILLA CREEK ABOVE COSTILLA DAM, NM (d)	08252500	56
CASIAS CREEK NEAR COSTILLA, NM (d)	08253000	57
SANTISTEVAN CREEK NEAR COSTILLA, NM (d)	08253500	58
COSTILLA RESERVOIR NEAR COSTILLA, NM (v)	08253900	59
COSTILLA CREEK BELOW COSTILLA DAM, NM (d)	08254000	60
COSTILLA CREEK NEAR COSTILLA, NM (d)	08255500	61
COSTILLA CREEK NEAR GARCIA, CO (d)	08261000	62
RIO GRANDE NEAR CERRO, NM (d)	08263500	63
RED RIVER NEAR QUESTA, NM (d)	08265000	64
RED RIVER BELOW FISH HATCHERY NEAR QUESTA, NM (d)	08266820	65
RIO HONDO NEAR VALDEZ, NM (c,d)	08267500	66
RIO GRANDE NEAR ARROYO HONDO, NM (d)	08268700	68
RIO PUEBLO DE TAOS NEAR TAOS, NM (d)	08269000	69
RIO LUCERO NEAR ARROYO SECO, NM (d)	08271000	70
RIO GRANDE DEL RANCHO NEAR TALPA, NM (d)	08275500	71
RIO PUEBLO DE TAOS BELOW LOS CORDOVAS, NM (d)	08276300	72
RIO GRANDE BELOW TAOS JUNCTION BRIDGE, NEAR TAOS, NM (c,d,m)	08276500	73
RIO PUEBLO NEAR PENASCO, NM (d)	08277470	76
RIO SANTA BARBARA NEAR PENASCO, NM (d)	08278500	77
EMBUDO CREEK AT DIXON, NM (d)	08279000	78
RIO GRANDE AT EMBUDO, NM (d)	08279500	79

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

	Station number	Page
WESTERN GULF OF MEXICO BASINS		
RIO GRANDE BASIN - CONTINUED		
RIO CHAMA:		
RIO CHAMA NEAR LA PUENTE, NM (c,d,s)	08284100	80
WILLOW CREEK:		
AZOTEA TUNNEL AT OUTLET, NEAR CHAMA, NM (d)	08284160	82
WILLOW CREEK ABOVE HERON RESERVOIR, NEAR LOS OJOS, NM (d)	08284200	83
HORSE LAKE CREEK ABOVE HERON RESERVOIR, NEAR LOS OJOS, NM (d)	08284300	84
HERON RESERVOIR NEAR LOS OJOS, NM (v)	08284510	85
WILLOW CREEK BELOW HERON DAM, NM (d)	08284520	86
EL VADO RESERVOIR NEAR TIERRA AMARILLA, NM (v)	08285000	87
RIO CHAMA BELOW EL VADO DAM, NM (d)	08285500	88
RIO CHAMA ABOVE ABIQUIU RESERVOIR, NM (d)	08286500	89
ABIQUIU RESERVOIR NEAR ABIQUIU, NM (v)	08286900	94
RIO CHAMA BELOW ABIQUIU DAM, NM (d)	08287000	95
RIO OJO CALIENTE AT LA MADERA, NM (d)	08289000	98
RIO CHAMA NEAR CHAMITA, NM (c,d,m,s)	08290000	99
SANTA CRUZ RIVER:		
SANTA CRUZ RIVER AT CUNDIYO, NM (d)	08291000	102
POJOAQUE RIVER:		
RIO NAMBE:		
RIO NAMBE ABOVE NAMBE FALLS DAM NEAR NAMBE, NM (d)	08294195	103
NAMBE FALLS RESERVOIR NEAR NAMBE, NM (v)	08294200	104
RIO NAMBE BELOW NAMBE FALLS DAM, NEAR NAMBE, NM (d)	08294210	105
TESUQUE CREEK:		
TESUQUE CREEK ABOVE DIVERSIONS NEAR SANTA FE, NM (d)	08302500	106
LITTLE TESUQUE CREEK AT BISHOPS LODGE NEAR SANTA FE, NM (d)	08305030	107
RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, NM (c,d,m,s)	08313000	108
SANTA FE RIVER:		
SANTA FE RIVER ABOVE McCLURE RESERVOIR NEAR SANTA FE, NM (d)	08315480	112
MCCLURE RESERVOIR NEAR SANTA FE, NM (v)	08315500	113
SANTA FE RIVER NEAR SANTA FE, NM (d)	08316000	114
NICHOLS RESERVOIR NEAR SANTA FE, NM (v)	08316500	115
COCHITI LAKE NEAR COCHITI PUEBLO, NM (v,c)	08317300	116
RIO GRANDE BELOW COCHITI DAM, NM (d)	08317400	117
GALISTEO RESERVOIR NEAR CERRILLOS, NM (v)	08317900	122
GALISTEO CREEK BELOW GALISTEO DAM, NM (d)	08317950	123
RIO GRANDE AT SAN FELIPE, NM (c,d,m,s)	08319000	124
JEMEZ RIVER:		
JEMEZ RIVER NEAR JEMEZ, NM (c,d,m)	08324000	128
JEMEZ CANYON RESERVOIR NEAR BERNALILLO, NM (v)	08328500	130
JEMEZ RIVER BELOW JEMEZ CANYON DAM, NM (d)	08329000	131
NORTH FLOODWAY CHANNEL:		
HAHN ARROYO AT ALBUQUERQUE, NM (d)	08329840	133
BEAR ARROYO AT JEFFERSON STREET AT ALBUQUERQUE, NM (d)	08329870	134
LA CUEVA ARROYO TRIBUTARY AT ALBUQUERQUE, NM (d)	08329888	136
NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM (d)	08329900	137
NORTH CAMINO ARROYO AT SUNSET HILLS IN ALBUQUERQUE, NM (d)	08329911	138
RIO GRANDE AT ALAMEDA BRIDGE AT ALAMEDA, NM (d)	08329918	139
ARROYO 19A AT ALBUQUERQUE, NM (d)	08329935	144
MARIPOSA DIVERSION OF SAN ANTONIO ARROYO AT ALBUQUERQUE, NM (d)	083299375	145
LADERA ARROYO AT ALBUQUERQUE, NM (d)	08329938	146
RIO GRANDE AT ALBUQUERQUE, NM (d,s,t)	08330000	147
TIJERAS ARROYO:		
TRAMWAY FLOODWAY CHANNEL AT ALBUQUERQUE, NM (d)	08330540	151

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RIO GRANDE BASIN - CONTINUED		
TIJERAS ARROYO NEAR ALBUQUERQUE, NM (d)	08330600	152
SOUTH DIVERSION CHANNEL ABOVE TIJERAS ARROYO NEAR ALBUQUERQUE, NM (d)	08330775	153
RIO GRANDE AT ISLETA LAKES NEAR ISLETA, NM (d)	08330875	154
RIO GRANDE AT ISLETA, NM (c,s)	08331000	155
AMOLE DEL NORTE CHANNEL AT ALBUQUERQUE, NM (d)	08331118	159
RIO GRANDE CONVEYANCE CHANNEL NEAR BERNARDO, NM (d)	08331990	160
RIO GRANDE FLOODWAY NEAR BERNARDO, NM (c,d,s)	08332010	161
BERNARDO INTERIOR DRAIN NEAR BERNARDO, NM (d)	08332050	164
RIO PUERCO:		
RIO PUERCO ABOVE ARROYO CHICO, NEAR GUADALUPE, NM (d,s)	08334000	165
RIO SAN JOSE:		
BLUEWATER LAKE NEAR BLUEWATER, NM (v)	08341400	167
RIO SAN JOSE AT GRANTS, NM (d)	08343000	168
RIO SAN JOSE NEAR GRANTS, NM (d)	08343500	169
RIO PUERCO NEAR BERNARDO, NM (c,d,s)	08353000	170
RIO GRANDE CONVEYANCE CHANNEL AT SAN ACACIA, NM (d,s)	08354800	173
RIO GRANDE FLOODWAY AT SAN ACACIA, NM (c,d)	08354900	174
RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, NM (d)	08358300	179
RIO GRANDE FLOODWAY AT SAN MARCIAL, NM (c,d,m)	08358400	180
ELEPHANT BUTTE RESERVOIR AT ELEPHANT BUTTE, NM (v)	08360500	186
RIO GRANDE BELOW ELEPHANT BUTTE, NM (d)	08361000	187
CABALLO RESERVOIR NEAR ARREY, NM (v)	08362000	188
RIO GRANDE BELOW CABALLO DAM, NM (d)	08362500	189
RIO GRANDE AT EL PASO, TX (c,s)	08364000	190
PECOS RIVER BASIN:		
RIO MORA NEAR TERRERO, NM (d)	08377900	195
PECOS RIVER NEAR PECOS, NM (d)	08378500	196
PECOS RIVER NEAR ANTON CHICO, NM (d)	08379500	197
GALLINAS CREEK NEAR MONTEZUMA, NM (d)	08380500	198
GALLINAS RIVER NEAR COLONIAS, NM (d)	08382500	199
PECOS RIVER ABOVE CANON DEL UTA NEAR COLONIAS, NM (d)	08382600	200
PECOS RIVER ABOVE SANTA ROSA LAKE, NM (c,d)	08382650	201
SANTA ROSA LAKE NEAR SANTA ROSA, NM (v)	08382810	204
PECOS RIVER BELOW SANTA ROSA DAM, NM (d)	08382830	205
PECOS RIVER NEAR PUERTO DE LUNA, NM (c,d)	08383500	206
LAKE SUMNER NEAR FORT SUMNER, NM (v)	08384000	209
PECOS RIVER BELOW SUMNER DAM, NM (d)	08384500	210
FORT SUMNER MAIN CANAL NEAR FORT SUMNER, NM (d)	08385000	211
PECOS RIVER BELOW TAIBAN CREEK NEAR FORT SUMNER, NM (d)	08385522	212
PECOS RIVER NEAR DUNLAP, NM (d)	08385630	213
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RIO RUIDOSO AT RUIDOSO, NM (d)	08386505	215
RIO RUIDOSO AT HOLLYWOOD, NM (d)	08387000	216
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RIO HONDO NEAR ROSWELL, NM (d)	08393610	221
PECOS RIVER NORTH BOUNDARY (BLM WETLANDS) NEAR DEXTER, NM (d)	08394024	222
PECOS RIVER SOUTH BOUNDARY (BLM WETLANDS) NEAR DEXTER, NM (d)	08394033	223
PECOS RIVER NEAR LAKE ARTHUR, NM (d)	08395500	224
PECOS RIVER NEAR ARTESIA, NM (c,d,m,s)	08396500	225

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PECOS RIVER BASIN - CONTINUED		
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RIO PENASCO NEAR HOPE, NM (d)	08397620	231
RIO PENASCO AT DAYTON, NM (d)	08398500	232
PECOS RIVER (KAISER CHANNEL) NEAR LAKEWOOD, NM (d)	08399500	233
FOURMILE DRAW NEAR LAKEWOOD, NM (d)	08400000	234
SOUTH SEVEN RIVERS NEAR LAKEWOOD, NM (d)	08401200	235
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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. Information regarding these stations may be obtained from the Water Science Center 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
Vigil Canyon near Holman, NM	07214600	2.8	1956-63

Station name	Station number	Drainage area (mi^2)	Period of record
ARKANSAS RIVER BASIN--Continued			
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	1,104	1912-14, 1935-96
Canadian River near Bell Ranch, NM	07222000	6,200	1915-17, 1927-39
Bell Ranch Canal below Conchas Dam, NM	07223000	--	1942-84
Conchas 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 Variadero, 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	07227140	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 #2 near Amalia, NM	08254425	--	1986-88
Costilla Creek near Amalia, NM	08254500	152	1949-59, 1961-81
Ute Creek near Amalia, NM	08255000	12	1949-59

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
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	160	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
Rio Fernando de Taos near Taos, NM	08275000	71.7	1912-17, 1927-28, 1962-80

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
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	10,550	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
San Ildefonso ditch near Espanola, NM	08294000	--	1940-41
Rio Nambe at Nambe Falls, near Nambe, NM	08294300	25.1	1963-78
Nambe Canal near Nambe, NM	08294500	--	1932-51
Rio Nambe near Nambe, NM	08295000	38.2	1932-51

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
Rio En Medio near Santa Fe, NM	08295200	0.63	1963-73
Llano Frio ditch near Nambe, NM	08295500	--	1936-50
Llano ditch near Nambe, NM	08296000	--	1936-50
Moises 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	0.43	1961-73
South Fork Tesuque Creek near Santa Fe, NM	08302400	0.47	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	0.64	1962-73
Little Tesuque Creek tributary No. 4 near Santa Fe, NM	08304200	0.69	1964-73
Little Tesuque Creek tributary No. 3 near Santa Fe, NM	08304300	0.65	1963-73
Little Tesuque Creek tributary No. 2 near Santa Fe, NM	08304400	0.45	1962-73
Little Tesuque Creek near Santa Fe, NM	08305000	7.06	1936-41
Rio Tesuque at Tesuque, near Santa Fe, NM	08305500	--	1938-41
Acequia Medio near Santa Fe, NM	08306000	--	1936-46
Acequia Medio at waste, near Santa Fe, NM	08306500	--	1936-38
Hubbard ditch near Santa Fe, NM	08307500	--	1938-41
Mitchell ditch near Santa Fe, NM	08308000	--	1936-51
Rio Tesuque at Grant Boundary at Tesuque, NM	08308025	12	1998-99
Post ditch near Tesuque Pueblo, NM	08308500	--	1936-41
Qwiyo ditch near Tesuque Pueblo, NM	08309000	--	1936-41

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
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
Rio Grande near White Rock, NM	08313268	--	2000-03
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
Arroyo Hondo near Santa Fe, NM	08317050	--	2000-03
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
Rio de 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

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
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
Campus Wash at Albuquerque, NM	08329700	3.80	1982-96, 1996-2003
Embudo Arroyo at Albuquerque, NM	08329720	3.80	1998-2003
North Floodway Channel at Albuquerque, NM	08329835	40.0	1982-99, 1999-2003
North Fork Hahn Arroyo at Albuquerque, NM	08329839	1.51	1979-83, 1992-96, 1996-2003
Grant Line Arroyo at Villa del Oso at Albuquerque, NM	08329860	0.052	1976-98
Grant Line Arroyo at Albuquerque, NM	08329865	0.052	1987-91
Pino Arroyo at Ventura Blvd. at Albuquerque, NM	08329872	5.40	1990-2000
Hoffmantown Church Outlet No. 1 at Albuquerque, NM	08329873	0.859	1990-97
Hoffmantown Church Outlet No. 2 at Albuquerque, NM	08329874	0.413	1990-97
Cherry Hills Arroyo No. 1 at Albuquerque, NM	08329875	0.147	1990-97
Cherry Hills Arroyo No. 2 at Albuquerque, NM	08329876	0.796	1990-97
Pino Arroyo at Wyoming Blvd. at Albuquerque, NM	08329877	5.80	1990-97
Academy Acres Drain at Albuquerque, NM	08329880	0.124	1976-2003
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

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
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
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 PL at Albuquerque, NM	08331130	0.58	1979-87
North Pajarito Arroyo at GB at Albuquerque, NM	08331140	0.81	1979-83
Rio Grande near Belen, NM	08331500	18,230	1941-57
Abo Arroyo near Blue Springs, NM	08331660	242	1996-2000
Rio Grande near Bernardo, NM	08332000	19,230	1936-39, 1941-64
Lower San Juan Riverside drain near Bernardo, NM	08332030	--	1954-75
La Jara Creek near La Jara, NM	08332500	--	1932-33
Rio Puerco near Cabezon, NM	08333000	360	1943-51
Rio Puerco at Cabezon, NM	08333500	397	1944-51
Papers Wash near Star Lake Trading Post, NM	08334300	20.3	1978-82
Arroyo Chico near Guadalupe, NM	08340500	1,390	1943-86
Rio Puerco near Guadalupe, NM	08341000	1,860	1943
Bluewater Creek above Bluewater Dam, near Bluewater, NM	08341300	75.0	1953-78, 1989-2001
Cottonwood Creek near Thoreau, NM	08341365	77.0	1989-2001
Bluewater Creek below Bluewater Dam, NM	08341500	201	1951-60, 1989-2001
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, NM	08343000	1,020	1949-66, 1968-94
Grants Canyon at Grants, NM	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

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
Rio San Jose near San Fidel, NM	08345500	2,310	1936-42, 1950-51
Seama-Paraje ditch near Casa Blanca, NM	08346000	--	1937-41
Casa Blanca ditch at Casa Blanca, NM	08346500	--	1937-41
New Laguna ditch wasteway near Casa Blanca, NM	08347000	--	1937-41
New Laguna ditch near New Laguna, NM	08347500	--	1937-41
Rio San Jose near Casa Blanca, NM	08348000	--	1936-41
Encinal Creek near Casa Blanca, NM	08348500	6.19	1937-39
Laguna ditch at New Laguna, NM	08349000	--	1936-41
Paguate Creek near Laguna, NM	08349500	--	1937-41
Rio Paguate below Jackpile Mine near Laguna, NM	08349800	107	1976-93
Paguate Reservoir outlet near Laguna, NM	08350000	--	1940-41
Rio San Jose near Laguna, NM	08350500	3,040	1937-41, 1973-76
Mesita ditch near Laguna, NM	08351000	--	1936-41
Rio 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
Socorro Main Canal North at San Acacia, NM	08354500	--	1936-64, 1964-2003
Rio Grande at San Acacia, NM	08355000	26,770	1936-64
Nogal Arroyo Floodway near Socorro, NM	08355200	--	1969-77
Arroyo de la Matanza near Socorro, NM	08355300	46.0	1969-77
Rio Grande at San Antonio, NM	08355500	27,400	1951-57
Socorro Main Canal South near San Antonio, NM	08356000	--	1937-38, 1948-71
San Antonio Riverside Drain near San Antonio, NM	08356500	--	1948-71
Elmendorf Interior Drain near San Antonio, NM	08357000	--	1936-38, 1948-71
San Antonio Riverside Drain near San Marcial, NM	08357500	--	1948-71
Rio Grande Conveyance Channel below heading, near San Marcial, NM	08358000	--	1953-57
Rio Grande at San Marcial, NM	08358500	27,700	1895-1964
Milligan Gulch near San Marcial, NM	08358550	413	1968-78
Rio Grande Conveyance Channel at mouth of Nogal Canyon, near Truth or Consequences, NM	08359000	--	1953-57

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
Rio Grande at the narrows, in Elephant Butte Reservoir, NM	08359500	28,500	1951-57
Alamosa Creek near Monticello, NM	08360000*	403	1931-42
Las Cruces Arroyo near Las Cruces, NM	08363600	13.5	1958-66
Tortugas Arroyo near Las Cruces, NM	08363700	20.7	1962-74
Rio Grande at Vinton Bridge near Anthony, TX	08363840	28,680	1970-74
Pecos River near Cowles, NM	08378000	189	1910-19
Pecos River near San Jose, NM	08379000	539	1939-40
Tecolote Creek below Wright Canyon near El Porvenir, NM	08379187	5.42	1987-92
Tecolote Creek near San Pablo, NM	08379200	83	1960-65
South Fork Gallinas Creek near El Porvenir, NM	08380000	25	1911-20
Gallinas Creek at Montezuma, NM	08381000	87	1903, 1904-66
Storrie feeder canal near Las Vegas, NM	08381500	--	1949-52
Gallinas River near Lourdes, NM	08382000	313	1951-63
Pecos River near Fort Sumner, NM	08385500	5,300	1904-05, 1905-10, 1912-13, 1994-2003
Pecos River below Fort Sumner, NM	08385520	5,600	1957-58, 1962-70
Pecos River below Yeso Arroyo, near Fort Sumner, NM	08385620	7,000	1965-68
Pecos River above Huggins Creek, near Roswell, NM	08385640	7,800	1965-68
Pecos River below Sixmile Draw near Roswell, NM	08385643	--	2001-03
Pecos River above Acme, NM	08385648	--	1992-2000
F. Herrera ditch S. at Hollywood, NM	08386900	--	1960-68, 1970-83
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 near Lincoln, NM	08389055	--	1999-2002
Rio Bonito at Hondo, NM	08389500	295	1930-55
Rio Hondo at Hondo, NM	08390000	1,000	1930-31
Rio Hondo at Picacho, NM	08390100	715	1908-09, 1956-62
Rio Hondo at Hondo Reservoir site, near Roswell, NM	08392500	970	1903-05
Rio Hondo below reservoir outlet, near Roswell, NM	08393000	--	1908
Taylor-Moore ditch near Roswell, NM	08393100	--	1905

Station name	Station number	Drainage area (mi^2)	Period of record
RIO GRANDE BASIN--Continued			
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	--	1903-06, 1981-97
North Spring River at Roswell, NM	08393600	19.5	1958-77
Pecos River near Roswell, NM	08394000	--	1903-06
Pecos River near Hagerman, NM	08394100	13,360	1968-90
Rio Felix at old highway bridge near Hagerman, NM	08394500	932	1939-87
Rio Felix near Hagerman, NM	08395000	934	1932-39
Cottonwood Creek near Lake Arthur, NM	08396000	199	1932-65
Rio Penasco at Elk, NM	08397450	--	1910-11
Rio Penasco near Elk, NM	08397500	--	1911
Rio Penasco near Dunken, NM	08397600	583	1956-62
Pecos River below McMillan Dam, NM	08401000	16,990	1906-09, 1910-11, 1939-40, 1946-88
Pecos River above Seven Rivers near Lakewood, NM	08401100	17,000	1974-87
Pecos River below Avalon Dam, NM	08404500	--	1940
Pecos River at Carlsbad, NM	08405000	18,100	1903-08, 1914-15, 1920-69
Rattlesnake Springs near Whites City, NM	08405300	--	1961-62
Black River at Malaga, NM	08406000	360	1939-40
Red Bluff Reservoir near Orla, TX	08410000	20,720	1937-2003
Pecos River near Orla, TX	08412500	21,210	1937-2003
Pecos River near Barstow, TX	08418010	--	1999-2003
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

Station name	Station number	Drainage area (mi^2)	Period of record
TULAROSA VALLEY BASIN			
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
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
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

Station name	Station number	Drainage area (mi^2)	Period of record
SAN JUAN BASIN--Continued			
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
La Plata River near Farmington, NM	09367500	583	1938-2002
Shumway Arroyo near Fruitland, NM	09367555	62.8	1975-82
Chaco Wash near Star Lake Trading Post, NM	09367660	59.0	1978-82
Chaco Wash at east boundary at Chaco Canyon National Monument, NM	09367676	364	1980-82
Fajada Wash at Chaco Canyon National Monument, NM	09367678	199	1980-83
Gallo Wash at Chaco National Monument, NM	09367682	36.2	1978-81
Chaco Wash near Pueblo Bonito at bridge at Chaco Canyon National Monument, NM	09367683	619	1980-83
Ah-shi-sle-pah Wash near Kimbeto, NM	09367685	8.21	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
Chaco Wash at Chaco Culture National Monument, NM	09367800	578	1976-90
Black Springs Wash near Mexican Springs, NM	09367900*	7.05	1953-78, 1979-82
Hunter Wash at Bisti Trading Post, NM	09367930	45.6	1975-82
Teec-ni-di-tso Wash near Burnham, 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

Station name	Station number	Drainage area (mi^2)	Period of record
LITTLE COLORADO RIVER BASIN--Continued			
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 2004 water year. Records of (c) chemical, (b) biological, (m) microbiological, (s) sediment, or (t) daily water temperature were collected and published for the record, expressed in water years, 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
Eagle Tail ditch near Maxwell, NM	07202500	--	c	1975
Vermejo River near Dawson, NM	07203000	301	c,s	1964-84
Vermejo River near Maxwell, NM	07203525	486	c	1993
Cimarron River below Eagle Nest Dam, NM	07206000	167	c,s	1975-84
Cimarron River near Cimarron, NM	07207000	294	c,s	1979-96
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
Mora River near Golondrinas, NM	07216500	267	c,s	1981
Coyote Creek near Golondrinas, NM	07218000	215	c	1975
Mora River near Shoemaker, NM	07221000	1,104	c	1967-69
Canadian River near Sanchez, NM	07221500	6,015	c,s	1966, 1968-69, 1975-97
Bell Ranch Canal below Conchas Dam, NM	07223000	--	c	1963
Conchas Canal below Conchas Dam, NM	07223300	--	c	1964-77
Canadian River below Conchas Dam, NM	07224500	7,417	c	1963-64
Ute Creek near Gladstone, NM	07225500	--	c	1954
Ute Creek near Logan, NM	07226500	2,060	c	1963-64
Ute Reservoir at north spillway at Ute Dam, NM	07226810	11,140	c	1968
Ute Reservoir at north drain outlet, Ute Dam, NM	07226820	11,140	c	1968
Canadian River below Ute Dam near Logan, NM	07226830	--	c	1969
Plaza Largo Creek above Barranca Creek near Tucumcari, NM	07227070	--	c	1964
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

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record
Canadian River near Glenrio, NM	07227125	--	c	1964-66
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	25.7	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
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

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record
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
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
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
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	20.3	c,m,s	1978-82
Arroyo Chico near Guadalupe, NM	08340500	1,390	c,s	1948-55, 1978-87
Bluewater Lake near Bluewater, NM	08341400	201	c,s	1966-69, 1987-92
Rio San Jose at Grants, NM	08343000	1,020	c,s	1974-75, 1980
Rio San Jose near Grants, NM	08343500	2,300	c,b,s	1972, 1976-82, 1986-96
Rio Paguate below Jackpile Mine near Laguna, 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,b,s,t	1960-76, 1978-96, 2002
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 near 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
Rio Mora near Terrero, NM	08377900	53.2	c,b,s	1963-96, 2002
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

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record
Pecos River at Santa Rosa, NM	08383000	2,650	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,b,s	1960-77, 1987-97, 2002
Rio Hondo at Diamond A Ranch near Roswell, NM	08390500	947	c,s	1962
Hagerman Canal at Dexter, NM	08393800	--	c	1964-67
Rio Penasco at Dayton, NM	08398500	1,060	s	1962-72
Pecos River (Kaiser Channel) near Lakewood, NM	08399500	--	c	1968-70, 1978-79
Lake McMillan near Lakewood, NM	08400500	16,990	c	1962-67, 1978-79
Pecos River below McMillan Dam, NM	08401000	16,990	c	1962-66, 1978-79
Pecos River at Ford Crossing above Major Johnson Springs, NM	08401300	16,990	c	1962-67
Pecos River at Damsite 3 near Carlsbad, NM	08402000	17,980	c,t	1962-67
Pecos River at Carlsbad, NM	08405000	18,100	c,k,t	1962-87
Pecos River below Dark Canyon Draw, at Carlsbad, NM	08405200	18,550	c	1972-2003
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
Pecos River near Orla, TX	08412500	21,210	c,t	1937-2003
Mimbres River at McKnight dam site near Mimbres, NM	08476300	97.3	c,s	1967-72
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, CO	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

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record
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
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
San Juan River near Fruitland, NM	09367540	8,010	c	1978-95
Shumway Arroyo near Fruitland, NM	09367555	62.8	b,c,m,s	1976, 1978-82
Shumway Arroyo near Waterflow, NM	09367561	73.8	b,c,m,s	1974-84, 1986
Chaco Wash near Star Lake Trading Post, NM	09367660	59.0	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 National Monument, NM	09367682	36.2	c,s	1979
Chaco Wash near PB at bridge at Chaco Canyon National Monument, NM	09367683	619	c,s	1981-84
Ah-shi-sle-pah Wash near Kimbeto, NM	09367685	8.21	c,s	1977-83
Kim-me-ni-oli Wash near Crownpoint, NM	09367687	228	b,c,s	1981-83
Kim-me-ni-oli Wash near Lake Valley, NM	09367689	400	b,c,s	1981-83
De-na-zin Wash near Bisti Trading Post, NM	09367710	184	c,s	1975-82
Black Springs Wash near Mexican Springs, NM	09367900	7.05	c,s	1981-82
Hunter Wash at Bisti Trading Post, NM	09367930	45.6	c,s	1975-82
Teec-ni-di-tso Wash near Burnham, NM	09367934	7.2	c,m,s,t	1978-82
Burnham Wash near Burnham, NM	09367936	8.6	c,m,s,t	1978-82
Chaco River near Burnham, NM	09367938	3,640	c,m,s,t	1978-82
Chaco River near Waterflow, NM	09367950	4,350	c,s	1976-89
San Juan River near Bluff, UT	09379500	23,000	c,s,t	1962-68

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record
Zuni River above Black Rock Reservoir, NM	09386950	810	c,s	1976, 1979-94
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	--	c,s	1988-94
Gila River near Gila, NM	09430500	1,864	c,s,t	1963-67
Mogollon Creek near Cliff, NM	09430600	69	c,b,s	1901, 1967-96
Mangas Creek below Mangas Springs, NM	09431100	--	c,m,s	1970-86
Sunset Canal above New Mexico-Arizona State line	09433500	--	b,c,s	1969-72
New Model Canal above New Mexico-Arizona State line	09436500	--	b,c,s	1969-72
Gila River at New Mexico-Arizona State line	09438000	3,349	b,c,s	1968-73
San Francisco River at Clifton, AZ	09445000	2,766	s	1963-67
Dry Beaver Creek near Rimrock, AZ	09505350	139	s	1964-65

INTRODUCTION

The USGS New Mexico Water Science Center, 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 database 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 titled "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 185 gaging stations and contents for 22 lakes and reservoirs; water quality for 39 gaging stations, 108 wells, and 9 partial-record stations and miscellaneous sites, and water levels at 128 observation wells. Also included are 80 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. Two 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 titled "Surface Water Supply of the United States." These Water-Supply Papers were in an annual series through September 30, 1960, 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 titled "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 titled "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 the U.S. Geological Survey, Information Services, Box 25286, Denver, Colorado 80225.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports for each State. Water-quality records for water years 1964 through 1974 were similarly released in separate reports published annually for each State.

These reports have an identification number consisting of the two-letter State beginning with water year 1975; data for streamflow, water quality, and ground water were combined in reports abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report NM-04-1." These Water-Data Reports are for sale by the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161.

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 the 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,
City of Santa Fe,
City of Santa Rosa,
City of Raton,
Pueblo of Zuni,
Pecos Valley Artesian Conservancy District,
Lea County Water User's Association,
Red Bluff Water and Power District,
Village of Ruidoso, and
New Mexico Environment Department, Surface Water Quality Bureau.

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

Reclamation, the Bureau of Indian Affairs, and the Bureau of Land Management.

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

SUMMARY OF HYDROLOGIC CONDITIONS

Streamflow

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

Ephemeral streams are present in the remainder of the State. Some of these streams, such as the Rio Puerco, have deeply incised channels, whereas others, especially those on the eastern plains, are swales 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 in most areas of the State at the beginning of water year 2004. Santa Fe received half its normal rainfall in September, and Carlsbad recorded only 20 percent of normal rainfall. In contrast to Santa Fe and Carlsbad, Farmington received 106 percent of normal rainfall for the month. Once water year 2004 began, rainfall amounts varied widely from month to month between October and December. October rainfall was generally below normal; this was followed by a very wet November. Rainfall amounts were 145 percent of normal in Las Cruces and 144 percent of normal in Farmington. Rainfall amounts then decreased in December. Las Cruces received only 13 percent of normal rainfall and Farmington received only 56 percent of normal rainfall. This decreased rainfall continued through January. However, a marked increase in precipitation began in February and continued in many areas of the State through April. April was a very wet month: Carlsbad recorded 804 percent of normal, Las Cruces 938 percent of normal, Albuquerque 577 percent of normal, and Farmington 396 percent of normal precipitation. This record-breaking rainfall was then followed by 2 months of drought-like conditions before precipitation amounts returned in July toward normal levels. In the August "monsoon season," precipitation increased somewhat above July amounts. Precipitation at the end of water year 2004 was below normal. Carlsbad recorded only 26 percent in September, Santa Fe recorded 79 percent, and Albuquerque recorded 95 percent of normal rainfall amounts.

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 for such uses as irrigation, flood control, legal compacts, endangered species, and recreation. During periods of heavy storm activity, for example, reservoir operators can reduce the amount of water in storage. A review of water storage during water year 2004 indicates various trends. Storage at Cochiti Reservoir did not vary at all; storage was steady at 10 percent of capacity throughout the water year. In similar manner, Eagle Nest Lake only varied from 33 to 37 percent of capacity during the water year. Heron Reservoir demonstrated a slow but steady decrease in storage during the water year, beginning the year at 34 percent of capacity and ending the year at 28 percent of capacity. Several reservoirs maintained a steady amount of storage in the early months of the year, only to have storage increases later in the year. This was the case in El Vado Reservoir where storage was below 20 percent of capacity until April, when water in storage increased

dramatically to 55 percent of capacity; in May, storage increased to 60 percent of capacity. By September storage in the reservoir had returned to 20 percent of capacity. Several other reservoirs were able to maintain their increased storage until the end of the water year. For example, storage in Navajo Reservoir increased from 43 percent of capacity in September to 61 percent of capacity in June, ending the water year at 55 percent of capacity. Elephant Butte and Caballo Reservoirs are used in the administration of the Rio Grande Compact. The amount of water stored by these reservoirs during water year 2004 was near record lows. In the beginning of the year, combined storage in these reservoirs was 7 percent of capacity and in May increased to 16 percent of capacity. By the end of the water year, storage had dropped to only 5 percent of capacity. In like manner, Sumner Reservoir and Santa Rosa Lake are reservoirs used to administer the Pecos River Compact between New Mexico and Texas. These reservoirs held combined storage of only 2 percent in October, increasing to a maximum of only 11 percent in August, then dropping again to 5 percent of combined capacity in September. Storage in most of the State's reservoirs at the end of water year 2004 generally was at higher levels than at the beginning of the water year. Specifically, the combined storage in 13 major reservoirs in the State increased by 272,800 acre-feet during water year 2004, totaling 1,733,800 acre-feet by September 30, 2004. The total combined storage was only 20 percent of the 8,530,000-acre-foot combined capacity of these 13 reservoirs.

Streamflow in New Mexico was well below normal at the end of water year 2003. This trend continued through October with the notable exception of the Delaware River Basin, where the recorded flow at Delaware River near Red Bluff (station 08408500) was 216 percent of normal. November flows were at or above normal at most index sites. However, streamflows were below normal at most stations beginning in December and extending through February. Intense rains in the State in March and April increased streamflows at most stations to well above normal. For example, streamflow recorded in April at Gila River near Gila (station 09430500) was 215 percent of normal, at Delaware River near Red Bluff (station 08408500) was 1,700 percent of normal, and at Pecos River near Pecos (station 08378500) was 136 percent of normal. These flows did not continue into June when drought-like conditions resulted in streamflows well below normal at most stations. Streamflow was predominantly below normal in most areas of the State from June through the end of water year 2004. One exception was again in the Delaware River Basin where above-normal streamflow was recorded during that period. Two index stations that were representative of prevailing statewide conditions were Gila River

Discharges for water year 2004 at four index streamflow-gaging stations compared to median annual discharge for water years 1974-2003 at the same stations are listed below:

Station number	Station name	Median annual discharge in acre-ft water years 1974-2003	Annual mean discharge in acre-ft water year 2004	2004 discharge as a percentage of median
08276500	Rio Grande below Taos Junction Bridge	571,600	333,700	58
08378500	Pecos River near Pecos	75,160	53,610	71
08408500	Delaware River near Red Bluff	3,670	14,010	382
09430500	Gila River near Gila	113,000	77,730	69

near Gila (station 09430500), which was 46 percent of normal in September, and the Rio Grande below Taos Junction Bridge (station 08276500), which was 63 percent of normal in September.

Ground-Water Levels

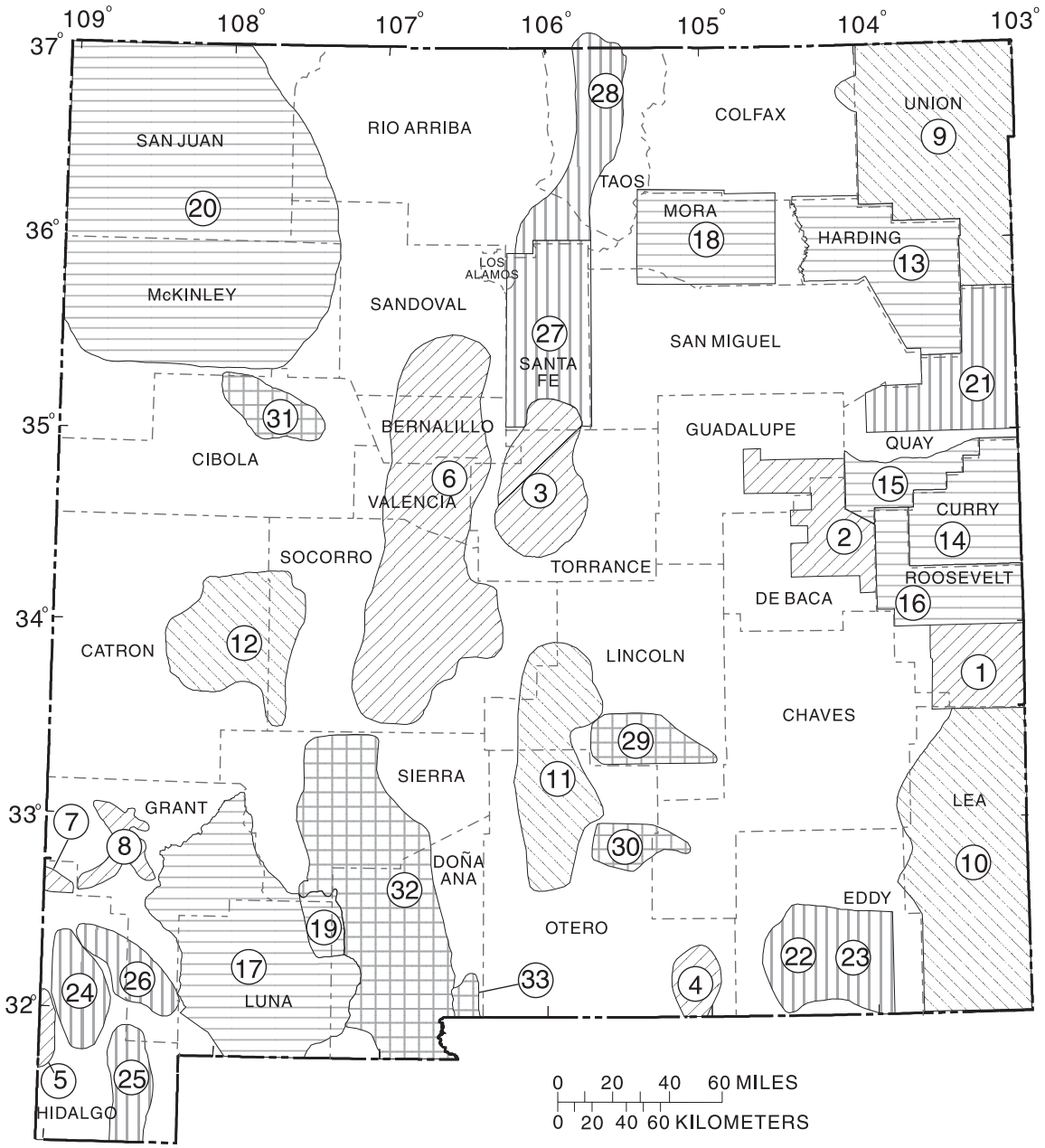
Ground-water levels are historically measured periodically in a network of about 6,000 observation wells in order to record changes in ground-water storage. Water levels in about 1,200 wells are historically measured annually and the remaining 4,800 wells are scheduled for measurement at 5-year intervals, so that wells in different areas are measured each year (fig. 1). In water year 2004, only five of the six 5-year historically intensive measuring areas were visited (Rio Hondo, Rio Peñasco, Grants-Bluewater, Lower Rio Grande, and Hueco). The wells historically measured every 5 years in the sixth intensive area, Roswell Basin, were reclassified as annual wells to be measured by the New Mexico Office of the State Engineer. 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. Seventeen 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 from about 1979 through 1986, when water levels leveled off for a few years. The current decrease in the water level, beginning about 1989, in the Cibola County well may be a result of recent withdrawals for industrial use and drought. The wells in Luna, Union, and Chaves Counties are in areas of intensive irrigation. The water level in the Luna County well (Mimbres Valley) has decreased from water year 1991 but has 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 well in Chaves County has yearly fluctuations that are typical of water levels in wells in the Roswell artesian basin. Water levels in that area, represented by this well, had been recovering since the mid-1970's due to a decrease in withdrawals coupled with a local increase in recharge. However, this trend leveled off from about 1994 through about 2000 when water levels began to decline and continued to decline through 2004.

DOWNSTREAM ORDER AND STATION NUMBER

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

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These station numbers are in the same downstream order used in this report. In assigning a station number, 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 composed of both types of stations. Gaps are consecutive. The complete 8-digit (or 10-digit) number for each station such as 09004100, which appears just to the left of the station name, includes a 2-digit part number "09" plus the 6-digit (or 8-digit) downstream order number "004100." In areas of high station density, an additional two digits may be added to the station identification number to yield a 10-digit number.



EXPLANATION

2000/2005

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

2001/2006

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

1997/2002

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

1998/2003

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

1999/2004

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

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

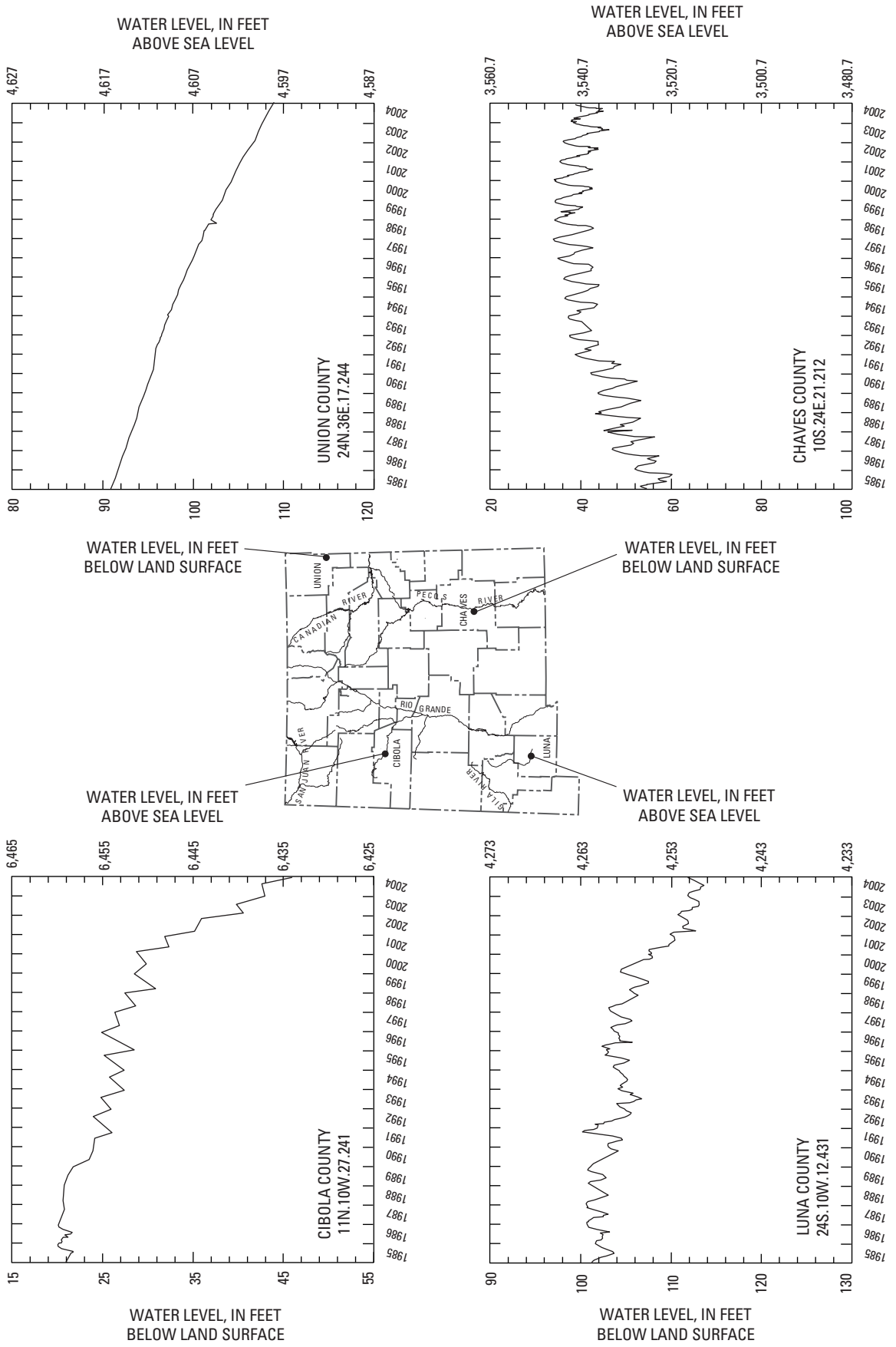


Figure 2. -- Ground-water-level trends for the last 20 years.

The stations are numbered in downstream order as described above between stations of consecutive 8-digit numbers.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The USGS well- and miscellaneous site-numbering system is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude; the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, a sequential number such as “01,” “02,” and so forth, would be assigned as one would for wells (see fig. 3). The 8-digit, downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

In addition to the well number that is based on the latitude and longitude for each well, another well number is given that is based on the Bureau of Land Management’s system of land subdivision. This well number is familiar to the water users of New Mexico and shows the location of the well by quadrant, township, range section, and position within the section (see fig. 4). 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. Four quadrants are formed by the intersection of the base line and the principal meridian—1 indicates the northwest quadrant, 2 the northeast, 3 the southwest, and 4 the southeast. A zero in a tract number indicates that the well or spring is centrally positioned or has not been located accurately enough to be placed within a tract or quarter section. Three digits in a tract number will locate a well or spring to the nearest 10-acre tract, and 6 digits will locate a site to the nearest 0.16-acre tract.

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 2 digits. These are the first 2 digits in the well number. Each 1-degree quadrangle is divided into 7 1/2-minute quadrangles, which are given 2-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 01 to 19. This is the fifth digit of the well number. Finally, each well within a 2 1/2-minute quadrangle is given a 2-digit number in the order in which it was inventoried, starting with 01. These are the last 2 digits of the well number. In addition to this 7-digit number, a two-letter prefix is used to identify the county. An example of the Texas well-numbering system is provided in figure 5.

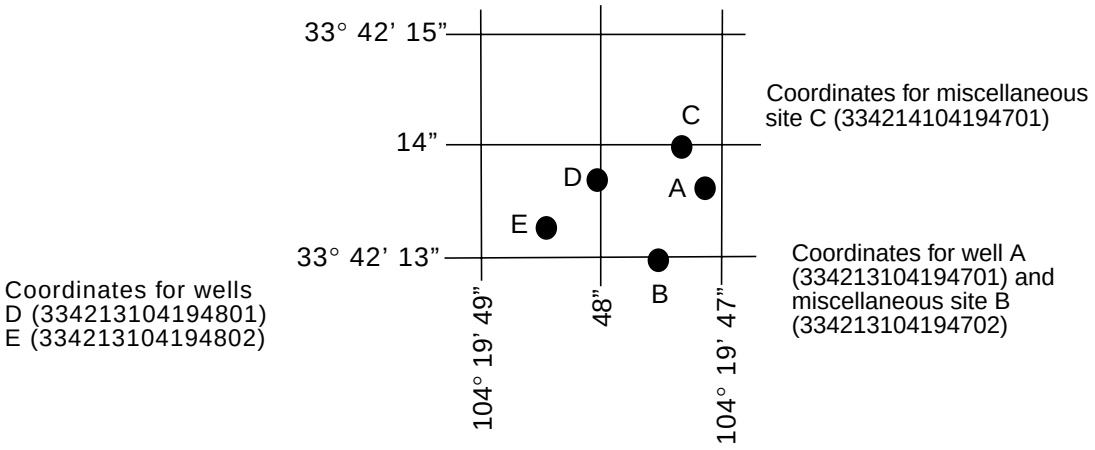


Figure 3.--System for assigning latitude-longitude numbers to wells, springs, and miscellaneous sites.

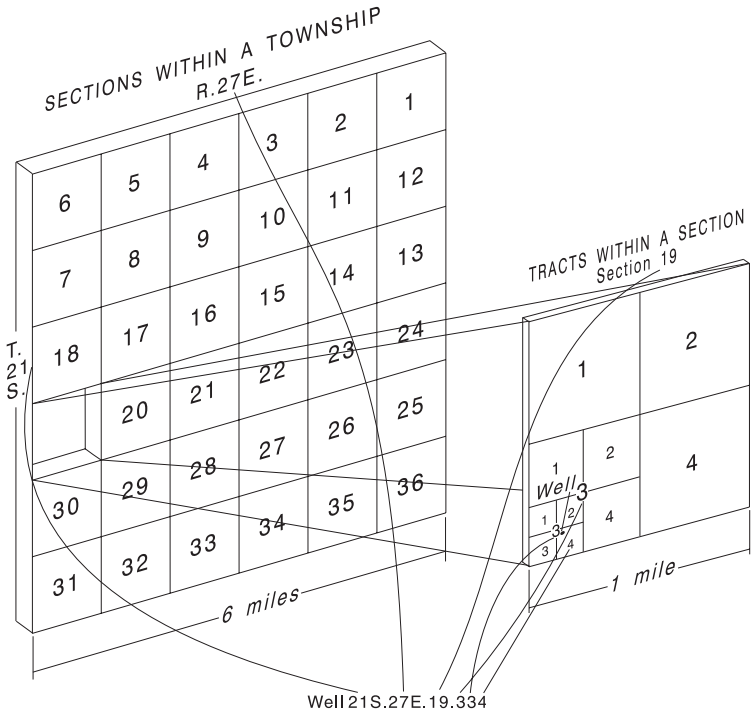


Figure 4.--New Mexico well-numbering system.

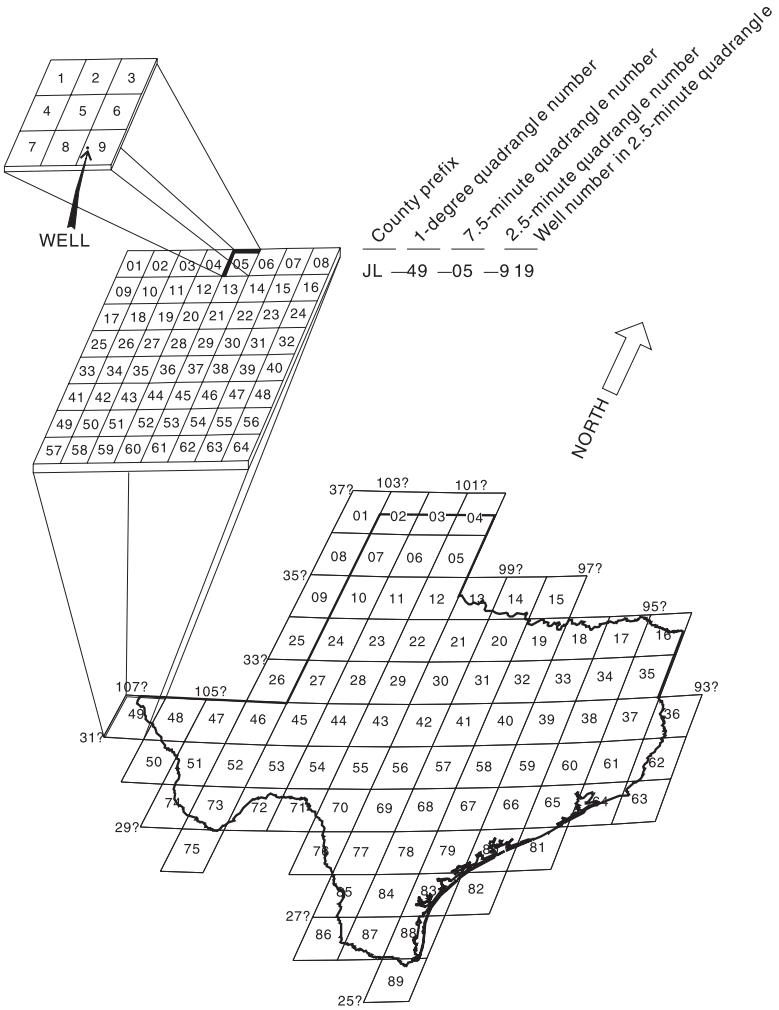


Figure 5.--Texas well-numbering system.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 61 sites in small drainage basins in 39 States that was established in 1963 to provide consistent streamflow data representative of undeveloped watersheds nationwide, and from which data could be analyzed on a continuing basis for use in comparison and contrast with conditions observed in basins more obviously affected by human activities. At selected sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program may be accessed from *http://water.usgs.gov/hbn/*.

National Stream-Quality Accounting Network (NASQAN) is a network of sites used to monitor the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande river basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia Rivers so that a network of five stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment (NAWQA) Program; (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program may be accessed from *http://water.usgs.gov/nasqan/*.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) is a network of monitoring sites that provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from this network of 250 precipitation-chemistry monitoring sites. The USGS supports 74 of these 250 sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as data from the individual sites, may be accessed from *http://bqs.usgs.gov/acidrain/*.

The USGS National Water-Quality Assessment (NAWQA) Program 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 42 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 is 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 water-resources managers to use in

making decisions 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 may be accessed from *http://water.usgs.gov/nawqa/*.

The USGS National Streamflow Information Program (NSIP) is a long-term program with goals to provide framework streamflow data across the Nation. Included in the program are creation of a permanent Federally funded streamflow network, research on the nature of streamflow, regional assessments of streamflow data and databases, and upgrades in the streamflow information delivery systems. Additional information about NSIP may be accessed from *http://water.usgs.gov/nsip/*.

EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

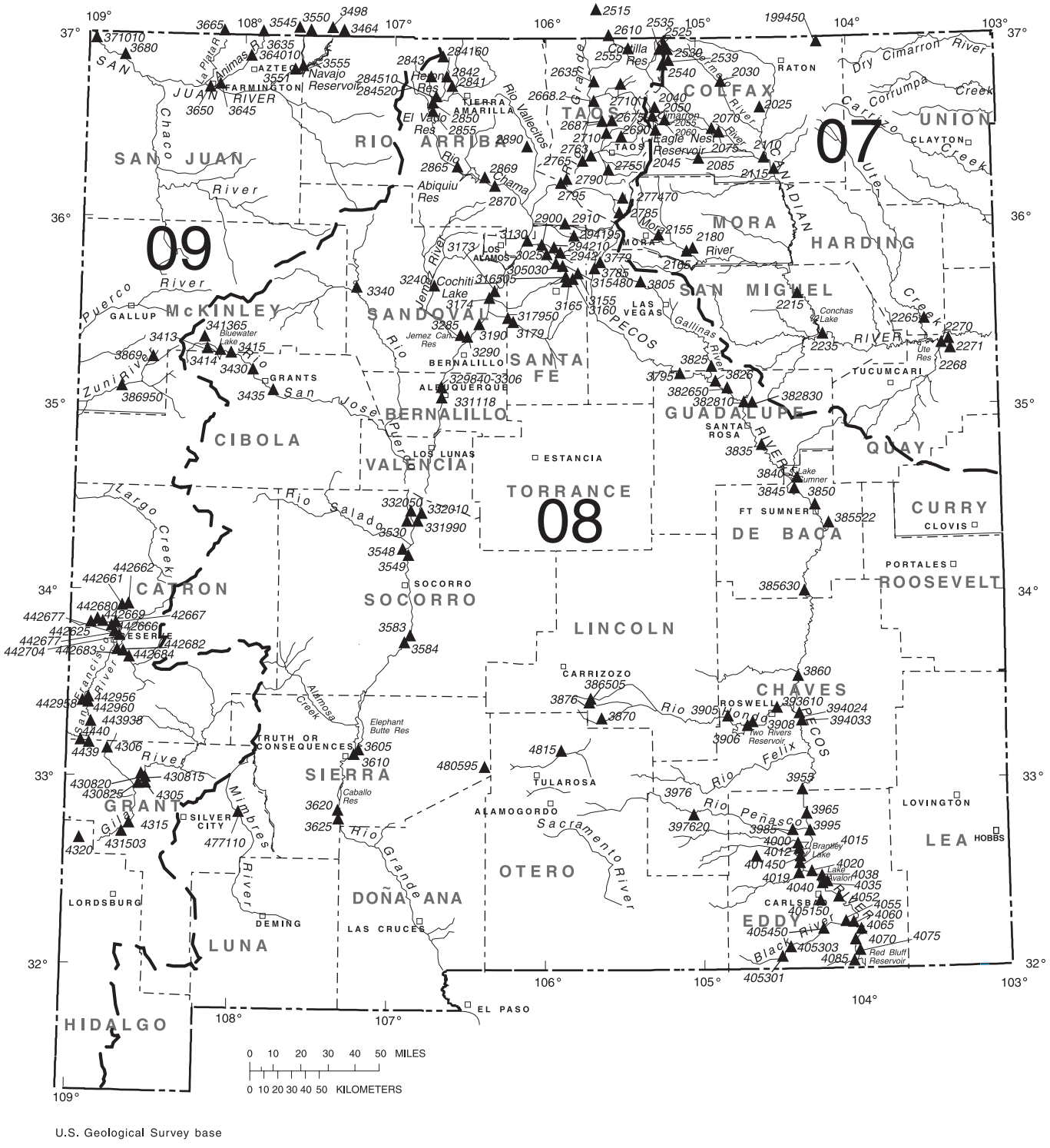
Data Collection and Computation

The base data collected at gaging stations (fig. 6) consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and volume of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that is either downloaded electronically in the field to a laptop computer or similar device or is transmitted using telemetry such as GOES satellite, land-line or cellular-phone modems, or by radio transmission. Measurements of discharge are made with a current meter or acoustic Doppler current profiler, using the general methods adopted by the USGS. These methods are described in standard textbooks, USGS Water-Supply Paper 2175, and the Techniques of Water-Resources Investigations of the United States Geological Survey (TWRIs), Book 3, Chapters A1 through A19 and Book 8, Chapters A2 and B2, which may be accessed from *http://water.usgs.gov/pubs/twri/*. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standardization (ISO).

Rating classifications for continuous water-quality records

[≤, less than or equal to; ±, plus or minus value shown; °C, degree Celsius; >, greater than; %, percent; mg/L, milligram per liter; pH unit, standard pH unit]

Measured physical property	Rating			
	Excellent	Good	Fair	Poor
Water temperature	≤ ±0.2 °C	> ±0.2 to 0.5 °C	> ±0.5 to 0.8 °C	> ±0.8 °C
Specific conductance	≤ ±3%	> ±3 to 10%	> ±10 to 15%	> ±15%
Dissolved oxygen	≤ ±0.3 mg/L	> ±0.3 to 0.5 mg/L	> ±0.5 to 0.8 mg/L	> ±0.8 mg/L
pH	≤ ±0.2 unit	> ±0.2 to 0.5 unit	> ±0.5 to 0.8 unit	> ±0.8 unit
Turbidity	≤ ±5%	> ±5 to 10%	> ±10 to 15%	> ±15%



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

401450▲ GAGING STATION AND NUMBER--

Number by symbol is abbreviated station number. Complete national station number is: 08 401450

Basin number + station number

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

For stream-gaging stations, discharge-rating tables for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, the extensions are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily values. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features of the stream channel, the daily mean discharge is computed by the shifting-control method in which correction factors based on individual discharge measurements and notes by engineers and observers are used when applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the controlling section, the daily mean discharge is computed by the shifting-control method.

The stage-discharge relation at some stream-gaging stations is affected by backwater from reservoirs, tributary streams, or other sources. Such an occurrence 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 at some distance from the base gage.

An index velocity is measured using ultrasonic or acoustic instruments at some stream-gaging stations and this index velocity is used to calculate an average velocity for the flow in the stream. This average velocity along with a stage-area relation is then used to calculate average discharge.

At some stations, 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.

At some stream-gaging stations in the northern United States, the stage-discharge relation is affected by ice in the winter; therefore, computation of the discharge in the usual manner is impossible. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter-discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge from other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the volume or contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly changes are computed.

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

For some stream-gaging stations, periods of time occur when no gage-height record is obtained or the recorded gage height is faulty and cannot be used to compute daily discharge or contents. Such a situation can happen when the recorder stops or otherwise fails to operate properly, the intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records from other stations in the same or nearby basins. Likewise, lake or reservoir volumes may be estimated on the basis of operator’s log, prior and subsequent records, inflow-outflow studies, and other information.

Data Presentation

The records published for each continuous-record surface-water discharge station (stream-gaging station) consist of five parts: (1) the station manuscript or description; (2) the data table of daily mean values of discharge for the current water year with summary data; (3) a tabular statistical summary of monthly mean flow data for a designated period, by water year; (4) a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration; and (5) a hydrograph of discharge.

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 follow that clarify information presented under the various headings of the station description.

LOCATION.—Location information 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, given for only a few stations, were determined by methods given in “River Mileage Measurement,” Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

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

PERIOD OF RECORD.—This term indicates the time 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 its flow reasonably can be considered equivalent to flow at the present station.

REVISED RECORDS.—If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

GAGE.—The type of gage in current use, the datum of the current gage referred to a standard datum, and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.—All periods of estimated daily discharge either will be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See section titled Identifying Estimated Daily Discharge.) Information is presented 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, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, the outlet works and spillway, and the purpose and use of the reservoir.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.—Information here documents 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 USGS.

REVISIONS.—Records are revised if errors in published records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based

National data system, NWISWeb (*http://water.usgs.gov/nwis/nwis*). Users are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent data updates. Updates to NWISWeb are made on an annual basis.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because no current or, possibly, future station manuscript would be published for these stations 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. If, however, the data for a discontinued station were obtained by computer retrieval, the data would be current. Any published revision of data is always accompanied by revision of the corresponding data in computer storage.

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

Peak Discharge Greater than Base Discharge

Tables of peak discharge above base discharge are included for some stations where secondary instantaneous peak discharge data are used in flood-frequency studies of highway and bridge design, flood-control structures, and other flood-related projects. The base discharge value is selected so an average of three peaks a year will be reported. This base discharge value has a recurrence interval of approximately 1.1 years or a 91-percent chance of exceedence in any 1 year.

Data Table of Daily Mean Values

The daily table of discharge records for stream-gaging 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 arithmetic 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 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). Values for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if extensive regulation or diversion is in effect 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 volumes are given. These values are identified by a symbol and a corresponding footnote.

Statistics of Monthly Mean Data

A tabular summary of the mean (line headed MEAN), maximum (MAX), and minimum (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 values. 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. The designated period will consist of all of the station record within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are 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 records within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are 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 the dates of occurrence do not fall within the selected water years listed in the heading, 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 extensive regulation or diversion of flow is in effect in the drainage basin.

The following summary statistics data are provided with each continuous record of discharge. Comments that 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.

ANNUAL MEAN.—The arithmetic mean for the individual daily mean discharges for the year noted or for the designated period.

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.

MAXIMUM PEAK FLOW.—The maximum instantaneous peak discharge occurring for the water year or designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

MAXIMUM PEAK STAGE.—The maximum instantaneous peak stage occurring for the water year or designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the manuscript or in a footnote. If the dates of occurrence of the maximum peak stage and maximum peak flow are different, 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 equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per square mile (CFSM) 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.

Inches (INCHES) indicate 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 (fig. 7) follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first table lists annual maximum stage and discharge at crest-stage stations, and the second table lists discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are often made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for a special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

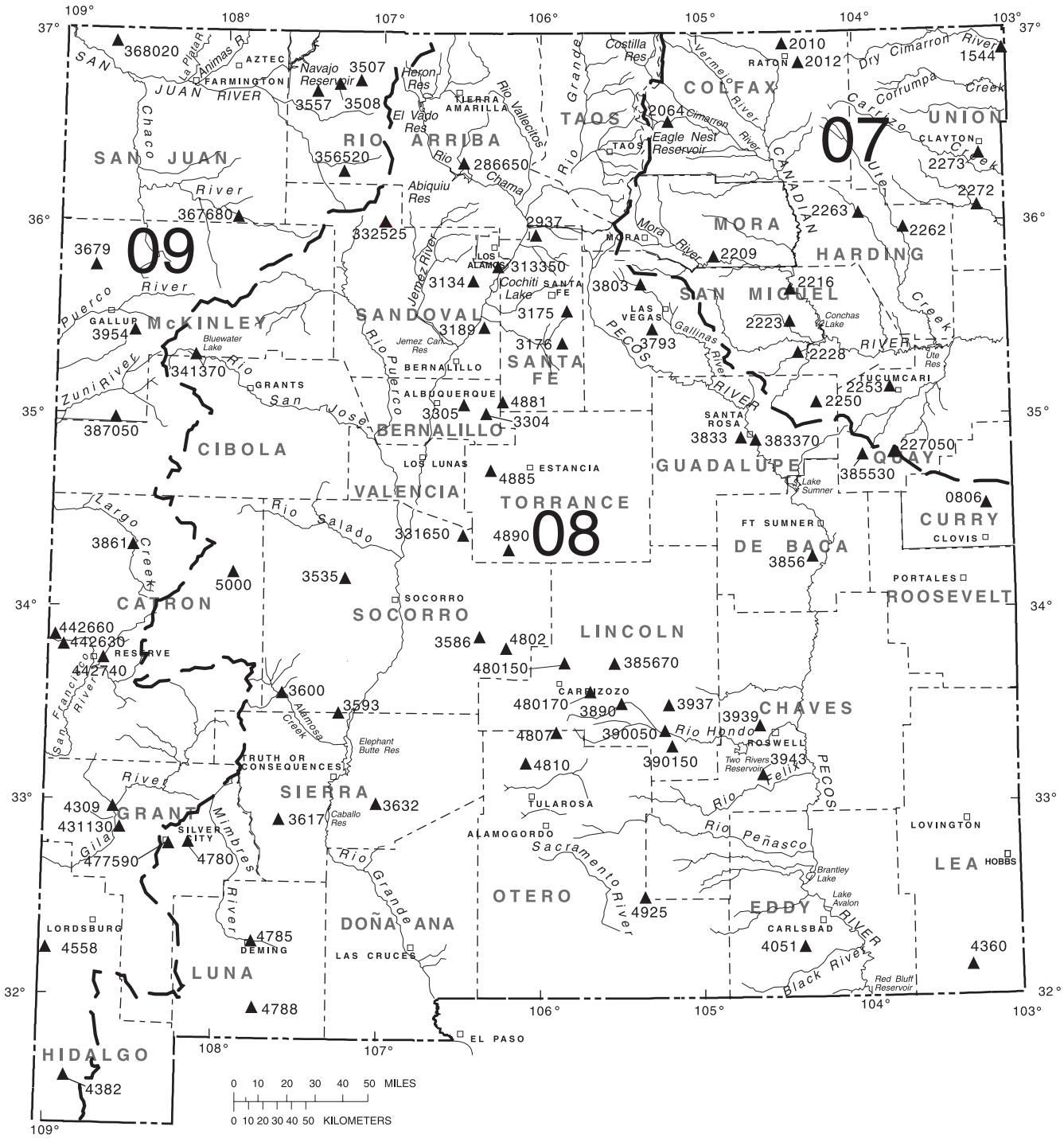
Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified. This identification is shown either by flagging individual daily values with the letter “e” and noting in a table footnote, “e–Estimated,” or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data 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 observations of stage, measurements of discharge, and interpretations of records.

The degree of accuracy of the records is stated in the REMARKS in the station description. “Excellent” indicates that about 95 percent of the daily discharges are within 5 percent of the true value; “good” within 10 percent; and “fair,” within 15 percent. “Poor” indicates that daily discharges have less than “fair” accuracy. Different accuracies may be attributed to different parts of a given record.

Values of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to the nearest tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharge values listed for partial-record 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.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, values of cubic feet per second per square mile and of 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 Data Records Available

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

Information on the availability of unpublished data or statistical analyses may be obtained from the District office (see address that is shown on the back of the title page of this report).

EXPLANATION OF PRECIPITATION RECORDS

Data Collection and Computation

Rainfall data generally are collected using electronic data loggers that measure the rainfall in 0.01-inch increments every 15 minutes using either a tipping-bucket rain gage or a collection well gage. Twenty-four hour rainfall totals are tabulated and presented. A 24-hour period extends from just past midnight of the previous day to midnight of the current day. Snowfall-affected data can result during cold weather when snow fills the rain-gage funnel and then melts as temperatures rise. Snowfall-affected data are subject to errors. Missing values are indicated by this symbol "---" in the table.

Data Presentation

Precipitation records collected at surface-water gaging stations are identified with the same station number and name as the stream-gaging station. Where a surface-water daily-record station is not available, the precipitation record is published with its own name and latitude-longitude identification number.

Information pertinent to the history of a precipitation station is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, period of record, and general remark.

The following information is provided with each precipitation station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

INSTRUMENTATION.—Information on the type of rainfall collection system is given.

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

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analysis usually are collected at or near stream-gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, water temperature, sediment discharge, and so forth); extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, sampling date, or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from *http://water.usgs.gov/pubs/twri/*.

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 at several verticals to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

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

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values (and sometimes mean or median values) for each constituent measured, and are based on 15-minute or 1-hour intervals of recorded data beginning at 0000 hours and ending at 2400 hours for the day of record.

SURFACE-WATER-QUALITY RECORDS

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because discharge data are useful in the interpretation of surface-water quality. Records of surface-water quality in this report involve a variety of types of data and measurement frequencies.

Classification of Records

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

A careful distinction needs to be made between *continuous records* as used in this report and *continuous recordings* that refer to a continuous graph or a series of discrete values recorded at short intervals. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figure 8.

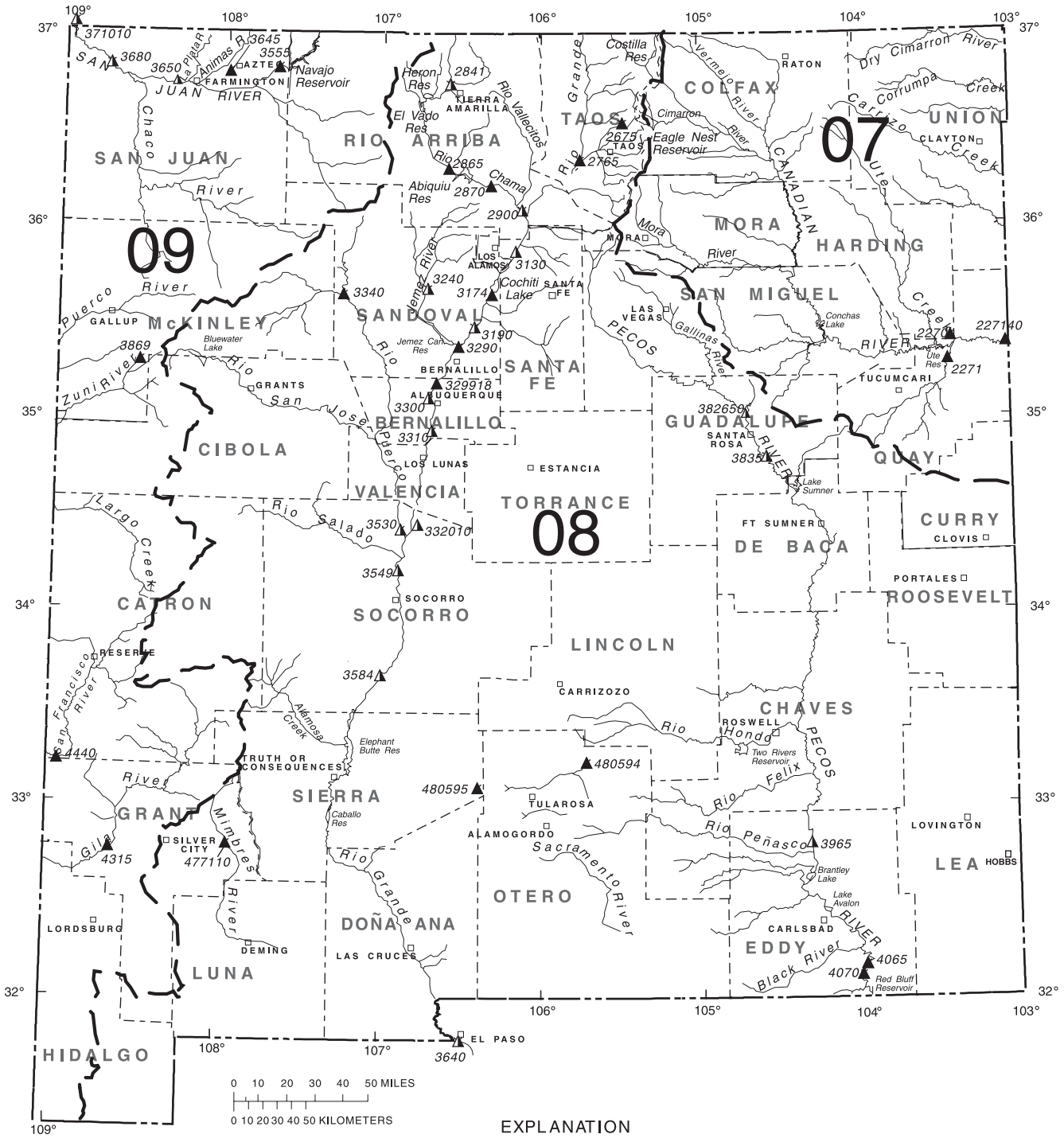


Figure 8.--Location of active surface-water-quality gaging stations.

Accuracy of the Records

One of four accuracy classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. The accuracy rating is based on data values recorded before any shifts or corrections are made. Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

Arrangement of Records

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

On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the naturally occurring quality of the water. To ensure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the naturally occurring water, carefully prescribed procedures must be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1-A9. Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from *http://water.usgs.gov/pubs/twri/*. Also, detailed information on collecting, treating, and shipping samples can be obtained from the USGS District office (see address that is shown on the back of title page in this report).

Water Temperature

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

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

Sediment

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

During periods of rapidly changing flow or rapidly changing concentration, samples may be collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were 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 are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

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

Laboratory Measurements

Samples for biochemical oxygen demand (BOD) and indicator bacteria are analyzed locally. All other samples are analyzed in the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chapter C1. Methods used by the USGS laboratories are given in the TWRIs, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. The TWRI publications may be accessed from *http://water.usgs.gov/pubs/twri/*. These methods are consistent with ASTM standards and generally follow ISO standards.

Data Presentation

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

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

LOCATION.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

DRAINAGE AREA.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

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

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

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

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES.—Maximums and minimums are given only for parameters measured daily or more frequently. For parameters measured weekly or less frequently, true maximums or minimums may not have been obtained. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.—Records are revised if errors in published water-quality records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based National data system, NWISWeb (*http://waterdata.usgs.gov/nwis*). Users of USGS water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent updates. Updates to the NWISWeb are made on an annual basis.

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

Remark Codes

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

Printed Output	Remark
E	Value is estimated.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
M	Presence of material verified, but not quantified.
N	Presumptive evidence of presence of material.
U	Material specifically analyzed for, but not detected.
A	Value is an average.
V	Analyte was detected in both the environmental sample and the associated blanks.
S	Most probable value.

Water-Quality Control Data

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-MDLs) and laboratory reporting levels (LRLs). 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. Falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is not present is 1 percent or less. Application of the LRL limits the occurrence of false negative error. The chance of falsely reporting a non-detection for a sample in which the analyte is present at a concentration equal to or greater than the LRL is 1 percent or less.

Accordingly, concentrations are reported as less than LRL for samples in which the analyte was either not detected or did not pass identification. Analytes detected at concentrations between the LT-MDL and the LRL and that pass identification criteria are estimated. Estimated 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 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 office 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. These data are not presented in this report but are available from the District office.

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated in the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes 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. Many types of blank samples are possible; each is designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this district are:

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

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

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

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

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

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

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

Reference Samples

Reference material is a solution or material prepared by a laboratory. The reference material 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. Many types of replicate samples are 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:

Concurrent samples—A type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating the collection of samples into two or more compositing containers.

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 subsamples, each subsample 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.

EXPLANATION OF GROUND-WATER-LEVEL RECORDS

Generally, only ground-water-level data from selected wells with continuous recorders from a basic network of observation wells are published in this report. This basic network contains observation wells located so that the most significant data are obtained from the fewest wells in the most important aquifers.

Site Identification Numbers

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is produced for local needs. (See NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES in this report for a detailed explanation.)

Data Collection and Computation

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Most methods for collecting and analyzing water samples are described in the TWRIs referred to in the On-site Measurements and Sample Collection and the Laboratory Measurements sections in this report. In addition, TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1 through A9. The TWRI publications may be accessed from *http://water.usgs.gov/pubs/twri/*. The values in this report represent water-quality conditions at the time of sampling, as much as possible, and that are consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. Trained personnel collected all samples. The wells sampled were pumped long enough to ensure 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.

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 above sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

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

Data Presentation

Water-level data are presented in alphabetical order by county. The primary identification number for a given well is the 15-digit site identification number that appears in the upper left corner of the table. The secondary identification number is the local or county well number. Well locations are shown in figure 9*;* each well is identified on the map by its local well or county well number.

Each well record consists of three parts: the well description, the data table of water levels observed during the water year, and, for most wells, a hydrograph following the data table. Well descriptions are presented in the headings preceding the tabular data.

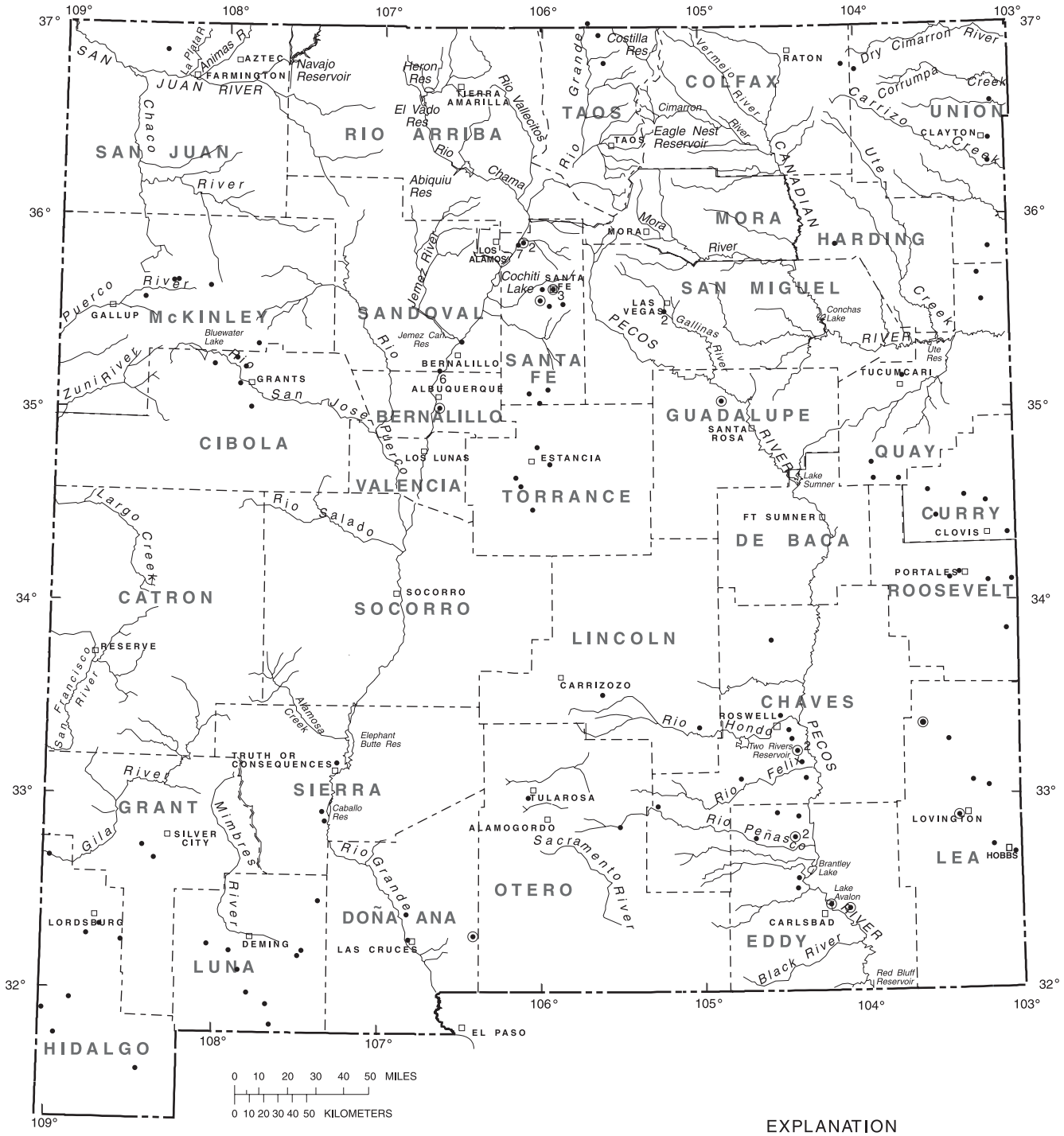


Figure 9.--Location of observation wells.

The following comments clarify information presented in these various headings.

LOCATION.—This paragraph follows the well-identification number and reports the hydrologic-unit number and a geographic point of reference. Latitudes and longitudes used in this report are reported as North American Datum of 1927 unless otherwise specified.

AQUIFER.—This entry designates by name and geologic age the aquifer that the well taps.

WELL CHARACTERISTICS.—This entry describes the well in terms of depth, casing diameter and depth or screened interval, method of construction, use, and 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 continuous, monthly, or some other frequency of measurement.

DATUM.—This entry describes both the measuring point and the land-surface elevation at the well. The altitude of the land-surface datum is described in feet above the altitude datum; it is reported with a precision depending on the method of determination. The measuring point is described physically (such as top of casing, top of instrument shelf, and so forth), 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 National Geodetic Vertical Datum of 1929 (NGVD 29); 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, when various methods of measurement were begun, and the network (climatic, terrane, local, or areal effects) or the special project to which the well belongs.

PERIOD OF RECORD.—This entry indicates the time period for which records are published for the well, the month and year at the start of publication of water-level records by the USGS, and the words "to current year" if the records are to be continued into the following year. Time periods for which water-level records are available, but are not published by the USGS, may be noted.

EXTREMES FOR PERIOD OF RECORD.—This entry contains the highest and lowest instantaneously recorded or measured water levels of the period of published record, with respect to land-surface datum or sea level, and the dates of occurrence.

Water-Level Tables

A table of water levels follows the well description for each well. Water-level measurements in this report are given in feet with reference to either sea level or land-surface datum (lsd). Missing records are indicated by dashes in place of the water-level value.

For wells not equipped with recorders, water-level measurements were obtained periodically by steel or electric tape. Tables of periodic water-level measurements in these wells show the date of measurement and the measured water-level value.

Hydrographs

Hydrographs are a graphic display of water-level fluctuations over a period of time. In this report, current water year and, when appropriate, period-of-record hydrographs are shown. Hydrographs that display periodic water-level measurements show points that may be connected with a dashed line from one measurement to the next. Hydrographs that display recorder data show a solid line representing the mean water level recorded for each day. Missing data are indicated by a blank space or break in a hydrograph. Missing data may occur as a result of recorder malfunctions, battery failures, or mechanical problems related to the response of the recorder's float mechanism to water-level fluctuations in a well.

GROUND-WATER-QUALITY DATA

Data Collection and Computation

The ground-water-quality data in this report were obtained as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some wells within a county but not for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality statewide.

Most methods for collecting and analyzing water samples are described in the TWRIs, which may be accessed from *http://water.usgs.gov/pubs/twri/*. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRI, Book 1, Chapter D2; Book 5, Chapters A1, A3, and A4; and Book 9, Chapters A1-A6. Also, detailed information on collecting, treating, and shipping samples may be obtained from the USGS District office (see address shown on back of title page in this report).

Laboratory Measurements

Analysis for sulfide and measurement of alkalinity, pH, water temperature, specific conductance, and dissolved oxygen are performed on site. All other sample analyses are performed at the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used by the USGS laboratory are given in TWRI, Book 1, Chapter D2; and Book 5, Chapters A1, A3, and A4, which may be accessed from *http://water.usgs.gov/pubs/twri/*.

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 from *http://water.usgs.gov*.

Water-quality data and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on various media. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each Water Discipline District Office. (See address that is shown on the back of the title page of this report.)

DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, may be accessed from http://water.usgs.gov/ADR_Defs_2004.pdf. Terms such as algae, water level, and precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) units. Other glossaries that also define water-related terms are accessible from http://water.usgs.gov/glossaries.html.

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. Datum 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, 3,760 acre-ft, Apr. 29, 30, and May 5, elevation, 7,511.56 ft; minimum contents, 3,360 acre-ft, Feb. 16-20, elevation 7,508.26 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,480	3,480	3,470	3,420	3,390	3,380	3,390	3,750	3,510	3,550	3,690	3,670
2	3,480	3,480	3,470	3,420	3,390	3,380	3,400	3,750	3,510	3,560	3,690	3,670
3	3,490	3,480	3,470	3,420	3,390	3,380	3,410	3,750	3,510	3,560	3,690	3,660
4	3,490	3,480	3,470	3,410	3,390	3,370	3,420	3,760	3,510	3,560	3,700	3,670
5	3,490	3,480	3,460	3,410	3,390	3,370	3,420	3,750	3,510	3,560	3,720	3,660
6	3,490	3,480	3,460	3,410	3,380	3,370	3,420	3,740	3,510	3,560	3,710	3,660
7	3,490	3,480	3,460	3,410	3,380	3,370	3,430	3,740	3,510	3,560	3,710	3,650
8	3,490	3,480	3,460	3,400	3,380	3,370	3,440	3,730	3,510	3,560	3,710	3,650
9	3,490	3,480	3,470	3,400	3,370	3,370	3,460	3,720	3,510	3,560	3,700	3,650
10	3,490	3,480	3,470	3,410	3,370	3,380	3,470	3,710	3,500	3,570	3,700	3,640
11	3,490	3,480	3,470	3,420	3,370	3,380	3,480	3,700	3,480	3,590	3,700	3,640
12	3,490	3,480	3,470	3,420	3,370	3,390	3,490	3,690	3,470	3,590	3,700	3,630
13	3,490	3,480	3,460	3,430	3,370	3,390	3,500	3,690	3,460	3,590	3,700	3,630
14	3,490	3,480	3,460	3,430	3,370	3,400	3,510	3,690	3,460	3,590	3,700	3,620
15	3,480	3,480	3,460	3,430	3,360	3,400	3,530	3,690	3,460	3,590	3,690	3,620
16	3,480	3,480	3,460	3,430	3,360	3,400	3,560	3,680	3,460	3,610	3,690	3,610
17	3,480	3,490	3,450	3,430	3,360	3,410	3,570	3,680	3,460	3,630	3,690	3,610
18	3,480	3,490	3,450	3,420	3,360	3,410	3,590	3,660	3,460	3,640	3,690	3,610
19	3,480	3,490	3,450	3,420	3,360	3,410	3,600	3,650	3,470	3,650	3,690	3,620
20	3,480	3,490	3,440	3,420	3,360	3,420	3,600	3,640	3,470	3,650	3,690	3,610
21	3,480	3,490	3,440	3,420	3,370	3,420	3,610	3,630	3,490	3,650	3,690	3,610
22	3,480	3,490	3,440	3,420	3,370	3,420	3,620	3,610	3,490	3,660	3,690	3,610
23	3,480	3,490	3,440	3,410	3,370	3,420	3,640	3,600	3,500	3,660	3,690	3,600
24	3,480	3,490	3,440	3,410	3,370	3,420	3,660	3,580	3,500	3,670	3,690	3,600
25	3,480	3,480	3,440	3,410	3,370	3,420	3,680	3,570	3,510	3,680	3,680	3,600
26	3,480	3,480	3,430	3,410	3,370	3,420	3,710	3,550	3,510	3,680	3,680	3,590
27	3,480	3,480	3,430	3,410	3,370	3,420	3,740	3,530	3,530	3,690	3,680	3,590
28	3,480	3,480	3,430	3,400	3,370	3,420	3,750	3,530	3,540	3,690	3,680	3,600
29	3,480	3,480	3,430	3,400	3,380	3,410	3,750	3,530	3,540	3,690	3,680	3,600
30	3,480	3,480	3,420	3,400	---	3,410	3,750	3,520	3,550	3,690	3,680	3,600
31	3,470	---	3,420	3,390	---	3,410	---	3,520	---	3,690	3,680	---
MAX	3,490	3,490	3,470	3,430	3,390	3,420	3,750	3,760	3,550	3,690	3,720	3,670
MIN	3,470	3,480	3,420	3,390	3,360	3,370	3,390	3,520	3,460	3,550	3,680	3,590
(+)	7,509.20	7,509.21	7,508.78	7,508.54	7,508.42	7,508.63	7,511.52	7,509.55	7,509.82	7,511.03	7,510.88	7,510.29
(++)	-10	+10	-60	-30	-10	+30	+340	-230	+30	+140	-10	-80
(+++)	9	18	97	98	99	139	116	162	52	10	114	148
(++++)	0	0	0	0	0	0	0	287	50	0	0	0

CAL YR 2003 MAX 3,820 MIN 3,260 (++) +100 (+++) 661 (++++) 490
WTR YR 2004 MAX 3,760 MIN 3,360 (++) +120 (+++) 1,062 (++++) 337

07202500 EAGLE TAIL DITCH NEAR MAXWELL, NM

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

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

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

REMARKS.--Records fair. 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36	0.00	0.11	1.1	0.33
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28	0.00	0.18	0.09	0.28
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33	0.00	0.00	0.00	0.27
4	0.00	0.00	0.00	0.00	0.00	0.00	0.99	34	0.00	0.00	0.00	0.15
5	0.00	0.00	0.00	0.00	0.00	0.00	0.46	30	0.00	0.00	54	0.05
6	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	31	0.00	0.00	69	0.06
7	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	0.00	0.00	70	0.00
8	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	19	0.00	0.00	72	0.00
9	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	15	0.00	0.00	34	0.00
10	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.6	0.00	0.00	14	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.6	0.00	13	16	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.0	0.00	28	11	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.5	0.00	3.3	42	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.4	0.00	0.86	60	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.1	0.00	0.01	31	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.4	0.00	0.00	9.0	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.9	0.00	1.4	4.8	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.5	0.00	23	3.1	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.1	51	26	30	0.63
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.9	43	3.8	6.0	8.2
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	2.5	1.8	19	2.4
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.6	12	0.32	16	5.3
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.5	15	1.0	4.3	6.6
24	0.00	0.00	0.00	0.00	0.00	0.00	0.41	2.5	0.31	4.2	3.1	2.8
25	0.00	0.00	0.00	0.00	0.00	0.00	0.01	2.3	13	1.7	2.0	4.6
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.3	1.5	0.49	1.4	4.2
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.02	0.14	0.74	1.5
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.2	0.00	5.9	0.62	1.0
29	0.00	0.00	0.00	0.00	0.00	0.00	13	1.6	4.4	4.5	0.61	0.69
30	0.00	0.00	0.00	0.00	---	0.00	38	0.24	1.5	0.24	0.46	0.53
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.82	0.42	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	52.87	325.14	144.23	120.77	575.74	39.59
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	1.76	10.5	4.81	3.90	18.6	1.32
MAX	0.00	0.00	0.00	0.00	0.00	0.00	38	36	51	28	72	8.2
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	105	645	286	240	1,140	79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2004, BY WATER YEAR (WY)

MEAN	1.86	2.20	2.05	2.10	2.60	5.16	11.9	18.8	9.66	5.68	9.04	3.76
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
(WY)	(1976)	(1946)	(1946)	(1946)	(1981)	(1986)	(1978)	(2002)	(1946)	(2003)	(2003)	(1946)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1945 - 2004	
ANNUAL TOTAL	2,093.73		1,258.34			
ANNUAL MEAN	5.74		3.44		6.48	
HIGHEST ANNUAL MEAN					17.8	1984
LOWEST ANNUAL MEAN					0.32	2002
HIGHEST DAILY MEAN	139	Apr 24	72	Aug 8	a217	Aug 27, 1946
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	May 16, 1945
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	May 16, 1945
MAXIMUM PEAK FLOW			107	Jun 19	375	May 30, 1995
MAXIMUM PEAK STAGE			3.36	Jun 19	5.15	May 30, 1995
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	May 16, 1945
ANNUAL RUNOFF (AC-FT)	4,150		2,500		4,690	
10 PERCENT EXCEEDS	18		8.4		16	
50 PERCENT EXCEEDS	0.00		0.00		1.2	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

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

07203000 VERMEJO RIVER NEAR DAWSON, NM

LOCATION.--Lat 36°40'48", long 104°47'09", Colfax County, Hydrologic Unit 11080001, in Maxwell Grant, on right bank 1.3 mi north of Dawson, 2.3 mi upstream from Rail Canyon, and at mile 28.2.

DRAINAGE AREA.--301 mi^2.

PERIOD OF RECORD.--October 1915 to July 1918, April 1919 to May 1923, March 1927 to current year. Monthly discharge only for some periods, published in WSP 1311.

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

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. 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. Sept. 24, 1953, to May 21, 2002, at site 200 ft downstream at same datum.

REMARKS.--Records good except for those estimated, which are poor. Diversions for irrigation of small acreage and mountain meadows upstream from station. Several observations of water temperature were made during the 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	4.4	5.0	e4.2	e6.0	e3.2	7.8	75	33	24	23	23
2	4.5	4.4	4.1	4.8	e5.4	e4.0	9.8	93	31	15	19	19
3	5.3	4.5	e4.0	4.8	e5.8	e4.5	28	82	31	11	16	18
4	8.6	4.4	e4.0	e4.0	e5.6	e4.2	27	78	30	9.2	14	18
5	8.2	4.2	3.7	e3.4	e5.4	e4.3	20	86	23	8.6	40	21
6	7.1	3.9	4.3	e3.0	e5.2	e4.0	18	94	20	7.8	108	17
7	6.8	4.2	5.6	e4.4	e7.0	3.8	16	103	22	6.7	175	15
8	10	4.6	e4.6	e5.5	e8.0	4.1	18	108	17	6.1	88	14
9	6.7	4.7	e4.0	e6.5	6.6	4.4	18	105	16	5.2	54	13
10	5.9	4.5	e3.8	e6.0	7.5	4.8	17	104	14	6.4	43	13
11	5.5	4.5	e4.6	e6.1	e6.0	5.5	19	105	14	35	32	12
12	5.3	4.5	e3.2	9.6	e7.1	5.6	17	105	12	18	114	11
13	5.0	5.9	e3.4	7.7	5.8	5.3	16	98	12	12	226	11
14	4.7	5.8	e3.6	6.6	e6.8	5.8	16	88	13	8.5	96	11
15	4.7	5.7	e4.0	8.2	e10	5.8	18	79	11	6.7	123	10
16	4.6	5.0	e3.4	5.3	9.4	5.8	18	73	12	9.0	76	9.6
17	4.5	4.8	e3.8	5.1	7.4	5.7	20	71	12	22	49	9.6
18	4.5	4.7	e3.6	e4.6	6.1	5.6	21	60	9.6	74	36	9.2
19	4.4	4.3	e3.7	3.6	5.7	5.6	24	62	12	58	55	12
20	4.3	4.3	e3.4	3.0	4.9	5.6	24	56	15	30	188	12
21	4.2	e4.1	e5.5	3.8	4.2	6.0	24	54	15	26	146	11
22	4.1	e4.0	e3.6	5.2	3.4	6.4	25	55	15	18	87	10
23	4.1	e3.4	e3.8	7.2	3.2	6.8	36	53	15	22	63	9.6
24	3.9	e3.8	e3.9	6.2	e3.4	7.3	31	45	15	38	43	9.7
25	4.3	e2.8	e3.6	5.1	e2.8	7.8	41	40	15	74	29	11
26	4.5	e2.7	e4.3	e4.8	e4.5	8.1	35	34	17	101	21	10
27	4.2	e2.6	e4.0	e5.2	e4.6	8.6	38	30	18	174	19	10
28	4.9	e2.6	e3.8	e6.8	e4.9	9.0	60	37	18	70	17	10
29	4.7	e3.0	e3.0	e7.7	5.1	8.6	58	37	21	59	61	11
30	4.4	e3.4	e3.1	9.9	---	8.2	69	35	28	45	28	10
31	4.3	---	e4.0	e8.0	---	8.1	---	34	---	31	23	---
TOTAL	162.8	125.7	122.4	176.3	167.8	182.5	789.6	2,179	536.6	1,031.2	2,112	380.7
MEAN	5.25	4.19	3.95	5.69	5.79	5.89	26.3	70.3	17.9	33.3	68.1	12.7
MAX	10	5.9	5.6	9.9	10	9.0	69	108	33	174	226	23
MIN	3.9	2.6	3.0	3.0	2.8	3.2	7.8	30	9.6	5.2	14	9.2
AC-FT	323	249	243	350	333	362	1,570	4,320	1,060	2,050	4,190	755

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2004, BY WATER YEAR (WY)

MEAN	8.83	6.88	5.74	5.58	6.33	6.78	21.2	51.6	35.2	29.1	40.9	18.1
MAX	51.6	30.5	25.5	16.6	16.7	34.8	370	372	179	138	178	109
(WY)	(1942)	(1942)	(1995)	(2000)	(1920)	(1987)	(1942)	(1941)	(1965)	(1919)	(1999)	(2002)
MIN	0.15	0.04	0.59	0.65	1.20	0.80	1.21	0.75	0.65	1.85	4.28	0.37
(WY)	(1952)	(1952)	(1952)	(1975)	(1952)	(1951)	(1955)	(2002)	(1946)	(1963)	(2003)	(1951)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1916 - 2004	
ANNUAL TOTAL	2,196.1		7,966.6			
ANNUAL MEAN	6.02		21.8		19.3	
HIGHEST ANNUAL MEAN					89.0	1942
LOWEST ANNUAL MEAN					2.05	1951
HIGHEST DAILY MEAN	23	Jun 6	226	Aug 13	2,340	Apr 23, 1942
LOWEST DAILY MEAN	1.3	Aug 19	2.6	Nov 27	0.00	Nov 21, 1931
ANNUAL SEVEN-DAY MINIMUM	1.9	Feb 4	3.0	Nov 23	0.00	Nov 21, 1931
MAXIMUM PEAK FLOW			1,280	Jul 26	a12,600	Jun 17, 1965
MAXIMUM PEAK STAGE			5.61	Jul 26	15.25	Jun 17, 1965
INSTANTANEOUS LOW FLOW					0.00	Nov 21, 1931
ANNUAL RUNOFF (AC-FT)	4,360		15,800		14,020	
10 PERCENT EXCEEDS	11		61		43	
50 PERCENT EXCEEDS	4.6		8.6		7.7	
90 PERCENT EXCEEDS	2.6		3.9		1.8	

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

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, and about 1,000 ft upstream from high-water line of Eagle Nest Lake at Eagle Nest.

DRAINAGE AREA.--73.8 mi^2.

PERIOD OF RECORD.--April 1928 to October 1955 and June 1964 to current year (seasonal records except water year 1932). Monthly discharge only for some periods, published in WSP 1311. Records for December 1930 to March 1931, published in WSP 732, are unreliable and should not be used. Published as "near Therma," 1928-34.

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

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

REMARKS.--Records fair. Diversions for irrigation of about 1,200 acres upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge during periods of seasonal operation, 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, 51 ft^3/s, at 1815 hours, Apr. 30, gage height, 2.46 ft; minimum daily discharge, 0.00 ft^3/s, many days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	---	---	---	---	---	1.2	41	3.7	0.05	0.30	0.00
2	0.00	---	---	---	---	---	2.7	36	3.5	0.01	0.23	0.00
3	0.00	---	---	---	---	---	5.5	33	3.5	0.00	0.18	0.00
4	0.00	---	---	---	---	---	5.7	32	3.5	0.00	0.14	0.00
5	0.00	---	---	---	---	---	6.0	32	3.2	0.00	0.13	0.00
6	0.00	---	---	---	---	---	6.3	36	3.0	0.00	0.14	0.00
7	0.00	---	---	---	---	---	5.8	40	2.7	0.00	0.23	0.00
8	0.00	---	---	---	---	---	7.8	40	1.9	0.00	0.19	0.00
9	---	---	---	---	---	---	8.1	38	0.51	0.00	0.18	0.00
10	---	---	---	---	---	---	11	31	0.40	0.00	0.14	0.00
11	---	---	---	---	---	---	12	30	0.26	0.00	0.10	0.00
12	---	---	---	---	---	---	11	26	0.21	0.00	0.06	0.00
13	---	---	---	---	---	---	10	25	0.19	0.00	0.06	0.00
14	---	---	---	---	---	---	13	22	0.18	0.00	0.18	0.00
15	---	---	---	---	---	---	17	21	0.17	0.00	0.19	0.00
16	---	---	---	---	---	---	20	20	0.11	0.00	0.07	0.00
17	---	---	---	---	---	---	22	19	0.07	0.01	0.03	0.00
18	---	---	---	---	---	---	23	18	0.05	0.07	0.03	0.00
19	---	---	---	---	---	---	23	17	0.04	0.66	0.15	0.00
20	---	---	---	---	---	---	24	15	0.04	0.47	0.18	0.00
21	---	---	---	---	---	---	22	14	0.03	0.17	0.10	0.00
22	---	---	---	---	---	---	22	14	0.11	0.07	0.08	0.00
23	---	---	---	---	---	---	25	13	0.12	0.18	0.08	0.00
24	---	---	---	---	---	---	27	9.9	0.07	2.3	0.08	0.00
25	---	---	---	---	---	---	31	6.2	0.20	0.58	0.04	0.00
26	---	---	---	---	---	---	26	5.8	0.24	0.60	0.01	0.00
27	---	---	---	---	---	---	29	5.2	0.31	0.41	0.00	0.00
28	---	---	---	---	---	---	33	4.8	0.40	0.50	0.00	0.00
29	---	---	---	---	---	1.6	34	4.3	0.15	0.72	0.00	0.00
30	---	---	---	---	---	1.3	45	4.2	0.29	0.57	0.00	0.00
31	---	---	---	---	---	1.1	---	3.9	---	0.42	0.00	---
TOTAL	---	---	---	---	---	---	529.1	657.3	29.15	7.79	3.30	0.00
MEAN	---	---	---	---	---	---	17.6	21.2	0.97	0.25	0.11	0.00
MAX	---	---	---	---	---	--	45	41	3.7	2.3	0.30	0.00
MIN	---	---	---	---	---	--	1.2	3.9	0.03	0.00	0.00	0.00
AC-FT	---	---	---	---	---	---	1,050	1,300	58	15	6.5	0.00

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 fair. Diversions for irrigation of about 1,000 acres upstream from station. Several observations of water temperature were made during the year.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge during periods of seasonal operation, 26 ft^3/s, Apr. 27, gage height, 3.37 ft; minimum daily discharge, 0.01 ft^3/s, July 15.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.75	---	---	---	---	---	3.8	24	2.2	2.2	2.5	0.98
2	1.0	---	---	---	---	---	5.0	18	2.1	1.1	1.7	1.1
3	1.6	---	---	---	---	---	9.8	16	2.0	0.67	1.4	1.3
4	2.4	---	---	---	---	---	8.8	15	1.9	0.48	1.2	1.2
5	2.3	---	---	---	---	---	7.7	15	1.7	0.43	1.3	1.5
6	1.8	---	---	---	---	---	8.4	14	1.4	0.41	1.4	1.5
7	1.8	---	---	---	---	---	8.8	14	1.0	0.38	1.3	1.1
8	1.7	---	---	---	---	---	12	13	1.0	0.28	0.95	0.98
9	---	---	---	---	---	---	14	12	0.87	0.21	0.77	0.91
10	---	---	---	---	---	---	13	12	0.83	0.14	0.66	0.81
11	---	---	---	---	---	---	13	11	0.87	0.14	0.58	0.74
12	---	---	---	---	---	---	13	9.7	0.69	0.18	0.52	0.71
13	---	---	---	---	---	---	12	9.0	0.62	0.12	0.52	0.70
14	---	---	---	---	---	---	13	8.3	0.61	0.08	0.95	0.66
15	---	---	---	---	---	---	14	8.0	0.59	0.01	2.3	0.61
16	---	---	---	---	---	---	16	7.5	0.62	0.09	2.5	0.59
17	---	---	---	---	---	---	18	6.9	0.56	0.31	1.1	0.60
18	---	---	---	---	---	---	19	6.4	0.47	1.3	0.79	0.65
19	---	---	---	---	---	---	19	5.8	0.42	2.1	1.4	1.4
20	---	---	---	---	---	---	16	5.1	0.39	1.2	2.4	2.6
21	---	---	---	---	---	---	14	4.9	0.34	3.4	1.7	2.2
22	---	---	---	---	---	---	12	4.7	0.38	2.6	1.4	1.5
23	---	---	---	---	---	---	17	4.2	0.59	2.4	0.97	1.2
24	---	---	---	---	---	---	17	3.8	0.63	4.9	0.68	1.2
25	---	---	---	---	---	---	18	3.6	0.58	4.1	0.58	1.2
26	---	---	---	---	---	---	16	3.4	0.73	4.4	0.46	1.3
27	---	---	---	---	---	---	23	3.1	0.77	2.9	0.34	1.5
28	---	---	---	---	---	---	19	3.0	0.87	2.4	0.29	1.4
29	---	---	---	---	---	---	18	2.7	1.1	3.4	0.31	1.7
30	---	---	---	---	---	3.9	22	2.5	2.3	4.8	0.59	1.6
31	---	---	---	---	---	3.8	---	2.4	---	3.5	0.85	---
TOTAL	---	---	---	---	---	---	420.3	269.0	29.13	50.63	34.41	35.44
MEAN	---	---	---	---	---	---	14.0	8.68	0.97	1.63	1.11	1.18
MAX	---	---	---	---	---	--	23	24	2.3	4.9	2.5	2.6
MIN	---	---	---	---	---	--	3.8	2.4	0.34	0.01	0.29	0.59
AC-FT	---	---	---	---	---	---	834	534	58	100	68	70

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 fair. 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 periods of seasonal operation, 19 ft^3/s, July 25, gage height, 1.29 ft; minimum daily discharge, 0 ft^3/s, several days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.01	---	---	---	---	---	0.35	6.0	0.04	0.19	0.25	0.05
2	0.02	---	---	---	---	---	1.3	5.2	0.05	0.16	0.19	0.05
3	0.22	---	---	---	---	---	4.2	4.9	0.07	0.12	0.16	0.04
4	0.26	---	---	---	---	---	3.0	5.4	0.07	0.10	0.13	0.04
5	0.13	---	---	---	---	---	2.6	6.0	0.08	0.08	0.12	0.04
6	0.11	---	---	---	---	---	2.3	6.6	0.09	0.07	0.11	0.03
7	0.12	---	---	---	---	---	2.3	6.3	0.09	0.06	0.10	0.02
8	---	---	---	---	---	---	3.7	5.8	0.08	0.05	0.10	0.01
9	---	---	---	---	---	---	3.6	5.3	0.10	0.04	0.09	0.01
10	---	---	---	---	---	---	3.8	4.4	0.10	0.03	0.08	0.00
11	---	---	---	---	---	---	3.9	3.6	0.10	0.03	0.08	0.00
12	---	---	---	---	---	---	2.7	2.8	0.10	0.02	0.07	0.00
13	---	---	---	---	---	---	2.5	2.1	0.10	0.01	0.07	0.00
14	---	---	---	---	---	---	2.7	1.7	0.10	0.01	0.18	0.00
15	---	---	---	---	---	---	3.4	1.5	0.09	0.01	0.11	0.00
16	---	---	---	---	---	---	4.4	1.2	0.07	0.01	0.10	0.00
17	---	---	---	---	---	---	5.2	1.0	0.06	0.01	0.09	0.00
18	---	---	---	---	---	---	5.2	0.75	0.07	0.02	0.15	0.00
19	---	---	---	---	---	---	5.1	0.67	0.07	0.11	0.28	0.02
20	---	---	---	---	---	---	4.7	0.63	0.07	0.08	0.73	0.02
21	---	---	---	---	---	---	4.3	0.59	0.06	0.18	0.22	0.02
22	---	---	---	---	---	---	4.0	0.54	0.10	0.11	0.19	0.01
23	---	---	---	---	---	---	4.9	0.50	0.09	0.29	0.15	0.01
24	---	---	---	---	---	---	4.1	0.45	0.07	0.32	0.13	0.01
25	---	---	---	---	---	---	3.5	0.42	0.07	2.6	0.11	0.02
26	---	---	---	---	---	---	2.9	0.35	0.07	2.2	0.10	0.03
27	---	---	---	---	---	---	3.4	0.28	0.09	0.31	0.08	0.03
28	---	---	---	---	---	---	5.0	0.18	0.18	0.49	0.07	0.32
29	---	---	---	---	---	---	5.9	0.00	0.23	2.1	0.06	0.11
30	---	---	---	---	---	2.7	7.0	0.01	0.78	1.1	0.06	0.08
31	---	---	---	---	---	1.7	---	0.04	---	0.30	0.06	---
TOTAL	---	---	---	---	---	---	111.95	75.21	3.34	11.21	4.42	0.97
MEAN	---	---	---	---	---	---	3.73	2.43	0.11	0.36	0.14	0.03
MAX	---	---	---	---	---	--	7.0	6.6	0.78	2.6	0.73	0.32
MIN	---	---	---	---	---	--	0.35	0.00	0.04	0.01	0.06	0.00
AC-FT	---	---	---	---	---	---	222	149	6.6	22	8.8	1.9

07205500 EAGLE NEST LAKE NEAR EAGLE NEST, NM

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

DRAINAGE AREA.--167 mi^2.

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

REVISED RECORDS.--WSP 1281: drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 8,056.8 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 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, 30,400 acre-ft, May 16-21, gage height, 111.10 ft; minimum, 25,300 acre-ft, Dec. 17-21, gage height, 107.12 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26,400	25,700	25,600	25,400	25,700	26,100	27,000	29,300	29,500	28,000	26,900	26,200
2	26,400	25,700	25,600	25,400	25,800	26,100	27,200	29,500	29,500	28,000	26,900	26,200
3	26,400	25,800	25,600	25,400	25,700	26,100	27,300	29,500	29,400	27,900	26,900	26,100
4	26,400	25,700	25,500	25,400	25,700	26,200	27,300	29,600	29,400	27,900	26,900	26,100
5	26,400	25,700	25,500	25,400	25,700	26,200	27,300	29,700	29,300	27,800	26,800	26,100
6	26,400	25,700	25,500	25,400	25,800	26,100	27,400	29,800	29,200	27,800	26,800	26,000
7	26,400	25,700	25,500	25,500	25,800	26,200	27,400	29,900	29,200	27,700	26,800	26,000
8	26,400	25,600	25,600	25,500	25,800	26,200	27,500	30,000	29,100	27,600	26,800	26,000
9	26,400	25,700	25,600	25,400	25,800	26,200	27,600	30,000	29,100	27,500	26,800	26,000
10	26,400	25,600	25,600	25,500	25,800	26,300	27,600	30,200	29,000	27,500	26,700	25,900
11	26,300	25,600	25,600	25,500	25,800	26,400	27,700	30,200	28,900	27,400	26,700	25,900
12	26,300	25,700	25,600	25,500	25,800	26,500	27,700	30,200	28,800	27,400	26,700	25,900
13	26,200	25,700	25,600	25,500	25,800	26,500	27,800	30,300	28,800	27,300	26,700	25,800
14	26,200	25,700	25,700	25,500	25,900	26,600	27,900	30,300	28,700	27,200	26,700	25,800
15	26,200	25,700	25,600	25,500	25,900	26,600	27,900	30,300	28,700	27,200	26,600	25,700
16	26,100	25,700	25,500	25,500	25,900	26,700	27,900	30,400	28,600	27,100	26,600	25,700
17	26,100	25,600	25,300	25,500	25,900	26,700	28,000	30,400	28,500	27,000	26,600	25,700
18	26,000	25,700	25,300	25,500	25,900	26,700	28,000	30,400	28,500	27,000	26,500	25,700
19	26,000	25,700	25,300	25,600	25,900	26,800	28,100	30,400	28,400	27,000	26,600	25,700
20	26,000	25,700	25,300	25,600	25,900	26,800	28,200	30,400	28,400	27,000	26,500	25,700
21	25,900	25,700	25,300	25,600	25,900	26,800	28,200	30,400	28,300	27,000	26,500	25,600
22	25,900	25,700	25,400	25,600	26,000	26,900	28,300	30,300	28,300	26,900	26,500	25,500
23	25,900	25,700	25,400	25,600	26,000	26,900	28,500	30,300	28,200	26,900	26,500	25,500
24	25,800	25,600	25,400	25,600	26,000	26,900	28,600	30,200	28,200	26,900	26,400	25,500
25	25,800	25,600	25,400	25,600	26,000	27,000	28,700	30,100	28,100	26,900	26,400	25,500
26	25,800	25,700	25,400	25,700	26,000	27,000	28,800	30,000	28,100	26,900	26,300	25,400
27	25,800	25,600	25,400	25,600	26,000	27,000	28,800	30,000	28,000	26,900	26,300	25,400
28	25,800	25,600	25,400	25,700	26,000	27,000	29,000	29,900	28,000	26,900	26,300	25,500
29	25,800	25,600	25,400	25,700	26,100	27,000	29,100	29,800	28,100	26,900	26,200	25,500
30	25,800	25,600	25,400	25,600	---	27,000	29,200	29,700	28,100	26,900	26,200	25,500
31	25,800	---	25,400	25,700	---	27,000	---	29,600	---	26,900	26,200	---
MAX	26,400	25,800	25,700	25,700	26,100	27,000	29,200	30,400	29,500	28,000	26,900	26,200
MIN	25,800	25,600	25,300	25,400	25,700	26,100	27,000	29,300	28,000	26,900	26,200	25,400
(+)	107.49	107.38	107.19	107.42	107.77	108.52	110.24	110.52	109.35	108.45	107.86	107.22
(++)	-600	-200	-200	+300	+400	+900	+2,200	+400	-1,500	-1,200	-700	-700

CAL YR 2003 MAX 37,500 MIN 25,300 (++) -9,500
WTR YR 2004 MAX 30,400 MIN 25,300 (++) -900

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	4.0	3.3	0.01	0.00	0.00	0.08	0.35	30	15	1.2	11
2	8.9	4.1	3.3	0.01	0.00	0.00	4.5	0.42	28	15	1.2	10
3	8.9	4.0	41	0.02	0.00	0.00	8.7	0.41	28	15	1.2	10
4	8.9	4.4	19	0.02	0.00	0.00	8.9	0.41	28	15	2.7	11
5	8.9	4.8	0.81	0.00	0.00	0.00	5.5	0.39	28	15	7.8	11
6	8.7	4.9	0.64	0.00	0.00	0.00	0.47	0.46	27	15	8.1	11
7	8.5	4.8	0.57	0.00	0.00	0.00	0.42	0.44	24	24	8.1	11
8	8.8	4.9	0.55	0.00	0.00	0.00	0.37	0.43	19	29	8.1	10
9	8.8	4.9	0.55	0.00	0.00	0.00	0.31	0.43	18	29	9.7	10
10	8.9	4.8	0.53	0.00	0.00	0.03	0.30	0.48	25	29	13	10
11	15	4.7	0.48	0.00	0.00	0.05	0.30	2.9	28	29	13	10
12	17	4.6	0.42	0.00	0.00	0.05	0.30	2.9	28	28	13	10
13	16	4.2	0.43	0.00	0.00	0.05	0.30	2.3	28	28	13	10
14	15	3.6	0.40	0.00	0.00	0.05	0.30	2.2	24	30	13	10
15	15	3.6	0.32	0.00	0.00	0.05	0.30	2.3	15	31	14	10
16	14	3.6	49	0.00	0.00	0.05	0.29	4.3	17	31	14	11
17	17	3.3	69	0.00	0.00	0.05	0.30	11	21	31	14	13
18	17	3.5	e67	0.00	0.00	0.08	0.24	11	21	31	16	13
19	11	3.3	e65	0.00	0.00	0.11	0.25	11	21	26	19	13
20	14	3.3	e40	0.00	0.00	0.11	0.30	12	21	19	16	13
21	18	3.1	e2.6	0.00	0.00	0.11	0.28	14	21	16	11	13
22	18	2.9	e0.30	0.00	0.00	0.11	0.30	13	20	17	11	13
23	9.0	3.4	0.30	0.00	0.00	0.11	0.30	24	20	17	10	13
24	3.9	3.4	0.30	0.00	0.00	0.11	0.30	30	20	17	10	14
25	3.9	3.3	0.30	0.00	0.00	0.09	0.30	31	20	17	11	14
26	3.9	3.2	0.23	0.00	0.00	0.05	0.30	31	21	17	11	14
27	3.9	3.3	0.28	0.00	0.00	0.03	0.26	31	21	14	10	14
28	3.9	3.0	0.35	0.00	0.00	0.04	0.20	31	21	5.2	10	7.7
29	3.9	3.0	0.30	0.00	0.00	0.04	0.26	31	17	1.4	9.9	2.0
30	3.9	3.2	0.27	0.00	---	0.04	0.30	31	15	1.2	10	1.2
31	3.9	---	0.14	0.00	---	0.05	---	31	---	1.2	10	---
TOTAL	315.8	115.1	367.67	0.06	0.00	1.46	35.23	364.12	675	609.0	320.0	323.9
MEAN	10.2	3.84	11.9	0.00	0.00	0.05	1.17	11.7	22.5	19.6	10.3	10.8
MAX	18	4.9	69	0.02	0.00	0.11	8.9	31	30	31	19	14
MIN	3.9	2.9	0.14	0.00	0.00	0.00	0.08	0.35	15	1.2	1.2	1.2
AC-FT	626	228	729	0.1	0.00	2.9	70	722	1,340	1,210	635	642

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)

MEAN	15.7	5.31	1.38	0.90	2.27	8.89	22.4	34.6	31.8	36.7	23.0	16.9
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	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.74	2.66	7.15	0.74	0.08
(WY)	(1957)	(1960)	(1956)	(1956)	(1956)	(1960)	(1957)	(1957)	(1986)	(1956)	(1954)	(1981)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1950 - 2004	
ANNUAL TOTAL	7,010.86		3,127.34			
ANNUAL MEAN	19.2		8.54		16.5	
HIGHEST ANNUAL MEAN					56.5	1994
LOWEST ANNUAL MEAN					5.85	1955
HIGHEST DAILY MEAN	146	Aug 21	69	Dec 17	303	May 24, 1994
LOWEST DAILY MEAN	0.05	Mar 20	0.00	Jan 5	0.00	May 1, 1950
ANNUAL SEVEN-DAY MINIMUM	0.07	Mar 19	0.00	Jan 5	0.00	May 1, 1950
MAXIMUM PEAK FLOW			70	Dec 16	307	May 24, 1994
MAXIMUM PEAK STAGE			1.61	Dec 16	3.62	May 24, 1994
INSTANTANEOUS LOW FLOW			0.00	Jan 1	0.00	May 1, 1950
ANNUAL RUNOFF (AC-FT)	13,910		6,200		11,980	
10 PERCENT EXCEEDS	48		24		44	
50 PERCENT EXCEEDS	12		3.9		6.4	
90 PERCENT EXCEEDS	0.11		0.00		0.00	

e Estimated

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, and 3.6 mi west of Cimarron.

DRAINAGE AREA.--294 mi^2.

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

REVISED RECORDS.--WSP 1281: drainage area.

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

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	0.95	e5.4	47	2.0	1.7	3.6	75	40	19	7.0	12
2	5.7	0.94	4.8	39	e0.94	1.7	7.2	59	32	16	6.2	12
3	7.1	0.93	10	10	e1.1	1.6	27	49	31	16	5.7	14
4	7.6	1.0	44	6.2	e1.3	1.7	27	48	30	15	5.1	15
5	5.4	2.8	8.2	e1.2	e0.66	1.6	24	51	29	15	6.1	15
6	5.0	1.8	3.7	e1.3	e0.50	1.9	25	55	28	15	9.9	14
7	4.7	1.8	2.0	3.2	e1.0	1.9	26	59	27	17	12	14
8	4.5	1.7	3.5	10	e1.2	e2.1	38	62	19	28	13	14
9	4.5	1.6	e4.9	2.6	e0.82	e2.5	38	63	17	28	12	13
10	4.5	1.4	e2.0	1.3	e0.95	e2.7	36	59	18	29	13	12
11	5.4	1.7	e2.6	14	e0.56	e3.0	31	55	28	30	15	13
12	12	1.8	e3.4	20	e0.30	2.7	29	54	31	29	15	13
13	13	e1.4	e3.5	5.1	e0.60	2.8	35	49	30	27	17	12
14	11	3.5	19	6.1	e1.2	2.6	41	42	29	28	19	12
15	10	1.6	15	4.8	e1.1	2.5	43	36	21	27	22	13
16	10	1.5	28	4.7	e1.4	2.5	41	34	16	25	16	13
17	11	1.2	e65	3.1	e2.0	2.6	38	34	19	27	12	13
18	13	2.9	e72	3.8	e3.4	2.8	38	34	18	29	13	14
19	14	2.2	e68	e2.5	e2.9	2.7	34	34	15	27	21	17
20	6.2	1.9	51	e2.8	1.5	2.9	27	34	14	21	25	17
21	13	0.91	7.4	e2.1	1.1	3.1	23	36	11	18	16	15
22	14	0.62	e5.0	e3.0	1.0	3.3	22	37	12	16	14	15
23	13	e1.8	e3.2	e4.4	1.1	3.3	28	39	12	14	12	15
24	3.8	e3.1	e4.2	16	e0.85	2.4	40	47	11	18	10	16
25	2.4	12	e5.2	8.4	e0.74	2.9	58	43	11	17	10	16
26	2.0	4.8	6.7	e1.2	e1.3	3.5	63	45	14	16	9.9	16
27	1.9	e4.2	e3.6	e2.0	2.0	3.5	64	43	17	17	9.8	16
28	1.5	e4.1	e1.4	e3.4	1.7	3.6	56	41	18	16	10	16
29	1.2	13	e6.0	e5.8	1.7	3.5	53	40	22	12	10	13
30	0.90	4.8	42	11	---	3.5	85	40	21	9.8	11	7.1
31	0.94	---	58	11	---	3.6	---	41	---	8.1	11	---
TOTAL	214.74	83.95	558.7	257.0	36.92	82.7	1,100.8	1,438	641	629.9	388.7	417.1
MEAN	6.93	2.80	18.0	8.29	1.27	2.67	36.7	46.4	21.4	20.3	12.5	13.9
MAX	14	13	72	47	3.4	3.6	85	75	40	30	25	17
MIN	0.90	0.62	1.4	1.2	0.30	1.6	3.6	34	11	8.1	5.1	7.1
AC-FT	426	167	1,110	510	73	164	2,180	2,850	1,270	1,250	771	827

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)

MEAN	17.3	9.82	5.27	4.31	5.00	12.1	35.2	64.6	48.1	37.8	27.6	19.3
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	0.14	1.80	1.32	1.13	1.11	1.56	2.70	23.5	8.55	6.13	1.95	0.12
(WY)	(1957)	(1993)	(1957)	(1957)	(1997)	(2002)	(1955)	(1957)	(1956)	(1956)	(1954)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1950 - 2004	
ANNUAL TOTAL	7,477.29		5,849.51			
ANNUAL MEAN	20.5		16.0		23.8	
HIGHEST ANNUAL MEAN					80.7	1994
LOWEST ANNUAL MEAN					9.09	1956
HIGHEST DAILY MEAN	121	Jul 15	85	Apr 30	1,240	Jun 17, 1965
LOWEST DAILY MEAN	0.62	Nov 22	0.30	Feb 12	0.00	Sep 14, 1956
ANNUAL SEVEN-DAY MINIMUM	0.98	Oct 29	0.76	Feb 6	0.00	Sep 14, 1956
MAXIMUM PEAK FLOW			95	Apr 30	15,500	Jun 17, 1965
MAXIMUM PEAK STAGE			1.88	Apr 30	12.42	Jun 17, 1965
INSTANTANEOUS LOW FLOW			0.30	Feb 12	0.00	Sep 14, 1956
ANNUAL RUNOFF (AC-FT)	14,830		11,600		17,260	
10 PERCENT EXCEEDS	43		41		54	
50 PERCENT EXCEEDS	13		12		14	
90 PERCENT EXCEEDS	2.2		1.4		2.7	

e Estimated

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 l.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 with satellite telemetry. 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 fair except for those estimated, which are poor. Diversions for irrigation of about 250 acres upstream from station. Diversion 1,000 ft downstream from station for irrigation of about 300 acres. No flow at times most years.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.59	0.68	0.52	3.8	3.2	e1.0	7.2	210	12	7.6	15	8.2
2	0.66	0.71	0.54	3.4	2.6	e1.1	7.8	187	11	6.0	13	9.2
3	4.0	0.70	0.53	2.4	e2.0	e1.2	e6.0	167	11	5.0	13	7.1
4	2.9	0.74	0.65	1.3	e1.8	e1.1	e10	161	10	4.4	12	6.7
5	2.0	0.70	0.91	e1.1	e2.0	e1.2	15	164	9.7	4.2	14	6.8
6	1.6	0.44	0.83	e1.6	e2.8	e1.3	20	174	9.4	3.9	17	6.2
7	e1.4	0.46	1.2	3.7	3.9	e1.8	24	172	8.9	3.8	164	5.8
8	e1.2	0.49	0.98	3.6	3.6	e2.0	e34	158	8.3	3.4	49	5.5
9	e1.0	0.54	0.95	2.4	3.6	2.6	e30	145	8.1	3.1	20	5.2
10	e0.86	0.54	0.66	2.1	2.9	3.1	e24	130	8.0	4.6	17	4.9
11	e0.76	0.57	0.97	2.2	e1.5	3.5	e30	115	7.3	11	16	4.7
12	e0.70	0.60	1.3	2.6	e0.90	3.4	42	105	6.8	5.6	16	4.4
13	e0.68	e0.52	1.5	2.0	e0.50	4.2	46	96	6.4	4.5	65	4.3
14	e0.68	e0.60	2.2	2.5	e2.0	4.8	62	82	6.0	3.8	148	4.1
15	e0.70	e0.80	1.9	2.1	3.5	5.2	89	64	5.8	3.4	32	3.8
16	e0.72	e1.0	e0.90	2.1	3.6	5.2	104	49	5.8	4.1	19	3.7
17	e0.74	1.2	e0.50	1.5	3.2	5.3	114	45	5.6	19	16	3.6
18	e0.76	1.1	e0.80	0.93	2.7	5.3	129	43	5.0	13	15	3.5
19	e0.78	0.84	1.6	1.3	1.4	6.1	121	40	5.4	23	587	4.5
20	e0.80	1.1	2.1	e1.2	0.92	7.2	106	37	5.4	12	32	4.8
21	e0.80	1.2	2.4	e0.80	0.71	8.2	93	35	4.9	10	24	5.0
22	e0.80	1.2	1.9	e1.2	0.74	9.3	80	33	4.9	17	18	4.7
23	e0.78	0.59	e1.2	e1.2	0.70	9.6	85	29	5.3	39	14	4.3
24	e0.74	0.53	e1.8	e1.8	1.1	9.9	77	26	6.0	43	12	4.2
25	e0.68	0.45	2.6	e2.4	e0.70	11	117	24	5.4	26	11	4.1
26	e0.64	0.37	2.4	2.3	e0.80	11	169	21	6.1	18	9.2	4.2
27	e0.62	0.36	e1.3	3.2	e1.0	11	210	18	7.6	20	8.1	4.2
28	e0.60	0.42	e1.0	4.1	e0.90	10	208	16	64	148	7.9	4.2
29	e0.60	0.81	e1.8	4.1	e1.0	8.9	169	15	17	27	7.9	4.5
30	e0.62	0.80	e2.4	3.0	---	8.5	217	14	11	21	7.8	4.3
31	0.62	---	3.3	3.9	---	7.8	---	13	---	19	7.8	---
TOTAL	31.03	21.06	43.64	71.83	56.27	171.8	2,446.0	2,588	288.1	533.4	1,407.7	150.7
MEAN	1.00	0.70	1.41	2.32	1.94	5.54	81.5	83.5	9.60	17.2	45.4	5.02
MAX	4.0	1.2	3.3	4.1	3.9	11	217	210	64	148	587	9.2
MIN	0.59	0.36	0.50	0.80	0.50	1.0	6.0	13	4.9	3.1	7.8	3.5
AC-FT	62	42	87	142	112	341	4,850	5,130	571	1,060	2,790	299

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2004, BY WATER YEAR (WY)

MEAN	3.58	3.24	2.36	2.12	2.26	5.13	25.7	49.8	18.0	7.44	14.9	5.48
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	0.00	0.00	0.13	0.03	0.14	0.33	1.94	0.38	0.18	0.00	0.31	0.00
(WY)	(1952)	(1952)	(1957)	(1957)	(1957)	(1955)	(1925)	(2002)	(1963)	(1964)	(1974)	(1951)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1916 - 2004	
ANNUAL TOTAL	1,769.52		7,809.53			
ANNUAL MEAN	4.85		21.3		11.8	
HIGHEST ANNUAL MEAN					40.9	1999
LOWEST ANNUAL MEAN					1.38	1974
HIGHEST DAILY MEAN	100	Jun 30	587	Aug 19	819	Jun 17, 1965
LOWEST DAILY MEAN	0.00	Aug 21	0.36	Nov 27	0.00	Jun 23, 1951
ANNUAL SEVEN-DAY MINIMUM	0.08	Aug 15	0.50	Nov 23	0.00	Jun 23, 1951
MAXIMUM PEAK FLOW			14,700	Aug 19	14,700	Aug 19, 2004
MAXIMUM PEAK STAGE			9.72	Aug 19	11.13	Jun 17, 1965
INSTANTANEOUS LOW FLOW			0.12	Nov 7	0.00	Jun 23, 1951
ANNUAL RUNOFF (AC-FT)	3,510		15,490		8,560	
10 PERCENT EXCEEDS	16		64		28	
50 PERCENT EXCEEDS	1.4		4.2		3.1	
90 PERCENT EXCEEDS	0.46		0.70		0.40	

e Estimated

07208500 RAYADO CREEK 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, published as "Rayado Creek at Sauble Ranch near Cimarron."

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 fair except for those estimated, which are poor. No diversion upstream from station.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	2.9	3.4	4.0	e1.0	3.7	7.0	54	10	7.0	11	7.8
2	2.7	2.9	3.4	3.4	e1.0	3.5	9.8	51	9.9	5.8	9.6	7.0
3	3.1	2.9	5.9	3.3	e1.5	3.3	13	48	9.3	5.1	9.5	6.2
4	4.2	2.8	2.7	e2.0	e2.2	3.4	e11	49	9.3	4.6	8.4	6.3
5	3.7	2.6	3.3	e1.0	e2.5	3.4	12	50	8.5	4.3	8.4	7.2
6	3.3	2.7	3.9	e1.7	e1.5	3.6	15	53	8.5	4.3	9.0	6.1
7	3.2	3.1	3.6	e2.5	e1.2	3.5	15	54	8.8	4.3	12	5.6
8	3.1	3.4	3.5	3.4	e2.5	4.1	20	53	7.9	3.8	8.8	5.1
9	3.0	3.2	e2.2	2.1	e1.5	4.8	22	52	12	3.6	8.2	4.9
10	2.9	3.2	e1.5	1.2	e1.5	5.2	23	49	15	3.6	7.4	4.8
11	3.7	3.2	e2.5	1.5	e2.0	4.9	18	46	11	3.5	6.9	4.5
12	3.3	3.3	e1.7	3.0	e1.0	5.4	18	42	8.6	3.6	6.7	4.4
13	2.8	3.3	e1.3	4.1	e0.50	6.1	20	40	7.9	3.4	6.6	4.2
14	2.7	4.3	e3.5	4.6	e0.50	6.4	28	37	7.3	3.2	10	4.0
15	2.7	3.7	e3.0	3.2	e1.0	7.4	37	34	7.6	2.8	15	3.9
16	2.7	3.2	e1.5	3.0	e1.5	7.4	43	30	7.3	2.9	11	3.6
17	2.7	3.7	e2.0	2.6	e2.0	7.0	47	27	6.8	3.8	8.9	3.5
18	2.7	3.6	e3.3	e2.2	e3.0	7.6	49	26	6.4	8.9	7.9	3.5
19	2.7	3.2	e3.0	e1.5	3.6	8.0	47	24	6.6	7.0	26	6.2
20	2.7	3.9	e3.0	2.7	3.1	8.5	44	22	6.0	7.6	13	6.4
21	2.7	3.6	e3.0	e2.8	2.9	9.0	42	21	5.3	7.2	11	4.8
22	2.7	e3.0	e2.5	e1.0	2.9	9.2	40	19	5.2	8.4	9.1	4.3
23	2.7	e1.5	e1.7	e1.8	3.2	8.7	40	18	5.3	7.5	8.1	3.9
24	2.7	3.5	e2.3	e4.0	2.6	9.3	39	17	5.1	12	7.4	3.9
25	2.7	3.6	2.9	e2.0	e2.0	9.5	40	16	5.3	14	6.9	3.9
26	2.5	3.7	3.5	e1.0	e2.7	8.7	39	15	7.1	11	6.3	3.9
27	3.0	e1.2	e1.5	e1.5	3.6	8.7	47	14	7.8	10	6.1	3.9
28	3.2	e1.5	e1.0	e2.0	3.5	7.5	53	13	7.0	12	6.2	4.0
29	2.9	e2.5	e2.5	2.7	e4.0	7.1	53	12	8.1	14	6.2	5.1
30	2.8	3.5	4.6	2.5	---	7.0	56	11	9.9	14	6.6	4.2
31	2.7	---	4.4	2.3	---	6.9	---	11	---	12	9.0	---
TOTAL	91.2	92.7	88.1	76.6	62.00	198.8	947.8	1,008	240.8	215.2	287.2	147.1
MEAN	2.94	3.09	2.84	2.47	2.14	6.41	31.6	32.5	8.03	6.94	9.26	4.90
MAX	4.2	4.3	5.9	4.6	4.0	9.5	56	54	15	14	26	7.8
MIN	2.5	1.2	1.0	1.0	0.50	3.3	7.0	11	5.1	2.8	6.1	3.5
AC-FT	181	184	175	152	123	394	1,880	2,000	478	427	570	292

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2004, BY WATER YEAR (WY)

MEAN	5.74	5.01	3.96	3.63	4.02	7.81	30.4	51.2	22.1	10.2	11.3	7.11
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	1.04	1.95	2.98	4.65	2.24	1.71	1.42	1.81	0.88
(WY)	(1957)	(1957)	(1957)	(2002)	(1951)	(1951)	(2002)	(2002)	(2002)	(1956)	(2002)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1912 - 2004	
ANNUAL TOTAL	2,367.40		3,455.50			
ANNUAL MEAN	6.49		9.44		13.5	
HIGHEST ANNUAL MEAN					41.6	1965
LOWEST ANNUAL MEAN					2.53	2002
HIGHEST DAILY MEAN	29	Apr 30	56	Apr 30	2,000	Jun 18, 1965
LOWEST DAILY MEAN	0.60	Feb 7	0.50	Feb 13	0.40	Nov 16, 1956
ANNUAL SEVEN-DAY MINIMUM	1.1	Feb 4	1.1	Feb 9	0.67	Sep 15, 1956
MAXIMUM PEAK FLOW			497	Aug 19	a9,000	Jun 17, 1965
MAXIMUM PEAK STAGE			4.58	Aug 19	b11.50	Jun 17, 1965
INSTANTANEOUS LOW FLOW			0.50	Feb 13	c0.03	Dec 3, 1950
ANNUAL RUNOFF (AC-FT)	4,700		6,850		9,810	
10 PERCENT EXCEEDS	18		25		29	
50 PERCENT EXCEEDS	3.5		4.4		5.4	
90 PERCENT EXCEEDS	2.2		2.0		2.6	

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

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.--l,032 mi^2.

PERIOD OF RECORD.--August 1907 to December 1909, January 1921 to February 1922, October 1924 to January 1926, September 1926 to September 2004 (discontinued). Monthly discharge only for some periods, published in WSP 1311. Published as "Cimarron Creek," October 1952 to September 1965.

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

GAGE.--Water-stage recorder with satellite telemetry. 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 fair except for those estimated, which are poor. Flow partly regulated by Eagle Nest Lake (station 07205500). Diversions for irrigation of about 23,000 acres upstream from station and a few hundred acres between station and mouth. Several observations of water temperature were made during the year. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, about 22 ft, Sept. 29, 1904 (backwater from debris on railroad bridge). Another major flood occurred June 11, 1913. Maximum discharge of these floods probably exceeded 10,000 ft^3/s, but probably were less than the 1965 flood.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.03	e0.20	e0.15	0.07	471	0.63	0.50	1.3	0.22
2	0.00	0.00	0.00	0.03	e0.24	e0.14	0.79	364	0.51	0.36	0.77	0.19
3	0.00	0.00	0.00	0.03	e0.26	e0.14	5.3	316	0.33	0.26	0.54	0.13
4	0.03	0.00	0.00	0.03	e0.27	e0.12	12	270	0.26	0.20	0.39	0.12
5	0.00	0.00	0.00	0.04	e0.24	e0.12	7.9	260	0.19	0.16	0.42	0.13
6	0.00	0.00	0.00	0.03	e0.20	e0.10	3.4	259	0.18	0.13	0.51	0.07
7	0.00	0.00	0.00	0.03	e0.20	e0.10	2.6	270	0.17	0.12	0.42	0.05
8	0.00	0.00	0.00	0.04	e0.20	e0.08	3.9	269	0.12	0.10	0.30	0.03
9	0.00	0.00	0.00	0.03	e0.20	e0.08	5.9	266	0.72	0.08	0.25	0.03
10	0.00	0.00	0.00	0.03	e0.22	e0.07	2.8	244	0.41	0.09	0.22	0.02
11	0.00	0.00	0.00	e0.03	e0.22	e0.07	3.1	187	0.12	0.07	0.21	0.02
12	0.00	0.00	0.00	e0.03	e0.18	e0.06	3.1	100	0.08	0.06	1.4	0.01
13	0.00	0.02	0.00	e0.02	e0.20	0.06	2.5	48	0.08	0.05	0.71	0.01
14	0.00	0.02	0.00	e0.02	e0.24	0.05	2.0	40	0.06	0.03	0.40	e0.01
15	0.00	0.00	0.00	e0.02	e0.24	0.05	1.5	36	0.07	0.02	18	e0.01
16	0.00	0.00	0.00	e0.02	e0.24	0.05	1.2	36	0.08	0.02	8.6	e0.01
17	0.00	0.00	0.00	e0.01	e0.27	0.06	14	32	0.17	31	6.1	e0.01
18	0.00	0.00	0.00	e0.01	e0.41	0.06	31	17	0.57	75	3.8	e0.01
19	0.00	0.00	0.00	e0.02	e0.27	0.06	40	9.7	0.38	6.9	3.5	e2.0
20	0.00	0.00	0.00	e0.02	e0.26	0.05	39	7.3	0.21	3.4	114	e8.0
21	0.00	0.00	0.00	e0.03	e0.26	0.05	32	5.6	0.19	15	25	e3.0
22	0.00	0.00	0.00	e0.06	e0.24	0.06	26	4.4	0.39	2.1	8.3	e2.0
23	0.00	0.00	0.00	e0.08	e0.22	0.06	44	3.0	0.23	1.1	5.9	e1.0
24	0.00	0.00	0.00	e0.10	e0.22	0.06	54	2.3	0.37	4.4	2.8	e0.50
25	0.00	0.00	0.01	e0.16	e0.20	0.06	75	1.8	4.0	3.7	1.4	e26
26	0.00	0.00	0.01	e0.24	e0.20	0.06	54	1.6	1.2	2.8	0.75	e19
27	0.00	0.00	0.01	e0.20	e0.18	0.06	219	1.6	0.52	2.0	0.45	e10
28	0.00	0.00	0.02	e0.20	e0.18	0.06	204	2.1	0.46	1.8	0.50	e2.0
29	0.00	0.00	0.02	e0.20	e0.16	0.07	306	1.4	1.3	8.8	0.38	e1.0
30	0.00	0.00	0.02	e0.22	---	0.08	403	1.00	1.8	5.3	0.42	e0.50
31	0.00	---	0.02	e0.26	---	0.08	---	0.85	---	2.2	0.40	---
TOTAL	0.03	0.04	0.11	2.27	6.62	2.37	1,599.06	3,527.65	15.80	167.75	208.14	76.08
MEAN	0.00	0.00	0.00	0.07	0.23	0.08	53.3	114	0.53	5.41	6.71	2.54
MAX	0.03	0.02	0.02	0.26	0.41	0.15	403	471	4.0	75	114	26
MIN	0.00	0.00	0.00	0.01	0.16	0.05	0.07	0.85	0.06	0.02	0.21	0.01
AC-FT	0.06	0.08	0.2	4.5	13	4.7	3,170	7,000	31	333	413	151

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2004, BY WATER YEAR (WY)

MEAN	8.43	8.37	7.58	7.75	8.03	10.6	32.4	88.7	41.8	11.3	16.7	12.1
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	0.00	0.00	0.00	0.07	0.23	0.08	0.46	0.44	0.12	0.00	0.00	0.00
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2002)	(2002)	(2003)	(2002)	(2003)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1908 - 2004	
ANNUAL TOTAL	130.47		5,605.92			
ANNUAL MEAN	0.36		15.3		21.4	
HIGHEST ANNUAL MEAN					139	1994
LOWEST ANNUAL MEAN					0.39	2003
HIGHEST DAILY MEAN	5.9	May 6	471	May 1	10,500	Jun 18, 1965
LOWEST DAILY MEAN	0.00	Jul 1	0.00	Oct 1	0.00	Sep 2, 1954
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 1	0.00	Oct 5	0.00	Sep 16, 1954
MAXIMUM PEAK FLOW			579	Jul 18	a29,500	Jun 18, 1965
MAXIMUM PEAK STAGE			5.39	Jul 18	b19.96	Jun 18, 1965
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Sep 2, 1954
ANNUAL RUNOFF (AC-FT)	259		11,120		15,480	
10 PERCENT EXCEEDS	0.90		18		28	
50 PERCENT EXCEEDS	0.02		0.16		4.0	
90 PERCENT EXCEEDS	0.00		0.00		0.83	

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

07211500 CANADIAN RIVER NEAR TAYLOR SPRINGS, NM

LOCATION.--Lat 36°17'49", long 104°29'36", in NW ¼ SE ¼ sec.21, T.24 N., R.23 E., Colfax County, Hydrologic Unit 11080003, on left bank at head of gorge, 2.1 mi south of Taylor Springs, 2.3 mi downstream from Cimarron River, 2.4 mi upstream from Chico Creek, 7.1 mi southeast of Springer, and at mile 847.9.

DRAINAGE AREA.--2,850 mi^2.

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

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

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

REMARKS.--Records fair except for those estimated, which are poor. Diversions for irrigation of about 30,000 acres upstream from station. Several observations of water temperature were made during the year. No flow at times some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood prior to 1965 occurred Sept. 29, 1904, discharge published as 91,100 ft^3/s in WSP 842 and 847.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.03	0.06	0.04	0.02	534	0.30	54	34	16
2	0.00	0.00	0.01	0.03	0.06	0.04	0.17	458	0.20	28	20	15
3	0.07	0.00	0.01	0.02	0.06	0.07	1.8	443	0.13	19	13	14
4	0.03	0.00	0.01	0.03	0.06	0.12	5.5	378	0.11	14	9.4	14
5	0.00	0.00	0.01	0.02	0.06	0.09	13	345	0.06	11	573	13
6	0.00	0.00	0.02	0.02	0.05	0.08	7.6	325	0.04	8.5	473	12
7	0.00	0.00	0.01	0.03	0.05	0.07	2.4	328	0.02	7.0	698	12
8	0.00	0.00	0.01	0.03	0.04	0.05	1.4	318	0.02	5.8	468	10
9	0.00	0.00	0.01	0.03	0.04	0.04	1.6	309	0.01	5.0	128	9.5
10	0.00	0.00	0.02	0.03	0.04	0.03	1.7	288	0.01	3.9	67	8.7
11	0.00	0.00	0.02	0.03	0.05	0.03	1.2	219	0.00	3.6	45	8.2
12	0.00	0.00	0.03	0.03	0.04	0.03	1.0	129	0.00	23	152	7.4
13	0.00	0.08	0.03	0.03	0.05	0.03	0.80	58	0.00	15	716	6.4
14	0.00	0.03	0.03	0.04	0.05	0.02	0.85	37	0.00	6.4	338	5.4
15	0.00	0.01	0.03	0.03	0.06	0.02	0.70	31	0.00	3.6	155	4.5
16	0.00	0.01	0.02	0.03	0.06	0.02	0.53	32	0.00	2.4	97	3.9
17	0.00	0.00	0.02	0.03	0.05	0.02	0.35	28	0.00	2.1	63	3.7
18	0.00	0.00	0.03	0.04	0.05	0.02	12	20	9.6	293	45	3.4
19	0.00	0.00	0.03	0.05	0.04	0.02	26	9.2	1,100	447	146	14
20	0.00	0.00	0.03	0.05	0.04	0.01	29	6.0	1,890	255	377	26
21	0.00	0.00	0.03	0.06	0.04	0.01	24	4.4	65	268	210	16
22	0.00	0.00	0.03	0.05	0.03	0.02	20	3.1	31	129	146	9.4
23	0.00	0.01	0.03	0.05	0.03	0.02	30	2.1	22	175	122	10
24	0.00	0.01	0.03	0.05	0.06	0.02	47	1.5	18	164	77	11
25	0.00	0.00	0.03	0.05	0.11	0.02	64	1.0	869	91	50	98
26	0.00	0.00	0.03	0.05	0.09	0.02	49	0.78	74	83	37	e34
27	0.00	0.01	0.03	0.05	0.08	0.01	182	0.51	81	80	29	e12
28	0.00	0.01	0.02	0.05	0.09	0.01	216	0.38	242	639	24	e8.0
29	0.00	0.01	0.02	0.05	0.06	0.01	374	0.35	281	193	25	6.9
30	0.00	0.01	0.02	0.05	---	0.02	438	0.32	1,250	61	20	6.0
31	0.00	---	0.03	0.04	---	0.02	---	0.23	---	39	17	---
TOTAL	0.10	0.19	0.68	1.18	1.60	1.03	1,551.62	4,309.87	5,933.50	3,129.3	5,374.4	418.4
MEAN	0.00	0.01	0.02	0.04	0.06	0.03	51.7	139	198	101	173	13.9
MAX	0.07	0.08	0.03	0.06	0.11	0.12	438	534	1,890	639	716	98
MIN	0.00	0.00	0.00	0.02	0.03	0.01	0.02	0.23	0.00	2.1	9.4	3.4
AC-FT	0.2	0.4	1.3	2.3	3.2	2.0	3,080	8,550	11,770	6,210	10,660	830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	35.9	22.6	20.3	21.1	24.4	27.9	118	234	137	86.3	115	72.8
MAX	451	192	105	121	186	337	2,853	2,174	2,313	509	563	1,354
(WY)	(1942)	(1942)	(1943)	(1943)	(1948)	(1987)	(1942)	(1941)	(1965)	(1947)	(1981)	(1942)
MIN	0.00	0.01	0.02	0.04	0.06	0.03	1.40	0.32	2.67	0.89	0.01	0.00
(WY)	(1957)	(2004)	(2004)	(2004)	(2004)	(2004)	(1954)	(2002)	(1964)	(2003)	(2003)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	1,087.32		20,721.87			
ANNUAL MEAN	2.98		56.6		77.0	
HIGHEST ANNUAL MEAN					564	1942
LOWEST ANNUAL MEAN					3.05	2003
HIGHEST DAILY MEAN	206	Jun 19	1,890	Jun 20	43,000	Jun 18, 1965
LOWEST DAILY MEAN	0.00	Jul 23	0.00	Oct 1	0.00	Jun 29, 1946
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 23	0.00	Oct 5	0.00	Jun 24, 1953
MAXIMUM PEAK FLOW			10,900	Jun 20	a162,000	Jun 18, 1965
MAXIMUM PEAK STAGE			14.02	Jun 20	b47.40	Jun 18, 1965
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Jun 29, 1946
ANNUAL RUNOFF (AC-FT)	2,160		41,100		55,800	
10 PERCENT EXCEEDS	3.3		167		121	
50 PERCENT EXCEEDS	0.08		0.06		15	
90 PERCENT EXCEEDS	0.00		0.00		2.0	

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

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 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. La Cueva Canal operated as a seasonal gage. 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 to have been less than flood of 1904.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	1.1	e0.46	e0.21	e0.69	e0.87	9.0	49	33	25	18	12
2	9.1	1.3	e0.55	e0.30	e0.70	e0.96	12	41	34	23	17	11
3	9.7	1.4	e0.58	e0.45	e0.66	0.71	28	40	35	22	17	10
4	10	1.4	e0.64	e0.33	e0.60	1.1	29	43	42	21	19	11
5	8.7	1.6	e0.64	e0.34	e0.57	1.0	34	59	40	19	48	12
6	7.8	1.8	e0.37	e0.15	e0.49	0.92	41	72	42	19	25	11
7	7.6	1.9	e0.36	e0.35	e0.88	4.4	45	83	43	20	20	11
8	3.7	2.1	e0.22	e0.28	e0.55	2.6	42	90	50	19	20	9.9
9	e3.3	2.1	e0.20	0.33	e0.51	0.38	22	94	49	19	19	9.7
10	2.8	2.4	e0.03	0.39	e0.67	0.06	16	104	46	19	18	9.4
11	2.3	2.5	e0.09	e0.44	e0.65	0.02	23	92	43	20	18	9.3
12	1.8	3.1	e0.16	e0.57	e0.79	e0.04	19	90	39	21	18	10
13	3.9	3.5	e0.31	e0.57	e0.98	e0.02	15	88	36	20	23	11
14	3.8	3.8	e0.15	e0.51	e0.94	e0.02	14	76	31	17	20	10
15	2.5	4.3	e0.32	e0.69	e0.66	e0.03	14	68	31	21	21	9.2
16	0.26	4.6	e0.33	e0.60	e0.48	e0.02	16	66	29	20	19	11
17	0.32	5.0	e0.35	e1.2	e0.98	e0.04	19	66	23	19	19	11
18	0.43	3.2	e0.18	e1.1	e0.84	1.2	16	59	20	23	16	12
19	0.37	2.7	e0.26	e0.82	e0.57	3.6	12	61	19	21	14	18
20	0.76	e1.0	e0.33	e1.1	e0.58	5.6	9.5	66	20	23	14	10
21	0.33	e0.92	e0.31	e1.0	e0.70	5.8	11	73	21	20	14	5.4
22	0.51	e1.0	e0.28	e0.76	e0.74	5.8	11	71	21	19	14	5.4
23	0.66	1.6	e0.26	e0.91	e0.81	6.4	15	68	20	19	12	10
24	1.1	1.4	e0.29	e0.77	e1.2	7.0	18	61	19	20	12	16
25	1.0	0.76	e0.30	e0.89	e0.63	7.2	18	58	20	28	11	9.1
26	1.1	0.03	e0.50	e0.60	e0.64	7.2	16	57	22	20	10	4.7
27	1.1	0.10	e0.26	e0.79	e0.66	7.4	17	55	22	19	10	8.2
28	1.2	0.27	e0.19	e0.41	e0.71	7.7	16	53	23	19	11	7.6
29	1.1	e0.37	e0.21	e0.40	e0.69	8.3	18	52	31	23	11	4.1
30	1.1	e0.46	e0.24	e0.49	---	8.5	33	47	33	24	11	4.4
31	1.2	---	e0.15	e0.81	---	8.8	---	38	---	19	11	---
TOTAL	97.24	57.71	9.52	18.56	20.57	103.69	608.5	2,040	937	641	530	293.4
MEAN	3.14	1.92	0.31	0.60	0.71	3.34	20.3	65.8	31.2	20.7	17.1	9.78
MAX	10	5.0	0.64	1.2	1.2	8.8	45	104	50	28	48	18
MIN	0.26	0.03	0.03	0.15	0.48	0.02	9.0	38	19	17	10	4.1
AC-FT	193	114	19	37	41	206	1,210	4,050	1,860	1,270	1,050	582
(+)	395	>47	a	a	a	a	>96	546	558	2,527	1,129	376

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 2004, BY WATER YEAR (WY)

MEAN	16.8	10.8	8.27	7.79	7.52	10.6	32.3	77.3	64.6	33.8	43.3	27.7
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	0.64	0.38	0.31	0.00	0.53	0.68	1.02	1.44	1.11	3.02	1.43	0.46
(WY)	(1957)	(1957)	(2004)	(1908)	(1957)	(2003)	(2003)	(2003)	(1956)	(1934)	(1956)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1906 - 2004	
ANNUAL TOTAL	1,425.50		5,357.19			
ANNUAL MEAN	3.91		14.6		28.4	
HIGHEST ANNUAL MEAN					113	1941
LOWEST ANNUAL MEAN					2.27	2002
HIGHEST DAILY MEAN	18	Jun 19	104	May 10	1,060	Apr 23, 1942
LOWEST DAILY MEAN	0.03	Nov 26	0.02	Mar 11	0.00	Dec 22, 1907
ANNUAL SEVEN-DAY MINIMUM	0.17	Dec 8	0.03	Mar 11	0.00	Dec 22, 1907
MAXIMUM PEAK FLOW			404	Aug 5	1,530	Sep 23, 1941
MAXIMUM PEAK STAGE			4.40	Aug 5	7.58	Sep 23, 1941
INSTANTANEOUS LOW FLOW					0.00	Dec 22, 1907
ANNUAL RUNOFF (AC-FT)	2,830 (+) >2,609		10,630 (+) >5,674		20,550	
10 PERCENT EXCEEDS	11		42		71	
50 PERCENT EXCEEDS	1.2		8.2		12	
90 PERCENT EXCEEDS	0.37		0.32		1.5	

a Unknown.
(+) Diversion, in acre-feet, by La Cueva Canal.
> Greater than.
e Estimated

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 Cebo11a, 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. Jan. 6, 1929, to Apr. 1, 1972, water-stage recorder at site 0.7 mi downstream at datum about 15 ft lower.

REMARKS.--Records good except for those estimated, which are poor. Diversions for irrigation of about 12,000 acres upstream from station. Off-channel lakes make it possible to divert and store water during non-irrigation season. Several observations of water temperature were made during the year. No flow at times some years.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.8	e2.1	e2.8	e2.8	3.3	2.3	49	28	21	16	16
2	1.9	1.9	e2.4	e2.7	e2.7	3.4	2.5	39	28	17	15	15
3	2.9	1.9	e2.3	e2.5	e2.9	3.6	20	36	33	19	16	15
4	3.2	1.9	e2.5	e2.3	e3.1	3.6	36	34	42	18	52	13
5	3.2	1.9	e2.3	e2.1	e3.0	3.7	51	49	37	19	118	15
6	3.2	2.1	e2.5	e1.9	e2.9	3.6	88	66	40	15	55	14
7	3.4	2.2	e2.6	e2.5	e3.2	3.6	103	81	41	18	27	13
8	3.3	2.5	e2.7	e2.8	e3.5	4.2	217	96	47	15	27	12
9	3.3	2.4	e2.6	e2.7	e3.1	5.3	153	100	50	17	24	13
10	3.2	2.4	e2.4	e2.5	e3.2	4.1	116	114	47	16	21	12
11	3.3	2.2	e2.5	e2.4	e2.8	3.6	81	99	42	15	21	12
12	1.9	2.1	e2.7	e2.5	e1.9	3.4	82	91	39	18	21	11
13	1.8	2.7	e2.5	e2.6	e3.2	3.4	72	93	40	16	38	12
14	1.9	2.9	e2.7	e2.6	e3.3	3.2	89	84	35	12	30	12
15	1.9	3.1	e2.6	e2.6	e3.7	3.1	78	78	28	13	29	12
16	1.9	3.0	e2.5	e2.6	e3.7	3.1	62	70	28	14	22	6.5
17	2.0	3.0	e2.6	e2.6	e3.6	3.0	55	68	22	13	21	5.3
18	2.0	2.9	e2.6	e2.5	e3.6	2.9	46	60	19	24	18	4.8
19	2.0	2.8	e2.7	e2.6	e3.6	2.8	36	64	16	21	18	13
20	2.2	2.0	e2.7	e2.7	e3.5	3.1	27	68	19	22	19	16
21	2.2	2.3	e2.6	e2.8	e3.4	2.8	24	79	15	18	18	9.0
22	2.0	e2.5	e2.7	e2.6	e3.3	6.1	20	79	17	15	18	7.0
23	2.2	e1.9	e2.5	e2.5	e3.3	8.0	24	80	16	14	17	6.1
24	1.9	e2.4	e2.7	e2.7	e3.2	8.2	25	70	15	18	16	14
25	1.8	e2.3	e2.8	e2.6	e3.3	8.7	18	63	16	38	16	14
26	1.8	e2.1	e2.6	e2.5	e3.4	8.3	16	63	15	22	14	9.4
27	1.8	e2.2	e2.4	e2.6	e3.6	6.7	15	59	18	18	13	9.7
28	1.8	e2.4	e2.3	e2.9	3.6	3.4	15	55	17	18	12	12
29	1.7	e2.3	e2.5	e3.0	3.5	3.4	14	54	21	20	13	9.5
30	1.7	e2.2	e2.6	e3.0	---	3.5	21	48	32	28	12	9.1
31	1.8	---	e2.7	e2.9	---	3.6	---	40	---	18	14	---
TOTAL	70.9	70.3	78.9	80.6	93.9	132.7	1,608.8	2,129	863	570	771	342.4
MEAN	2.29	2.34	2.55	2.60	3.24	4.28	53.6	68.7	28.8	18.4	24.9	11.4
MAX	3.4	3.1	2.8	3.0	3.7	8.7	217	114	50	38	118	16
MIN	1.7	1.8	2.1	1.9	1.9	2.8	2.3	34	15	12	12	4.8
AC-FT	141	139	156	160	186	263	3,190	4,220	1,710	1,130	1,530	679

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2004, BY WATER YEAR (WY)

MEAN	21.3	14.1	11.6	11.7	11.1	12.8	42.9	90.4	72.6	39.4	54.9	32.8
MAX	119	86.8	38.9	29.7	27.2	68.8	361	661	377	321	307	153
(WY)	(1942)	(1942)	(1942)	(1942)	(1919)	(1985)	(1942)	(1941)	(1941)	(1919)	(1961)	(1991)
MIN	0.21	0.40	0.52	0.65	0.55	0.58	0.25	0.75	0.03	1.45	0.00	0.27
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1957)	(1955)	(2003)	(1934)	(2002)	(1934)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1915 - 2004	
ANNUAL TOTAL	771.80		6,811.5			
ANNUAL MEAN	2.11		18.6		33.9	
HIGHEST ANNUAL MEAN					144	1941
LOWEST ANNUAL MEAN					2.31	2003
HIGHEST DAILY MEAN	6.1	Jul 24	217	Apr 8	1,750	Apr 23, 1942
LOWEST DAILY MEAN	0.59	Apr 30	1.7	Oct 1	0.00	May 4, 1917
ANNUAL SEVEN-DAY MINIMUM	0.64	Apr 28	1.8	Oct 25	0.00	Aug 4, 1917
MAXIMUM PEAK FLOW			493	Aug 5	a14,000	Aug 22, 1952
MAXIMUM PEAK STAGE			2.91	Aug 5	b14.40	Aug 22, 1952
INSTANTANEOUS LOW FLOW			1.6	Oct 1	0.00	May 3, 1917
ANNUAL RUNOFF (AC-FT)	1,530		13,510		24,590	
10 PERCENT EXCEEDS	3.2		55		83	
50 PERCENT EXCEEDS	2.1		6.3		13	
90 PERCENT EXCEEDS	0.81		2.2		2.0	

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.
e Estimated

07218000 COYOTE CREEK NEAR GOLONDRINAS, NM

LOCATION.--Lat 35°55'00", long 105°09'49", Mora County, Hydrologic Unit 11080004, in Mora Grant, on left bank 0.5 mi downstream from Coyote Creek damsite, 2.3 mi northeast of Golondrinas, and at mile 2.7.

DRAINAGE AREA.--215 mi^2.

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

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

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. 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 fair except for those estimated, which are poor. Diversions (including off-channel storage) for irrigation of about 4,000 acres upstream from station. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.5	1.5	e1.2	e1.2	2.7	e3.0	7.8	1.1	0.86	1.5	3.3
2	1.4	1.6	0.94	e1.2	e1.3	2.8	e3.3	6.9	0.91	0.69	1.4	2.6
3	1.8	1.4	0.97	e1.3	e1.4	2.9	e3.5	6.4	0.89	0.63	1.4	2.4
4	2.4	1.0	1.0	e1.2	e1.5	3.0	e3.0	5.1	1.1	0.57	7.3	2.4
5	2.0	0.89	1.0	e1.2	e1.3	2.9	e2.7	3.9	0.97	0.53	163	2.6
6	1.8	0.84	1.1	e1.0	e1.4	2.8	e2.6	3.4	0.86	0.59	5.1	2.3
7	1.9	0.85	1.0	e1.4	e1.3	2.8	e2.0	2.5	0.77	0.68	4.7	2.1
8	2.0	0.90	1.0	e1.3	e1.4	2.6	e1.6	2.9	0.74	0.61	2.0	2.1
9	2.0	1.1	1.0	e1.2	e1.5	2.5	e2.2	4.3	0.71	0.56	4.3	1.7
10	1.9	1.6	1.0	e1.1	e1.6	2.5	e5.9	4.6	0.66	0.63	2.1	1.3
11	1.9	2.5	e0.97	e1.3	e1.1	2.4	9.0	3.1	1.1	0.76	1.9	1.2
12	1.9	2.5	e1.0	e1.2	e1.0	2.5	8.3	3.0	1.5	0.65	1.8	1.2
13	2.0	3.3	e0.98	e1.1	e0.80	2.5	8.4	2.2	1.7	0.62	2.1	1.2
14	1.9	3.4	1.1	e1.3	e1.4	2.3	20	2.6	1.8	0.59	2.4	1.1
15	1.9	3.2	1.1	1.4	e2.0	2.3	20	2.8	1.4	0.57	3.2	1.0
16	0.87	3.1	e0.93	1.4	e2.5	2.3	9.5	2.8	0.47	0.57	4.8	1.3
17	0.91	3.2	e0.97	1.4	e3.0	2.3	8.6	4.1	0.47	0.94	4.9	1.1
18	1.0	3.0	e0.99	e1.3	e3.0	2.2	8.2	4.2	0.46	1.7	4.5	1.0
19	1.1	2.8	e1.0	e1.3	3.1	2.2	7.3	4.8	0.50	20	4.5	2.0
20	1.1	2.8	e1.0	1.4	2.9	1.8	5.3	3.8	0.51	2.2	8.4	2.4
21	1.2	2.7	e1.1	1.4	2.9	1.7	4.1	2.3	0.50	1.1	8.7	2.0
22	1.2	2.5	1.2	e1.4	2.9	1.7	3.1	1.9	0.60	0.78	8.9	1.9
23	1.2	2.2	e1.0	e1.5	2.9	e1.8	5.6	1.3	0.68	0.74	6.7	1.9
24	1.2	2.5	e1.0	e1.4	e3.4	e1.7	6.6	0.97	0.61	1.1	5.8	1.9
25	1.2	2.7	e1.1	e1.5	e3.4	e1.9	6.4	0.86	0.62	1.9	5.9	2.0
26	1.3	2.6	e1.1	e1.4	e3.0	e2.1	7.8	0.90	0.69	1.4	4.0	2.2
27	1.4	2.4	e1.0	e1.5	2.9	e1.9	8.3	0.96	0.70	1.2	3.5	2.2
28	1.4	1.4	e0.80	1.3	3.0	e2.1	7.8	0.96	0.87	1.6	3.4	2.2
29	1.4	1.5	e1.2	1.3	2.8	e2.1	6.9	0.92	1.5	2.1	3.5	2.2
30	1.4	1.9	1.7	1.3	---	e2.0	7.8	0.90	1.2	1.7	3.4	2.2
31	1.5	---	e1.1	1.4	---	e2.6	---	1.2	---	1.6	3.5	---
TOTAL	47.28	63.88	32.85	40.6	61.90	71.9	198.8	94.37	26.59	50.17	288.6	57.0
MEAN	1.53	2.13	1.06	1.31	2.13	2.32	6.63	3.04	0.89	1.62	9.31	1.90
MAX	2.4	3.4	1.7	1.5	3.4	3.0	20	7.8	1.8	20	163	3.3
MIN	0.87	0.84	0.80	1.0	0.80	1.7	1.6	0.86	0.46	0.53	1.4	1.0
AC-FT	94	127	65	81	123	143	394	187	53	100	572	113

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2004, BY WATER YEAR (WY)

MEAN	9.01	8.85	8.01	7.60	7.82	9.43	19.5	30.2	15.9	8.81	16.6	11.3
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	0.72	1.71	1.06	1.31	1.12	1.02	0.32	0.53	0.23	0.68	0.75	0.65
(WY)	(1957)	(1935)	(2004)	(2004)	(1955)	(1967)	(1978)	(1967)	(1940)	(2003)	(2002)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1930 - 2004	
ANNUAL TOTAL	464.64		1,033.94			
ANNUAL MEAN	1.27		2.82		12.8	
HIGHEST ANNUAL MEAN					52.9	1942
LOWEST ANNUAL MEAN					1.34	2003
HIGHEST DAILY MEAN	4.3	Mar 30	163	Aug 5	1,290	Sep 10, 1991
LOWEST DAILY MEAN	0.24	Jul 9	0.46	Jun 18	0.00	Aug 4, 1945
ANNUAL SEVEN-DAY MINIMUM	0.26	Jul 8	0.50	Jun 16	0.10	Jul 20, 1939
MAXIMUM PEAK FLOW			1,080	Aug 5	a4,050	Aug 17, 1961
MAXIMUM PEAK STAGE			4.20	Aug 5	b10.10	Aug 30, 1936
INSTANTANEOUS LOW FLOW					0.00	Aug 4, 1945
ANNUAL RUNOFF (AC-FT)	922		2,050		9,260	
10 PERCENT EXCEEDS	2.4		4.7		24	
50 PERCENT EXCEEDS	1.2		1.7		5.5	
90 PERCENT EXCEEDS	0.50		0.85		1.1	

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.
e Estimated

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 probably is 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 Sept. 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 Nov. 1966.

REMARKS.--Records fair. Diversions for irrigation of about 56,000 acres upstream from station. No flow at times.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	2.0	2.4	2.8	2.3	0.76	294	9.6	706	137	38
2	0.00	0.00	2.1	2.5	2.7	2.2	1.0	384	8.3	240	93	34
3	0.00	0.00	2.0	2.4	2.6	2.5	7.9	375	6.4	148	65	32
4	0.00	0.00	2.0	2.3	2.7	2.6	115	362	6.2	100	60	28
5	0.00	0.00	2.0	2.2	2.7	2.7	163	335	4.9	70	48	28
6	0.00	0.00	2.1	2.1	2.5	2.8	86	304	4.1	53	111	26
7	0.00	0.00	2.2	2.2	2.4	2.5	45	290	3.8	42	721	24
8	0.00	0.00	2.3	2.3	2.4	2.4	190	287	3.3	33	1,620	21
9	0.00	0.00	2.5	2.2	2.2	2.3	205	282	3.1	26	560	19
10	0.00	0.02	2.4	2.3	2.2	2.2	332	278	2.7	21	476	17
11	0.00	1.2	2.5	2.3	2.3	2.1	252	267	2.1	862	318	15
12	0.00	1.4	2.5	2.3	2.3	2.1	188	257	1.3	223	193	15
13	0.00	2.6	2.5	2.3	2.4	2.2	123	227	1.0	121	128	15
14	0.00	3.8	2.5	2.3	2.4	2.1	104	174	1.2	82	413	11
15	0.00	3.6	2.4	2.3	2.4	2.0	68	128	1.1	55	447	10
16	0.00	3.4	2.5	2.4	2.4	2.0	98	96	1.0	37	238	10
17	0.00	3.0	2.3	2.4	2.3	1.7	98	78	0.82	27	197	9.3
18	0.00	2.5	2.3	2.2	2.2	1.7	73	65	0.74	531	150	8.1
19	0.00	2.3	2.3	2.3	2.1	1.5	49	59	0.64	188	139	109
20	0.00	2.2	2.4	2.6	2.1	1.3	36	55	332	489	208	479
21	0.00	2.0	2.4	3.1	2.0	1.3	30	45	679	323	379	176
22	0.00	1.9	2.4	3.2	2.1	1.1	24	38	219	520	302	122
23	0.00	1.7	2.4	3.1	2.1	1.4	30	31	121	639	200	95
24	0.00	1.7	2.4	3.0	3.5	1.4	21	26	79	803	175	58
25	0.00	1.8	2.3	2.8	4.4	0.95	15	23	55	443	148	51
26	0.00	1.9	2.3	2.8	3.8	1.0	12	29	377	236	113	66
27	0.00	1.8	2.4	2.7	3.4	0.90	10	29	243	163	88	118
28	0.00	1.8	2.2	2.8	3.0	0.81	9.0	24	138	180	70	95
29	0.00	1.9	2.1	2.7	2.6	0.77	7.8	19	167	593	58	63
30	0.00	2.1	2.2	2.6	---	0.70	18	13	629	354	49	50
31	0.00	---	2.2	2.5	---	0.73	---	12	---	218	45	---
TOTAL	0.00	44.62	71.1	77.6	75.0	54.26	2,411.46	4,886	3,101.30	8,526	7,949	1,842.4
MEAN	0.00	1.49	2.29	2.50	2.59	1.75	80.4	158	103	275	256	61.4
MAX	0.00	3.8	2.5	3.2	4.4	2.8	332	384	679	862	1,620	479
MIN	0.00	0.00	2.0	2.1	2.0	0.70	0.76	12	0.64	21	45	8.1
AC-FT	0.00	89	141	154	149	108	4,780	9,690	6,150	16,910	15,770	3,650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2004, BY WATER YEAR (WY)

MEAN	102	58.6	49.8	52.2	62.0	60.7	204	406	370	221	304	227
MAX	870	506	252	183	363	737	5,573	4,721	4,260	1,129	1,173	4,079
(WY)	(1942)	(1942)	(1942)	(1943)	(1961)	(1987)	(1942)	(1941)	(1965)	(1914)	(1946)	(1942)
MIN	0.00	1.43	1.97	1.42	1.46	0.74	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1957)	(1936)	(1967)	(1974)	(1964)	(2003)	(2003)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1913 - 2004	
ANNUAL TOTAL	985.66		29,038.74			
ANNUAL MEAN	2.70		79.3		178	
HIGHEST ANNUAL MEAN					1,191	1942
LOWEST ANNUAL MEAN					3.73	2003
HIGHEST DAILY MEAN	74	Jun 24	1,620	Aug 8	50,000	Jun 13, 1913
LOWEST DAILY MEAN	0.00	May 4	0.00	Oct 1	0.00	Apr 1, 1936
ANNUAL SEVEN-DAY MINIMUM	0.00	May 23	0.00	Oct 1	0.00	Apr 1, 1936
MAXIMUM PEAK FLOW			5,420	Jul 11	a145,000	Jun 18, 1965
MAXIMUM PEAK STAGE			10.10	Jul 11	b36.60	Jun 18, 1965
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Mar 31, 1936
ANNUAL RUNOFF (AC-FT)	1,960		57,600		129,300	
10 PERCENT EXCEEDS	5.2		270		331	
50 PERCENT EXCEEDS	1.6		3.0		43	
90 PERCENT EXCEEDS	0.00		0.00		3.2	

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.
c Many days.

07223500 CONCHAS LAKE AT CONCHAS DAM, NM

LOCATION.--Lat 35°24'10", long 104°11'25", San Miguel County, Hydrologic Unit 11080003, in Pablo Montoya Grant, stilling well within concrete portion of Conchas Dam on Canadian River, 24.0 mi north of Newkirk, and at mile 746.0.

DRAINAGE AREA.--7,409 mi^2, of which 433 mi^2, probably is 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, 71,450 acre-ft, Oct. 5, 2003, elevation, 4,158.43 ft; minimum elevation, 4,155.80 ft, Sept. 24, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 120,650 acre-ft, Sept. 30, elevation, 4,171.80 ft; minimum, 71,450 acre-ft, Oct. 5, elevation, 4,158.43 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71,790	79,810	78,180	76,860	75,930	75,320	74,220	78,830	84,600	87,560	103,530	119,180
2	71,570	79,720	78,150	76,760	75,930	75,290	74,440	79,060	84,530	88,330	103,680	119,180
3	71,510	79,650	78,120	76,760	75,900	75,320	74,690	79,750	84,490	88,640	103,720	119,180
4	71,510	79,520	78,050	76,700	75,860	75,520	74,880	80,310	84,360	88,720	103,800	119,050
5	71,450	79,390	78,050	76,660	75,800	75,420	74,940	80,940	84,290	88,750	103,840	119,000
6	71,820	79,390	78,020	76,600	75,800	75,320	75,010	81,430	84,220	88,790	103,840	119,050
7	78,700	79,360	77,960	76,570	75,740	75,360	75,170	81,960	84,250	88,790	105,380	119,050
8	81,270	79,290	77,890	76,540	75,710	75,360	75,580	82,400	84,020	88,750	108,260	119,000
9	81,330	79,260	77,860	76,500	75,670	75,360	76,180	82,870	83,950	88,610	110,320	118,870
10	81,330	79,190	77,860	76,500	75,640	75,230	76,700	83,210	83,780	88,640	111,270	118,830
11	81,300	79,130	77,790	76,440	75,610	75,230	77,400	83,680	83,640	88,960	112,250	118,660
12	81,230	79,090	77,760	76,410	75,610	75,170	77,820	84,020	83,580	90,130	112,660	118,570
13	81,130	79,260	77,700	76,380	75,580	75,140	78,180	84,360	83,480	90,420	112,960	118,440
14	81,100	79,220	77,660	76,340	75,550	75,140	78,410	84,630	83,410	90,490	113,290	118,310
15	80,970	79,160	77,600	76,340	75,520	75,040	78,570	84,870	83,210	90,520	114,710	118,190
16	80,870	79,130	77,570	76,310	75,480	75,040	78,640	85,040	83,070	90,450	115,550	118,100
17	80,800	79,060	77,500	76,250	75,480	75,010	78,730	85,110	82,940	90,520	115,930	118,020
18	80,770	79,030	77,470	76,250	75,450	74,980	78,770	85,140	82,900	90,630	116,140	117,890
19	80,700	78,960	77,440	76,220	75,390	74,910	78,960	85,110	82,800	91,860	116,560	117,890
20	80,670	78,930	77,400	76,280	75,360	74,850	79,000	85,480	82,740	92,180	116,780	118,360
21	80,600	78,770	77,370	76,250	75,420	74,850	79,030	85,450	83,210	92,870	117,200	119,130
22	80,570	78,640	77,310	76,220	75,320	74,790	78,960	85,340	83,920	93,460	117,890	119,350
23	80,540	78,600	77,310	76,220	75,320	74,790	79,060	85,310	84,190	94,780	118,230	119,480
24	80,440	78,600	77,210	76,220	75,520	74,690	79,060	85,240	84,360	96,130	118,440	119,690
25	80,310	78,510	77,210	76,180	75,480	74,690	79,060	85,210	84,360	97,940	118,570	119,870
26	80,280	78,410	77,210	76,120	75,480	74,660	79,060	85,140	84,490	98,730	118,660	119,950
27	80,180	78,340	77,110	76,090	75,450	74,570	79,060	85,040	85,240	99,230	118,700	120,130
28	80,180	78,310	77,020	76,090	75,450	74,470	78,960	84,970	85,580	100,920	118,700	120,300
29	80,040	78,280	76,950	76,020	75,420	74,410	78,900	84,830	85,830	101,730	118,830	120,470
30	79,910	78,210	76,950	76,020	---	74,340	78,860	84,760	86,170	102,700	119,000	120,650
31	79,810	---	76,890	75,930	---	74,280	---	84,700	---	103,290	119,090	---
MAX	81,330	79,810	78,180	76,860	75,930	75,520	79,060	85,480	86,170	103,290	119,090	120,650
MIN	71,450	78,210	76,890	75,930	75,320	74,280	74,220	78,830	82,740	87,560	103,530	117,890
(+)	4,161.06	4,160.57	4,160.16	4,159.86	4,159.70	4,159.34	4,160.77	4,162.52	4,162.95	4,167.59	4,171.44	4,171.80
(++)	+7,960	-1,600	-1,320	-960	-510	-1,140	+4,580	+5,840	+1,470	+17,120	+15,800	+1,560

CAL YR 2003 MAX 88,080 MIN 71,450 (++) -11,260
WTR YR 2004 MAX 120,650 MIN 71,450 (++) +48,800

(+) 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 ¼ SE ¼ sec.15, T.14 N., R.32 E., Harding County, Hydrologic Unit 11080007, on right bank l.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 probably is 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 with satellite telemetry. Elevation of gage is 3,820 ft above National Geodetic Vertical Datum of 1929, from topographic map. See WSP 2121 for history of changes prior to Oct. 1, 1964.

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

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	e34	e8.1
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e26	e3.2
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e1.6	e18	1.9
4	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	7.5	e0.80
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	e0.30
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35	6.2
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46	1.8
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	156	e1.0
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	83	108	e0.70
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63	45	e0.25
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81	e16	e0.13
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	303	e1.6	e0.07
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	108	e0.17	e0.03
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31	e344	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10	677	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.3	e47	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.7	e17	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	220	e24	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	267	e59	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	133	e70	5.2
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200	e20	e190
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	135	e101	685
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e50	e35	e21
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e312	e12	e8.5
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	535	e5.2	e1.3
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.7	188	e3.9	e61
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17	e78	e2.8	88
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82	e45	e2.0	98
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	95	e191	e1.6	e21
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	26	e57	e33	e1.0
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	e43	e13	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	223.70	3,146.00	1,973.77	1,204.48
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.46	101	63.7	40.1
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	95	535	677	685
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.3	0.00	444	6,240	3,910	2,390

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2004, BY WATER YEAR (WY)

MEAN	9.92	3.00	1.65	2.32	1.90	1.64	9.64	35.3	27.3	49.3	66.5	28.6
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00
(WY)	(1945)	(1946)	(1946)	(1946)	(1946)	(1946)	(1943)	(1945)	(1953)	(1946)	(1983)	(1948)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1942 - 2004	
ANNUAL TOTAL	2,363.50		6,548.09			
ANNUAL MEAN	6.48		17.9		18.9	
HIGHEST ANNUAL MEAN					57.2	1958
LOWEST ANNUAL MEAN					0.08	1974
HIGHEST DAILY MEAN	1,120	Jun 21	685	Sep 22	7,420	May 28, 1946
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Jul 17, 1942
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Mar 18, 1943
MAXIMUM PEAK FLOW			5,370	Aug 14	a24,500	May 28, 1946
MAXIMUM PEAK STAGE			5.77	Aug 14	b9.94	Aug 11, 1981
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Jul 17, 1942
ANNUAL RUNOFF (AC-FT)	4,690		12,990		13,730	
10 PERCENT EXCEEDS	0.00		37		14	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

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.
e Estimated

07226800 UTE RESERVOIR NEAR LOGAN, NM

LOCATION.--Lat 35°20'35", long 103°26'37", in NW ¼ 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 probably is noncontributing.

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

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

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is North American Vertical Datum of 1988 (levels by Interstate Stream Commission). Prior to Feb. 25, 1974, nonrecording gage at same site and datum.

REMARKS.--Records fair. 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 from 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 Apr. 1984. Capacity, 229,710 acre-ft at elevation 3,788.86 ft, crest of labyrinth spillway, from capacity table dated Dec. 2002. Original capacity at elevation 3,787.0 ft was 272,770 acre-ft. Top of dam is at elevation 3,813.86 ft. Dead storage, 9,230 acre-ft at elevation 3,726.86 ft, sill of outlet intake tower; inactive pool of 25,070 acre-ft, between elevations 3,726.86 and 3,743.46 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 of 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 Sept. 1965, 31,320 acre-ft, June 6, 1984, elevation, 3,739.10 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 177,000 acre-ft, Sept. 30, elevation, 3,781.30 ft; minimum, 148,000 acre-ft, June 22, elevation, 3,776.45 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160,000	158,000	156,000	155,000	154,000	154,000	152,000	155,000	151,000	151,000	161,000	170,000
2	160,000	158,000	156,000	155,000	154,000	154,000	153,000	155,000	151,000	151,000	161,000	170,000
3	160,000	158,000	156,000	154,000	154,000	154,000	153,000	155,000	151,000	151,000	161,000	169,000
4	160,000	158,000	156,000	155,000	154,000	154,000	154,000	155,000	151,000	150,000	161,000	169,000
5	160,000	158,000	156,000	154,000	154,000	154,000	155,000	155,000	151,000	150,000	161,000	169,000
6	160,000	158,000	156,000	154,000	153,000	154,000	155,000	154,000	151,000	150,000	161,000	169,000
7	160,000	158,000	156,000	154,000	154,000	154,000	155,000	154,000	151,000	150,000	161,000	169,000
8	161,000	158,000	156,000	154,000	153,000	154,000	156,000	155,000	150,000	150,000	161,000	169,000
9	161,000	158,000	156,000	154,000	153,000	154,000	155,000	155,000	150,000	151,000	164,000	169,000
10	161,000	158,000	156,000	154,000	153,000	153,000	155,000	154,000	150,000	151,000	164,000	169,000
11	160,000	158,000	155,000	154,000	153,000	153,000	156,000	154,000	150,000	151,000	165,000	168,000
12	160,000	157,000	155,000	154,000	153,000	154,000	156,000	154,000	150,000	152,000	165,000	168,000
13	160,000	158,000	155,000	154,000	153,000	153,000	156,000	154,000	150,000	152,000	165,000	168,000
14	160,000	158,000	155,000	154,000	153,000	153,000	156,000	153,000	150,000	152,000	167,000	168,000
15	160,000	158,000	155,000	154,000	153,000	153,000	156,000	154,000	149,000	152,000	169,000	168,000
16	160,000	158,000	155,000	154,000	153,000	153,000	156,000	154,000	149,000	151,000	169,000	168,000
17	160,000	158,000	155,000	154,000	153,000	153,000	156,000	154,000	149,000	152,000	169,000	168,000
18	160,000	157,000	155,000	154,000	153,000	153,000	156,000	153,000	149,000	153,000	169,000	167,000
19	160,000	157,000	155,000	154,000	154,000	153,000	156,000	153,000	149,000	153,000	170,000	167,000
20	160,000	157,000	155,000	154,000	153,000	153,000	156,000	153,000	149,000	154,000	170,000	168,000
21	159,000	157,000	155,000	154,000	153,000	153,000	155,000	153,000	149,000	154,000	170,000	170,000
22	159,000	157,000	155,000	154,000	153,000	153,000	155,000	153,000	148,000	154,000	170,000	174,000
23	159,000	157,000	155,000	154,000	153,000	153,000	155,000	153,000	149,000	155,000	170,000	175,000
24	159,000	157,000	155,000	154,000	153,000	153,000	155,000	153,000	149,000	156,000	170,000	175,000
25	159,000	157,000	155,000	154,000	154,000	153,000	155,000	153,000	149,000	160,000	169,000	176,000
26	159,000	156,000	155,000	154,000	154,000	153,000	155,000	152,000	150,000	160,000	169,000	176,000
27	159,000	156,000	155,000	154,000	154,000	153,000	155,000	152,000	150,000	161,000	169,000	176,000
28	159,000	156,000	155,000	154,000	154,000	153,000	155,000	152,000	150,000	161,000	169,000	177,000
29	159,000	156,000	155,000	154,000	154,000	153,000	155,000	152,000	150,000	161,000	170,000	177,000
30	158,000	156,000	155,000	154,000	---	153,000	155,000	152,000	151,000	161,000	170,000	177,000
31	158,000	---	155,000	154,000	---	152,000	---	151,000	---	161,000	170,000	---
MAX	161,000	158,000	156,000	155,000	154,000	154,000	156,000	155,000	151,000	161,000	170,000	177,000
MIN	158,000	156,000	155,000	154,000	153,000	152,000	152,000	151,000	148,000	150,000	161,000	167,000
(+)	3,778.23	3,777.87	3,777.58	3,777.46	3,777.40	3,777.21	3,777.61	3,777.03	3,776.88	3,778.73	3,780.13	3,781.27
(++)	-2,000	-2,000	-1,000	-1,000	-1,000	-1,000	+3,000	-4,000	0	+10,000	+9,000	+7,000

CAL YR 2003 MAX 173,000 MIN 155,000 (++) -18,000
WTR YR 2004 MAX 177,000 MIN 148,000 (++) +17,000

(+) 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 ¼ NE ¼ 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 probably is 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 poor. Flow regulated by Ute Reservoir, 2.0 mi upstream (station 07226800). Diversions for irrigation of about 90,000 acres upstream from station. 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	5.1	2.9	1.7	e0.95	e0.98	2.4	2.5	3.4	11	3.6	1.9
2	2.5	5.4	3.2	1.6	e0.98	1.0	3.3	2.2	3.6	9.1	3.3	1.9
3	2.7	4.5	2.8	1.9	e0.98	1.1	4.1	2.5	3.8	8.4	3.1	1.9
4	2.7	3.6	2.9	2.0	1.0	5.2	6.3	2.3	4.1	7.7	3.8	1.8
5	2.9	4.2	2.7	2.1	e0.95	2.5	4.0	2.8	4.3	6.9	4.1	1.9
6	2.9	4.2	3.1	2.1	e0.95	2.1	3.3	2.6	4.4	6.7	4.0	1.8
7	3.2	4.1	3.2	2.2	e0.95	1.9	3.1	2.7	3.6	6.2	10	1.8
8	4.3	4.4	3.3	2.4	e0.95	2.2	5.8	2.9	3.5	5.7	11	1.8
9	3.1	4.9	3.0	2.5	e0.91	2.3	4.8	2.8	3.8	10	3.7	1.8
10	2.9	4.8	3.2	2.5	e0.91	2.2	3.6	2.8	3.5	15	3.3	1.7
11	3.0	4.8	3.6	2.6	e0.95	2.1	3.7	3.0	3.5	5.1	3.2	1.7
12	2.8	5.0	3.7	2.6	e0.93	2.2	3.5	3.0	4.1	4.3	3.3	1.9
13	3.2	9.4	3.8	3.0	e0.91	2.2	3.3	2.8	4.3	4.1	3.7	1.9
14	3.0	6.2	3.7	2.9	e0.93	1.9	3.5	3.1	4.8	3.6	28	1.8
15	3.2	5.8	3.4	3.2	e0.95	1.9	3.2	3.3	7.6	3.2	23	1.7
16	3.0	5.4	3.5	3.2	e0.95	1.9	3.2	3.3	7.0	2.8	4.0	2.0
17	2.8	4.1	3.7	2.6	e0.94	2.0	3.5	3.0	17	21	3.0	2.0
18	3.1	3.4	3.6	2.9	1.0	1.9	3.6	3.2	13	13	2.8	1.8
19	3.5	4.0	4.1	2.1	1.0	2.1	3.7	2.8	11	3.6	7.4	2.3
20	3.9	4.1	3.9	2.1	e0.94	1.9	3.9	2.8	9.2	2.3	8.7	3.0
21	4.1	4.3	3.7	2.4	e0.96	2.0	4.0	2.8	8.1	2.0	3.3	2.9
22	4.4	3.9	4.1	2.3	e0.98	2.1	4.1	2.5	7.9	2.1	2.7	6.2
23	4.5	2.9	4.5	1.9	1.0	2.1	4.5	2.6	7.8	2.2	2.4	2.5
24	4.5	3.1	3.6	1.8	1.8	2.1	4.6	2.6	7.6	3.8	2.3	2.3
25	4.1	3.0	3.2	1.6	1.1	2.0	4.3	2.9	7.2	3.3	2.1	2.4
26	3.9	3.0	3.2	1.1	1.0	2.2	4.4	2.9	23	2.8	2.0	3.2
27	4.5	2.8	2.6	e0.91	1.0	2.1	4.5	2.9	16	3.0	1.8	6.9
28	5.2	3.0	1.7	e0.95	1.0	2.0	4.0	3.3	8.7	3.5	1.9	4.7
29	4.9	3.2	1.3	1.0	1.0	2.2	3.0	2.9	7.9	4.0	2.0	3.5
30	3.9	3.1	1.3	e0.98	---	2.3	4.9	2.9	29	3.6	2.4	3.1
31	4.1	---	1.4	e0.95	---	2.4	---	3.1	---	3.9	1.9	---
TOTAL	109.0	129.7	97.9	64.09	28.87	65.08	118.1	87.8	242.7	183.9	161.8	76.1
MEAN	3.52	4.32	3.16	2.07	1.00	2.10	3.94	2.83	8.09	5.93	5.22	2.54
MAX	5.2	9.4	4.5	3.2	1.8	5.2	6.3	3.3	29	21	28	6.9
MIN	2.2	2.8	1.3	0.91	0.91	0.98	2.4	2.2	3.4	2.0	1.8	1.7
AC-FT	216	257	194	127	57	129	234	174	481	365	321	151

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2004, BY WATER YEAR (WY)

MEAN	26.2	22.2	6.34	6.80	14.4	9.87	15.8	47.3	59.6	77.3	98.3	91.8
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	0.86	1.00	0.63	0.26	0.64	0.62	0.65	1.19	1.36
(WY)	(1964)	(1984)	(1984)	(1963)	(2004)	(1963)	(1963)	(1963)	(1963)	(1963)	(1963)	(1983)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1963 - 2004	
ANNUAL TOTAL	1,346.7		1,365.04			
ANNUAL MEAN	3.69		3.73		a39.8	
HIGHEST ANNUAL MEAN					145	1999
LOWEST ANNUAL MEAN					1.62	1964
HIGHEST DAILY MEAN	20	Aug 10	29	Jun 30	6,860	Jun 18, 1969
LOWEST DAILY MEAN	1.3	Dec 29	0.91	Jan 27	0.10	Jan 12, 1963
ANNUAL SEVEN-DAY MINIMUM	2.1	Dec 25	0.93	Feb 8	0.10	Apr 16, 1963
MAXIMUM PEAK FLOW			428	Jul 17	b219,000	Sep 22, 1941
MAXIMUM PEAK STAGE			4.85	Jul 17	c29.30	Sep 22, 1941
ANNUAL RUNOFF (AC-FT)	2,670		2,710		28,810	
10 PERCENT EXCEEDS	4.8		6.2		26	
50 PERCENT EXCEEDS	3.4		3.0		2.9	
90 PERCENT EXCEEDS	2.7		1.1		1.7	

07227000 CANADIAN RIVER AT LOGAN, NM—Continued

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.
e Estimated

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 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT													
09...	1540	3.1	666	8.6	119	7.9	8,040	30.0	23.5	570	115	67.6	8.85
JAN													
28...	1500	1.4	664	9.9	97	8.0	8,070	14.0	7.0	590	125	67.6	8.92
MAR													
24...	1415	2.3	665	9.2	124	8.1	10,100	29.5	21.5	610	127	71.3	10.7
MAY													
05...	1230	3.1	670	7.1	93	8.0	8,920	30.5	20.5	540	103	68.3	8.25
JUN													
23...	1200	8.4	673	7.3	104	8.1	8,690	30.0	25.5	560	122	62.8	8.87
JUL													
16...	0945	2.7	--	--	--	8.0	8,050	--	24.5	--	--	--	--
AUG													
19...	1244	3.3	--	--	--	8.1	8,220	--	24.0	--	--	--	--
26...	1100	2.5	666	6.1	84	8.0	8,670	30.5	23.0	600	120	72.1	12.3
SEP													
22...	1107	4.6	--	--	--	8.0	6,490	20.0	21.0	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Boron, water, fltrd, ug/L (01020)	Iron, water, fltrd, ug/L (01046)
OCT									
09...	28	1,540	2,250	1.0	11.1	493	4,660	346	43
JAN									
28...	28	1,590	2,070	1.1	11.5	465	4,500	328	E16
MAR									
24...	30	1,720	2,560	1.1	10.4	539	5,220	384	E22
MAY									
05...	31	1,660	2,390	1.1	10.7	520	4,940	738	<32
JUN									
23...	28	1,510	2,230	1.1	10.7	512		353	<64
JUL									
16...	--	--	--	--	--	--	--	--	--
AUG									
19...	--	--	--	--	--	--	--	--	--
26...	29	1,620	2,430	1.1	10.7	528	4,990	415	<32
SEP									
22...	--	--	--	--	--	--	--	--	--

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

07227100 REVUELTO CREEK NEAR LOGAN, NM

LOCATION.--Lat 35°20'29", long 103°23'37", in SW ¼ NW ¼ 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 telemetry. Elevation of gage is 3,660 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Jan. 16, 1981, at site 320 ft upstream at datum 0.56 ft higher.

REMARKS.--Water-discharge records poor. Low flows supplemented by surface and ground-water return from irrigation in vicinity of Tucumcari.

EXTREMES OUTSIDE PERIOD OF RECORD (1941-47).--Maximum discharge determined, about 13,400 ft^3/s, Sept. 18, 1946, gage height, 9.04 ft, at site 180 ft downstream at different datum, from unpublished records collected by Bureau of Reclamation. A peak of 26,100 ft^3/s, date unknown, gage height, 12.9 ft, at former site and datum, was measured by slope-area method in May 1957.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.23	0.02	0.01	0.02	0.62	0.00	0.52	0.00	156	13	45
2	0.00	0.21	0.03	0.00	0.02	0.56	0.09	0.28	0.00	55	11	25
3	0.00	0.17	0.00	0.02	0.02	1.8	107	0.19	0.00	4.8	11	14
4	0.00	0.10	0.02	0.03	0.03	86	399	0.00	0.00	0.00	17	9.3
5	0.00	0.17	0.06	0.08	0.04	42	299	0.12	0.00	0.00	25	6.4
6	0.00	0.22	0.04	0.39	0.03	8.8	154	0.05	0.00	0.00	53	4.2
7	9.6	0.21	0.04	0.23	0.01	2.0	73	0.03	0.00	0.00	111	2.8
8	496	0.22	0.04	0.04	0.00	0.51	197	0.02	0.00	0.00	200	1.9
9	270	0.22	0.24	0.01	0.00	0.16	276	0.00	0.00	57	82	1.2
10	99	0.20	0.11	0.02	0.00	0.05	379	0.00	0.00	425	90	0.81
11	51	0.17	0.14	0.01	0.08	0.00	104	0.00	0.00	127	60	0.48
12	21	0.21	0.15	0.04	0.26	0.11	60	0.00	0.00	17	42	0.48
13	8.9	1.4	0.18	0.04	0.20	0.09	37	0.00	0.00	2.6	225	0.34
14	3.3	56	0.12	0.04	0.19	0.00	22	0.00	0.00	0.47	366	0.21
15	1.1	16	0.06	0.07	0.06	0.01	13	0.02	0.00	0.07	1,580	0.08
16	0.36	5.0	0.05	0.12	0.02	0.00	7.7	0.01	0.40	0.08	413	0.25
17	0.18	2.3	0.07	0.13	0.00	0.00	4.7	0.00	15	138	124	0.20
18	0.16	1.1	0.05	0.04	0.00	0.00	2.4	0.00	8.7	197	40	0.07
19	0.14	0.70	0.06	0.07	0.00	0.00	1.3	0.00	4.3	3.5	61	0.55
20	0.14	0.51	0.08	0.09	0.00	0.00	0.89	0.00	2.7	0.77	151	0.59
21	0.14	0.45	0.05	0.04	0.00	0.00	0.58	0.00	0.64	5.6	75	0.90
22	0.17	0.19	0.20	0.04	0.01	0.00	0.57	0.00	0.00	5.6	74	11
23	0.17	0.04	0.18	0.02	0.05	0.00	1.1	0.00	0.04	89	34	117
24	0.15	0.02	0.16	0.05	1.4	0.00	0.63	0.00	2.5	253	19	220
25	0.16	0.00	0.13	0.03	0.58	0.00	0.40	0.00	1.9	382	12	72
26	0.17	0.00	0.07	0.09	42	0.00	0.27	0.00	20	461	6.1	41
27	0.16	0.07	0.11	0.05	18	0.00	0.16	0.00	110	120	3.5	286
28	0.20	0.30	0.18	0.05	7.2	0.00	0.01	0.00	118	66	2.6	161
29	0.17	0.02	0.10	0.06	1.7	0.00	0.10	0.00	19	45	4.4	96
30	0.15	0.00	0.04	0.02	---	0.00	0.53	0.00	341	28	685	10
31	0.21	---	0.02	0.01	---	0.00	---	0.00	---	17	95	---
TOTAL	962.73	86.43	2.80	1.94	71.92	142.71	2,141.43	1.24	644.18	2,656.49	4,685.6	1,128.76
MEAN	31.1	2.88	0.09	0.06	2.48	4.60	71.4	0.04	21.5	85.7	151	37.6
MAX	496	56	0.24	0.39	42	86	399	0.52	341	461	1,580	286
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.6	0.07
AC-FT	1,910	171	5.6	3.8	143	283	4,250	2.5	1,280	5,270	9,290	2,240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

MEAN	38.0	9.69	9.34	5.34	6.89	9.28	28.3	44.9	76.8	112	118	66.6
MAX	320	41.2	129	27.9	42.5	79.3	346	203	492	1,203	575	515
(WY)	(1961)	(1999)	(1960)	(1990)	(1983)	(2001)	(1970)	(1991)	(1960)	(1960)	(1981)	(1969)
MIN	0.00	0.06	0.00	0.00	0.00	0.00	0.32	0.04	0.89	0.42	0.93	1.72
(WY)	(1965)	(1978)	(1976)	(1965)	(1965)	(1980)	(1981)	(2004)	(1990)	(1983)	(1978)	(1978)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1959 - 2004	
ANNUAL TOTAL	4,877.61		12,526.23			
ANNUAL MEAN	13.4		34.2		43.6	
HIGHEST ANNUAL MEAN					204	1960
LOWEST ANNUAL MEAN					4.72	1964
HIGHEST DAILY MEAN	971	Aug 30	1,580	Aug 15	13,800	Jul 9, 1960
LOWEST DAILY MEAN	0.00	Jan 12	0.00	Oct 1	0.00	Oct 20, 1959
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 8	0.00	Mar 16	0.00	Oct 20, 1959
MAXIMUM PEAK FLOW			4,840	Aug 15	a26,700	Jul 9, 1960
MAXIMUM PEAK STAGE			7.12	Aug 15	14.30	Jul 9, 1960
INSTANTANEOUS LOW FLOW			b0.00	Oct 1	b0.00	Oct 20, 1959
ANNUAL RUNOFF (AC-FT)	9,670		24,850		31,570	
10 PERCENT EXCEEDS	11		97		63	
50 PERCENT EXCEEDS	0.13		0.17		5.0	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

a From slope-area measurement of peak flow.
b Many days.

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 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT													
09...	1250	185	667	7.9	100	8.7	250	26.0	20.0	8	2.39	.596	1.22
JAN													
28...	1310	.08	666	10.6	101	8.3	6,130	12.5	6.5	370	68.7	47.8	4.79
MAR													
24...	1140	.01	664	8.3	--	8.4	E8,400	26.0	23.0	410	70.9	56.0	7.42
MAY													
05...	0900	.30	667	8.4	102	8.4	8,650	21.0	16.5	540	103	68.3	8.25
JUL													
16...	1217	.06	--	--	--	8.2	5,020	--	33.5	--	--	--	--
AUG													
19...	1745	16	--	--	--	8.8	537	--	27.8	--	--	--	--
26...	0845	5.0	666	7.4	89	8.3	1,610	27.0	17.5	150	38.1	14.0	3.96
SEP													
21...	1602	.04	--	--	--	8.3	5,030	27.0	25.5	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Boron, water, fltrd, ug/L (01020)	Iron, water, fltrd, ug/L (01046)
OCT												
09...	8	54.1	90	98	2	4.46	.4	7.1	18.0		99	7
JAN												
28...	27	1,200	--	--	--	1,680	.9	10.0	285	3,460	548	<19
MAR												
24...	31	1,450	--	--	--	2,100	1.1	10.4	303	4,180	730	<19
MAY												
05...	31	1,660	--	--	--	2,520	.9	10.3	347	4,910	738	<32
JUL												
16...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
19...	--	--	--	--	--	--	--	--	--	--	--	--
26...	10	294	--	--	--	326	.5	10.5	157	979	317	<6
SEP												
21...	--	--	--	--	--	--	--	--	--	--	--	--

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

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

WATER-QUALITY RECORDS

LOCATION.--Lat 35°23'35", long 103°02'30", in SW ¼ 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 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT													
10...	0950	212	668	7.4	91	8.4	705	23.0	19.0	21	5.61	1.81	2.09
MAR													
25...	0915	20	670	8.9	102	8.3	9,460	18.0	14.0	640	115	85.9	11.1
MAY													
04...	1210	8.2	674	8.8	122	8.3	11,100	33.0	23.5	660	121	87.7	11.0
AUG													
25...	0945	18	674	8.3	102	8.4	3,610	28.5	18.5	250	60.2	23.9	5.60

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Boron, water, fltrd, ug/L (01020)	Iron, water, fltrd, ug/L (01046)
OCT												
10...	13	139	109	122	2	117	.5	7.2	39.7		136	E5
MAR												
25...	32	1,880	--	--	--	2,810	.6	7.2	482	5,520	393	<32
MAY												
04...	32	1,920	--	--	--	2,990	.6	9.7	511	5,780	398	<32
AUG												
25...	17	626	--	--	--	916	.5	9.9	200	1,970	258	<19

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

08251500 RIO GRANDE NEAR LOBATOS, CO

LOCATION.--Lat 37°04'43", long 105°45'23", in NE ¼ NW ¼ 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, Colorado.

PERIOD OF RECORD.--July 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. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=08251500

REVISED RECORDS.-- WSP 210: drainage area. WSP 1312: 1919 (monthly discharge and runoff). WDR CO-78-1: 1976.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 7,427.63 ft above NGVD of 1929. Prior to Nov. 8, 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 storage reservoirs, transmountain diversions, diversions for irrigation and municipal use, ground-water withdrawals, return flows from irrigated areas, and flows from sewage-treatment plants.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage of June 18, 1903, is greatest since at least 1828.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	26	e230	e150	e195	e245	807	567	561	339	117	14
2	12	30	e205	e160	e200	e260	640	504	452	401	105	13
3	14	34	e205	e170	e200	e260	586	420	499	302	85	8.4
4	17	33	e195	e175	e200	e265	617	468	688	243	80	7.9
5	18	36	e190	e180	e205	e275	568	570	862	241	71	17
6	16	41	e200	e190	e200	e275	447	601	945	229	69	17
7	15	47	e220	e180	e195	e285	356	712	784	209	55	16
8	30	41	e220	e170	e190	e305	334	870	606	174	36	16
9	28	39	e180	e175	e190	e340	312	975	614	152	36	16
10	25	39	e145	e185	e185	e400	274	918	593	142	32	15
11	20	39	e160	e195	e190	e460	249	849	525	137	34	13
12	20	38	e125	e200	e155	e525	241	810	482	130	27	15
13	19	40	e160	e200	e180	e526	211	847	519	137	25	15
14	16	39	e180	e200	e195	551	168	764	468	139	24	14
15	16	41	e145	e200	e190	590	179	638	437	140	24	12
16	15	42	e165	e200	e185	617	210	612	557	127	28	11
17	15	51	e185	e205	e185	618	244	586	581	115	31	12
18	16	116	e180	e210	e190	598	316	797	490	110	29	13
19	16	204	e170	e215	e195	604	362	1,090	384	114	29	15
20	17	218	e175	e215	e195	647	333	1,180	425	126	22	18
21	18	219	e180	e185	e200	726	324	1,030	401	134	19	17
22	19	e220	e175	e225	e205	804	317	838	366	143	18	18
23	19	e220	e170	e205	e205	932	303	810	384	132	19	46
24	18	e160	e180	e190	e215	1,030	342	694	384	115	17	50
25	17	e230	e190	e200	e225	1,150	398	568	315	117	16	26
26	17	e200	e165	e185	e230	1,290	357	622	303	152	16	20
27	19	e200	e130	e185	e235	1,360	295	699	304	136	15	18
28	19	e175	e155	e195	e245	1,380	298	646	299	105	15	17
29	18	e140	e160	e195	e245	1,240	396	670	291	117	15	19
30	18	e190	e155	e195	---	1,080	531	721	287	111	15	20
31	17	---	e150	e200	---	956	---	704	---	99	14	---
TOTAL	555	3,148	5,445	5,935	5,825	20,594	11,015	22,780	14,806	5,068	1,138	529.3
MEAN	17.9	105	176	191	201	664	367	735	494	163	36.7	17.6
MAX	30	230	230	225	245	1,380	807	1,180	945	401	117	50
MIN	11	26	125	150	155	245	168	420	287	99	14	7.9
AC-FT	1,100	6,240	10,800	11,770	11,550	40,850	21,850	45,180	29,370	10,050	2,260	1,050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2004, BY WATER YEAR (WY)

MEAN	182	307	281	262	312	417	503	1,078	1,190	423	165	131
MAX	1,401	1,199	763	521	595	884	2,326	4,958	4,470	2,754	1,281	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	31.2	19.8	1.28	3.21	1.91
(WY)	(1957)	(1955)	(1964)	(1957)	(1957)	(1957)	(1935)	(2002)	(1977)	(1951)	(1956)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1931 - 2004	
ANNUAL TOTAL	37,215.7		96,838.3			
ANNUAL MEAN	102		265		a437	
HIGHEST ANNUAL MEAN					1,264	1987
LOWEST ANNUAL MEAN					70.9	1964
HIGHEST DAILY MEAN	279	Jun 10	1,380	Mar 28	b9,110	Jun 22, 1949
LOWEST DAILY MEAN	5.8	Aug 22	7.9	Sep 4	c0.00	Jul 16, 1950
ANNUAL SEVEN-DAY MINIMUM	8.6	Aug 20	12	Aug 29	0.00	Jul 16, 1950
MAXIMUM PEAK FLOW			1,420	Mar 28	d11,600	May 8, 1952
MAXIMUM PEAK STAGE			f2.91	Mar 28	g8.76	May 8, 1952
ANNUAL RUNOFF (AC-FT)	73,820		192,100		316,900	
10 PERCENT EXCEEDS	205		646		943	
50 PERCENT EXCEEDS	83		190		238	
90 PERCENT EXCEEDS	14		17		37	

e Estimated
a Average discharge for 31 years (water years 1900-30), 846 ft^3/s; 612,900 acre-ft/yr, includes period of extensive development for irrigation.
b Maximum daily discharge for period of record, 13,100 ft^3/s, June 8, 1905.
c No flow at times in 1950-51, 1956.
d Maximum discharge for period of record, 13,200 ft^3/s, June 8, 1905, gage height, 9.1 ft, from rating curve extended above 8,000 ft^3/s.
f Maximum gage height, 3.01 ft, Mar. 12, backwater from ice.
g Maximum gage height for period of record, 10.0 ft, June 18, 1903.

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 Costi11a."

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 fair except for those estimated, 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 periods of seasonal operation, 49 ft^3/s, May 11, gage height, 2.79 ft; minimum daily discharge, 2.0 ft^3/s, July 15.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	---	---	---	---	---	---	18	13	8.1	2.2	2.5
2	4.3	---	---	---	---	---	---	19	13	6.3	e4.1	2.4
3	6.1	---	---	---	---	---	---	21	13	5.5	e4.0	2.2
4	4.7	---	---	---	---	---	---	26	13	5.2	e3.8	2.4
5	3.4	---	---	---	---	---	---	30	13	5.0	e3.6	2.7
6	2.9	---	---	---	---	---	---	34	13	4.8	e5.2	2.3
7	2.8	---	---	---	---	---	e7.3	37	14	4.4	e3.6	2.2
8	---	---	---	---	---	---	7.1	39	13	3.8	e3.4	2.1
9	---	---	---	---	---	---	7.1	37	12	3.1	e3.3	2.1
10	---	---	---	---	---	---	6.3	40	11	3.3	e3.3	2.1
11	---	---	---	---	---	---	e5.3	42	9.9	5.3	e3.7	2.2
12	---	---	---	---	---	---	e4.5	43	9.3	4.2	3.1	2.2
13	---	---	---	---	---	---	e4.8	38	8.7	3.4	3.0	2.2
14	---	---	---	---	---	---	8.2	32	8.3	2.2	3.1	2.1
15	---	---	---	---	---	---	10	30	8.3	2.0	3.1	2.1
16	---	---	---	---	---	---	12	31	7.9	2.1	2.8	2.2
17	---	---	---	---	---	---	16	32	8.0	4.5	2.7	2.2
18	---	---	---	---	---	---	18	33	7.3	4.7	3.0	2.3
19	---	---	---	---	---	---	17	34	7.0	5.2	6.4	3.3
20	---	---	---	---	---	---	16	33	6.4	4.9	5.0	3.2
21	---	---	---	---	---	---	14	33	6.1	5.2	5.4	2.5
22	---	---	---	---	---	---	e9.5	30	6.2	5.0	3.8	2.5
23	---	---	---	---	---	---	e7.5	25	5.8	7.4	3.4	2.4
24	---	---	---	---	---	---	12	22	5.4	7.2	3.0	2.4
25	---	---	---	---	---	---	11	20	5.7	6.2	2.8	2.5
26	---	---	---	---	---	---	14	18	5.7	5.4	2.5	2.6
27	---	---	---	---	---	---	19	17	6.1	9.5	2.4	3.0
28	---	---	---	---	---	---	17	17	6.1	5.7	2.5	3.4
29	---	---	---	---	---	---	17	16	8.8	6.0	2.4	3.2
30	---	---	---	---	---	---	16	15	16	4.7	2.4	2.8
31	---	---	---	---	---	---	---	14	---	4.1	2.5	---
TOTAL	---	---	---	---	---	---	---	876	281.0	154.4	105.5	74.3
MEAN	---	---	---	---	---	---	---	28.3	9.37	4.98	3.40	2.48
MAX	--	---	---	---	---	---	--	43	16	9.5	6.4	3.4
MIN	--	---	---	---	---	---	--	14	5.4	2.0	2.2	2.1
AC-FT	---	---	---	---	---	---	---	1,740	557	306	209	147

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. l-7, 1947, and Nov. 1-16, 1948, published in WSP 1118 and 1148, are unreliable and should not be used.

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

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 9,437 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to July 18, 1940, water-stage recorder and wooden control 100 ft downstream at datum 1.56 ft lower. Prior to March 25, 1999, water-stage recorder and concrete control 140 ft downstream at same gage datum.

REMARKS.--Records good except for those estimated, which are fair. 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 periods of seasonal operation, 38 ft^3/s, May 20, gage height, 3.87 ft; minimum daily discharge, 3.9 ft^3/s, Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	---	---	---	---	---	---	17	27	18	11	6.3
2	14	---	---	---	---	---	---	15	26	16	11	5.8
3	15	---	---	---	---	---	---	15	27	15	11	5.5
4	11	---	---	---	---	---	---	17	28	15	10	6.3
5	9.4	---	---	---	---	---	---	20	30	14	11	6.6
6	8.7	---	---	---	---	---	---	23	31	14	10	5.6
7	8.2	---	---	---	---	---	e8.5	27	31	13	10	5.4
8	e8.3	---	---	---	---	---	9.0	29	31	13	9.8	5.2
9	---	---	---	---	---	---	9.5	31	31	12	9.3	5.1
10	---	---	---	---	---	---	7.9	33	30	13	9.1	5.0
11	---	---	---	---	---	---	e6.5	34	28	13	8.6	4.9
12	---	---	---	---	---	---	7.9	34	26	12	8.4	4.9
13	---	---	---	---	---	---	9.2	34	24	12	8.0	4.6
14	---	---	---	---	---	---	12	33	23	11	8.3	4.5
15	---	---	---	---	---	---	14	32	22	11	8.2	4.3
16	---	---	---	---	---	---	14	32	21	11	7.5	4.3
17	---	---	---	---	---	---	14	33	20	13	7.2	4.3
18	---	---	---	---	---	---	11	33	20	12	7.4	4.4
19	---	---	---	---	---	---	10	34	20	12	13	5.9
20	---	---	---	---	---	---	10	35	19	12	9.7	5.5
21	---	---	---	---	---	---	10	36	19	12	9.5	4.5
22	---	---	---	---	---	---	10	36	19	11	8.1	4.4
23	---	---	---	---	---	---	8.2	34	18	13	7.4	4.4
24	---	---	---	---	---	---	11	34	17	14	7.3	4.3
25	---	---	---	---	---	---	12	32	17	13	6.9	4.0
26	---	---	---	---	---	---	15	31	16	13	6.6	4.1
27	---	---	---	---	---	---	19	30	16	14	6.4	4.0
28	---	---	---	---	---	---	14	29	16	14	6.3	4.4
29	---	---	---	---	---	---	13	30	20	14	6.2	4.4
30	---	---	---	---	---	---	13	29	24	12	6.1	3.9
31	---	---	---	---	---	---	---	28	---	12	6.4	---
TOTAL	---	---	---	---	---	---	---	910	697	404	265.7	146.8
MEAN	---	---	---	---	---	---	---	29.4	23.2	13.0	8.57	4.89
MAX	--	---	---	---	---	---	--	36	31	18	13	6.6
MIN	--	---	---	---	---	---	--	15	16	11	6.1	3.9
AC-FT	---	---	---	---	---	---	---	1,800	1,380	801	527	291

e Estimated

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 Parsha11 flume. Elevation of gage is 9,520 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 27, 1940, water-stage recorder and wooden control at datum 0.99 ft lower.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge during periods of seasonal operation, 20 ft^3/s, June 29, 1995; maximum gage height, 1.73 ft, Aug. 11, 1941; minimum, 0.20 ft^3/s, Apr. 19, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during periods of seasonal operation, 5.6 ft^3/s, Aug. 19, gage height, 0.81 ft; minimum daily, 0.84 ft^3/s, Apr. 8, 9.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	---	---	---	---	---	---	1.4	4.4	2.5	1.7	1.2
2	1.7	---	---	---	---	---	---	1.5	4.3	2.4	1.6	1.2
3	1.6	---	---	---	---	---	---	1.6	4.3	2.3	1.7	1.2
4	1.3	---	---	---	---	---	---	1.9	4.2	2.3	1.8	1.3
5	1.2	---	---	---	---	---	---	2.2	4.2	2.3	1.7	1.2
6	1.1	---	---	---	---	---	---	2.5	4.1	2.2	1.7	1.2
7	1.1	---	---	---	---	---	e0.85	2.8	4.1	2.2	1.6	1.1
8	e1.1	---	---	---	---	---	0.84	2.9	4.0	2.1	1.6	1.1
9	---	---	---	---	---	---	0.84	3.0	4.1	2.1	1.5	1.1
10	---	---	---	---	---	---	0.87	3.2	4.0	2.1	1.5	1.1
11	---	---	---	---	---	---	e0.85	3.4	4.0	2.0	1.5	1.1
12	---	---	---	---	---	---	0.96	3.5	3.9	1.9	1.5	1.1
13	---	---	---	---	---	---	e0.87	3.4	3.9	1.9	1.4	1.0
14	---	---	---	---	---	---	0.88	3.5	3.9	1.8	1.5	1.0
15	---	---	---	---	---	---	0.94	3.6	3.8	1.9	1.4	0.98
16	---	---	---	---	---	---	0.97	3.9	3.7	1.8	1.4	0.97
17	---	---	---	---	---	---	1.1	4.1	3.6	2.0	1.3	0.96
18	---	---	---	---	---	---	1.1	4.4	3.4	1.8	1.4	0.96
19	---	---	---	---	---	---	1.1	4.7	3.3	1.8	2.4	1.2
20	---	---	---	---	---	---	1.1	5.0	3.2	1.8	1.7	1.1
21	---	---	---	---	---	---	1.1	5.2	3.1	1.8	1.7	0.93
22	---	---	---	---	---	---	1.1	5.2	3.1	1.8	1.5	0.92
23	---	---	---	---	---	---	0.96	5.1	2.9	1.9	1.4	0.91
24	---	---	---	---	---	---	1.4	5.1	2.8	1.9	1.4	0.91
25	---	---	---	---	---	---	1.2	5.0	2.8	1.8	1.3	0.96
26	---	---	---	---	---	---	1.4	4.9	2.7	2.0	1.3	0.96
27	---	---	---	---	---	---	1.3	4.9	2.7	1.9	1.3	0.92
28	---	---	---	---	---	---	1.3	4.8	2.6	2.0	1.3	0.94
29	---	---	---	---	---	---	1.3	4.8	3.2	1.8	1.3	0.97
30	---	---	---	---	---	---	1.4	4.6	3.2	1.7	1.2	0.92
31	---	---	---	---	---	---	---	4.5	---	1.7	1.3	---
TOTAL	---	---	---	---	---	---	---	116.6	107.5	61.5	46.9	31.41
MEAN	---	---	---	---	---	---	---	3.76	3.58	1.98	1.51	1.05
MAX	--	---	---	---	---	---	---	5.2	4.4	2.5	2.4	1.3
MIN	--	---	---	---	---	---	---	1.4	2.6	1.7	1.2	0.91
AC-FT	---	---	---	---	---	---	---	231	213	122	93	62

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 16,500 acre-ft June 1-4, 1994, June 19-22, 1995, gage height, 107.61 ft; no storage Oct. 1925 to Feb. 1926, Sept. 1956, Aug. 22 to Sept. 24, 1972, July 29 to Sept. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 10,500 acre-ft, May 23-28, gage height, 91.77 ft; minimum, 2,250 acre-ft, Sept. 29 and 30, gage height, 56.69 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,660	3,350	3,810	4,230	4,610	4,970	5,780	7,240	10,400	8,110	6,310	4,360
2	2,710	3,370	3,830	4,250	4,620	4,990	5,830	7,310	10,300	8,070	6,270	4,280
3	2,760	3,390	3,840	4,260	4,640	5,000	5,860	7,400	10,300	8,040	6,230	4,190
4	2,790	3,400	3,850	4,270	4,650	5,010	5,900	7,500	10,200	8,010	6,200	4,110
5	2,820	3,410	3,870	4,280	4,670	5,020	5,930	7,610	10,200	7,980	6,160	4,010
6	2,850	3,420	3,880	4,290	4,680	5,030	5,960	7,750	10,100	7,950	6,130	3,910
7	2,880	3,440	3,900	4,300	4,690	5,040	5,980	7,900	10,100	7,890	6,100	3,810
8	2,900	3,450	3,920	4,310	4,700	5,060	6,020	8,060	9,980	7,830	6,040	3,720
9	2,930	3,470	3,930	4,330	4,710	5,080	6,050	8,230	9,900	7,770	5,950	3,630
10	2,950	3,490	3,950	4,340	4,720	5,110	6,080	8,410	9,830	7,710	5,860	3,540
11	2,970	3,500	3,960	4,350	4,740	5,140	6,110	8,590	9,750	7,660	5,770	3,470
12	2,990	3,520	3,980	4,360	4,750	5,170	6,140	8,790	9,680	7,600	5,670	3,390
13	3,010	3,550	3,990	4,370	4,760	5,200	6,170	8,960	9,590	7,530	5,590	3,320
14	3,030	3,560	4,010	4,380	4,770	5,230	6,210	9,120	9,510	7,470	5,510	3,250
15	3,050	3,570	4,020	4,400	4,780	5,260	6,260	9,260	9,420	7,410	5,430	3,180
16	3,070	3,590	4,030	4,410	4,790	5,280	6,300	9,410	9,340	7,340	5,350	3,110
17	3,090	3,600	4,040	4,420	4,800	5,300	6,370	9,560	9,250	7,300	5,270	3,040
18	3,110	3,620	4,060	4,430	4,820	5,330	6,420	9,720	9,160	7,230	5,200	2,970
19	3,130	3,630	4,070	4,440	4,830	5,370	6,480	9,880	9,070	7,130	5,170	2,910
20	3,150	3,650	4,090	4,460	4,850	5,400	6,530	10,100	8,960	7,040	5,130	2,840
21	3,160	3,670	4,100	4,470	4,860	5,440	6,580	10,200	8,830	6,950	5,100	2,770
22	3,180	3,680	4,110	4,490	4,870	5,470	6,650	10,400	8,700	6,860	5,040	2,700
23	3,200	3,690	4,130	4,500	4,880	5,510	6,700	10,500	8,570	6,780	4,970	2,620
24	3,220	3,710	4,140	4,510	4,900	5,550	6,740	10,500	8,440	6,710	4,910	2,550
25	3,230	3,720	4,160	4,530	4,920	5,580	6,780	10,500	8,340	6,640	4,840	2,480
26	3,250	3,730	4,170	4,540	4,930	5,620	6,860	10,500	8,260	6,590	4,770	2,400
27	3,270	3,750	4,180	4,550	4,930	5,660	6,940	10,500	8,190	6,540	4,700	2,340
28	3,290	3,760	4,190	4,560	4,950	5,680	7,020	10,500	8,140	6,490	4,630	2,290
29	3,310	3,780	4,200	4,570	4,960	5,700	7,090	10,400	8,130	6,450	4,560	2,250
30	3,320	3,790	4,210	4,580	---	5,730	7,160	10,400	8,140	6,400	4,500	2,250
31	3,340	---	4,220	4,600	---	5,750	---	10,400	---	6,360	4,430	---
MAX	3,340	3,790	4,220	4,600	4,960	5,750	7,160	10,500	10,400	8,110	6,310	4,360
MIN	2,660	3,350	3,810	4,230	4,610	4,970	5,780	7,240	8,130	6,360	4,430	2,250
(+)	63.42	65.89	68.04	69.87	71.57	75.09	80.67	91.53	84.24	77.57	69.10	56.69
(++)	+700	+450	+430	+380	+360	+790	+1,410	+3,240	-2,260	-1,780	-1,930	-2,180

CAL YR 2003 MAX 5,360 MIN 2,210 (++) +2,010
WTR YR 2004 MAX 10,500 MIN 2,250 (++) -390

(+) 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, 1988-02). Monthly discharge only for some periods, published in WSP 1312. Prior to October 1951, published as "below reservoir near Costilla."

REVISED RECORDS.--WSP 1923: drainage area.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 9,300 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 7, 1989, at site 500 ft upstream at different datum.

REMARKS.--Records 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 discharge during periods of seasonal operation, 96 ft^3/s, June 6; minimum daily, 0.12 ft^3/s, Apr. 15-21, 27, 28, and May 1-10.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.23	---	---	---	---	---	---	0.12	56	45	39	43
2	0.33	---	---	---	---	---	---	0.12	60	42	35	45
3	0.33	---	---	---	---	---	---	0.12	63	38	34	48
4	0.35	---	---	---	---	---	---	0.12	63	36	34	50
5	0.35	---	---	---	---	---	---	0.12	64	35	34	52
6	0.35	---	---	---	---	---	---	0.12	70	37	34	53
7	0.32	---	---	---	---	---	e0.21	0.12	88	45	35	52
8	e0.21	---	---	---	---	---	0.21	0.12	86	47	41	51
9	---	---	---	---	---	---	0.20	0.12	81	48	55	51
10	---	---	---	---	---	---	0.17	0.12	78	49	55	47
11	---	---	---	---	---	---	0.13	0.69	75	50	57	44
12	---	---	---	---	---	---	0.15	1.2	73	53	59	41
13	---	---	---	---	---	---	0.16	1.3	73	51	55	39
14	---	---	---	---	---	---	0.13	1.3	73	49	52	39
15	---	---	---	---	---	---	0.12	1.5	74	49	52	40
16	---	---	---	---	---	---	0.12	1.5	74	49	52	41
17	---	---	---	---	---	---	0.12	1.5	73	49	49	41
18	---	---	---	---	---	---	0.12	1.5	72	57	46	41
19	---	---	---	---	---	---	0.12	1.5	71	71	45	41
20	---	---	---	---	---	---	0.12	1.5	76	67	40	40
21	---	---	---	---	---	---	0.12	1.5	87	63	37	40
22	---	---	---	---	---	---	0.13	1.5	86	61	40	42
23	---	---	---	---	---	---	0.13	19	88	60	43	43
24	---	---	---	---	---	---	0.14	54	90	60	43	42
25	---	---	---	---	---	---	0.15	53	74	56	42	42
26	---	---	---	---	---	---	0.16	52	65	49	42	42
27	---	---	---	---	---	---	0.12	53	60	47	41	39
28	---	---	---	---	---	---	0.12	53	51	46	41	32
29	---	---	---	---	---	---	0.13	53	49	42	40	28
30	---	---	---	---	---	---	0.17	53	47	40	38	13
31	---	---	---	---	---	---	---	53	---	40	41	---
TOTAL	---	---	---	---	---	---	---	460.69	2,140	1,531	1,351	1,262
MEAN	---	---	---	---	---	---	---	14.9	71.3	49.4	43.6	42.1
MAX	---	---	---	---	---	---	---	54	90	71	59	53
MIN	---	---	---	---	---	---	---	0.12	47	35	34	13
AC-FT	---	---	---	---	---	---	---	914	4,240	3,040	2,680	2,500

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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 and 1943). Monthly discharge only for March 1943 and water-year estimate for 1943, published in WSP 1312.

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

GAGE.--Water-stage recorder with satellite telemetry. Concrete control since Oct. 13, 1952. Elevation of gage is 7,936 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 18, 1944, at site 200 ft downstream at different datum. June 18, 1944, to Sept. 30, 1964, at site 0.4 mi upstream at different datum.

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

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	8.4	e9.2	e6.3	e6.0	e9.5	22	74	85	66	53	53
2	13	8.6	e9.0	e6.2	e5.8	e9.5	26	75	87	60	49	53
3	17	8.9	e7.9	e6.4	e6.2	e11	27	66	89	52	46	54
4	17	e8.0	e8.2	e6.6	e6.0	e10	26	72	92	50	45	60
5	15	e7.9	e8.5	e7.2	e6.0	e12	25	84	90	46	46	60
6	13	e7.5	e9.0	e7.2	e6.2	e12	27	98	90	45	45	62
7	12	e7.3	e9.3	e7.7	e6.0	e13	28	103	110	52	44	61
8	12	9.2	e8.6	e7.2	e5.8	e14	32	102	113	55	44	61
9	11	8.6	e7.0	e6.8	e5.8	15	36	105	106	56	58	60
10	9.4	8.7	e7.5	e7.1	e5.8	15	39	103	104	56	59	59
11	9.4	8.8	e7.4	e7.5	e5.6	23	33	101	99	56	60	53
12	9.1	8.4	e7.6	e7.6	e5.6	25	34	102	91	57	64	51
13	8.9	9.5	e7.0	e7.5	e4.5	29	32	97	88	57	63	47
14	8.4	11	e8.1	e6.4	e5.3	27	38	87	88	54	57	47
15	8.5	8.7	e6.4	e7.1	e5.9	27	43	84	90	57	57	46
16	8.4	8.2	e7.7	e7.6	e6.3	24	51	78	89	57	56	47
17	8.5	e9.2	e6.0	e7.8	e6.1	22	57	76	87	61	54	47
18	8.5	e8.6	e7.2	e6.4	e6.2	24	65	74	82	61	52	47
19	8.6	e11	e6.5	e7.3	e7.2	27	56	75	81	73	59	51
20	8.5	e11.2	e6.9	e8.2	e7.3	30	54	69	80	74	58	53
21	8.5	e11	e7.2	e7.2	e7.3	31	50	70	91	73	52	49
22	8.5	e10.5	e6.8	e5.8	e7.6	37	46	63	94	71	49	49
23	8.3	e7.7	e6.5	e6.6	e7.6	34	46	58	97	74	53	49
24	8.3	e6.8	e6.8	e6.5	e7.7	34	46	100	94	77	53	49
25	8.5	e7.3	e7.1	e5.9	e8.3	33	52	97	92	76	52	50
26	e8.4	e7.8	e6.6	e6.3	e8.6	32	52	97	79	69	51	51
27	9.4	e7.6	e5.1	e5.6	e8.9	32	67	95	77	67	50	51
28	9.8	e7.8	e6.5	e5.4	e8.9	26	74	92	68	61	51	45
29	9.0	e9.0	e6.7	e5.8	e9.5	23	68	92	68	64	51	40
30	8.6	e8.5	e6.4	e5.9	---	21	76	91	83	56	47	36
31	8.4	---	e6.3	e6.0	---	21	---	88	---	54	49	---
TOTAL	312.9	261.7	227.0	209.1	194.0	703.0	1,328	2,668	2,684	1,887	1,627	1,541
MEAN	10.1	8.72	7.32	6.75	6.69	22.7	44.3	86.1	89.5	60.9	52.5	51.4
MAX	17	11	9.3	8.2	9.5	37	76	105	113	77	64	62
MIN	8.3	6.8	5.1	5.4	4.5	9.5	22	58	68	45	44	36
AC-FT	621	519	450	415	385	1,390	2,630	5,290	5,320	3,740	3,230	3,060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2004, BY WATER YEAR (WY)

MEAN	15.3	11.6	8.65	7.83	9.27	18.1	49.3	117	114	83.6	68.1	36.4
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	27.3	23.8	15.5	7.93
(WY)	(1964)	(1965)	(1964)	(1964)	(1964)	(1964)	(1956)	(1967)	(2002)	(1946)	(2002)	(1974)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1942 - 2004	
ANNUAL TOTAL	10,508.3		13,642.7			
ANNUAL MEAN	28.8		37.3		45.3	
HIGHEST ANNUAL MEAN					134	1942
LOWEST ANNUAL MEAN					15.5	2002
HIGHEST DAILY MEAN	127	May 25	113	Jun 8	1,000	May 11, 1942
LOWEST DAILY MEAN	3.5	Feb 4	4.5	Feb 13	1.0	Dec 1, 1958
ANNUAL SEVEN-DAY MINIMUM	4.2	Feb 3	5.5	Feb 8	2.5	Dec 5, 1964
MAXIMUM PEAK FLOW			120	Jun 8	1,150	May 11, 1942
MAXIMUM PEAK STAGE			2.95	Jun 8	a5.37	May 11, 1942
INSTANTANEOUS LOW FLOW			4.5	Feb 13	0.34	Mar 15, 1969
ANNUAL RUNOFF (AC-FT)	20,840		27,060		32,840	
10 PERCENT EXCEEDS	61		87		115	
50 PERCENT EXCEEDS	19		30		19	
90 PERCENT EXCEEDS	6.5		6.5		6.4	

a Site and datum then in use.
e Estimated

08261000 COSTILLA CREEK NEAR 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. Concrete control since Oct. 9, 1956. Elevation of gage is 7,821 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Apr. 20, 1950, at site 0.4 mi downstream at different datum.

REMARKS.--Records poor. Flow partly regulated by Costilla Reservoir (station 08253900) 22 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge during periods of seasonal operation, 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, 110 ft^3/s, June 19, gage height, 3.53 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	---	---	---	---	---	---	29	6.4	1.7	0.00	0.00
2	0.00	---	---	---	---	---	---	29	8.1	0.00	0.00	0.00
3	2.9	---	---	---	---	---	---	15	10	0.00	0.00	0.00
4	4.2	---	---	---	---	---	---	18	14	0.00	0.00	0.00
5	3.1	---	---	---	---	---	---	34	11	0.00	0.00	0.00
6	1.9	---	---	---	---	---	---	51	9.7	0.00	0.00	0.00
7	1.5	---	---	---	---	---	e0.00	44	8.8	0.00	0.00	0.00
8	1.4	---	---	---	---	---	e0.00	36	8.0	0.00	0.00	0.00
9	e1.0	---	---	---	---	---	e0.00	40	3.6	0.00	0.00	0.00
10	---	---	---	---	---	---	e0.00	22	5.7	0.00	0.00	0.00
11	---	---	---	---	---	---	e0.00	9.3	5.8	0.00	0.00	0.00
12	---	---	---	---	---	---	e0.00	11	7.1	0.00	0.00	0.00
13	---	---	---	---	---	---	e0.00	8.5	7.6	0.00	12	0.00
14	---	---	---	---	---	---	e0.00	5.1	5.9	0.00	56	0.00
15	---	---	---	---	---	---	e0.00	3.8	5.4	0.00	22	0.00
16	---	---	---	---	---	---	e0.00	2.6	8.4	0.00	0.00	0.00
17	---	---	---	---	---	---	e0.00	5.5	5.5	2.2	0.00	0.00
18	---	---	---	---	---	---	e0.00	9.8	23	1.9	0.00	0.00
19	---	---	---	---	---	---	1.7	8.4	95	3.9	0.00	0.45
20	---	---	---	---	---	---	e3.0	7.3	33	2.9	0.00	3.6
21	---	---	---	---	---	---	3.2	7.6	2.2	2.1	0.00	1.1
22	---	---	---	---	---	---	6.0	7.0	2.6	1.1	0.00	0.65
23	---	---	---	---	---	---	8.3	6.3	3.8	0.03	0.00	0.83
24	---	---	---	---	---	---	9.4	10	1.3	0.84	0.00	0.00
25	---	---	---	---	---	---	12	6.4	1.5	0.00	0.00	0.00
26	---	---	---	---	---	---	7.8	6.8	0.55	0.00	0.00	0.00
27	---	---	---	---	---	---	20	9.7	0.00	0.15	0.00	0.00
28	---	---	---	---	---	---	29	8.4	0.00	0.00	0.00	0.00
29	---	---	---	---	---	---	22	6.0	0.04	0.00	0.01	0.00
30	---	---	---	---	---	---	32	6.3	18	0.00	0.00	0.00
31	---	---	---	---	---	---	---	6.6	---	0.00	0.00	---
TOTAL	---	---	---	---	---	---	---	470.4	311.99	16.82	90.01	6.63
MEAN	---	---	---	---	---	---	---	15.2	10.4	0.54	2.90	0.22
MAX	---	---	---	---	---	---	---	51	95	3.9	56	3.6
MIN	---	---	---	---	---	---	---	2.6	0.00	0.00	0.00	0.00
AC-FT	---	---	---	---	---	---	---	933	619	33	179	13

e Estimated

08263500 RIO GRANDE NEAR CERRO, NM

LOCATION.--Lat 36°44'24", long 105°41'01", in NW ¼ NE ¼ 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, Colorado.

PERIOD OF RECORD.--May 1948 to September 1994, October 1995 to current year.

REVISED RECORDS.--WDR NM-80-l: 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 fair. 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 the year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	53	200	175	214	264	889	602	675	299	130	49
2	48	53	244	175	210	266	742	584	538	362	148	49
3	49	62	220	187	220	282	615	505	489	381	143	48
4	50	65	225	191	217	281	626	448	580	291	121	48
5	51	67	215	201	217	288	643	540	783	254	112	47
6	53	69	217	200	220	302	e630	591	893	253	e110	46
7	53	75	229	213	216	298	e540	656	922	242	e110	48
8	51	84	250	203	212	317	e480	763	688	223	e100	50
9	51	84	249	191	209	336	e440	938	653	196	e81	50
10	63	78	193	198	209	380	e430	940	628	181	e68	49
11	61	75	154	207	204	439	e400	856	602	174	e64	49
12	58	75	177	218	206	509	e370	818	530	167	e61	49
13	55	81	137	222	159	592	e350	800	517	163	e62	48
14	54	78	178	224	194	596	e280	823	550	168	e57	48
15	53	73	203	222	212	614	e230	711	476	171	e52	49
16	52	75	161	224	206	622	e280	631	487	172	e50	47
17	51	76	178	223	203	650	e300	618	589	162	e50	47
18	51	76	201	225	204	634	e320	650	572	152	e51	46
19	52	116	194	232	208	620	e340	934	476	143	e60	47
20	52	223	185	239	211	634	e390	1,150	409	143	e63	48
21	52	234	193	238	214	694	363	1,150	434	156	e61	48
22	53	234	200	203	219	760	355	924	402	165	e57	49
23	54	217	191	248	221	861	367	847	375	172	e53	50
24	54	179	188	226	225	966	330	794	397	168	e52	50
25	54	141	201	211	233	1,070	398	671	375	150	e52	90
26	54	196	212	221	240	1,170	443	608	318	145	e52	69
27	54	178	192	207	247	1,270	367	707	314	182	49	58
28	54	187	147	202	251	1,320	318	697	311	170	49	54
29	55	173	183	210	264	1,280	324	665	309	138	49	52
30	55	150	187	212	---	1,130	469	706	306	148	49	51
31	54	---	179	213	---	995	---	740	---	148	49	---
TOTAL	1,648	3,527	6,083	6,561	6,265	20,440	13,029	23,067	15,598	6,039	2,265	1,533
MEAN	53.2	118	196	212	216	659	434	744	520	195	73.1	51.1
MAX	63	234	250	248	264	1,320	889	1,150	922	381	148	90
MIN	47	53	137	175	159	264	230	448	306	138	49	46
AC-FT	3,270	7,000	12,070	13,010	12,430	40,540	25,840	45,750	30,940	11,980	4,490	3,040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2004, BY WATER YEAR (WY)

MEAN	212	345	298	296	353	471	518	918	1,080	440	240	187
MAX	1,310	1,073	774	566	657	1,010	2,335	4,577	4,400	2,181	1,273	970
(WY)	(1998)	(1987)	(1987)	(1987)	(1987)	(1987)	(1987)	(1987)	(1949)	(1986)	(1999)	(1999)
MIN	52.7	88.1	100	116	140	110	104	75.5	58.1	49.4	44.5	44.8
(WY)	(1957)	(1957)	(1964)	(1957)	(1957)	(1957)	(2003)	(2002)	(1977)	(2002)	(2002)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1949 - 2004	
ANNUAL TOTAL	49,559		106,055			
ANNUAL MEAN	136		290		446	
HIGHEST ANNUAL MEAN					1,275	1987
LOWEST ANNUAL MEAN					112	1964
HIGHEST DAILY MEAN	303	Jun 11	1,320	Mar 28	9,440	Jun 22, 1949
LOWEST DAILY MEAN	45	Aug 24	46	Sep 6	40	Sep 10, 1977
ANNUAL SEVEN-DAY MINIMUM	47	Sep 24	47	Sep 13	42	Sep 5, 1977
MAXIMUM PEAK FLOW			1,360	Mar 28	9,740	Jun 22, 1949
MAXIMUM PEAK STAGE			7.17	Mar 28	15.78	Jun 22, 1949
INSTANTANEOUS LOW FLOW			45	Sep 6	40	Sep 10, 1977
ANNUAL RUNOFF (AC-FT)	98,300		210,400		323,300	
10 PERCENT EXCEEDS	234		672		960	
50 PERCENT EXCEEDS	123		208		267	
90 PERCENT EXCEEDS	51		51		77	

e Estimated

08265000 RED RIVER NEAR QUESTA, NM

LOCATION.--Lat 36°42'12", long 105°34'06", in NE ¼ SE ¼ sec.32, T.29 N., R.13 E. (projected), Taos County, Hydrologic Unit 13020101, in Carson National Forest, on left bank 1.3 mi upstream from Cabresto Creek, 1.5 mi east of Questa, and at mile 9.0.

DRAINAGE AREA.--113 mi^2.

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

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

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

REMARKS.--Records good except for those estimated, which are poor. Diversions for irrigation of a few hundred acres upstream from station. Figures of discharge do not include flow in South ditch, which diverts from left bank 1,500 ft upstream and bypasses gage for irrigation and stock water downstream. Jan. 1966 to Dec. 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 the year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	14	e8.0	e7.5	e11	e6.0	23	58	68	37	25	13
2	20	14	e8.5	e8.0	e9.3	e8.0	27	58	66	33	21	15
3	29	15	e8.0	e8.0	e10.5	e10	28	62	65	31	18	15
4	27	15	e7.0	e7.0	e10	e11	27	71	67	30	18	16
5	23	14	e8.0	e3.0	e8.0	e8.0	28	84	69	29	17	22
6	21	14	e9.0	e2.7	e7.0	e7.5	26	103	69	27	17	18
7	20	14	e9.0	e4.5	e8.5	e9.0	24	117	70	27	16	17
8	19	14	e9.2	e5.0	e9.5	e10.5	27	125	69	25	16	16
9	19	13	e9.5	e4.0	e8.5	e12	28	127	68	25	17	16
10	18	13	e6.0	e5.0	e5.0	e12	28	128	66	24	17	15
11	18	14	e9.0	e5.5	e5.5	e13	27	137	63	25	16	15
12	18	e12	e7.0	e4.5	e4.0	e10.5	26	138	59	24	16	15
13	18	e13	e4.0	e4.0	e3.5	e13	25	129	55	23	16	15
14	17	14	e7.0	e3.8	e4.5	e14	28	111	52	23	17	15
15	17	e12	e6.0	e6.0	e6.0	e16	30	99	50	24	19	14
16	17	13	e5.0	e7.0	e6.5	e15	34	95	48	24	19	14
17	16	e10	e4.0	e8.2	e7.3	15	37	96	46	23	18	13
18	16	e9.5	e6.0	e7.0	e9.3	15	43	99	44	30	16	13
19	15	e10	e7.0	e5.7	e12	16	45	100	43	27	19	21
20	15	e11	e8.0	e8.3	e10	17	43	97	41	30	23	39
21	15	e12	e5.5	e6.0	e8.0	18	43	108	40	30	18	27
22	15	e13	e6.0	e8.7	e8.0	19	41	107	39	28	17	24
23	15	e9.0	e5.0	e5.7	e6.0	21	43	100	38	29	19	22
24	15	e8.0	e3.5	e7.0	e8.0	22	41	91	35	34	18	21
25	15	e11	e5.0	e9.0	e8.0	23	41	85	35	31	18	20
26	14	e8.1	e6.5	e7.5	e8.0	25	40	78	34	29	15	20
27	15	e9.0	e5.0	e4.0	e11	28	45	74	33	30	14	20
28	15	e8.0	e3.5	e9.0	e10	24	48	72	34	29	13	22
29	15	e10	e4.0	e10	e7.0	22	53	74	40	30	12	29
30	14	e9.0	e6.0	e12	---	22	60	73	45	28	12	24
31	14	---	e7.0	e11	---	22	---	70	---	26	12	---
TOTAL	542	355.6	202.2	204.6	229.9	484.5	1,059	2,966	1,551	865	529	566
MEAN	17.5	11.9	6.52	6.60	7.93	15.6	35.3	95.7	51.7	27.9	17.1	18.9
MAX	29	15	9.5	12	12	28	60	138	70	37	25	39
MIN	14	8.0	3.5	2.7	3.5	6.0	23	58	33	23	12	13
AC-FT	1,080	705	401	406	456	961	2,100	5,880	3,080	1,720	1,050	1,120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2004, BY WATER YEAR (WY)

MEAN	22.1	16.4	11.6	11.9	12.4	15.6	35.9	113	130	59.4	37.5	27.8
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	9.63	7.02	8.49	5.63	8.81
(WY)	(1973)	(1977)	(1975)	(1973)	(1977)	(1977)	(1971)	(2002)	(2002)	(2002)	(2002)	(1978)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1966 - 2004	
ANNUAL TOTAL	9,578.6		9,554.8			
ANNUAL MEAN	26.2		26.1		a41.2	
HIGHEST ANNUAL MEAN					87.6	1979
LOWEST ANNUAL MEAN					10.2	2002
HIGHEST DAILY MEAN	123	May 30	138	May 12	557	Jun 9, 1979
LOWEST DAILY MEAN	3.5	Dec 24	2.7	Jan 6	2.5	Jan 6, 1971
ANNUAL SEVEN-DAY MINIMUM	4.6	Dec 23	4.2	Jan 5	3.1	Jan 2, 1973
MAXIMUM PEAK FLOW			147	May 11	b886	May 25, 1942
MAXIMUM PEAK STAGE			3.32	May 11	5.80	Jun 8, 1979
INSTANTANEOUS LOW FLOW					0.60	Jan 21, 1981
ANNUAL RUNOFF (AC-FT)	19,000		18,950		29,860	
10 PERCENT EXCEEDS	66		66		102	
50 PERCENT EXCEEDS	16		17		21	
90 PERCENT EXCEEDS	5.5		6.0		7.8	

a Average discharge for 52 years (water years 1913-25, 1927-65), 55.9 ft^3/s, 40,500 acre-ft/yr, prior to extensive upstream diversions by Molycorp.
b From rating curve extended above 450 ft^3/s.
e Estimated

08266820 RED RIVER BELOW FISH HATCHERY NEAR QUESTA, NM

LOCATION.--Lat 36°40'58", long 105°39'15", in NE ¼ NW ¼ NW ¼ sec.10, T.28 N., R.12 E., Taos County, Hydrologic Unit 13020101, on right bank at the State Fish Hatchery, 3.7 mi southwest of Questa, and 3.8 mi upstream from mouth.

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 0.25 mi downstream at datum 11.54 ft lower.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	44	37	e35	e33	33	50	74	85	52	40	33
2	39	44	39	e34	e24	36	55	75	79	49	38	32
3	50	42	e38	e33	e27	36	57	78	78	48	37	32
4	49	42	e37	e29	e26	36	57	88	84	47	37	33
5	45	e41	e39	e27	e24	36	57	101	87	47	36	38
6	42	41	41	e28	e24	33	56	114	87	44	37	39
7	41	41	48	e33	e24	36	54	124	85	42	35	37
8	40	41	48	e32	e28	37	58	138	85	40	34	34
9	39	40	46	e37	e26	39	57	138	82	40	35	34
10	38	39	e38	e35	e28	40	58	144	79	40	34	33
11	38	39	e40	e36	e27	41	57	149	76	39	34	33
12	39	38	40	e36	e28	41	55	151	73	39	34	32
13	39	45	e41	e35	e24	42	55	142	70	41	33	32
14	39	e44	e42	e33	e31	42	58	126	68	42	33	33
15	41	e42	44	e38	e30	43	60	115	67	41	33	34
16	39	e40	e46	e41	e32	43	65	111	65	42	32	34
17	38	36	35	e37	e34	41	70	109	63	42	32	33
18	38	35	37	e34	e36	41	70	109	61	46	31	34
19	38	33	37	e32	37	42	69	112	58	45	32	35
20	38	34	39	e32	36	44	68	111	57	45	34	52
21	37	38	41	e27	35	45	65	119	56	44	33	49
22	36	41	44	e24	35	47	65	116	54	43	35	46
23	35	30	43	e25	34	50	67	112	51	44	37	45
24	35	e29	e36	e29	35	51	65	105	48	52	37	44
25	35	32	e42	e30	35	51	65	100	49	48	36	43
26	36	35	e44	e27	35	51	62	97	49	46	34	40
27	38	34	e36	e24	36	53	64	94	49	48	32	40
28	39	e33	e29	e26	35	52	64	93	49	45	32	43
29	40	e35	e37	e29	35	48	68	95	53	47	31	53
30	42	e38	e37	e30	---	47	79	92	59	43	32	48
31	44	---	e36	e35	---	48	---	89	---	42	33	---
TOTAL	1,220	1,146	1,237	983	894	1,325	1,850	3,421	2,006	1,373	1,063	1,148
MEAN	39.4	38.2	39.9	31.7	30.8	42.7	61.7	110	66.9	44.3	34.3	38.3
MAX	50	45	48	41	37	53	79	151	87	52	40	53
MIN	33	29	29	24	24	33	50	74	48	39	31	32
AC-FT	2,420	2,270	2,450	1,950	1,770	2,630	3,670	6,790	3,980	2,720	2,110	2,280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2004, BY WATER YEAR (WY)

MEAN	51.3	46.4	42.1	42.5	42.8	46.5	73.4	179	190	94.5	65.5	57.5
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	30.8	30.8	34.6	32.8	27.1	27.5	29.3	25.2	31.2
(WY)	(1979)	(1979)	(1979)	(2003)	(2004)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(1978)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1978 - 2004	
ANNUAL TOTAL	18,249		17,666			
ANNUAL MEAN	50.0		48.3		77.8	
HIGHEST ANNUAL MEAN					129	1979
LOWEST ANNUAL MEAN					33.9	2002
HIGHEST DAILY MEAN	145	Sep 10	151	May 12	676	May 27, 1979
LOWEST DAILY MEAN	27	Jan 2	24	Jan 22	23	Jul 31, 2002
ANNUAL SEVEN-DAY MINIMUM	28	Jan 1	25	Feb 2	24	Jul 29, 2002
MAXIMUM PEAK FLOW			162	May 12	755	Jun 8, 1979
MAXIMUM PEAK STAGE			4.54	May 12	a5.30	Jun 8, 1979
INSTANTANEOUS LOW FLOW					18	Aug 18, 2002
ANNUAL RUNOFF (AC-FT)	36,200		35,040		56,380	
10 PERCENT EXCEEDS	84		79		148	
50 PERCENT EXCEEDS	41		40		52	
90 PERCENT EXCEEDS	31		32		35	

a Site and datum then in use.
e Estimated

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 fair except for those estimated, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	14	e12	e10	e10	e6.0	18	21	55	24	17	15
2	18	14	e10	e12	e4.0	e8.0	19	21	53	23	17	15
3	19	14	e8.0	e12	e10	e9.0	19	22	53	22	18	15
4	18	13	e7.5	e7.5	e11	e10	19	28	54	22	18	16
5	17	12	e8.5	e4.5	e9.0	e8.5	19	42	52	22	18	17
6	17	12	e9.5	e4.0	e6.5	e4.5	19	52	52	21	18	15
7	17	12	e10.5	e7.5	e8.0	e11	19	59	51	21	17	15
8	16	12	e9.0	10	e10	11	19	65	49	21	17	14
9	16	12	e6.5	e6.0	e7.0	11	19	68	48	20	20	14
10	16	12	e7.0	e6.5	e7.5	12	20	72	46	20	22	14
11	16	12	e8.5	e5.0	e7.5	13	19	76	44	20	19	14
12	16	12	e11	e6.0	e8.5	13	19	77	42	19	18	13
13	16	13	e6.0	e4.5	e6.5	14	19	71	41	19	17	13
14	16	12	e7.5	e4.5	e7.0	14	19	65	40	19	17	13
15	16	11	e11	e7.5	e7.5	13	19	63	38	19	17	13
16	16	11	e7.0	e8.0	e6.5	13	20	65	36	19	17	13
17	16	11	e6.0	e8.0	e8.5	13	20	69	35	21	16	13
18	16	10	e10	e4.5	e11	14	21	72	34	25	16	13
19	16	11	e11	e2.5	e13	15	21	76	33	20	17	23
20	16	11	e12	e8.0	e7.5	17	21	79	32	19	19	39
21	16	11	e12	e8.0	e6.5	17	21	79	31	19	17	20
22	16	11	e12	e3.0	e5.0	18	20	79	31	19	17	18
23	15	e9.9	e7.5	e3.0	e4.5	19	20	77	29	19	16	17
24	15	e8.5	e6.0	e5.0	e5.0	19	20	73	28	20	16	17
25	15	e8.0	e7.0	e10	e4.0	19	19	70	27	19	16	16
26	14	11	e10	e3.0	e4.5	19	19	66	26	19	15	16
27	15	e10	e8.0	e2.0	e6.0	20	19	65	25	18	15	16
28	15	e9.0	e4.0	e3.5	e7.5	19	20	63	26	18	15	16
29	14	e9.0	e3.0	e7.5	e3.0	19	20	63	25	18	15	18
30	14	11	e7.5	e7.5	---	18	22	61	28	18	15	17
31	14	---	e8.0	e8.5	---	18	---	57	---	17	15	---
TOTAL	494	339.4	263.5	199.5	212.5	435.0	588	1,916	1,164	620	527	488
MEAN	15.9	11.3	8.50	6.44	7.33	14.0	19.6	61.8	38.8	20.0	17.0	16.3
MAX	19	14	12	12	13	20	22	79	55	25	22	39
MIN	14	8.0	3.0	2.0	3.0	4.5	18	21	25	17	15	13
AC-FT	980	673	523	396	421	863	1,170	3,800	2,310	1,230	1,050	968

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2004, BY WATER YEAR (WY)

MEAN	18.2	14.7	11.9	10.6	10.6	14.2	33.3	93.9	110	47.1	28.4	21.9
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	9.49	7.96	6.97	6.03	6.08	7.60	11.1	12.7	8.44	7.61	6.39	8.13
(WY)	(2003)	(2003)	(2003)	(1935)	(1935)	(1964)	(1977)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1935 - 2004	
ANNUAL TOTAL	8,463.5		7,246.9			
ANNUAL MEAN	23.2		19.8		34.6	
HIGHEST ANNUAL MEAN					69.9	1942
LOWEST ANNUAL MEAN					9.99	2002
HIGHEST DAILY MEAN	89	May 19	79	May 20	416	May 13, 1941
LOWEST DAILY MEAN	3.0	Dec 29	2.0	Jan 27	2.0	Jan 27, 2004
ANNUAL SEVEN-DAY MINIMUM	6.5	Dec 23	4.2	Jan 22	4.2	Jan 18, 1935
MAXIMUM PEAK FLOW			82	May 20	541	May 13, 1941
MAXIMUM PEAK STAGE			1.95	May 20	a4.89	Feb 2, 1994
INSTANTANEOUS LOW FLOW					b1.0	Jan 27, 1942
ANNUAL RUNOFF (AC-FT)	16,790		14,370		25,080	
10 PERCENT EXCEEDS	58		45		83	
50 PERCENT EXCEEDS	16		16		17	
90 PERCENT EXCEEDS	7.3		6.8		9.5	

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

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)
APR 28...	0830	20	572	10.2	103	7.6	144	4.0	3.5	<.20	<.20	<.01	.01

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)
APR 28...	.23	<.010	<.01	<.02	<.02

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

08268700 RIO GRANDE NEAR ARROYO HONDO, NM

LOCATION.--Lat 36°32'06", long 105°42'36", in NW $^1/_4$ sec.31, T.27 N., R.12 E., Taos County, Hydrologic Unit 13020101, on right bank 350 ft downstream from Arroyo Hondo, 400 ft downstream from bridge on NM Highway 111, 2.2 mi west of Arroyo Hondo, 11 mi northwest of Taos, and at mile 1,677.4.

DRAINAGE AREA.--8,760 mi^2, approximately, including 2,940 mi^2 in closed basin in San Luis Valley, Colorado.

PERIOD OF RECORD.--February 1963 to October 1996, June 2002 to current year.

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

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	172	311	307	349	402	1,100	766	916	452	258	158
2	168	172	360	301	332	403	957	787	771	489	265	158
3	179	177	353	309	352	421	816	716	671	559	269	157
4	183	186	334	319	348	426	795	637	735	469	250	160
5	180	189	338	313	350	425	819	707	959	394	238	162
6	180	192	334	313	336	440	755	819	1,100	392	233	161
7	180	195	369	337	339	437	637	878	1,170	374	227	159
8	178	203	372	335	340	461	568	1,010	951	352	220	161
9	175	208	388	320	329	487	530	1,200	846	321	202	160
10	183	202	336	321	329	525	511	1,240	833	306	188	158
11	191	198	298	330	327	591	466	1,170	805	292	184	157
12	185	201	290	345	332	657	429	1,130	731	289	181	156
13	180	210	262	352	297	761	412	1,090	689	284	182	155
14	176	208	287	353	292	759	388	1,120	724	289	176	154
15	176	201	323	356	337	789	343	999	664	290	173	155
16	174	197	291	358	332	785	336	888	633	297	171	154
17	169	200	289	363	326	819	386	871	748	286	171	153
18	169	197	320	351	330	812	421	861	755	285	172	153
19	170	201	320	360	337	792	502	1,140	658	276	180	160
20	170	317	308	374	338	798	568	1,420	556	268	184	172
21	170	354	313	381	341	854	541	1,470	589	278	181	175
22	169	356	323	329	347	933	526	1,240	573	285	178	172
23	171	337	323	367	349	1,030	537	1,120	542	293	175	171
24	170	288	307	358	353	1,150	513	1,080	550	308	172	170
25	170	277	319	345	359	1,250	544	944	551	284	169	195
26	168	297	336	346	370	1,350	604	831	487	268	166	200
27	171	301	330	328	378	1,450	563	905	466	302	160	181
28	172	290	273	325	383	1,510	488	936	467	303	159	171
29	172	294	285	327	398	1,490	486	887	463	277	158	189
30	175	275	308	339	---	1,350	599	917	482	269	158	178
31	174	---	301	341	---	1,200	---	968	---	280	158	---
TOTAL	5,408	7,095	9,901	10,503	9,930	25,557	17,140	30,747	21,085	10,111	5,958	4,965
MEAN	174	236	319	339	342	824	571	992	703	326	192	166
MAX	191	356	388	381	398	1,510	1,100	1,470	1,170	559	269	200
MIN	160	172	262	301	292	402	336	637	463	268	158	153
AC-FT	10,730	14,070	19,640	20,830	19,700	50,690	34,000	60,990	41,820	20,060	11,820	9,850

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2004, BY WATER YEAR (WY)

MEAN	350	503	428	427	490	661	763	1,290	1,512	711	373	316
MAX	905	1,200	832	640	758	1,077	2,620	5,542	5,013	3,321	941	988
(WY)	(1970)	(1987)	(1987)	(1986)	(1987)	(1987)	(1985)	(1987)	(1985)	(1995)	(1968)	(1982)
MIN	155	215	210	260	292	323	220	203	168	152	140	158
(WY)	(1978)	(2003)	(1964)	(1977)	(1964)	(2003)	(1967)	(1977)	(1977)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1963 - 2004	
ANNUAL TOTAL	98,626		158,400			
ANNUAL MEAN	270		433		663	
HIGHEST ANNUAL MEAN					1,522	1987
LOWEST ANNUAL MEAN					233	1964
HIGHEST DAILY MEAN	556	Jun 3	1,510	Mar 28	7,290	May 19, 1987
LOWEST DAILY MEAN	156	Aug 25	153	Sep 17	138	Aug 2, 1963
ANNUAL SEVEN-DAY MINIMUM	161	Aug 21	154	Sep 12	138	Aug 13, 2002
MAXIMUM PEAK FLOW			1,550	Mar 28	7,550	May 19, 1987
MAXIMUM PEAK STAGE			3.52	Mar 28	8.52	May 19, 1987
INSTANTANEOUS LOW FLOW			150	Sep 18	133	Aug 18, 2002
ANNUAL RUNOFF (AC-FT)	195,600		314,200		480,600	
10 PERCENT EXCEEDS	390		893		1,270	
50 PERCENT EXCEEDS	256		331		438	
90 PERCENT EXCEEDS	169		170		211	

08269000 RIO PUEBLO DE TAOS NEAR TAOS, NM

LOCATION.--Lat 36°26'22", long 105°30'11", in SW ¼ SE ¼ sec.36, T.26 N., R.13 E., Taos County, Hydrologic Unit 13020101, in Taos Pueblo Grant, on right bank 2.3 mi east of Taos Pueblo, 4.5 mi northeast of Taos, 5.8 mi upstream from Rio Lucero, and at mile 15.1.

DRAINAGE AREA.--66.6 mi^2.

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

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

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

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	5.0	e4.7	e4.4	e4.2	e4.8	21	41	26	13	8.0	5.9
2	5.4	5.1	e4.6	e4.5	e4.3	e4.9	25	38	25	11	7.6	5.4
3	7.6	5.2	e4.6	e4.3	e4.4	e5.0	28	38	24	9.7	7.6	5.1
4	8.8	5.4	e4.6	e4.0	e4.4	e5.2	26	43	24	9.1	7.3	10
5	7.0	4.8	e4.7	e3.8	e4.3	e5.0	24	53	24	8.8	7.1	e7.9
6	6.4	4.9	e4.6	e4.1	e4.3	e4.7	24	63	24	8.4	7.3	e5.2
7	6.2	5.2	e4.9	e4.5	e4.8	e5.1	24	67	24	8.4	7.1	e5.3
8	6.2	5.3	e4.8	e4.2	e4.7	e5.7	27	70	23	8.1	6.7	e4.9
9	5.9	5.2	e4.4	e4.2	e4.7	e6.1	30	70	23	7.6	11	5.1
10	6.3	5.2	e4.8	e4.3	e4.7	e8.5	31	70	22	7.3	8.8	4.8
11	7.6	5.2	e5.0	e4.3	e4.6	e9.0	29	71	21	7.4	7.0	4.8
12	6.3	5.3	e5.0	e4.2	e3.8	e10	27	70	20	7.6	6.6	4.6
13	5.9	5.6	e4.2	e4.0	e4.1	e12	28	65	18	7.0	6.6	4.5
14	5.9	6.5	e5.2	e4.1	e4.3	13	31	58	17	6.8	6.5	4.5
15	5.6	6.0	e4.9	e4.2	e4.5	12	35	52	16	6.9	6.3	4.3
16	5.6	5.4	e4.8	e4.2	e4.8	12	39	49	15	7.2	6.6	4.3
17	5.6	e5.9	e5.5	e4.0	e4.9	11	42	48	14	6.9	6.4	4.3
18	5.4	e4.3	e5.6	e3.8	e4.9	13	44	47	14	8.1	6.3	4.3
19	5.3	4.3	e5.5	e4.1	e5.2	16	43	46	13	7.3	7.4	9.8
20	5.3	e4.6	e5.3	e4.1	e5.2	19	42	46	13	8.3	11	11
21	5.3	e4.8	e5.3	e4.0	e4.4	22	39	46	12	7.6	8.0	7.7
22	5.3	e4.5	e5.0	e4.0	e4.4	23	37	45	12	7.9	7.5	6.5
23	5.3	e4.1	e5.0	e3.8	e4.4	26	37	43	12	9.5	6.9	6.1
24	5.3	e4.5	e5.2	e4.4	e4.6	27	33	40	12	12	6.3	5.9
25	5.3	e4.6	e5.2	e4.1	e4.5	29	31	37	11	11	6.0	5.7
26	5.1	e4.5	e5.4	e4.1	e4.6	29	30	34	9.9	15	5.7	6.0
27	5.4	e4.4	e5.0	e3.6	e5.0	31	31	32	9.7	11	5.5	6.1
28	5.5	e4.4	e4.2	e3.9	e4.9	26	35	30	12	10	5.4	5.9
29	5.3	e4.5	e4.3	e4.1	e4.7	22	40	29	17	11	5.4	6.8
30	5.2	e4.7	e4.3	e4.4	---	21	44	29	19	9.1	5.5	6.2
31	5.0	---	e4.4	e4.4	---	20	---	28	---	8.4	5.7	---
TOTAL	181.4	149.4	151.0	128.1	132.6	458.0	977	1,498	526.6	277.4	217.1	178.9
MEAN	5.85	4.98	4.87	4.13	4.57	14.8	32.6	48.3	17.6	8.95	7.00	5.96
MAX	8.8	6.5	5.6	4.5	5.2	31	44	71	26	15	11	11
MIN	5.0	4.1	4.2	3.6	3.8	4.7	21	28	9.7	6.8	5.4	4.3
AC-FT	360	296	300	254	263	908	1,940	2,970	1,040	550	431	355

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2004, BY WATER YEAR (WY)

MEAN	9.56	8.91	7.71	6.74	7.29	13.5	48.4	114	70.2	22.1	14.7	11.1
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	3.84	4.80	3.85	3.39	3.64	5.58	11.3	4.71	2.74	2.69	1.80	3.17
(WY)	(2003)	(1982)	(2003)	(1964)	(1964)	(1964)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1913 - 2004	
ANNUAL TOTAL	5,883.9		4,875.5			
ANNUAL MEAN	16.1		13.3		28.6	
HIGHEST ANNUAL MEAN					72.3	1979
LOWEST ANNUAL MEAN					5.32	2002
HIGHEST DAILY MEAN	82	May 19	71	May 11	926	May 26, 1979
LOWEST DAILY MEAN	3.4	Jan 2	3.6	Jan 27	1.4	Aug 18, 2002
ANNUAL SEVEN-DAY MINIMUM	3.8	Feb 4	4.0	Jan 17	1.5	Aug 13, 2002
MAXIMUM PEAK FLOW			114	Sep 19	a1,050	May 26, 1979
MAXIMUM PEAK STAGE			1.66	Sep 19	b3.90	May 14, 1941
INSTANTANEOUS LOW FLOW					0.69	Feb 27, 1991
ANNUAL RUNOFF (AC-FT)	11,670		9,670		20,750	
10 PERCENT EXCEEDS	48		35		71	
50 PERCENT EXCEEDS	6.2		6.2		10	
90 PERCENT EXCEEDS	4.1		4.3		5.4	

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

08271000 RIO LUCERO NEAR ARROYO SECO, NM

LOCATION.--Lat 36°30'30", long 105°31'51", Taos County, Hydrologic Unit 13020101, in Tract C Taos Pueblo Grant, on right bank 200 ft upstream from diversion dam for Tenorio and Indian ditches, 2.2 mi east of Arroyo Seco, 7.4 mi northeast of Taos, and at mile 8.1.

DRAINAGE AREA.--16.6 mi^2.

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

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

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

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	7.4	e5.9	e4.8	e4.3	e3.9	14	15	31	15	9.9	8.0
2	11	7.3	e5.5	e4.9	e4.4	e3.9	16	15	30	15	9.8	7.9
3	12	7.3	e5.4	e4.8	e4.5	e4.0	16	16	29	14	9.9	7.7
4	12	6.7	e5.4	e4.6	e4.5	e3.9	15	20	30	14	9.6	9.4
5	11	e5.9	e5.2	e4.5	e4.3	e3.8	14	25	31	14	9.4	9.4
6	11	e6.1	e5.1	e4.8	e4.3	e4.0	13	31	31	13	9.5	8.2
7	10	6.8	e5.3	e4.8	e4.4	e4.1	13	38	31	12	9.3	7.9
8	10	7.0	e5.1	e4.7	e4.3	e4.5	14	42	30	12	9.0	7.8
9	9.8	6.7	e5.0	e4.7	e4.3	5.2	15	46	29	12	9.6	7.7
10	9.7	6.7	e5.0	e4.8	e4.3	5.8	15	51	28	12	10	7.5
11	10	6.8	e5.4	e4.8	e4.2	6.7	13	55	27	12	9.3	7.4
12	9.5	6.7	e5.1	e4.8	e4.5	7.5	13	55	26	12	9.0	7.3
13	9.1	6.9	e5.3	e4.7	e4.4	8.1	12	50	25	12	8.8	7.2
14	9.1	6.7	e5.6	e4.7	e4.4	8.3	13	44	24	12	8.7	7.1
15	8.8	e5.5	e5.7	e4.8	e4.4	8.1	15	42	23	12	8.8	7.0
16	8.8	e5.0	e5.7	e4.8	e4.0	8.2	17	42	22	12	8.8	6.9
17	8.7	e4.7	e5.5	e4.7	e4.7	8.3	19	44	21	11	8.6	e6.7
18	8.5	e4.3	e5.3	e4.6	e4.7	9.3	20	48	20	13	8.4	e7.0
19	8.4	e4.2	e4.8	e4.7	e4.5	11	19	49	20	11	10	e18
20	8.3	e4.5	e4.8	e4.7	e4.3	13	18	52	19	11	12	e22
21	8.1	e4.7	e4.9	e4.4	e4.3	14	17	55	19	11	10	e16
22	8.0	e5.0	e4.8	e4.4	e4.3	16	16	54	18	11	9.7	e9.8
23	8.0	e5.6	e4.8	e4.5	e4.3	16	15	50	18	13	9.2	e8.8
24	8.0	e5.9	e4.6	e4.5	e4.2	17	14	45	17	12	9.0	e8.4
25	7.9	e5.8	e4.6	e4.3	e4.1	17	13	41	17	12	8.7	e8.1
26	e6.8	e5.6	e4.5	e4.3	e4.1	17	12	38	16	12	8.5	e8.6
27	7.8	e5.7	e4.4	e4.3	e4.1	17	13	36	15	11	8.3	e8.8
28	7.7	e5.7	e4.5	e4.4	e4.0	16	14	35	16	11	8.3	e8.0
29	7.6	e5.9	e4.7	e4.4	e3.8	14	15	36	16	11	8.1	e9.5
30	7.4	e6.0	e4.7	e4.4	---	14	16	35	17	10	8.1	e8.7
31	7.4	---	e4.8	e4.4	---	14	---	33	---	10	8.2	---
TOTAL	280.4	179.1	157.4	143.0	124.9	303.6	449	1,238	696	375	284.5	272.8
MEAN	9.05	5.97	5.08	4.61	4.31	9.79	15.0	39.9	23.2	12.1	9.18	9.09
MAX	12	7.4	5.9	4.9	4.7	17	20	55	31	15	12	22
MIN	6.8	4.2	4.4	4.3	3.8	3.8	12	15	15	10	8.1	6.7
AC-FT	556	355	312	284	248	602	891	2,460	1,380	744	564	541

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2004, BY WATER YEAR (WY)

MEAN	11.2	8.86	7.10	5.94	5.93	9.13	21.6	57.7	68.3	29.3	17.8	13.4
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	4.81	4.82	3.78	3.51	3.47	4.11	7.46	6.04	4.51	4.38	3.61	4.80
(WY)	(2003)	(2003)	(2003)	(1951)	(1964)	(1977)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1913 - 2004	
ANNUAL TOTAL	5,850.3		4,503.7			
ANNUAL MEAN	16.0		12.3		21.6	
HIGHEST ANNUAL MEAN					46.7	1941
LOWEST ANNUAL MEAN					5.34	2002
HIGHEST DAILY MEAN	91	May 29	55	May 11	246	Jun 4, 1942
LOWEST DAILY MEAN	3.3	Feb 7	3.8	Feb 29	2.0	Jan 28, 1981
ANNUAL SEVEN-DAY MINIMUM	3.5	Feb 3	3.9	Feb 28	2.7	Jan 22, 1981
MAXIMUM PEAK FLOW			60	May 11	310	Jun 8, 1979
MAXIMUM PEAK STAGE			2.41	May 11	3.17	Jun 20, 1995
INSTANTANEOUS LOW FLOW					1.4	Nov 2, 1951
ANNUAL RUNOFF (AC-FT)	11,600		8,930		15,670	
10 PERCENT EXCEEDS	38		27		53	
50 PERCENT EXCEEDS	9.4		8.7		11	
90 PERCENT EXCEEDS	3.9		4.4		5.2	

e Estimated

08275500 RIO GRANDE DEL RANCHO NEAR TALPA, NM

LOCATION.--Lat 35°18'05", long 105°34'54", Taos County, Hydrologic Unit 13020101, in Carson National Forest, Rancho del Rio Grande Grant, on right bank 1.6 mi downstream from Rito de la Olla (loca11y known as Pot Creek), 3.2 mi south of Talpa, 4.1 mi upstream from Rio Chiquito, and at mile 6.7.

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 "near Taos," and October 1955 to September 1960, as "Rio Grande de Ranchos near 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. Minor diversions for irrigation above station. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	3.4	3.0	e3.2	e2.5	2.6	7.3	20	20	8.1	4.1	2.8
2	2.9	3.3	3.1	e3.4	e2.0	2.8	8.9	19	19	6.7	3.9	2.6
3	3.5	3.4	3.1	e3.5	e2.5	3.1	11	20	17	6.0	4.0	2.7
4	5.2	3.4	e2.1	e3.1	e2.8	3.2	10	22	16	5.6	3.8	3.0
5	4.9	3.5	e2.2	e1.8	e2.2	3.2	9.4	26	16	5.4	4.4	3.5
6	4.5	3.4	e2.8	e2.2	e1.8	3.0	9.6	34	15	4.9	4.9	3.2
7	4.5	3.3	e2.3	e2.5	e1.6	3.4	9.9	41	15	4.7	4.3	3.0
8	4.6	3.3	e3.1	e2.9	e2.3	3.7	11	48	14	4.4	3.9	2.7
9	4.4	3.4	e2.6	e2.2	e1.5	3.8	11	51	14	4.2	3.7	2.5
10	4.7	3.4	e2.1	e2.4	e1.5	4.0	11	54	13	4.1	3.6	2.3
11	5.2	3.4	e2.2	e2.5	e1.2	4.2	11	55	12	3.8	3.7	2.2
12	4.9	3.7	e2.8	e2.7	e1.1	4.5	10	58	12	3.8	3.8	2.2
13	4.6	4.1	e1.9	e2.4	e3.2	4.8	9.6	55	11	4.3	3.9	2.1
14	4.4	4.0	e2.0	e2.0	e2.8	5.1	9.6	49	10	4.1	3.8	2.1
15	4.3	3.9	e2.6	e2.3	e3.5	5.4	10	43	9.7	4.4	4.1	1.9
16	4.3	3.8	e1.8	e2.4	e2.5	5.6	11	40	9.4	4.5	4.2	2.0
17	4.1	3.6	e1.3	e2.4	e3.6	5.7	14	40	8.6	4.0	3.7	2.0
18	4.0	3.6	e2.2	e1.8	e2.1	5.8	17	39	8.3	4.0	4.1	1.9
19	4.0	3.2	e2.8	e1.5	1.8	6.2	19	39	7.9	4.4	4.9	3.0
20	3.9	3.2	e2.5	e2.1	1.7	6.4	19	40	7.6	3.9	4.4	3.6
21	3.7	3.2	e2.5	e2.3	1.8	6.9	18	41	7.4	3.9	4.3	3.4
22	3.7	3.3	e2.7	e1.5	1.9	7.5	17	41	7.3	4.2	4.1	3.4
23	3.6	e2.0	e2.0	e1.7	1.9	7.7	18	39	7.8	7.1	3.7	3.4
24	3.5	e1.8	e1.9	e2.6	2.0	7.9	16	36	7.4	10	3.5	3.2
25	3.6	2.6	e2.2	e2.8	2.2	8.2	15	33	6.9	8.3	3.4	3.1
26	3.7	2.8	e2.6	e1.9	2.2	8.5	13	30	6.8	7.2	3.1	3.2
27	3.6	e2.1	e1.8	e1.5	2.4	8.9	14	28	7.1	6.3	2.9	3.4
28	3.6	e1.9	e1.4	e2.3	2.5	8.4	16	25	7.9	5.7	2.7	3.7
29	3.6	e2.2	e1.8	e3.1	2.5	7.8	19	24	8.2	5.8	2.7	3.7
30	3.5	e2.4	e2.3	e3.1	---	7.5	22	23	9.6	5.1	2.7	3.8
31	3.5	---	e2.9	e3.1	---	7.3	---	22	---	4.6	2.7	---
TOTAL	125.3	94.6	72.6	75.2	63.6	173.1	397.3	1,135	331.9	163.5	117.0	85.6
MEAN	4.04	3.15	2.34	2.43	2.19	5.58	13.2	36.6	11.1	5.27	3.77	2.85
MAX	5.2	4.1	3.1	3.5	3.6	8.9	22	58	20	10	4.9	3.8
MIN	2.8	1.8	1.3	1.5	1.1	2.6	7.3	19	6.8	3.8	2.7	1.9
AC-FT	249	188	144	149	126	343	788	2,250	658	324	232	170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004, BY WATER YEAR (WY)

MEAN	7.16	6.47	5.55	5.07	5.36	9.10	29.8	88.6	49.1	13.5	11.6	8.39
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	1.53	1.68	2.19	4.55	6.64	3.76	1.73	1.67	0.88	1.44
(WY)	(1957)	(1957)	(2003)	(2003)	(2004)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1953 - 2004	
ANNUAL TOTAL	4,590.6		2,834.7			
ANNUAL MEAN	12.6		7.75		20.0	
HIGHEST ANNUAL MEAN					44.0	1994
LOWEST ANNUAL MEAN					3.23	2002
HIGHEST DAILY MEAN	102	May 19	58	May 12	590	May 22, 1991
LOWEST DAILY MEAN	1.3	Dec 17	1.1	Feb 12	0.58	Aug 19, 2002
ANNUAL SEVEN-DAY MINIMUM	1.5	Jan 1	1.6	Feb 6	0.64	Aug 14, 2002
MAXIMUM PEAK FLOW			61	May 12	644	May 22, 1991
MAXIMUM PEAK STAGE			5.31	May 12	5.70	May 20, 2003
INSTANTANEOUS LOW FLOW					0.20	Jan 5, 1955
ANNUAL RUNOFF (AC-FT)	9,110		5,620		14,520	
10 PERCENT EXCEEDS	41		19		45	
50 PERCENT EXCEEDS	3.6		3.8		7.6	
90 PERCENT EXCEEDS	1.8		2.0		3.6	

e Estimated

08276300 RIO PUEBLO DE TAOS BELOW LOS CORDOVAS, NM

LOCATION.--Lat 36°22'38", long 105°40'02", Taos County, Hydrologic Unit 13020101, in Gijosa Grant, on left bank 1.9 mi southwest of Los Cordovas, 2.5 mi downstream from Rio Grande del Rancho, and at mile 5.1.

DRAINAGE AREA.--380 mi^2.

PERIOD OF RECORD.--March 1957 to current year.

REVISED RECORDS.--WSP 1732: 1957(M). WSP 1923: 1957(P), 1958. WDR NM-81-1: 1979(P).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,650 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Sept. 4, 1984, at site 700 ft downstream at same datum.

REMARKS.--Records good except for those estimated, which are poor. Diversions for irrigation of about 12,000 acres upstream from station, of which about 1,700 acres are irrigated by water from Rio Hondo.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	13	20	21	20	19	21	41	11	4.2	1.6	3.0
2	9.5	14	19	22	28	20	24	37	11	4.0	1.9	3.0
3	12	14	20	23	25	25	37	32	10	2.7	3.3	2.9
4	15	16	20	21	20	30	32	34	9.0	2.0	2.5	5.0
5	12	15	20	22	19	29	29	43	7.8	2.2	2.8	9.1
6	12	15	20	23	28	24	28	60	6.7	1.1	4.4	5.4
7	12	15	20	24	35	23	29	79	6.5	1.4	2.2	3.0
8	14	16	24	23	32	23	45	87	6.3	1.3	2.0	2.6
9	14	16	24	23	35	23	47	94	5.1	0.77	2.6	2.0
10	13	17	21	23	37	25	45	98	5.0	0.94	2.7	2.3
11	15	16	21	23	34	27	46	109	5.2	1.2	3.4	3.1
12	15	18	22	22	29	28	43	112	4.9	0.93	3.2	4.6
13	12	26	22	23	35	29	37	107	4.3	1.5	3.9	2.6
14	12	25	22	22	34	29	38	98	4.5	0.83	3.0	2.5
15	12	23	22	21	39	29	39	76	4.2	0.87	3.0	3.3
16	13	e22	23	23	29	26	43	61	2.9	1.2	3.0	3.4
17	13	e20	23	22	23	24	45	51	2.4	0.80	3.7	3.1
18	12	18	22	19	22	23	42	43	3.3	0.70	3.0	3.3
19	12	17	22	20	24	20	42	46	3.3	1.0	6.7	6.7
20	12	18	22	20	25	21	43	47	2.3	0.98	5.3	18
21	12	18	21	21	23	23	39	43	2.7	0.87	6.0	14
22	12	19	21	21	24	25	34	49	e3.0	1.5	3.9	10
23	12	21	21	27	24	28	39	40	e3.5	3.3	3.0	10
24	12	17	21	32	22	32	36	32	3.4	3.9	3.4	9.3
25	12	17	22	22	22	35	34	27	2.4	8.5	3.7	8.6
26	12	17	22	28	20	36	31	21	2.2	3.8	3.0	9.2
27	13	17	21	26	21	37	28	17	2.6	2.8	3.0	8.0
28	14	18	20	32	22	33	32	15	4.7	3.4	3.0	5.8
29	13	19	21	31	20	26	36	14	5.0	3.1	3.0	8.0
30	13	21	21	28	---	e23	43	13	6.1	2.8	3.0	7.7
31	13	---	21	23	---	e21	---	12	---	2.6	3.0	---
TOTAL	389.2	538	661	731	771	816	1,107	1,638	151.3	67.19	102.2	179.5
MEAN	12.6	17.9	21.3	23.6	26.6	26.3	36.9	52.8	5.04	2.17	3.30	5.98
MAX	15	26	24	32	39	37	47	112	11	8.5	6.7	18
MIN	9.5	13	19	19	19	19	21	12	2.2	0.70	1.6	2.0
AC-FT	772	1,070	1,310	1,450	1,530	1,620	2,200	3,250	300	133	203	356

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2004, BY WATER YEAR (WY)

MEAN	25.3	31.7	32.6	31.6	36.5	47.1	106	236	129	27.9	23.0	21.7
MAX	74.9	71.9	56.8	48.4	60.3	113	440	1,063	708	169	97.9	67.5
(WY)	(1958)	(1958)	(1987)	(1995)	(1987)	(1995)	(1994)	(1994)	(1979)	(1995)	(1957)	(1993)
MIN	4.85	9.68	6.32	6.15	9.11	19.8	8.32	4.10	2.69	1.84	2.03	3.71
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2002)	(1972)	(2002)	(2002)	(2003)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1957 - 2004	
ANNUAL TOTAL	8,247.84		7,151.39			
ANNUAL MEAN	22.6		19.5		61.8	
HIGHEST ANNUAL MEAN					193	1994
LOWEST ANNUAL MEAN					11.1	2002
HIGHEST DAILY MEAN	134	May 26	112	May 12	1,940	May 20, 1994
LOWEST DAILY MEAN	0.01	Aug 1	0.70	Jul 18	0.01	Aug 1, 2003
ANNUAL SEVEN-DAY MINIMUM	0.01	Jul 31	0.91	Jul 14	0.01	Jul 31, 2003
MAXIMUM PEAK FLOW			194	Jul 25	a2,380	Aug 24, 1957
MAXIMUM PEAK STAGE			7.04	Jul 25	8.93	May 22, 1991
INSTANTANEOUS LOW FLOW			0.15	Jul 15	0.00	Jul 30, 2003
ANNUAL RUNOFF (AC-FT)	16,360		14,180		44,790	
10 PERCENT EXCEEDS	60		37		115	
50 PERCENT EXCEEDS	15		19		30	
90 PERCENT EXCEEDS	2.4		2.7		7.9	

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

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

LOCATION.--Lat 36°19'12", long 105°45'14", in NW ¼ NE ¼ 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, Colorado.

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" 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	202	321	336	383	431	1,160	775	961	463	278	176
2	186	199	377	330	366	430	1,030	833	824	468	272	174
3	201	202	398	335	377	444	894	768	692	560	286	172
4	214	213	371	349	384	458	827	685	727	494	270	175
5	208	215	380	337	382	457	850	715	925	413	252	183
6	206	218	369	337	365	462	815	862	1,100	403	248	181
7	207	222	384	362	371	469	699	924	1,190	392	238	176
8	206	227	389	373	376	475	623	1,070	1,020	375	239	176
9	206	236	429	356	365	502	579	1,250	856	349	220	176
10	203	231	395	349	362	529	564	1,330	856	326	208	173
11	220	226	336	361	361	599	522	1,280	824	310	200	172
12	216	226	308	371	367	662	484	1,220	762	306	197	172
13	208	250	307	380	343	767	461	1,190	701	298	196	172
14	203	241	295	380	303	782	443	1,210	729	305	193	168
15	205	238	342	385	363	825	408	1,100	696	306	188	169
16	203	229	339	387	369	805	383	966	635	312	184	169
17	198	230	300	394	364	834	426	927	737	303	184	168
18	198	228	337	382	368	837	452	894	775	301	185	168
19	197	226	351	384	375	815	520	1,110	699	293	191	177
20	197	303	338	398	380	816	600	1,430	573	283	204	191
21	197	387	340	409	381	857	584	1,510	591	289	198	200
22	196	388	352	376	383	941	555	1,330	584	300	198	191
23	197	380	356	375	387	1,030	567	1,180	545	311	189	189
24	197	335	333	388	388	1,160	560	1,140	541	328	187	190
25	197	317	344	387	389	1,260	553	1,010	553	308	185	196
26	197	298	363	375	402	1,360	629	870	500	294	181	228
27	198	337	366	358	406	1,470	613	902	468	310	177	205
28	202	315	311	353	415	1,530	525	977	476	328	173	192
29	201	326	288	356	422	1,540	515	914	471	303	173	202
30	202	321	332	370	---	1,410	597	924	487	281	173	199
31	203	---	331	374	---	1,260	---	981	---	296	175	---
TOTAL	6,251	7,966	10,782	11,407	10,897	26,217	18,438	32,277	21,498	10,608	6,442	5,480
MEAN	202	266	348	368	376	846	615	1,041	717	342	208	183
MAX	220	388	429	409	422	1,540	1,160	1,510	1,190	560	286	228
MIN	182	199	288	330	303	430	383	685	468	281	173	168
AC-FT	12,400	15,800	21,390	22,630	21,610	52,000	36,570	64,020	42,640	21,040	12,780	10,870

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2004, BY WATER YEAR (WY)

MEAN	416	522	492	480	546	667	842	1,725	1,734	717	413	380
MAX	1,675	1,532	1,018	764	865	1,195	3,020	6,055	6,007	3,445	1,537	2,086
(WY)	(1942)	(1942)	(1942)	(1986)	(1987)	(1987)	(1942)	(1987)	(1941)	(1995)	(1929)	(1927)
MIN	171	224	243	263	290	259	250	205	181	177	163	161
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1957)	(1981)	(2002)	(2002)	(2002)	(2002)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1926 - 2004	
ANNUAL TOTAL	113,007		168,263			
ANNUAL MEAN	310		460		745	
HIGHEST ANNUAL MEAN					1,840	1942
LOWEST ANNUAL MEAN					271	1964
HIGHEST DAILY MEAN	685	May 26	1,540	Mar 29	9,730	Jun 7, 1948
LOWEST DAILY MEAN	182	Oct 1	168	Sep 14	158	Aug 15, 2002
ANNUAL SEVEN-DAY MINIMUM	187	Sep 26	169	Sep 12	159	Sep 19, 1956
MAXIMUM PEAK FLOW			1,580	Mar 29	9,730	Jun 7, 1948
MAXIMUM PEAK STAGE			5.20	Mar 29	9.23	Jun 22, 1949
INSTANTANEOUS LOW FLOW			164	Sep 15	155	Sep 21, 1956
ANNUAL RUNOFF (AC-FT)	224,100		333,700		539,400	
10 PERCENT EXCEEDS	430		924		1,440	
50 PERCENT EXCEEDS	298		365		470	
90 PERCENT EXCEEDS	194		191		238	

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 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, NTU (00076)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
FEB													
24...	0910	388	2.5	606	10.4	105	8.3	249	6.0	6.0	89	26.5	5.50
APR													
28...	1140	515	10	607	9.6	117	8.3	203	22.0	14.0	71	21.5	4.23
JUL													
09...	1200	349	8.9	615	9.6	131	8.7	231	33.0	19.6	82	24.7	4.99
22...	1230	301	--	612	9.2	132	8.4	268	32.0	22.0	89	26.7	5.47

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
FEB													
24...	2.78	.7	15.8	92	111	--	5.46	.5	28.7	27.4	168	170	.14
APR													
28...	2.40	.7	13.2	73	87	--	4.51	.4	22.6	22.1	134	144	.18
JUL													
09...	2.99	.8	17.2	91	E104	E3	5.20	.5	24.5	26.3	161	--	<.20
22...	3.12	.9	19.3	86	102	--	5.66	.7	27.1	30.9	169	176	.15

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)
FEB													
24...	.38	<.04	.05	.25	<.008	<.02	.012	.034	10	<.20	E2	29	<.06
APR													
28...	.41	<.04	--	.08	<.008	<.02	.019	.099	17	<.20	E1	27	<.06
JUL													
09...	.40	.02	.02	.03	<.010	.02	.02	.05	10	<.20	2	26	<.06
22...	.31	<.04	--	.06	E.004	.02	.024	.065	7	<.20	E2	28	<.06

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recoverable, ug/L (71900)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd ug/L (01147)
FEB													
24...	28	E.02	E.6	.123	.7	14	<.08	8.8	<.02	6.1	1.45	<3	<3
APR													
28...	24	<.04	<.8	.103	1.1	19	.08	2.9	<.02	4.4	.77	<3	<3
JUL													
09...	32	<.04	E.7	.126	1.1	8	E.05	1.3	<.02	7.0	.64	<3	<3
22...	38	E.03	.8	.142	1.0	<6	<.08	2.7	<.02	8.8	.81	<3	<3

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)
FEB					
24...	<.2	1.2	1.80	96	12
APR					
28...	<.2	1.1	1.26	93	33
JUL					
09...	<.2	1.3	1.32	--	--
22...	<.2	1.0	1.98	95	22

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

08277470 RIO PUEBLO NEAR PENASCO, NM

LOCATION.--Lat 36°10'07", long 105°36'10", in SE ¼ NE ¼ sec.1, T.22 N., R.12 E., Taos County, Hydrologic Unit 13020101, on left bank, downstream side of bridge on private road, 0.5 mi upstream from junction of State Highways 518 and 75, 1.0 mi downstream from Osha Canyon, and 6.0 mi east of Penasco.

DRAINAGE AREA.--101 mi^2.

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

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

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	5.8	e5.7	e5.8	e4.2	e12	28	158	53	17	11	10
2	5.7	5.9	e4.9	e6.0	e5.6	e12	39	143	51	15	9.8	10
3	7.7	5.7	e4.7	e4.4	e5.9	e14	36	159	52	15	10	9.6
4	11	5.5	e5.3	e3.6	e5.9	e11	25	200	53	14	9.3	11
5	8.9	e5.3	e5.1	e3.6	e4.6	e10	35	232	51	14	10	13
6	e7.8	e5.7	e5.6	e5.0	e5.1	e13	43	236	49	13	13	11
7	e7.4	5.7	e6.1	e5.8	e5.7	e14	47	253	46	11	10	11
8	e7.2	5.8	e5.2	e4.7	e5.0	e15	73	278	44	10	9.8	10
9	e7.2	5.9	e3.8	e4.9	e5.2	16	75	275	40	6.6	9.3	10
10	e7.2	6.1	e4.1	e4.8	e5.0	17	69	273	36	6.5	8.4	9.6
11	e10	6.3	e6.7	e5.1	e5.2	16	56	259	33	6.2	8.8	9.4
12	e8.4	6.4	e5.2	e4.4	e4.8	18	49	257	31	7.0	9.0	8.4
13	e7.5	6.6	e5.8	e4.2	e5.0	17	48	229	29	7.8	13	8.9
14	e7.0	6.9	e7.1	e5.0	e5.7	18	64	192	27	6.4	13	9.0
15	e6.7	6.5	e5.0	e5.0	e5.8	18	94	168	26	6.4	21	8.6
16	6.5	e5.8	e4.8	e5.0	e6.2	17	126	161	24	6.7	13	8.6
17	6.4	e5.5	e6.0	e4.2	e7.5	17	157	157	21	7.1	11	8.6
18	6.4	e5.0	e6.3	e3.9	e10	18	185	150	20	7.3	10	8.6
19	6.3	e5.3	e6.8	e5.1	e8.8	21	173	151	19	7.1	11	14
20	6.3	e5.1	e7.0	e5.1	e8.4	24	156	156	17	10	12	16
21	6.3	e5.5	e7.0	e3.8	e8.2	28	144	152	16	13	13	13
22	6.2	e3.6	e5.2	e4.0	e8.0	29	139	144	16	10	13	12
23	6.2	e3.4	e4.8	e4.8	e9.7	28	137	125	16	21	10	11
24	6.1	e4.6	e5.0	e4.9	e9.0	33	117	111	16	24	9.9	11
25	6.1	e5.7	e6.1	e4.4	e9.9	36	107	102	16	24	9.7	11
26	e5.5	e5.7	e5.5	e4.1	e11	36	100	89	15	22	9.0	12
27	e5.4	e4.0	e3.3	e4.3	e12	38	116	83	15	20	8.7	12
28	6.3	e4.7	e3.0	e4.9	e9.8	30	151	77	15	22	9.5	13
29	6.0	e5.3	e4.2	e4.4	e11	26	171	77	21	19	10	14
30	5.7	e5.8	e5.0	e4.8	---	25	182	71	26	15	9.5	14
31	5.7	---	e5.4	e5.1	---	26	---	59	---	12	11	---
TOTAL	213.0	165.1	165.7	145.1	208.2	653	2,942	5,177	894	396.1	335.7	328.3
MEAN	6.87	5.50	5.35	4.68	7.18	21.1	98.1	167	29.8	12.8	10.8	10.9
MAX	11	6.9	7.1	6.0	12	38	185	278	53	24	21	16
MIN	5.4	3.4	3.0	3.6	4.2	10	25	59	15	6.2	8.4	8.4
AC-FT	422	327	329	288	413	1,300	5,840	10,270	1,770	786	666	651

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2004, BY WATER YEAR (WY)

MEAN	12.7	13.3	10.5	9.21	10.5	22.5	93.3	244	118	41.6	21.3	15.3
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	6.87	5.50	3.50	4.68	6.27	8.48	21.3	2.74	2.20	4.86	2.90	4.79
(WY)	(2004)	(2004)	(2003)	(2004)	(2002)	(2002)	(2002)	(2002)	(2002)	(2003)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1992 - 2004	
ANNUAL TOTAL	9,316.7		11,623.2			
ANNUAL MEAN	25.5		31.8		49.9	
HIGHEST ANNUAL MEAN					124	1994
LOWEST ANNUAL MEAN					7.29	2002
HIGHEST DAILY MEAN	180	Apr 30	278	May 8	1,720	May 20, 1994
LOWEST DAILY MEAN	2.3	Jul 27	3.0	Dec 28	0.98	Aug 13, 2002
ANNUAL SEVEN-DAY MINIMUM	3.1	Jul 23	4.3	Jan 21	1.1	Aug 10, 2002
MAXIMUM PEAK FLOW			301	May 8	2,200	May 19, 1994
MAXIMUM PEAK STAGE			4.28	May 8	6.00	May 19, 1994
INSTANTANEOUS LOW FLOW					0.91	Aug 13, 2002
ANNUAL RUNOFF (AC-FT)	18,480		23,050		36,160	
10 PERCENT EXCEEDS	99		112		113	
50 PERCENT EXCEEDS	6.9		10		14	
90 PERCENT EXCEEDS	4.8		4.9		5.8	

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 "near Llano, N. Mex."

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

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	9.1	e6.8	e5.3	e4.1	e4.5	23	54	79	26	14	9.7
2	13	9.2	e6.3	e5.7	e5.1	e4.5	27	58	78	22	14	9.3
3	17	9.0	e6.1	e4.5	e5.3	e5.1	27	70	77	21	14	9.2
4	19	8.3	e6.9	e3.6	e5.3	e4.8	23	86	78	20	14	10
5	15	8.2	e7.1	e3.6	e4.2	e4.4	24	101	78	19	16	11
6	13	8.6	e7.8	e5.1	e4.7	e5.8	25	121	77	18	16	9.3
7	13	8.1	e8.0	e5.9	e4.8	e6.8	25	131	76	17	13	9.0
8	15	8.1	e6.4	e4.8	e4.3	e7.1	33	134	74	17	13	8.8
9	13	7.9	e4.8	e5.0	e4.5	e7.4	32	141	71	16	12	8.7
10	13	8.0	e5.3	e4.8	e4.4	e8.0	28	143	67	16	12	8.6
11	18	8.2	e8.0	e5.2	e4.3	e8.0	25	146	62	15	12	8.4
12	13	8.0	e6.0	e4.8	e3.9	e8.5	22	154	57	16	12	8.4
13	12	8.6	e6.3	e4.7	e4.1	e8.6	22	144	54	15	12	8.3
14	12	8.4	e6.8	e5.7	e4.2	9.5	27	130	49	14	12	8.2
15	12	7.7	e5.8	e5.7	e4.3	9.7	35	126	45	15	12	8.0
16	11	7.9	e5.3	e5.7	e4.3	9.9	42	129	43	15	12	7.8
17	11	7.7	e5.8	e4.8	e4.3	10	48	131	40	13	11	7.8
18	11	e6.5	e6.1	e4.5	e4.5	12	58	133	38	15	11	7.9
19	11	e7.0	e6.2	e5.7	e4.2	14	57	139	36	14	11	24
20	10	e6.8	e6.3	e5.7	e3.9	17	53	150	34	12	12	22
21	10	e7.0	e6.3	e4.1	e3.8	20	50	155	32	12	11	16
22	10	e5.5	e5.1	e4.2	e3.7	20	47	151	31	15	12	15
23	10	e4.6	e4.4	e4.8	e3.9	20	44	140	30	23	11	15
24	9.9	e6.0	e5.0	e6.2	e3.7	24	40	132	28	19	11	14
25	9.7	e6.9	e6.1	e4.0	e3.8	26	37	120	27	24	10	14
26	9.2	e6.9	e5.8	e3.8	e3.9	28	36	106	26	22	10	15
27	9.7	e5.1	e3.3	e4.0	e4.2	28	42	100	24	18	9.8	15
28	9.9	e6.0	e3.1	e4.8	e3.9	23	51	96	25	18	9.7	15
29	9.7	e6.9	e4.1	e4.8	e4.3	21	55	96	30	17	9.5	15
30	9.2	e7.5	e4.6	e5.1	---	20	59	90	39	15	9.7	15
31	9.0	---	e4.8	e5.9	---	21	---	83	---	15	9.9	---
TOTAL	370.3	223.7	180.7	152.5	123.9	416.6	1,117	3,690	1,505	534	368.6	353.4
MEAN	11.9	7.46	5.83	4.92	4.27	13.4	37.2	119	50.2	17.2	11.9	11.8
MAX	19	9.2	8.0	6.2	5.3	28	59	155	79	26	16	24
MIN	9.0	4.6	3.1	3.6	3.7	4.4	22	54	24	12	9.5	7.8
AC-FT	734	444	358	302	246	826	2,220	7,320	2,990	1,060	731	701

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004, BY WATER YEAR (WY)

MEAN	13.5	10.8	8.27	7.09	6.80	10.8	33.9	104	99.3	32.0	32.8	21.9
MAX	17.9	17.1	13.6	9.88	9.93	17.6	75.3	199	211	62.1	129	66.5
(WY)	(1996)	(1992)	(1992)	(2002)	(2002)	(1997)	(1992)	(1994)	(1995)	(1957)	(1957)	(1957)
MIN	4.95	5.13	4.18	4.10	3.93	6.46	18.6	14.7	8.44	8.13	6.00	4.50
(WY)	(1957)	(1957)	(1957)	(1954)	(1957)	(1957)	(1956)	(2002)	(2002)	(1956)	(2002)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1953 - 2004	
ANNUAL TOTAL	9,825.8		9,035.7			
ANNUAL MEAN	26.9		24.7		30.9	
HIGHEST ANNUAL MEAN					50.5	1957
LOWEST ANNUAL MEAN					10.3	2002
HIGHEST DAILY MEAN	191	May 25	155	May 21	499	Jun 2, 1994
LOWEST DAILY MEAN	3.1	Dec 28	3.1	Dec 28	3.0	Jan 31, 1957
ANNUAL SEVEN-DAY MINIMUM	4.5	Dec 23	3.8	Feb 20	3.1	Jan 30, 1957
MAXIMUM PEAK FLOW			175	May 11	838	Jun 18, 1995
MAXIMUM PEAK STAGE			4.69	May 11	6.21	Jun 18, 1995
INSTANTANEOUS LOW FLOW					2.4	Mar 2, 1996
ANNUAL RUNOFF (AC-FT)	19,490		17,920		22,400	
10 PERCENT EXCEEDS	67		72		79	
50 PERCENT EXCEEDS	11		11		13	
90 PERCENT EXCEEDS	6.2		4.5		6.0	

e Estimated

08279000 EMBUDO CREEK AT DIXON, NM

LOCATION.--Lat 36°12'39", long 105°54'47", in NE ¼ SE ¼ 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, and 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.--Records good except for those estimated, which are poor. Diversions upstream from station for irrigation of about 6,600 acres, a small part of which are downstream from gage.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	14	28	27	29	23	33	191	122	31	18	9.0
2	9.4	13	27	30	18	24	42	157	111	23	14	8.3
3	14	16	24	31	25	25	84	167	97	19	13	7.9
4	18	20	23	25	26	27	53	203	100	19	10	9.1
5	e17	21	25	17	26	25	51	270	97	17	15	16
6	e16	19	26	17	20	21	62	358	95	15	29	14
7	e16	20	28	25	23	26	70	409	93	14	24	12
8	23	19	30	31	25	31	110	459	83	12	20	9.9
9	28	19	25	25	22	35	126	438	77	11	18	9.4
10	30	20	17	26	24	39	129	465	72	11	16	8.9
11	42	21	19	25	23	39	117	438	62	e9.0	17	7.1
12	29	23	33	27	e20	37	102	469	56	e8.0	20	6.5
13	26	27	24	25	22	38	93	429	49	11	24	6.5
14	23	29	e26	24	23	38	98	360	43	e9.0	22	6.2
15	e18	31	32	29	24	38	116	319	37	e8.0	25	5.7
16	19	28	21	29	24	36	158	304	35	e7.5	23	6.2
17	16	30	19	29	24	34	194	300	31	7.3	19	5.8
18	14	29	25	24	29	34	228	292	25	8.4	17	5.7
19	13	26	28	22	34	38	220	292	23	9.4	15	9.1
20	13	27	30	29	28	43	201	300	22	9.0	20	35
21	12	26	31	29	25	44	183	308	e23	8.4	26	21
22	12	27	31	19	24	45	172	305	22	8.2	25	20
23	12	20	23	20	24	42	175	275	23	11	20	18
24	12	15	22	23	24	47	159	245	20	30	17	16
25	14	21	23	32	23	61	143	231	20	37	16	14
26	18	25	30	20	24	59	123	210	18	35	12	15
27	16	25	27	19	25	57	120	181	18	35	7.8	15
28	14	18	16	20	26	46	147	164	19	35	7.1	16
29	13	21	14	24	21	36	175	160	24	33	7.4	18
30	13	25	20	24	---	33	203	154	28	24	7.9	24
31	13	---	23	26	---	34	---	138	---	22	8.3	---
TOTAL	543.2	675	770	773	705	1,155	3,887	8,991	1,545	537.2	533.5	375.3
MEAN	17.5	22.5	24.8	24.9	24.3	37.3	130	290	51.5	17.3	17.2	12.5
MAX	42	31	33	32	34	61	228	469	122	37	29	35
MIN	9.4	13	14	17	18	21	33	138	18	7.3	7.1	5.7
AC-FT	1,080	1,340	1,530	1,530	1,400	2,290	7,710	17,830	3,060	1,070	1,060	744

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2004, BY WATER YEAR (WY)

MEAN	37.0	35.9	31.4	28.9	30.4	46.5	140	308	194	49.0	48.5	40.0
MAX	116	95.5	54.3	42.2	72.7	129	505	1,231	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	3.50	1.99	0.86	2.18	2.79
(WY)	(1951)	(1951)	(1951)	(1951)	(1951)	(1951)	(1972)	(2002)	(2002)	(1951)	(2002)	(1950)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1924 - 2004	
ANNUAL TOTAL	18,125.8		20,490.2			
ANNUAL MEAN	49.7		56.0		82.7	
HIGHEST ANNUAL MEAN					235	1941
LOWEST ANNUAL MEAN					12.8	1951
HIGHEST DAILY MEAN	347	May 26	469	May 12	2,590	May 14, 1941
LOWEST DAILY MEAN	4.3	Aug 13	5.7	Sep 15	0.20	Jun 27, 1950
ANNUAL SEVEN-DAY MINIMUM	4.5	Aug 7	6.1	Sep 12	0.60	Jul 16, 1951
MAXIMUM PEAK FLOW			515	May 12	a4,200	Aug 29, 1977
MAXIMUM PEAK STAGE			3.63	May 12	b7.10	Aug 29, 1977
INSTANTANEOUS LOW FLOW			5.0	Sep 17	0.06	Jun 26, 1950
ANNUAL RUNOFF (AC-FT)	35,950		40,640		59,950	
10 PERCENT EXCEEDS	142		161		207	
50 PERCENT EXCEEDS	22		25		34	
90 PERCENT EXCEEDS	6.9		11		12	

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

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, Colorado.

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: 1900-02. 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. Mar. 1889 to Dec. 1903, nonrecording gage 1,300 ft upstream at different datum. Sept. 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	192	219	345	378	417	458	1,160	898	1,050	509	317	184
2	198	213	403	376	392	461	1,060	947	923	492	295	182
3	219	213	441	380	397	470	975	904	783	577	312	181
4	241	222	412	387	417	496	863	873	791	545	299	187
5	235	230	420	371	408	493	876	917	939	455	283	202
6	231	230	410	371	388	490	880	1,130	1,130	433	290	194
7	235	236	419	394	392	506	785	1,220	1,210	423	275	187
8	238	242	434	420	398	513	743	1,390	1,110	407	267	184
9	235	250	476	401	387	544	711	1,530	905	382	251	184
10	230	251	441	390	380	569	703	1,660	903	352	238	182
11	253	245	374	399	380	630	649	1,610	861	334	228	177
12	243	247	355	411	389	682	598	1,560	809	327	229	177
13	232	280	361	420	369	768	552	1,500	739	324	226	176
14	222	274	327	421	320	809	535	1,460	748	324	224	173
15	215	274	382	428	370	834	526	1,350	740	328	218	172
16	217	259	389	433	384	821	523	1,210	667	327	214	174
17	208	262	331	437	380	841	587	1,160	725	325	209	172
18	206	258	366	420	385	851	650	1,120	784	332	208	170
19	205	252	396	417	398	835	698	1,260	737	321	210	184
20	204	302	388	436	403	834	767	1,590	618	306	231	225
21	201	408	382	450	402	865	748	1,720	588	305	230	218
22	200	420	397	420	402	940	710	1,590	608	317	232	208
23	206	411	398	389	408	1,020	718	1,390	577	335	217	202
24	208	372	377	424	409	1,130	708	1,330	561	375	211	202
25	210	342	380	429	413	1,240	667	1,210	578	360	206	202
26	216	323	405	405	423	1,330	727	1,050	541	354	200	238
27	219	375	413	389	430	1,440	733	1,020	493	356	190	221
28	224	344	361	379	444	1,500	681	1,090	502	387	182	206
29	227	359	311	381	445	1,510	678	1,030	505	362	180	210
30	224	358	364	396	---	1,390	749	1,030	529	324	182	220
31	222	---	374	406	---	1,260	---	1,070	---	330	184	---
TOTAL	6,816	8,671	12,032	12,558	11,530	26,530	21,960	38,819	22,654	11,628	7,238	5,794
MEAN	220	289	388	405	398	856	732	1,252	755	375	233	193
MAX	253	420	476	450	445	1,510	1,160	1,720	1,210	577	317	238
MIN	192	213	311	371	320	458	523	873	493	305	180	170
AC-FT	13,520	17,200	23,870	24,910	22,870	52,620	43,560	77,000	44,930	23,060	14,360	11,490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2004, BY WATER YEAR (WY)

MEAN	425	547	518	508	575	710	977	1,993	1,907	757	448	383
MAX	1,795	1,611	1,052	799	888	1,290	3,544	7,228	6,837	3,540	1,699	1,178
(WY)	(1942)	(1942)	(1942)	(1942)	(1987)	(1989)	(1942)	(1941)	(1941)	(1995)	(1957)	(1999)
MIN	182	243	269	300	323	286	274	189	180	163	151	171
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1957)	(1981)	(2002)	(2002)	(2002)	(2002)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1931 - 2004	
ANNUAL TOTAL	129,810		186,230			
ANNUAL MEAN	356		509		a813	
HIGHEST ANNUAL MEAN					2,077	1942
LOWEST ANNUAL MEAN					301	2002
HIGHEST DAILY MEAN	981	May 26	1,720	May 21	11,700	May 16, 1941
LOWEST DAILY MEAN	175	Aug 18	170	Sep 18	145	Aug 15, 2002
ANNUAL SEVEN-DAY MINIMUM	184	Aug 16	173	Sep 12	147	Aug 13, 2002
MAXIMUM PEAK FLOW			1,750	May 21	b16,200	Jun 19, 1903
MAXIMUM PEAK STAGE			5.22	May 21	15.90	Jun 19, 1903
INSTANTANEOUS LOW FLOW			162	Sep 18	130	Jun 30, 1902
ANNUAL RUNOFF (AC-FT)	257,500		369,400		588,700	
10 PERCENT EXCEEDS	533		1,050		1,580	
50 PERCENT EXCEEDS	350		393		506	
90 PERCENT EXCEEDS	204		206		255	

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.

08284100 RIO CHAMA NEAR LA PUENTE, NM

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

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

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder with satellite telemetry. Concrete control since Nov. 9, 1965. Elevation of gage is 7,083 ft above National Geodetic Vertical Datum of 1929, from river-profile map.

REMARKS.--Water-discharge records good except for those estimated, which are poor. Diversions for irrigation of about 10,300 acres upstream from station (1962 determination).

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of about 9,000 ft^3/s occurred Apr. 16, 1937, based on flow of Rio Chama at Los Ojos (Park View) with allowance for tributary inflow. A peak on May 21 or 22, 1926, may have exceeded 10,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	41	e88	e66	e86	e78	799	940	279	68	35	22
2	50	47	e82	e74	e70	e83	915	1,030	270	51	32	23
3	104	68	e80	e80	e78	e82	947	1,460	280	43	36	24
4	116	77	e80	e68	e96	e74	802	1,890	277	39	33	31
5	98	57	e68	e58	e72	e64	709	2,020	291	34	31	52
6	74	53	e80	e70	e80	e64	677	1,960	286	30	30	52
7	63	53	e86	e82	e91	72	650	1,950	279	28	27	38
8	62	57	e70	e88	e86	88	787	1,890	252	25	25	34
9	60	62	e64	e84	e80	112	868	1,790	228	22	23	32
10	54	57	e61	e93	e82	141	752	1,720	216	22	24	29
11	52	59	e66	e100	e80	155	632	1,690	195	22	26	28
12	48	66	e62	e108	e94	175	588	1,510	174	21	25	25
13	50	89	e60	e97	e80	201	546	1,200	159	23	23	23
14	48	80	e64	e102	e66	232	581	1,020	142	22	22	22
15	47	82	e67	e105	e76	240	606	956	123	20	26	19
16	46	73	e60	e92	e86	244	713	962	112	19	29	19
17	46	75	e54	e83	e91	242	845	925	104	22	28	17
18	41	60	e50	e92	e86	274	905	851	89	22	27	15
19	38	55	e55	e82	e87	317	862	823	82	26	26	19
20	41	62	e60	e74	e85	391	857	769	70	24	29	237
21	42	68	e62	e66	e84	475	877	737	63	26	33	113
22	41	76	e64	e54	e84	575	757	683	58	27	39	86
23	43	e51	e64	e58	e86	649	655	601	57	29	32	62
24	42	e54	e59	e68	e83	780	593	512	54	37	30	52
25	39	e60	e59	e76	e82	994	572	456	53	38	29	48
26	39	e56	e61	e87	e86	1,110	567	408	58	42	27	47
27	38	e56	e54	e88	e88	1,040	812	363	61	56	27	50
28	40	e68	e49	e66	e83	722	1,180	348	54	54	26	45
29	42	e80	e56	e68	e80	625	1,310	362	62	65	24	55
30	42	e88	e64	e80	---	617	1,220	339	78	56	19	76
31	40	---	e70	e98	---	676	---	297	---	42	21	---
TOTAL	1,629	1,930	2,019	2,507	2,408	11,592	23,584	32,462	4,506	1,055	864	1,395
MEAN	52.5	64.3	65.1	80.9	83.0	374	786	1,047	150	34.0	27.9	46.5
MAX	116	89	88	108	96	1,110	1,310	2,020	291	68	39	237
MIN	38	41	49	54	66	64	546	297	53	19	19	15
AC-FT	3,230	3,830	4,000	4,970	4,780	22,990	46,780	64,390	8,940	2,090	1,710	2,770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2004, BY WATER YEAR (WY)

MEAN	88.1	82.7	60.0	55.8	68.8	188	818	1,761	714	125	94.0	77.1
MAX	562	422	131	103	174	523	1,846	4,195	3,200	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	190	25.0	5.57	4.92	4.16	7.96
(WY)	(1957)	(1957)	(1964)	(1963)	(1964)	(1964)	(2002)	(2002)	(2002)	(2002)	(2002)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1956 - 2004	
ANNUAL TOTAL	85,492		85,951			
ANNUAL MEAN	234		235		346	
HIGHEST ANNUAL MEAN					723	1985
LOWEST ANNUAL MEAN					46.2	2002
HIGHEST DAILY MEAN	1,930	May 17	2,020	May 5	7,720	May 10, 1985
LOWEST DAILY MEAN	17	Jul 18	15	Sep 18	2.4	Aug 25, 2002
ANNUAL SEVEN-DAY MINIMUM	19	Jul 14	19	Sep 13	2.6	Aug 22, 2002
MAXIMUM PEAK FLOW			2,440	May 6	a11,200	May 28, 1979
MAXIMUM PEAK STAGE			4.89	May 6	6.46	May 14, 1984
INSTANTANEOUS LOW FLOW			14	Sep 17	2.4	Aug 25, 2002
ANNUAL RUNOFF (AC-FT)	169,600		170,500		250,400	
10 PERCENT EXCEEDS	809		791		990	
50 PERCENT EXCEEDS	60		70		79	
90 PERCENT EXCEEDS	28		26		29	

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

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 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
JUL													
08...	1145	26	591	8.6	119	8.6	298	26.0	18.5	150	47.0	8.67	2.14
29...	1130	68	591	9.5	128	9.0	270	--	17.0	--	--	--	--
AUG													
17...	1145	30	593	9.4	130	8.6	298	24.0	18.5	130	39.4	7.89	1.96

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
JUL													
08...	.4	12.0	134	E159	E2	3.42	<.2	21.5	33.0	208	<.20	.20	<.01
29...	--	--	--	--	--	--	--	--	24.0	--	--	--	--
AUG													
17...	.4	10.4	--	--	--	2.73	<.2	10.7	22.9	174	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Boron, water, fltrd, ug/L (01020)	Iron, water, fltrd, ug/L (01046)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
JUL										
08...	.02	<.02	<.010	.02	<.02	.03	21	39	84	5
29...	--	--	--	--	--	--	--	--	--	--
AUG										
17...	--	--	--	--	--	--	28	37	73	6

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

08284160 AZOTEA TUNNEL AT OUTLET NEAR CHAMA, NM

LOCATION.--Lat 36°51'12", long 106°40'18", Rio Arriba County, Hydrologic Unit 13020102, in Tierra Amarilla Grant, on left bank at south portal, 0.2 mi upstream from Azotea Creek, and 6.2 mi southwest of Chama.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder and Parshall flume. Datum of gage is 7,519.87 ft above National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation).

REMARKS.--Records represent regulated diversions from Rio Blanco, Little Navajo River, and Navajo River in San Juan River Basin.

COOPERATION.--Records provided by Bureau of Reclamation.

AVERAGE DISCHARGE.--34 years, 124 ft^3/s, 89,840 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, 751 ft^3/s, May 8; no flow most days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	349	197	413	110	5.0	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	344	204	450	89	4.0	0.00
3	12	0.00	0.00	0.00	0.00	0.00	330	264	551	75	20	0.00
4	47	0.00	0.00	0.00	0.00	0.00	289	416	620	61	6.0	0.00
5	23	0.00	0.00	0.00	0.00	0.00	270	527	655	49	4.0	0.00
6	15	0.00	0.00	0.00	0.00	0.00	256	601	629	42	10	0.00
7	10	0.00	0.00	0.00	0.00	0.00	242	711	690	44	23	0.00
8	6.6	0.00	0.00	0.00	0.00	0.00	298	751	677	34	11	0.00
9	4.0	0.00	0.00	0.00	0.00	34	284	745	602	31	6.0	0.00
10	3.0	0.00	0.00	0.00	0.00	60	245	739	532	18	4.5	0.00
11	1.5	0.00	0.00	0.00	0.00	67	211	709	457	16	3.5	0.00
12	1.5	0.00	0.00	0.00	0.00	105	185	606	367	15	3.0	0.00
13	1.0	0.00	0.00	0.00	0.00	119	179	433	329	15	2.5	0.00
14	0.00	0.00	0.00	0.00	0.00	114	204	365	365	15	2.0	0.00
15	0.00	0.00	0.00	0.00	0.00	114	211	379	372	15	4.5	0.00
16	0.00	0.00	0.00	0.00	0.00	118	251	457	294	19	2.5	0.00
17	0.00	0.00	0.00	0.00	0.00	118	288	511	273	35	0.50	0.00
18	0.00	0.00	0.00	0.00	0.00	161	271	525	231	19	0.50	0.00
19	0.00	0.00	0.00	0.00	0.00	216	250	606	231	19	1.0	0.00
20	0.00	0.00	0.00	0.00	0.00	288	252	625	209	22	0.50	190
21	0.00	0.00	0.00	0.00	0.00	369	250	659	191	22	1.5	241
22	0.00	0.00	0.00	0.00	0.00	421	222	600	164	16	2.0	151
23	0.00	0.00	0.00	0.00	0.00	431	205	512	139	38	1.5	96
24	0.00	0.00	0.00	0.00	0.00	485	182	416	116	57	0.00	62
25	0.00	0.00	0.00	0.00	0.00	531	180	351	104	36	0.00	45
26	0.00	0.00	0.00	0.00	0.00	520	182	297	115	30	0.00	37
27	0.00	0.00	0.00	0.00	0.00	450	259	366	105	28	0.00	31
28	0.00	0.00	0.00	0.00	0.00	310	371	421	104	29	0.00	24
29	0.00	0.00	0.00	0.00	0.00	248	381	493	116	48	0.00	45
30	0.00	0.00	0.00	0.00	---	259	335	376	179	19	0.00	71
31	0.00	---	0.00	0.00	---	263	---	344	---	12	0.00	---
TOTAL	124.60	0.00	0.00	0.00	0.00	5,801.00	7,776	15,206	10,280	1,078	119.00	993.00
MEAN	4.02	0.00	0.00	0.00	0.00	187	259	491	343	34.8	3.84	33.1
MAX	47	0.00	0.00	0.00	0.00	531	381	751	690	110	23	241
MIN	0.00	0.00	0.00	0.00	0.00	0.00	179	197	104	12	0.00	0.00
AC-FT	247	0.00	0.00	0.00	0.00	11,510	15,420	30,160	20,390	2,140	236	1,970

CAL YR 2003 TOTAL 31,615.20 MEAN 86.6 MAX 869 MIN 0.00 AC-FT 62,710
WTR YR 2004 TOTAL 41,377.60 MEAN 113 MAX 751 MIN 0.00 AC-FT 82,070

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. 34 years (water years 1971-2004), 135 ft^3/s, 97,810 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, 732 ft^3/s, May 10; no flow most days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	339	193	401	128	10	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	351	201	442	117	6.0	0.00
3	0.71	0.00	0.00	0.00	0.00	0.00	339	274	538	97	16	0.00
4	43	0.25	0.00	0.00	0.00	0.00	320	382	600	78	13	0.00
5	31	0.00	0.00	0.00	0.00	0.00	305	506	617	73	7.1	0.00
6	14	0.00	0.00	0.00	0.00	0.00	292	564	613	46	6.6	0.00
7	9.1	0.00	0.00	0.00	0.00	0.00	273	688	688	44	19	0.00
8	6.6	0.00	0.00	0.00	0.00	23	322	722	664	38	13	0.00
9	2.5	0.00	0.00	0.00	0.00	69	334	714	590	19	6.5	0.00
10	2.0	0.00	0.00	0.00	0.00	124	287	732	510	23	3.5	0.00
11	1.0	0.00	0.00	0.00	0.00	159	253	706	431	16	3.5	0.00
12	1.0	0.00	0.00	0.00	0.00	195	242	590	380	15	1.5	0.00
13	1.0	0.00	0.00	0.00	0.00	250	212	448	348	12	0.50	0.00
14	0.00	0.00	0.00	0.00	0.00	264	231	379	373	15	1.0	0.00
15	0.00	0.00	0.00	0.00	0.00	264	211	382	373	13	2.0	0.00
16	0.00	0.00	0.00	0.00	0.00	264	250	456	318	17	5.6	0.00
17	0.00	0.00	0.00	0.00	0.00	220	272	499	305	33	1.5	0.00
18	0.00	0.00	0.00	0.00	0.00	252	267	510	270	19	0.50	0.00
19	0.00	0.00	0.00	0.00	0.00	295	249	592	264	19	0.50	0.00
20	0.00	0.00	0.00	0.00	0.00	349	263	624	250	22	0.50	127
21	0.00	0.00	0.00	0.00	0.00	402	262	588	226	16	0.50	251
22	0.00	0.00	0.00	0.00	0.00	457	234	572	204	18	0.50	187
23	0.00	0.00	0.00	0.00	0.00	460	217	467	177	20	0.50	98
24	0.00	0.00	0.00	0.00	0.00	505	195	405	138	82	0.00	69
25	0.00	0.00	0.00	0.00	0.00	505	184	348	117	43	0.00	49
26	0.00	0.00	0.00	0.00	0.00	474	185	235	124	54	0.00	39
27	0.00	0.00	0.00	0.00	0.00	472	250	339	122	35	0.00	32
28	0.00	0.00	0.00	0.00	0.00	340	336	408	92	34	0.00	24
29	0.00	0.00	0.00	0.00	0.00	287	359	495	142	58	0.00	36
30	0.00	0.00	0.00	0.00	---	289	325	378	204	29	0.00	76
31	0.00	---	0.00	0.00	---	324	---	342	---	16	0.00	---
TOTAL	111.91	0.25	0.00	0.00	0.00	7,243.00	8,159	14,739	10,521	1,249	119.30	988.00
MEAN	3.61	0.01	0.00	0.00	0.00	234	272	475	351	40.3	3.85	32.9
MAX	43	0.25	0.00	0.00	0.00	505	359	732	688	128	19	251
MIN	0.00	0.00	0.00	0.00	0.00	0.00	184	193	92	12	0.00	0.00
AC-FT	222	0.5	0.00	0.00	0.00	14,370	16,180	29,230	20,870	2,480	237	1,960

CAL YR 2003 TOTAL 33,105.06 MEAN 90.7 MAX 872 MIN 0.00 AC-FT 65,660
WTR YR 2004 TOTAL 43,130.46 MEAN 118 MAX 732 MIN 0.00 AC-FT 85,550

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 (seasonal records subsequent to 1973). Published as "near Park View" prior to 1976.

GAGE.--Water-stage recorder. Concrete control since June 10, 1963. Datum of gage is 7,187.01 ft above National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to May 1, 2001, datum 1.84 ft higher. Prior to July 1, 1971, at site 1,100 ft upstream at higher datums.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,960 ft^3/s, July 30, 1968, gage height, 4.9 ft, site and datum then in use, from rating curve extended above 37 ft^3/s on basis of slope-area measurements at gage heights 3.20 ft and 4.9 ft; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown, gage height, unknown; no flow during most of seasonal operation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	---	---	---	---	---	e0.00	e0.00	0.00	0.00	0.00	0.00
2	0.00	---	---	---	---	---	e0.00	e0.00	0.00	0.00	0.00	0.00
3	0.00	---	---	---	---	---	e0.00	e0.00	0.00	0.00	0.00	0.00
4	0.00	---	---	---	---	---	e0.00	e0.00	0.00	0.00	0.00	0.00
5	0.00	---	---	---	---	---	e0.00	e0.00	0.00	0.00	0.00	0.00
6	0.00	---	---	---	---	---	e0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	---	---	---	---	---	e0.00	0.00	0.00	0.00	0.00	0.00
8	---	---	---	---	---	---	e0.00	0.00	e0.00	0.00	0.00	0.00
9	---	---	---	---	---	---	e0.00	0.00	e0.00	0.00	0.00	0.00
10	---	---	---	---	---	---	e0.00	0.00	e0.00	0.00	0.00	0.00
11	---	---	---	---	---	---	e0.00	e0.00	e0.00	0.00	0.00	0.00
12	---	---	---	---	---	---	e0.00	0.00	e0.00	0.00	0.00	0.00
13	---	---	---	---	---	---	e0.00	0.00	e0.00	0.00	0.00	0.00
14	---	---	---	---	---	---	e0.00	0.00	e0.00	0.00	0.00	0.00
15	---	---	---	---	---	---	e0.00	0.00	e0.00	0.00	0.00	0.00
16	---	---	---	---	---	---	e0.00	0.00	e0.00	e0.00	0.00	0.00
17	---	---	---	---	---	---	e0.00	0.00	e0.00	e0.00	0.00	0.00
18	---	---	---	---	---	---	e0.00	0.00	e0.00	e0.00	0.00	0.00
19	---	---	---	---	---	---	e0.00	0.00	e0.00	e0.00	0.00	0.00
20	---	---	---	---	---	---	e0.00	0.00	e0.00	0.00	0.00	0.00
21	---	---	---	---	---	---	e0.00	0.00	e0.00	0.00	0.00	0.00
22	---	---	---	---	---	---	e0.00	0.00	e0.00	0.00	0.00	0.00
23	---	---	---	---	---	---	e0.00	0.00	e0.00	0.00	0.00	0.00
24	---	---	---	---	---	---	e0.00	0.00	0.00	0.00	0.00	0.00
25	---	---	---	---	---	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00
26	---	---	---	---	---	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00
27	---	---	---	---	---	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00
28	---	---	---	---	---	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00
29	---	---	---	---	---	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00
30	---	---	---	---	---	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00
31	---	---	---	---	---	e0.00	---	0.00	---	0.00	0.00	---
TOTAL	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
MAX	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
MIN	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00

e Estimated

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, 137,920 acre-ft, Oct. 6, elevation, 7,127.49 ft; minimum, 83,210 acre-ft, May 4, elevation, 7,105.95 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on survey by Bureau of Reclamation in 1986)

Elevation	Contents	Elevation	Contents
7,160	263,800	7,180	366,200
7,170	312,700	7,190	424,800

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137,560	132,990	127,080	122,860	110,690	97,060	94,380	84,390	103,460	122,130	118,740	116,560
2	137,710	132,810	127,080	122,580	110,250	96,570	94,400	83,840	104,300	121,990	118,740	116,320
3	137,740	132,600	127,030	122,270	109,840	96,090	94,380	83,390	105,270	121,430	118,770	116,210
4	137,860	132,280	127,030	121,880	109,350	95,630	94,330	83,210	106,550	120,840	118,770	116,100
5	137,890	131,980	126,940	121,510	108,860	95,170	94,240	83,270	107,790	120,230	118,770	115,880
6	137,920	131,680	126,800	121,200	108,320	94,690	94,100	83,490	109,010	119,840	118,770	115,690
7	137,740	131,440	126,710	120,840	107,790	94,260	93,900	83,980	110,380	119,870	118,770	115,450
8	137,680	131,210	126,650	120,480	107,300	93,900	93,920	84,530	111,710	119,840	118,770	115,260
9	137,460	130,940	126,510	120,120	106,750	93,650	93,860	85,100	112,900	119,840	118,740	115,080
10	137,250	130,440	126,360	119,790	106,250	93,500	93,720	85,640	113,850	119,840	118,660	114,840
11	137,100	130,380	126,220	119,400	105,770	93,410	93,540	86,100	114,650	119,840	118,630	114,620
12	136,910	130,000	126,130	119,040	105,270	93,360	93,160	86,940	115,320	119,840	118,600	114,430
13	136,640	129,910	126,020	118,690	104,800	93,410	92,600	87,760	115,880	119,900	118,550	114,220
14	136,430	129,910	125,880	118,300	104,250	93,500	92,140	88,460	116,560	119,930	118,520	114,030
15	136,220	129,620	125,760	117,860	103,710	93,560	91,610	89,100	117,260	119,930	118,490	113,790
16	136,030	129,350	125,620	117,480	103,190	93,540	91,190	90,030	117,810	119,980	118,470	113,580
17	135,880	129,090	125,500	117,050	102,660	93,470	90,820	90,900	118,300	120,010	118,490	113,340
18	135,700	128,800	125,390	116,610	102,220	93,360	90,380	91,650	118,690	120,090	118,440	113,130
19	135,520	128,510	125,280	116,210	101,680	93,160	89,920	92,620	119,120	120,150	118,380	113,000
20	135,300	128,240	125,160	115,990	101,220	93,050	89,470	93,810	119,490	120,150	118,360	113,030
21	135,120	127,950	125,070	115,670	100,860	93,050	89,020	95,010	119,840	120,120	118,360	113,290
22	134,970	127,640	124,960	114,990	100,450	93,230	88,500	96,160	120,180	120,150	118,300	113,290
23	134,760	127,320	124,870	114,510	100,020	93,380	88,010	97,130	120,430	120,150	118,220	113,400
24	134,550	127,170	124,700	114,090	99,670	93,610	87,420	97,970	120,650	120,260	118,170	113,340
25	134,280	127,200	124,500	113,690	99,240	94,400	86,810	98,620	120,820	120,290	118,170	113,240
26	134,040	127,170	124,330	113,290	98,790	94,940	86,180	99,170	121,040	120,370	117,890	113,130
27	133,830	127,140	124,130	112,840	98,410	95,120	85,750	99,740	121,230	120,400	117,480	113,030
28	133,650	127,140	123,910	112,390	98,020	95,030	85,460	100,480	121,370	120,430	117,260	112,840
29	133,590	127,110	123,650	111,970	97,520	94,830	85,250	101,420	121,570	120,480	117,130	112,790
30	133,350	127,110	123,510	111,530	---	94,580	84,920	102,100	121,930	120,150	116,940	112,740
31	133,170	---	123,230	111,130	---	94,440	---	102,730	---	119,350	116,780	---
MAX	137,920	132,990	127,080	122,860	110,690	97,060	94,400	102,730	121,930	122,130	118,770	116,560
MIN	133,170	127,110	123,230	111,130	97,520	93,050	84,920	83,210	103,460	119,350	116,780	112,740
(+)	7,125.92	7,123.86	7,122.50	7,118.05	7,112.54	7,111.20	7,106.79	7,114.72	7,122.04	7,121.11	7,120.17	7,118.66
(++)	-4,450	-6,060	-3,880	-12,100	-13,610	-3,080	-9,520	+17,810	+19,200	-2,580	-2,570	-4,040

CAL YR 2003 MAX 198,770 MIN 123,230 (++) -37,530
WTR YR 2004 MAX 137,920 MIN 83,210 (++) -24,880

(+) 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.--33 years, 133 ft^3/s, 96,360 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,780 ft^3/s, Dec. 18 and 19, 1982; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 470 ft^3/s, many days; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	80	0.00	175	212	245	345	470	0.00	0.00	255	80
2	0.00	80	0.00	175	229	245	345	470	0.00	177	0.00	80
3	0.00	120	0.00	175	245	245	345	470	0.00	370	0.00	80
4	0.00	150	0.00	175	245	245	345	470	0.00	370	0.00	80
5	0.00	150	41	175	245	245	345	470	0.00	370	0.00	80
6	50	150	75	175	245	245	345	470	0.00	193	0.00	80
7	80	150	75	175	245	245	370	470	0.00	0.00	0.00	80
8	80	150	75	175	245	245	370	470	0.00	0.00	0.00	80
9	80	150	75	175	245	245	370	470	0.00	0.00	0.00	80
10	80	150	75	175	245	245	370	470	0.00	0.00	0.00	80
11	80	150	75	175	245	245	370	470	0.00	0.00	0.00	80
12	80	150	75	175	245	245	416	171	0.00	0.00	0.00	80
13	80	150	75	175	245	245	470	0.00	0.00	0.00	0.00	80
14	80	150	75	201	245	245	470	0.00	0.00	0.00	0.00	80
15	80	150	75	212	245	245	470	0.00	0.00	0.00	0.00	80
16	80	150	75	212	245	245	470	0.00	0.00	0.00	0.00	80
17	80	150	75	212	245	245	470	0.00	0.00	0.00	0.00	80
18	80	150	75	212	245	299	470	0.00	0.00	0.00	0.00	80
19	80	150	75	212	245	345	470	0.00	0.00	0.00	0.00	80
20	80	150	75	212	245	345	470	0.00	0.00	0.00	0.00	80
21	80	150	75	212	245	345	470	0.00	0.00	0.00	0.00	80
22	80	150	75	212	245	345	470	0.00	0.00	0.00	0.00	80
23	80	150	75	212	245	345	470	0.00	0.00	0.00	0.00	80
24	80	70	106	212	245	345	470	0.00	0.00	0.00	0.00	80
25	80	0.00	125	212	245	345	470	0.00	0.00	0.00	33	80
26	80	0.00	125	212	245	345	470	0.00	0.00	0.00	80	80
27	80	0.00	125	212	245	345	470	0.00	0.00	0.00	80	80
28	80	0.00	125	212	245	345	470	0.00	0.00	0.00	80	80
29	80	0.00	125	212	245	345	470	0.00	0.00	0.00	80	80
30	80	0.00	125	212	---	345	470	0.00	0.00	235	80	80
31	80	---	178	212	---	345	---	0.00	---	470	80	---
TOTAL	2,050.00	3,350.00	2,425.00	6,080	7,056	8,949	12,796	5,341.00	0.00	2,185.00	768.00	2,400
MEAN	66.1	112	78.2	196	243	289	427	172	0.00	70.5	24.8	80.0
MAX	80	150	178	212	245	345	470	470	0.00	470	255	80
MIN	0.00	0.00	0.00	175	212	245	345	0.00	0.00	0.00	0.00	80
AC-FT	4,070	6,640	4,810	12,060	14,000	17,750	25,380	10,590	0.00	4,330	1,520	4,760

CAL YR	2003	TOTAL	51,449.00	MEAN	141	MAX	520	MIN	0.00	AC-FT	102,000
WTR YR	2004	TOTAL	53,400.00	MEAN	146	MAX	470	MIN	0.00	AC-FT	105,900

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 Oct. 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 Jan. 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 Dec. 1972, for storage of contract water from San Juan-Chama Project. Rehabilitation of outlet works, completed in Dec. 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 Dec. 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 118,790 acre-ft, May 11 and 12, gage height, 6,878.28 ft; minimum, 30,120 acre-ft, Jan. 13, gage height, 6,824.43 ft.

Capacity table (gage height, in feet, and contents, in acre-feet)
(Based on survey by Bureau of Reclamation in 1987)

Gage height	Contents	Gage height	Contents	Gage height	Contents	Gage height	Contents	Gage height	Contents
6,820	25,620	6,830	42,400	6,850	63,730	6,885	135,900	6,901	183,040
6,825	30,720	6,840	48,980	6,865	89,870	6,895	164,400		
6,830	36,330	6,845	56,100	6,875	111,000	6,900	179,800		

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38,220	35,140	35,390	30,260	31,400	36,390	64,150	102,370	111,500	100,660	70,780	47,030
2	37,820	34,990	35,250	30,270	31,490	36,560	66,150	102,950	111,600	100,200	69,970	46,270
3	37,620	34,980	35,080	30,300	31,680	36,740	68,100	104,320	111,570	99,750	69,310	45,590
4	37,600	34,980	34,920	30,270	31,810	36,940	69,740	105,930	111,460	99,080	68,720	44,860
5	37,590	34,940	34,800	30,200	31,970	37,100	71,180	107,690	111,300	98,470	68,440	44,150
6	37,600	34,960	34,760	30,150	32,100	37,270	72,650	109,560	111,110	97,600	68,280	43,920
7	37,680	35,030	34,700	30,140	32,220	37,470	73,830	111,370	110,930	96,280	68,120	43,980
8	37,740	35,100	34,650	30,150	32,370	37,720	75,090	112,450	110,820	94,890	67,420	44,000
9	37,830	35,190	34,620	30,170	32,490	38,040	76,510	113,590	110,700	93,480	66,420	44,020
10	37,900	35,270	34,540	30,160	32,610	38,420	77,720	116,550	110,610	92,240	65,430	43,770
11	37,970	35,350	34,450	30,150	32,740	38,800	78,760	118,790	110,490	90,890	64,390	43,350
12	38,030	35,540	34,420	30,140	32,890	39,180	79,750	118,790	110,380	89,480	63,440	42,900
13	38,080	35,710	34,340	30,120	33,000	39,620	80,810	117,100	110,270	88,170	62,360	42,510
14	38,020	35,840	34,260	30,140	33,110	40,100	81,880	115,810	110,130	87,140	61,150	42,050
15	37,880	35,960	34,100	30,220	33,260	40,620	82,980	114,930	109,880	85,520	60,110	41,600
16	37,710	36,060	33,820	30,320	33,380	41,120	84,290	114,180	109,810	84,240	59,280	41,160
17	37,610	36,190	33,490	30,380	33,510	41,620	85,810	113,220	109,350	83,090	58,630	40,720
18	37,410	36,270	33,300	30,460	33,650	42,310	87,420	112,990	109,080	81,700	58,380	40,300
19	37,240	36,330	33,020	30,520	33,820	43,270	88,980	112,640	108,810	80,310	57,540	39,890
20	37,090	36,410	32,680	30,610	34,000	44,350	90,660	112,640	108,430	79,060	56,720	39,890
21	36,940	36,500	32,330	30,720	34,200	45,560	92,160	112,680	107,820	77,790	55,800	39,880
22	36,790	36,610	31,990	30,760	34,390	46,880	93,380	112,660	107,260	76,530	54,960	39,770
23	36,620	36,640	31,660	30,820	34,700	48,390	94,320	112,430	106,480	75,640	54,040	39,640
24	36,450	36,590	31,400	30,890	35,110	50,130	95,090	112,150	105,770	74,920	53,150	39,310
25	36,290	36,430	31,230	30,970	35,360	52,210	95,790	111,620	104,690	74,340	52,290	38,870
26	36,120	36,270	31,100	31,030	35,570	54,430	96,460	111,440	103,520	74,050	51,570	38,520
27	35,980	36,080	30,940	31,050	35,780	56,640	96,940	111,460	102,350	73,960	50,830	38,180
28	35,790	35,890	30,720	31,110	36,030	58,240	99,020	111,460	101,190	73,850	50,070	37,840
29	35,640	35,690	30,500	31,180	36,210	59,680	100,600	111,390	100,660	73,680	49,330	37,550
30	35,470	35,560	30,350	31,240	---	61,070	101,810	111,200	100,660	72,850	48,570	37,360
31	35,270	---	30,270	31,340	---	62,520	---	111,250	---	71,680	47,820	---
MAX	38,220	36,640	35,390	31,340	36,210	62,520	101,810	118,790	111,600	100,660	70,780	47,030
MIN	35,270	34,940	30,270	30,120	31,400	36,390	64,150	102,370	100,660	71,680	47,820	37,360
(+)	6,829.09	6,829.34	6,824.57	6,825.57	6,829.90	6,849.23	6,870.84	6,875.09	6,870.30	6,854.90	6,839.15	6,830.88
(++)	-3,420	+290	-5,290	+1,070	+4,870	+26,310	+39,290	+9,440	-10,590	-28,980	-23,860	-10,460

CAL YR 2003 MAX 106,550 MIN 11,220 (++) +19,070
WTR YR 2004 MAX 118,790 MIN 30,120 (++) - 1,330

(+) Gage height, 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 probably is 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 Oct. 1935, at site 1.5 mi upstream at different datum. Oct. 1935 to Sept. 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 Sept. 1904 and May 1920, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	268	204	153	228	220	219	231	1,000	168	73	729	429
2	251	207	153	228	219	219	227	989	241	377	450	429
3	192	207	153	229	219	219	229	1,080	296	631	363	423
4	124	206	153	225	220	219	231	1,290	354	615	302	457
5	108	206	153	225	218	219	234	1,400	372	614	194	455
6	102	168	152	225	219	219	235	1,490	373	614	109	238
7	121	148	153	225	219	219	330	1,730	337	645	108	95
8	118	153	153	224	220	220	419	2,020	279	662	341	94
9	103	153	153	222	219	220	420	2,040	261	661	494	93
10	103	153	153	218	219	219	421	969	237	655	493	214
11	103	153	152	216	223	221	422	880	216	653	494	293
12	106	154	152	215	223	221	427	2,020	215	653	493	294
13	105	154	148	216	223	222	427	2,110	215	652	556	298
14	158	154	148	215	223	222	427	1,890	216	649	597	297
15	197	154	197	216	223	223	423	1,510	219	648	595	296
16	197	154	235	213	223	222	414	1,440	218	621	413	299
17	197	154	234	217	223	223	416	1,440	215	604	277	299
18	197	154	233	218	223	224	417	1,190	215	687	256	300
19	200	154	250	221	223	218	413	958	215	693	279	302
20	200	154	281	221	223	218	411	795	215	641	396	242
21	200	154	281	221	223	224	460	729	277	625	433	202
22	200	154	280	222	224	228	500	729	379	640	428	201
23	199	154	278	222	175	226	535	728	411	501	430	201
24	199	154	246	221	135	231	593	727	411	370	431	283
25	201	154	226	221	191	233	593	729	533	319	431	329
26	204	153	227	220	219	231	593	555	625	193	428	291
27	204	153	226	219	218	230	593	355	625	109	430	290
28	204	153	226	219	219	233	657	379	625	108	431	290
29	204	153	226	219	218	234	757	417	309	161	430	296
30	204	153	226	223	---	234	910	417	66	548	431	248
31	203	---	226	223	---	234	---	281	---	983	429	---
TOTAL	5,372	4,879	6,227	6,847	6,244	6,944	13,365	34,287	9,338	16,605	12,671	8,478
MEAN	173	163	201	221	215	224	446	1,106	311	536	409	283
MAX	268	207	281	229	224	234	910	2,110	625	983	729	457
MIN	102	148	148	213	135	218	227	281	66	73	108	93
AC-FT	10,660	9,680	12,350	13,580	12,380	13,770	26,510	68,010	18,520	32,940	25,130	16,820

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2004, BY WATER YEAR (WY)

MEAN	220	181	268	157	166	285	782	1,529	837	442	392	332
MAX	640	646	1,272	435	522	962	1,887	3,412	2,342	1,092	729	1,010
(WY)	(1998)	(1987)	(1976)	(1987)	(1986)	(1985)	(1986)	(1985)	(1995)	(2003)	(2003)	(1998)
MIN	36.7	43.9	51.8	23.9	17.1	27.8	33.2	262	186	126	54.4	50.6
(WY)	(1979)	(1977)	(2003)	(1978)	(1976)	(1973)	(1973)	(1972)	(1976)	(1985)	(1971)	(1972)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1971 - 2004	
ANNUAL TOTAL	117,430		131,257			
ANNUAL MEAN	322		359		a467	
HIGHEST ANNUAL MEAN					754	1985
LOWEST ANNUAL MEAN					194	1972
HIGHEST DAILY MEAN	1,340	Aug 2	2,110	May 13	b5,790	May 21, 1973
LOWEST DAILY MEAN	14	Jan 25	66	Jun 30	11	Oct 1, 1972
ANNUAL SEVEN-DAY MINIMUM	15	Jan 25	108	Oct 6	15	Jan 25, 2003
MAXIMUM PEAK FLOW			2,150	May 8		
MAXIMUM PEAK STAGE			4.58	May 8		
ANNUAL RUNOFF (AC-FT)	232,900		260,300		338,600	
10 PERCENT EXCEEDS	873		653		1,070	
50 PERCENT EXCEEDS	197		226		223	
90 PERCENT EXCEEDS	22		153		51	

a Average discharge for 5 years (water years 1914-15, 1921-23), 448 ft^3/s, 324,600 acre-ft/yr, prior to completion of El Vado Dam. 35 years (water years 1936-70), 373 ft^3/s, 270,200 acre-ft/yr, prior to release of transmountain water.
b Maximum discharge 9,000 ft^3/s, May 22, 1920, gage height, 12 ft, site and datum then in use, from rating curve extended above 3,500 ft^3/s; no flow Mar. 25, 26, 31, 1955. Maximum discharge since construction of El Vado Dam in 1935, 6,610 ft^3/s, May 7, 1985, gage height, 7.08 ft.

08286500 RIO CHAMA ABOVE ABIQUIU RESERVOIR, NM

LOCATION.--Lat 36°19'06", long 106°35'50", Rio Arriba County, Hydrologic Unit 13020102, on left bank 40 ft downstream from site of former bridge, 7.7 mi downstream from Rio Gallina, 9.0 mi northwest of Youngsville, 15.6 mi upstream from Abiquiu Dam, 30.3 mi downstream from El Vado Dam, and at mile 47.4.

DRAINAGE AREA.--1,600 mi^2, of which about 100 mi^2 probably is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1961 to current year.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,280 ft above National Geodetic Vertical Datum of 1929, from topographic map. Aug. 1961 to Oct. 1998, water-stage recorder at present site at datum 3.00 ft higher.

REMARKS.--Records good. 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	275	186	131	224	223	228	237	975	136	58	894	462
2	250	186	131	224	222	233	246	960	206	90	474	461
3	262	189	131	226	224	230	295	991	261	605	458	442
4	185	186	130	222	226	236	378	1,200	316	596	325	475
5	120	186	130	209	223	236	276	1,340	359	602	314	473
6	93	184	131	215	223	228	256	1,420	356	607	121	430
7	121	124	131	226	223	244	266	1,620	348	624	103	111
8	272	130	138	226	225	293	441	1,920	294	656	139	97
9	97	131	132	218	226	316	461	2,040	252	655	501	94
10	86	131	130	218	226	317	459	1,550	246	655	500	100
11	84	132	130	216	226	285	492	409	205	658	496	307
12	83	136	132	215	226	268	480	1,920	203	657	494	311
13	82	167	130	215	223	250	451	2,030	203	656	517	310
14	81	158	131	215	228	239	441	1,930	203	659	599	310
15	174	137	130	216	227	232	430	1,590	202	661	603	310
16	182	134	213	213	228	226	425	1,400	201	649	547	310
17	184	134	218	221	228	224	419	1,450	201	618	322	310
18	184	134	219	221	229	225	419	1,280	200	656	274	310
19	184	133	218	221	232	225	421	1,000	200	725	276	313
20	184	133	262	224	254	221	417	839	199	680	376	302
21	184	133	267	224	304	223	433	718	207	640	459	208
22	185	132	269	219	290	231	501	710	317	662	454	204
23	184	132	267	220	285	230	503	707	392	630	450	205
24	184	132	261	221	199	233	584	706	394	433	451	207
25	185	134	218	223	171	237	584	703	432	378	451	366
26	186	132	219	219	241	239	582	646	598	324	453	295
27	185	131	216	217	248	239	580	404	609	147	455	295
28	185	132	213	221	263	239	606	340	612	112	461	295
29	185	132	215	224	238	235	705	413	558	115	462	298
30	184	131	227	221	---	234	817	410	92	302	462	306
31	185	---	224	220	---	233	---	403	---	878	462	---
TOTAL	5,215	4,352	5,694	6,814	6,781	7,529	13,605	34,024	9,002	16,388	13,353	8,917
MEAN	168	145	184	220	234	243	454	1,098	300	529	431	297
MAX	275	189	269	226	304	317	817	2,040	612	878	894	475
MIN	81	124	130	209	171	221	237	340	92	58	103	94
AC-FT	10,340	8,630	11,290	13,520	13,450	14,930	26,990	67,490	17,860	32,510	26,490	17,690

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2004, BY WATER YEAR (WY)

MEAN	231	186	273	163	189	325	834	1,627	876	450	410	339
MAX	737	676	1,273	431	495	1,050	1,985	3,741	2,619	1,054	784	1,036
(WY)	(1998)	(1987)	(1976)	(1987)	(1987)	(1985)	(1985)	(1984)	(1995)	(2003)	(1998)	(1998)
MIN	40.1	48.4	47.1	29.1	12.1	44.1	106	259	185	132	86.1	77.9
(WY)	(1979)	(1977)	(2003)	(1978)	(2003)	(1977)	(1977)	(1972)	(1976)	(1985)	(1979)	(1972)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1971 - 2004	
ANNUAL TOTAL	117,763.0		131,674			
ANNUAL MEAN	323		360		a493	
HIGHEST ANNUAL MEAN					823	1980
LOWEST ANNUAL MEAN					204	1972
HIGHEST DAILY MEAN	1,290	Aug 2	2,040	May 9	6,480	May 18, 1984
LOWEST DAILY MEAN	5.0	Feb 8	58	Jul 1	5.0	Feb 8, 2003
ANNUAL SEVEN-DAY MINIMUM	7.3	Feb 4	98	Oct 9	7.3	Feb 4, 2003
MAXIMUM PEAK FLOW			2,160	May 8	6,680	May 8, 1985
MAXIMUM PEAK STAGE			8.58	May 8	9.08	Jul 22, 2002
INSTANTANEOUS LOW FLOW			54	Jul 1	5.0	Feb 8, 2003
ANNUAL RUNOFF (AC-FT)	233,600		261,200		357,500	
10 PERCENT EXCEEDS	865		656		1,110	
50 PERCENT EXCEEDS	184		236		233	
90 PERCENT EXCEEDS	17		131		63	

a Average discharge for 9 years (water years 1962-70), 358 ft^3/s, 259,400 acre-ft/yr, prior to release of transmountain water.

08286500 RIO CHAMA ABOVE ABIQUIU RESERVOIR, NM—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1969 to December 1974, April 2003 to current year.
WATER TEMPERATURE: October 1962 to December 1974, April 2003 to current year.

INSTRUMENTATION.--Specific conductance and thermistor since March 2003. Hourly data logged.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 2,200 microsiemens, Sept. 9, 2003; minimum daily, 125 microsiemens, May 20, 2004.
WATER TEMPERATURE: Maximum daily, 32.0 °C, Aug. 19, 1964; minimum daily, freezing point many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 958 microsiemens, July 24; minimum daily, 125 microsiemens, May 20.
WATER TEMPERATURE: Maximum daily, 25.6 °C, Aug. 8; minimum daily, 0.0 °C, during several winter months.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	297	291	294	323	318	322	358	351	354	344	339	341
2	419	291	304	324	320	322	370	354	359	352	343	346
3	594	296	342	328	320	323	379	357	364	353	344	347
4	520	309	369	328	325	327	376	354	361	358	346	351
5	419	385	404	329	319	325	364	355	358	370	350	359
6	413	410	411	330	320	325	364	355	359	378	350	364
7	413	387	411	342	327	338	385	359	364	357	335	346
8	635	323	446	357	341	351	387	359	372	344	332	338
9	584	400	484	350	341	346	380	363	373	352	344	347
10	400	360	379	347	340	344	375	355	363	356	346	351
11	374	344	361	346	340	343	372	356	363	361	349	354
12	364	332	353	346	328	342	364	358	361	364	351	357
13	371	339	357	421	328	370	366	358	361	371	352	358
14	372	358	365	695	400	477	369	355	362	368	352	358
15	367	311	341	447	368	389	366	359	362	365	353	357
16	313	309	311	383	360	371	366	334	352	363	354	357
17	315	310	313	377	362	368	350	331	342	364	354	359
18	314	309	312	368	352	359	343	328	336	382	352	361
19	315	309	313	370	350	357	340	332	336	386	352	361
20	316	310	314	372	350	358	338	331	334	377	351	358
21	316	310	314	373	353	359	337	331	334	367	350	358
22	317	311	315	372	357	364	342	332	336	365	352	357
23	318	312	316	366	352	359	347	335	339	370	356	363
24	319	313	317	370	348	358	349	336	342	371	355	363
25	319	313	317	354	347	350	356	345	349	367	357	360
26	320	316	319	355	347	352	357	348	353	373	353	362
27	320	314	318	361	352	357	361	349	354	380	358	371
28	321	316	319	366	351	357	369	348	360	375	350	365
29	323	318	321	362	351	355	369	352	361	365	347	358
30	323	318	322	358	351	354	360	334	349	361	350	357
31	324	318	322	---	---	---	348	336	342	361	353	357
MONTH	635	291	345	695	318	354	387	328	353	386	332	356

08286500 RIO CHAMA ABOVE ABIQUIU RESERVOIR, NM—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	360	352	356	433	406	420	421	416	418	246	242	244
2	366	352	359	427	406	419	417	414	415	246	240	244
3	363	355	358	423	399	411	418	414	415	243	240	242
4	359	350	355	466	406	428	422	418	420	244	233	239
5	362	353	357	466	418	441	428	422	424	237	229	233
6	366	352	358	456	410	425	430	426	428	230	223	227
7	366	352	360	451	406	422	431	426	428	232	224	227
8	366	351	359	458	393	410	429	423	426	230	223	226
9	365	352	359	424	417	420	423	412	415	224	214	220
10	365	349	359	429	424	427	412	392	404	233	208	213
11	363	351	359	432	428	430	392	362	373	294	233	268
12	363	352	358	434	430	432	369	347	359	245	198	208
13	369	354	362	439	433	436	347	332	338	214	205	208
14	366	343	357	443	437	440	349	321	329	207	200	205
15	358	349	355	445	440	442	321	302	314	205	202	204
16	359	348	354	447	441	444	302	288	296	206	135	190
17	359	347	353	448	442	444	298	282	290	201	149	188
18	361	347	353	450	443	446	296	284	291	199	156	192
19	364	351	355	451	445	447	289	273	280	163	138	149
20	442	359	392	451	445	448	286	275	280	166	125	144
21	518	361	426	451	445	447	284	274	279	151	129	141
22	423	370	395	450	444	446	275	269	272	170	148	160
23	473	362	419	448	443	445	272	262	268	189	164	182
24	531	381	434	446	441	444	269	261	265	193	188	192
25	521	404	456	444	439	441	267	258	263	192	189	191
26	465	403	438	440	435	438	264	254	258	197	189	190
27	489	409	440	436	431	434	260	256	258	212	197	206
28	476	405	441	432	428	430	259	249	255	218	212	215
29	461	416	441	429	424	427	257	246	250	212	200	203
30	---	---	---	425	420	423	251	243	248	202	196	200
31	---	---	---	423	418	420	---	---	---	198	194	196
MONTH	531	343	382	466	393	433	431	243	332	294	125	205
		JUNE			JULY			AUGUST			SEPTEMBER	
1	254	195	226	---	---	---	187	185	186	225	220	222
2	273	233	257	---	---	---	198	187	193	227	221	225
3	233	212	219	309	172	192	199	193	195	230	225	227
4	212	198	204	177	172	175	210	199	205	232	227	229
5	198	192	194	176	173	174	210	206	208	231	230	231
6	199	190	194	177	172	174	246	210	229	243	231	236
7	196	188	193	177	172	174	283	246	263	277	243	261
8	202	191	197	175	171	174	283	260	278	311	277	294
9	209	198	203	176	170	173	260	196	208	313	308	311
10	208	200	204	176	171	174	200	197	198	313	308	311
11	217	206	210	176	171	174	200	197	198	309	254	273
12	216	210	212	177	172	175	200	197	199	258	254	256
13	217	208	212	177	173	175	220	199	201	258	254	256
14	217	207	212	177	173	175	213	197	199	258	255	257
15	216	207	211	210	174	178	201	199	200	258	254	256
16	214	208	211	180	177	178	246	199	204	258	253	255
17	214	207	210	180	177	179	217	206	213	---	---	---
18	213	207	210	180	177	179	224	217	221	---	---	---
19	212	205	209	178	176	177	223	220	222	---	---	---
20	211	205	208	180	178	179	287	213	229	---	---	---
21	211	204	208	182	178	181	214	208	211	---	---	---
22	210	190	197	182	180	181	212	208	211	274	271	273
23	190	180	184	416	180	197	213	210	212	274	272	273
24	185	178	182	958	187	314	215	211	213	275	271	273
25	185	178	182	467	196	220	215	212	213	275	252	261
26	180	172	176	230	206	209	216	212	214	261	254	258
27	177	171	174	595	209	288	218	213	216	263	259	261
28	176	170	173	750	243	425	218	215	217	265	260	262
29	188	170	174	617	283	353	221	215	218	270	262	264
30	---	---	---	336	213	263	221	218	219	450	263	314
31	---	---	---	213	185	191	223	220	221	---	---	---
MONTH	273	170	202	958	170	207	287	185	213	450	220	262
YEAR	958	125	305									

08286500 RIO CHAMA ABOVE ABIQUIU RESERVOIR, NM—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.4	12.6	14.8	11.9	8.8	10.1	5.3	1.2	3.3	3.0	0.4	1.7
2	16.9	14.1	15.0	12.1	9.3	10.7	5.8	2.1	3.8	4.4	2.1	3.0
3	15.0	12.8	13.8	12.2	8.6	10.8	5.1	1.3	3.1	4.8	2.3	3.4
4	16.1	12.5	13.9	10.2	6.6	8.2	4.0	0.2	2.1	2.9	0.0	1.5
5	16.1	11.5	13.8	9.2	4.6	6.8	3.2	0.1	1.8	0.5	0.0	0.1
6	17.3	11.1	14.3	8.8	4.3	6.5	4.9	0.9	2.8	0.6	0.0	0.1
7	16.3	11.9	14.1	8.7	4.7	7.0	4.8	1.4	3.1	1.3	0.0	0.5
8	14.9	9.2	12.3	10.9	6.8	8.7	4.9	3.1	4.0	2.8	0.0	1.0
9	17.2	10.5	13.8	10.6	6.4	8.6	5.2	2.2	3.5	3.9	0.0	1.6
10	17.4	12.9	15.2	10.0	6.0	8.2	3.6	0.2	1.9	4.0	0.0	1.6
11	18.8	12.5	15.6	11.0	7.9	8.9	3.0	0.0	1.4	3.6	0.0	1.5
12	17.5	11.4	14.6	8.2	5.0	6.9	3.9	1.1	2.3	3.7	0.4	1.7
13	15.7	10.8	13.2	5.3	4.3	4.7	2.8	0.0	1.3	4.1	0.3	2.0
14	14.1	7.7	11.1	7.1	4.5	5.6	2.7	0.0	1.2	2.8	0.0	1.2
15	13.8	8.5	11.1	7.8	4.4	6.1	2.1	0.1	1.1	3.3	0.7	1.9
16	14.2	9.0	11.5	6.7	3.6	5.4	1.2	0.0	0.3	4.5	2.3	3.3
17	15.3	9.4	12.2	5.9	3.9	5.0	1.1	0.0	0.2	5.2	2.6	3.7
18	16.0	10.0	12.8	6.6	2.3	4.4	2.2	0.0	0.8	5.2	1.9	3.2
19	15.5	9.9	12.6	6.8	2.1	4.4	3.5	0.0	1.3	3.6	0.3	1.9
20	15.4	9.6	12.3	7.0	2.6	4.8	3.7	0.0	1.5	3.4	1.1	2.0
21	15.3	9.4	12.3	6.8	2.8	4.9	3.4	0.9	2.0	4.1	1.3	2.3
22	15.2	9.6	12.3	6.0	1.5	4.5	4.7	2.0	3.0	3.5	0.0	1.4
23	14.5	9.5	11.9	2.6	0.0	1.1	4.2	1.2	2.4	2.8	0.0	0.9
24	12.8	8.7	10.8	2.1	0.0	0.7	2.7	0.3	1.3	2.8	0.0	1.0
25	11.0	8.6	9.7	4.1	0.1	2.2	2.5	0.0	1.2	3.0	0.0	1.4
26	11.5	6.6	8.9	4.8	1.0	2.9	4.0	1.0	2.2	1.3	0.0	0.2
27	10.2	6.5	8.4	3.7	0.3	1.9	1.7	0.0	0.6	0.9	0.0	0.2
28	11.3	7.1	9.1	2.1	0.0	0.8	0.2	0.0	0.0	1.7	0.0	0.4
29	12.5	7.4	10	3.3	0.0	1.3	0.2	0.0	0.0	2.1	0.0	0.6
30	12.1	8.4	10.2	4.7	0.3	2.5	0.9	0.0	0.2	4.2	0.0	1.4
31	10.2	7.2	8.8	---	---	---	0.8	0.0	0.3	3.9	0.2	1.8
MONTH	18.8	6.5	12.3	12.2	0.0	5.5	5.8	0.0	1.7	5.2	0.0	1.6
		FEBRUARY			MARCH			APRIL			MAY	
1	4.1	0.7	2.0	6.3	0.9	3.4	13.2	6.2	9.3	11.7	6.7	9.3
2	2.5	0.0	1.0	4.7	2.7	3.6	9.8	6.9	8.4	12.2	7.0	9.9
3	2.3	0.0	0.9	6.5	2.1	4.1	7.9	6.2	6.8	12.6	7.3	10.3
4	2.8	0.1	1.2	6.4	3.6	4.9	8.0	5.6	6.7	12.3	7.5	10.0
5	5.2	0.9	2.5	6.5	2.6	4.2	12.1	6.3	8.5	12.3	7.6	9.8
6	5.0	0.6	2.3	7.5	1.3	4.1	11.5	7.1	9.1	12.7	7.5	10.1
7	2.7	0.0	0.9	9.0	2.6	5.4	12.6	6.4	9.1	12.6	7.5	10.1
8	4.5	0.0	1.5	9.5	2.9	6.0	10.0	7.8	8.8	11.7	7.6	9.7
9	3.3	0.0	1.2	9.7	3.1	6.3	8.7	6.7	7.5	12.1	7.6	9.8
10	3.5	0.0	1.2	9.7	3.4	6.5	8.4	5.6	6.7	12.2	7.6	9.9
11	1.4	0.0	0.5	9.9	3.9	6.7	9.0	4.9	6.5	16.5	10.4	13.1
12	2.7	0.0	0.7	9.1	4.6	6.6	10.7	6.2	8.3	13.3	7.8	10.1
13	2.0	0.0	0.4	10.7	5.4	7.6	11.7	7.2	9.3	12.2	7.5	9.7
14	2.7	0.0	0.8	10.6	4.9	7.5	11.3	8.2	9.6	12.4	7.2	9.7
15	4.9	0.0	1.7	10.6	4.6	7.2	11.8	7.8	9.6	12.8	7.6	10.2
16	5.2	0.0	2.1	10.6	4.6	7.2	12.2	8.0	10.0	12.5	8.0	10.5
17	6.3	0.3	2.9	11.3	4.4	7.5	11.2	9.1	10.0	12.6	7.8	10.3
18	7.0	1.6	4.0	12.2	4.9	8.1	11.8	8.5	9.8	13.3	7.9	10.8
19	7.8	3.3	4.9	12.6	5.3	8.5	10.8	7.8	9.2	13.5	8.2	11.2
20	6.0	2.6	4.2	13.1	5.8	9.0	11.0	7.7	9.2	13.5	9.2	11.8
21	5.5	3.0	3.8	13.5	6.5	9.5	10.6	7.4	8.9	14.0	9.6	12.0
22	5.7	2.5	3.9	13.4	6.5	9.4	8.7	7.1	8.2	13.8	10.0	12.2
23	5.3	1.8	3.6	12.6	6.0	9.1	9.5	6.9	7.9	12.7	9.1	11.3
24	5.2	1.2	3.3	13.3	7.2	9.9	11.6	6.8	9.0	12.0	9.3	10.9
25	7.9	2.0	4.6	13.6	7.7	10.1	11.0	7.4	9.4	12.0	8.7	10.8
26	6.9	2.2	4.4	13.2	6.5	9.4	12.2	7.3	9.8	14.0	9.1	11.7
27	6.6	2.5	4.5	10.6	5.8	8.3	12.2	8.1	10.4	15.5	11.3	13.3
28	6.0	2.9	4.2	10.9	4.1	7.1	11.8	8.2	10.2	18.3	11.8	14.8
29	4.3	1.4	2.7	12.2	4.6	8.0	10.8	7.9	9.7	15.5	12.8	13.9
30	---	---	---	12.9	5.0	8.4	10.0	6.7	8.7	14.6	10.9	12.7
31	---	---	---	13.3	5.3	8.9	---	---	---	15.1	10.7	12.9
MONTH	7.9	0.0	2.5	13.6	0.9	7.2	13.2	4.9	8.8	18.3	6.7	11.1

08286500 RIO CHAMA ABOVE ABIQUIU RESERVOIR, NM—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.4	11.0	15.1	---	---	---	16.8	12.9	15.4	19.0	15.9	17.2
2	20.5	13.2	16.8	---	---	---	17.2	15.4	16.2	19.1	16.2	17.4
3	20.2	13.7	16.9	19.8	12.5	15.2	19.3	14.9	17.0	17.9	16.2	16.9
4	20.1	14.3	16.9	15.6	12.3	14.3	21.6	15.9	18.2	16.9	16.3	16.7
5	17.6	13.3	15.3	15.9	11.5	13.9	20.4	17.1	18.3	18.4	14.7	16.5
6	18.0	13.1	15.5	16.4	12.8	14.8	24.1	16.0	19.7	19.1	15.4	17.1
7	18.4	13.4	15.8	15.9	12.8	14.5	24.9	17.8	21.2	20.9	13.9	17.5
8	19.7	13.6	16.4	16.3	12.3	14.4	25.6	17.2	21.4	22.4	14.4	18.3
9	18.8	13.0	15.8	15.6	12.3	14.2	21.3	16.8	18.3	21.2	14.1	17.9
10	19.1	12.9	15.8	16.3	12.5	14.6	19.0	15.8	17.3	20.6	14.6	17.7
11	19.0	11.9	15.4	15.9	13.1	14.8	17.1	14.8	16.0	21.2	15.7	18.2
12	19.4	12.2	15.7	16.4	13.0	14.6	18.8	14.8	16.5	19.6	16.0	17.7
13	20.5	12.6	16.5	17.2	12.4	15.1	18.4	15.9	16.9	19.7	15.7	17.7
14	21.4	13.8	17.7	17.9	13.9	16.1	18.7	15.3	16.9	20.5	15.6	17.7
15	20.2	14.4	17.4	16.9	14.1	15.8	17.9	14.5	16.6	19.5	14.8	16.9
16	20.8	13.0	16.9	16.6	13.3	15.3	17.8	15.4	16.9	19.1	13.8	16.2
17	20.7	13.6	17.1	18.3	14.5	16.2	21.0	16.2	18.0	---	---	---
18	21.2	13.8	17.5	17.7	14.7	16.3	20.9	15.2	17.9	---	---	---
19	20.7	14.1	17.4	17.3	13.4	15.7	20.4	16.0	17.9	---	---	---
20	21.2	14.0	17.6	17.3	14.0	16.1	20.8	15.8	17.8	---	---	---
21	20.2	14.1	17.2	17.7	14.7	16.3	18.7	16.2	16.9	---	---	---
22	19.4	13.8	16.2	17.4	14.4	16.1	18.9	15.5	17.0	16.0	11.7	13.8
23	17.7	13.1	15.2	15.8	13.3	14.8	18.5	15.7	16.9	16.4	10.1	13.1
24	16.4	13.3	14.9	19.0	14.0	16.0	18.1	15.5	16.8	17.4	11.1	14.0
25	17.1	14.2	15.3	19.9	15.4	16.9	18.8	15.4	17.0	16.0	12.4	13.7
26	14.9	11.7	13.3	20.3	14.7	16.8	19.3	15.9	17.5	17.8	12.2	14.7
27	15.0	11.3	13.6	19.6	14.4	16.8	19.0	16.1	17.4	18.3	12.9	15.2
28	14.7	12.4	13.7	19.8	14.3	17.1	18.9	15.6	17.2	17.6	13.3	15.2
29	15.0	12.1	13.6	21.8	15.0	18.3	19.0	15.6	17.2	15.5	12.6	13.8
30	---	---	---	21.5	16.2	18.8	17.6	15.6	16.6	14.7	11.0	12.8
31	---	---	---	17.8	13.1	15.6	18.2	14.4	16.1	---	---	---
MONTH	21.4	11.0	15.9	21.8	11.5	15.7	25.6	12.9	17.5	22.4	10.1	16.2
YEAR	25.6	0.0	9.5									

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 probably is noncontributing.

PERIOD OF RECORD.--February 1963 to September 1965 (monthend contents only), October 1965 to current year. October 1969 to December 1975, contents at 0800 hours.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Reservoir is formed by earthfill dam, completed Feb. 5, 1963. Capacity, 1,198,500 acre-ft between elevations 6,060 ft, invert of outlet tunnel, and 6,350 ft, crest of spillway, based on capacity table from 1990 survey. No dead storage. Reservoir is used for flood control and, since Mar. 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 Dec. 1975. U.S. Army Corps of Engineers satellite telemetry 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, 136,610 acre-ft, May 14 and 19, elevation, 6,207.39 ft; minimum, 65,040 acre-ft, Oct. 1, elevation, 6,183.49 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on survey by U.S. Army Corps of Engineers in 1997)

Elevation	Contents	Elevation	Contents
6,180	57,260	6,200	111,760
6,190	81,920	6,220	183,880

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65,040	66,860	68,660	73,350	85,350	96,280	107,490	127,910	134,820	128,810	131,300	126,780
2	65,130	67,080	68,740	73,760	85,720	96,600	107,960	129,080	134,780	129,010	131,370	126,980
3	65,160	67,150	68,790	74,180	86,120	96,900	108,620	129,980	134,820	129,390	131,440	127,120
4	65,160	67,320	68,860	74,600	86,460	97,260	109,250	130,850	134,710	129,740	131,440	127,190
5	65,130	67,440	68,940	74,940	86,830	97,590	109,760	131,580	134,640	130,080	131,710	127,260
6	65,110	67,520	69,010	75,420	87,140	97,920	110,230	132,300	134,710	130,150	131,750	127,290
7	65,350	67,590	69,090	75,920	87,460	98,250	110,870	133,420	134,680	130,050	131,640	126,740
8	65,590	67,590	69,240	76,370	87,800	98,740	111,820	134,710	134,470	129,980	131,540	125,710
9	65,620	67,620	69,310	76,770	88,170	99,220	112,870	136,010	134,360	129,950	131,330	124,490
10	65,620	67,670	69,390	77,200	88,520	99,610	113,930	135,870	134,220	129,840	131,090	123,500
11	65,620	67,670	69,440	77,630	88,890	100,070	114,980	134,820	134,050	129,770	130,740	122,630
12	65,620	67,720	69,490	78,060	89,290	100,430	115,950	134,990	133,870	129,740	130,190	121,790
13	65,590	67,860	69,540	78,470	89,670	100,740	116,790	135,980	133,560	129,700	129,880	120,960
14	65,450	67,960	69,620	78,900	90,010	101,040	117,540	136,610	133,110	129,640	129,700	120,230
15	65,420	67,990	69,640	79,310	90,390	101,380	118,260	136,220	132,650	129,600	129,530	119,340
16	65,540	68,010	69,840	79,640	90,740	101,680	118,650	136,220	132,200	129,570	129,600	118,480
17	65,640	68,090	70,070	79,960	91,030	101,930	118,850	136,470	131,750	129,570	129,640	117,800
18	65,710	68,140	70,370	80,290	91,410	102,240	119,010	136,570	131,160	129,570	129,320	117,150
19	65,780	68,190	70,630	80,620	91,850	102,580	119,110	136,610	130,290	129,600	128,880	116,630
20	65,830	68,240	70,830	81,060	92,220	102,950	119,340	136,500	129,290	129,670	128,460	116,140
21	65,880	68,260	71,030	81,470	92,750	103,280	119,900	136,260	128,390	129,600	128,120	115,850
22	65,900	68,260	71,160	81,890	93,310	103,750	120,360	136,120	127,810	129,460	127,770	115,440
23	65,900	68,290	71,210	82,280	93,750	104,120	120,960	135,900	127,740	129,640	127,500	114,980
24	65,900	68,310	71,290	82,640	94,080	104,620	121,620	135,730	127,600	129,980	127,360	114,790
25	65,900	68,390	71,390	83,000	94,370	105,180	122,290	135,730	127,600	130,400	127,080	114,760
26	65,900	68,440	71,520	83,300	94,790	105,640	123,000	135,590	127,740	130,740	126,880	114,730
27	65,950	68,460	71,600	83,440	95,170	106,050	123,710	135,340	127,940	130,950	126,810	114,700
28	66,070	68,510	71,850	83,700	95,530	106,490	124,560	135,170	128,260	130,880	126,780	114,730
29	66,240	68,560	72,210	84,170	95,890	106,800	125,580	135,100	128,770	130,570	126,740	114,820
30	66,420	68,610	72,570	84,590	---	107,020	126,740	135,030	128,940	130,640	126,640	114,790
31	66,630	---	72,930	84,960	---	107,270	---	134,960	---	130,740	126,640	---
MAX	66,630	68,610	72,930	84,960	95,890	107,270	126,740	136,610	134,820	130,950	131,750	127,290
MIN	65,040	66,860	68,660	73,350	85,350	96,280	107,490	127,910	127,600	128,810	126,640	114,700
(+)	6,184.15	6,184.95	6,186.65	6,191.09	6,194.86	6,198.58	6,204.55	6,206.92	6,205.19	6,205.71	6,204.52	6,200.95
(++)	+1,590	+1,980	+4,320	+12,030	+10,930	+11,380	+19,470	+8,220	-6,020	+1,800	-4,100	-11,850

CAL YR 2003 MAX 73,060 MIN 41,810 (++) +29,190
WTR YR 2004 MAX 136,610 MIN 65,040 (++) +49,750

(+) 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 ¼ SE ¼ 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 probably is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to current year (monthly discharge only, October 1961).

REVISED RECORDS.--WDR-NM-90: 1989.

GAGE.--Water-stage recorder with satellite telemetry. Concrete control since Jan. 25, 1966. Elevation of gage is 6,040 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Jan. 25, 1966, at datum 1.60 ft lower.

REMARKS.--Records good except for those estimated, which are fair. Flow regulated by El Vado Reservoir (station 08285000) 46.4 mi upstream and Abiquiu Reservoir (station 08286900) 0.8 mi upstream since Feb. 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 were made during the year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	287	82	106	29	55	88	152	417	278	77	537	378
2	252	100	107	29	70	87	154	564	203	118	464	344
3	226	102	106	29	52	87	154	724	232	192	374	345
4	226	108	106	29	43	88	154	868	317	331	309	347
5	194	115	105	28	44	88	154	1,020	357	460	197	e413
6	145	118	104	28	51	88	155	1,180	358	563	65	e479
7	121	118	104	29	59	88	154	1,190	357	626	43	492
8	90	118	102	30	59	87	156	1,260	356	646	312	576
9	86	119	99	30	54	87	156	1,330	324	649	550	633
10	80	119	99	30	54	87	156	1,410	271	653	576	631
11	78	120	106	29	47	e87	156	1,500	245	652	624	631
12	95	119	103	28	48	e88	157	1,490	245	658	715	649
13	105	118	104	27	49	e87	156	1,560	321	656	767	655
14	106	117	104	28	49	e87	157	1,680	405	655	768	662
15	106	117	105	33	48	88	158	1,730	398	653	592	660
16	103	117	104	43	49	87	217	1,570	398	619	380	658
17	126	119	104	43	48	87	416	1,310	398	581	314	655
18	135	116	104	43	47	88	505	1,210	486	643	389	655
19	134	118	143	43	48	88	505	1,040	562	687	480	532
20	151	118	192	44	48	87	395	907	632	652	570	384
21	170	118	193	43	49	87	199	843	606	660	600	297
22	169	116	221	43	49	88	242	798	535	680	537	353
23	168	118	271	44	53	88	305	798	446	547	500	398
24	168	112	250	44	54	89	307	799	400	319	499	339
25	168	106	213	43	53	89	307	716	456	105	553	287
26	168	106	176	44	52	88	277	655	500	63	521	289
27	144	106	181	46	69	89	254	541	470	63	460	290
28	106	107	82	46	87	88	255	363	446	144	457	290
29	83	106	29	44	88	88	256	348	280	260	458	293
30	83	105	29	49	---	127	260	404	78	416	461	295
31	60	---	29	53	---	151	---	402	---	601	430	---
TOTAL	4,333	3,378	3,881	1,151	1,576	2,821	7,029	30,627	11,360	14,629	14,502	13,910
MEAN	140	113	125	37.1	54.3	91.0	234	988	379	472	468	464
MAX	287	120	271	53	88	151	505	1,730	632	687	768	662
MIN	60	82	29	27	43	87	152	348	78	63	43	287
AC-FT	8,590	6,700	7,700	2,280	3,130	5,600	13,940	60,750	22,530	29,020	28,760	27,590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2004, BY WATER YEAR (WY)

MEAN	297	264	270	167	216	379	810	1,160	1,034	662	511	450
MAX	1,261	1,181	1,308	860	1,708	1,668	1,894	2,055	2,418	1,488	1,135	1,199
(WY)	(1988)	(1980)	(1976)	(1986)	(1987)	(1987)	(1985)	(1983)	(1984)	(1973)	(2000)	(1987)
MIN	44.9	42.2	43.8	35.7	27.1	50.6	111	170	184	201	98.4	64.4
(WY)	(1979)	(2002)	(2002)	(1978)	(2002)	(2001)	(1977)	(2001)	(1976)	(1972)	(1979)	(1972)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1971 - 2004	
ANNUAL TOTAL	112,207		109,197			
ANNUAL MEAN	307		298		a519	
HIGHEST ANNUAL MEAN					872	1987
LOWEST ANNUAL MEAN					213	1972
HIGHEST DAILY MEAN	1,210	May 14	1,730	May 15	2,660	May 15, 1985
LOWEST DAILY MEAN	29	Dec 29	27	Jan 13	10	Sep 19, 1972
ANNUAL SEVEN-DAY MINIMUM	37	Jan 18	29	Dec 31	21	Sep 30, 1972
MAXIMUM PEAK FLOW			1,860	May 15		
MAXIMUM PEAK STAGE			4.83	May 15		
ANNUAL RUNOFF (AC-FT)	222,600		216,600		376,200	
10 PERCENT EXCEEDS	820		655		1,480	
50 PERCENT EXCEEDS	200		156		300	
90 PERCENT EXCEEDS	37		47		51	

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.
e Estimated

08287000 RIO CHAMA BELOW ABIQUIU DAM, NM

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1969 to December 1974, April to September 2004.

INSTRUMENTATION.--Specific conductance since April 2004. Hourly data logged.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,220 microsiemens, July 24, 1970; minimum daily, 146 microsiemens, May 28, 1970.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 400 microsiemens, Apr. 16, 18; minimum daily, 270 microsiemens, Sept. 14.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	386	380	382
2	---	---	---	---	---	---	---	---	---	386	380	383
3	---	---	---	---	---	---	388	374	381	387	380	384
4	---	---	---	---	---	---	388	378	381	390	380	384
5	---	---	---	---	---	---	---	---	---	388	380	384
6	---	---	---	---	---	---	392	379	383	384	372	380
7	---	---	---	---	---	---	390	380	384	378	359	371
8	---	---	---	---	---	---	390	380	385	369	356	362
9	---	---	---	---	---	---	389	382	385	363	351	359
10	---	---	---	---	---	---	---	---	---	360	343	351
11	---	---	---	---	---	---	397	382	388	365	345	351
12	---	---	---	---	---	---	399	384	389	363	343	353
13	---	---	---	---	---	---	396	385	389	368	349	356
14	---	---	---	---	---	---	396	386	389	365	355	360
15	---	---	---	---	---	---	397	387	390	362	351	356
16	---	---	---	---	---	---	400	386	391	356	347	351
17	---	---	---	---	---	---	398	386	390	356	342	348
18	---	---	---	---	---	---	400	387	391	344	324	337
19	---	---	---	---	---	---	398	388	391	333	302	318
20	---	---	---	---	---	---	---	---	---	314	292	299
21	---	---	---	---	---	---	378	367	371	306	287	295
22	---	---	---	---	---	---	378	367	372	299	286	291
23	---	---	---	---	---	---	377	370	373	302	288	294
24	---	---	---	---	---	---	379	371	375	304	293	298
25	---	---	---	---	---	---	379	370	375	300	288	293
26	---	---	---	---	---	---	384	373	378	303	291	297
27	---	---	---	---	---	---	383	375	379	307	291	299
28	---	---	---	---	---	---	384	376	380	304	296	300
29	---	---	---	---	---	---	385	379	381	311	295	302
30	---	---	---	---	---	---	387	380	382	308	293	303
31	---	---	---	---	---	---	---	---	---	315	303	308
MONTH	---	---	---	---	---	---	400	367	383	390	286	337

08287000 RIO CHAMA BELOW ABIQUIU DAM, NM

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	317	304	310	---	---	---	---	---	---	284	280	282
2	318	306	312	---	---	---	---	---	---	297	282	291
3	319	311	314	---	---	---	---	---	---	295	292	293
4	317	308	313	322	316	319	296	279	286	---	---	---
5	317	309	312	321	316	319	290	279	284	---	---	---
6	314	308	311	331	318	321	308	283	294	---	---	---
7	317	308	312	324	318	321	308	292	298	287	280	284
8	317	309	312	325	319	322	296	282	289	284	279	282
9	322	310	317	328	321	325	286	280	283	281	278	280
10	321	309	315	326	322	324	284	279	281	280	278	279
11	318	308	313	328	322	325	283	279	281	280	276	278
12	335	310	319	---	---	---	301	279	288	279	277	278
13	329	314	323	---	---	---	292	287	291	280	277	278
14	326	313	319	---	---	---	294	289	291	280	270	277
15	333	317	322	---	---	---	293	289	291	278	271	274
16	337	309	322	---	---	---	296	279	288	---	---	---
17	---	---	---	---	---	---	283	279	281	---	---	---
18	331	310	319	---	---	---	282	279	280	---	---	---
19	330	312	322	---	---	---	282	279	281	---	---	---
20	---	---	---	---	---	---	283	279	280	---	---	---
21	---	---	---	---	---	---	281	278	280	---	---	---
22	308	302	305	---	---	---	283	279	281	281	277	279
23	314	303	307	---	---	---	283	279	280	294	280	286
24	324	305	311	---	---	---	282	279	280	306	285	302
25	---	---	---	---	---	---	282	277	279	306	304	305
26	321	309	313	---	---	---	281	276	279	305	302	304
27	314	309	312	---	---	---	281	277	278	302	300	301
28	314	310	313	---	---	---	280	276	278	301	298	300
29	---	---	---	---	---	---	282	278	280	301	298	299
30	---	---	---	---	---	---	281	278	280	300	298	299
31	---	---	---	---	---	---	283	278	281	---	---	---
MONTH	337	302	314	331	316	322	308	276	284	306	270	288
YEAR	400	270	322									

08289000 RIO OJO CALIENTE AT LA MADERA, NM

LOCATION.--Lat 36°20'59", long 106°02'37", in NW ¼ NE ¼ sec.1, T.24 N., R.8 E., Rio Arriba County, Hydrologic Unit 13020102, on left bank 400 ft upstream from bridge on State Highway 554, 2.4 mi south of La Madera, 2.6 mi downstream from confluence of Rio Vallecitos and Rio Tusas, 3.1 mi north of Ojo Caliente, and at mile 19.9.

DRAINAGE AREA.--419 mi^2.

PERIOD OF RECORD.--April 1932 to current year.

REVISED RECORDS.--WSP 1712: 1959.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,358.84 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 23, 1934, at site about 2.6 mi upstream at different datum. Apr. 23, 1934, to Apr. 21, 1936, at datum 12.58 ft lower and Apr. 22, 1936, to Oct. 26, 1956, at datum 13.84 ft lower, both at site 1,400 ft downstream.

REMARKS.--Records good except for those estimated, which are poor. Diversions upstream from station for irrigation of about 3,500 acres (1962 determination). Several observations of water temperature were made during the year.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	9.8	19	17	18	20	265	231	14	7.2	4.7	4.5
2	6.5	10	19	18	16	22	323	221	13	6.7	4.6	4.4
3	7.0	10	17	19	17	22	278	279	9.4	6.3	4.6	4.4
4	8.1	11	16	18	18	24	249	333	9.1	6.1	4.4	5.2
5	8.2	12	17	14	18	24	235	332	8.3	5.9	4.7	5.0
6	8.0	12	20	15	16	20	280	341	7.0	5.9	4.7	4.8
7	10	12	17	18	16	23	306	334	6.6	5.6	4.3	4.9
8	10	13	22	19	18	26	399	315	6.0	5.4	4.1	4.7
9	9.3	15	19	18	16	30	438	257	6.0	5.4	4.3	4.6
10	8.7	14	14	18	16	36	344	239	5.6	5.6	4.3	4.6
11	9.2	15	14	18	16	41	320	211	5.6	5.5	4.2	4.5
12	8.1	16	21	18	15	46	325	193	5.7	5.6	4.2	4.6
13	8.1	22	16	18	18	49	349	143	5.6	5.1	4.1	4.7
14	7.7	20	17	18	17	50	351	112	6.0	5.1	4.4	4.5
15	7.9	21	20	18	18	62	317	103	5.5	4.8	7.9	4.2
16	8.4	20	15	20	18	67	320	93	5.5	4.8	5.5	4.3
17	7.9	20	14	20	18	66	338	81	5.3	4.6	4.2	4.1
18	7.7	19	17	18	20	72	343	75	4.9	4.8	4.0	4.1
19	7.5	16	18	16	21	83	287	71	4.7	4.8	6.7	5.2
20	7.2	17	18	19	22	103	275	63	4.7	4.9	7.5	4.9
21	7.2	18	18	19	21	124	262	61	4.5	4.7	7.2	4.8
22	7.5	21	18	16	21	158	214	51	4.6	4.6	6.5	4.8
23	7.6	15	16	16	22	189	203	36	4.5	5.4	5.9	4.9
24	7.8	12	16	18	22	264	193	35	4.2	4.9	5.4	4.9
25	7.4	16	16	19	23	338	192	32	4.5	4.9	5.3	5.0
26	7.9	18	18	16	21	355	174	30	6.3	4.7	5.3	5.0
27	8.6	17	16	15	22	357	245	24	5.3	4.6	4.9	5.0
28	8.9	14	12	16	26	233	323	21	6.4	5.0	4.7	5.0
29	9.2	16	13	18	20	195	315	21	e8.0	5.3	4.5	5.4
30	9.6	18	15	18	---	196	315	18	e7.2	5.3	4.5	5.5
31	9.9	---	16	18	---	218	---	17	---	5.0	4.6	---
TOTAL	253.2	469.8	524	546	550	3,513	8,778	4,373	194.0	164.5	156.2	142.5
MEAN	8.17	15.7	16.9	17.6	19.0	113	293	141	6.47	5.31	5.04	4.75
MAX	10	22	22	20	26	357	438	341	14	7.2	7.9	5.5
MIN	6.1	9.8	12	14	15	20	174	17	4.2	4.6	4.0	4.1
AC-FT	502	932	1,040	1,080	1,090	6,970	17,410	8,670	385	326	310	283

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2004, BY WATER YEAR (WY)

MEAN	14.5	18.2	17.8	18.5	22.9	58.8	274	313	49.4	9.77	13.9	10.7
MAX	57.5	49.2	36.0	33.5	55.5	211	979	1,256	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	21.0	6.54	5.09	2.64	3.13	2.30
(WY)	(1957)	(1957)	(1957)	(1964)	(1955)	(1981)	(2002)	(2002)	(1954)	(1951)	(1956)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1933 - 2004	
ANNUAL TOTAL	14,774.4		19,664.2			
ANNUAL MEAN	40.5		53.7		68.5	
HIGHEST ANNUAL MEAN					205	1941
LOWEST ANNUAL MEAN					11.3	2002
HIGHEST DAILY MEAN	441	Apr 28	438	Apr 9	2,180	Apr 23, 1942
LOWEST DAILY MEAN	1.8	Aug 21	4.0	Aug 18	0.60	Aug 18, 1956
ANNUAL SEVEN-DAY MINIMUM	2.3	Aug 12	4.2	Aug 7	1.1	Oct 1, 1956
MAXIMUM PEAK FLOW			547	Apr 9	3,640	Aug 14, 1994
MAXIMUM PEAK STAGE			4.96	Apr 9	8.27	Aug 14, 1994
INSTANTANEOUS LOW FLOW			3.5	Aug 8	0.20	Aug 17, 1956
ANNUAL RUNOFF (AC-FT)	29,310		39,000		49,640	
10 PERCENT EXCEEDS	107		236		166	
50 PERCENT EXCEEDS	17		16		17	
90 PERCENT EXCEEDS	4.2		4.7		5.3	

e Estimated

08290000 RIO CHAMA NEAR CHAMITA, NM

LOCATION.--Lat 36°04'26", long 106°06'40", in NE ¼ NE ¼ 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 probably is 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 fair except for those estimated, which are poor. Diversions upstream from station for irrigation of about 27,600 acres. Chamita ditch (station 08289500), on left bank, and Hernandez ditch (station 08289800), on right bank, bypass gage for irrigation of several hundred acres downstream from station. Flow regulated by El Vado Reservoir (station 08285000) 74.9 mi upstream since Jan. 1935 and Abiquiu Reservoir (station 08286900) 29.3 mi upstream since Feb. 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251	59	114	79	e72	105	337	558	388	62	504	376
2	236	87	116	63	e70	105	416	791	174	57	379	311
3	196	100	116	62	e69	107	481	901	142	80	347	302
4	267	113	115	62	e65	112	405	1,300	203	152	222	321
5	215	119	115	e65	e63	109	374	1,340	326	408	216	337
6	143	117	121	e64	e65	104	387	1,680	319	543	90	320
7	116	114	108	e62	e70	105	430	1,660	325	647	50	438
8	115	113	106	e64	e81	105	528	1,720	318	690	50	474
9	90	112	116	60	e73	108	650	1,530	307	677	443	589
10	82	114	95	59	e75	113	543	1,540	249	675	514	583
11	79	115	96	59	e76	116	571	1,670	188	686	556	574
12	82	119	108	60	e73	120	532	1,770	173	699	630	576
13	100	140	102	59	e68	122	560	1,750	171	687	717	591
14	103	150	103	58	e75	124	629	1,900	393	671	875	596
15	111	146	104	60	e76	129	576	1,900	413	664	753	586
16	105	147	107	64	e72	137	564	1,860	427	645	470	588
17	103	143	135	73	e71	139	737	1,510	386	590	320	590
18	118	143	138	70	76	144	953	1,350	374	611	292	598
19	121	144	128	70	77	153	921	1,240	511	684	444	579
20	117	144	e210	72	76	160	821	1,000	547	663	549	441
21	141	142	e220	75	80	176	499	975	599	606	636	283
22	153	142	e222	70	78	200	437	891	551	653	593	280
23	165	138	e275	69	78	227	528	863	497	620	493	371
24	168	150	e260	73	84	279	530	848	384	460	466	368
25	154	125	e228	e71	84	363	497	818	387	233	471	292
26	143	125	e202	e60	80	388	516	716	510	83	512	299
27	145	124	e204	e66	80	382	492	689	508	63	442	277
28	118	126	e198	e72	98	275	544	476	456	58	447	269
29	84	126	106	e70	104	226	578	314	431	126	442	315
30	70	119	76	74	---	217	519	412	135	227	430	333
31	74	---	69	74	---	282	---	421	---	516	427	---
TOTAL	4,165	3,756	4,413	2,059	2,209	5,432	16,555	36,393	10,792	14,236	13,780	12,857
MEAN	134	125	142	66.4	76.2	175	552	1,174	360	459	445	429
MAX	267	150	275	79	104	388	953	1,900	599	699	875	598
MIN	70	59	69	58	63	104	337	314	135	57	50	269
AC-FT	8,260	7,450	8,750	4,080	4,380	10,770	32,840	72,190	21,410	28,240	27,330	25,500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2004, BY WATER YEAR (WY)

MEAN	310	290	301	206	256	445	1,048	1,474	1,028	627	492	439
MAX	1,273	1,224	1,291	876	1,677	1,705	2,534	2,741	2,346	1,477	1,114	1,164
(WY)	(1988)	(1980)	(1976)	(1986)	(1987)	(1987)	(1985)	(1983)	(1984)	(1983)	(2000)	(1987)
MIN	37.3	51.4	63.4	63.5	56.1	85.1	120	204	117	170	95.5	83.1
(WY)	(1979)	(2002)	(2003)	(1975)	(2002)	(1977)	(1977)	(1972)	(1976)	(1972)	(1979)	(1974)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1971 - 2004	
ANNUAL TOTAL	113,934		126,647			
ANNUAL MEAN	312		346		a577	
HIGHEST ANNUAL MEAN					923	1987
LOWEST ANNUAL MEAN					234	1972
HIGHEST DAILY MEAN	1,250	May 14	1,900	May 14	3,570	May 5, 1985
LOWEST DAILY MEAN	59	Nov 1	50	Aug 7	1.2	Sep 16, 1971
ANNUAL SEVEN-DAY MINIMUM	65	Feb 4	59	Jan 9	1.7	Sep 10, 1971
MAXIMUM PEAK FLOW			2,040	May 15	b15,000	May 22, 1920
MAXIMUM PEAK STAGE			5.95	May 15	c11.68	Sep 1, 1994
INSTANTANEOUS LOW FLOW			33	Aug 8	1.2	Sep 16, 1971
ANNUAL RUNOFF (AC-FT)	226,000		251,200		418,300	
10 PERCENT EXCEEDS	731		686		1,610	
50 PERCENT EXCEEDS	215		212		327	
90 PERCENT EXCEEDS	70		70		75	

08290000 RIO CHAMA NEAR CHAMITA, NM—Continued

a Average discharge for 58 years (water years 1913-70), 541 ft^3/s, 392,000 acre-ft/yr, prior to release of transmountain water.
b From rating curve extended above 2,000 ft^3/s.
c From floodmarks of slope-area measurement of peak flow.
e Estimated

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 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
FEB													
24...	1340	87	616	10.8	113	8.2	476	8.0	8.0	180	51.7	11.2	3.11
APR													
27...	1350	521	624	8.2	100	8.0	288	22.0	15.0	110	33.0	5.94	2.00
JUL													
23...	1330	648	623	7.6	98	8.2	305	20.0	17.5	130	40.1	6.61	1.95

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
FEB													
24...	1	31.9	149	179	13.9	.4	18.8	81.9	301	314	.19	.32	<.04
APR													
27...	.7	15.6	82	99	5.44	.2	15.4	50.7	177	194	.30	.60	<.01
JUL													
23...	.5	13.8	81	97	2.87	<.2	14.1	59.1	186	199	.22	.33	<.04

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)
FEB													
24...	--	<.06	<.008	E.01	.011	.056	E19	32	M	E.17	3	71	<.06
APR													
27...	.02	.05	.010	<.01	<.02	.14	110	E160	7	E.12	E1	54	<.06
JUL													
23...	--	E.04	<.008	<.02	.011	.061	E53	E27	E1	E.13	E1	57	<.06

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recoverable, ug/L (71900)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd ug/L (01147)
FEB													
24...	64	<.04	<.8	.208	1.2	E3	<.08	14.5	<.02	2.0	2.47	<3	<3
APR													
27...	27	<.04	<.8	.171	1.1	13	<.08	8.0	<.02	1.2	1.06	<3	<3
JUL													
23...	21	<.04	<.8	.154	1.5	<6	<.08	1.9	--	2.2	1.23	<3	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
FEB					
24...	<.2	<.6	4.63	40	95
APR					
27...	<.2	<.6	1.67	6	1,710
JUL					
23...	<.2	E.4	.78	45	108

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

08291000 SANTA CRUZ RIVER AT CUNDIYO, NM

LOCATION.--Lat 35°57'53", long 105°54'14", in SE ¼ NW ¼ 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."

REVISED RECORDS.--WSP 1392: 1931(M), 1932-33, 1934-39(M), 1942, 1943(M).

GAGE.--Water-stage recorder with satellite telemetry. Concrete control since Jan. 3, 1954. Elevation of gage is 6,460 ft above National Geodetic Vertical Datum of 1929, from topographic map. July 1, 1931, to Aug. 12, 1932, water-stage recorder at site about 1 mi downstream at different datum. Aug. 13, 1932, to Oct. 29, 1934, water-stage recorder at site 35 ft upstream at datum 0.42 ft higher. Oct. 30, 1934, to Jan. 2, 1954, water-stage recorder at present site at datum 0.64 ft lower.

REMARKS.--Records fair except for those estimated, which are poor. Diversions for irrigation of about 1,000 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	9.7	e8.1	e4.1	5.2	5.3	24	21	52	19	10	7.3
2	9.1	9.9	9.3	4.4	e4.6	5.2	30	20	52	17	10	7.0
3	11	9.7	e7.7	4.4	e5.4	5.4	41	22	50	16	11	7.2
4	17	9.1	e7.7	e3.8	6.0	5.7	40	27	49	14	8.6	8.5
5	13	7.4	e7.3	e3.0	6.3	5.2	36	37	48	14	10	11
6	11	8.0	e6.8	e4.1	e3.7	5.6	36	45	45	14	11	8.7
7	11	9.8	e8.1	e6.9	e4.0	6.6	36	60	43	14	10	7.9
8	14	9.2	9.7	6.0	e4.3	8.1	72	68	42	13	9.3	7.8
9	11	8.7	9.1	e3.7	e4.0	11	108	68	e39	14	9.9	7.1
10	12	9.1	e7.9	e4.3	e3.8	13	88	69	e37	13	9.1	6.2
11	14	9.3	e5.7	e4.6	e3.8	14	75	73	34	12	9.7	6.4
12	11	9.2	6.2	5.4	e3.6	14	63	93	31	13	8.8	5.9
13	10	10	e6.4	e4.6	e3.2	14	56	90	29	13	8.7	5.8
14	10	11	e5.3	e5.0	e3.4	17	54	81	29	14	8.6	6.7
15	10	8.8	e4.8	5.4	e3.8	19	55	75	27	13	11	6.0
16	10	7.0	e4.0	5.9	e4.0	20	57	70	26	13	8.8	5.4
17	10	10	e4.4	5.7	e4.6	20	58	69	24	12	7.6	5.0
18	9.9	5.9	e4.5	e4.3	5.5	22	65	65	23	12	7.9	5.1
19	9.9	8.2	e4.3	e4.6	5.3	25	59	68	22	13	8.7	19
20	9.9	11	e5.0	6.4	5.3	28	52	88	21	13	13	22
21	10	10	e4.3	5.8	5.0	32	45	101	19	13	9.8	10
22	9.6	9.6	4.8	e5.0	5.2	33	38	104	20	13	9.9	8.3
23	9.6	e6.4	e3.7	e3.3	5.4	31	34	92	20	22	9.4	7.9
24	9.6	e6.1	e3.6	e3.7	5.1	35	29	86	18	23	8.7	8.0
25	9.7	8.8	e3.7	5.8	5.2	39	25	81	18	35	8.8	7.9
26	9.1	11	4.7	e4.0	5.3	40	22	74	18	18	7.8	9.4
27	10	e7.0	e3.7	e3.7	5.3	40	21	72	17	15	7.0	10
28	10	e8.0	e3.4	e3.5	5.3	32	22	65	17	14	7.3	9.6
29	9.9	e9.0	e3.0	e4.6	6.2	26	23	64	18	13	7.4	9.8
30	9.8	e8.5	e3.2	e4.6	---	24	26	62	32	11	6.2	11
31	9.8	---	e3.6	e4.3	---	23	---	57	---	11	7.0	---
TOTAL	330.0	265.4	174.0	144.9	137.8	619.1	1,390	2,067	920	464	281.0	257.9
MEAN	10.6	8.85	5.61	4.67	4.75	20.0	46.3	66.7	30.7	15.0	9.06	8.60
MAX	17	11	9.7	6.9	6.3	40	108	104	52	35	13	22
MIN	9.1	5.9	3.0	3.0	3.2	5.2	21	20	17	11	6.2	5.0
AC-FT	655	526	345	287	273	1,230	2,760	4,100	1,820	920	557	512

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2004, BY WATER YEAR (WY)

MEAN	15.2	12.2	10.3	9.25	10.0	20.0	49.8	96.3	74.5	27.7	25.5	18.9
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	3.59	4.19	6.97	13.2	7.42	5.55	5.64	4.57	2.47
(WY)	(1957)	(1957)	(1951)	(2003)	(2003)	(1981)	(1951)	(2002)	(2002)	(1956)	(1956)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1933 - 2004	
ANNUAL TOTAL	7,336.4		7,051.1			
ANNUAL MEAN	20.1		19.3		30.9	
HIGHEST ANNUAL MEAN					75.2	1941
LOWEST ANNUAL MEAN					8.93	1950
HIGHEST DAILY MEAN	104	May 18	108	Apr 9	623	Jun 9, 1979
LOWEST DAILY MEAN	3.0	Dec 29	3.0	Dec 29	1.1	Dec 3, 1950
ANNUAL SEVEN-DAY MINIMUM	3.4	Jan 12	3.6	Dec 24	2.2	Sep 11, 1956
MAXIMUM PEAK FLOW			131	Apr 9	2,420	Sep 24, 1931
MAXIMUM PEAK STAGE			2.53	Apr 9	7.80	Sep 24, 1931
INSTANTANEOUS LOW FLOW					0.19	Mar 13, 1954
ANNUAL RUNOFF (AC-FT)	14,550		13,990		22,370	
10 PERCENT EXCEEDS	51		54		74	
50 PERCENT EXCEEDS	11		9.9		14	
90 PERCENT EXCEEDS	3.7		4.4		7.5	

e Estimated

08294195 RIO NAMBE ABOVE NAMBE FALLS DAM NEAR NAMBE, NM

LOCATION.--Lat 35°51'00", long 105°53'40", in NE ¼ SW ¼ sec.29, T.19 N., R.10 E., Santa Fe County, Hydrologic Unit 13020101, on Nambe Indian Reservation, 0.6 mi upstream from Nambe Falls, 3.4 mi upstream from Rio En Medio, 5.0 mi southeast of Nambe Pueblo, and 6.0 mi southeast of Nambe.

DRAINAGE AREA.--25 mi^2, approximately.

PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,885 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	3.6	e3.4	4.4	3.3	3.8	7.3	12	19	8.1	5.8	4.2
2	4.6	3.6	3.2	3.8	e3.1	2.7	8.8	12	19	7.4	5.7	4.0
3	5.9	3.4	e3.0	3.4	e3.3	2.8	10	14	19	7.0	5.9	3.8
4	8.3	e3.3	e2.8	3.4	3.0	2.9	e10	17	21	6.7	5.4	6.7
5	6.6	e3.1	e2.9	e3.2	3.0	2.9	9.2	18	21	6.6	5.7	e8.2
6	5.8	e3.2	e2.9	e3.0	3.0	4.3	8.9	18	21	6.5	5.3	7.2
7	5.3	3.3	2.9	e3.9	e3.0	3.1	12	20	19	6.3	4.9	e6.7
8	6.1	3.4	3.0	3.5	2.9	3.8	17	21	19	5.8	4.7	8.0
9	5.0	3.3	e3.2	3.3	e3.2	4.4	16	e21	17	5.5	4.5	8.6
10	4.8	3.3	e3.1	3.3	e2.7	4.7	22	24	16	5.5	4.2	e6.0
11	5.8	3.4	e3.3	3.3	2.7	4.9	29	25	14	5.9	4.3	e4.1
12	5.0	3.4	e3.5	3.4	2.6	5.0	25	31	13	5.8	3.9	e4.0
13	4.8	3.8	e3.1	3.3	e2.3	5.3	24	27	12	5.5	3.9	e3.6
14	4.6	4.4	e3.1	3.3	e2.0	5.8	19	22	11	6.2	4.0	e3.2
15	4.5	3.5	e3.0	3.4	1.8	5.9	22	21	10	6.8	5.8	3.6
16	4.2	3.0	e2.9	3.6	1.8	6.0	e20	22	11	5.5	7.6	3.6
17	4.2	3.6	e3.1	3.4	e2.5	6.1	e12	22	9.8	4.5	e4.1	3.6
18	4.3	e3.1	e3.8	3.1	2.8	6.9	17	24	9.3	5.0	4.4	3.6
19	4.3	e3.6	e3.4	e3.5	2.8	7.5	e13	31	8.0	4.8	5.3	12
20	4.1	3.8	e3.0	3.4	2.7	8.1	15	35	6.9	4.3	3.0	5.2
21	4.1	3.5	3.2	3.2	2.7	9.1	14	26	6.6	5.0	5.2	e4.5
22	3.9	3.3	3.3	e3.7	2.7	9.0	14	27	7.2	4.9	13	e4.6
23	3.9	e3.7	e3.2	e3.5	2.5	9.2	16	23	8.2	12	6.1	e4.7
24	3.7	e16	3.3	e3.6	2.7	9.4	15	19	7.5	11	4.9	4.6
25	3.6	e6.5	3.2	3.2	2.7	8.7	13	e19	7.6	9.4	3.8	4.7
26	3.4	e4.5	3.2	e3.2	e2.9	8.7	12	e23	7.3	6.6	4.1	5.1
27	3.7	e3.8	e3.2	e3.1	2.7	8.4	12	22	7.2	8.1	4.0	5.3
28	3.7	e3.3	e3.1	e3.3	2.8	7.1	e13	21	7.2	6.7	3.9	5.2
29	3.6	e3.1	e2.9	e3.5	e3.9	e7.1	e13	21	7.9	6.3	4.0	5.7
30	3.4	e3.1	e3.2	3.3	---	7.0	13	21	13	6.0	4.0	5.8
31	3.4	---	3.5	3.2	---	7.1	---	20	---	6.1	4.3	---
TOTAL	143.1	119.9	97.9	105.7	80.1	187.7	452.2	679	375.7	201.8	155.7	160.1
MEAN	4.62	4.00	3.16	3.41	2.76	6.05	15.1	21.9	12.5	6.51	5.02	5.34
MAX	8.3	16	3.8	4.4	3.9	9.4	29	35	21	12	13	12
MIN	3.4	3.0	2.8	3.0	1.8	2.7	7.3	12	6.6	4.3	3.0	3.2
AC-FT	284	238	194	210	159	372	897	1,350	745	400	309	318

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

MEAN	3.92	3.88	3.21	2.77	2.33	4.63	9.81	17.5	11.1	5.08	4.65	5.08
MAX	4.62	4.00	3.82	3.41	2.76	6.05	15.1	27.7	19.9	6.51	6.38	6.48
(WY)	(2004)	(2002)	(2002)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2004)	(2003)	(2003)
MIN	3.43	3.63	2.64	2.23	1.86	3.38	4.32	2.92	0.98	2.61	2.55	3.42
(WY)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004	
ANNUAL TOTAL	2,972.8		2,758.9			
ANNUAL MEAN	8.14		7.54		6.18	
HIGHEST ANNUAL MEAN					7.97	2003
LOWEST ANNUAL MEAN					3.03	2002
HIGHEST DAILY MEAN	48	May 25	35	May 20	48	May 25, 2003
LOWEST DAILY MEAN	1.7	Jan 28	1.8	Feb 15	0.00	Jun 19, 2002
ANNUAL SEVEN-DAY MINIMUM	1.9	Jan 28	2.2	Feb 11	0.18	Jun 24, 2002
MAXIMUM PEAK FLOW			56	Nov 25	a390	Aug 10, 2003
MAXIMUM PEAK STAGE			1.09	Nov 25	4.30	Aug 10, 2003
INSTANTANEOUS LOW FLOW			0.81	Feb 16	0.00	Jun 18, 2002
ANNUAL RUNOFF (AC-FT)	5,900		5,470		4,480	
10 PERCENT EXCEEDS	16		19		14	
50 PERCENT EXCEEDS	4.9		4.7		3.7	
90 PERCENT EXCEEDS	2.4		3.0		2.1	

a From rating curve extended above 50 ft^3/s, on basis of slope-area measurement of peak flow.
e Estimated

08294200 NAMBE FALLS RESERVOIR NEAR NAMBE, NM

LOCATION.--Lat 35°50'46", long 105°54'17", in NE $^1/_4$ SW $^1/_4$, sec.29, T.19 N., R.10 E., Santa Fe County, Hydrologic Unit 13020101, on Nambe Indian Reservation, 300 ft upstream from Nambe Falls, 2.6 mi upstream from Rio En Medio, 4.4 mi southeast of Nambe Pueblo, and 5.4 mi southeast of Nambe.

DRAINAGE AREA.--34.1 mi^2.

PERIOD OF RECORD.--February 1976 to current year.

REVISED RECORDS.--WDR NM-77-1: drainage area.

GAGE.--Water-stage recorder with satellite telemetry. 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, 1,820 acre-ft, May 27-31, elevation, 6,823.00 ft; minimum, 449 acre-ft, Dec. 31, elevation, 6,784.76 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	927	953	1,020	e452	e576	e688	962	1,670	1,810	1,140	e574	e549
2	927	953	1,030	e455	e580	e693	983	1,670	1,810	1,100	e575	e545
3	930	952	1,030	e457	e584	e697	1,000	1,650	1,800	1,060	e577	e542
4	939	950	1,040	e463	e589	e701	1,020	1,640	1,800	1,020	e578	e538
5	941	949	1,040	e467	e593	705	1,040	1,630	1,800	979	e580	e534
6	943	948	1,050	e469	e598	709	1,060	1,630	1,800	938	e581	e531
7	945	947	1,050	e474	e602	713	1,080	1,630	1,800	900	e582	e527
8	950	946	1,060	e478	e607	718	1,110	1,630	1,790	861	e584	e523
9	951	946	1,040	e482	e611	723	1,140	1,630	1,780	816	e585	e519
10	953	945	1,000	e485	e616	729	1,170	1,640	1,770	777	e587	e516
11	956	944	970	e489	619	735	1,200	1,660	1,750	738	e588	e512
12	957	946	938	e493	623	741	1,230	1,670	1,720	e706	e590	e508
13	957	950	907	e496	e626	747	1,250	1,680	1,700	e677	e591	e505
14	958	954	875	e500	e630	754	1,270	1,690	1,670	e648	e593	e501
15	958	956	864	e504	e633	761	1,300	1,680	1,640	e619	e594	e502
16	958	957	852	e508	e636	767	1,330	1,690	1,610	e590	e595	e503
17	959	960	817	e512	e639	775	1,360	1,690	1,580	e589	e597	e504
18	959	964	785	e516	e642	783	1,390	1,700	1,550	e587	e598	e505
19	959	969	753	e520	e646	793	1,420	1,720	1,520	e585	e600	e505
20	959	976	723	e524	e649	805	1,450	1,730	1,490	e583	e601	e506
21	958	982	e690	e529	e653	817	1,470	1,750	1,460	e581	e603	e507
22	958	986	e663	e533	e656	830	1,490	1,770	1,420	e580	e598	e508
23	958	984	e633	e537	e660	844	1,520	1,790	1,390	e578	e593	e509
24	957	985	e605	e541	e664	859	1,530	1,800	1,360	e575	e588	e510
25	956	994	e579	e545	e668	875	1,550	1,810	1,330	e574	e583	e511
26	955	999	e553	e549	e672	890	1,570	1,810	1,290	e571	e578	e512
27	955	1,000	e527	e554	e677	906	1,590	1,820	1,260	e569	e574	e513
28	955	1,010	e503	e558	e681	918	1,610	1,820	1,220	e568	e568	e514
29	955	1,010	e479	e562	e685	929	1,630	1,820	1,190	e569	e563	e515
30	954	1,020	e456	e567	---	940	1,650	1,820	1,170	e571	e558	e516
31	953	---	e449	e571	---	951	---	1,820	---	e572	e553	---
MAX	959	1,020	1,060	571	685	951	1,650	1,820	1,810	1,140	603	549
MIN	927	944	449	452	576	688	962	1,630	1,170	568	553	501
(+)	6,803.51	6,805.32	e6,784.76	e6,790.25	e6,794.71	6,803.43	6,819.73	6,822.93	6,809.22	e6,790.28	e6,789.52	e6,787.89
(++)	+24	+67	-571	+122	+114	+266	+699	+170	-650	-598	-19	-37

CAL YR 2003 MAX 2,030 MIN 449 (++) -361
WTR YR 2004 MAX 1,820 MIN 449 (++) -413

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

08294210 RIO NAMBE BELOW NAMBE FALLS DAM, NEAR NAMBE, NM

LOCATION.--Lat 35°50'46", long 105°54'17", in NE ¼ SW ¼ 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 fair. Flow regulated by Nambe Falls Reservoir (station 08294200). Outlet conduits are one 6-in.- and two 12-in.-diameter pipes.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	4.3	1.1	1.1	1.1	1.2	0.98	1.2	21	23	6.9	e5.0
2	3.9	4.3	1.2	1.1	1.1	1.2	1.1	6.5	21	24	6.0	5.1
3	3.9	4.3	1.2	1.1	1.1	1.2	1.1	21	21	26	4.7	5.1
4	3.9	4.3	1.2	1.1	1.1	1.2	1.0	19	21	25	4.6	5.1
5	3.9	4.2	1.2	1.1	1.1	1.2	1.0	20	21	24	4.6	5.1
6	3.9	4.2	1.2	1.1	1.1	1.2	1.0	20	21	24	4.6	5.0
7	3.9	4.2	1.1	1.1	1.1	1.2	1.0	19	21	24	4.6	5.0
8	3.9	4.2	1.1	1.1	1.1	1.2	1.1	19	21	23	4.5	5.2
9	4.0	4.2	12	1.1	1.1	1.2	1.1	20	22	24	4.6	5.2
10	4.0	4.2	18	1.1	1.1	1.2	1.1	19	25	25	4.2	5.2
11	4.0	4.2	18	1.1	1.1	1.2	1.1	20	26	24	4.2	5.2
12	4.0	3.8	18	1.1	1.1	1.2	1.1	20	26	23	4.3	5.2
13	4.0	3.1	18	1.1	1.1	1.2	1.1	21	26	23	4.1	5.1
14	4.0	3.1	18	1.1	1.1	1.2	1.1	22	26	22	3.9	5.1
15	4.0	3.1	9.0	1.1	1.1	1.2	1.1	23	26	22	3.9	5.1
16	4.0	3.1	9.3	1.2	1.1	1.2	1.1	23	26	8.6	4.4	5.0
17	4.0	2.3	19	1.2	1.1	1.2	1.1	21	25	4.6	5.0	5.0
18	4.0	1.1	19	1.2	1.1	1.2	1.1	20	25	4.5	5.0	5.0
19	4.0	1.1	19	1.1	1.2	1.2	1.1	20	25	4.5	5.0	5.3
20	4.0	1.1	19	1.2	1.2	1.2	1.1	20	25	4.5	5.0	5.3
21	4.0	1.1	18	1.2	1.2	1.2	1.1	20	25	4.6	5.1	5.3
22	4.0	1.1	18	1.1	1.2	1.2	1.2	20	25	4.6	5.0	5.2
23	4.0	1.1	18	1.1	1.2	1.2	1.2	20	25	4.7	4.9	5.2
24	4.1	1.1	18	1.1	1.2	1.2	1.2	20	24	4.7	4.8	5.2
25	4.0	1.1	17	1.1	1.2	1.2	1.2	20	24	4.7	4.9	5.3
26	4.0	1.1	17	1.0	1.2	1.1	1.2	21	24	4.6	4.9	5.2
27	4.0	1.1	17	1.0	1.2	0.98	1.2	21	24	4.7	e4.9	5.3
28	4.0	1.1	16	1.1	1.2	0.96	1.2	21	23	4.7	e4.9	5.3
29	4.1	1.1	16	1.1	1.2	0.96	1.2	21	23	4.6	e5.0	5.2
30	4.2	1.1	15	1.1	---	0.97	1.2	21	23	5.4	e5.1	5.3
31	4.3	---	7.7	1.1	---	0.97	---	21	---	6.9	e5.0	---
TOTAL	125.1	79.4	383.3	34.4	33.0	35.94	33.38	600.7	711	436.9	148.6	154.8
MEAN	4.04	2.65	12.4	1.11	1.14	1.16	1.11	19.4	23.7	14.1	4.79	5.16
MAX	5.1	4.3	19	1.2	1.2	1.2	1.2	23	26	26	6.9	5.3
MIN	3.9	1.1	1.1	1.0	1.1	0.96	0.98	1.2	21	4.5	3.9	5.0
AC-FT	248	157	760	68	65	71	66	1,190	1,410	867	295	307

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2004, BY WATER YEAR (WY)

MEAN	6.86	4.09	2.61	2.00	2.72	5.33	14.8	36.0	42.6	21.1	15.1	11.4
MAX	19.5	11.9	12.4	5.29	7.68	17.4	42.3	85.4	125	48.4	51.9	45.4
(WY)	(1989)	(1987)	(2004)	(1992)	(1995)	(1985)	(1985)	(1985)	(1979)	(1983)	(1983)	(1988)
MIN	2.83	1.10	0.45	0.45	0.45	0.49	1.11	9.89	1.92	2.04	2.86	1.47
(WY)	(2003)	(1997)	(1980)	(1980)	(1980)	(1979)	(2004)	(1981)	(2002)	(2002)	(1989)	(1994)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1979 - 2004	
ANNUAL TOTAL	3,023.42		2,776.52			
ANNUAL MEAN	8.28		7.59		13.2	
HIGHEST ANNUAL MEAN					25.7	1985
LOWEST ANNUAL MEAN					3.46	2002
HIGHEST DAILY MEAN	36	Jul 8	26	Jun 11	a236	Jun 9, 1979
LOWEST DAILY MEAN	0.52	Apr 4	0.96	Mar 28	0.00	Dec 31, 1993
ANNUAL SEVEN-DAY MINIMUM	0.52	Apr 4	0.99	Mar 26	0.21	Nov 12, 1980
MAXIMUM PEAK FLOW			28	Jun 11		
MAXIMUM PEAK STAGE			1.04	Jun 11		
INSTANTANEOUS LOW FLOW			0.96	Mar 28		
ANNUAL RUNOFF (AC-FT)	6,000		5,510		9,570	
10 PERCENT EXCEEDS	20		22		34	
50 PERCENT EXCEEDS	4.2		4.2		6.1	
90 PERCENT EXCEEDS	0.60		1.1		0.58	

a At site 1,100 ft downstream (maximum release and spill computed at Nambe Falls Dam, 250 ft^3/s, June 9, 1979).
e Estimated

08302500 TESUQUE CREEK ABOVE DIVERSIONS NEAR SANTA FE, NM

LOCATION.--Lat 35°44'25", long 105°53'51", in SW ¼ SE ¼ sec.32, T.18 N., R.10 E., Santa Fe County, Hydrologic Unit 13020101, in Santa Fe National Forest, on left bank 0.30 mi from boundary, 1.0 mi southwest of Bishops Lodge, 1.1 mi to State Highway 22, and 10 mi northeast of Santa Fe.

DRAINAGE AREA.--12 mi^2.

PERIOD OF RECORD.--March 1936 to January 1952, May to October 1919 in report of State Engineer. October 1997 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 7,220 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.48	0.55	0.48	e0.20	0.43	0.53	1.3	3.6	4.4	1.6	0.68	0.46
2	0.50	0.55	0.42	e0.25	0.38	0.52	2.5	3.4	4.0	1.4	0.69	0.36
3	0.57	0.54	0.40	e0.35	0.37	0.55	3.9	3.4	3.8	1.3	0.73	0.32
4	0.92	0.55	e0.40	e0.35	0.37	0.57	3.2	3.5	4.0	1.2	0.66	0.42
5	0.67	0.51	0.42	0.38	0.35	0.55	2.6	3.9	3.9	1.0	0.68	0.53
6	0.57	0.53	0.41	e0.35	0.35	0.57	2.6	4.3	3.9	1.2	0.66	0.40
7	0.62	0.59	0.43	e0.30	0.35	0.65	2.6	4.8	4.0	1.2	0.65	0.35
8	0.89	0.55	0.42	0.26	0.35	0.95	4.0	5.4	3.9	1.2	0.61	0.32
9	0.63	0.53	e0.45	0.19	0.35	1.2	5.3	5.8	3.5	0.92	0.59	0.30
10	0.58	0.54	e0.50	0.40	0.36	1.4	5.6	6.4	3.4	0.93	0.59	0.28
11	0.68	0.60	0.56	0.47	0.35	1.3	4.4	6.6	3.3	1.1	0.59	0.28
12	0.61	0.60	0.46	0.52	0.35	1.1	3.9	7.1	3.1	1.1	0.58	0.25
13	0.57	0.71	0.44	0.39	0.32	1.0	3.6	7.3	3.0	1.1	0.55	0.26
14	0.56	0.71	0.42	0.37	0.33	1.1	4.3	7.1	2.7	1.1	0.56	0.27
15	0.57	0.52	0.41	0.34	0.34	1.1	4.7	6.8	2.6	1.0	0.67	0.26
16	0.56	0.43	e0.40	0.30	0.34	1.2	5.6	6.7	2.3	0.88	0.62	0.27
17	0.50	0.54	e0.52	0.34	0.37	1.3	6.4	6.5	2.2	0.68	0.56	0.26
18	0.50	0.38	0.53	0.34	0.48	1.5	6.7	6.5	2.2	0.79	0.58	0.27
19	0.46	0.50	0.53	0.40	0.52	1.7	6.4	6.3	2.1	0.83	0.58	2.7
20	0.46	0.52	0.58	0.41	0.40	1.9	5.7	5.4	2.1	0.75	0.67	e1.2
21	0.45	0.51	0.51	0.39	0.40	2.1	5.1	5.4	1.9	0.95	0.78	e0.46
22	0.47	0.50	0.34	0.37	0.43	2.1	4.6	5.6	1.9	0.97	0.70	0.39
23	0.49	e0.38	0.27	0.39	0.44	2.1	4.4	5.6	1.9	1.1	0.62	0.36
24	0.52	e0.40	0.26	0.39	0.47	1.9	3.8	5.6	1.9	1.1	0.52	0.35
25	0.53	e0.55	0.26	0.41	0.49	1.8	3.4	5.8	1.9	1.4	0.40	0.40
26	0.58	0.64	0.25	0.38	e0.50	1.8	3.2	5.9	1.8	1.6	0.36	0.44
27	0.65	0.48	0.22	0.38	0.54	1.8	3.3	5.7	1.7	2.4	0.34	0.44
28	0.64	e0.45	e0.37	0.40	0.55	1.5	3.5	5.3	2.0	1.5	0.34	0.53
29	0.59	0.44	e0.35	0.42	e0.55	1.4	3.7	5.1	1.8	1.0	0.33	0.76
30	0.58	0.51	e0.21	0.42	---	1.3	3.7	4.8	2.5	0.84	0.32	0.76
31	0.56	---	e0.25	0.43	---	1.3	---	4.6	---	0.69	0.36	---
TOTAL	17.96	15.81	12.47	11.29	11.83	39.79	124.0	170.2	83.7	34.83	17.57	14.65
MEAN	0.58	0.53	0.40	0.36	0.41	1.28	4.13	5.49	2.79	1.12	0.57	0.49
MAX	0.92	0.71	0.58	0.52	0.55	2.1	6.7	7.3	4.4	2.4	0.78	2.7
MIN	0.45	0.38	0.21	0.19	0.32	0.52	1.3	3.4	1.7	0.68	0.32	0.25
AC-FT	36	31	25	22	23	79	246	338	166	69	35	29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2004, BY WATER YEAR (WY)

MEAN	1.64	1.29	0.95	0.90	0.97	1.99	5.49	9.28	5.72	2.08	1.87	1.33
MAX	10.3	6.60	2.65	2.02	1.98	4.32	26.4	37.0	27.0	7.68	7.34	4.43
(WY)	(1942)	(1942)	(1942)	(1942)	(1942)	(1940)	(1942)	(1941)	(1941)	(1941)	(1999)	(1941)
MIN	0.28	0.39	0.31	0.31	0.41	0.42	0.75	0.30	0.05	0.24	0.06	0.26
(WY)	(2003)	(1951)	(2003)	(2003)	(2004)	(1951)	(1951)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1936 - 2004	
ANNUAL TOTAL	511.73		554.10			
ANNUAL MEAN	1.40		1.51		2.81	
HIGHEST ANNUAL MEAN					8.14	1941
LOWEST ANNUAL MEAN					0.48	2002
HIGHEST DAILY MEAN	8.7	Apr 30	7.3	May 13	72	Apr 23, 1942
LOWEST DAILY MEAN	0.18	Jan 11	0.19	Jan 9	0.00	Aug 25, 1950
ANNUAL SEVEN-DAY MINIMUM	0.20	Jan 10	0.26	Sep 12	0.00	Jun 26, 2002
MAXIMUM PEAK FLOW			7.7	May 12	a0 0425	Jul 19, 1938
MAXIMUM PEAK STAGE			4.43	May 12	5.05	Jul 10, 2002
INSTANTANEOUS LOW FLOW			0.06	Jan 4	0.00	Aug 25, 1950
ANNUAL RUNOFF (AC-FT)	1,020		1,100		2,040	
10 PERCENT EXCEEDS	3.5		4.4		6.9	
50 PERCENT EXCEEDS	0.64		0.59		1.2	
90 PERCENT EXCEEDS	0.34		0.34		0.51	

a Gage height 4.30 ft from floodmarks, from rating curve extended above 10 ft^3/s, on basis of slope-area measurement at gage height 4.0 ft, at different datum.
e Estimated

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

LOCATION.--Lat 35°43'52", long 105°54'39", in NW ¼ SW ¼ sec. 5, T. 17 N., R. 10 E., Santa Fe County, Hydrologic Unit 13020101, on right bank 100 ft downstream from entrance to Bishops Lodge, and 9.0 mi northeast of Santa Fe.

DRAINAGE AREA.--7.61 mi^2, approximately.

PERIOD OF RECORD.--July 1999 to current year.

GAGE.--Water-stage recorder. Concrete low-flow control. Elevation of gage is 7,100 ft above National Geodetic Vertical Datum of 1929.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.14	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.76	0.10	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	1.7	0.67	0.08	0.00	0.00	0.00
4	0.01	0.00	0.00	0.00	0.00	0.00	1.2	0.62	0.07	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.60	0.07	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	1.3	0.57	0.04	0.00	0.00	0.00
7	0.01	0.00	0.00	0.00	0.00	0.00	1.7	0.56	0.02	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	4.4	0.54	0.01	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	25	0.51	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	26	0.50	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	21	0.48	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	16	0.45	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	9.4	0.40	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	9.0	0.39	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	12	0.37	0.00	0.00	e10	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	14	0.35	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	14	0.35	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	14	0.33	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	11	0.31	0.03	0.00	0.00	0.07
20	0.00	0.00	0.00	0.00	0.00	0.00	8.1	0.28	0.00	0.00	0.01	0.01
21	0.00	0.00	0.00	0.00	0.00	0.00	4.9	0.27	0.00	0.00	0.01	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	3.7	0.27	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	3.1	0.28	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	2.5	0.27	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	1.9	0.30	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.29	0.00	0.02	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	1.2	0.26	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.24	0.00	0.00	0.00	0.10
29	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.23	0.01	0.00	0.00	0.03
30	0.00	0.00	0.00	0.00	---	0.00	0.93	0.20	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.17	---	0.00	0.00	---
TOTAL	0.02	0.00	0.00	0.00	0.00	0.00	212.79	12.67	0.57	0.02	10.02	0.21
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	7.09	0.41	0.02	0.00	0.32	0.01
MAX	0.01	0.00	0.00	0.00	0.00	0.00	26	0.85	0.14	0.02	10	0.10
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
AC-FT	0.04	0.00	0.00	0.00	0.00	0.00	422	25	1.1	0.04	20	0.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	0.10	0.16	0.03	0.00	0.03	0.89	2.44	0.42	0.03	0.01	0.45	0.04
MAX	0.48	0.79	0.14	0.00	0.14	2.74	7.09	1.23	0.08	0.03	2.26	0.18
(WY)	(2001)	(2001)	(2001)	(2000)	(2001)	(2001)	(2004)	(2001)	(2001)	(2002)	(1999)	(1999)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(2002)	(2002)	(2002)	(2000)	(2000)	(2002)	(2002)	(2002)	(2002)	(2003)	(2002)	(2003)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	140.94		236.30			
ANNUAL MEAN	0.39		0.65		0.35	
HIGHEST ANNUAL MEAN					0.70	2001
LOWEST ANNUAL MEAN					0.00	2002
HIGHEST DAILY MEAN	13	Mar 27	26	Apr 10	26	Apr 10, 2004
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Jul 28, 1999
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 8	0.00	Oct 9, 1999
MAXIMUM PEAK FLOW			260	Aug 15	260	Aug 15, 2004
MAXIMUM PEAK STAGE			5.24	Aug 15	5.24	Aug 15, 2004
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Jul 28, 1999
ANNUAL RUNOFF (AC-FT)	280		469		253	
10 PERCENT EXCEEDS	1.3		0.55		0.62	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

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

LOCATION.--Lat 35°52'29", long 106°08'30", in SW ¼ SW ¼ 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, Colorado.

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 good. Considerable regulation by Heron Reservoir (station 08284510), El Vado Reservoir (station 08285000), and Abiquiu Reservoir (station 08286900) on Rio Chama, which can contribute a major portion of the total flow. Flow affected by release of transmountain water from Heron Reservoir since May 1971. Diversions upstream from station for irrigation of about 620,000 acres in Colorado and 75,000 acres in New Mexico.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	429	318	529	495	534	618	1,640	1,400	1,340	625	913	532
2	428	324	571	490	517	625	1,650	1,730	1,160	557	771	478
3	417	358	615	479	504	638	1,810	1,870	1,020	593	746	467
4	553	372	600	475	543	686	1,470	2,260	981	691	600	505
5	510	382	598	455	528	684	1,430	2,190	1,150	779	676	552
6	425	382	593	425	522	663	1,440	2,830	1,330	851	586	514
7	380	379	596	463	499	678	1,410	2,930	1,420	978	416	612
8	415	378	627	528	524	684	1,510	3,050	1,410	1,040	339	639
9	369	384	656	501	522	711	1,770	3,290	1,250	983	608	787
10	359	398	635	481	509	757	1,560	3,400	1,200	966	771	788
11	389	405	571	480	510	807	1,550	3,360	1,110	965	798	769
12	380	409	566	490	514	874	1,420	3,220	1,050	943	855	755
13	373	458	552	498	487	958	1,350	3,120	962	960	968	794
14	364	461	513	501	465	1,050	1,320	3,200	1,050	937	977	806
15	363	452	539	506	472	1,070	1,290	3,120	1,110	952	1,070	812
16	363	445	565	520	519	1,100	1,250	3,010	1,040	970	687	807
17	357	439	525	534	514	1,100	1,370	2,510	1,020	902	548	784
18	361	446	531	530	518	1,140	1,770	2,260	1,100	901	487	780
19	355	435	572	513	528	1,130	1,740	2,260	1,240	1,050	633	853
20	359	433	624	527	531	1,140	1,720	2,310	1,200	1,020	750	766
21	376	547	647	558	534	1,190	1,400	2,490	1,190	942	858	572
22	387	608	652	543	537	1,290	1,270	2,330	1,140	991	894	526
23	393	598	715	482	539	1,380	1,280	2,020	1,060	1,080	733	587
24	386	565	735	523	548	1,570	1,320	1,960	915	888	700	589
25	384	526	688	534	553	1,820	1,240	1,900	903	835	681	517
26	396	530	671	504	550	2,000	1,240	1,660	1,030	530	753	527
27	408	542	663	482	561	2,180	1,230	1,540	1,010	447	610	532
28	379	540	627	485	585	2,130	1,270	1,440	940	462	579	498
29	344	529	463	502	610	2,040	1,260	1,300	974	514	569	483
30	305	546	459	506	---	1,850	1,310	1,310	747	588	545	569
31	314	---	480	516	---	1,720	---	1,350	---	814	563	---
TOTAL	12,021	13,589	18,378	15,526	15,277	36,283	43,290	72,620	33,052	25,754	21,684	19,200
MEAN	388	453	593	501	527	1,170	1,443	2,343	1,102	831	699	640
MAX	553	608	735	558	610	2,180	1,810	3,400	1,420	1,080	1,070	853
MIN	305	318	459	425	465	618	1,230	1,300	747	447	339	467
AC-FT	23,840	26,950	36,450	30,800	30,300	71,970	85,870	144,000	65,560	51,080	43,010	38,080

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2004, BY WATER YEAR (WY)

MEAN	799	932	896	787	897	1,323	2,127	3,481	3,065	1,524	994	889
MAX	2,225	2,034	1,959	1,757	2,641	3,127	6,412	8,390	7,914	4,548	2,132	1,553
(WY)	(1998)	(1987)	(1976)	(1986)	(1987)	(1987)	(1985)	(1985)	(1979)	(1995)	(1999)	(1999)
MIN	361	368	426	436	498	610	489	433	470	394	391	263
(WY)	(1975)	(2003)	(2003)	(1977)	(2003)	(2003)	(1977)	(1972)	(1972)	(1972)	(1972)	(1974)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1971 - 2004	
ANNUAL TOTAL	255,997		326,674			
ANNUAL MEAN	701		893		1,477	
HIGHEST ANNUAL MEAN					2,764	1987
LOWEST ANNUAL MEAN					602	1977
HIGHEST DAILY MEAN	1,820	May 15	3,400	May 10	12,000	May 11, 1985
LOWEST DAILY MEAN	305	Oct 30	305	Oct 30	195	Aug 4, 1977
ANNUAL SEVEN-DAY MINIMUM	334	Oct 29	334	Oct 29	229	Sep 11, 1971
MAXIMUM PEAK FLOW			3,600	May 10	24,400	May 23, 1920
MAXIMUM PEAK STAGE			6.43	May 10	14.50	Sep 29, 1904
INSTANTANEOUS LOW FLOW			284	Nov 2	195	Aug 4, 1977
ANNUAL RUNOFF (AC-FT)	507,800		648,000		1,070,000	
10 PERCENT EXCEEDS	1,090		1,680		3,370	
50 PERCENT EXCEEDS	598		634		976	
90 PERCENT EXCEEDS	401		409		481	

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1946 to September 1997, April to September 2004.

INSTRUMENTATION.--Specific conductance since Apr. 2004. Hourly data logged.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,310 microsiemens, Aug. 5, 1963; minimum daily, 88 microsiemens, May 12, 1984.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 383 microsiemens, Sept. 30; minimum daily, 227 microsiemens, June 8.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, NTU (00076)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
OCT													
23...	0905	389	28	628	8.6	97	8.1	395	15.0	12.0	150	44.7	8.34
NOV													
25...	1000	544	18	619	11.4	102	8.1	348	5.0	2.0	120	36.8	7.01
DEC													
16...	1030	549	8.5	632	11.6	99	8.5	339	2.0	1.0	140	41.8	7.76
FEB													
23...	1440	549	6.0	618	11.4	119	8.5	318	13.0	8.0	120	35.6	6.76
APR													
22...	1200	1,280	--	616	9.2	106	8.1	248	21.5	12.0	97	30.2	5.14
JUL													
21...	1210	949	--	626	7.8	109	8.1	317	31.5	22.0	120	37.8	6.13

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
OCT													
23...	3.04	.9	25.3	118	143	--	7.22	.5	17.7	63.5	241	--	.30
NOV													
25...	3.00	.9	22.3	117	141	--	7.49	.5	24.2	47.3	219	--	<.20
DEC													
16...	2.91	.8	22.7	108	128	E2	7.32	.5	23.0	45.4	215	--	.30
FEB													
23...	2.86	.8	20.1	115	133	2	7.86	.5	23.8	38.6	204	213	.14
APR													
22...	2.13	.6	14.1	84	101	--	5.21	.3	18.0	29.2	154	168	.22
JUL													
21...	2.35	.6	16.0	95	114	--	4.08	.6	17.3	52.4	193	171	.17

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, fltrd, mg/L (00681)	Organic carbon, water, unfltrd mg/L (00680)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Fecal streptococci KF MF, col/ 100 mL (31673)
OCT													
23...	.40	<.01	.01	<.02	<.010	<.01	.02	.07	2.8	3.4	74	600	68
NOV													
25...	.30	<.01	.02	.15	<.010	<.01	<.02	.07	--	--	63	60	83
DEC													
16...	.30	<.01	.01	.17	<.010	<.01	<.02	.04	1.7	2.0	<1	E17	33
FEB													
23...	.33	E.03	.02	.06	E.005	<.02	.009	.054	--	--	E37	E33	--
APR													
22...	.56	<.04	--	<.06	<.008	E.01	.016	.145	--	--	--	--	--
JUL													
21...	.42	<.04	--	<.06	<.008	<.02	.009	.075	--	--	--	--	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Alum-inum, water, fltrd, ug/L (01106)	Anti-mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryll-ium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chrom-ium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan-ese, water, fltrd, ug/L (01056)
OCT													
23...	2	E.13	E1	80	<.06	40	E.02	<.8	.206	1.3	E4	<.08	2.7
NOV													
25...	4	<.20	E1	64	<.06	36	<.04	<.8	.114	1.1	10	E.08	4.5
DEC													
16...	3	<.20	E1	59	<.06	39	<.04	E.4	.135	1.1	7	E.04	5.7
FEB													
23...	5	E.10	2	48	<.06	39	<.04	E.4	.173	1.1	11	.11	5.9
APR													
22...	10	<.20	E1	46	<.06	28	E.03	<.8	.150	1.6	13	.20	3.1
JUL													
21...	2	E.11	2	57	<.06	28	<.04	E.7	.168	1.3	<6	<.08	1.6

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Mercury water, unfltrd recover -able, ug/L (71900)	Molyb-denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen-ium, water, fltrd, ug/L (01145)	Selen-ium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Ra-226, water, fltrd, radon method pCi/L (09511)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)
OCT											
23...	<.02	6.8	1.72	<3	<3	<.2	1.2	--	2.87	62	99
NOV											
25...	<.02	5.5	.78	<3	<3	<.2	1.6	--	3.09	28	174
DEC											
16...	<.02	5.9	.90	<3	<3	<.2	.9	.07	3.08	28	116
FEB											
23...	<.02	5.3	1.82	<3	<3	<.2	.9	--	3.10	57	49
APR											
22...	<.02	2.8	1.29	<3	<3	<.2	2.2	--	1.86	21	404
JUL											
21...	--	4.0	1.09	<3	--	<.2	E.5	--	1.50	55	84

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

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	267	246	256
2	---	---	---	---	---	---	---	---	---	284	262	277
3	---	---	---	---	---	---	---	---	---	284	275	279
4	---	---	---	---	---	---	---	---	---	297	280	292
5	---	---	---	---	---	---	---	---	---	297	288	292
6	---	---	---	---	---	---	---	---	---	303	288	295
7	---	---	---	---	---	---	---	---	---	292	279	284
8	---	---	---	---	---	---	---	---	---	282	265	271
9	---	---	---	---	---	---	---	---	---	278	263	269
10	---	---	---	---	---	---	---	---	---	269	256	263
11	---	---	---	---	---	---	---	---	---	271	258	266
12	---	---	---	---	---	---	---	---	---	275	257	266
13	---	---	---	---	---	---	---	---	---	279	255	268
14	---	---	---	---	---	---	---	---	---	290	267	278
15	---	---	---	---	---	---	---	---	---	293	275	284
16	---	---	---	---	---	---	---	---	---	299	281	291
17	---	---	---	---	---	---	---	---	---	299	278	287
18	---	---	---	---	---	---	---	---	---	295	276	286
19	---	---	---	---	---	---	---	---	---	293	275	281
20	---	---	---	---	---	---	---	---	---	279	249	261
21	---	---	---	---	---	---	---	---	---	249	233	240
22	---	---	---	---	---	---	---	---	---	240	227	234
23	---	---	---	---	---	---	267	235	257	242	228	235
24	---	---	---	---	---	---	276	263	268	250	236	243
25	---	---	---	---	---	---	286	265	275	248	235	243
26	---	---	---	---	---	---	275	264	270	259	234	245
27	---	---	---	---	---	---	277	258	266	269	251	260
28	---	---	---	---	---	---	272	258	264	265	249	255
29	---	---	---	---	---	---	268	254	261	255	240	247
30	---	---	---	---	---	---	261	252	257	255	237	247
31	---	---	---	---	---	---	---	---	---	255	238	247
MONTH	---	---	---	---	---	---	286	235	265	303	227	266

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

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	254	236	245	334	309	320	331	303	320	340	320	335
2	249	228	240	334	311	323	328	301	313	---	---	---
3	259	240	249	327	305	319	338	313	324	---	---	---
4	282	254	269	321	299	308	358	315	343	340	310	333
5	288	269	277	314	293	305	361	263	340	350	300	329
6	274	256	263	331	307	320	366	275	324	340	340	340
7	256	242	247	331	316	325	---	---	---	340	320	330
8	246	227	238	339	319	328	---	---	---	330	320	324
9	264	240	250	345	324	335	---	---	---	320	310	319
10	264	250	258	347	332	339	---	---	---	320	310	311
11	276	255	265	351	335	342	---	---	---	320	310	310
12	269	253	261	351	337	345	---	---	---	320	310	312
13	281	257	268	353	334	344	---	---	---	310	310	310
14	294	264	282	359	339	347	310	310	310	320	300	308
15	294	272	284	360	343	351	320	310	311	308	303	305
16	296	275	287	364	341	352	340	310	324	308	303	305
17	294	281	287	366	345	353	340	330	334	309	303	305
18	290	275	283	359	343	352	---	---	---	310	304	306
19	290	280	285	371	340	349	---	---	---	311	302	307
20	296	276	286	352	343	348	370	330	350	332	311	326
21	297	283	291	359	342	349	360	290	339	352	327	341
22	296	281	289	353	338	344	330	300	315	358	350	354
23	310	284	297	341	307	326	330	320	324	354	337	345
24	305	290	299	344	318	332	330	320	321	349	340	344
25	301	290	295	351	286	325	330	320	323	365	344	356
26	307	290	298	382	350	367	330	320	322	369	352	363
27	313	296	303	---	---	---	330	320	328	364	360	362
28	313	302	308	---	---	---	340	330	330	367	361	365
29	317	296	308	367	341	353	340	330	331	374	364	369
30	322	303	312	356	315	334	330	330	330	383	356	371
31	---	---	---	341	324	331	340	330	331	---	---	---
MONTH	322	227	277	382	286	337	370	263	327	383	300	332
YEAR	383	227	304									

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

LOCATION.--Lat 35°41'23", long 105°49'25", in NE ¼ SE ¼ SE ¼, 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 and 1.5-ft and 8-ft Parshall flume. Elevation of gage is 7,920 ft above National Geodeotic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for those estimated, which are poor. Low flows in 1.5-ft Parshall flume computed under station 08315479.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.0	e1.0	e0.90	e1.0	e1.1	5.7	11	e7.5	3.6	1.3	1.1
2	1.2	1.0	e1.1	e0.90	e1.0	e1.4	9.1	10	e7.1	2.9	1.2	0.93
3	1.4	0.99	e1.1	e0.85	e1.0	e1.4	22	9.8	e6.8	2.6	1.3	0.82
4	2.1	0.98	e1.1	e0.80	e1.1	e1.9	19	11	e6.5	2.4	1.9	0.96
5	1.7	0.95	e1.0	e0.70	e1.1	e2.0	16	13	e6.2	2.2	2.0	1.3
6	1.4	0.99	e1.0	e0.70	e1.0	e2.1	18	17	e6.0	2.2	1.5	1.1
7	1.5	1.1	e1.1	e0.75	e1.0	e2.2	20	21	e5.9	2.2	1.4	1.0
8	2.0	1.0	e1.2	e0.85	e1.0	e2.6	31	23	e5.7	2.0	1.2	0.93
9	1.5	1.0	e1.1	e0.90	e0.90	2.3	33	24	e5.6	1.8	1.1	0.92
10	1.4	1.0	e1.1	e0.90	e0.95	2.8	28	25	e5.4	1.8	1.1	0.86
11	1.6	1.1	e1.2	e0.90	e1.2	3.0	22	26	e5.3	1.9	1.1	0.84
12	1.4	1.1	e1.2	e0.85	e1.2	2.9	18	26	e5.1	2.0	1.0	0.81
13	1.3	1.0	e1.2	e0.90	e1.0	3.0	16	24	e4.9	1.8	0.95	0.79
14	1.2	e1.0	e1.1	e0.90	e0.95	3.2	17	21	e4.7	1.6	0.93	0.80
15	1.2	e1.0	e1.1	e0.85	e0.95	3.8	19	20	e4.5	1.6	1.4	0.71
16	1.2	e1.0	e0.95	e0.85	e1.0	4.0	21	20	e4.2	1.5	1.1	0.58
17	1.2	1.2	e0.95	e0.85	e1.0	4.0	21	19	e3.8	e1.4	1.0	0.55
18	1.1	1.1	e1.0	e0.85	e1.0	4.4	22	19	e3.4	1.4	1.0	0.60
19	1.1	e1.1	e1.1	e0.90	e1.0	5.4	21	19	2.9	1.6	1.1	3.5
20	1.1	e1.0	e1.1	e0.90	e1.1	6.3	18	19	2.5	1.3	1.2	3.5
21	1.1	e1.0	e1.1	e0.90	e1.2	6.8	16	19	2.2	1.6	1.1	1.9
22	1.0	e1.0	e1.2	e0.85	e1.2	7.0	14	18	2.6	1.6	1.3	1.5
23	1.0	e0.95	e1.2	e0.85	e1.1	e7.3	13	16	3.1	1.6	1.1	1.4
24	1.0	e0.90	e1.2	e0.80	e1.2	e7.7	11	14	2.9	1.7	0.93	1.3
25	1.0	e0.95	e1.2	e0.75	e1.0	8.5	10	13	2.8	2.3	0.90	1.3
26	1.0	e0.95	e1.1	e0.70	e0.95	8.2	9.0	12	2.6	1.7	0.83	1.6
27	1.1	e1.0	e1.0	e0.70	e0.90	7.6	8.7	11	2.5	1.9	0.79	1.6
28	1.1	e1.0	e0.95	e0.75	e0.95	6.7	9.2	9.6	3.1	1.6	0.78	1.5
29	1.0	e0.95	e0.90	e0.85	e1.0	6.2	10	9.3	3.2	1.6	0.81	1.9
30	1.0	e0.95	e0.95	e0.95	---	5.9	11	8.7	7.0	1.5	0.90	1.8
31	1.0	---	e0.95	e0.95	---	5.7	---	8.0	---	1.4	1.1	---
TOTAL	39.1	30.26	33.45	26.05	29.95	137.4	508.7	516.4	136.0	58.3	35.32	38.40
MEAN	1.26	1.01	1.08	0.84	1.03	4.43	17.0	16.7	4.53	1.88	1.14	1.28
MAX	2.1	1.2	1.2	0.95	1.2	8.5	33	26	7.5	3.6	2.0	3.5
MIN	1.0	0.90	0.90	0.70	0.90	1.1	5.7	8.0	2.2	1.3	0.78	0.55
AC-FT	78	60	66	52	59	273	1,010	1,020	270	116	70	76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2004, BY WATER YEAR (WY)

MEAN	1.93	2.56	1.57	1.41	1.48	3.50	7.88	13.9	6.16	2.41	6.13	2.15
MAX	3.32	5.95	2.82	2.54	2.95	7.62	17.0	28.9	11.3	5.38	23.4	4.19
(WY)	(1999)	(1999)	(2001)	(2001)	(2001)	(2001)	(2004)	(2001)	(1999)	(1998)	(1999)	(1998)
MIN	0.89	0.92	0.85	0.84	0.84	0.90	1.84	1.00	0.45	0.90	0.72	0.72
(WY)	(2002)	(2002)	(2002)	(2004)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1998 - 2004	
ANNUAL TOTAL	1,569.25		1,589.33			
ANNUAL MEAN	4.30		4.34		4.14	
HIGHEST ANNUAL MEAN					6.72	2001
LOWEST ANNUAL MEAN					0.91	2002
HIGHEST DAILY MEAN	28	May 29	33	Apr 9	67	Aug 9, 1999
LOWEST DAILY MEAN	0.70	Jan 1	0.55	Sep 17	0.05	Sep 7, 2002
ANNUAL SEVEN-DAY MINIMUM	0.72	Jan 13	0.69	Sep 12	0.11	Sep 2, 2002
MAXIMUM PEAK FLOW			38	Apr 8	105	Aug 8, 1999
MAXIMUM PEAK STAGE			1.03	Apr 8	2.05	Aug 8, 1999
INSTANTANEOUS LOW FLOW					0.02	Sep 6, 2002
ANNUAL RUNOFF (AC-FT)	3,110		3,150		3,000	
10 PERCENT EXCEEDS	11		16		11	
50 PERCENT EXCEEDS	1.4		1.3		1.8	
90 PERCENT EXCEEDS	0.92		0.90		0.80	

e Estimated

08315500 MCCLURE RESERVOIR NEAR SANTA FE, NM

LOCATION.--Lat 35°41'18", long 105°50'06", in NE ¼ SW ¼, 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 Oct. 1947 and May 1953, varying amounts of sandbag bulkheads were placed on crest of spillway to increase capacity. Between May 1953 and Dec. 1971, spillway was equipped with radial gates that opened automatically, thereby increasing capacity to more than 3,000 acre-ft. Radial gates were removed during 1972, capacity, 2,615 acre-ft. In 1995, modifications to the dam and spillway increased capacity to 3,257 acre-ft. Only the storage of Rio Grande water in excess of 1,061 acre-ft is subject to terms of the Rio Grande Compact. No dead storage.

COOPERATION.--Capacity table provided by Public Service Co. of New Mexico. Supplementary gage readings provided by City of Santa Fe.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 3,280 acre-ft, June 8, 1997, gage height, 86.03 ft; no contents Jan. 25 to May 8, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 3,260 acre-ft, June 2-5, elevation, 7,885.88 ft; minimum, 1,430 acre-ft, Nov. 6, elevation, 7,858.63 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,650	1,450	1,480	1,540	1,590	1,650	1,940	3,110	3,260	2,960	2,610	2,240
2	1,650	1,450	1,480	1,540	1,590	1,650	1,970	3,090	3,260	2,950	2,590	2,220
3	1,640	1,440	1,480	1,540	1,600	1,650	2,040	3,070	3,260	2,940	2,580	2,210
4	1,640	1,430	1,480	1,540	1,600	1,660	2,090	3,070	3,260	2,930	2,570	2,200
5	1,630	1,430	1,480	1,540	1,600	1,660	2,130	3,080	3,260	2,920	2,560	2,190
6	1,630	1,430	1,480	1,540	1,600	1,660	2,180	3,090	3,260	2,910	2,550	2,180
7	1,620	1,430	1,490	1,550	1,600	1,670	2,230	3,090	3,260	2,900	2,540	2,170
8	1,620	1,430	1,490	1,550	1,610	1,670	2,310	3,080	3,260	2,890	2,530	2,150
9	1,610	1,430	1,490	1,550	1,610	1,680	2,400	3,070	3,260	2,880	2,510	2,140
10	1,610	1,440	1,490	1,550	1,610	1,690	2,490	3,060	3,260	2,870	2,500	2,130
11	1,600	1,440	1,490	1,550	1,610	1,690	2,550	3,050	3,260	2,860	2,490	2,120
12	1,590	1,440	1,500	1,550	1,610	1,700	2,600	3,040	3,260	2,850	2,480	2,110
13	1,590	1,450	1,500	1,560	1,610	1,710	2,640	3,030	3,260	2,840	2,460	2,090
14	1,580	1,450	1,500	1,560	1,610	1,720	2,690	3,030	3,260	2,830	2,450	2,080
15	1,570	1,450	1,500	1,560	1,620	1,720	2,740	3,040	3,260	2,810	2,440	2,070
16	1,570	1,450	1,500	1,560	1,620	1,730	2,790	3,050	3,260	2,800	2,430	2,060
17	1,560	1,460	1,510	1,570	1,620	1,740	2,840	3,050	3,250	2,790	2,410	2,050
18	1,550	1,460	1,510	1,570	1,620	1,750	2,890	3,070	3,220	2,770	2,400	2,030
19	1,550	1,460	1,510	1,570	1,620	1,760	2,940	3,090	3,200	2,760	2,390	2,040
20	1,540	1,460	1,510	1,570	1,630	1,770	2,970	3,120	3,170	2,750	2,380	2,030
21	1,530	1,460	1,510	1,570	1,630	1,790	3,010	3,140	3,150	2,740	2,370	2,020
22	1,520	1,460	1,520	1,570	1,630	1,800	3,030	3,150	3,120	2,720	2,360	2,010
23	1,520	1,460	1,520	1,580	1,630	1,820	3,050	3,160	3,100	2,710	2,350	2,000
24	1,510	1,460	1,520	1,580	1,640	1,830	3,060	3,170	3,070	2,700	2,330	1,990
25	1,500	1,470	1,520	1,580	1,640	1,850	3,070	3,180	3,040	2,690	2,320	1,980
26	1,490	1,470	1,530	1,580	1,640	1,870	3,070	3,180	3,020	2,680	2,310	1,970
27	1,490	1,470	1,530	1,580	1,640	1,880	3,080	3,180	2,990	2,670	2,300	1,960
28	1,480	1,470	1,530	1,580	1,640	1,890	3,100	3,190	2,980	2,650	2,280	1,950
29	1,470	1,470	1,530	1,590	1,650	1,900	3,120	3,210	2,970	2,640	2,270	1,950
30	1,470	1,470	1,530	1,590	---	1,910	3,120	3,230	2,970	2,630	2,260	1,940
31	1,460	---	1,540	1,590	---	1,920	---	3,250	---	2,620	2,250	---
MAX	1,650	1,470	1,540	1,590	1,650	1,920	3,120	3,250	3,260	2,960	2,610	2,240
MIN	1,460	1,430	1,480	1,540	1,590	1,650	1,940	3,030	2,970	2,620	2,250	1,940
(+)	7,859.20	7,859.45	7,860.54	7,861.49	7,862.46	7,867.01	7,884.09	7,885.64	7,882.09	7,877.34	7,872.00	7,867.20
(++)	-200	+10	+20	+50	+60	+270	+1,200	+130	-280	-350	-370	-310

CAL YR 2003 MAX 2,790 MIN 758 (++) +783
WTR YR 2004 MAX 3,260 MIN 1,430 (++) +280

(+) 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 ¼ SE ¼ sec.23, T.17 N., R.10 E., Santa Fe County, Hydrologic Unit 13020201, in Santa Fe National Forest, on left bank 0.4 mi downstream from McClure Dam, 5.3 mi east of Santa Fe, and at mile 36.6.

DRAINAGE AREA.--18.2 mi^2.

PERIOD OF RECORD.--June 1910, January 1913 to current year. Monthly discharge only for some periods, published in WSP 1312. Prior to October 1953, published as "Santa Fe Creek near Santa Fe."

REVISED RECORDS.--WSP 1512: 1933, 1936-37(M), 1942, drainage area. WSP 1732: 1923, 1925. WDR NM-75-1: 1927.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 7,720 ft above National Geodetic Vertical Datum of 1929, from topographic map. See WSP 1312 for history of changes prior to Oct. 1, 1947.

REMARKS.--Records good except for those estimated, which are poor. Flow regulated by McClure Reservoir (station 08315500), completed in 1926, raised in 1935, 1947, and again in 1989.

EXTREMES OUTSIDE PERIOD OF RECORD.--Peaks that 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	4.2	0.05	e0.05	e0.06	0.05	0.08	19	0.32	6.8	6.6	6.1
2	4.2	4.2	0.04	e0.07	e0.04	0.05	0.35	19	6.8	6.8	6.6	6.1
3	4.2	4.2	0.04	e0.08	e0.03	0.07	2.0	18	7.2	6.8	6.6	6.1
4	4.2	4.2	0.04	0.07	e0.04	0.09	1.5	14	6.9	6.8	6.6	6.1
5	4.1	2.5	0.04	e0.08	e0.04	0.07	1.1	9.0	7.2	6.7	6.6	6.1
6	4.1	0.05	0.04	e0.08	e0.06	0.06	0.90	12	6.5	6.7	6.6	6.1
7	4.3	0.04	0.04	e0.07	e0.07	0.08	0.78	20	6.3	6.7	6.6	6.0
8	4.2	0.03	0.04	e0.05	e0.05	0.10	1.2	27	5.8	6.6	6.6	6.0
9	4.2	0.03	0.03	e0.03	e0.05	0.11	1.4	28	5.3	6.6	6.5	6.0
10	4.2	0.03	0.11	e0.04	e0.04	0.10	1.3	28	4.8	6.7	6.6	6.0
11	4.2	0.06	0.48	e0.04	e0.04	0.10	1.0	28	4.2	6.7	6.5	6.0
12	4.2	0.07	0.08	e0.05	e0.03	0.10	0.81	28	3.9	6.7	6.5	6.0
13	4.2	0.10	0.03	e0.04	e0.03	0.11	0.69	28	3.7	6.7	6.5	6.0
14	4.2	0.07	0.03	e0.03	e0.04	0.11	0.60	22	3.5	6.7	6.5	6.0
15	4.4	0.05	0.03	e0.03	e0.04	0.11	0.52	16	3.2	6.7	6.5	6.0
16	4.4	0.05	0.02	e0.05	e0.05	0.09	0.46	16	2.7	6.7	6.5	6.0
17	4.4	0.05	0.03	0.05	e0.05	0.09	0.40	15	8.3	6.7	6.5	5.9
18	4.3	0.05	0.07	0.05	e0.06	0.08	0.36	11	14	6.7	6.5	5.9
19	4.3	0.04	e0.05	0.05	e0.05	0.08	0.32	7.4	14	6.7	6.5	6.1
20	4.3	0.04	e0.04	0.05	e0.04	0.07	0.31	7.3	14	6.7	6.5	6.0
21	4.3	0.05	e0.06	0.05	e0.06	0.08	0.29	11	14	6.7	6.5	6.0
22	4.3	0.04	e0.03	0.04	e0.05	0.07	4.8	11	14	6.7	6.5	6.0
23	4.3	0.06	0.05	0.06	0.06	0.08	7.4	11	14	6.7	6.5	6.0
24	4.3	0.17	0.13	0.12	0.07	0.07	7.4	11	14	6.7	6.2	6.0
25	4.3	0.08	0.05	0.12	0.07	0.07	7.4	11	14	6.7	6.2	6.0
26	4.2	0.05	0.03	e0.10	0.06	0.06	7.4	11	14	6.7	6.2	6.0
27	4.2	0.08	0.03	e0.08	0.06	0.08	5.7	10	14	6.7	6.2	6.0
28	4.2	0.18	e0.05	e0.08	0.07	0.07	2.0	5.3	10	6.7	6.2	6.0
29	4.2	0.13	e0.04	e0.09	0.05	0.06	1.5	0.27	6.8	6.7	6.1	6.0
30	4.2	0.11	e0.04	e0.09	---	0.07	12	0.25	6.8	6.7	6.1	6.0
31	4.2	---	e0.03	e0.08	---	0.07	---	0.25	---	6.6	6.1	---
TOTAL	131.5	21.01	1.87	1.97	1.46	2.50	71.97	454.77	250.22	207.8	199.7	180.5
MEAN	4.24	0.70	0.06	0.06	0.05	0.08	2.40	14.7	8.34	6.70	6.44	6.02
MAX	4.4	4.2	0.48	0.12	0.07	0.11	12	28	14	6.8	6.6	6.1
MIN	4.1	0.03	0.02	0.03	0.03	0.05	0.08	0.25	0.32	6.6	6.1	5.9
AC-FT	261	42	3.7	3.9	2.9	5.0	143	902	496	412	396	358

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2004, BY WATER YEAR (WY)

MEAN	4.76	2.91	2.39	2.23	2.57	4.61	12.1	22.6	17.1	9.29	8.41	6.75
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	0.07	0.05	0.02	0.04	0.04	0.08	0.02	0.53	0.70	0.25	0.03	0.05
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)	(2002)	(1955)	(1955)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1913 - 2004	
ANNUAL TOTAL	1,176.88		1,525.27			
ANNUAL MEAN	3.22		4.17		7.97	
HIGHEST ANNUAL MEAN					26.2	1919
LOWEST ANNUAL MEAN					1.84	2002
HIGHEST DAILY MEAN	17	Jun 4	28	May 9	378	Sep 23, 1929
LOWEST DAILY MEAN	0.01	Jan 8	0.02	Dec 16	a0.00	Aug 2, 2000
ANNUAL SEVEN-DAY MINIMUM	0.02	Mar 4	0.04	Dec 13	0.00	Aug 2, 2000
MAXIMUM PEAK FLOW			29	May 7	b1,500	Aug 14, 1921
MAXIMUM PEAK STAGE			2.20	May 7	c5.17	Aug 14, 1921
INSTANTANEOUS LOW FLOW			0.00	Dec 16	0.00	Aug 2, 2000
ANNUAL RUNOFF (AC-FT)	2,330		3,030		5,770	
10 PERCENT EXCEEDS	11		9.3		17	
50 PERCENT EXCEEDS	0.18		4.2		4.0	
90 PERCENT EXCEEDS	0.02		0.04		0.90	

a Many days.
b From rating curve extended above 150 ft^3/s.
c Site and datum then in use.
e Estimated

08316500 NICHOLS RESERVOIR NEAR SANTA FE, NM

LOCATION.--Lat 35°41'24", long 105°52'46", in SE ¼ NE ¼ 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 Sangre de Cristo Water Co. and City of Santa Fe.

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, 694 acre-ft, May 8, 9, 12, 13, and 14, gage height, 167.29 ft; minimum, 366 acre-ft, Oct. 10, gage height, 154.55 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	403	467	504	510	516	525	562	665	624	617	529	538
2	398	474	504	510	517	526	569	675	620	611	529	535
3	394	482	504	510	517	526	600	688	619	606	529	530
4	390	490	504	510	517	528	630	691	617	604	530	523
5	385	496	504	510	518	528	654	689	610	608	530	524
6	380	497	504	511	518	529	674	691	604	609	530	525
7	378	498	504	510	518	529	688	694	596	609	530	525
8	374	499	505	511	518	530	690	694	588	615	530	524
9	370	499	505	511	518	531	691	694	580	605	530	523
10	366	500	505	511	518	532	691	694	572	594	530	521
11	369	500	505	511	519	533	690	694	561	583	529	519
12	374	501	506	512	519	534	689	694	549	576	529	517
13	381	503	506	512	519	536	689	694	535	572	528	515
14	389	503	506	512	519	537	688	691	522	569	529	513
15	398	503	506	512	519	539	688	691	507	566	529	511
16	403	503	506	513	519	541	687	691	491	562	528	509
17	410	504	506	513	519	542	686	691	483	559	527	507
18	409	504	507	513	520	544	686	690	495	555	527	505
19	409	504	507	513	520	546	685	689	506	552	526	511
20	409	504	507	514	520	547	685	686	513	549	525	512
21	409	504	507	514	521	549	682	688	527	547	526	511
22	408	504	508	514	521	551	678	687	542	544	538	508
23	411	504	508	515	522	553	682	687	550	541	550	507
24	417	504	508	514	523	555	687	688	555	539	557	505
25	420	504	508	515	523	556	687	687	571	536	559	503
26	426	504	509	515	523	557	687	689	587	533	556	501
27	432	504	509	515	524	559	686	689	604	529	551	500
28	435	504	509	515	525	559	679	684	613	528	549	498
29	443	504	509	516	524	560	664	670	616	528	547	497
30	451	504	509	516	---	561	654	655	618	529	544	495
31	459	---	509	516	---	562	---	639	---	529	541	---
MAX	459	504	509	516	525	562	691	694	624	617	559	538
MIN	366	467	504	510	516	525	562	639	483	528	525	495
(+)	158.60	160.47	160.68	160.93	161.25	162.64	165.95	165.48	164.74	161.41	161.87	160.16
(++)	+52	+45	+5	+7	+8	+38	+92	-15	-21	-89	+12	-46

CAL YR 2003 MAX 530 MIN 206 (++) +205
WTR YR 2004 MAX 694 MIN 366 (++) +88

(+) 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, Colorado.

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

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Apr. 15, 1975, at site 1.3 mi upstream at same datum.

REMARKS.--Lake is formed by an earthfill dam on Rio Grande and Santa Fe River. Storage began on Nov. 12, 1973. Capacity, based on capacity table effective Jan. 1, 1999, 502,330 acre-ft between elevations 5,247.0 ft and 5,450.0 ft, crest of service spillway. Dead storage 560 acre-ft below elevation 5,255.0 ft, invert of outlet structure. Lake was created primarily for flood and sediment control. A 50,000-acre-ft permanent pool is authorized for recreational purposes.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 301,000 acre-ft, July 3, 1986, elevation, 5,417.32 ft; no storage prior to Nov. 12, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 53,440 acre-ft, Apr. 4, elevation, 5,343.34 ft; minimum, 47,510 acre-ft, Dec. 29, elevation, 5,338.56 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on survey by U.S. Army Corps of Engineers in 1998)

Elevation	Contents	Elevation	Contents
5,338	46,900	5,340	49,140
5,339	48,000	5,350	63,850

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48,280	48,210	47,850	47,970	48,380	50,230	51,000	51,970	51,450	51,710	50,010	49,860
2	48,320	48,150	47,790	48,240	48,550	50,320	51,500	52,430	51,420	51,360	50,020	49,890
3	48,390	48,140	47,750	48,140	48,710	50,400	52,590	52,650	51,320	50,910	50,170	49,840
4	48,560	48,080	47,740	48,010	48,840	50,600	53,440	52,390	51,100	50,610	50,290	49,860
5	48,790	48,030	47,740	47,870	48,930	50,740	53,300	51,890	51,030	50,380	50,290	50,020
6	48,700	48,000	47,810	47,720	48,960	50,790	52,440	51,800	51,400	50,220	50,830	50,100
7	48,480	47,950	47,860	47,870	48,960	50,830	51,790	51,380	51,750	50,290	50,590	49,880
8	48,360	47,910	47,870	48,080	48,970	50,900	51,680	50,610	51,890	50,440	50,110	49,630
9	48,220	47,870	47,740	48,150	49,000	50,980	51,980	50,480	51,680	50,520	49,610	49,550
10	48,130	47,850	47,680	48,140	49,020	51,040	52,010	51,050	51,450	50,460	49,550	49,660
11	48,090	47,860	47,680	48,100	49,100	51,090	51,880	51,700	51,280	50,390	49,650	49,650
12	48,110	47,940	47,750	48,090	49,230	51,270	51,710	51,930	51,050	50,300	49,600	49,550
13	48,120	47,960	47,900	48,130	49,230	51,580	51,510	51,770	50,790	50,350	49,670	49,510
14	48,120	48,000	48,020	48,210	49,320	52,090	51,190	51,700	50,540	50,400	49,840	49,490
15	48,120	47,970	47,960	48,270	49,380	52,170	51,140	51,580	50,500	50,440	50,350	49,500
16	48,110	47,950	47,880	48,260	49,500	51,870	51,220	51,760	50,440	50,540	50,460	49,560
17	48,090	47,910	47,660	48,220	49,650	51,460	51,330	51,930	50,320	50,530	50,260	49,570
18	48,040	47,910	47,680	48,200	49,790	51,090	52,050	51,760	50,300	50,350	49,970	49,590
19	48,000	47,860	47,760	48,140	49,940	50,950	52,510	51,830	50,460	50,280	49,820	49,820
20	47,950	47,810	47,870	48,130	50,110	50,860	52,480	52,010	50,680	50,330	49,850	50,040
21	47,920	47,850	48,120	48,100	50,300	50,840	52,200	52,220	50,850	50,240	49,990	49,940
22	47,930	48,090	48,200	48,020	50,490	51,000	51,800	52,220	51,020	50,160	50,230	49,620
23	47,960	48,350	48,040	47,940	50,530	51,200	51,700	51,920	51,120	50,350	50,220	49,420
24	48,000	48,370	47,960	47,910	50,520	51,360	51,880	51,720	51,030	50,750	49,990	49,420
25	47,990	48,200	47,910	47,950	50,370	51,510	51,920	51,870	50,830	51,290	49,770	49,470
26	48,010	47,960	47,800	47,870	50,220	51,540	51,910	51,920	50,790	51,140	49,690	49,430
27	48,120	47,710	47,610	47,760	50,280	51,500	51,910	51,870	51,000	50,800	49,670	49,430
28	48,240	47,700	47,600	47,810	50,210	51,660	52,000	51,830	51,240	50,440	49,540	49,370
29	48,320	47,750	47,510	47,930	50,220	51,660	52,130	51,510	51,640	50,170	49,530	49,310
30	48,270	47,850	47,560	48,060	---	51,510	51,930	51,270	51,890	50,080	49,600	49,430
31	48,210	---	47,740	48,210	---	51,140	---	51,360	---	49,970	49,720	---
MAX	48,790	48,370	48,200	48,270	50,530	52,170	53,440	52,650	51,890	51,710	50,830	50,100
MIN	47,920	47,700	47,510	47,720	48,380	50,230	51,000	50,480	50,300	49,970	49,530	49,310
(+)	5,339.19	5,338.87	5,338.77	5,339.19	5,340.89	5,341.63	5,342.24	5,341.80	5,342.21	5,340.69	5,340.48	5,340.24
(++)	-50	-360	-110	-470	+2,010	+920	+790	-570	+530	-1,920	-250	-290

CAL YR 2003 MAX 51,980 MIN 47,510 (++) -1,060
WTR YR 2004 MAX 53,440 MIN 47,510 (++) +1,170

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

08317400 RIO GRANDE BELOW COCHITI DAM, NM

LOCATION.--Lat 35°37'05", long 106°19'24", in SW ¼ NE ¼ 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, Colorado.

WATER-DISCHARGE RECORDS

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 diversions.

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	260	267	494	406	441	538	1,590	1,240	1,250	599	685	358
2	270	267	525	475	434	515	1,290	1,250	1,130	597	638	357
3	336	286	553	526	436	526	1,080	1,580	922	618	505	356
4	336	340	570	519	451	530	1,080	2,070	883	658	431	355
5	363	374	541	514	479	550	1,420	2,260	898	699	379	355
6	434	372	525	458	490	563	1,800	2,450	907	696	351	355
7	448	375	527	386	491	563	1,690	2,970	1,090	690	369	481
8	413	376	563	409	492	565	1,460	3,270	1,250	714	391	560
9	388	374	634	462	492	566	1,460	3,180	1,240	741	483	561
10	353	377	639	484	493	550	1,550	3,010	1,080	767	586	560
11	336	377	565	483	458	559	1,560	3,010	1,010	781	588	595
12	239	375	491	483	428	563	1,490	3,210	956	757	644	615
13	200	406	441	463	429	570	1,410	3,340	895	715	681	617
14	195	428	445	452	431	569	1,420	3,330	897	708	682	617
15	196	429	506	472	432	818	1,250	3,320	892	714	623	607
16	217	430	537	521	433	1,040	1,080	3,060	858	712	558	592
17	294	431	536	538	433	1,090	1,040	2,630	830	709	509	582
18	299	407	483	537	435	1,090	1,040	2,500	859	788	450	582
19	299	425	472	535	439	990	1,330	2,290	889	820	429	593
20	298	428	491	536	436	938	1,530	2,260	907	799	522	590
21	298	429	492	567	437	937	1,540	2,460	907	796	579	563
22	298	431	570	582	441	943	1,350	2,520	869	794	578	516
23	298	423	709	545	503	1,060	1,170	2,390	849	735	590	494
24	298	520	731	507	595	1,220	1,120	2,170	815	605	592	455
25	296	588	700	506	614	1,440	1,120	1,970	799	495	595	429
26	236	590	702	553	613	1,650	1,120	1,780	801	496	551	432
27	197	580	695	531	520	1,790	1,080	1,610	729	496	520	430
28	182	498	589	463	579	1,790	1,040	1,520	676	455	504	430
29	185	451	405	435	578	1,780	1,100	1,460	623	429	452	427
30	206	454	329	436	---	1,790	1,180	1,330	600	443	385	436
31	265	---	364	440	---	1,780	---	1,250	---	556	357	---
TOTAL	8,933	12,508	16,824	15,224	13,933	29,873	39,390	72,690	27,311	20,582	16,207	14,900
MEAN	288	417	543	491	480	964	1,313	2,345	910	664	523	497
MAX	448	590	731	582	614	1,790	1,800	3,340	1,250	820	685	617
MIN	182	267	329	386	428	515	1,040	1,240	600	429	351	355
AC-FT	17,720	24,810	33,370	30,200	27,640	59,250	78,130	144,200	54,170	40,820	32,150	29,550
(+)	2,980	223	0	0	0	3,800	4,290	5,880	5,510	4,840	4,870	3,890
(++)	1,540	136	0	0	0	3,540	3,020	4,160	3,510	3,520	3,090	2,730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2004, BY WATER YEAR (WY)

MEAN	585	842	870	809	935	1,177	1,878	3,028	2,810	1,581	896	712
MAX	2,045	1,878	1,787	2,245	3,639	2,868	6,320	6,101	6,205	5,643	3,683	1,635
(WY)	(1998)	(1987)	(1987)	(1986)	(1986)	(1986)	(1985)	(1984)	(1983)	(1979)	(1986)	(1986)
MIN	214	331	419	428	444	438	281	353	392	293	254	121
(WY)	(1975)	(1990)	(2003)	(1977)	(2003)	(1977)	(1977)	(1972)	(1972)	(1972)	(1972)	(1974)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1971 - 2004	
ANNUAL TOTAL	206,631		288,375			
ANNUAL MEAN	566		788		1,344	
HIGHEST ANNUAL MEAN					2,355	1986
LOWEST ANNUAL MEAN					452	1977
HIGHEST DAILY MEAN	1,430	May 15	3,340	May 13	8,290	May 7, 1985
LOWEST DAILY MEAN	182	Oct 28	182	Oct 28	0.51	Aug 4, 1977
ANNUAL SEVEN-DAY MINIMUM	220	Oct 26	220	Oct 26	39	Sep 16, 1977
MAXIMUM PEAK FLOW			3,390	May 12	a10,300	Jul 26, 1971
MAXIMUM PEAK STAGE			4.13	May 12	b7.90	Jul 26, 1971
INSTANTANEOUS LOW FLOW			71	Feb 27	c0.51	Aug 4, 1977
ANNUAL RUNOFF (AC-FT)	409,900		572,000		973,900	
10 PERCENT EXCEEDS	845		1,540		3,400	
50 PERCENT EXCEEDS	520		563		850	
90 PERCENT EXCEEDS	304		357		377	

a From rating curve extended above 2,600 ft^3/s.
b Site and datum then in use.
c Aug. 3-5, Aug. 27 and 28, 1978, result of regulation.
(+) Diversion, in acre-feet, by Cochiti Eastside Main Canal at Head.
(++) Diversion, in acre-feet, by Sili Main Canal at Head.

08317400 RIO GRANDE BELOW COCHITI DAM, NM—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to September 1984, October 1986 to August 1987, September 2000 to July 2001, November 2002 to current year.
WATER TEMPERATURE: July 1971 to September 1982, September 2000 to July 2001, November 2002 to current year.

INSTRUMENTATION.--Water-quality monitor Sept. 2000 to July 2001 with hourly data logged. Electronic data logger with 15-minute recording interval, Nov. 2002 to current year.

REMARKS.--Specific-conductance records rated good. Water temperature records rated excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 698 microsiemens, July 19, 1978; minimum daily, 130 microsiemens, July 30, 1978.
WATER TEMPERATURE: Maximum daily, 35.5°, August 4, 1977; minimum daily, freezing point many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 384 microsiemens, October 25; minimum daily, 221 microsiemens, Apr. 4, 8, 10.
WATER TEMPERATURE: Maximum daily, 22.6°, Aug. 12; minimum daily, 2.0°, Jan. 6.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	361	346	353	374	367	371	372	368	370	360	358	359
2	355	345	352	376	368	372	371	367	370	361	357	359
3	353	347	349	376	371	373	372	368	371	360	357	358
4	360	348	353	373	369	371	372	369	370	360	357	358
5	364	357	360	373	368	371	371	367	369	359	357	358
6	364	354	360	375	372	373	370	366	369	357	355	357
7	363	356	361	375	372	374	369	366	368	358	355	357
8	361	355	359	377	374	376	369	367	368	358	355	357
9	361	355	359	376	372	375	369	365	367	357	355	356
10	364	357	361	378	374	376	368	366	368	357	354	356
11	365	358	362	378	374	376	370	367	368	357	355	356
12	364	354	359	377	370	374	369	365	367	357	355	356
13	364	356	360	377	372	375	369	365	368	357	354	355
14	362	355	359	379	375	377	369	366	368	356	354	355
15	361	352	357	378	375	377	367	363	366	355	351	353
16	366	358	363	380	374	377	366	362	365	354	350	352
17	369	360	365	380	377	379	367	364	366	358	354	355
18	370	363	368	380	375	378	366	363	365	357	354	356
19	373	367	371	380	378	379	366	364	365	355	351	353
20	374	367	372	381	377	380	365	362	364	352	346	349
21	378	370	375	382	379	380	365	361	363	355	349	353
22	378	370	376	383	377	380	364	361	363	349	342	346
23	381	375	378	380	376	378	364	360	361	349	345	347
24	383	377	381	381	377	379	363	361	362	350	347	348
25	384	373	377	---	---	---	363	361	362	351	349	350
26	379	367	372	---	---	---	362	357	360	353	350	351
27	373	368	372	---	---	---	362	359	360	353	348	351
28	373	368	371	---	---	---	361	359	360	350	342	347
29	373	368	371	373	371	372	361	357	359	349	342	346
30	374	366	371	371	369	370	360	357	359	350	345	347
31	374	368	371	---	---	---	360	357	359	348	345	346
MONTH	384	345	365	383	367	376	372	357	365	361	342	353

08317400 RIO GRANDE BELOW COCHITI DAM, NM—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	351	346	350	336	334	335	257	236	248	260	257	258
2	351	348	350	335	333	335	269	233	248	259	257	258
3	350	345	348	334	325	329	265	240	248	259	257	258
4	350	347	348	333	328	330	245	221	235	259	258	259
5	350	347	348	334	332	333	233	225	230	261	259	259
6	349	343	346	333	331	332	244	224	228	262	260	261
7	349	343	345	332	327	330	233	225	229	264	261	263
8	347	343	345	329	326	327	238	221	227	268	263	267
9	346	342	345	330	323	327	236	223	227	270	266	268
10	347	343	345	331	323	329	231	221	226	271	267	269
11	346	343	345	332	329	331	228	225	226	270	266	269
12	347	342	345	331	321	326	230	226	228	270	265	267
13	347	344	346	329	322	327	232	225	228	267	265	266
14	346	342	344	330	323	328	232	227	229	266	264	265
15	347	341	344	330	322	327	236	226	229	269	265	267
16	344	339	341	329	324	326	234	227	229	270	268	268
17	344	335	339	329	320	324	231	227	230	271	269	270
18	339	335	337	324	316	321	235	226	233	272	271	272
19	339	337	338	327	316	320	234	231	232	274	271	273
20	339	337	338	327	314	319	236	231	233	275	272	274
21	339	337	338	323	310	316	241	233	236	275	274	274
22	338	337	338	319	312	316	244	240	241	275	274	274
23	338	336	338	316	305	312	253	243	247	274	269	273
24	338	336	338	311	303	308	249	246	247	269	263	266
25	338	336	337	307	297	304	251	246	249	263	256	260
26	338	334	336	303	279	297	254	249	251	257	247	253
27	334	329	332	292	278	287	255	252	254	258	254	256
28	338	334	336	287	270	282	256	251	254	257	254	256
29	337	334	336	280	261	271	257	253	255	258	254	256
30	---	---	---	273	251	257	260	254	257	257	254	256
31	---	---	---	254	244	249	---	---	---	258	254	255
MONTH	351	329	342	336	244	315	269	221	238	275	247	264
		JUNE			JULY			AUGUST			SEPTEMBER	
1	258	252	255	266	257	263	308	304	306	315	311	313
2	255	252	254	266	260	263	309	301	306	317	312	314
3	255	249	253	264	261	263	309	303	307	317	312	315
4	257	250	254	266	262	264	309	306	307	316	314	315
5	255	252	254	267	262	264	310	299	306	316	314	315
6	255	253	254	268	263	265	304	294	302	317	313	315
7	256	253	254	270	263	267	304	299	302	317	310	314
8	254	251	253	269	263	267	304	299	302	316	309	314
9	253	251	252	273	265	268	304	299	301	317	312	314
10	254	251	253	274	268	270	303	297	301	318	313	315
11	254	251	252	272	268	271	303	292	301	318	314	316
12	252	248	251	273	269	271	306	298	302	318	315	316
13	251	247	249	273	271	272	305	299	303	317	314	316
14	250	247	249	275	270	272	306	299	304	317	313	315
15	250	246	248	281	275	278	306	301	303	317	312	315
16	250	246	248	281	277	278	306	297	303	316	305	312
17	250	246	248	286	279	282	304	297	302	314	309	312
18	250	247	248	285	281	284	305	300	303	313	311	312
19	249	246	248	287	284	285	309	298	305	312	310	311
20	251	247	249	294	287	289	309	306	308	311	308	311
21	250	248	249	295	287	291	314	309	311	312	306	310
22	253	248	251	297	290	294	313	310	312	311	305	310
23	255	252	253	298	289	295	313	309	311	312	310	311
24	255	252	254	300	288	296	312	306	311	315	309	312
25	257	254	255	302	296	300	311	309	310	315	309	314
26	260	254	257	302	297	299	311	307	310	315	311	313
27	263	258	260	303	295	300	311	306	310	315	312	314
28	267	253	263	302	298	300	311	309	310	316	311	314
29	264	256	260	303	297	302	312	308	310	316	312	314
30	266	259	262	305	301	303	313	309	311	316	311	315
31	---	---	---	306	302	304	314	308	311	---	---	---
MONTH	267	246	253	306	257	281	314	292	306	318	305	314
YEAR	384	221	314									

08317400 RIO GRANDE BELOW COCHITI DAM, NM—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.4	18.7	19.0	14.6	13.9	14.3	7.4	6.8	7.0	3.6	3.0	3.4
2	19.3	18.7	19.0	14.5	13.9	14.2	7.3	6.7	7.0	3.9	2.8	3.5
3	19.1	18.7	18.9	14.4	13.8	14.1	7.2	6.8	7.0	3.6	3.3	3.4
4	19.0	18.3	18.7	14.3	13.7	14.0	7.0	6.6	6.8	3.6	3.3	3.4
5	18.7	18.1	18.4	14.0	13.5	13.7	6.8	6.3	6.6	3.3	2.4	2.9
6	18.5	18.0	18.2	13.6	13.1	13.4	6.7	6.2	6.5	2.9	2.0	2.6
7	18.2	17.9	18.1	13.2	12.7	13.0	6.5	6.1	6.3	3.0	2.5	2.8
8	18.4	17.8	18.1	12.9	12.5	12.7	6.6	6.2	6.4	3.1	2.6	2.9
9	18.3	17.8	18.0	12.9	12.3	12.6	6.3	6.0	6.2	2.9	2.6	2.8
10	18.2	17.8	17.9	12.7	12.2	12.4	6.5	5.8	6.2	2.9	2.6	2.8
11	18.3	17.7	17.9	12.7	12.2	12.4	6.2	5.9	6.0	3.0	2.7	2.8
12	18.4	17.7	17.9	12.6	12.2	12.4	6.2	5.9	6.0	3.2	2.9	3.0
13	18.4	17.6	17.9	12.4	12.0	12.1	6.1	5.8	6.0	3.1	2.8	3.0
14	18.2	17.4	17.7	12.1	11.6	11.9	6.0	5.7	5.9	3.1	2.9	3.0
15	18.0	17.2	17.5	11.6	11.2	11.4	5.7	5.5	5.6	3.0	2.8	2.8
16	17.8	17.1	17.3	11.4	11.0	11.2	5.6	5.2	5.4	3.2	2.9	3.0
17	17.4	16.8	17.1	11.1	10.8	11.0	5.5	5.2	5.3	3.4	3.1	3.2
18	17.3	16.8	16.9	11.1	10.7	10.9	5.4	5.1	5.2	3.4	3.1	3.2
19	17.2	16.6	16.8	10.8	10.5	10.6	5.5	5.2	5.3	3.5	3.0	3.2
20	17.1	16.5	16.7	10.5	10.2	10.3	5.3	4.9	5.1	3.3	3.1	3.2
21	17.0	16.4	16.7	10.2	9.8	10.1	5.1	4.7	4.9	3.5	3.2	3.3
22	16.9	16.4	16.6	10.2	9.7	9.9	5.1	4.6	4.8	3.6	3.1	3.3
23	16.8	16.3	16.5	10.0	9.5	9.7	4.7	4.4	4.5	3.5	3.1	3.3
24	16.8	16.1	16.3	9.6	9.0	9.3	4.7	4.5	4.6	3.4	3.0	3.3
25	16.2	15.8	16.0	---	---	---	4.6	4.4	4.5	3.5	3.2	3.3
26	16.2	15.4	15.8	---	---	---	4.5	3.9	4.1	3.5	3.1	3.2
27	15.7	14.7	15.3	---	---	---	4.3	4.0	4.1	3.2	2.8	2.9
28	15.2	14.3	14.7	---	---	---	4.3	3.9	4.1	3.0	2.7	2.9
29	15.1	14.2	14.5	7.7	7.3	7.5	4.0	2.7	3.3	3.0	2.7	2.9
30	14.9	13.9	14.4	7.3	6.8	7.1	3.6	2.8	3.3	3.3	2.8	3.1
31	14.6	13.9	14.3	---	---	---	3.5	3.0	3.3	3.1	2.9	3.0
MONTH	19.4	13.9	17.1	14.6	6.8	11.6	7.4	2.7	5.4	3.9	2.0	3.1
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	3.0	3.2	4.7	4.2	4.4	11.5	10.4	11.0	13.4	12.8	13.1
2	3.3	3.0	3.1	4.4	4.2	4.2	11.7	10.4	11.2	13.5	12.8	13.1
3	3.1	2.5	2.8	5.8	4.4	5.0	11.7	10.2	11.1	13.5	12.9	13.2
4	3.4	2.9	3.1	5.3	4.7	5.0	11.3	10.4	10.9	14.0	13.1	13.6
5	3.1	2.6	2.8	5.4	4.6	4.9	11.2	10.7	10.9	13.9	13.5	13.7
6	2.9	2.5	2.8	5.3	4.8	5.0	11.5	10.9	11.2	14.3	13.7	14.0
7	2.9	2.5	2.7	5.9	5.0	5.4	11.4	11.0	11.2	14.7	14.0	14.4
8	3.3	2.8	3.0	5.9	5.5	5.7	11.8	10.8	11.2	14.9	14.4	14.8
9	3.1	2.7	2.9	6.2	5.2	5.6	11.8	11.1	11.4	15.2	14.5	14.9
10	2.9	2.5	2.8	6.1	5.2	5.5	11.4	11.1	11.2	15.3	14.5	15.0
11	3.0	2.7	2.8	5.5	5.1	5.3	11.4	11.1	11.2	15.6	14.9	15.3
12	3.1	2.8	2.9	7.4	5.3	6.4	11.3	10.8	11.1	15.7	15.0	15.5
13	2.8	2.3	2.6	7.2	5.8	6.3	11.4	10.5	11.0	15.6	15.4	15.5
14	2.7	2.3	2.5	7.1	5.7	6.1	11.3	10.7	11.1	15.5	15.0	15.3
15	2.8	2.6	2.7	7.1	5.8	6.4	11.6	10.7	11.1	15.5	14.9	15.2
16	2.7	2.3	2.6	7.1	6.0	6.5	11.7	10.8	11.2	15.5	15.0	15.2
17	3.0	2.5	2.8	7.1	6.1	6.7	11.9	10.9	11.4	15.6	15.0	15.3
18	3.3	2.8	3.0	7.4	6.3	6.9	12.4	11.0	11.7	15.6	15.0	15.3
19	3.5	3.0	3.2	7.6	6.0	7.0	12.4	11.4	11.9	15.8	15.1	15.5
20	3.4	3.1	3.2	7.9	6.0	7.2	12.5	11.7	12.1	16.0	15.3	15.6
21	3.3	3.2	3.3	8.2	6.6	7.4	---	11.9	---	16.4	15.6	16.0
22	3.7	3.2	3.4	7.9	7.1	7.5	12.5	11.8	12.2	16.5	15.9	16.2
23	3.7	3.3	3.5	8.6	7.4	7.9	13.0	11.9	12.4	16.5	16.0	16.2
24	3.7	3.3	3.5	8.9	7.9	8.4	12.5	12.0	12.3	16.5	16.1	16.3
25	4.0	3.6	3.8	9.1	8.3	8.7	13.5	12.0	12.6	16.6	16.0	16.3
26	4.4	3.5	3.9	10.9	8.7	9.4	12.8	12.4	12.6	16.4	15.7	16.1
27	5.6	4.3	4.7	10.9	9.5	10.2	12.9	12.2	12.5	16.6	16.0	16.3
28	4.3	3.9	4.1	10.9	10.2	10.5	12.9	12.3	12.6	16.7	16.1	16.4
29	4.7	3.9	4.2	11.2	10.2	10.7	13.3	12.1	12.7	16.8	16.2	16.6
30	---	---	---	11.2	10.4	10.8	13.8	12.8	13.2	17.0	16.4	16.7
31	---	---	---	11.3	10.5	10.9	---	---	---	16.9	16.4	16.7
MONTH	5.6	2.3	3.2	11.3	4.2	7.0	13.8	10.2	11.7	17.0	12.8	15.3

08317400 RIO GRANDE BELOW COCHITI DAM, NM—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.0	16.3	16.7	20.1	19.4	19.8	22.1	21.5	21.7	21.2	20.6	20.9
2	17.0	16.5	16.8	20.2	19.4	19.8	22.1	21.6	21.8	21.1	20.6	20.8
3	17.1	16.5	16.8	20.2	19.6	19.9	22.1	21.5	21.8	21.1	20.4	20.7
4	17.2	16.6	16.8	20.3	19.6	20.0	22.0	21.6	21.7	20.9	20.5	20.7
5	17.1	16.7	16.9	20.4	19.8	20.1	22.2	21.3	21.7	21.0	20.5	20.7
6	17.3	16.8	17.0	20.5	19.8	20.1	---	21.5	---	21.0	20.4	20.6
7	17.4	16.9	17.2	20.6	19.9	20.2	22.2	21.6	21.9	20.9	20.3	20.6
8	17.7	17.2	17.4	20.6	19.9	20.3	22.2	21.5	21.8	20.9	20.4	20.6
9	17.9	17.4	17.6	20.9	20.0	20.4	22.3	21.7	22.0	20.8	20.4	20.5
10	18.1	17.4	17.6	20.9	20.0	20.5	22.4	21.8	22.1	20.8	20.3	20.5
11	18.0	17.4	17.7	20.8	20.3	20.6	22.3	21.8	22.1	20.9	20.3	20.6
12	18.1	17.5	17.8	21.0	20.4	20.7	22.6	21.7	22.2	20.8	20.3	20.5
13	18.1	17.6	17.9	20.9	20.4	20.6	22.5	22.0	22.2	20.8	20.3	20.5
14	---	17.9	---	21.1	20.4	20.8	22.5	21.9	22.2	20.7	20.3	20.5
15	18.5	18.1	18.3	21.1	20.3	20.8	22.5	21.8	22.1	20.7	20.2	20.4
16	18.7	18.1	18.4	21.1	20.3	20.9	22.3	21.8	22.0	---	20.1	---
17	18.9	18.3	18.6	21.3	20.7	21.0	22.3	21.8	21.9	20.5	20.0	20.2
18	19.0	18.6	18.8	21.4	20.7	21.1	22.2	21.6	21.9	20.5	19.9	20.2
19	19.3	18.8	19.1	21.5	21.1	21.3	---	21.6	---	20.3	19.9	20.1
20	19.6	18.9	19.2	21.6	21.2	21.4	22.2	21.7	21.9	20.2	19.9	20.0
21	20.1	19.2	19.4	21.8	21.0	21.4	22.0	21.5	21.8	20.2	19.8	20.0
22	20.1	19.3	19.6	22.1	21.2	21.6	22.0	21.3	21.6	20.0	19.6	19.8
23	19.8	19.2	19.6	22.4	20.7	21.6	21.8	21.3	21.5	19.7	19.2	19.5
24	20.0	19.3	19.6	21.8	21.0	21.4	21.7	21.2	21.5	19.4	18.7	19.1
25	20.3	19.3	19.8	21.6	21.0	21.4	21.6	21.1	21.4	19.1	18.5	18.8
26	20.1	19.3	19.8	22.0	21.3	21.6	21.5	21.0	21.2	19.0	18.4	18.7
27	20.0	19.2	19.7	22.1	21.1	21.6	21.4	20.9	21.1	19.0	18.4	18.6
28	19.9	19.3	19.7	21.8	21.4	21.5	21.4	20.9	21.1	18.8	18.3	18.5
29	20.2	19.1	19.7	21.9	21.1	21.5	21.5	20.8	21.1	18.8	18.3	18.5
30	20.1	19.2	19.7	21.9	21.2	21.5	21.5	20.8	21.1	18.7	18.3	18.5
31	---	---	---	22.0	21.2	21.6	21.4	20.7	21.0	---	---	---
MONTH	20.3	16.3	18.4	22.4	19.4	20.9	22.6	20.7	21.7	21.2	18.3	20.0
YEAR	22.6	2.0	12.9									

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 Jan. 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 telemetry 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)

Elevation	Contents	Elevation	Contents
5,500	0	5,504	41
5,501	2	5,505	69
5,502	9	5,506	109
5,503	21	5,508	244

08317950 GALISTEO CREEK BELOW GALISTEO DAM, NM

LOCATION.--Lat 35°27'53", long 106°12'49", in NE ¼ NE ¼ 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. No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01
2	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.02	33	0.01
3	0.00	e0.00	0.00	0.00	0.00	0.00	8.6	0.00	0.00	0.01	5.1	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	56	0.00	0.00	0.01	29	0.01
5	0.00	0.00	e0.00	0.00	0.00	0.00	24	0.00	0.00	0.01	112	1.9
6	0.00	0.00	e0.00	0.00	0.00	0.00	15	0.00	0.00	0.01	0.02	0.01
7	e0.00	0.00	e0.00	0.00	0.00	0.00	10	0.00	0.00	0.02	0.01	0.01
8	e0.00	0.00	e0.00	0.00	0.00	0.00	3.1	0.00	0.00	0.01	0.00	0.00
9	0.00	0.00	e0.00	0.00	0.00	0.00	25	0.00	0.00	0.01	0.00	0.00
10	0.00	0.00	e0.00	0.00	0.00	0.00	19	0.00	0.00	0.02	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	14	0.00	0.00	0.02	9.2	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	9.9	0.00	0.00	0.02	0.33	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	6.0	0.00	0.00	0.02	0.01	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	4.3	0.00	0.00	0.02	13	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02	63	0.00
16	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.29	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.86
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	3.2
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	10	1.4
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.39	0.01
23	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	1.4	0.02	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	4.2	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	7.1	0.00	0.00
26	e0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	4.5	0.00	0.02
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.01
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.76
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	17	0.01	11
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.02	0.01	0.00	2.3
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	195.74	0.00	1.43	34.59	275.38	21.51
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	6.52	0.00	0.05	1.12	8.88	0.72
MAX	0.00	0.00	0.00	0.00	0.00	0.00	56	0.00	1.4	17	112	11
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	388	0.00	2.8	69	546	43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2004, BY WATER YEAR (WY)

MEAN	4.28	1.49	1.27	1.30	1.76	2.52	2.59	2.68	6.43	17.9	16.8	8.50
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1980)	(1980)	(1980)	(1981)	(1981)	(1981)	(1981)	(1971)	(1971)	(1987)	(2002)	(1979)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1970 - 2004	
ANNUAL TOTAL	168.60		528.65			
ANNUAL MEAN	0.46		1.44		5.55	
HIGHEST ANNUAL MEAN					12.8	1972
LOWEST ANNUAL MEAN					0.11	2002
HIGHEST DAILY MEAN	43	Aug 27	112	Aug 5	1,190	Aug 9, 1999
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	May 15, 1970
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	May 30, 1970
MAXIMUM PEAK FLOW			714	Aug 5	3,460	Aug 24, 1997
MAXIMUM PEAK STAGE			4.26	Aug 5	5.57	Aug 24, 1997
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	May 15, 1970
ANNUAL RUNOFF (AC-FT)	334		1,050		4,020	
10 PERCENT EXCEEDS	0.00		0.35		6.2	
50 PERCENT EXCEEDS	0.00		0.00		0.17	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

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, Colorado.

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 with satellite telemetry. Datum of gage is 5,l15.73 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 May 16, 1945, to Sept. 30, 1946, when it was 5.94 ft lower than present datum.

REMARKS.--Water-discharge records fair. Flow completely regulated since Nov. 1973 by Cochiti Dam (station 08317300) 17 mi upstream. Prior to Nov. 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 are irrigated downstream by Cochiti Eastside Main Canal (station 08313500) 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	432	320	517	415	443	600	1,790	1,390	1,290	612	591	387
2	410	321	556	443	440	601	1,570	1,410	1,200	601	590	386
3	467	329	567	513	442	607	1,290	1,590	1,020	605	536	385
4	479	364	590	514	449	628	1,390	2,090	906	650	440	388
5	486	415	579	511	470	632	1,490	2,380	942	693	493	398
6	533	414	555	484	487	646	1,900	2,510	956	704	361	394
7	622	417	555	419	487	642	1,850	3,000	1,050	682	386	433
8	570	414	570	403	491	644	1,700	3,170	1,240	719	385	541
9	436	415	619	452	487	645	1,620	3,200	1,260	752	427	541
10	405	415	649	479	486	652	1,730	3,040	1,140	787	532	545
11	380	416	602	479	470	683	1,720	3,040	1,020	806	546	562
12	350	420	546	481	434	653	1,680	3,170	991	799	574	596
13	298	437	488	471	434	665	1,580	3,350	922	754	613	601
14	288	461	485	456	434	666	1,590	3,380	913	735	641	601
15	286	460	510	462	433	773	1,490	3,400	911	732	641	599
16	284	459	563	498	433	995	1,280	3,280	886	731	552	585
17	325	461	563	526	431	1,100	1,230	2,810	847	728	518	579
18	342	442	542	527	432	1,110	1,240	2,650	867	786	471	579
19	341	454	501	527	421	1,070	1,400	2,500	923	884	446	602
20	344	455	524	530	421	1,000	1,680	2,350	937	846	476	593
21	345	455	525	541	423	1,010	1,680	2,560	926	827	561	561
22	343	458	555	560	423	1,010	1,570	2,640	883	880	563	535
23	342	460	646	547	446	1,060	1,380	2,600	877	669	574	502
24	343	494	706	502	566	1,180	1,270	2,290	848	561	573	483
25	348	590	672	505	599	1,340	1,280	2,140	817	509	579	430
26	331	596	675	527	616	1,620	1,270	1,910	828	453	564	428
27	299	603	676	540	564	1,810	1,250	1,780	776	456	518	422
28	270	575	629	483	608	1,840	1,210	1,610	722	453	501	426
29	261	506	491	440	613	1,850	1,250	1,580	696	432	476	427
30	264	503	361	439	---	1,880	1,330	1,430	632	441	423	426
31	311	---	385	440	---	1,890	---	1,290	---	457	389	---
TOTAL	11,535	13,529	17,402	15,114	13,883	31,502	44,710	75,540	28,226	20,744	15,940	14,935
MEAN	372	451	561	488	479	1,016	1,490	2,437	941	669	514	498
MAX	622	603	706	560	616	1,890	1,900	3,400	1,290	884	641	602
MIN	261	320	361	403	421	600	1,210	1,290	632	432	361	385
AC-FT	22,880	26,830	34,520	29,980	27,540	62,480	88,680	149,800	55,990	41,150	31,620	29,620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2004, BY WATER YEAR (WY)

MEAN	712	877	931	861	987	1,282	2,026	3,161	3,001	1,764	1,052	848
MAX	2,164	2,072	1,969	2,163	3,695	3,054	6,126	6,160	6,534	5,979	3,667	1,781
(WY)	(1998)	(1987)	(1987)	(1986)	(1986)	(1986)	(1985)	(1985)	(1983)	(1979)	(1986)	(1986)
MIN	289	389	482	462	479	546	378	521	746	565	514	206
(WY)	(1975)	(1990)	(2003)	(1977)	(2004)	(1977)	(1977)	(1977)	(1989)	(1974)	(2004)	(1974)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1974 - 2004	
ANNUAL TOTAL	230,234		303,060			
ANNUAL MEAN	631		828		1,459	
HIGHEST ANNUAL MEAN					2,493	1987
LOWEST ANNUAL MEAN					547	1977
HIGHEST DAILY MEAN	1,520	May 15	3,400	May 15	8,100	May 7, 1985
LOWEST DAILY MEAN	261	Oct 29	261	Oct 29	67	Aug 28, 1978
ANNUAL SEVEN-DAY MINIMUM	292	Oct 27	292	Oct 27	135	Aug 23, 1978
MAXIMUM PEAK FLOW			3,500	May 16	27,300	Jun 26, 1937
MAXIMUM PEAK STAGE			6.24	May 16	11.13	Jun 26, 1937
INSTANTANEOUS LOW FLOW			246	Oct 28	32	Jul 7, 1934
ANNUAL RUNOFF (AC-FT)	456,700		601,100		1,057,000	
10 PERCENT EXCEEDS	904		1,680		3,540	
50 PERCENT EXCEEDS	570		572		964	
90 PERCENT EXCEEDS	415		397		465	

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 diversion, in acre-feet, of Cochiti Eastside Main Canal.

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 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	Turbidity, NTU (00076)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
OCT													
27...	1200	303	--	830	635	9.0	103	8.1	382	17.5	13.0	--	--
NOV													
17...	1115	465	--	11	630	9.8	103	8.3	395	10.9	9.0	--	--
DEC													
11...	1400	627	--	8.6	628	10.8	106	8.1	362	12.0	6.0	--	--
JAN													
29...	1030	440	--	4.2	633	11.0	96	8.0	378	6.0	2.0	--	--
FEB													
10...	1130	483	--	1.4	635	11.2	100	8.3	354	6.0	3.0	140	41.9
27...	1145	639	--	.56	633	10.9	103	7.8	363	11.5	5.0	--	--
MAR													
17...	1140	1,110	--	28	637	10.4	100	7.8	352	21.0	6.0	--	--
APR													
20...	1310	1,690	--	26	631	9.4	109	8.1	247	18.0	13.5	92	28.8
20...	1330	1,670	--	29	634	8.9	97	7.9	256	16.5	11.0	--	--
MAY													
06...	1130	2,450	--	26	637	8.1	98	7.6	274	21.8	15.5	--	--
JUN													
03...	1130	1,110	--	16	638	8.2	104	7.9	265	25.0	18.0	100	32.0
07...	1225	960	13	--	630	8.1	103	7.9	273	29.6	17.5	--	--
JUL													
09...	1230	741	17	--	641	7.6	103	8.6	284	33.1	21.6	--	--
19...	1200	913	--	--	635	7.6	106	8.1	295	31.0	22.5	110	35.4
AUG													
04...	1230	448	--	--	637	7.5	106	8.2	334	30.0	23.2	--	--
SEP													
07...	1155	391	13	--	640	8.2	108	8.2	341	--	19.9	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
OCT													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
10...	7.55	3.13	.9	24.8	130	157	7.88	.5	22.6	44.6	231	237	.20
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
20...	4.81	2.41	.7	14.4	85	102	5.62	.3	20.1	26.1	153	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
03...	5.15	2.24	.6	13.3	86	104	3.80	.3	16.4	36.3	161	188	--
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	5.75	2.58	.6	15.7	96	115	4.24	.4	17.3	41.2	179	176	.16
AUG													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--

08319000 RIO GRANDE AT SAN FELIPE, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, fltrd, mg/L (00666)	Phos-phorus, water, unfltrd mg/L (00665)	Total nitro-gen, wat unf by anal ysis, mg/L (62855)	Alum-inum, water, fltrd, ug/L (01106)	Anti-mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)
OCT													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
10...	.30	<.01	.04	.06	<.010	<.01	<.02	.03	--	E2	<.20	E2	83
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
03...	--	<.04	.04	<.06	<.008	.009	--	.048	.28	3	E.10	E2	54
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	.27	<.04	--	<.06	<.008	E.01	.017	.044	--	E1	E.10	2	57
AUG													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Beryll-ium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chrom-ium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan-ese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recover -able, ug/L (71900)	Molyb-denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen-ium, water, fltrd, ug/L (01145)
OCT													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
10...	<.06	42	<.04	<.8	.170	.7	E5	E.04	26.0	<.02	5.4	.85	<3
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
20...	--	26	--	--	--	--	17	--	--	<.02	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
03...	<.06	24	<.04	<.8	.148	1.3	7	<.08	4.9	<.02	2.5	1.21	<3
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	<.06	29	<.04	<.8	.149	1.0	<6	<.08	4.1	<.02	3.5	1.02	<3
AUG													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--

08319000 RIO GRANDE AT SAN FELIPE, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Selenium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
OCT						
27...	--	--	--	--	--	21
NOV						
17...	--	--	--	--	--	35
DEC						
11...	--	--	--	--	--	64
JAN						
29...	--	--	--	--	--	13
FEB						
10...	<3	.4	.6	3.52	93	20
27...	--	--	--	--	--	51
MAR						
17...	--	--	--	--	--	215
APR						
20...	<3	--	--	--	48	138
20...	--	--	--	--	--	221
MAY						
06...	--	--	--	--	--	412
JUN						
03...	<3	<.2	.6	1.31	78	33
07...	--	--	--	--	--	27
JUL						
09...	--	--	--	--	--	36
19...	<3	<.2	<.6	1.54	94	29
AUG						
04...	--	--	--	--	--	148
SEP						
07...	--	--	--	--	--	--

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

08324000 JEMEZ RIVER NEAR JEMEZ, NM

LOCATION.--Lat 35°39'42", long 106°44'37", 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, from 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 poor. 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	23	23	24	e19	26	117	192	31	30	18	16
2	16	23	22	24	e18	25	145	180	28	24	17	22
3	19	23	21	24	e17	25	265	191	27	22	9.3	21
4	31	23	19	e20	e17	29	355	222	27	21	11	42
5	26	23	21	e19	e18	30	275	231	27	19	16	22
6	24	21	22	e20	e17	26	292	243	25	10	18	16
7	24	22	23	e21	e19	29	292	253	22	13	16	10
8	26	21	25	24	e20	32	339	244	20	17	15	9.7
9	25	22	24	21	21	38	385	224	19	17	14	14
10	72	23	18	21	23	40	330	221	19	17	8.2	13
11	26	24	18	21	21	56	285	213	19	17	9.4	13
12	25	25	e20	22	e19	85	274	206	18	18	14	13
13	22	28	21	21	e18	91	343	174	16	11	14	12
14	21	25	23	22	22	115	325	140	16	12	17	7.6
15	20	25	23	23	e19	154	306	125	17	19	42	8.5
16	17	24	e18	24	21	176	285	122	17	21	26	12
17	18	25	e20	25	21	203	285	117	17	19	15	11
18	18	23	22	24	23	279	293	108	17	17	16	11
19	18	22	24	22	24	289	276	104	16	17	22	15
20	18	24	23	e20	24	293	255	94	15	9.8	24	17
21	17	24	24	e19	24	262	236	83	13	13	27	11
22	18	25	24	20	25	243	221	74	12	18	24	11
23	19	e17	21	e19	25	200	210	66	16	20	22	14
24	20	e18	21	e20	27	198	209	57	20	24	15	13
25	21	25	23	e19	26	197	198	50	20	35	15	13
26	22	25	e21	e17	25	176	180	51	21	29	20	16
27	21	e19	e18	e19	26	172	184	43	22	20	20	16
28	21	e16	e19	e20	28	136	197	38	21	21	20	13
29	22	e18	e20	e21	26	123	201	36	37	23	20	13
30	22	23	e21	23	---	112	205	35	35	21	19	17
31	22	---	23	24	---	108	---	34	---	19	14	---
TOTAL	709	679	665	663	633	3,968	7,763	4,171	630	593.8	557.9	442.8
MEAN	22.9	22.6	21.5	21.4	21.8	128	259	135	21.0	19.2	18.0	14.8
MAX	72	28	25	25	28	293	385	253	37	35	42	42
MIN	16	16	18	17	17	25	117	34	12	9.8	8.2	7.6
AC-FT	1,410	1,350	1,320	1,320	1,260	7,870	15,400	8,270	1,250	1,180	1,110	878

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2004, BY WATER YEAR (WY)

MEAN	34.9	37.4	29.0	28.5	35.3	90.0	257	228	64.2	31.8	44.9	33.3
MAX	109	128	58.2	50.6	77.1	301	961	1,118	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	24.8	13.5	10.5	13.3	15.8	11.1
(WY)	(1957)	(1957)	(1957)	(1977)	(1955)	(1996)	(2002)	(1996)	(1996)	(2003)	(1956)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1954 - 2004	
ANNUAL TOTAL	15,381.8		21,475.5			
ANNUAL MEAN	42.1		58.7		76.2	
HIGHEST ANNUAL MEAN					189	1973
LOWEST ANNUAL MEAN					22.1	2002
HIGHEST DAILY MEAN	207	May 26	385	Apr 9	3,160	Apr 21, 1958
LOWEST DAILY MEAN	8.1	Jul 17	7.6	Sep 14	2.1	Jul 25, 1981
ANNUAL SEVEN-DAY MINIMUM	11	Jul 1	11	Sep 12	6.0	Jul 23, 1981
MAXIMUM PEAK FLOW			972	Oct 10	a5,900	Apr 21, 1958
MAXIMUM PEAK STAGE			6.48	Oct 10	b10.10	Jul 15, 1985
INSTANTANEOUS LOW FLOW			5.0	Sep 14	1.2	Jul 25, 1981
ANNUAL RUNOFF (AC-FT)	30,510		42,600		55,220	
10 PERCENT EXCEEDS	120		205		174	
50 PERCENT EXCEEDS	23		22		33	
90 PERCENT EXCEEDS	14		15		18	

a From rating curve extended above 2,200 ft^3/s, on basis of contracted opening measurement of peak flow.
b Present datum.
e Estimated

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 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
AUG													
19...	0945	23	622	7.8	101	8.4	755	26.0	17.5	150	53.0	5.26	13.5
SEP													
16...	1023	12	622	8.6	104	8.7	831	23.5	14.5	160	53.6	5.19	13.3

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
AUG													
19...	3	78.4	200	237	3	109	1.2	44.1	9.9	435	.11	.32	<.04
SEP													
16...	3	83.1	211	E242	8	120	1.3	48.1	9.5	461	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)
AUG													
19...	<.100	<.06	<.008	E.01	.016	.066	3	.21	100	101	<.06	878	<.04
SEP													
16...	--	--	--	--	--	--	--	--	--	--	--	933	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)
AUG												
19...	<.8	.205	.5	20	E.04	18.8	4.9	.52	<3	<.2	<.6	1.55
SEP												
16...	--	--	--	22	--	--	--	--	--	--	--	--

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

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 6.0 mi north of Bernalillo.

DRAINAGE AREA.--l,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 Oct. 19, 1953. Capacity, 172,800 acre-ft, from capacity table adapted Jan. 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 telemetry 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 Mar. 1979 and Oct. 27, 2001, to present.

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 1998)

Elevation	Contents	Elevation	Contents
5,180	8,650	5,190	17,360
5,185	12,800	5,195	23,220

08329000 JEMEZ RIVER BELOW JEMEZ CANYON DAM, NM

LOCATION.--Lat 35°23'25", long 106°32'04", in NE $^1/_4$ sec.5, T.13 N., R.4 E., Sandoval County, Hydrologic Unit 13020202, on right bank 0.8 mi downstream from Jemez Canyon Dam, 2.0 mi upstream from mouth, and 6.0 mi north of Bernalillo.

DRAINAGE AREA.--1,038 mi^2.

WATER-DISCHARGE RECORDS

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 Jan. 1953.

REMARKS.--Records poor. Subsequent to October 1953, flow at this station can be completely regulated by Jemez Canyon Reservoir (station 08328500). However, reservoir is designed essentially for desilting and flood control rather than storage. Diversions for irrigation of about 3,000 acres upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood in 1900 was probably less than 16,000 ft^3/s but highest observed outside period of record.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.41	3.9	e11	e10	e11	4.6	1.8	e43	19	13	0.00	0.00
2	e0.40	3.7	e11	e14	e10	4.4	12	e45	7.4	10	0.03	0.00
3	e0.41	3.3	e12	e18	e9.0	5.9	1,590	e45	3.0	3.9	0.00	0.00
4	e0.44	2.5	e11	e18	13	35	2,410	e55	1.8	0.06	0.00	0.42
5	e0.41	5.3	e11	e17	e12	22	331	e75	0.65	0.02	0.01	384
6	e0.55	5.5	15	e16	e12	6.3	69	e100	0.26	0.00	0.00	1.8
7	e3.3	3.4	15	e15	6.6	3.1	45	e98	0.15	0.00	0.00	0.00
8	e1,090	5.4	17	e16	10	1.9	255	e110	0.22	0.00	0.00	0.00
9	e637	3.5	18	17	e5.0	2.0	465	e120	0.48	0.00	0.00	0.00
10	e587	6.5	17	16	7.3	2.4	199	e140	0.58	0.00	0.00	0.00
11	e2,000	9.4	13	16	10	2.5	914	120	1.1	0.00	0.00	0.00
12	e302	9.8	e12	8.5	e4.5	11	169	152	6.2	0.00	0.00	0.00
13	e4.8	e10	e12	6.0	13	12	118	125	2.9	0.00	0.00	0.00
14	e4.2	e9.0	13	13	10	21	175	86	3.0	0.00	158	0.00
15	e6.0	e8.0	14	19	e2.0	54	206	70	5.0	0.06	229	0.00
16	e1.7	e7.0	e4.5	19	11	136	204	68	1.2	0.03	0.03	0.00
17	0.50	e8.0	e6.0	17	6.6	159	212	106	0.10	0.00	0.00	0.00
18	0.18	e8.0	e12	14	10	e280	245	97	0.00	0.01	0.02	0.00
19	0.05	e8.0	e14	12	16	353	274	90	0.00	0.00	0.08	0.01
20	0.02	e7.0	e13	16	15	320	191	72	0.00	0.00	0.01	0.00
21	0.01	e8.0	e16	e15	18	217	143	80	0.00	0.00	29	0.00
22	0.01	e7.0	e14	16	18	173	91	67	0.00	0.00	0.00	0.00
23	e0.03	e4.3	e12	e9.0	19	78	63	58	0.00	3.1	0.00	0.00
24	0.17	e5.0	e13	4.8	30	28	59	86	0.00	72	0.00	0.00
25	e0.08	e7.0	e14	e5.0	23	29	49	49	0.00	783	0.00	9.0
26	e0.05	e10	e15	e4.0	16	11	e44	44	0.00	70	0.00	0.04
27	e0.03	e6.0	e16	e10	11	9.5	e40	68	0.00	21	0.00	0.00
28	e0.05	e2.5	e15	e16	7.7	9.6	e40	41	0.00	5.5	0.00	0.00
29	e0.07	e3.0	e14	e11	9.4	3.4	e42	38	62	0.47	0.00	0.00
30	0.08	e10	e12	e6.0	---	2.2	e44	13	428	0.00	0.00	0.00
31	1.2	---	e11	10	---	1.8	---	21	---	0.00	0.00	---
TOTAL	4,641.15	190.0	403.5	404.3	346.1	1,998.6	8,700.8	2,382	543.04	982.15	416.18	395.27
MEAN	150	6.33	13.0	13.0	11.9	64.5	290	76.8	18.1	31.7	13.4	13.2
MAX	2,000	10	18	19	30	353	2,410	152	428	783	229	384
MIN	0.01	2.5	4.5	4.0	2.0	1.8	1.8	13	0.00	0.00	0.00	0.00
AC-FT	9,210	377	800	802	686	3,960	17,260	4,720	1,080	1,950	825	784

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2004, BY WATER YEAR (WY)

MEAN	30.2	28.5	21.2	23.8	27.5	64.7	182	180	72.0	24.9	42.7	23.4
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	0.00	2.22	0.20	0.25	0.34	7.77	0.96	0.00	0.00	0.00	0.13	0.00
(WY)	(1956)	(1997)	(1985)	(1985)	(1985)	(2002)	(1996)	(1972)	(1946)	(1947)	(1950)	(1945)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1943 - 2004	
ANNUAL TOTAL	17,702.55		21,403.09			
ANNUAL MEAN	48.5		58.5		60.6	
HIGHEST ANNUAL MEAN					178	1973
LOWEST ANNUAL MEAN					10.6	1953
HIGHEST DAILY MEAN	2,000	Oct 11	2,410	Apr 4	3,640	Jun 19, 1958
LOWEST DAILY MEAN	0.01	Oct 21	0.00	Jun 18	0.00	May 24, 1943
ANNUAL SEVEN-DAY MINIMUM	0.05	Oct 19	0.00	Jun 18	0.00	May 24, 1943
MAXIMUM PEAK FLOW			3,740	Apr 3	a16,300	Aug 29, 1943
MAXIMUM PEAK STAGE			11.16	Oct 11	b11.16	Oct 11, 2003
INSTANTANEOUS LOW FLOW			0.00	Oct 23	0.00	Oct 23, 2003
ANNUAL RUNOFF (AC-FT)	35,110		42,450		43,880	
10 PERCENT EXCEEDS	108		122		148	
50 PERCENT EXCEEDS	13		8.0		18	
90 PERCENT EXCEEDS	0.10		0.00		0.00	

a From rating curve extended above 3,000 ft^3/s.
b Site and datum then in use.
e Estimated

08329000 JEMEZ RIVER BELOW JEMEZ CANYON DAM, NM—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1966 to August 1988, March 1990, October 1994 to February 1996, April 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
APR 21...	1210	154	628	9.2	108	8.0	536	19.0	13.5	130	44.2	4.31	4.40

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
APR 21...	2	60.4	99	119	50.1	.4	19.3	79.1	343	.38	2.2	.07	<.06

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)
APR 21...	<.008	<.02	.014	1.77	4	E.17	6	64	<.06	232	<.04	<.8	.298

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)
APR 21...	1.1	12	<.08	37.5	2.4	1.29	<3	<.2	E.6	1.78

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

08329840 HAHN ARROYO AT ALBUQUERQUE, NM

LOCATION.--Lat 35°07'33", long 106°35'23", in SE ¼ NE ¼ 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: 1992-98(M) (mean daily values).

GAGE.--Water-stage and recording tipping-bucket rain gage with 0.01-in. increment and concrete-lined channel. Elevation of gage is 5,190 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to 1992, at site on downstream side of San Mateo Boulevard bridge, at different datum.

REMARKS.--Records good except for those estimated, which are poor. Some minor streamflow may exist on days when 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.2	2.2	e1.0	e1.5	1.8	4.8	1.4	0.91	2.0	0.61	2.0
2	1.9	0.72	2.2	e1.0	e1.5	5.9	12	2.8	1.3	2.0	5.5	1.2
3	3.1	0.95	1.4	e1.0	e1.5	4.0	29	3.4	1.8	0.57	2.5	1.3
4	4.3	0.51	0.94	e1.0	e1.5	32	10	2.0	1.2	0.27	9.7	4.4
5	2.5	0.45	0.80	e1.0	e1.5	9.4	4.2	1.7	0.19	1.2	2.2	0.85
6	2.5	0.59	1.5	e1.0	1.4	2.5	2.6	1.7	0.29	1.1	1.5	1.8
7	20	0.90	0.94	e1.0	1.0	1.4	2.7	1.5	2.0	0.65	1.1	1.4
8	14	0.80	0.88	1.1	1.5	0.63	13	3.0	1.7	0.77	0.45	1.4
9	1.9	0.35	1.2	e1.0	1.1	1.5	6.0	0.31	1.9	1.3	1.3	1.3
10	6.0	0.75	0.68	e1.0	e1.5	1.6	9.9	2.5	2.2	0.87	5.7	1.7
11	4.2	0.40	1.2	e1.0	e1.5	2.1	2.1	1.7	1.9	3.4	1.6	0.75
12	2.4	18	2.6	1.1	e1.5	2.0	0.83	1.7	0.23	16	1.3	0.83
13	1.7	14	1.2	1.4	e1.5	1.3	1.3	2.9	0.37	2.2	1.1	7.6
14	1.1	2.2	0.43	1.2	e1.5	1.4	2.7	1.6	2.0	4.0	0.39	2.4
15	1.3	0.87	0.42	3.9	1.6	1.3	2.4	1.2	1.8	4.7	0.20	1.8
16	0.69	2.2	e1.0	3.6	0.93	2.0	1.0	2.3	1.5	3.0	1.6	2.2
17	0.99	1.1	e1.0	1.2	1.5	7.0	0.37	2.9	2.1	0.15	0.92	2.3
18	0.36	0.70	e1.0	0.91	2.6	6.2	1.7	1.6	2.2	0.31	1.3	2.3
19	1.8	1.1	e1.0	0.54	1.9	2.1	1.1	1.9	0.72	2.5	2.5	31
20	1.3	1.1	e1.0	3.5	2.2	1.0	1.2	1.9	1.2	6.5	1.3	8.4
21	1.1	1.5	1.3	1.8	5.9	1.1	0.83	1.9	3.5	1.7	1.7	1.3
22	1.2	e1.5	0.96	e1.5	0.79	2.7	0.79	1.3	3.6	2.7	1.7	1.4
23	1.3	e1.5	1.2	e1.5	24	3.2	0.99	0.62	2.5	18	1.9	1.1
24	1.9	e1.5	1.2	1.8	14	10	0.10	1.1	2.6	5.4	1.1	1.6
25	0.18	e1.5	1.3	3.0	3.0	11	0.85	0.95	3.1	13	1.3	0.54
26	0.51	1.5	1.1	e1.5	2.1	2.2	2.1	1.3	8.2	3.0	1.1	2.9
27	0.57	1.7	0.64	e1.5	3.6	0.78	1.6	1.2	0.84	18	1.4	2.6
28	0.47	e1.5	e1.0	e1.5	8.8	1.7	0.98	0.99	2.1	7.5	0.44	1.1
29	2.1	e1.5	e1.0	e1.5	0.64	3.8	1.8	0.13	14	1.6	0.74	1.9
30	1.5	1.9	e1.0	1.8	---	2.1	1.6	0.77	2.5	2.2	1.6	1.3
31	1.6	---	e1.0	1.3	---	2.2	---	2.0	---	0.39	1.2	---
TOTAL	85.67	64.49	35.29	47.15	93.56	127.91	120.54	52.27	70.45	126.98	56.95	92.67
MEAN	2.76	2.15	1.14	1.52	3.23	4.13	4.02	1.69	2.35	4.10	1.84	3.09
MAX	20	18	2.6	3.9	24	32	29	3.4	14	18	9.7	31
MIN	0.18	0.35	0.42	0.54	0.64	0.63	0.10	0.13	0.19	0.15	0.20	0.54
AC-FT	170	128	70	94	186	254	239	104	140	252	113	184
(+)	1.32	0.87	0.14	0.14	1.47	0.87	1.86	0.00	0.66	3.13	0.94	1.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)

MEAN	2.25	1.46	1.30	1.51	1.78	2.62	2.08	1.33	2.38	3.07	3.21	1.90
MAX	5.26	2.32	2.59	3.76	3.52	4.13	4.02	2.90	6.94	4.95	5.37	3.09
(WY)	(2001)	(2002)	(1998)	(2002)	(2001)	(2004)	(2004)	(2001)	(1999)	(1997)	(2001)	(2002)
MIN	0.82	0.21	0.08	0.58	0.43	1.00	1.09	0.73	0.68	1.44	1.84	0.63
(WY)	(1998)	(2000)	(2000)	(2003)	(1997)	(1997)	(2003)	(1998)	(1998)	(2000)	(2004)	(1998)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1997 - 2004	
ANNUAL TOTAL	648.43		973.93			
ANNUAL MEAN	1.78		2.66		2.08	
HIGHEST ANNUAL MEAN					3.37	2001
LOWEST ANNUAL MEAN					1.24	2000
HIGHEST DAILY MEAN	20	Oct 7	32	Mar 4	170	Jun 16, 1999
LOWEST DAILY MEAN	0.01	Aug 16	0.10	Apr 24	0.00	Dec 15, 1996
ANNUAL SEVEN-DAY MINIMUM	0.39	Apr 1	0.61	Nov 5	0.00	Nov 23, 1999
MAXIMUM PEAK FLOW			676	Jul 12	6,230	Jun 16, 1999
MAXIMUM PEAK STAGE			2.33	Jul 12	5.98	Jun 16, 1999
ANNUAL RUNOFF (AC-FT)	1,290		1,930		1,510	
10 PERCENT EXCEEDS	2.8		5.4		4.3	
50 PERCENT EXCEEDS	1.1		1.5		1.0	
90 PERCENT EXCEEDS	0.38		0.65		0.14	

(+) Total precipitation accumulation, in inches.
e Estimated

08329870 BEAR ARROYO AT JEFFERSON STREET AT ALBUQUERQUE, NM

LOCATION.--Lat 35°09'03", long 106°35'52", Bernalillo County, Hydrologic Unit 13020203, in Elena Gallegos Grant, on the right bank, 1,320 ft downstream from the Jefferson Street bridge over Bear Arroyo, approximately $\frac{1}{4}$ mi south of the intersection of Jefferson Street with Osuna Road in the northeast quadrant of Albuquerque.

DRAINAGE AREA.--Controlled by detention pond upstream.

PERIOD OF RECORD.--June 2003 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control weir. Elevation of gage is 5,130 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 567 ft^3/s, July 12, 2004, gage height, 4.66 ft, from standard design rating of concrete weir. No flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 567 ft^3/s, July 12, gage height, 4.66 ft. No flow most of time.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	17	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	13	2.6	0.00	0.00	0.00	5.0	0.00
5	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00	0.28	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	8.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	1.4	0.00	0.00	0.00	0.00	0.00	4.2	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	3.2	0.00	0.00	0.00	0.00	0.00
11	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00
12	0.00	2.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15	0.00	0.00
13	0.00	2.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e11
20	0.00	0.00	0.00	0.00	0.00	0.00	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	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	0.00	0.00	0.00	0.84	0.00	0.00
23	0.00	0.00	0.00	0.00	9.6	0.00	0.00	0.00	0.00	12	0.00	0.00
24	0.00	0.00	0.00	0.00	3.0	0.00	0.00	0.00	0.00	0.05	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.4	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	11	0.00	0.00
28	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.23	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.0	0.00	0.00	0.37
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	9.88	4.60	0.00	0.00	12.76	13.56	28.44	0.00	2.00	43.87	5.28	11.41
MEAN	0.32	0.15	0.00	0.00	0.44	0.44	0.95	0.00	0.07	1.42	0.17	0.38
MAX	8.2	2.3	0.00	0.00	9.6	13	17	0.00	2.0	15	5.0	11
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	20	9.1	0.00	0.00	25	27	56	0.00	4.0	87	10	23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	0.32	0.15	0.00	0.00	0.44	0.44	0.95	0.00	0.07	0.71	0.15	0.19
MAX	0.32	0.15	0.00	0.00	0.44	0.44	0.95	0.00	0.07	1.42	0.17	0.38
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)
MIN	0.32	0.15	0.00	0.00	0.44	0.44	0.95	0.00	0.07	0.00	0.12	0.01
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2003)

SUMMARY STATISTICS	FOR 2004 WATER YEAR		WATER YEARS 2003 - 2004	
ANNUAL TOTAL	131.80			
ANNUAL MEAN	0.36		0.36	
HIGHEST ANNUAL MEAN			0.36	2004
LOWEST ANNUAL MEAN			0.36	2004
HIGHEST DAILY MEAN	17	Apr 3	17	Apr 3, 2004
LOWEST DAILY MEAN	0.00	Oct 1	0.00	Jun 6, 2003
ANNUAL SEVEN-DAY MINIMUM	0.00	Oct 12	0.00	Jun 6, 2003
MAXIMUM PEAK FLOW	567	Jul 12	567	Jul 12, 2004
MAXIMUM PEAK STAGE	4.66	Jul 12	4.66	Jul 12, 2004
ANNUAL RUNOFF (AC-FT)	261		261	
10 PERCENT EXCEEDS	0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00	

e Estimated

08329882 PINO ARROYO AT JEFFERSON STREET AT ALBUQUERQUE, NM

LOCATION.--Lat 35°09'34", long 106°35'51", Bernalillo County, Hydrologic Unit 13020203, in the Elena Gallegos Grant, on the right bank 1,200 ft downstream from the Jefferson Street culvert over Pino Arroyo, approximately 1,200 ft north of the intersection of Jefferson St. and Osuna Road in northeast Albuquerque.

DRAINAGE AREA.--8.3 mi^2 (but is controlled by detention pond upstream).

PERIOD OF RECORD.--May 18, 2000, to Dec. 4, 2003, March 2004 to current year (seasonal records).

GAGE.--Water-stage recorder, crest-stage gage, and concrete-lined channel. Elevation of gage is 5,119 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Water-stage records good except for those estimated, which are fair. Since installation of the large static tube around the orifice on Aug. 22, 2001, only flows more than about 0.03 ft deep (1.03 on recorder) will cover the orifice sufficiently to record true water depths. This channel often shows trickle flows not related to rainfall.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 728 ft^3/s, July 12, 2004, gage height, 3.55 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 728 ft^3/s, July 12, gage height, 3.55 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.25	0.44	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
2	0.72	0.36	0.00	---	---	e1.5	1.7	0.00	0.00	0.00	0.78	0.00
3	0.82	0.26	e0.00	---	---	0.11	12	0.00	0.00	0.00	0.08	0.00
4	e1.0	0.09	e0.00	---	---	9.2	0.83	0.00	0.00	0.00	0.71	0.22
5	e0.50	0.00	---	---	---	0.37	0.00	0.00	0.01	0.00	0.09	0.02
6	e0.50	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	6.0	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	3.1	0.00	---	---	---	0.00	2.1	0.00	0.00	0.00	0.00	0.00
9	0.22	0.00	---	---	---	0.00	1.2	0.00	0.00	0.00	0.00	0.00
10	0.44	0.00	---	---	---	0.02	2.2	0.00	0.00	0.00	0.08	0.00
11	0.23	0.00	---	---	---	0.01	0.04	0.00	0.00	2.4	0.00	0.00
12	0.00	4.1	---	---	---	0.00	0.00	0.00	0.00	18	0.00	0.00
13	0.00	3.4	---	---	---	0.00	0.00	0.00	0.00	0.71	0.00	0.00
14	0.00	0.11	---	---	---	0.00	0.00	0.00	0.00	0.07	0.00	0.00
15	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.04	0.00	0.00
16	0.00	0.05	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.01	0.09	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.09	---	---	---	0.00	0.00	0.00	0.00	0.15	0.03	0.08
19	0.03	0.00	---	---	---	0.00	0.00	0.00	0.00	0.01	0.35	8.4
20	0.23	0.00	---	---	---	0.00	0.00	0.00	0.00	0.89	0.00	0.60
21	0.77	0.00	---	---	---	0.00	0.00	0.00	0.00	0.15	0.00	0.00
22	1.2	0.00	---	---	---	0.00	0.00	0.00	0.00	0.82	0.00	0.00
23	1.2	0.00	---	---	---	0.20	0.00	0.00	0.02	16	0.00	0.00
24	1.2	e0.00	---	---	---	0.02	0.00	0.00	0.00	1.3	0.00	0.00
25	1.1	0.00	---	---	---	0.00	0.00	0.00	0.00	2.5	0.00	0.00
26	1.1	e0.00	---	---	---	0.00	0.00	0.01	0.70	0.03	0.00	0.00
27	1.4	0.00	---	---	---	0.00	0.00	0.00	0.00	7.2	0.00	0.00
28	1.3	0.00	---	---	---	0.00	0.00	0.00	0.00	0.75	0.00	0.00
29	0.81	e0.00	---	---	---	0.00	0.00	0.00	5.2	0.00	0.00	3.3
30	0.75	0.00	---	---	---	0.00	0.00	0.00	0.03	0.00	0.00	0.00
31	0.44	---	---	---	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	25.32	8.99	---	---	---	---	20.07	0.01	5.96	51.02	2.12	12.62
MEAN	0.82	0.30	---	---	---	---	0.67	0.00	0.20	1.65	0.07	0.42
MAX	6.0	4.1	---	---	---	---	12	0.01	5.2	18	0.78	8.4
MIN	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	50	18	---	---	---	---	40	0.02	12	101	4.2	25

e Estimated

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 concrete-lined arroyo, approximately 100 ft upstream from a box culvert passing under Tramway Blvd., in the extreme northeast corner of Albuquerque city limits. This site is located approximately 0.2 mi south of the old gage site La Cueva Arroyo Tributary at Tramway Blvd. (08329890).

DRAINAGE AREA.--0.5103 mi^2.

PERIOD OF RECORD.--May 1999 to current year (seasonal records).

GAGE.--Water-stage recorder. A tipping-bucket rain gage recording in 0.01-inch increments is located approximately 0.25 mi north of gage. Elevation of gage is 6,080 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12 ft^3/s, Aug. 14, 2001, gage height, 1.56 ft. No flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 6.1 ft^3/s, Aug. 14, gage height, 1.45 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	---	---	---	---	0.01	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	---	---	---	---	0.06	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	---	---	---	0.01	0.04	0.00	0.00	0.00	0.01	0.00
5	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.02	0.00
7	0.02	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	---	---	---	0.00	0.02	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	---	---	---	0.00	0.01	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.01	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.06	0.00
15	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.03
20	0.00	0.00	---	---	---	0.00	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	0.00	0.00	0.00
22	0.00	0.00	---	---	---	0.00	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	0.00	0.00	0.00
24	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.03	0.00	0.00
25	0.00	0.00	---	---	---	0.00	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	0.00	0.00	0.00
27	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.02	0.00	0.00
28	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	---	---	---	0.00	0.00	0.00	0.01	0.00	0.00	0.00
30	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	---	---	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.02	0.01	---	---	---	---	0.14	0.00	0.01	0.05	0.09	0.03
MEAN	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
MAX	0.02	0.01	---	---	---	---	0.06	0.00	0.01	0.03	0.06	0.03
MIN	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.04	0.02	---	---	---	---	0.3	0.00	0.02	0.1	0.2	0.06

08329900 NORTH FLOODWAY CHANNEL NEAR ALAMEDA, NM

LOCATION.--Lat 35°11'53", long 106°35'59", Bernalillo County, Hydrologic Unit 13020203, in Elena Gallegos Grant, on left bank 0.5 mi upstream from Edith Boulevard, 1.1 mi upstream from mouth, and 1.2 mi northeast of Alameda.

DRAINAGE AREA.--87.9 mi^2.

PERIOD OF RECORD.--July 1968 to September 1989 (seasonal records). October 1989 to current year.

GAGE.--Water-stage recorder with satellite telemetry, recording rain gage, 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. Recording tipping-bucket rain gage, recording in 0.01-in. increments, since Dec. 8, 2001.

REMARKS.--Water-discharge records good except for those estimated, which are poor. For water years 1997-99, low-flow values of 15 ft^3/s or less were obtained from gaging station (08329914), 1,000 ft downstream. Prior to water year 1997, any discharges below 15 ft^3/s were reported as "zero flow" in the mean daily values tables. Floodway channel intercepts flow of numerous arroyos in northeast Albuquerque and discharges into the Rio Grande at a point 1.6 mi north of Alameda. See tabulation below for monthly precipitation, in inches.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.7	3.3	e1.0	e1.0	1.5	1.2	0.73	1.2	e2.0	0.13	2.0
2	3.2	1.5	1.7	e1.0	e1.0	6.5	54	0.72	1.2	e1.0	6.8	1.9
3	3.1	1.1	1.9	e1.0	e1.0	6.2	309	1.0	2.8	e1.0	9.9	1.5
4	4.6	1.1	1.8	e1.0	e1.0	229	62	0.95	1.2	e1.0	172	10
5	1.9	1.0	e1.5	e1.0	e1.0	36	5.7	1.0	1.2	e1.0	13	7.9
6	3.2	e1.0	1.7	e1.0	e1.0	2.9	2.7	1.9	0.76	e1.0	2.6	3.3
7	262	e1.0	2.0	e1.0	e1.0	1.9	1.9	6.5	1.0	e1.0	1.8	1.2
8	85	e1.5	2.1	0.65	e1.0	1.1	83	3.5	0.92	1.8	0.96	1.1
9	3.2	e2.0	1.7	0.52	e1.0	2.3	17	2.6	0.99	0.50	1.5	1.2
10	31	e1.0	1.6	0.53	e1.0	1.1	55	2.4	1.1	0.11	52	1.2
11	34	e1.0	1.5	1.1	1.5	1.1	11	1.3	0.97	22	4.9	1.2
12	11	e112	13	0.83	0.72	0.94	1.6	3.9	1.2	185	2.9	1.9
13	7.3	e35	4.1	0.86	e1.0	0.76	0.52	1.4	1.1	11	3.4	3.1
14	5.5	e1.5	e2.0	0.74	e1.0	0.45	0.66	1.0	2.9	11	1.4	1.3
15	2.0	e1.5	e1.5	1.5	1.8	0.49	2.4	0.86	1.1	88	0.99	1.8
16	2.3	e2.0	e1.5	2.3	1.8	0.13	0.64	1.1	0.86	6.3	1.5	1.3
17	2.6	e2.0	e1.5	1.3	1.9	1.0	0.89	1.6	2.2	0.55	1.1	1.2
18	1.0	e2.0	e1.0	1.9	1.5	0.74	0.64	1.4	1.5	0.85	1.9	1.5
19	e1.5	2.1	e1.0	2.6	1.4	0.67	0.85	1.3	0.87	0.70	8.4	214
20	e1.0	1.3	e1.0	8.5	1.7	0.79	0.57	1.2	0.86	18	3.6	33
21	1.8	2.1	e1.0	3.2	11	0.63	3.3	1.2	0.93	0.45	1.3	2.2
22	1.7	e1.5	e1.0	0.97	5.8	0.95	0.43	1.2	1.8	54	3.9	0.46
23	1.8	e1.5	e1.0	e1.0	225	0.87	0.73	0.90	4.5	371	2.7	0.61
24	1.5	e1.5	e1.0	e1.0	117	3.1	1.00	1.2	1.1	34	1.4	1.1
25	1.2	e1.5	e1.0	e10	1.2	1.3	0.88	1.2	1.2	134	2.1	1.2
26	1.5	2.1	e1.0	e1.0	e1.0	1.2	1.7	1.5	34	1.8	1.5	1.2
27	1.8	1.5	e1.0	e1.0	0.73	0.92	1.9	1.3	6.8	124	1.6	1.9
28	1.7	1.9	e1.0	e1.0	30	0.50	0.41	1.2	21	16	1.4	1.6
29	1.7	1.9	e1.0	e1.0	1.3	1.2	1.8	0.71	135	2.6	2.1	24
30	1.3	2.9	e1.0	1.00	---	0.97	0.61	0.62	18	0.53	2.1	7.4
31	0.91	---	e1.0	1.1	---	0.74	---	1.3	---	0.28	1.9	---
TOTAL	483.81	191.7	58.4	52.60	417.35	307.95	624.03	48.69	250.26	1,092.47	312.78	333.27
MEAN	15.6	6.39	1.88	1.70	14.4	9.93	20.8	1.57	8.34	35.2	10.1	11.1
MAX	262	112	13	10	225	229	309	6.5	135	371	172	214
MIN	0.91	1.0	1.0	0.52	0.72	0.13	0.41	0.62	0.76	0.11	0.13	0.46
AC-FT	960	380	116	104	828	611	1,240	97	496	2,170	620	661
(+)	1.11	0.83	0.16	0.19	1.27	0.87	1.98	0.00	0.69	1.76	0.49	1.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2004, BY WATER YEAR (WY)

MEAN	11.4	6.61	2.63	3.23	4.41	8.72	8.68	7.19	8.61	22.8	27.5	14.6
MAX	38.3	16.9	8.32	14.2	16.3	21.3	42.9	30.5	25.0	67.9	45.7	34.5
(WY)	(2001)	(1995)	(1994)	(1995)	(1993)	(2000)	(1997)	(1994)	(1996)	(1997)	(1994)	(1991)
MIN	2.16	0.00	0.00	0.00	0.00	0.55	0.78	0.92	1.42	1.17	6.54	2.15
(WY)	(1996)	(1990)	(1990)	(1990)	(1991)	(1991)	(2000)	(1998)	(1998)	(2003)	(2003)	(2000)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1990 - 2004	
ANNUAL TOTAL	2,317.41		4,173.31			
ANNUAL MEAN	6.35		11.4		10.6	
HIGHEST ANNUAL MEAN					20.2	1997
LOWEST ANNUAL MEAN					5.52	2003
HIGHEST DAILY MEAN	266	Mar 21	371	Jul 23	961	Jul 14, 1990
LOWEST DAILY MEAN	0.00	Feb 17	0.11	Jul 10	0.00	Oct 1, 1989
ANNUAL SEVEN-DAY MINIMUM	0.03	Mar 26	0.61	Mar 13	0.00	Oct 5, 1989
MAXIMUM PEAK FLOW			5,700	Jul 23	12,300	Aug 14, 1980
MAXIMUM PEAK STAGE			7.00	Jul 23	10.40	Aug 14, 1980
ANNUAL RUNOFF (AC-FT)	4,600		8,280		7,670	
10 PERCENT EXCEEDS	9.5		14		15	
50 PERCENT EXCEEDS	1.5		1.5		1.7	
90 PERCENT EXCEEDS	0.09		0.74		0.09	

(+) Total precipitation accumulation, in inches.
e Estimated

08329911 NORTH CAMINO ARROYO AT SUNSET HILLS IN ALBUQUERQUE, NM

LOCATION.--Lat 35°11'40", long 106°31'57", Bernalillo County, Hydrologic Unit 13020203, in Elena Gallegos Grant, on right bank of concrete-lined arroyo, 10 ft above Holbrook Ave. bridge over North Camino Arroyo. This is located approximately 100 ft north of intersection of Holbrook Ave. and Elena Drive, and 1.3 mi north of Paseo del Norte, on the northern edge of Albuquerque.

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 except for those estimated, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39 ft^3/s, at 1955 hours, July 23, 2001, gage height, 1.38 ft, from step-forward analysis of concrete-lined stream channel; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period of seasonal operation, 10 ft^3/s, June 29, gage height, 1.20 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	---	---	---	0.42	0.00	0.00	0.00	0.03	0.00
3	0.03	0.00	0.00	---	---	---	0.66	0.00	0.00	0.00	0.00	0.00
4	0.07	0.00	0.00	---	---	---	0.23	0.00	0.00	0.00	0.05	0.03
5	0.00	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.01	0.00
6	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
7	0.24	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
8	0.19	0.00	---	---	---	---	0.14	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	---	---	---	0.00	0.09	0.00	0.00	0.00	0.00	0.00
10	0.02	0.00	---	---	---	0.00	0.11	0.00	0.00	0.00	0.00	0.00
11	0.01	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.20	---	---	---	0.00	0.00	0.00	0.00	0.39	0.00	0.00
13	0.00	0.18	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.02	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.01	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.01	0.01	0.00
19	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	e0.10
20	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.03	0.00	e0.01
21	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.03	0.00
22	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	---	---	---	0.03	0.00	0.00	0.00	0.19	0.00	0.00
24	0.00	0.00	---	---	---	0.04	0.00	0.00	0.00	0.05	0.00	0.00
25	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.07	0.00	0.00
26	0.00	0.00	---	---	---	0.00	0.00	0.00	0.05	0.00	0.00	0.02
27	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.11	0.00	0.00
28	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	---	---	---	0.00	0.00	0.00	0.34	0.00	0.00	0.08
30	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	---	---	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.56	0.41	---	---	---	---	1.65	0.00	0.39	0.85	0.13	0.24
MEAN	0.02	0.01	---	---	---	---	0.06	0.00	0.01	0.03	0.00	0.01
MAX	0.24	0.20	---	---	---	---	0.66	0.00	0.34	0.39	0.05	0.10
MIN	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	1.1	0.8	---	---	---	---	3.3	0.00	0.8	1.7	0.3	0.5

e Estimated

08329918 RIO GRANDE AT ALAMEDA BRIDGE AT ALAMEDA, NM

LOCATION.--Lat 35°11'49", long 106°38'27", Bernalillo County, Hydrologic Unit 13020203, on upstream side of pedestrian bridge 100 ft upstream from Alameda bridge in Albuquerque, and at mile 1532.8.

DRAINAGE AREA.--17,250 mi^2, approximately, including 1,532.8 mi^2 in closed basin in San Luis Valley, CO.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 2003 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,050 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records poor. Flow completely regulated since November 1973 by Cochiti Dam (station 08317300), 47 mi upstream. Possible regulation by operation of reservoirs on Rio Chama and by flood- and silt-detention reservoirs on Galisteo Creek and Jemez River (stations 08285000, 08286900, 08317900, 08328500). Diversions upstream from station for irrigation of about 714,000 acres, several hundred of which are downstream from station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	441	337
2	---	---	---	---	---	---	---	---	---	---	448	270
3	---	---	---	---	---	---	---	---	---	---	482	238
4	---	---	---	---	---	---	---	---	---	e445	476	230
5	---	---	---	---	---	---	---	---	---	e454	471	303
6	---	---	---	---	---	---	---	---	---	e452	437	218
7	---	---	---	---	---	---	---	---	---	e472	421	235
8	---	---	---	---	---	---	---	---	---	e481	423	291
9	---	---	---	---	---	---	---	---	---	e472	454	283
10	---	---	---	---	---	---	---	---	---	e480	474	300
11	---	---	---	---	---	---	---	---	---	489	436	364
12	---	---	---	---	---	---	---	---	---	e497	364	395
13	---	---	---	---	---	---	---	---	---	e495	329	445
14	---	---	---	---	---	---	---	---	---	e474	337	399
15	---	---	---	---	---	---	---	---	---	e478	358	328
16	---	---	---	---	---	---	---	---	---	e482	422	236
17	---	---	---	---	---	---	---	---	---	489	557	211
18	---	---	---	---	---	---	---	---	---	529	529	201
19	---	---	---	---	---	---	---	---	---	522	375	177
20	---	---	---	---	---	---	---	---	---	494	327	150
21	---	---	---	---	---	---	---	---	---	521	309	169
22	---	---	---	---	---	---	---	---	---	505	298	176
23	---	---	---	---	---	---	---	---	---	445	303	191
24	---	---	---	---	---	---	---	---	---	436	312	198
25	---	---	---	---	---	---	---	---	---	426	321	215
26	---	---	---	---	---	---	---	---	---	419	368	208
27	---	---	---	---	---	---	---	---	---	406	332	214
28	---	---	---	---	---	---	---	---	---	412	369	224
29	---	---	---	---	---	---	---	---	---	443	496	215
30	---	---	---	---	---	---	---	---	---	473	393	269
31	---	---	---	---	---	---	---	---	---	470	731	---

e Estimated

08329918 RIO GRANDE AT ALAMEDA BRIDGE AT ALAMEDA, NM--Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	273	229	489	350	426	487	e1,790	e1,080	1,170	423	436	242
2	260	242	458	368	439	416	1,620	e1,050	1,140	358	521	241
3	233	242	474	448	452	423	2,160	1,330	927	331	417	219
4	277	e260	512	e467	464	689	2,730	1,850	639	331	436	205
5	272	e315	505	e458	475	690	1,850	2,260	576	342	293	269
6	293	e340	445	e451	509	572	2,030	2,520	553	371	187	185
7	866	e350	471	425	507	507	2,100	2,960	572	355	135	213
8	1,540	e350	469	e365	493	487	2,130	3,380	889	343	126	271
9	410	e348	512	e410	499	489	2,070	3,420	1,060	342	132	286
10	393	e350	611	e445	478	492	2,160	3,330	984	371	208	239
11	927	e350	551	e472	486	502	2,250	3,310	813	389	258	240
12	422	e390	488	480	442	471	1,950	3,300	761	673	267	213
13	278	e540	469	456	e438	518	1,670	3,450	633	536	305	218
14	230	e490	414	411	e431	531	1,660	3,460	618	441	404	225
15	226	440	404	e416	e422	582	1,570	3,440	627	532	614	230
16	218	455	506	e433	e417	947	1,310	3,420	598	431	410	235
17	199	457	422	472	e434	1,150	1,220	3,090	504	357	327	223
18	214	456	464	507	447	1,140	1,250	2,860	507	364	285	197
19	206	437	412	528	443	1,220	1,270	2,730	567	522	238	400
20	198	454	420	e533	425	1,130	1,570	e2,110	576	574	204	340
21	195	453	410	e546	415	1,090	1,590	2,280	569	540	253	252
22	199	452	414	e572	433	e1,070	1,600	2,200	562	554	293	218
23	173	458	543	e566	e720	e1,050	1,380	2,150	533	1,110	312	180
24	184	457	766	526	e940	e1,100	1,230	2,000	539	731	340	159
25	188	497	713	484	597	e1,200	e1,020	1,970	482	1,210	350	162
26	184	546	706	505	570	1,540	e978	1,760	449	551	338	157
27	208	540	e660	e534	570	1,640	e987	1,690	496	617	258	146
28	176	546	e652	497	525	1,660	917	1,530	405	537	304	137
29	189	402	609	427	540	1,640	900	1,530	621	361	278	149
30	171	474	419	435	---	e1,770	1,020	1,400	681	336	266	180
31	189	---	341	401	---	e1,810	---	1,240	---	297	258	---

e Estimated

RIO GRANDE AT ALAMEDA BRIDGE AT ALAMEDA, NM

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February to July 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Calcium water unfltrd recoverable, mg/L (00916)	Magnesium, water, fltrd, mg/L (00925)
FEB													
18...	1340	413	639	10.6	108	8.2	375	18.5	8.5	130	41.8	46.7	6.58
APR													
26...	1450	1,190	643	8.2	101	8.1	317	22.5	17.0	100	33.1	--	4.73
JUL													
20...	1230	612	639	6.8	104	8.3	288	33.0	27.5	110	33.9	--	5.25

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Magnesium, water, unfltrd recoverable, mg/L (00927)	Potassium, water, fltrd, mg/L (00935)	Potassium, water, unfltrd recoverable, mg/L (00937)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, water, unfltrd recoverable, mg/L (00929)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)
FEB													
18...	8.07	3.54	4.1	1	31.9	30.6	129	156	13.6	.5	23.1	45.7	244
APR													
26...	--	2.78	--	1	22.4	--	94	112	13.3	.3	19.7	38.9	191
JUL													
20...	--	2.64	--	.7	15.9	--	91	108	4.55	.3	16.6	41.4	174

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Aluminum, water, fltrd, ug/L (01106)
FEB													
18...	250	.13	.35	<.04	.08	E.004	.03	.038	.141	5.4	480	200	2
APR													
26...	207	.21	.58	<.04	.07	<.008	<.02	.027	.27	--	E110	E230	3
JUL													
20...	170	.17	.37	<.04	<.06	<.008	.02	.025	.099	--	E50	23	4

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Aluminum, water, unfltrd recoverable, ug/L (01105)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Arsenic water unfltrd ug/L (01002)	Barium, water, fltrd, ug/L (01005)	Barium, water, unfltrd recoverable, ug/L (01007)	Beryllium, water, fltrd, ug/L (01010)	Beryllium, water, unfltrd recoverable, ug/L (01012)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, fltrd, ug/L (01030)	Chromium, water, unfltrd recoverable, ug/L (01034)
FEB													
18...	1,700	E.10	4	5	74	108	<.06	<.60	86	E.02	<.2	<.8	.9
APR													
26...	--	E.12	E1	--	62	--	<.06	--	65	<.04	--	<.8	--
JUL													
20...	--	E.12	3	--	54	--	<.06	--	28	<.04	--	1.0	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recoverable, ug/L (01042)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recoverable, ug/L (01045)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recoverable, ug/L (01051)	Lithium water unfltrd recoverable, ug/L (01132)	Manganese, water, fltrd, ug/L (01056)	Manganese, water, unfltrd recoverable, ug/L (01055)	Mercury water, unfltrd recoverable, ug/L (71900)	Molybdenum, water, fltrd, ug/L (01060)	Molybdenum, water, unfltrd recoverable, ug/L (01062)
FEB													
18...	.195	.8	M	E3	1,480	E.04	1.9	78	2.5	67.1	<.02	5.7	5
APR													
26...	.185	.9	--	9	--	E.07	--	--	3.0	--	--	3.0	--
JUL													
20...	.171	1.2	--	<6	--	<.08	--	--	2.2	--	--	3.7	--

RIO GRANDE AT ALAMEDA BRIDGE AT ALAMEDA, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd recover-able, ug/L (01067)	Selen-ium, water, fltrd, ug/L (01145)	Selen-ium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd recover-able, ug/L (01077)	Stront-ium, water, unfltrd recover-able, ug/L (01082)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover-able, ug/L (01092)	Gross beta radioac water unfltrd pCi/L (85817)	Tritium 2-sigma water unfltrd pCi/L (75985)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)
FEB													
18...	.95	2.5	<3	<3	<.2	<.3	350	1.3	7	7	1.3	3.27	--
APR													
26...	1.03	--	<3	--	<.2	--	--	1.0	--	--	--	2.16	66
JUL													
20...	1.02	--	<3	--	<.2	--	--	E.4	--	--	--	1.75	80

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Sus-pended sedi-ment concen-tration mg/L (80154)
FEB	
18...	--
APR	
26...	585
JUL	
20...	102

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	1,2-Di-phenyl-hydra-zine, water, unfltrd ug/L (82626)	2,4,6-Tri-chloro-phenol, water, unfltrd ug/L (34621)	2,4-Di-chloro-phenol, water, unfltrd ug/L (34601)	2,4-Di-methyl-phenol, water, unfltrd ug/L (34606)	2,4-Di-nitro-phenol, water, unfltrd ug/L (34616)	2,4-Di-nitro-toluene water unfltrd ug/L (34611)	2,6-Di-nitro-toluene water unfltrd ug/L (34626)	2-Chloro-naphth-alene, water, unfltrd ug/L (34581)	2-chloro-phenol, water, unfltrd ug/L (34586)	2-Methyl-4,6-di-nitro-phenol, wat unf ug/L (34657)	2-nitro-phenol, water unfltrd ug/L (34591)	3,3-Di'chloro-benzi-dine, water, unfltrd ug/L (34631)
FEB													
18...	1340	<2	<1	<2	<2.0	<3	<1	<2	<1	<1	<2	<1	<.9

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	4-Bromo-phenyl phenyl ether, wat unf ug/L (34636)	4-Chloro-3-methyl-phenol, wat unf ug/L (34452)	4-Chloro-phenyl phenyl ether, wat unf ug/L (34641)	4-Nitro-phenol, water, unfltrd ug/L (34646)	9H-Fluor-ene, water, unfltrd ug/L (34381)	Ace-naphth-ene, water, unfltrd ug/L (34205)	Ace-naphth-ylene, water, unfltrd ug/L (34200)	Aldrin, water, unfltrd ug/L (39330)	alpha-Endo-sulfan, water, unfltrd ug/L (39388)	Anthra-cene, water, unfltrd ug/L (34220)	Benzi-dine, water, unfltrd ug/L (39120)	Benzo-[a]-anthra-cene, water, unfltrd ug/L (34526)	Benzo-[a]-pyrene, water, unfltrd ug/L (34247)
FEB													
18...	<2	<2	<1	<2	<1	<2	<2	<.01	<.03	<2	<1,000	<2	<1

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Benzo-[b]-fluor-anthene water unfltrd ug/L (34230)	Benzo-[g,h,i]-per-ylene, water, unfltrd ug/L (34521)	Benzo-[k]-fluor-anthene water unfltrd ug/L (34242)	Benzyl n-butyl phthal-ate, water, unfltrd ug/L (34292)	Bis(2-chloro-ethoxy) methane water unfltrd ug/L (34278)	Bis(2-chloro-ethyl) ether, water, unfltrd ug/L (34273)	Bis(2-chloro-iso-propyl) ether, wat unf ug/L (34283)	Bis(2-ethyl-hexyl) phthal-ate, wat unf ug/L (39100)	Chlor-dane, tech-nical, water, unfltrd ug/L (39350)	Chrys-ene, water, unfltrd ug/L (34320)	Di-benzo-[a,h]-anthra-cene, wat unf ug/L (34556)	Diel-drin, water, unfltrd ug/L (39380)	Di-ethyl phthal-ate, water, unfltrd ug/L (34336)
FEB													
18...	<2	<2	<1	<2	<1	<1	<1	<2	<.1	<1	<2	<.016	<2

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Di-methyl phthal-ate, water, unfltrd ug/L (34341)	Di-n-butyl phthal-ate, water, unfltrd ug/L (39110)	Di-n-octyl phthal-ate, water, unfltrd ug/L (34596)	Endrin, water, unfltrd ug/L (39390)	Fluor-anthene water unfltrd ug/L (34376)	Hepta-chlor epoxide water unfltrd ug/L (39420)	Hepta-chlor, water, unfltrd ug/L (39410)	Hexa-chloro-benzene water unfltrd ug/L (39700)	Hexa-chloro-cyclo-penta-diene, wat unf ug/L (34386)	Indeno-[1,2,-3-cd]-pyrene, water, unfltrd ug/L (34403)	Iso-phorone water unfltrd ug/L (34408)	Lindane water, unfltrd ug/L (39340)	Mirex, water, unfltrd ug/L (39755)
FEB													
18...	<1	<2	<2	<.01	<1	<.009	<.01	<1	<1	<2	M	<.014	<.006

RIO GRANDE AT ALAMEDA BRIDGE AT ALAMEDA, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Nitro-benzene water unfltrd ug/L (34447)	N-NItroso-di-methyl-amine, wat unf ug/L (34438)	N-NItroso-di-n-propyl-amine, wat unf ug/L (34428)	N-NItroso-di-phenyl-amine, wat unf ug/L (34433)	p,p'-DDD, water, unfltrd ug/L (39360)	p,p'-DDE, water, unfltrd ug/L (39365)	p,p'-DDT, water, unfltrd ug/L (39370)	p,p'-Meth-oxy-chlor, water, unfltrd ug/L (39480)	PCBs, water, unfltrd ug/L (39516)	Phenan-threne, water, unfltrd ug/L (34461)	Phenol, water, unfltrd ug/L (34694)	Pyrene, water, unfltrd ug/L (34469)	Toxa-phene, water, unfltrd ug/L (39400)
FEB 18...	<1	<2	<2	<2	<.016	<.014	<.010	<.006	<.1	<1	<1.6	<2	<1

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Xylenes water unfltrd ug/L (81551)	1,1,1,2-Tetra-chloro-ethane, water, unfltrd ug/L (77562)	1,1,1-Tri-chloro-ethane, water, unfltrd ug/L (34506)	1,1,2,2-Tetra-chloro-ethane, water, unfltrd ug/L (34516)	CFC-113 water unfltrd ug/L (77652)	1,1,2-Tri-chloro-ethane, water, unfltrd ug/L (34511)	1,1-Di-chloro-ethane, water unfltrd ug/L (34496)	1,1-Di-chloro-ethene, water, unfltrd ug/L (34501)	1,1-Di-chloro-propene water unfltrd ug/L (77168)	1,2,3-Tri-chloro-benzene water unfltrd ug/L (77613)	1,2,3-Tri-chloro-propane water unfltrd ug/L (77443)	1,2,4-Tri-chloro-benzene water unfltrd ug/L (34551)	1,2,4-Tri-methyl-benzene water unfltrd ug/L (77222)
FEB 18...	<.2	<.2	<.1	<.2	<.1	<.2	<.1	<.1	<.2	<.2	<.2	<.2	<.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Dibromo chloro-propane water unfltrd ug/L (82625)	1,2-Di-bromo-ethane, water, unfltrd ug/L (77651)	1,2-Di-chloro-benzene water unfltrd ug/L (34536)	1,2-Di-chloro-ethane, water, unfltrd ug/L (32103)	1,2-Di-chloro-propane water unfltrd ug/L (34541)	1,3,5-Tri-methyl-benzene water unfltrd ug/L (77226)	1,3-Di-chloro-benzene water unfltrd ug/L (34566)	1,3-Di-chloro-propane water unfltrd ug/L (77173)	1,4-Di-chloro-benzene water unfltrd ug/L (34571)	2,2-Di-chloro-propane water unfltrd ug/L (77170)	2-Chloro-toluene water unfltrd ug/L (77275)	4-Chloro-toluene water unfltrd ug/L (77277)	4-Iso-propyl-toluene water unfltrd ug/L (77356)
FEB 18...	<.5	<.2	<.1	<.2	<.1	<.2	<.1	<.2	<.1	<.2	<.2	<.2	<.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Acrylo-nitrile water unfltrd ug/L (34215)	Benzene water unfltrd ug/L (34030)	Bromo-benzene water unfltrd ug/L (81555)	Bromo-chloro-methane water unfltrd ug/L (77297)	Bromo-di-chloro-methane water unfltrd ug/L (32101)	Bromo-methane water unfltrd ug/L (34413)	Chloro-benzene water unfltrd ug/L (34301)	Chloro-ethane, water, unfltrd ug/L (34311)	Chloro-methane water unfltrd ug/L (34418)	cis-1,2-Di-chloro-ethene, water, unfltrd ug/L (77093)	cis-1,3-Di-chloro-propene water unfltrd ug/L (34704)	Di-bromo-chloro-methane water unfltrd ug/L (32105)	Di-bromo-methane water unfltrd ug/L (30217)
FEB 18...	<2.5	<.1	<.2	<.2	<.1	<.3	<.1	<.2	<.2	<.1	<.2	<.2	<.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Di-chloro-di-fluoro-methane wat unf ug/L (34668)	Di-chloro-methane water unfltrd ug/L (34423)	Ethyl-benzene water unfltrd ug/L (34371)	Hexa-chloro-buta-diene, water, unfltrd ug/L (39702)	Hexa-chloro-ethane, water, unfltrd ug/L (34396)	Iso-propyl-benzene water unfltrd ug/L (77223)	Naphth-alene, water, unfltrd ug/L (34696)	n-Butyl benzene water unfltrd ug/L (77342)	n-propyl-benzene water unfltrd ug/L (77224)	sec-Butyl-benzene water unfltrd ug/L (77350)	Styrene water unfltrd ug/L (77128)	Methyl t-butyl ether, water, unfltrd ug/L (78032)	tert-Butyl-benzene water unfltrd ug/L (77353)
FEB 18...	<.2	<.2	<.1	<.2	<2	<.2	<.5	<.2	<.2	<.2	<.1	<.2	<.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Tetra-chloro-ethene, water, unfltrd ug/L (34475)	Tetra-chloro-methane water unfltrd ug/L (32102)	Toluene water unfltrd ug/L (34010)	trans-1,2-Di-chloro-ethene, water, unfltrd ug/L (34546)	trans-1,3-Di-chloro-propene water unfltrd ug/L (34699)	Tri-bromo-methane water unfltrd ug/L (32104)	Tri-chloro-ethene, water, unfltrd ug/L (39180)	Tri-chloro-fluoro-methane water unfltrd ug/L (34488)	Tri-chloro-methane water unfltrd ug/L (32106)	Vinyl chlor-ide, water, unfltrd ug/L (39175)
FEB 18...	<.1	<.2	<.1	<.1	<.2	<.2	<.1	<.2	<.1	<.2

Remark codes used in this table:
< -- Less than
M -- Presence verified, not quantified

08329935 ARROYO 19A AT ALBUQUERQUE, NM

LOCATION.--Lat 35°09'24", long 106°43'50", in NE ¼ NE ¼ 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 rain gage with 0.01-in. increment. The control at the site is a Parshall flume. Elevation of gage is 5,341 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 19, 1986, at site 450 ft downstream at different datum.

REMARKS.--Records good. Recording rain gage at station. The basin drains undeveloped semidesert terrain above the escarpment west of Albuquerque. See tabulation below for monthly precipitation, in inches. No flow most of time.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 234 ft^3/s, Aug. 2, 1999, gage height, 2.93 ft, on basis of 2 slope-area measurements of peak flow needed to extend rating beyond flume capacity. No flow most of time.

EXTREMES FOR CURRENT YEAR.--Only one flow in water year, discharge, 0.11 ft^3/s, Sept. 29, gage height, 1.08 feet.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	---	---	---	0.00	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	0.00	0.00	0.00
22	0.00	0.00	---	---	---	0.00	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	0.00	0.00	0.00
24	0.00	0.00	---	---	---	0.00	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	0.00	0.00	0.00
26	0.00	0.00	---	---	---	0.00	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	0.00	0.00	0.00
28	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	---	---	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
MAX	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
MIN	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
(+)	1.16	0.75	0.14	0.16	1.22	0.92	2.81	0.00	0.58	1.66	0.23	1.39

(+) Total precipitation accumulation, in inches.

083299375 MARIPOSA DIVERSION OF SAN ANTONIO ARROYO AT ALBUQUERQUE, NM

LOCATION.--Lat 35°08'24", long 106°42'17", in SE ¼ NE ¼ of sec.35, T.11 N., R.2 E., Bernalillo County, Hydrologic Unit 13020203, 1,500 ft upstream from the San Antonio underpass at Coors Blvd. on west side of Albuquerque, 1.1 mi north of Interstate 25 and Coors Blvd. intersection.

DRAINAGE AREA.--30.5 mi^2.

PERIOD OF RECORD.--Summer 1993 to September 1999 (only recorded flow events during water-quality sampling). October 1999 to current year.

GAGE.--Water-stage recorder and crest-stage gage referenced to outside staff gage. Elevation of gage is 5,100 ft above the National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for those estimated, which are poor. No flows will occur unless significant precipitation falls in the watershed.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.11	19	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	5.4	4.6	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.45	0.21	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	4.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	2.2	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	0.00	0.00	0.00
9	0.09	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	0.00	0.00	0.00
12	0.00	0.36	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
13	0.00	1.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e1.4
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9	0.00	0.00
23	0.00	0.00	0.00	0.00	2.7	0.00	0.00	0.00	0.00	0.65	0.00	0.00
24	0.00	0.00	0.00	0.00	4.8	0.00	0.00	0.00	0.00	0.08	0.00	0.00
25	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	3.2	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.3	0.00	0.00	e3.9
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.01	0.00	0.00	e1.6
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	7.19	1.89	0.00	0.00	7.55	5.96	28.96	0.00	2.31	5.92	0.00	6.90
MEAN	0.23	0.06	0.00	0.00	0.26	0.19	0.97	0.00	0.08	0.19	0.00	0.23
MAX	4.9	1.5	0.00	0.00	4.8	5.4	19	0.00	2.3	3.2	0.00	3.9
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	14	3.7	0.00	0.00	15	12	57	0.00	4.6	12	0.00	14
(+)	1.16	0.75	0.14	0.16	1.22	0.92	2.81	0.00	0.58	1.66	0.23	1.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	0.22	0.07	0.01	0.01	0.05	0.15	0.20	0.00	0.08	0.09	0.14	0.13
MAX	0.55	0.25	0.03	0.03	0.26	0.28	0.97	0.01	0.30	0.19	0.36	0.42
(WY)	(2001)	(2001)	(2003)	(2001)	(2004)	(2003)	(2004)	(2001)	(2000)	(2004)	(2002)	(2002)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(2002)	(2000)	(2002)	(2000)	(2000)	(2002)	(2002)	(2000)	(2001)	(2002)	(2004)	(2000)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL TOTAL	22.05		66.68			
ANNUAL MEAN	0.06		0.18		0.10	
HIGHEST ANNUAL MEAN					0.18	2004
LOWEST ANNUAL MEAN					0.07	2002
HIGHEST DAILY MEAN	4.9	Oct 7	19	Apr 3	19	Apr 3, 2004
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1999
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 10	0.00	Oct 1, 1999
MAXIMUM PEAK FLOW			51	Apr 3	251	Aug 2, 1999
MAXIMUM PEAK STAGE			2.67	Apr 3	4.80	Aug 2, 1999
ANNUAL RUNOFF (AC-FT)	44		132		69	
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated
(+) Total precipitation 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 rain gage with 0.01-in. increment. Elevation of gage is 5,312 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to June 5, 1986, at site 0.2 mi downstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 195 ft^3/s, Aug. 2, 1999, gage height, 4.12 ft, from slope-area indirect measurement; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Only one flow this water year. Maximum discharge, 4.8 ft^3/s, July 25, gage height, 2.43 ft; no flow most of time.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	---	---	---	0.00	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	0.00	0.00	0.00
22	0.00	0.00	---	---	---	0.00	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	0.00	0.00	0.00
24	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.02	0.00	0.00
25	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.08	0.00	0.00
26	0.00	0.00	---	---	---	0.00	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	0.00	0.00	0.00
28	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	---	---	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.10	0.00	0.00
MEAN	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
MAX	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.08	0.00	0.00
MIN	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.2	0.00	0.00
(+)	1.03	0.84	0.27	0.26	1.69	1.60	3.58	0.03	0.22	1.36	0.17	0.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2004, BY WATER YEAR (WY)

MEAN	0.01	0.00	---	---	---	---	0.00	0.00	0.00	0.02	0.03	0.01
MAX	0.10	0.00	---	---	---	---	0.00	0.00	0.10	0.14	0.19	0.11
(WY)	(1982)	(1983)	---	---	---	---	(1983)	(1992)	(1988)	(1991)	(1999)	(1990)
MIN	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1983)	(1983)	---	---	---	---	(1983)	(1982)	(1981)	(1981)	(1982)	(1982)

SUMMARY STATISTICS — WATER YEARS 1981 - 2004

HIGHEST DAILY MEAN	5.6	Aug 1, 1989
LOWEST DAILY MEAN	0.00	May 28, 1981
ANNUAL SEVEN-DAY MINIMUM	0.00	May 28, 1981
MAXIMUM PEAK FLOW	195	Aug 2, 1999
MAXIMUM PEAK STAGE	4.12	Aug 2, 1999

(+) Total precipitation 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 Avenue Bridge in Albuquerque, and at mi 1,540.0.

DRAINAGE AREA.--17,440 mi^2, approximately, including 2,940 mi^2 in closed basin in San Luis Valley, Colorado.

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 regulated since Nov. 1973 by Cochiti Dam (station 08317300), 50 mi upstream. Some 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. Data were not provided by time of printing.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	207	501	409	480	573	1,690	1,020	e947	456	217	142
2	161	221	522	454	476	548	1,490	1,010	864	369	343	129
3	131	222	543	509	478	567	2,310	980	751	335	332	124
4	164	236	565	545	489	789	2,700	1,470	633	323	244	124
5	173	274	576	531	503	705	1,990	1,990	569	338	330	177
6	166	324	548	516	530	604	2,010	2,110	579	332	201	169
7	268	346	542	483	529	593	2,220	2,360	596	341	129	142
8	885	348	544	434	515	585	2,260	2,880	681	322	125	180
9	384	346	558	451	519	572	2,100	3,030	807	335	117	227
10	281	350	595	480	525	535	2,150	2,840	783	360	130	187
11	473	350	588	500	523	548	2,390	2,750	690	400	261	160
12	320	375	561	506	507	541	2,090	2,760	633	397	278	153
13	211	546	514	508	465	577	1,800	3,070	590	559	309	151
14	162	436	474	493	469	593	1,800	3,120	561	373	382	160
15	148	424	499	484	461	595	1,750	3,040	541	360	512	163
16	138	415	543	497	462	815	1,430	3,010	528	426	354	170
17	121	415	566	531	468	1,030	1,220	2,560	479	348	254	167
18	131	433	563	546	478	1,060	1,190	2,150	462	334	217	155
19	140	442	534	547	469	1,130	1,120	2,100	495	395	170	308
20	129	453	529	557	459	1,050	1,440	1,870	524	456	151	315
21	118	453	545	573	461	1,010	1,510	2,010	526	439	166	224
22	124	447	537	584	473	1,000	1,530	2,170	532	435	231	188
23	117	449	569	590	482	982	1,200	2,190	506	624	217	158
24	119	451	657	564	940	1,030	1,000	2,040	509	909	228	132
25	126	519	670	531	633	1,130	917	1,910	464	959	238	132
26	134	585	646	522	614	1,400	893	1,620	441	458	240	110
27	175	583	640	536	608	1,550	894	1,460	478	335	214	110
28	178	582	e643	545	565	1,660	828	1,280	428	446	241	104
29	152	528	e543	515	601	1,620	820	1,200	551	260	258	110
30	147	497	e424	481	---	1,630	914	e1,070	571	205	224	147
31	160	---	398	477	---	1,660	---	e991	---	199	175	---
TOTAL	6,300	12,257	17,137	15,899	15,182	28,682	47,656	64,061	17,719	12,828	7,488	4,918
MEAN	203	409	553	513	524	925	1,589	2,066	591	414	242	164
MAX	885	585	670	590	940	1,660	2,700	3,120	947	959	512	315
MIN	117	207	398	409	459	535	820	980	428	199	117	104
AC-FT	12,500	24,310	33,990	31,540	30,110	56,890	94,530	127,100	35,150	25,440	14,850	9,750

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2004, BY WATER YEAR (WY)

MEAN	473	904	971	905	1,006	1,214	1,911	3,010	2,665	1,411	782	583
MAX	1,802	2,302	2,276	2,159	3,562	2,790	6,343	6,203	6,113	5,439	3,452	1,554
(WY)	(1998)	(1987)	(1987)	(1986)	(1986)	(1986)	(1985)	(1980)	(1983)	(1979)	(1986)	(1986)
MIN	38.4	145	441	443	480	424	137	148	336	287	242	51.4
(WY)	(1978)	(1990)	(2003)	(2003)	(2003)	(2003)	(1977)	(1977)	(1989)	(1974)	(2004)	(1974)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1974 - 2004	
ANNUAL TOTAL	160,451		250,127			
ANNUAL MEAN	440		683		a1,320	
HIGHEST ANNUAL MEAN					2,486	1987
LOWEST ANNUAL MEAN					356	1977
HIGHEST DAILY MEAN	1,260	May 16	3,120	May 14	8,650	Apr 24, 1985
LOWEST DAILY MEAN	117	Sep 20	104	Sep 28	0.00	May 30, 1977
ANNUAL SEVEN-DAY MINIMUM	124	Oct 20	121	Sep 24	0.00	May 30, 1977
MAXIMUM PEAK FLOW			3,590	Apr 3	b25,000	Apr 24, 1942
MAXIMUM PEAK STAGE			5.14	Apr 3	7.82	Aug 10, 1967
INSTANTANEOUS LOW FLOW			91	Oct 17	0.00	May 30, 1977
ANNUAL RUNOFF (AC-FT)	318,300		496,100		956,200	
10 PERCENT EXCEEDS	641		1,660		3,380	
50 PERCENT EXCEEDS	437		506		803	
90 PERCENT EXCEEDS	168		159		305	

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.
e Estimated

08330000 RIO GRANDE AT ALBUQUERQUE, NM—Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	Turbidity, NTU (00076)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Suspended sediment concentration mg/L (80154)
OCT												
27...	1000	230	--	140	642	10.4	102	8.0	413	10.2	7.0	264
NOV												
20...	1315	463	--	110	636	10.5	121	7.3	448	13.5	13.5	246
DEC												
05...	1152	581	--	110	--	--	--	8.2	457	6.8	2.8	--
JAN												
29...	1320	513	--	64	635	10.7	101	8.0	434	10.0	5.2	175
FEB												
25...	1138	617	--	6.1	631	11.6	120	8.3	532	12.5	8.4	--
MAR												
18...	1205	979	--	630	638	10.1	114	8.1	350	21.3	12.5	--
APR												
19...	1430	1,110	--	480	642	8.2	89	7.7	347	23.9	11.2	--
MAY												
10...	1420	2,790	--	--	--	--	--	--	--	--	--	895
10...	1425	2,770	--	130	636	7.3	91	7.6	294	21.6	17.0	--
JUN												
23...	1215	488	28	--	641	7.4	97	8.0	287	25.6	20.0	--
23...	1220	488	--	--	--	--	--	--	--	--	--	99
JUL												
12...	1230	423	100	--	641	6.6	96	8.0	308	30.5	25.0	--
AUG												
13...	1140	304	--	--	--	--	--	--	--	--	--	1,810
13...	1205	304	1,700	--	636	7.0	101	8.0	363	26.6	24.5	--
SEP												
09...	1240	225	550	--	635	7.6	105	8.2	366	--	22.0	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Mean stream depth, feet (00064)	Instantaneous discharge, cfs (00061)	Stream velocity, ft/s (00055)	Stream width, feet (00004)	Temperature, water, deg C (00010)	Suspnd. sediment, falldia dst wat percent <.002mm (70337)	Suspnd. sediment, falldia dst wat percent <.004mm (70338)	Suspnd. sediment, falldia dst wat percent <.008mm (70339)	Suspnd. sediment, falldia dst wat percent <.016mm (70340)	Suspnd. sediment, falldia dst wat percent <.063mm (70342)	Suspnd. sediment, falldia dst wat percent <.125mm (70343)	Suspnd. sediment, falldia dst wat percent <.25mm (70344)
OCT													
17...	1305	.73	129	.93	190	18.0	--	--	--	--	--	--	--
NOV													
10...	1520	.91	341	1.46	234	16.1	--	--	--	--	94	95	98
DEC													
05...	1136	1.7	579	1.86	177	3.0	--	--	--	--	64	70	81
JAN													
09...	1210	1.2	483	1.65	267	6.0	71	85	86	95	--	--	--
FEB													
25...	1227	1.4	623	1.84	239	8.4	--	--	--	--	90	94	100
MAR													
18...	1110	1.8	931	2.02	253	12.5	45	53	58	71	90	94	97
APR													
19...	1440	2.0	1,190	2.72	210	11.2	49	58	61	70	86	88	90
MAY													
10...	1455	4.0	2,720	3.06	220	17.0	--	--	--	--	48	76	86
JUN													
02...	1215	1.0	893	1.74	251	23.9	--	--	--	--	--	--	--
JUL													
12...	1220	1.3	470	1.85	193	25.0	--	--	--	--	91	94	97

08330000 RIO GRANDE AT ALBUQUERQUE, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Suspnd. sedi-ment, falldia dst wat percent <.5 mm (70345)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Suspnd. sedi-ment, sieve diametr percent <1 mm (70335)	Suspnd. sedi-ment, sieve diametr percent <2 mm (70336)	Sus-pended sedi-ment concen-tration mg/L (80154)
OCT					
17...	--	99	--	--	769
NOV					
10...	100	94	100	--	166
DEC					
05...	97	64	97	100	138
JAN					
09...	--	98	100	--	561
FEB					
25...	--	90	100	--	351
MAR					
18...	100	--	--	--	1,240
APR					
19...	95	--	96	100	956
MAY					
10...	99	--	100	--	833
JUN					
02...	--	--	--	--	--
JUL					
12...	100	--	--	--	200

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Mean stream depth, feet (00064)	Instan-taneous dis-charge, cfs (00061)	Stream veloc-ity, ft/s (00055)	Stream width, feet (00004)	Temper-ature, water, deg C (00010)	Bed sedi-ment, dry svd sve dia percent <.063mm (80164)	Bed sedi-ment, dry svd sve dia percent <.125mm (80165)	Bed sedi-ment, dry svd sve dia percent <.25mm (80166)	Bed sedi-ment, dry svd sve dia percent <.5 mm (80167)	Bed sedi-ment, dry svd sve dia percent <1 mm (80168)	Bed sedi-ment, dry svd sve dia percent <2 mm (80169)	Bed sedi-ment, dry svd sve dia percent <4 mm (80170)
OCT													
17...	1310	.73	129	.93	190	18.0	2	8	24	64	91	98	100
NOV													
10...	1600	.91	341	1.46	234	16.1	1	2	13	55	87	97	100
DEC													
05...	1136	1.7	579	1.86	177	2.8	4	9	24	72	94	98	99
JAN													
09...	1210	1.2	483	1.65	246	6.0	.0	2	18	61	92	98	100
FEB													
25...	1227	1.4	623	1.84	239	8.4	.0	.0	8	62	90	97	100
MAR													
18...	1230	1.8	931	2.02	253	12.5	.0	.0	5	64	92	97	99
APR													
19...	1345	2.0	1,190	2.72	210	11.2	.0	.0	6	46	82	96	99
MAY													
10...	1025	4.0	2,720	3.06	220	17.0	.0	2	26	87	95	98	99
JUN													
02...	1215	1.0	893	1.74	251	23.9	.0	1	10	43	78	93	98
JUL													
12...	1220	1.3	470	1.85	193	25.0	.0	.0	6	57	91	97	99
AUG													
13...	1220	.83	306	1.48	249	24.5	4	10	18	35	63	90	99

08330000 RIO GRANDE AT ALBUQUERQUE, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Bed sedi-ment, dry svd sve dia percent <8 mm (80171)
OCT	
17...	--
NOV	
10...	--
DEC	
05...	100
JAN	
09...	--
FEB	
25...	--
MAR	
18...	100
APR	
19...	100
MAY	
10...	100
JUN	
02...	100
JUL	
12...	100
AUG	
13...	100

08330540 TRAMWAY FLOODWAY CHANNEL AT ALBUQUERQUE, NM

LOCATION.--Lat 35°04'42", long 106°29'49", Bernalillo County, Hydrologic Unit 13020203, on right bank 300 ft downstream from Copper Boulevard Bridge, near corner of Tramway and Copper Boulevards NE in Albuquerque.

DRAINAGE AREA.--1.60 mi^2.

PERIOD OF RECORD.--July 1987 to November 2000 (seasonal record), March 2001 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete-lined channel. Recording rain gage at this site since May 2001. Elevation of gage is 5,740 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for those estimated, which are poor. Prior to water year 1998, some minor streamflow may have existed on days when daily mean discharges have been recorded as zero due to the sensitivity limits of the streamflow-monitoring equipment. Since 1998, all flows above zero are recorded. See tabulation below for monthly precipitation, in inches.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.04	0.01	0.00	0.00	e0.00	0.01	0.01	0.07	0.12	0.72	0.08	0.14
2	0.24	0.01	0.04	0.00	e0.00	0.48	1.5	0.14	0.11	0.63	0.93	0.17
3	0.19	0.01	0.00	0.00	e0.00	0.14	8.2	0.04	0.19	0.73	0.18	0.16
4	0.09	0.02	0.00	0.00	e0.00	4.6	2.8	0.09	0.24	0.76	9.4	0.90
5	0.00	0.02	0.01	0.00	e0.00	0.77	0.08	0.09	0.08	0.67	0.14	0.19
6	0.01	0.00	0.00	0.00	e0.00	0.01	0.02	0.09	0.05	0.70	0.06	0.14
7	4.3	0.01	0.00	0.00	0.00	0.00	0.04	0.02	0.09	0.84	0.06	0.16
8	1.1	0.01	0.04	0.00	0.00	0.01	1.8	0.01	0.09	0.77	0.09	0.14
9	0.03	0.00	0.20	0.00	0.00	0.00	0.56	0.29	0.09	1.1	0.09	0.16
10	1.3	0.01	0.02	0.00	0.00	0.00	1.3	0.16	0.10	0.97	0.24	0.14
11	0.26	0.04	0.04	0.00	e0.00	0.01	0.06	0.03	0.09	1.4	0.29	0.09
12	0.42	2.2	1.2	0.00	0.00	0.02	0.00	0.01	0.11	0.86	0.14	0.15
13	0.09	1.1	0.02	0.00	0.00	0.01	0.01	0.01	0.08	0.13	0.10	0.16
14	0.10	0.01	0.00	0.00	e0.00	0.01	0.00	0.00	0.08	0.97	0.16	0.16
15	0.14	0.01	0.00	0.26	0.00	0.00	0.01	0.01	0.08	0.18	0.14	0.10
16	0.06	0.00	0.00	0.04	0.00	0.03	0.01	0.02	0.07	0.12	0.10	0.16
17	0.09	0.13	0.00	0.00	e0.00	0.05	0.02	0.01	0.11	0.09	0.14	0.09
18	0.15	0.01	0.00	0.00	0.00	0.03	0.00	0.03	0.09	0.14	0.05	0.20
19	0.06	0.01	0.00	0.00	0.00	0.04	0.02	0.04	0.12	0.14	0.32	2.9
20	0.06	0.00	0.00	0.61	0.00	0.09	0.03	0.02	0.15	0.62	0.13	1.3
21	0.26	0.00	0.00	0.00	0.69	0.02	0.12	0.03	0.14	0.15	0.26	0.20
22	0.02	0.00	0.00	e0.00	0.01	0.06	0.16	0.04	0.53	1.0	0.45	0.12
23	0.02	0.00	0.00	0.00	6.0	0.28	0.27	0.17	0.43	2.8	0.14	0.18
24	0.07	0.00	0.00	0.00	1.5	0.12	0.47	0.50	0.48	0.51	0.16	0.10
25	0.01	0.00	0.00	0.39	0.05	0.07	0.65	0.03	0.51	1.3	0.11	0.08
26	0.00	0.00	0.00	e0.00	0.00	0.07	0.89	0.03	1.7	0.09	0.16	0.10
27	0.01	0.00	0.00	e0.00	0.00	0.06	1.2	0.03	0.63	2.5	0.12	0.09
28	0.01	0.00	0.00	e0.00	1.3	0.02	1.4	0.02	4.7	0.17	0.14	0.11
29	0.01	0.00	0.00	0.00	0.00	0.05	0.12	0.02	2.9	0.12	0.22	0.09
30	0.00	0.00	0.00	0.00	---	0.04	0.14	0.87	0.73	0.10	0.16	0.13
31	0.01	---	0.00	0.00	---	0.02	---	0.01	---	0.09	0.17	---
TOTAL	9.15	3.61	1.57	1.30	9.55	7.12	21.89	2.93	14.89	21.37	14.93	8.81
MEAN	0.30	0.12	0.05	0.04	0.33	0.23	0.73	0.09	0.50	0.69	0.48	0.29
MAX	4.3	2.2	1.2	0.61	6.0	4.6	8.2	0.87	4.7	2.8	9.4	2.9
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.09	0.05	0.08
AC-FT	18	7.2	3.1	2.6	19	14	43	5.8	30	42	30	17
(+)	1.39	1.06	0.22	0.32	1.80	0.97	2.84	0.00	1.56	2.03	1.88	0.94

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2004, BY WATER YEAR (WY)

MEAN	0.25	0.09	0.08	0.11	0.25	0.30	0.15	0.12	0.15	0.38	0.49	0.24
MAX	1.03	0.38	0.17	0.29	0.33	1.17	0.73	0.38	0.50	0.95	1.44	0.93
(WY)	(1990)	(2002)	(2002)	(2002)	(2004)	(1990)	(2004)	(1998)	(2004)	(1998)	(2001)	(1991)
MIN	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1991)	(1990)	(1990)	(2003)	(2002)	(1991)	(1991)	(1995)	(1990)	(1994)	(1994)	(1990)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1990 - 2004	
ANNUAL TOTAL	59.69		117.12			
ANNUAL MEAN	0.16		0.32		0.24	
HIGHEST ANNUAL MEAN					0.59	2001
LOWEST ANNUAL MEAN					0.00	1995
HIGHEST DAILY MEAN	4.3	Oct 7	9.4	Aug 4	32	Oct 4, 1989
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 5	0.00	Oct 1, 1989
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Nov 20	0.00	Oct 5, 1989
MAXIMUM PEAK FLOW			233	Aug 4	3,190	Jul 9, 1988
MAXIMUM PEAK STAGE			2.58	Aug 4	8.62	Jul 9, 1988
ANNUAL RUNOFF (AC-FT)	118		232		172	
10 PERCENT EXCEEDS	0.36		0.85		0.49	
50 PERCENT EXCEEDS	0.03		0.06		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

(+) Total precipitation accumulation, in inches.
e Estimated

08330600 TIJERAS ARROYO NEAR ALBUQUERQUE, NM

LOCATION.--Lat 35°00'10", long 106°38'53", in SW ¼ SW ¼ sec.17, T.9 N., R.3 E., Bernalillo County, Hydrologic Unit 13020203, on left bank 800 ft upstream from bridge on Broadway Boulevard SE, 0.2 mi downstream from bridge on Interstate Highway 25, and 3.0 mi south of Albuquerque.

DRAINAGE AREA.--128 mi^2.

PERIOD OF RECORD.--October 1951 to September 1968 (annual maximum only), August 1974 to September 1998 (seasonal records), October 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,999 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Mar. 10, 1988, at site 1,700 ft downstream at different datum.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	5.1	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	88	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	e15	e3.2	0.00	0.00	0.00	58	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e1.3	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	e5.9	0.00	0.00	0.00	0.00	0.00	7.3	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	6.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	2.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.7	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.2
20	0.00	0.00	0.00	0.00	0.00	0.00	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	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	0.00	0.00	0.00	6.9	0.00	0.00
23	0.00	0.00	0.00	0.00	16	0.00	0.00	0.00	0.00	40	0.00	0.00
24	0.00	0.00	0.00	0.00	e16	0.00	0.00	0.00	0.00	1.4	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e3.8	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21	0.03	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e4.1	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	50.00	2.75	0.00	0.00	32.00	15.00	103.60	0.00	25.10	52.13	61.00	1.20
MEAN	1.61	0.09	0.00	0.00	1.10	0.48	3.45	0.00	0.84	1.68	1.97	0.04
MAX	37	2.3	0.00	0.00	16	15	88	0.00	21	40	58	1.2
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	99	5.5	0.00	0.00	63	30	205	0.00	50	103	121	2.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	0.70	0.09	0.00	0.00	0.22	0.29	0.59	0.01	0.30	0.49	1.47	0.08
MAX	2.20	0.21	0.00	0.00	1.10	1.21	3.45	0.03	0.84	1.68	4.35	0.16
(WY)	(2001)	(2003)	(1999)	(1999)	(2004)	(2003)	(2004)	(2001)	(2004)	(2004)	(1999)	(2003)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.28	0.03
(WY)	(2000)	(1999)	(1999)	(1999)	(1999)	(2001)	(2000)	(1999)	(2002)	(2003)	(2003)	(2000)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	125.21		342.78			
ANNUAL MEAN	0.34		0.94		0.36	
HIGHEST ANNUAL MEAN					0.94	2004
LOWEST ANNUAL MEAN					0.06	2000
HIGHEST DAILY MEAN	37	Oct 7	88	Apr 3	88	Apr 3, 2004
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1998
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 12	0.00	Oct 1, 1998
MAXIMUM PEAK FLOW			929	Aug 4	a2,930	Jul 9, 1988
MAXIMUM PEAK STAGE			6.49	Aug 4	b9.60	Jul 9, 1988
ANNUAL RUNOFF (AC-FT)	248		680		257	
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

a From rating curve extended above 10 ft^3/s, on basis of step-backwater analysis, and slope-area measurement.
b From floodmarks.
e Estimated

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 except for those estimated, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.07	0.56	e0.30	0.71	0.04	0.00	0.00	0.00	0.02	0.00	0.00
2	0.00	0.15	0.44	e0.30	0.64	0.00	2.6	0.00	0.00	0.00	0.00	0.00
3	0.00	0.01	0.22	e0.30	0.43	0.48	93	0.00	0.00	0.00	0.00	0.00
4	0.00	0.14	0.32	e0.30	0.47	19	3.4	0.00	0.00	0.00	0.00	0.00
5	0.22	0.26	0.19	e0.30	0.27	2.0	e0.50	0.00	0.00	0.00	0.00	0.00
6	0.44	0.17	0.46	e0.40	0.00	0.42	e0.00	0.00	0.00	0.00	0.00	0.00
7	24	0.00	0.80	e0.40	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
8	10	0.05	0.78	0.52	0.00	0.00	e2.9	0.00	0.00	0.00	0.00	0.00
9	0.95	0.28	0.44	0.40	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00
10	3.4	0.33	0.44	0.26	0.00	0.00	1.1	0.00	0.00	0.00	0.00	0.00
11	3.9	0.27	0.57	0.63	0.00	0.00	1.6	0.00	0.00	0.00	0.79	0.00
12	0.55	0.80	0.76	0.46	0.00	0.00	0.03	0.00	0.00	1.4	0.16	0.00
13	0.42	7.8	0.74	0.30	0.00	0.00	0.00	0.00	0.00	3.0	0.05	0.00
14	0.18	0.80	0.55	0.01	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
15	0.00	0.44	0.50	0.28	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00
16	0.00	0.45	0.38	0.42	0.00	0.00	0.00	0.00	0.00	4.2	0.00	0.00
17	0.00	0.65	0.34	0.27	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00
18	0.00	0.49	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.15	0.51	0.51	0.49	0.00	0.00	0.00	0.00	0.00	0.04	0.00	19
20	0.27	0.36	0.30	0.44	0.00	0.00	0.00	0.00	0.00	0.17	0.00	10
21	0.18	0.06	e0.30	0.77	0.00	0.07	0.00	0.00	0.00	0.18	0.00	0.35
22	0.21	0.00	e0.30	0.53	0.20	0.13	0.00	0.00	0.00	5.5	0.00	0.00
23	0.23	0.37	e0.30	0.46	12	0.00	0.00	0.00	0.00	e230	0.00	0.00
24	0.17	0.62	e0.30	0.51	17	0.49	0.00	0.00	0.00	e70	0.00	0.00
25	0.00	0.56	e0.30	0.73	0.63	0.08	0.00	0.00	0.00	0.00	0.00	0.00
26	0.24	0.42	e0.30	0.69	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.37	0.47	e0.30	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.49	0.60	e0.30	0.47	0.50	0.00	0.00	0.00	0.00	2.1	0.00	0.00
29	0.94	0.71	e0.30	0.33	0.56	0.00	0.00	0.00	14	0.12	0.00	0.00
30	0.29	0.73	0.37	0.38	---	0.00	0.00	0.00	0.59	0.00	0.00	0.00
31	0.01	---	e0.30	0.54	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	47.61	18.57	13.11	13.04	33.49	22.74	105.46	0.00	14.59	319.69	1.00	29.35
MEAN	1.54	0.62	0.42	0.42	1.15	0.73	3.52	0.00	0.49	10.3	0.03	0.98
MAX	24	7.8	0.80	0.77	17	19	93	0.00	14	230	0.79	19
MIN	0.00	0.00	0.19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	94	37	26	26	66	45	209	0.00	29	634	2.0	58

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2004, BY WATER YEAR (WY)

MEAN	0.95	0.73	0.10	0.09	0.22	0.39	0.42	0.21	0.47	1.57	1.29	0.83
MAX	2.88	4.50	0.42	0.42	1.15	1.56	3.52	1.83	3.14	10.3	4.65	2.79
(WY)	(1995)	(1995)	(2004)	(2004)	(2004)	(2003)	(2004)	(1994)	(1996)	(2004)	(1994)	(1997)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.03	0.00
(WY)	(2002)	(1996)	(1994)	(1994)	(1996)	(1996)	(1994)	(1995)	(1995)	(2002)	(2004)	(1998)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1994 - 2004	
ANNUAL TOTAL	158.29		618.65			
ANNUAL MEAN	0.43		1.69		0.61	
HIGHEST ANNUAL MEAN					1.69	2004
LOWEST ANNUAL MEAN					0.15	2002
HIGHEST DAILY MEAN	24	Mar 21	230	Jul 23	230	Jul 23, 2004
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1993
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Feb 6	0.00	Oct 9, 1993
MAXIMUM PEAK FLOW			1,300	Jul 23	a1,960	Jul 14, 1990
MAXIMUM PEAK STAGE			6.70	Jul 23	6.70	Jul 23, 2004
ANNUAL RUNOFF (AC-FT)	314		1,230		441	
10 PERCENT EXCEEDS	0.61		0.73		0.33	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

a From rating curve extended above 30 ft^3/s, on basis of step-backwater analysis.
e Estimated

08330875 RIO GRANDE AT ISLETA LAKES NEAR ISLETA, NM

LOCATION.--Lat 34°56'49", long 106°40'45", Bernalillo County, Hydrologic Unit 13020203, in Isleta Pueblo Grant, on left bank 0.2 mi downstream from Interstate Highway 25 Bridge, and 2.7 mi north of Isleta.

DRAINAGE AREA.--18,000 mi^2, approximately, including 2,940 mi^2 in closed basin in San Luis Valley, Colorado.

PERIOD OF RECORD.--October 2000 to September 2002 (stage only), October 2002 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,870 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for those estimated, which are poor. Flow regulated since Nov. 1973 by Cochiti Dam (station 08317300), 54 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 of which are downstream from station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	e184	e463	e375	463	537	1,590	992	884	e525	139	121
2	129	e200	e470	e420	462	496	1,480	1,030	878	340	248	109
3	117	e200	e502	e480	468	521	2,560	1,010	795	305	257	110
4	121	e208	e538	e520	478	769	2,280	1,320	665	272	230	108
5	139	e240	e571	e510	486	850	1,990	1,860	521	297	268	112
6	125	e280	e527	e480	496	582	1,690	2,050	525	324	154	173
7	157	e325	e507	469	507	549	2,010	2,230	567	340	e111	126
8	848	e322	e508	402	512	e541	2,120	2,670	656	302	e106	118
9	538	e320	e513	396	514	e528	1,990	2,860	870	327	e84	156
10	248	e322	e580	434	508	507	1,980	2,820	885	347	95	147
11	276	e332	e605	464	496	522	2,240	2,730	754	e372	156	111
12	456	e354	e500	476	481	e505	2,030	2,740	597	e387	176	116
13	201	e500	e460	477	425	e525	1,670	2,900	552	669	190	115
14	140	e410	e440	475	442	e547	1,640	2,960	491	380	227	121
15	e108	e390	e418	475	434	e545	1,610	2,910	477	341	393	121
16	e100	e385	e480	482	430	e726	1,410	2,920	470	454	340	125
17	e96	e380	e510	512	412	e950	1,190	2,690	441	317	199	125
18	e96	e385	e520	548	412	1,140	1,120	2,350	408	310	172	115
19	e102	e400	e500	557	410	1,270	1,100	2,230	425	348	151	212
20	e98	e420	e480	570	412	1,220	1,340	2,030	485	475	136	276
21	e95	e420	e490	589	415	1,130	1,510	2,020	489	448	139	175
22	e95	e418	e500	602	429	1,100	1,490	2,190	490	450	194	150
23	e93	e418	e600	611	434	1,050	1,270	2,230	467	820	191	139
24	e90	e420	e640	596	1,110	1,040	1,060	2,090	458	970	178	111
25	e90	e480	e620	541	641	1,140	951	1,840	436	809	183	106
26	e104	e525	e620	550	622	1,360	909	1,600	400	534	174	98
27	e120	528	e615	553	610	1,520	885	1,390	e450	223	e160	102
28	e140	530	e630	579	523	1,640	832	1,280	e334	335	e199	98
29	e138	532	e580	514	605	1,620	805	1,150	e475	197	e222	95
30	e120	454	e420	458	---	1,580	852	1,130	e508	151	e197	125
31	e128	---	e380	462	---	1,570	---	1,000	---	142	147	---
TOTAL	5,435	11,282	16,187	15,577	14,637	28,580	45,604	63,222	16,853	12,511	5,816	3,916
MEAN	175	376	522	502	505	922	1,520	2,039	562	404	188	131
MAX	848	532	640	611	1,110	1,640	2,560	2,960	885	970	393	276
MIN	90	184	380	375	410	496	805	992	334	142	84	95
AC-FT	10,780	22,380	32,110	30,900	29,030	56,690	90,460	125,400	33,430	24,820	11,540	7,770

CAL YR	2003	TOTAL	147,421	MEAN	404	MAX	1,430	MIN	90	AC-FT 292,400
WTR YR	2004	TOTAL	239,620	MEAN	655	MAX	2,960	MIN	84	AC-FT 475,300

e Estimated

08331000 RIO GRANDE AT ISLETA, NM—Continued

WATER-QUALITY RECORDS

LOCATION.--Lat 34°55'14", long 106°40'44", in NE ¼ SE ¼ SW ¼ 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, Colorado.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	Turbidity, NTU (00076)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
OCT													
28...	1230	132	--	53	636	9.2	118	7.7	526	19.5	18.5	--	--
NOV													
21...	1345	387	--	130	634	10.0	107	7.3	482	15.0	10.0	--	--
DEC													
02...	1045	424	--	150	641	10.2	96	8.0	499	16.0	5.4	150	48.2
11...	1200	424	--	170	635	10.8	103	7.6	454	6.0	5.5	--	--
JAN													
23...	1230	586	--	79	643	11.5	111	7.8	466	6.7	6.5	--	--
FEB													
26...	1020	586	--	7.0	643	9.9	96	7.8	633	4.5	6.5	--	--
MAR													
22...	1120	1,100	--	370	644	8.9	100	7.8	394	25.3	13.0	--	--
APR													
14...	1330	1,610	--	560	639	8.2	95	8.1	374	20.0	14.0	110	36.2
21...	1030	1,450	--	300	635	8.3	93	7.8	361	17.5	12.2	--	--
MAY													
11...	1035	2,720	--	140	635	7.4	92	7.5	320	25.3	17.0	--	--
JUN													
14...	1605	505	35	--	638	6.6	102	8.0	366	36.6	28.0	--	--
JUL													
09...	0940	282	82	--	641	6.3	80	8.0	447	23.1	18.0	--	--
13...	1140	940	980	--	655	4.6	67	8.0	363	31.0	26.5	100	32.6
AUG													
11...	1030	124	350	--	638	7.0	93	7.7	518	24.8	20.0	--	--
18...	1145	144	--	--	640	6.2	85	8.1	458	32.0	22.0	140	44.6
SEP													
08...	1050	100	400	--	636	7.8	99	8.0	526	20.4	17.9	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)
OCT													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
02...	7.73	5.47	1	40.6	122	148	25.8	.6	25.0	74.0	303	.30	.80
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
14...	5.05	3.84	1	30.5	95	115	18.5	.4	21.1	50.9		.20	1.4
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	4.97	4.77	1	26.2	100	120	14.8	.4	20.1	49.2		.20	3.6
AUG													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	6.15	6.16	1	37.7	130	157	26.8	.5	25.7	62.3		.22	1.7
SEP													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--

08331000 RIO GRANDE AT ISLETA, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, fltrd, mg/L (00666)	Phos-phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli-form, M-FC 0.7u MF col/ 100 mL (31625)	Alum-inum, water, fltrd, ug/L (01106)	Anti-mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)
OCT													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
02...	.05	.09	.40	<.010	.22	.22	.45	E280	1,200	2	E.20	5	90
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
14...	<.01	.04	.23	<.010	.06	.06	.58	E270	E600	2	E.16	4	65
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	<.01	.04	.34	<.010	.12	.11	1.40	E18,000	E2,000	3	.22	3	62
AUG													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	<.04	E.085	.84	.009	.37	.39	.78	E53	1,600	3	.21	6	95
SEP													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Beryll-ium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chrom-ium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan-ese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recover-able, ug/L (71900)	Molyb-denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen-ium, water, fltrd, ug/L (01145)
OCT													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
02...	<.06	101	E.04	<.8	.374	1.6	10	E.05	19.3	<.02	6.4	2.00	<3
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
14...	<.06	81	E.02	<.8	.238	1.1	E6	E.04	3.5	.02	4.1	1.36	<3
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	<.06	58	E.02	<.8	.349	1.1	E6	<.08	.4	.04	4.8	1.32	<3
AUG													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	<.06	104	.04	<.8	.679	1.2	6	E.06	11.9	.03	6.3	1.37	<3
SEP													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--

08331000 RIO GRANDE AT ISLETA, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Selenium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
OCT						
28...	--	--	--	--	--	90
NOV						
21...	--	--	--	--	--	281
DEC						
02...	<3	<.2	3.2	2.95	79	285
11...	--	--	--	--	--	648
JAN						
23...	--	--	--	--	--	347
FEB						
26...	--	--	--	--	--	698
MAR						
22...	--	--	--	--	--	828
APR						
14...	<3	<.2	1.5	2.28	65	1,410
21...	--	--	--	--	--	743
MAY						
11...	--	--	--	--	--	885
JUN						
14...	--	--	--	--	--	78
JUL						
09...	--	--	--	--	--	161
13...	<3	<.2	1.5	1.58	97	2,390
AUG						
11...	--	--	--	--	--	538
18...	<3	<.2	3.7	2.04	100	1,100
SEP						
08...	--	--	--	--	--	516

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	Atrazine, water, fltrd, ug/L (39632)	Azinphosmethyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Butylate, water, fltrd, ug/L (04028)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbofuran, water, fltrd 0.7u GF ug/L (82674)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)
APR													
14...	1330	<.006	<.006	<.006	<.005	<.005	<.007	<.050	<.010	<.004	<.041	<.020	<.006
AUG													
18...	1145	<.006	<.006	<.006	<.005	<.005	<.007	<.050	<.010	<.004	<.041	<.020	<.006

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Cyanazine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon, water, fltrd, ug/L (39572)	Dieldrin, water, fltrd, ug/L (39381)	Disulfoton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethalfluralin, water, fltrd 0.7u GF ug/L (82663)	Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Desulfinyl-fipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)
APR													
14...	<.018	<.003	<.012	E.005	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016
AUG													
18...	<.018	<.003	<.012	<.005	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Fonofos water, fltrd, ug/L (04095)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Napropamide, water, fltrd 0.7u GF ug/L (82684)	p,p'-DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)	Pebulate, water, fltrd 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)
APR													
14...	<.003	<.004	<.035	<.027	<.015	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022
AUG													
18...	<.003	<.004	<.035	<.027	<.015	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022

08331000 RIO GRANDE AT ISLETA, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Phorate water fltrd 0.7u GF ug/L (82664)	Prome-ton, water, fltrd, ug/L (04037)	Propy-zamide, water, fltrd 0.7u GF ug/L (82676)	Propa-chlor, water, fltrd, ug/L (04024)	Pro-panil, water, fltrd 0.7u GF ug/L (82679)	Propar-gite, water, fltrd 0.7u GF ug/L (82685)	Sima-zine, water, fltrd, ug/L (04035)	Tebu-thiuron water fltrd 0.7u GF ug/L (82670)	Terba-cil, water, fltrd 0.7u GF ug/L (82665)	Terbu-fos, water, fltrd 0.7u GF ug/L (82675)	Thio-bencarb water fltrd 0.7u GF ug/L (82681)	Tri-allate, water, fltrd 0.7u GF ug/L (82678)	Tri-flur-alin, water, fltrd 0.7u GF ug/L (82661)
APR													
14...	<.011	.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	<.009
AUG													
18...	<.011	.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	<.009

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

08331118 AMOLE DEL NORTE CHANNEL AT ALBUQUERQUE, NM

LOCATION.--Lat 35°02'14", long 106°43'15", Bernalillo County, Hydrologic Unit 13020203, in Atrisco Grant, on right bank of concrete-lined channel 100 ft south of Blake Road and 2,500 ft west of intersection of Blake Road and Coors Blvd. in southwest Albuquerque.

DRAINAGE AREA.--6.302 mi^2.

PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 4,997 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.01	3.6	0.00	0.00	0.00	0.28	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	27	0.00	0.08	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	5.2	2.1	0.00	0.00	0.00	0.00	0.22
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	3.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	1.2	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	2.6	0.00	0.00	0.00	0.00	0.00	1.3	0.00	0.00	0.00	1.1	0.00
11	3.2	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
12	0.61	1.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.00	0.00
13	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.2	0.14	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.17
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	2.5
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.02	0.23
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.5	0.00	0.00
23	0.00	0.00	0.00	0.00	2.7	0.00	0.00	0.00	0.00	1.6	0.00	0.00
24	0.00	0.00	0.00	0.00	1.3	0.00	0.00	0.00	0.00	2.5	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.0	0.00	0.09	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.01	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	11.01	2.54	0.00	0.00	4.00	5.21	35.13	0.00	2.14	33.16	1.66	3.12
MEAN	0.36	0.08	0.00	0.00	0.14	0.17	1.17	0.00	0.07	1.07	0.05	0.10
MAX	3.4	1.7	0.00	0.00	2.7	5.2	27	0.00	2.0	16	1.1	2.5
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	22	5.0	0.00	0.00	7.9	10	70	0.00	4.2	66	3.3	6.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	0.31	0.19	0.02	0.06	0.05	0.13	0.32	0.11	0.09	0.57	0.24	0.15
MAX	0.76	0.50	0.03	0.23	0.14	0.23	1.17	0.38	0.35	1.07	0.75	0.53
(WY)	(2001)	(2001)	(2001)	(2001)	(2004)	(2003)	(2004)	(2000)	(2000)	(2004)	(2002)	(2002)
MIN	0.01	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.05	0.00
(WY)	(2002)	(2004)	(2004)	(2003)	(2001)	(2002)	(2003)	(2003)	(2003)	(2002)	(2004)	(2000)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL TOTAL	46.79		97.97			
ANNUAL MEAN	0.13		0.27		0.18	
HIGHEST ANNUAL MEAN					0.27	2004
LOWEST ANNUAL MEAN					0.11	2003
HIGHEST DAILY MEAN	18	Jul 20	27	Apr 3	27	Apr 3, 2004
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Apr 20, 2000
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 13	0.00	Apr 20, 2000
MAXIMUM PEAK FLOW			259	Jul 22	366	Jul 20, 2003
MAXIMUM PEAK STAGE			4.29	Jul 22	4.81	Jul 20, 2003
ANNUAL RUNOFF (AC-FT)	93		194		127	
10 PERCENT EXCEEDS	0.00		0.05		0.01	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

08331990 RIO GRANDE CONVEYANCE CHANNEL NEAR BERNARDO, NM

LOCATION.--Lat 34°24'52", long 106°48'11", Socorro County, Hydrologic Unit 13020203, in Sevilleta or Belen Grant, 0.2 mi south of U.S. Highway 60, 1.8 mi east of Bernardo, about 3 mi upstream from floodway, and 4 mi upstream from Rio Puerco.

PERIOD OF RECORD.--June 1936 to September 1937, October 1964 to current year. July 1943 to September 1964, included in composite flow of "Rio Grande near Bernardo." October 1960 to September 1964, monthly acre-feet published in WSP 1923 (daily records available in District files). Beginning October 1952, flow in conveyance channel represents controlled diversion from Rio Grande. Prior to October 1952, records called "San Francisco Riverside drain near Bernardo" are not equivalent.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 4,720.00 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1964, 0.2 mi upstream at various datums.

REMARKS.--Records fair except for those estimated, which are poor. Conveyance channel is 1 of 4 channels (stations 08332010, 08332030, and 08332050) carrying flow in valley cross section. Original design and plan were for conveyance channel to carry flows up to about 2,000 ft^3/s. For combined monthly flow, in acre-feet, 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e8.5	e8.1	8.0	7.5	7.8	8.1	88	101	107	92	102	47
2	e9.9	e7.5	7.5	7.5	7.5	8.2	83	113	105	104	105	51
3	e14	e7.2	7.4	7.5	7.5	8.1	93	118	72	106	116	35
4	18	e7.5	7.5	7.3	7.6	8.6	99	112	75	119	103	34
5	25	8.7	7.4	7.0	7.6	8.3	85	96	75	94	142	39
6	32	9.0	7.5	7.3	7.6	8.3	76	82	74	89	141	40
7	31	9.1	7.5	7.4	7.7	8.2	67	76	67	89	113	45
8	57	8.6	7.5	7.5	8.1	8.1	71	76	59	80	79	42
9	66	8.6	7.5	7.5	8.0	8.1	72	74	58	66	69	29
10	38	8.7	7.5	7.5	8.1	9.5	69	74	57	e64	58	29
11	36	8.8	7.5	7.5	8.1	12	69	76	61	e58	65	36
12	36	8.9	7.5	7.5	8.1	8.1	70	78	65	e57	66	29
13	39	9.5	7.5	7.3	8.0	8.1	68	73	61	e52	62	25
14	45	8.7	7.5	7.5	8.1	8.1	67	82	74	e48	57	35
15	63	8.7	7.5	7.5	8.1	34	73	121	63	e47	54	31
16	61	8.7	7.4	7.5	8.1	60	87	136	69	e50	70	27
17	69	8.7	7.1	7.5	8.1	64	95	147	54	e48	66	23
18	63	8.7	7.3	7.5	8.1	63	97	143	59	e47	72	24
19	59	8.7	7.5	7.5	8.1	72	95	121	67	e46	62	31
20	44	8.4	7.5	7.7	8.1	74	80	117	65	e46	60	38
21	35	8.5	7.5	7.5	8.1	69	81	124	91	55	68	61
22	25	8.2	7.5	7.5	8.1	79	76	130	77	62	81	70
23	18	7.9	7.5	7.5	8.1	74	79	108	77	61	70	74
24	24	8.1	7.5	7.6	8.1	71	95	108	82	113	66	87
25	17	8.1	7.5	7.9	8.1	78	92	115	69	65	59	98
26	21	7.8	7.6	7.5	8.5	71	88	112	75	59	59	106
27	36	7.6	7.6	7.5	8.6	75	81	121	54	70	61	113
28	38	7.7	7.5	7.5	8.6	76	94	124	86	117	50	111
29	33	7.8	7.4	7.5	8.2	83	88	114	114	115	48	98
30	38	7.9	7.3	7.6	---	83	98	99	114	100	50	103
31	26	---	7.5	7.8	---	82	---	102	---	118	50	---
TOTAL	1,125.4	250.4	232.0	232.4	232.8	1,327.8	2,476	3,273	2,226	2,337	2,324	1,611
MEAN	36.3	8.35	7.48	7.50	8.03	42.8	82.5	106	74.2	75.4	75.0	53.7
MAX	69	9.5	8.0	7.9	8.6	83	99	147	114	119	142	113
MIN	8.5	7.2	7.1	7.0	7.5	8.1	67	73	54	46	48	23
AC-FT	2,230	497	460	461	462	2,630	4,910	6,490	4,420	4,640	4,610	3,200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	78.0	257	230	211	210	179	187	189	162	90.1	80.8	63.7
MAX	682	1,395	1,579	1,417	1,006	1,028	1,354	1,259	1,664	1,690	890	570
(WY)	(1970)	(1971)	(1974)	(1974)	(1970)	(1966)	(1966)	(1973)	(1973)	(1973)	(1973)	(1973)
MIN	0.00	1.54	2.62	2.42	2.55	3.93	2.92	0.64	0.00	0.00	0.01	0.00
(WY)	(1964)	(1978)	(1995)	(1995)	(1995)	(1977)	(1977)	(1977)	(1972)	(1964)	(1977)	(1964)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	13,016.6		17,647.8			
ANNUAL MEAN	35.7		48.2		161	
HIGHEST ANNUAL MEAN					1,017	1973
LOWEST ANNUAL MEAN					2.25	1977
HIGHEST DAILY MEAN	88	Apr 28	147	May 17	2,050	Aug 2, 1973
LOWEST DAILY MEAN	7.1	Dec 17	7.0	Jan 5	0.00	Oct 1, 1963
ANNUAL SEVEN-DAY MINIMUM	7.4	Dec 12	7.4	Jan 1	0.00	Oct 1, 1963
MAXIMUM PEAK FLOW			167	May 18	2,220	Aug 22, 1958
MAXIMUM PEAK STAGE			4.25	May 18	4.25	May 18, 2004
INSTANTANEOUS LOW FLOW					0.00	Oct 1, 1963
ANNUAL RUNOFF (AC-FT)	25,820		35,000		116,600	
10 PERCENT EXCEEDS	69		104		728	
50 PERCENT EXCEEDS	35		48		9.1	
90 PERCENT EXCEEDS	7.7		7.5		0.97	

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, 5.0 mi downstream from heading of conveyance channel, and at mile 1,487.2.

DRAINAGE AREA.--19,230 mi^2, approximately, including 2,940 mi^2 in closed basin in San Luis Valley, Colorado.

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 datum 3.00 ft higher.

REMARKS.--Water-discharge records fair except for those estimated, which are poor. Since Nov. 1973, flow regulated by Cochiti Dam (station 08317300) 100 mi upstream. Floodway is 1 of 3 channels (stations 08331990, 08332030) carrying flow in valley cross section. 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. 30 years (water years 1974-2003,) 1,360 ft^3/s, 985,320 acre-ft/yr, includes flow of floodway, conveyance channel, and Lower San Juan Riverside drain, since closure of Cochiti Dam.

EXTREMES FOR PERIOD OF RECORD (1936-39 AND SINCE 1941).--Maximum discharge, 21,000 ft^3/s, Apr. 25, 1942, gage height, 6.90 ft; no flow some years.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.65	e201	583	484	473	573	955	319	564	357	95	e1.7
2	0.63	e206	528	412	462	575	932	425	506	326	63	e0.43
3	0.88	e235	529	420	451	558	1,160	534	418	244	215	0.40
4	1.6	e253	539	451	455	564	2,570	528	305	190	110	0.46
5	10	262	570	508	458	602	2,340	580	214	179	120	0.43
6	23	282	609	542	473	881	1,980	1,020	127	149	123	0.36
7	11	325	632	536	489	726	1,710	1,330	111	78	88	0.31
8	50	361	605	541	515	625	1,960	1,440	92	65	58	0.31
9	97	379	587	488	528	569	2,020	1,920	78	52	27	0.28
10	134	395	581	438	539	533	1,950	2,200	134	44	16	0.25
11	218	406	598	470	544	472	2,020	2,180	171	32	9.4	0.24
12	196	417	669	499	548	436	2,160	2,010	127	53	6.0	0.21
13	296	436	695	524	545	466	2,020	1,940	92	28	3.4	0.19
14	129	545	641	525	495	469	1,810	2,140	159	20	3.1	0.17
15	67	747	574	524	479	497	1,690	2,230	87	11	e1.8	0.16
16	17	612	510	514	482	495	1,610	2,280	60	e8.7	e2.1	0.16
17	9.2	567	495	515	475	482	1,460	2,330	e56	e8.5	69	0.14
18	10	543	545	530	475	740	1,230	2,140	e51	e7.1	17	0.14
19	8.5	532	585	560	474	903	1,130	1,800	e41	e6.0	12	0.21
20	7.8	573	579	584	466	890	935	1,670	e34	e6.0	31	0.22
21	16	566	543	605	473	896	899	1,560	e26	e7.9	29	0.18
22	28	568	533	606	485	816	1,070	1,450	e20	e8.7	23	0.23
23	23	516	546	611	485	730	1,000	1,590	14	e12	24	0.33
24	24	502	557	630	494	555	817	1,660	16	86	22	0.44
25	23	493	642	633	797	491	587	1,580	17	416	13	0.49
26	18	509	806	596	855	549	467	1,420	16	e731	11	0.58
27	27	563	805	541	675	525	410	1,270	16	e808	e1.9	2.8
28	66	647	e741	537	637	693	359	1,040	19	e385	e1.1	3.2
29	e89	646	e708	576	616	899	304	923	119	316	e1.5	7.5
30	e97	645	e724	562	---	1,020	272	725	231	230	e1.7	4.7
31	e84	---	669	515	---	973	---	686	---	145	e1.1	---
TOTAL	1,782.26	13,932	18,928	16,477	15,343	20,203	39,827	44,920	3,921	5,009.9	1,199.1	27.22
MEAN	57.5	464	611	532	529	652	1,328	1,449	131	162	38.7	0.91
MAX	296	747	806	633	855	1,020	2,570	2,330	564	808	215	7.5
MIN	0.63	201	495	412	451	436	272	319	14	6.0	1.1	0.14
AC-FT	3,540	27,630	37,540	32,680	30,430	40,070	79,000	89,100	7,780	9,940	2,380	54

CAL YR	2003	TOTAL	76,813.19	MEAN	210	MAX	806	MIN	0.00	AC-FT	152,400
WTR YR	2004	TOTAL	181,569.48	MEAN	496	MAX	2,570	MIN	0.14	AC-FT	360,100

e Estimated

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, NM—Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	Turbidity, NTU (00076)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Suspended sediment concentration mg/L (80154)
OCT												
28...	1000	62	--	1,100	642	10.3	106	7.6	585	18.0	9.0	659
NOV												
19...	1230	543	--	320	648	10.5	107	7.6	586	11.3	9.0	337
DEC												
11...	0945	578	--	100	639	11.6	98	8.0	529	-1.5	1.0	233
JAN												
23...	1015	616	--	82	648	11.6	103	8.4	534	3.5	3.5	355
FEB												
17...	1045	502	--	4.9	654	10.6	99	8.0	553	12.5	5.8	404
APR												
14...	1215	1,820	--	--	--	--	--	--	--	--	--	1,480
14...	1220	1,820	--	1,800	645	8.0	97	7.7	498	21.5	16.5	--
MAY												
19...	1410	1,740	--	--	--	--	--	--	--	--	--	282
19...	1425	1,740	--	94	642	6.2	88	7.7	350	31.0	24.0	--
JUN												
09...	1105	80	50	--	642	8.0	116	8.4	428	29.8	25.0	76
JUL												
30...	1450	218	1,200	--	644	6.3	103	8.2	484	35.0	32.0	1,420
AUG												
18...	1140	18	--	--	--	--	--	--	--	--	--	609
18...	1150	18	560	--	640	7.2	98	8.2	572	24.6	21.5	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Mean stream depth, feet (00064)	Instantaneous discharge, cfs (00061)	Stream velocity, ft/s (00055)	Stream width, feet (00004)	Temperature, water, deg C (00010)	Suspnd. sediment, falldia dst wat percent <.002mm (70337)	Suspnd. sediment, falldia dst wat percent <.004mm (70338)	Suspnd. sediment, falldia dst wat percent <.008mm (70339)	Suspnd. sediment, falldia dst wat percent <.016mm (70340)	Suspnd. sediment, falldia dst wat percent <.063mm (70342)	Suspnd. sediment, falldia dst wat percent <.125mm (70343)	Suspnd. sediment, falldia dst wat percent <.25mm (70344)
OCT													
21...	1430	.49	18	1.51	25.3	21.0	73	90	94	97	92	98	100
DEC													
04...	1250	1.3	546	1.83	235	5.0	--	--	--	--	56	62	81
18...	1045	1.5	548	1.96	181	2.0	--	--	--	--	61	62	85
JAN													
16...	1310	1.5	527	1.98	181	9.5	--	--	--	--	71	71	89
FEB													
03...	1215	1.6	451	1.78	160	4.0	--	--	--	--	77	77	91
MAR													
15...	1535	1.7	494	1.77	160	18.0	--	--	--	--	84	85	93
APR													
14...	1245	2.4	1,790	2.10	360	16.5	65	79	81	88	90	91	95
MAY													
19...	1430	2.1	1,820	2.42	358	24.0	--	--	--	--	64	66	89
JUN													
10...	1225	1.1	163	1.58	94.0	25.5	--	--	--	--	--	--	--
JUL													
09...	1400	.56	53	1.26	74.0	29.5	--	--	--	--	--	--	--

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Suspnd. sedi-ment, falldia dst wat percent <.5 mm (70345)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Suspnd. sedi-ment, sieve diametr percent <1 mm (70335)	Sus-pended sedi-ment concen-tration mg/L (80154)
OCT				
21...	--	--	--	536
DEC				
04...	100	--	--	265
18...	100	--	--	240
JAN				
16...	100	--	--	181
FEB				
03...	100	--	--	313
MAR				
15...	100	--	--	279
APR				
14...	100	--	--	1,250
MAY				
19...	100	--	--	311
JUN				
10...	--	92	100	135
JUL				
09...	--	99	100	143

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Mean stream depth, feet (00064)	Instan-taneous dis-charge, cfs (00061)	Stream veloc-ity, ft/s (00055)	Stream width, feet (00004)	Temper-ature, water, deg C (00010)	Bed sedi-ment, dry svd sve dia percent <.063mm (80164)	Bed sedi-ment, dry svd sve dia percent <.125mm (80165)	Bed sedi-ment, dry svd sve dia percent <.25mm (80166)	Bed sedi-ment, dry svd sve dia percent <.5 mm (80167)	Bed sedi-ment, dry svd sve dia percent <1 mm (80168)	Bed sedi-ment, dry svd sve dia percent <2 mm (80169)	Bed sedi-ment, dry svd sve dia percent <4 mm (80170)
OCT													
21...	1435	.49	18	1.51	25.3	21.0	.0	.0	17	77	96	100	--
DEC													
04...	1255	1.3	546	1.83	235	5.0	2	3	17	64	93	98	100
18...	1105	1.5	548	1.96	181	2.0	.0	.0	13	76	97	99	100
JAN													
16...	1258	1.5	527	1.98	181	9.5	.0	.0	11	68	92	96	98
FEB													
03...	1230	1.6	451	1.78	160	4.0	.0	.0	18	75	95	99	100
MAR													
15...	1630	1.7	494	1.77	160	18.0	.0	1	20	81	96	98	99
MAY													
19...	1300	2.1	1,820	2.42	358	24.0	.0	2	46	88	99	100	--
JUN													
10...	1230	1.1	163	1.58	94.0	25.5	.0	.0	14	80	97	100	--
JUL													
09...	1405	.56	53	1.26	74.0	29.5	.0	.0	2	52	99	100	98
AUG													
03...	1315	1.2	259	1.73	120	25.0	.0	.0	17	71	94	97	98

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Bed sedi-ment, dry svd sve dia percent <8 mm (80171)	Bed sedi-ment, dry svd sve dia percent <16 mm (80172)
OCT		
21...	--	--
DEC		
04...	--	--
18...	--	--
JAN		
16...	99	100
FEB		
03...	--	--
MAR		
15...	100	--
MAY		
19...	--	--
JUN		
10...	--	--
JUL		
09...	100	--
AUG		
03...	100	--

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-feet published in WSP 1923. Daily records available in District files beginning October 1943.

GAGE.--Water-stage recorder. Elevation of gage is 4,710 ft above National Geodetic Vertical Datum of 1929, from topographic map. June 4, 1936, to May 17, 1937, nonrecording gage 300 ft downstream, and Oct. 1, 1943, to Jan. 12, 1978, water-stage recorder at site 150 ft downstream at different datum.

REMARKS.--Records poor. This drain is 1 of 4 channels (stations 08331990, 08332010, and 08332030) carrying flow in valley cross section. For combined monthly flow, in acre-feet, 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	25	30	26	20	50	78	86	66	42	55	27
2	23	27	29	25	20	51	75	94	65	46	60	27
3	23	23	22	25	20	53	89	103	52	46	53	24
4	23	19	12	25	15	55	88	106	50	52	49	24
5	23	12	19	24	20	58	74	101	53	40	63	24
6	26	12	35	24	21	58	62	120	49	39	59	25
7	24	20	36	14	21	59	52	122	46	38	52	26
8	42	32	29	10	22	59	54	129	42	35	52	26
9	45	27	19	13	23	59	55	122	45	30	45	22
10	27	28	19	14	16	68	53	125	43	32	33	24
11	27	33	22	15	15	80	52	118	43	29	36	25
12	26	28	21	11	23	107	52	130	48	28	35	23
13	28	34	18	11	24	113	50	120	43	26	32	22
14	29	34	17	11	24	115	48	108	55	26	30	23
15	34	35	18	16	24	98	57	97	45	25	30	22
16	31	32	17	17	25	58	82	106	46	25	38	21
17	39	29	15	12	25	60	87	109	36	24	34	21
18	39	30	14	13	25	57	90	95	36	23	35	22
19	36	30	18	17	25	68	95	82	38	23	36	25
20	28	30	22	17	25	72	79	81	36	22	34	23
21	24	25	22	18	26	52	76	94	49	22	35	32
22	22	34	17	18	26	59	75	91	39	25	54	37
23	23	34	8.0	18	23	51	78	86	40	26	44	39
24	32	22	17	14	26	59	83	78	40	51	37	40
25	33	19	27	18	27	64	85	74	35	32	35	43
26	34	31	28	19	40	53	79	78	38	27	39	48
27	38	35	27	19	44	56	73	90	32	33	33	54
28	38	35	26	14	48	61	75	91	37	56	31	55
29	31	35	27	19	49	76	72	80	62	58	30	46
30	31	35	27	20	---	78	84	66	56	49	29	54
31	31	---	26	20	---	89	---	65	---	59	28	---
TOTAL	934	845	684.0	537	742	2,096	2,152	3,047	1,365	1,089	1,256	924
MEAN	30.1	28.2	22.1	17.3	25.6	67.6	71.7	98.3	45.5	35.1	40.5	30.8
MAX	45	35	36	26	49	115	95	130	66	59	63	55
MIN	22	12	8.0	10	15	50	48	65	32	22	28	21
AC-FT	1,850	1,680	1,360	1,070	1,470	4,160	4,270	6,040	2,710	2,160	2,490	1,830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2004, BY WATER YEAR (WY)

MEAN	76.8	31.7	28.8	27.9	28.0	51.7	63.8	69.3	62.8	64.6	72.9	76.1
MAX	168	87.9	79.5	87.7	78.9	97.7	138	141	134	146	146	164
(WY)	(1996)	(1987)	(2001)	(1990)	(2002)	(2003)	(2001)	(2001)	(1992)	(1992)	(1992)	(1995)
MIN	0.11	1.37	3.50	3.30	3.90	5.61	4.81	4.84	1.64	0.18	0.01	0.01
(WY)	(1957)	(1957)	(1955)	(1957)	(1957)	(1954)	(1955)	(1954)	(1954)	(1956)	(1954)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1954 - 2004	
ANNUAL TOTAL	22,514.0		15,671.0			
ANNUAL MEAN	61.7		42.8		55.5	
HIGHEST ANNUAL MEAN					107	2001
LOWEST ANNUAL MEAN					4.29	1955
HIGHEST DAILY MEAN	143	Apr 22	130	May 12	208	May 5, 1983
LOWEST DAILY MEAN	8.0	Dec 23	8.0	Dec 23	0.00	Jul 31, 1954
ANNUAL SEVEN-DAY MINIMUM	17	Dec 17	12	Jan 8	0.00	Jul 31, 1954
MAXIMUM PEAK FLOW			142	May 10	208	May 5, 1983
MAXIMUM PEAK STAGE			6.33	Mar 15	6.61	Apr 22, 2003
INSTANTANEOUS LOW FLOW					0.00	Jul 31, 1954
ANNUAL RUNOFF (AC-FT)	44,660		31,080		40,200	
10 PERCENT EXCEEDS	111		82		120	
50 PERCENT EXCEEDS	48		34		45	
90 PERCENT EXCEEDS	25		19		7.0	

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 fair except for those estimated, which are poor. Diversions for irrigation of about 3,700 acres upstream from station in past years, but present diversion negligible. Several observations of water temperature were made during the year. No flow 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	3.6	1.8	9.2	e0.08	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	1.9	1.8	8.1	e0.00	0.00	0.00	0.00
3	10	0.00	0.00	0.00	0.00	3.1	204	6.2	e0.00	0.00	0.00	1.9
4	45	0.00	0.00	0.00	0.00	2.6	610	13	0.00	0.00	0.00	108
5	53	0.00	0.00	0.00	0.00	8.4	449	30	0.00	0.00	1.0	e27
6	6.0	0.00	0.00	0.00	0.00	9.3	47	36	0.00	0.00	0.29	e0.66
7	1.7	0.00	0.00	0.00	0.00	4.6	20	44	0.00	0.00	0.00	e0.00
8	0.74	0.00	0.00	0.00	0.00	8.1	25	57	0.00	0.00	0.00	e0.00
9	0.34	0.00	0.00	0.00	0.00	9.2	48	58	0.00	0.00	0.00	0.00
10	2.6	0.00	0.00	0.00	0.00	6.4	62	47	0.00	0.00	0.00	0.00
11	3.1	0.00	0.00	0.00	0.00	3.9	158	41	0.00	0.00	0.00	0.00
12	0.23	0.12	0.00	0.00	0.00	3.0	150	34	0.00	0.00	0.00	0.00
13	0.13	0.58	0.00	0.00	0.00	3.1	51	34	0.00	0.00	0.00	0.00
14	0.00	0.05	0.00	0.00	0.00	2.4	41	29	0.00	0.00	29	0.00
15	0.02	0.00	0.00	0.00	0.00	2.2	46	22	0.00	0.00	2.6	0.00
16	0.00	0.00	0.00	0.00	0.00	2.3	42	18	0.00	0.00	25	0.00
17	0.00	0.00	0.00	0.00	0.00	2.3	41	15	0.00	0.00	e0.20	0.00
18	0.00	0.00	0.00	0.00	0.00	2.2	43	13	0.00	0.00	e0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	2.1	45	11	0.00	0.00	1.5	0.25
20	0.00	0.00	0.00	0.00	0.00	2.2	34	11	0.00	0.00	86	0.14
21	0.00	0.00	0.00	0.00	2.1	2.0	22	9.9	0.00	0.00	22	0.00
22	0.00	0.00	0.00	0.00	4.4	2.1	16	8.2	0.00	0.00	1.3	0.00
23	0.00	0.00	0.00	0.00	2.2	2.6	13	7.0	0.00	e11	0.45	0.00
24	0.00	0.00	0.00	0.00	7.0	3.0	12	5.6	0.00	e82	e0.00	0.00
25	0.00	0.00	0.00	0.00	1.5	3.0	12	4.2	0.00	e228	0.00	0.00
26	0.00	0.00	0.00	0.00	1.1	3.8	10	3.2	0.00	e485	0.00	0.00
27	0.00	0.00	0.00	0.00	1.0	3.8	8.8	2.0	0.00	e116	0.00	0.00
28	0.00	0.00	0.00	0.00	2.8	5.4	6.4	1.4	0.00	e3.4	0.00	0.00
29	0.00	0.00	0.00	0.00	5.3	4.6	8.4	0.69	0.16	e0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	2.8	8.9	0.34	0.00	e0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	2.3	---	e0.18	---	0.00	0.00	---
TOTAL	122.86	0.75	0.00	0.00	27.40	118.3	2,237.1	579.21	0.24	925.40	169.34	137.95
MEAN	3.96	0.03	0.00	0.00	0.94	3.82	74.6	18.7	0.01	29.9	5.46	4.60
MAX	53	0.58	0.00	0.00	7.0	9.3	610	58	0.16	485	86	108
MIN	0.00	0.00	0.00	0.00	0.00	1.9	1.8	0.18	0.00	0.00	0.00	0.00
AC-FT	244	1.5	0.00	0.00	54	235	4,440	1,150	0.5	1,840	336	274

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2004, BY WATER YEAR (WY)

MEAN	7.66	2.78	1.26	2.63	11.0	15.6	19.6	39.0	14.9	16.4	23.7	13.2
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1953)	(1953)	(1953)	(1953)	(1953)	(1953)	(1964)	(1964)	(1953)	(1959)	(1962)	(1952)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1952 - 2004	
ANNUAL TOTAL	4,152.63		4,318.55			
ANNUAL MEAN	11.4		11.8		14.0	
HIGHEST ANNUAL MEAN					48.6	1973
LOWEST ANNUAL MEAN					1.11	1974
HIGHEST DAILY MEAN	1,010	Sep 10	610	Apr 4	2,000	Oct 20, 1957
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1951
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 16	0.00	Oct 1, 1951
MAXIMUM PEAK FLOW			2,560	Jul 25	a6,940	Jul 29, 1967
MAXIMUM PEAK STAGE			11.80	Jul 25	13.53	Jul 29, 1967
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Oct 1, 1951
ANNUAL RUNOFF (AC-FT)	8,240		8,570		10,160	
10 PERCENT EXCEEDS	16		26		38	
50 PERCENT EXCEEDS	0.00		0.00		0.10	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

a From rating curve extended above 1,300 ft^3/s, on basis of slope-area measurement at gage heights 7.75 ft and 10.60 ft.
e Estimated

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948-56 (published as "below Cabezon"), 1981-96, 2001 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Suspended sediment concentration mg/L (80154)
MAR			
17...	1155	2.4	12,100
APR			
06...	1422	37	21,300
06...	1425	37	21,000
20...	1110	37	13,000
20...	1117	37	12,600
MAY			
10...	1147	34	15,400
10...	1150	34	15,300

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 right 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 Jan. 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, 5,020 acre-ft, Apr. 16-19, elevation, 7,370.05 ft; minimum, 3,570 acre-ft, Sept. 28, 30, elevation, 7,366.06 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e4,470	e4,260	4,150	4,070	4,020	3,980	4,150	4,910	4,560	4,230	3,980	3,780
2	e4,460	e4,260	4,150	4,080	4,020	3,980	4,160	4,910	4,550	4,220	3,980	3,770
3	e4,460	e4,250	4,140	4,070	4,030	3,980	4,170	4,900	4,540	4,210	3,980	3,760
4	e4,450	e4,240	4,130	4,070	4,020	3,990	4,190	4,890	4,530	4,190	3,970	3,760
5	e4,440	e4,230	4,130	4,070	4,020	3,990	4,250	4,890	4,510	4,180	3,970	3,740
6	e4,430	e4,230	4,140	4,070	4,010	3,990	4,350	4,880	4,500	4,170	3,980	3,740
7	e4,430	e4,220	e4,140	4,060	4,010	3,990	4,470	4,870	4,490	4,160	3,970	3,730
8	e4,420	e4,220	4,140	4,060	4,010	3,990	4,560	4,860	4,480	4,150	3,960	3,720
9	e4,410	e4,210	4,130	4,060	4,000	3,990	4,650	4,850	4,470	4,140	3,950	3,720
10	e4,410	e4,210	4,130	4,060	4,000	3,990	4,740	4,840	4,450	4,140	3,950	3,710
11	e4,410	4,200	4,130	4,050	4,000	4,000	4,810	4,830	4,440	4,130	3,940	3,700
12	e4,400	4,220	4,120	4,040	4,000	4,020	4,900	4,810	4,430	4,120	3,930	3,700
13	e4,400	4,210	4,120	4,050	4,000	4,030	4,960	4,790	4,420	4,110	3,930	3,690
14	e4,390	4,220	4,130	4,050	3,990	4,060	5,000	4,780	4,400	4,110	3,920	3,670
15	e4,380	4,210	4,120	4,050	3,990	4,070	5,010	4,770	4,390	4,090	3,910	3,660
16	e4,370	4,200	4,110	4,040	3,990	4,090	5,020	4,760	4,380	4,090	3,900	3,650
17	e4,360	4,200	4,110	4,040	3,990	4,110	5,020	4,750	4,370	4,080	3,890	3,640
18	e4,350	4,200	4,110	4,040	3,990	4,130	5,020	4,730	4,350	4,070	3,880	3,640
19	e4,340	4,200	4,110	4,040	3,980	4,140	5,020	4,730	4,340	4,070	3,880	3,640
20	e4,340	4,200	4,100	4,040	3,980	4,160	5,010	4,710	4,320	4,060	3,880	3,630
21	e4,330	4,190	4,100	4,040	3,980	4,160	5,010	4,700	4,310	4,040	3,870	3,620
22	e4,330	4,180	4,090	4,030	3,980	4,170	5,000	4,680	4,300	4,040	3,870	3,610
23	e4,320	4,170	4,090	4,040	3,990	4,170	4,990	4,670	4,290	4,040	3,860	3,600
24	e4,310	4,180	4,090	4,040	3,980	4,180	4,990	4,660	4,280	4,040	3,840	3,600
25	e4,300	4,170	4,090	4,040	3,980	4,180	4,990	4,640	4,270	4,030	3,840	3,590
26	e4,290	4,160	4,090	4,030	3,980	4,170	4,980	4,630	4,260	4,020	3,830	3,580
27	e4,290	4,160	4,080	4,030	3,990	4,170	4,950	4,620	4,250	4,030	3,820	3,580
28	e4,280	4,160	4,080	4,030	3,990	4,160	4,940	4,610	4,250	4,010	3,810	3,570
29	e4,280	4,160	4,080	4,030	3,980	4,160	4,930	4,590	4,250	4,010	3,800	3,580
30	e4,270	4,150	4,080	4,030	---	4,160	4,920	4,580	4,240	4,000	3,790	3,570
31	e4,270	---	4,070	4,030	---	4,150	---	4,570	---	3,990	3,780	---
MAX	4,470	4,260	4,150	4,080	4,030	4,180	5,020	4,910	4,560	4,230	3,980	3,780
MIN	4,270	4,150	4,070	4,030	3,980	3,980	4,150	4,570	4,240	3,990	3,780	3,570
(+)	e7,368.11	7,367.77	7,367.54	7,367.43	7,367.79	7,367.77	7,369.81	7,368.92	7,368.03	7,367.31	7,366.70	7,366.06
(++)	-210	-120	-80	-40	-50	+170	+770	-350	-330	-250	-210	-210

CAL YR 2003 MAX 5,840 MIN 1,580 (++) +2,440
WTR YR 2004 MAX 5,020 MIN 3,570 (++) -910

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

08343000 RIO SAN JOSE AT GRANTS, NM

LOCATION.--Lat 35°09'16", long 107°52'11", in SW ¼ NW ¼ sec.26, T.11 N., R.10 W., Cibola County, Hydrologic Unit 13020207, on right bank 1,500 ft upstream from El Morro St., 0.2 mi south of Santa Fe Ave. in Grants, and at mile 67.8.

DRAINAGE AREA.--l,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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.49	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.10	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.6	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.6	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.35	0.61	0.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20	0.02	0.00
MAX	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58	0.49	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	136	1.2	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2004, BY WATER YEAR (WY)

MEAN	0.20	0.02	0.00	0.01	0.00	0.19	4.69	1.49	0.01	0.16	0.43	0.27
MAX	2.51	0.57	0.00	0.29	0.00	6.30	87.0	22.5	0.33	2.20	7.79	5.49
(WY)	(1970)	(1999)	(1969)	(1998)	(1969)	(1985)	(1980)	(1983)	(1999)	(2004)	(1993)	(1972)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1969)	(1969)	(1969)	(1969)	(1969)	(1969)	(1969)	(1969)	(1968)	(1968)	(1969)	(1968)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1968 - 2004	
ANNUAL TOTAL	0.03		68.97			
ANNUAL MEAN	0.00		0.19		0.62	
HIGHEST ANNUAL MEAN					8.10	1980
LOWEST ANNUAL MEAN					0.00	1978
HIGHEST DAILY MEAN	0.02	Jul 21	58	Jul 26	355	Apr 21, 1980
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Jun 1, 1968
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Jun 1, 1968
MAXIMUM PEAK FLOW			175	Jul 26	a1,760	Aug 28, 1952
MAXIMUM PEAK STAGE			3.43	Jul 26	5.35	Aug 28, 1952
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Jun 1, 1968
ANNUAL RUNOFF (AC-FT)	0.06		137		451	
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

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 ¼ SE ¼ 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 September 2004 (discontinued). Prior to October 1955, published as "San Jose River."

REVISED RECORDS.--WSP 898: 1936-39(M). WSP 1512: 1943. WSP 1712: drainage area.

GAGE.--Water-stage recorder with satellite telemetry 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, Aug. and Sept. 1929, and Aug. 1935.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	3.7	3.4	1.7	4.2	3.6	3.1	4.3	5.1	3.8	3.7	2.9
2	3.1	3.7	3.4	2.3	4.2	3.6	2.9	4.2	5.1	4.1	3.5	2.9
3	3.1	3.7	3.4	2.8	4.3	3.6	3.0	4.1	5.1	4.2	3.6	2.9
4	3.2	3.7	3.3	2.8	4.1	3.5	3.9	4.2	4.9	4.0	3.7	2.9
5	3.1	3.8	3.4	2.8	4.1	3.3	4.6	4.0	4.6	4.2	3.9	2.8
6	3.0	3.9	3.4	3.0	4.1	3.2	5.0	3.9	4.5	4.2	3.9	2.6
7	3.0	3.9	3.5	3.0	4.1	3.4	4.6	3.6	4.1	4.4	3.7	2.6
8	3.2	4.1	3.3	3.2	3.9	3.4	4.5	3.4	3.9	4.8	3.5	2.7
9	3.3	4.1	3.3	3.3	3.8	3.4	4.4	3.4	3.7	4.8	3.3	2.8
10	3.3	4.1	3.2	3.2	3.9	3.4	5.5	3.3	3.7	4.8	3.1	2.8
11	3.4	4.1	3.4	3.4	3.9	3.4	4.7	3.2	3.7	4.8	3.1	2.8
12	3.3	4.5	3.4	3.5	3.9	3.4	4.4	3.2	3.2	4.9	3.0	2.8
13	3.4	4.4	3.5	3.6	3.8	3.4	4.7	3.2	3.3	4.8	2.8	2.9
14	3.5	4.4	3.4	3.6	3.8	3.4	4.6	3.2	3.1	4.8	3.0	3.1
15	3.6	4.4	3.4	3.6	3.7	3.4	4.2	3.0	3.2	4.9	3.0	2.9
16	3.6	4.4	3.3	3.6	3.6	3.4	4.1	3.0	3.3	4.8	2.9	2.9
17	3.4	4.4	2.9	3.4	3.7	3.4	4.1	3.2	3.4	4.8	2.9	3.0
18	3.4	4.3	2.8	3.4	3.8	3.4	4.0	3.1	3.3	4.4	2.9	3.0
19	3.5	4.1	2.4	3.3	3.8	3.4	4.1	3.2	3.3	4.1	2.9	3.4
20	3.6	3.8	2.1	3.3	3.8	3.4	3.9	3.3	3.4	3.6	2.9	3.1
21	3.6	3.8	1.6	3.3	3.8	3.4	3.9	3.4	3.4	3.4	2.9	3.3
22	3.6	3.7	1.4	3.4	3.8	3.2	4.1	3.3	3.2	3.4	2.9	3.1
23	3.7	3.6	1.4	3.2	3.6	3.2	4.2	3.3	3.3	3.4	3.0	2.7
24	3.7	3.7	1.4	3.1	3.6	3.2	4.0	3.4	3.5	3.4	3.5	2.8
25	3.6	3.7	1.4	3.0	3.4	3.2	4.0	3.4	3.7	4.1	3.2	2.8
26	3.5	3.6	1.4	2.9	3.5	3.2	4.1	3.5	3.6	4.5	3.0	2.8
27	3.6	3.4	1.4	2.9	3.6	3.2	4.1	3.6	3.7	10	2.9	2.8
28	3.7	3.4	1.4	2.9	3.6	3.2	4.2	3.5	3.9	18	3.0	2.9
29	3.6	3.4	1.5	4.2	3.6	3.2	4.2	3.6	3.8	8.9	3.2	3.3
30	3.5	3.4	1.5	4.4	---	3.2	4.2	3.5	3.6	4.9	3.1	2.8
31	3.6	---	1.6	4.4	---	3.2	---	3.5	---	3.9	3.1	---
TOTAL	105.8	117.2	80.2	100.5	111.0	103.8	125.3	108.0	113.6	157.1	99.1	87.1
MEAN	3.41	3.91	2.59	3.24	3.83	3.35	4.18	3.48	3.79	5.07	3.20	2.90
MAX	3.7	4.5	3.5	4.4	4.3	3.6	5.5	4.3	5.1	18	3.9	3.4
MIN	3.0	3.4	1.4	1.7	3.4	3.2	2.9	3.0	3.1	3.4	2.8	2.6
AC-FT	210	232	159	199	220	206	249	214	225	312	197	173

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2004, BY WATER YEAR (WY)

MEAN	5.42	5.16	5.01	5.31	5.46	5.39	7.73	7.56	5.32	6.53	8.68	6.34
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	3.11	2.74	2.49	3.11	3.14	3.16	2.82
(WY)	(1990)	(1994)	(1994)	(1994)	(2000)	(2003)	(2003)	(1996)	(2002)	(2002)	(1994)	(2003)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1937 - 2004	
ANNUAL TOTAL	1,232.9		1,308.7			
ANNUAL MEAN	3.38		3.58		6.16	
HIGHEST ANNUAL MEAN					19.3	1941
LOWEST ANNUAL MEAN					3.41	2003
HIGHEST DAILY MEAN	11	Aug 10	18	Jul 28	538	Aug 30, 1957
LOWEST DAILY MEAN	1.4	Dec 22	1.4	Dec 22	1.4	Sep 6, 2002
ANNUAL SEVEN-DAY MINIMUM	1.4	Dec 22	1.4	Dec 22	1.4	Dec 22, 2003
MAXIMUM PEAK FLOW			22	Jul 28	a1,400	Sep 20, 1963
MAXIMUM PEAK STAGE			1.84	Jul 28	4.87	Sep 20, 1963
INSTANTANEOUS LOW FLOW			1.3	Dec 22	1.3	Sep 5, 2002
ANNUAL RUNOFF (AC-FT)	2,450		2,600		4,470	
10 PERCENT EXCEEDS	4.6		4.4		7.0	
50 PERCENT EXCEEDS	3.2		3.4		5.0	
90 PERCENT EXCEEDS	2.6		2.9		3.6	

a From rating curve extended above 450 ft^3/s, on basis of slope-area measurements at gage heights 3.19 ft 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 from bridge on former U.S. Highway 85, 0.2 mi upstream from Interstate Highway 25, 1.2 mi southwest of Bernardo, 3.0 mi upstream from mouth, and 18.0 mi south of Belen.

DRAINAGE AREA.--7,350 mi^2, approximately, of which at least 1,130 mi^2 does not contribute directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1939 to current year. Fragmentary gage-height record and footnotes concerning no flow for the period September 1910 to August 1914, published in WSP 358 and 388, are in error and should not be used.

REVISED RECORDS.--WSP 1512: 1941-42, 1944-45, 1946(P), 1947-49. WSP 1632: 1957. WSP 1732: drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,722.34 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 24, 1969, at datum 3.10 ft higher.

REMARKS.--Water-discharge records good except for those estimated, which are poor. Diversions for irrigation of about 11,500 acres upstream from station (includes 3,700 acres irrigated wholly or partly from wells). No flow much of the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--The greatest flood since about 1880 occurred Sept. 23, 1929, from information by local residents (discharge, about 35,000 ft^3/s, estimated on basis of peak at Rio Puerco). Another flood occurred Aug. 12, 1929 (discharge, 30,600 ft^3/s, by slope-area measurement, from reports of New Mexico State Engineer).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.03	0.02	0.05	e0.15	1.8	0.21	0.51	0.04	0.37	17	0.02
2	0.00	0.02	1.1	0.05	e0.10	1.8	0.08	0.20	0.03	0.02	50	0.01
3	0.03	0.01	1.5	0.04	0.20	2.0	5.1	0.14	0.05	0.00	22	0.01
4	0.06	0.01	0.86	0.04	0.04	7.4	219	0.10	0.05	0.00	6.2	0.03
5	0.03	0.02	0.08	0.04	0.03	4.2	433	0.08	0.03	0.00	3.5	0.03
6	146	0.02	e0.08	0.05	0.02	3.7	493	0.08	0.03	0.00	24	0.00
7	348	0.01	e0.08	0.06	0.03	3.3	1,140	0.08	0.03	0.00	4.8	2.6
8	177	0.03	e0.36	0.05	0.02	2.9	396	0.08	0.02	0.00	2.4	10
9	385	0.04	e0.48	0.05	0.24	2.3	110	0.07	0.02	0.00	6.3	4.0
10	60	0.04	e0.25	0.05	e0.25	1.6	168	0.07	0.02	0.00	18	1.2
11	21	0.04	e0.15	0.05	e0.62	1.2	69	12	0.01	0.00	11	0.16
12	26	0.06	e0.04	e0.93	1.7	1.9	336	14	0.01	0.16	4.5	0.02
13	47	0.13	e0.62	e0.76	1.1	1.9	318	11	0.02	0.00	2.5	0.03
14	15	0.04	e0.62	e0.62	e0.93	4.9	269	10	0.01	0.00	1.6	0.02
15	8.9	7.1	e0.36	e1.5	e0.48	8.0	77	7.8	0.01	0.00	1.3	0.01
16	4.2	19	e0.93	e1.7	e1.3	6.0	35	5.8	0.00	0.00	2.6	0.01
17	1.7	14	0.24	e1.5	e3.1	4.5	26	6.0	0.00	0.00	331	0.01
18	0.58	7.7	0.05	e1.7	e1.5	3.0	22	4.3	0.00	0.00	181	0.01
19	0.19	4.9	0.04	e0.48	2.3	2.2	20	2.0	0.00	0.00	34	0.04
20	0.05	3.5	0.04	e0.76	2.6	1.6	18	0.85	0.00	0.00	15	0.02
21	0.01	2.6	0.04	e1.1	2.7	1.2	18	0.19	0.00	0.00	9.4	0.00
22	0.01	2.2	0.04	e0.76	2.5	0.97	18	0.07	0.00	0.00	10	0.00
23	0.02	1.2	0.04	e0.76	2.1	0.86	14	0.07	0.01	56	46	0.01
24	0.01	0.70	0.04	e0.55	2.4	0.93	10	0.07	0.00	140	21	0.01
25	0.01	0.76	0.04	e0.60	2.4	0.68	7.5	0.08	0.00	147	15	3.7
26	0.00	1.1	0.04	e0.25	2.4	0.54	6.2	0.07	0.00	154	7.9	0.13
27	0.02	2.1	0.04	0.23	2.3	0.45	5.7	0.07	0.01	359	3.2	0.03
28	0.03	1.1	0.05	0.06	2.5	0.46	3.7	0.06	0.01	436	0.83	0.02
29	0.03	0.16	0.06	0.04	2.1	0.46	1.8	0.05	65	1,090	0.16	0.04
30	0.03	0.04	0.06	0.04	---	0.32	1.1	0.03	5.6	175	0.04	0.03
31	0.03	---	0.06	0.16	---	0.06	---	0.04	---	28	0.03	---
TOTAL	1,240.94	68.66	8.41	15.03	38.11	73.13	4,240.39	75.96	71.01	2,585.55	852.26	22.20
MEAN	40.0	2.29	0.27	0.48	1.31	2.36	141	2.45	2.37	83.4	27.5	0.74
MAX	385	19	1.5	1.7	3.1	8.0	1,140	14	65	1,090	331	10
MIN	0.00	0.01	0.02	0.04	0.02	0.06	0.08	0.03	0.00	0.00	0.03	0.00
AC-FT	2,460	136	17	30	76	145	8,410	151	141	5,130	1,690	44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	47.1	6.80	1.18	2.38	14.2	17.2	16.2	39.2	18.5	61.2	175	83.4
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1952)	(1940)	(1940)	(1940)	(1942)	(1942)	(1944)	(1950)	(1945)	(1942)	(2000)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	7,968.84		9,291.65			
ANNUAL MEAN	21.8		25.4		40.2	
HIGHEST ANNUAL MEAN					171	1941
LOWEST ANNUAL MEAN					4.80	2000
HIGHEST DAILY MEAN	2,220	Sep 14	1,140	Apr 7	5,980	May 5, 1941
LOWEST DAILY MEAN	0.00	Jun 15	0.00	Oct 1	0.00	Nov 1, 1939
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 21	0.00	Jun 16	0.00	Nov 1, 1939
MAXIMUM PEAK FLOW			1,650	Apr 7	a18,800	Sep 23, 1941
MAXIMUM PEAK STAGE			12.02	Apr 7	b16.90	Aug 12, 1955
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Nov 1, 1939
ANNUAL RUNOFF (AC-FT)	15,810		18,430		29,150	
10 PERCENT EXCEEDS	14		25		60	
50 PERCENT EXCEEDS	0.34		0.28		0.00	
90 PERCENT EXCEEDS	0.00		0.01		0.00	

a From rating curve extended above 7,800 ft^3/s.
b Maximum gage height, 16.9 ft, present datum, Aug. 12, 1955.
e Estimated

08353000 RIO PUERCO NEAR BERNARDO, NM—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1947 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	Turbidity, NTU (00076)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
NOV													
19...	1115	4.9	--	9,400	649	11.3	105	8.1	2,020	10.1	5.0	--	--
MAR													
15...	1227	8.1	--	--	--	--	--	--	--	--	--	--	--
15...	1240	8.1	--	70,000	647	8.0	97	8.0	2,350	21.0	16.0	--	--
APR													
08...	1140	176	--	24,000	640	8.6	97	8.2	1,240	15.0	12.5	240	71.4
16...	1005	36	--	26,000	648	9.5	105	7.9	1,370	19.4	12.2	--	--
19...	1400	20	--	19,000	641	8.3	99	8.2	1,730	24.0	15.0	390	118
MAY													
17...	1150	6.2	--	65,000	644	8.6	109	7.9	1,820	27.9	18.0	--	--
JUL													
23...	1530	13	E28,000	--	644	4.4	66	8.2	460	31.1	27.0	--	--
23...	1535	13	--	--	--	--	--	--	--	--	--	--	--
AUG													
02...	1120	11	--	--	--	--	--	--	--	--	--	--	--
02...	1135	34	17,000	--	647	6.7	93	8.0	1,660	30.5	23.0	--	--
SEP													
08...	1730	8.5	--	--	645	--	--	7.4	3,560	28.5	23.5	1,000	324

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)
NOV													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
08...	14.5	4.82	5	192	96	115	32.8	.7	6.8	433	5	.25	<2
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	24.0	5.70	5	245	133	159	67.9	.9	8.3	642	--	--	--
MAY													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
08...	52.1	19.3	6	437	--	--	252	.7	10.0	1,600	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)
NOV													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
08...	42	<.06	96	<.04	<.8	.269	5.0	E4	<.08	.8	5.2	1.61	E2
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	161	--	--	--	--	<6	--	--	--	--	--
MAY													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
08...	--	--	697	--	--	--	--	<19	--	--	--	--	--

08353000 RIO PUERCO NEAR BERNARDO, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)
NOV					
19...	--	--	--	--	4,210
MAR					
15...	--	--	--	--	64,000
15...	--	--	--	--	--
APR					
08...	<.2	1.4	4.74	98	37,200
16...	--	--	--	--	39,600
19...	--	--	--	100	28,300
MAY					
17...	--	--	--	--	55,900
JUL					
23...	--	--	--	--	--
23...	--	--	--	--	34,600
AUG					
02...	--	--	--	--	19,700
02...	--	--	--	--	--
SEP					
08...	--	--	--	100	99,600

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

08354800 RIO GRANDE CONVEYANCE CHANNEL AT SAN ACACIA, NM

LOCATION.--Lat 34°14'54", long 106°54'04", in SW ¼ sec.1, T.1 S., R.1 W., Socorro County, Hydrologic Unit 13020203, on right bank 75 ft upstream from railway crossing, 0.5 mi south of San Acacia, and 1.2 mi downstream from San Acacia diversion dam.

PERIOD OF RECORD.--October 1958 to September 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 September 2004 (discontinued). Daily records for 1958-64 are available in files at District Office.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,652.50 ft above National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation).

REMARKS.--Water-discharge records fair. The conveyance channel, constructed in 1958, is 1 of 3 channels (stations 08354500, 08354900) carrying flow in valley cross section. For combined monthly flow, in acre-feet, 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	289	0.18	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	294	0.13	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	296	0.05	0.00	e0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	292	0.00	0.00	e0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	294	0.00	0.00	e0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	298	0.00	0.00	e0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	298	0.00	0.00	e0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	294	0.00	0.00	e0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	249	0.00	0.00	e0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.2	0.00	0.00	e0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	e0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	107	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	110	0.37	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	309	0.28	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	292	0.23	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.18	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	711.00	2,719.38	0.36	0.00	0.00	0.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	23.7	87.7	0.01	0.00	0.00	0.00
MAX	0.00	0.00	0.00	0.00	0.00	0.00	309	298	0.18	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	1,410	5,390	0.7	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

MEAN	109	503	512	415	420	339	317	449	337	165	146	107
MAX	765	1,644	1,823	1,513	1,255	1,240	1,506	1,663	1,580	1,522	829	633
(WY)	(1985)	(1966)	(1966)	(1974)	(1962)	(1966)	(1979)	(1979)	(1980)	(1979)	(1967)	(1972)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1988)	(1988)	(1986)	(1988)	(1987)	(1991)	(1991)	(1995)	(1986)	(1987)	(1987)	(1987)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1959 - 2004	
ANNUAL TOTAL	0.00		3,430.74			
ANNUAL MEAN	0.00		9.37		317	
HIGHEST ANNUAL MEAN					1,033	1973
LOWEST ANNUAL MEAN					0.00	2003
HIGHEST DAILY MEAN	0.00	Jan 1	309	Apr 29	1,950	May 12, 1966
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Jul 22, 1959
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Jul 20, 1963
ANNUAL RUNOFF (AC-FT)	0.00		6,800		230,000	
10 PERCENT EXCEEDS	0.00		0.06		1,170	
50 PERCENT EXCEEDS	0.00		0.00		4.2	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM

LOCATION.--Lat 34°15'23", long 106°53'18", Socorro County, Hydrologic Unit 13020203, in Sevilleta Grant, on right bank 0.2 mi downstream from San Acacia diversion dam, 0.3 mi east of San Acacia, 2.0 mi downstream from Rio Salado, and at mile 1,472.6.

DRAINAGE AREA.--26,770 mi^2, approximately, including 2,940 mi^2 in closed basin in San Luis Valley, Colorado.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1936 to September 1958 (prior to construction of conveyance channel), October 1958 to September 1964 (flow in conveyance channel included), October 1964 to current year. Prior to October 1964 published as 08355000 "Rio Grande at San Acacia" and records are not equivalent.

REVISED RECORDS.--WSP 1242: 1951. WSP 1732: 1958(M). WRD 1969: 1967.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,654.50 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 19, 1953, at several sites 0.1 mi upstream at different datums. Mar. 19, 1953, to Aug. 19, 1965, at site 0.4 mi downstream at datum 3.60 ft higher. Aug. 19, 1965, to Aug. 15, 1967, at same site at datum 1.89 ft higher. Datum on Aug. 21, 1987, was lowered 2.00 ft; on April 26, 1996, 1,000 ft was added to gage datum. Floodway is bypassed by Socorro Main Canal North and since Oct. 1958 by conveyance channel.

REMARKS.--Water-discharge records fair except for those estimated, which are poor. Floodway is 1 of 3 channels (stations 08354500, 08354800) carrying flow in valley cross section. For combined monthly flow, in acre-feet, of floodway, conveyance channel, and Socorro Main Canal North, see tabulation below. Tabulation no longer computed because conveyance channel and Socorro Main Canal North have been discontinued. Diversions upstream from station for irrigation of about 760,000 acres; this includes Socorro Main Canal North, which bypasses station and irrigates about 8,600 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. 30 years (water years 1974-2003), 1,354 ft^3/s, 980,970 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, 3,180 ft^3/s, Apr. 8; minimum daily, 0.00 ft^3/s, Aug. 15, Sept. 9 and 11.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	188	628	563	565	532	1,650	324	506	272	138	1.9
2	6.4	195	585	481	548	558	1,680	368	422	258	104	7.0
3	9.1	219	582	481	544	535	1,490	465	380	224	375	5.4
4	15	236	572	506	540	545	3,160	493	e310	157	155	4.6
5	13	246	591	523	541	555	2,740	471	e240	144	137	5.9
6	14	252	605	565	539	679	2,730	725	e170	119	e150	5.5
7	313	261	627	561	545	723	2,750	1,070	e190	80	e100	2.2
8	414	277	617	557	557	580	3,180	1,170	168	45	e70	0.86
9	422	302	568	551	565	546	2,590	1,480	172	39	e45	0.00
10	273	310	571	509	571	499	2,670	2,160	191	34	18	0.09
11	262	316	559	518	576	482	2,480	2,060	196	27	e8.0	0.00
12	244	338	587	542	577	442	2,640	1,910	173	25	e10	0.77
13	266	362	634	561	569	459	2,590	1,860	171	18	e5.0	0.82
14	308	401	610	565	556	480	2,420	1,970	152	14	7.4	0.81
15	205	488	578	568	525	518	1,960	2,200	140	15	0.00	0.73
16	161	507	520	582	536	519	1,960	2,270	118	16	30	0.46
17	149	489	497	572	537	495	1,930	2,320	117	17	344	1.1
18	129	481	515	576	539	610	1,640	2,230	112	17	333	1.5
19	107	478	564	593	537	814	1,530	1,690	103	18	156	1.8
20	77	488	567	629	531	836	1,350	1,480	92	18	74	1.9
21	42	510	563	647	529	882	1,230	1,430	79	19	52	2.5
22	75	521	539	649	539	813	1,330	1,260	72	48	45	2.3
23	63	516	556	648	554	801	1,210	1,430	61	249	46	1.8
24	67	500	552	660	590	666	1,090	1,560	54	398	58	4.7
25	55	493	561	678	602	626	862	1,520	47	712	12	5.2
26	59	525	650	674	899	635	710	1,320	43	630	13	2.9
27	50	545	698	644	628	672	645	1,200	40	1,040	14	2.1
28	47	605	649	638	604	752	456	947	40	866	12	1.5
29	77	630	641	631	580	946	349	859	101	1,230	9.3	2.7
30	93	620	646	656	---	1,060	311	694	290	812	7.7	2.1
31	77	---	627	608	---	1,070	---	659	---	212	4.9	---
TOTAL	4,095.3	12,299	18,259	18,136	16,523	20,330	53,333	41,595	4,950	7,773	2,533.30	71.14
MEAN	132	410	589	585	570	656	1,778	1,342	165	251	81.7	2.37
MAX	422	630	698	678	899	1,070	3,180	2,320	506	1,230	375	7.0
MIN	2.8	188	497	481	525	442	311	324	40	14	0.00	0.00
AC-FT	8,120	24,400	36,220	35,970	32,770	40,320	105,800	82,500	9,820	15,420	5,020	141

CAL YR	2003	TOTAL	109,253.92	MEAN	299	MAX	2,160	MIN	0.35	AC-FT	216,700
WTR YR	2004	TOTAL	199,897.74	MEAN	546	MAX	3,180	MIN	0.00	AC-FT	396,500

e Estimated

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1937-56, 1959 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	Turbidity, NTU (00076)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
OCT													
29...	1000	82	--	260	641	9.4	102	7.7	701	17.0	11.0	--	--
NOV													
19...	1015	472	--	640	653	10.2	100	7.6	663	10.9	7.5	--	--
DEC													
10...	1045	573	--	490	646	11.2	104	7.8	635	6.0	5.0	--	--
19...	1105	555	--	--	652	11.4	99	8.5	596	9.0	3.0	190	59.1
JAN													
22...	1315	638	--	110	649	11.4	108	8.1	619	11.5	6.0	--	--
MAR													
01...	1130	517	--	--	--	--	--	--	--	--	--	--	--
01...	1135	517	--	3.7	652	10.6	100	7.9	576	15.5	6.0	--	--
16...	1135	521	--	820	649	9.1	100	7.9	565	21.0	12.0	--	--
16...	1150	521	--	--	--	--	--	--	--	--	--	--	--
APR													
15...	1430	1,930	--	2,600	646	8.6	105	7.8	512	26.7	17.0	--	--
16...	1340	1,910	--	--	645	8.0	94	8.1	470	24.5	15.0	130	43.2
MAY													
24...	1455	1,650	--	100	642	7.2	94	7.8	393	31.5	19.8	--	--
24...	1500	1,640	--	--	--	--	--	--	--	--	--	--	--
JUN													
18...	1015	113	--	36	647	7.8	102	8.4	644	31.0	20.0	210	65.3
22...	1030	74	28	--	648	7.0	95	8.3	686	22.7	22.0	--	--
22...	1523	74	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	1320	113	110	--	647	7.4	106	8.0	615	30.6	25.0	--	--
06...	1340	113	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	1730	164	--	--	646	6.7	100	8.4	651	32.0	27.0	200	66.6
09...	1118	47	--	--	--	--	--	--	--	--	--	--	--
09...	1130	47	280	--	644	6.8	97	8.1	673	29.1	24.6	--	--
SEP													
03...	1230	5.7	160	--	--	--	--	8.3	995	29.5	24.0	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
OCT													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	10.3	5.54	2	55.6	145	172	3	32.9	.6	24.1	92.8	371	.30
JAN													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	6.56	4.51	2	44.7	113	136	--	24.4	.5	21.6	73.6		.30
MAY													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
18...	11.2	5.76	2	58.5	164	194	3	37.5	.6	23.1	99.4	400	.20
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	8.67	5.66	2	54.1	167	198	3	36.0	.6	26.5	106		.26
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, fltrd, mg/L (00666)	Phos-phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli-form, M-FC 0.7u MF col/ 100 mL (31625)	Alum-inum, water, fltrd, ug/L (01106)	Anti-mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)
OCT													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	.80	<.01	.07	.42	<.010	.16	.16	.43	<4	93	E1	E.10	E1
JAN													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	2.1	.01	.05	.41	<.010	.06	.07	1.10	>16,000	>12,000	3	.21	4
MAY													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
18...	.40	.01	.02	<.02	<.010	.13	.15	.22	>5,300	90	M	E.16	6
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	.81	<.04	<.100	.48	<.008	.18	.200	.51	E1,000	670	4	E.19	7
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Barium, water, fltrd, ug/L (01005)	Beryll-ium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chrom-ium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan-ese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recover -able, ug/L (71900)	Molyb-denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)
OCT													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
19...	90	<.06	119	E.03	<.8	.508	.8	<6	<.08	28.5	E.01	6.1	1.85
JAN													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	44	<.06	99	E.02	<.8	.344	1.6	E4	<.08	3.6	.08	5.0	1.63
MAY													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
18...	96	<.06	133	E.02	<.8	.517	1.6	<6	<.08	11.0	<.02	6.3	.28
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
05...	92	<.06	135	E.04	<.8	.863	1.8	<6	<.08	18.1	E.01	7.3	2.95
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
03...	--	--	--	--	--	--	--	--	--	--	--	--	--

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
OCT							
29...	--	--	--	--	--	--	241
NOV							
19...	--	--	--	--	--	--	4,450
DEC							
10...	--	--	--	--	--	--	749
19...	<3	<3	<.2	1.6	2.78	24	1,510
JAN							
22...	--	--	--	--	--	--	331
MAR							
01...	--	--	--	--	--	--	440
01...	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	2,960
APR							
15...	--	--	--	--	--	--	4,580
16...	<3	<3	<.2	1.8	2.71	77	2,970
MAY							
24...	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	328
JUN							
18...	<3	<3	<.2	2.1	2.60	97	46
22...	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	53
JUL							
06...	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	266
AUG							
05...	<3	<3	<.2	.9	2.73	94	687
09...	--	--	--	--	--	--	360
09...	--	--	--	--	--	--	--
SEP							
03...	--	--	--	--	--	--	185

Remark codes used in this table:
< -- Less than
> -- Greater than
E -- Estimated value
M -- Presence verified, not quantified

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Mean stream depth, feet (00064)	Instantaneous discharge, cfs (00061)	Stream velocity, ft/s (00055)	Stream width, feet (00004)	Temperature, water, deg C (00010)	Suspnd. sediment, falldia dst wat percent <.002mm (70337)	Suspnd. sediment, falldia dst wat percent <.004mm (70338)	Suspnd. sediment, falldia dst wat percent <.008mm (70339)	Suspnd. sediment, falldia dst wat percent <.016mm (70340)	Suspnd. sediment, falldia dst wat percent <.063mm (70342)	Suspnd. sediment, falldia dst wat percent <.125mm (70343)	Suspnd. sediment, falldia dst wat percent <.25mm (70344)
DEC													
01...	1345	1.6	643	2.49	160	7.5	--	--	--	--	--	--	--
18...	1340	1.9	501	2.49	109	4.0	--	--	--	--	56	59	82
JAN													
14...	1325	2.1	560	2.24	120	6.0	--	--	--	--	59	68	88
FEB													
19...	1055	2.4	534	2.18	102	8.5	--	--	--	--	77	81	91
MAR													
16...	1210	2.3	525	2.22	102	13.0	69	80	81	84	88	89	93
APR													
15...	1415	2.5	1,940	4.72	162	17.0	53	61	64	68	76	78	94
MAY													
24...	1445	4.0	1,610	2.56	158	20.0	--	--	--	--	51	53	62
JUN													
22...	1005	1.0	71	1.20	58.0	22.0	--	--	--	--	--	--	--
JUL													
06...	1130	1.3	116	1.77	52.0	25.0	--	--	--	--	86	86	94

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Suspnd. sedi-ment, falldia dst wat percent <.5 mm (70345)	Suspnd. sedi-ment, falldia dst wat percent <1 mm (70346)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Suspnd. sedi-ment, sieve diametr percent <1 mm (70335)	Suspnd. sedi-ment, sieve diametr percent <2 mm (70336)	Sus-pended sedi-ment concen-tration mg/L (80154)
DEC						
01...	--	--	74	--	--	201
18...	100	--	--	--	--	635
JAN						
14...	98	100	--	--	--	388
FEB						
19...	100	--	--	--	--	365
MAR						
16...	100	--	--	--	--	1,060
APR						
15...	100	--	--	--	--	4,960
MAY						
24...	95	--	--	99	100	417
JUN						
22...	--	--	71	--	--	52
JUL						
06...	100	--	--	--	--	144

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Mean stream depth, feet (00064)	Instan-taneous dis-charge, cfs (00061)	Stream veloc-ity, ft/s (00055)	Stream width, feet (00004)	Temper-ature, water, deg C (00010)	Bed sedi-ment, dry svd sve dia percent <.063mm (80164)	Bed sedi-ment, dry svd sve dia percent <.125mm (80165)	Bed sedi-ment, dry svd sve dia percent <.25mm (80166)	Bed sedi-ment, dry svd sve dia percent <.5 mm (80167)	Bed sedi-ment, dry svd sve dia percent <1 mm (80168)	Bed sedi-ment, dry svd sve dia percent <2 mm (80169)	Bed sedi-ment, dry svd sve dia percent <4 mm (80170)
DEC													
01...	1355	1.6	643	2.49	160	7.5	.0	2	41	78	88	91	94
18...	1350	1.9	501	2.49	109	4.0	.0	.0	12	66	90	96	99
JAN													
14...	1335	2.1	560	2.24	120	6.0	.0	1	18	78	93	97	99
FEB													
19...	1105	2.4	534	2.18	102	8.5	.0	.0	7	55	86	94	97
MAR													
16...	1240	2.3	525	2.22	102	13.0	.0	3	11	45	70	84	93
APR													
15...	1345	2.5	1,940	4.72	162	17.0	.0	2	26	84	97	98	99
MAY													
24...	1345	4.0	1,610	2.56	158	20.0	.0	.0	4	44	77	87	93
JUN													
22...	1005	1.0	71	1.20	58.0	22.0	.0	1	13	58	81	87	91
JUL													
06...	1125	1.3	116	1.77	52.0	25.0	.0	.0	16	87	98	100	--
AUG													
09...	1120	.96	48	.76	66.0	24.5	1	3	23	54	72	80	86

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Bed sedi-ment, dry svd sve dia percent <8 mm (80171)	Bed sedi-ment, dry svd sve dia percent <16 mm (80172)
DEC		
01...	97	100
18...	99	100
JAN		
14...	99	100
FEB		
19...	99	100
MAR		
16...	99	100
APR		
15...	99	100
MAY		
24...	97	100
JUN		
22...	95	100
JUL		
06...	--	--
AUG		
09...	91	100

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 at San Marcial, 0.4 mi northwest of Atchison, Topeka and Santa Fe Railway Co. bridge over floodway channel, 1.0 mi southwest of former site of San Marcial, 3.5 mi downstream from railroad bridge near Tiffany siding, and 51 mi downstream from heading at San Acacia.

PERIOD OF RECORD.--October 1958 to September 1959, October 1964 to current year. Prior to October 1964, monthly discharge only published with record for "Rio Grande at San Marcial" (station 08358500).

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,454.00 ft above National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to Apr. 29, 1958, at datum 4.19 ft higher.

REMARKS.--Records good except for those estimated, which are poor. Conveyance channel is 1 of 2 channels (station 08358400) carrying flow in valley cross section. For combined monthly flow, in acre-feet, of this channel and floodway, see tabulation below daily table for station 08358400. Flow from the river has been diverted since 1965.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e12	67	133	159	178	259	169	154	189	121	81	e25
2	0.00	64	135	157	177	224	186	161	157	152	109	e25
3	0.00	50	144	158	169	226	300	209	122	137	122	e18
4	0.27	60	148	159	163	244	375	225	124	146	156	e17
5	0.30	54	134	165	162	256	406	256	113	167	105	e15
6	31	73	134	161	164	253	375	289	90	170	137	e17
7	70	71	133	154	165	260	331	277	99	157	158	e6.8
8	106	64	137	156	168	279	270	293	69	141	169	e4.1
9	165	71	154	156	170	266	285	328	58	126	171	e6.3
10	110	80	151	156	177	283	327	344	55	130	125	4.7
11	95	65	142	159	172	264	362	305	57	133	149	2.8
12	58	69	140	160	169	264	360	329	64	110	91	3.3
13	33	76	146	159	167	243	354	341	87	60	72	5.9
14	76	82	147	161	168	234	359	345	85	52	68	3.1
15	58	89	144	163	167	221	319	316	92	50	66	1.4
16	52	105	144	170	164	191	290	332	85	64	140	2.9
17	44	98	143	169	166	197	312	339	83	57	172	0.12
18	41	89	143	169	165	163	351	325	74	60	187	3.5
19	59	95	145	168	168	179	317	316	85	53	188	4.0
20	61	73	143	168	165	201	270	238	89	55	178	6.4
21	64	89	148	161	166	193	308	241	71	52	172	5.7
22	83	77	157	157	167	204	253	269	60	38	165	2.4
23	89	116	151	157	167	201	213	272	62	32	139	0.08
24	64	122	150	159	168	212	219	303	71	49	99	0.00
25	49	115	150	157	168	170	192	235	64	49	118	0.53
26	65	114	149	157	168	168	230	240	61	134	87	15
27	80	119	154	157	200	164	182	212	75	161	e59	44
28	77	124	151	156	261	147	171	212	67	111	e42	49
29	60	134	155	158	258	134	164	195	56	146	e40	31
30	55	137	158	169	---	174	172	251	84	130	e39	84
31	66	---	163	181	---	183	---	208	---	129	e35	---
TOTAL	1,823.57	2,642	4,526	4,996	5,087	6,657	8,422	8,360	2,548	3,172	3,639	404.03
MEAN	58.8	88.1	146	161	175	215	281	270	84.9	102	117	13.5
MAX	165	137	163	181	261	283	406	345	189	170	188	84
MIN	0.00	50	133	154	162	134	164	154	55	32	35	0.00
AC-FT	3,620	5,240	8,980	9,910	10,090	13,200	16,710	16,580	5,050	6,290	7,220	801

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY)

MEAN	256	467	461	391	386	406	428	495	428	313	267	239
MAX	759	1,729	1,880	1,558	1,112	1,394	1,679	1,782	1,652	1,690	986	730
(WY)	(1985)	(1970)	(1966)	(1974)	(1985)	(1966)	(1966)	(1969)	(1973)	(1973)	(1973)	(1972)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1969)	(1977)	(1975)	(1975)	(1975)	(1977)	(1976)	(1976)	(1976)	(1976)	(1976)	(1974)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1965 - 2004	
ANNUAL TOTAL	39,011.29		52,276.60			
ANNUAL MEAN	107		143		378	
HIGHEST ANNUAL MEAN					1,137	1973
LOWEST ANNUAL MEAN					0.00	1977
HIGHEST DAILY MEAN	304	Mar 5	406	Apr 5	2,200	May 14, 1966
LOWEST DAILY MEAN	0.00	Aug 4	0.00	Oct 2	0.00	Sep 7, 1968
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 4	2.7	Sep 19	0.00	Sep 7, 1968
ANNUAL RUNOFF (AC-FT)	77,380		103,700		273,700	
10 PERCENT EXCEEDS	189		270		960	
50 PERCENT EXCEEDS	108		148		258	
90 PERCENT EXCEEDS	2.0		37		0.36	

e Estimated

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM

LOCATION.--Lat 33°40'45", long 106°59'42", Socorro County, Hydrologic Unit 13020203, in Pedro Armendaris Grant No. 33, 500 ft downstream from 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, Colorado.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1964 to current year. Records collected at this site January 1895 to September 1964 represented total flow of the river and were published as "Rio Grande at San Marcial" (station 08358500). Records of daily discharge for floodway only, April 1950 to September 1964, are available in files of District office.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,455.19 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records fair except for those estimated, which are poor. Floodway is 1 of 2 channels (station 08358300) carrying flow in valley cross section. Prior to 1950, all flow was in floodway channel. Combined monthly discharge in acre-feet is given at end of each year's table. Diversion for irrigation of about 775,000 acres upstream from station (includes about 13,800 acre-ft diverted from conveyance channel).

AVERAGE DISCHARGE.--40 years (water years 1965-2004), 755 ft^3/s, 547,000 acre-ft/yr. Total flow of river, 109 years (water years 1895-2004), 1,237 ft^3/s, 896,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, since Jan. 1895, about 50,000 ft^3/s, Oct. 11, 1904; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,020 ft^3/s, Apr. 8; minimum daily discharge, 20 ft^3/s, Sept. 18, 19.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	e40	439	514	393	401	724	187	588	57	88	35
2	31	e44	428	367	344	367	702	142	549	86	71	34
3	32	e87	375	e251	328	381	765	105	440	79	53	38
4	34	e85	362	e247	327	379	1,320	182	367	66	251	39
5	40	e120	354	e220	322	382	1,730	365	324	47	155	38
6	41	e100	371	e267	321	389	2,230	318	228	44	90	41
7	40	e108	393	350	320	429	2,610	498	134	40	114	33
8	e276	e118	415	345	329	570	2,780	861	e89	44	115	31
9	e299	e140	425	341	337	443	2,720	1,030	e70	42	e78	36
10	e335	e154	397	339	350	390	2,400	e1,100	e63	39	54	32
11	e163	e144	390	288	359	347	2,390	1,560	e58	43	41	29
12	e181	e142	383	279	361	330	2,370	1,450	e75	39	41	30
13	e165	e184	398	301	e390	288	2,520	1,290	e64	43	39	33
14	e188	e209	443	324	373	278	2,670	1,220	e55	52	35	27
15	e252	e226	427	338	363	292	2,320	1,320	e51	57	38	25
16	e152	e282	381	345	325	304	1,710	1,390	e46	60	48	29
17	e90	e343	342	347	320	314	1,540	1,390	e47	37	37	21
18	e64	e322	e320	332	317	297	1,320	1,480	e44	36	160	20
19	e65	e308	309	334	313	325	1,110	1,400	e49	35	195	20
20	e51	e312	348	348	304	492	1,030	1,250	e53	33	133	22
21	e47	e318	361	371	301	566	750	1,150	e57	42	102	23
22	e43	e326	358	393	302	596	664	1,060	e56	44	88	23
23	e48	e309	323	402	309	602	895	954	60	40	62	23
24	e37	e332	332	407	322	568	769	992	61	83	69	23
25	e40	e334	336	409	354	482	699	986	57	290	73	21
26	e36	e327	335	426	363	389	516	895	52	399	63	26
27	e37	e335	385	438	561	361	430	763	57	305	50	27
28	e33	e389	495	416	454	405	359	759	53	499	46	24
29	e41	406	528	392	423	434	300	683	53	487	44	28
30	e37	443	533	382	---	557	234	656	57	664	44	29
31	e41	---	607	420	---	673	---	588	---	276	42	---
TOTAL	2,973	6,987	12,293	10,933	10,185	13,031	42,577	28,024	3,957	4,108	2,519	860
MEAN	95.9	233	397	353	351	420	1,419	904	132	133	81.3	28.7
MAX	335	443	607	514	561	673	2,780	1,560	588	664	251	41
MIN	31	40	309	220	301	278	234	105	44	33	35	20
AC-FT	5,900	13,860	24,380	21,690	20,200	25,850	84,450	55,590	7,850	8,150	5,000	1,710
(+)	9,520	19,100	33,360	31,600	30,290	39,050	101,160	72,170	12,900	14,440	12,220	2,510

CAL YR 2003 TOTAL 62,794 MEAN 172 MAX 1,030 MIN 16 AC-FT 124,600 (+) MEAN 279 AC-FT 202,100
WTR YR 2004 TOTAL 138,447 MEAN 378 MAX 2,780 MIN 20 AC-FT 274,600 (+) MEAN 521 AC-FT 377,500

(+) Combined flow, in acre-ft, and mean, in cubic feet per second, of Floodway and Conveyance Channel.
e Estimated

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1905-07, 1946 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	Turbidity, NTU (00076)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
OCT													
29...	1330	39	--	140	642	9.6	115	7.9	1,080	27.7	15.5	--	--
NOV													
21...	1100	317	--	3,300	647	10.6	112	7.7	643	16.5	10.5	--	--
DEC													
10...	1245	398	--	2,300	648	11.7	104	8.0	598	10.0	3.5	--	--
17...	1300	342	--	2,200	655	12.3	101	8.4	618	10.0	1.0	200	61.3
JAN													
22...	1130	398	--	600	653	11.4	100	8.4	620	7.2	3.5	--	--
FEB													
18...	1225	312	--	--	--	--	--	--	--	--	--	--	--
18...	1305	312	--	3.3	657	10.2	99	7.8	668	20.8	7.5	--	--
MAR													
11...	1225	327	--	640	656	9.0	95	8.0	610	13.3	10.8	--	--
11...	1336	327	--	--	--	--	--	--	--	--	--	--	--
APR													
15...	1430	2,260	--	3,800	649	8.4	96	8.1	631	27.0	14.0	160	50.4
28...	1030	381	--	990	647	8.1	98	8.0	516	22.9	16.5	--	--
MAY													
20...	1110	1,330	--	200	650	7.7	99	7.9	393	32.7	19.5	--	--
20...	1115	1,330	--	--	--	--	--	--	--	--	--	--	--
JUN													
08...	1135	75	130	--	646	7.4	103	8.1	885	30.5	23.0	--	--
17...	1130	48	--	29	660	7.8	103	8.2	1,220	31.0	21.5	280	83.4
JUL													
20...	1348	33	--	--	--	--	--	--	--	--	--	--	--
20...	1400	33	44	--	650	6.5	109	8.1	1,200	28.7	34.0	--	--
AUG													
02...	1430	71	1,400	--	647	7.0	105	8.5	967	28.5	27.0	--	--
02...	1532	65	--	--	--	--	--	--	--	--	--	--	--
05...	1300	125	--	--	652	6.6	94	8.0	763	35.0	25.0	210	65.8
SEP													
02...	1315	35	260	--	651	7.8	113	8.2	1,100	32.0	25.8	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
OCT													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	10.5	4.89	2	58.4	148	176	2	37.3	.6	23.1	96.4		<.20
JAN													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
15...	8.10	4.91	2	65.0	115	138	--	28.5	.5	18.0	142		<.20
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	16.9	7.85	4	158	202	241	--	137	.6	25.5	196	744	<.20
JUL													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
05...	10.6	5.54	2	73.1	153	184	--	54.1	.6	20.8	142		.27
SEP													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, fltrd, mg/L (00666)	Phos-phorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli-form, M-FC 0.7u MF col/ 100 mL (31625)	Alum-inum, water, fltrd, ug/L (01106)	Anti-mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)
OCT													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	1.7	<.01	.03	.59	<.010	.19	.19	.91	<17	430	M	E.14	6
JAN													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
15...	5.6	<.01	.04	.56	<.010	.04	.04	2.70	E3,200	E200	3	.21	2
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	.40	.01	.04	<.02	<.010	.04	.05	.10	300	E1,400	M	<.20	6
JUL													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
05...	14	<.04	<.100	.58	<.008	.06	.074	E5.03	E130	1,800	4	E.15	4
SEP													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Barium, water, fltrd, ug/L (01005)	Beryll-ium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chrom-ium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan-ese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recover -able, ug/L (71900)	Molyb-denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)
OCT													
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	60	<.06	123	.04	<.8	.525	.9	<6	<.08	1.5	.04	6.3	1.38
JAN													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
15...	51	<.06	111	E.04	<.8	.356	2.3	E4	<.08	.8	.24	5.2	1.68
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	93	<.06	241	E.02	<.8	.490	1.7	<6	<.08	3.8	<.02	7.7	1.85
JUL													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
05...	87	<.06	140	.10	<.8	.404	2.4	<6	<.08	.2	.35	6.0	2.46
SEP													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Ra-226, water, fltrd, radon method pCi/L (09511)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
OCT								
29...	--	--	--	--	--	--	--	178
NOV								
21...	--	--	--	--	--	--	--	2,700
DEC								
10...	--	--	--	--	--	--	--	2,080
17...	<3	<3	<.2	2.4	--	2.81	84	1,480
JAN								
22...	--	--	--	--	--	--	--	1,860
FEB								
18...	--	--	--	--	--	--	--	908
18...	--	--	--	--	--	--	--	--
MAR								
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	1,160
APR								
15...	<3	<3	<.2	2.0	--	3.12	90	7,920
28...	--	--	--	--	--	--	--	1,420
MAY								
20...	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	1,640
JUN								
08...	--	--	--	--	--	--	--	186
17...	<3	<3	<.2	1.5	--	1.61	84	74
JUL								
20...	--	--	--	--	--	--	--	107
20...	--	--	--	--	--	--	--	--
AUG								
02...	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	1,490
05...	<3	<13	<.2	1.1	.10	2.28	99	13,200
SEP								
02...	--	--	--	--	--	--	--	267

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	Atrazine, water, fltrd, ug/L (39632)	Azinphos-methyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Butylate, water, fltrd, ug/L (04028)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbofuran, water, fltrd 0.7u GF ug/L (82674)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)
DEC													
17...	1300	<.006	<.006	<.006	<.005	<.005	E.006	<.050	<.010	<.004	<.041	<.020	<.006
AUG													
05...	1300	<.006	<.006	<.006	<.005	<.005	<.007	<.050	<.010	<.004	<.041	<.020	<.006

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Cyanazine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon, water, fltrd, ug/L (39572)	Dieldrin, water, fltrd, ug/L (39381)	Disulfoton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethalfluralin, water, fltrd 0.7u GF ug/L (82663)	Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Desulfinyl-fipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)
DEC													
17...	<.018	<.003	<.012	<.005	<.009	<.02	<.004	<.009	<.005	E.003	<.013	<.024	<.016
AUG													
05...	<.018	<.003	<.012	<.005	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Fonofos water, fltrd, ug/L (04095)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Napropamide, water, fltrd 0.7u GF ug/L (82684)	p,p'-DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)	Pebulate, water, fltrd 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)
DEC													
17...	<.003	<.004	<.035	<.027	<.015	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022
AUG													
05...	<.003	<.004	<.035	<.027	<.015	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Phorate water fltrd 0.7u GF ug/L (82664)	Prometon, water, fltrd, ug/L (04037)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Simazine, water, fltrd, ug/L (04035)	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Terbacil, water, fltrd 0.7u GF ug/L (82665)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Thiobencarb water fltrd 0.7u GF ug/L (82681)	Triallate, water, fltrd 0.7u GF ug/L (82678)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)
DEC													
17...	<.011	.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	<.009
AUG													
05...	<.011	E.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	<.009

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Mean stream depth, feet (00064)	Instantaneous discharge, cfs (00061)	Stream velocity, ft/s (00055)	Stream width, feet (00004)	Temperature, water, deg C (00010)	Suspnd. sediment, falldia dst wat percent <.002mm (70337)	Suspnd. sediment, falldia dst wat percent <.004mm (70338)	Suspnd. sediment, falldia dst wat percent <.008mm (70339)	Suspnd. sediment, falldia dst wat percent <.016mm (70340)	Suspnd. sediment, falldia dst wat percent <.063mm (70342)	Suspnd. sediment, falldia dst wat percent <.125mm (70343)	Suspnd. sediment, falldia dst wat percent <.25mm (70344)
OCT													
01...	1405	.59	32	1.26	43.0	23.5	--	--	--	--	--	--	--
NOV													
28...	1220	1.7	389	2.61	87.0	1.5	50	62	75	85	91	92	99
DEC													
15...	1200	2.0	409	2.12	94.0	4.0	45	59	66	76	84	86	98
JAN													
07...	1335	1.9	356	2.08	91.0	1.0	--	--	--	--	76	80	99
FEB													
20...	1200	1.6	298	1.99	92.0	9.0	43	46	50	62	73	81	99
MAR													
11...	1328	1.7	327	2.07	92.0	11.0	45	54	63	71	84	92	99
APR													
01...	1415	1.8	756	2.17	192	14.5	36	43	49	58	76	87	99
MAY													
05...	1315	2.1	358	1.82	93.0	22.0	46	57	61	69	82	91	99
JUN													
10...	0920	1.3	63	1.10	45.0	--	--	--	--	--	89	--	--
JUL													
06...	1400	1.0	58	1.31	43.0	28.0	74	67	79	89	98	99	100

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Suspnd. sediment, falldia dst wat percent <.5 mm (70345)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspnd. sediment, sieve diametr percent <1 mm (70335)	Suspended sediment concentration mg/L (80154)
OCT				
01...	--	100	--	147
NOV				
28...	100	--	--	2,060
DEC				
15...	100	--	--	1,830
JAN				
07...	100	--	--	1,560
FEB				
20...	100	--	--	952
MAR				
11...	100	--	--	1,100
APR				
01...	100	--	--	1,560
MAY				
05...	100	--	--	1,070
JUN				
10...	--	--	100	128
JUL				
06...	--	--	--	339

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Mean stream depth, feet (00064)	Instantaneous discharge, cfs (00061)	Stream velocity, ft/s (00055)	Stream width, feet (00004)	Temperature, water, deg C (00010)	Bed sediment, dry svd sve dia percent <.063mm (80164)	Bed sediment, dry svd sve dia percent <.125mm (80165)	Bed sediment, dry svd sve dia percent <.25mm (80166)	Bed sediment, dry svd sve dia percent <.5 mm (80167)	Bed sediment, dry svd sve dia percent <1 mm (80168)	Bed sediment, dry svd sve dia percent <2 mm (80169)	Bed sediment, dry svd sve dia percent <4 mm (80170)
OCT													
01...	1410	.59	32	1.26	43.0	23.5	.0	2	34	95	99	100	--
NOV													
28...	1225	1.7	389	2.61	87.0	1.5	12	17	73	100	--	--	--
DEC													
15...	1204	2.0	409	2.12	94.0	4.0	.0	1	48	99	100	--	--
JAN													
07...	1350	1.9	356	2.08	91.0	1.0	.0	4	66	99	100	--	--
FEB													
20...	1210	1.6	298	1.99	92.0	9.0	.0	2	53	98	100	--	--
MAR													
11...	1325	1.7	327	2.07	92.0	11.0	.0	3	62	99	100	--	--
APR													
01...	1415	1.8	756	2.17	192	14.5	.0	.0	61	99	100	100	100
MAY													
05...	1320	2.1	358	1.82	93.0	22.0	1	10	62	100	--	--	--
JUN													
10...	0926	1.3	63	1.10	45.0	--	1	12	65	99	100	--	--
JUL													
06...	1405	1.0	58	1.31	43.0	28.0	.0	.0	2	52	99	100	--
AUG													
02...	1325	.83	75	1.60	56.5	28.5	.0	1	27	99	100	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Bed sediment, dry svd sve dia percent <8 mm (80171)
OCT	
01...	--
NOV	
28...	--
DEC	
15...	--
JAN	
07...	--
FEB	
20...	--
MAR	
11...	--
APR	
01...	100
MAY	
05...	--
JUN	
10...	--
JUL	
06...	--
AUG	
02...	--

08360500 ELEPHANT BUTTE RESERVOIR AT ELEPHANT BUTTE, NM

LOCATION.--Lat 33°09'15", long 107°ll'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, Colorado.

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. Prior to Sept. 1930, and Oct. 16, 1939, to May 2, 1940, nonrecording gages.

REMARKS.--Reservoir is formed by concrete dam. Storage began Jan. 6, 1915. Dam completed May 13, 1916. Capacity, 2,023,000 acre-ft, survey of 1999 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, 322,870 acre-ft, May 31, gage height, 4,324.34 ft; minimum contents, 94,610 acre-ft, Sept. 24, gage height, 4,294.04 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154,460	163,220	179,990	211,900	245,230	272,270	224,160	278,900	322,050	242,790	143,870	110,600
2	154,530	163,490	180,990	213,330	246,110	270,960	224,820	278,330	320,820	238,290	143,360	110,050
3	154,660	163,630	182,000	214,280	247,340	267,980	225,480	278,140	319,600	234,020	143,360	109,390
4	154,790	163,900	182,860	215,240	248,220	265,010	225,980	278,330	317,150	229,640	142,850	108,850
5	154,930	164,170	183,590	216,200	249,280	262,440	227,640	278,520	315,930	225,320	142,330	108,300
6	155,260	164,450	184,600	217,000	250,340	259,880	229,470	278,520	314,510	221,380	141,820	107,650
7	155,390	164,720	185,470	217,970	251,230	257,340	231,830	279,090	312,090	217,650	141,190	106,900
8	155,860	165,130	186,340	219,100	252,300	255,350	234,190	279,470	309,270	213,960	140,550	106,360
9	156,730	165,410	187,360	220,070	253,380	254,270	237,090	280,620	306,860	210,010	140,040	105,610
10	157,260	165,960	188,240	221,210	254,270	253,200	240,530	281,580	304,270	206,420	139,530	104,860
11	157,800	166,510	189,260	222,360	255,350	251,770	243,310	283,120	301,680	202,410	138,900	104,230
12	158,340	167,060	190,140	223,340	256,430	250,340	246,280	285,240	299,500	198,770	138,020	103,490
13	158,880	167,610	191,320	224,330	257,160	248,930	249,990	287,750	297,330	195,170	134,890	102,750
14	159,080	168,300	192,200	225,320	258,420	247,510	253,740	290,280	294,580	191,760	130,930	102,020
15	159,550	168,720	193,390	226,480	259,510	246,280	257,520	292,820	290,470	187,940	127,630	101,290
16	159,690	169,410	194,280	227,640	260,610	244,700	260,790	295,760	286,200	182,860	126,900	100,470
17	159,820	170,110	195,320	228,640	261,520	243,310	263,170	298,710	282,920	177,140	125,940	99,850
18	160,230	170,810	196,360	229,640	262,800	241,740	266,310	301,680	280,240	171,790	125,100	99,030
19	160,630	171,510	197,410	230,650	263,720	240,190	268,160	304,660	277,570	165,820	123,430	98,220
20	160,900	172,200	198,460	231,830	264,640	238,810	270,030	307,260	274,720	159,960	121,890	97,510
21	161,180	172,910	199,520	232,840	265,750	236,920	271,520	309,270	272,090	155,390	120,250	96,600
22	161,450	173,610	200,580	233,850	266,680	235,720	272,840	311,080	269,090	151,940	118,390	95,700
23	161,580	173,890	201,850	235,040	267,600	234,530	274,720	312,690	265,940	150,100	117,130	95,010
24	161,850	174,590	202,720	236,060	268,530	233,350	275,480	314,110	263,170	147,880	116,550	94,610
25	161,990	175,300	203,790	237,600	269,650	232,160	277,000	315,730	260,790	145,420	115,980	95,010
26	161,990	176,010	204,720	238,290	270,210	230,650	277,760	317,360	257,880	143,740	115,190	95,510
27	162,130	176,570	205,950	239,320	270,030	229,140	278,520	318,990	254,990	143,100	114,390	95,610
28	162,400	177,280	206,570	240,700	271,150	227,810	279,090	320,410	251,950	143,230	113,610	95,700
29	162,670	177,990	207,820	241,740	272,090	225,810	279,470	321,440	249,280	143,490	112,490	96,200
30	162,940	178,990	209,070	242,960	---	224,160	279,470	322,260	246,460	143,740	112,040	96,400
31	163,080	---	210,480	244,010	---	223,830	---	322,870	---	144,260	111,820	---
MAX	163,080	178,990	210,480	244,010	272,090	272,270	279,470	322,870	322,050	242,790	143,870	110,600
MIN	154,460	163,220	179,990	211,900	245,230	223,830	224,160	278,140	246,460	143,100	111,820	94,610
(+)	4,305.54	4,307.82	4,312.04	4,316.08	4,319.18	4,313.70	4,319.96	4,324.34	4,316.36	4,302.70	4,297.32	4,294.40
(++)	+8,750	+15,910	+31,490	+33,530	+28,080	-48,260	+55,640	+43,400	-76,410	-102,220	-32,440	-15,420

CAL YR 2003 MAX 405,310 MIN 147,950 (+) -133,620
WTR YR 2004 MAX 322,870 MIN 94,610 (+) -57,930

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

08361000 RIO GRANDE BELOW ELEPHANT BUTTE DAM, NM

LOCATION.--Lat 33°08'54", long 107°12'22", Sierra County, Hydrologic Unit 13030101, in Pedro Armendaris Grant, on left bank 1.0 mi downstream from dam, 1.5 mi upstream from Cuchillo Negro River, and at mile 1,382.2.

DRAINAGE AREA.--29,450 mi^2, approximately, including 2,940 mi^2 in closed basin in San Luis Valley, Colorado.

PERIOD OF RECORD.--January 1915 to current year. Monthly or annual discharge only for some periods, published in WSP 1732. Figures of daily discharge, published in WSP 458 for October to December 1916, are unreliable.

REVISED RECORDS.--WSP 1562: 1920. WSP 1632: drainage area. WSP 1732: 1917, 1920. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,241.09 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 24, 1980, at datum 1.0 ft higher. See WSP 1732 for history of changes prior to Apr. 24, 1942.

REMARKS.--Records good. Flow regulated by Elephant Butte Reservoir (station 08360500). Diversion for irrigation of about 800,000 acres upstream from station. No flow at times prior to 1929, Mar. 2-4, 1979.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	10	7.7	7.8	10	563	672	457	1,100	1,910	577	461
2	15	10	7.6	8.0	9.8	1,160	678	453	1,350	2,350	578	402
3	15	10	7.7	8.1	9.6	1,740	677	455	1,400	2,370	522	406
4	15	9.5	7.8	8.0	9.7	1,790	675	447	1,450	2,380	531	408
5	15	9.5	7.8	8.0	9.1	1,620	675	435	1,230	2,410	564	410
6	15	9.7	7.8	8.1	8.6	1,640	681	438	1,210	2,250	567	412
7	15	9.3	7.7	8.4	8.5	1,650	682	437	1,530	2,150	566	427
8	14	9.2	7.9	8.3	8.5	1,460	680	441	1,620	2,170	563	416
9	14	9.4	6.7	8.8	8.6	1,110	681	443	1,270	2,190	561	456
10	13	9.5	5.1	8.8	8.0	1,090	680	442	1,330	2,220	558	436
11	13	9.4	6.0	9.2	7.7	1,130	679	447	1,300	2,260	553	440
12	13	9.2	7.9	9.3	7.5	1,140	573	438	1,290	2,270	656	444
13	13	9.0	8.5	11	7.6	1,150	343	423	1,290	2,150	1,630	447
14	13	8.7	8.5	12	7.9	1,160	345	428	1,530	2,130	2,200	450
15	13	8.6	8.2	12	7.7	1,030	345	427	1,970	2,180	2,080	452
16	13	8.8	8.2	12	7.7	1,190	347	427	2,140	2,670	1,050	456
17	14	8.7	8.6	12	7.6	1,180	350	427	1,710	3,160	824	460
18	13	8.4	8.6	13	7.2	1,220	352	427	1,440	3,170	803	464
19	13	8.3	8.7	13	6.7	1,230	353	416	1,450	3,170	1,040	467
20	13	8.2	8.3	13	6.5	1,240	355	430	1,460	3,180	1,190	471
21	13	8.1	8.2	13	6.6	1,240	358	432	1,470	2,820	1,180	474
22	13	8.4	8.1	12	6.7	1,270	359	434	1,490	2,020	1,180	476
23	13	8.0	8.1	12	6.6	1,290	357	436	1,680	1,410	874	473
24	12	8.1	8.1	12	6.6	1,300	356	439	1,530	1,410	590	324
25	12	7.9	8.1	12	8.2	1,310	358	442	1,530	1,420	586	24
26	12	7.9	8.4	11	278	1,330	353	484	1,530	1,440	584	21
27	12	7.6	8.3	11	754	1,340	347	451	1,540	848	580	20
28	11	7.9	8.3	11	13	1,370	271	455	1,540	570	577	19
29	11	8.0	8.2	11	12	1,390	456	462	1,550	570	573	19
30	11	7.9	8.0	11	---	1,370	453	465	1,550	572	569	18
31	10	---	7.9	10	---	878	---	468	---	544	564	---
TOTAL	406	263.2	245.0	324.8	1,256.2	39,581	14,491	13,706	44,480	62,364	25,470	10,653
MEAN	13.1	8.77	7.90	10.5	43.3	1,277	483	442	1,483	2,012	822	355
MAX	15	10	8.7	13	754	1,790	682	484	2,140	3,180	2,200	476
MIN	10	7.6	5.1	7.8	6.5	563	271	416	1,100	544	522	18
AC-FT	805	522	486	644	2,490	78,510	28,740	27,190	88,230	123,700	50,520	21,130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 2004, BY WATER YEAR (WY)

MEAN	334	247	294	321	742	1,193	1,509	1,580	1,821	1,733	1,402	792
MAX	2,040	2,662	2,110	1,944	3,026	2,297	2,717	7,601	6,098	4,032	2,623	2,169
(WY)	(1987)	(1942)	(1987)	(1987)	(1986)	(1989)	(1942)	(1942)	(1942)	(1995)	(1924)	(1939)
MIN	2.41	1.25	1.38	0.00	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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1917 - 2004	
ANNUAL TOTAL	182,093.1		213,240.2			
ANNUAL MEAN	499		583		998	
HIGHEST ANNUAL MEAN					2,665	1942
LOWEST ANNUAL MEAN					253	1964
HIGHEST DAILY MEAN	1,620	Jul 1	3,180	Jul 20	8,220	May 22, 1942
LOWEST DAILY MEAN	2.5	Jan 1	5.1	Dec 10	0.00	Nov 2, 1916
ANNUAL SEVEN-DAY MINIMUM	4.0	Jan 14	6.7	Feb 18	0.00	Nov 2, 1916
ANNUAL RUNOFF (AC-FT)	361,200		423,000		723,100	
10 PERCENT EXCEEDS	1,340		1,550		2,090	
50 PERCENT EXCEEDS	422		427		1,000	
90 PERCENT EXCEEDS	7.7		8.0		5.8	

08362000 CABALLO RESERVOIR NEAR ARREY, NM

LOCATION.--Lat 32°53'47", long 107°17'30", in SE ¼ SW ¼ 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, Colorado.

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 1999 survey, 326,700 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, 75,510 acre-ft, July 23, gage height, 4,151.66 ft; minimum contents, 5,450 acre-ft, Oct. 1, gage height, 4,127.64 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,450	7,470	9,410	11,250	13,360	16,550	47,600	56,510	59,330	48,840	65,290	34,000
2	5,500	7,520	9,470	11,320	13,360	17,600	46,680	57,120	58,710	51,630	64,160	32,450
3	5,650	7,550	9,500	11,350	13,400	20,490	45,400	57,730	56,770	53,030	62,890	30,670
4	5,670	7,610	9,600	11,490	13,430	24,230	44,880	58,530	56,600	55,140	61,640	28,970
5	5,750	7,670	9,650	11,560	13,470	28,330	44,370	59,240	55,820	57,210	60,680	27,390
6	5,800	7,730	9,700	11,590	13,540	32,860	44,520	60,140	55,050	58,970	59,690	25,820
7	5,980	7,790	9,730	11,630	13,580	37,910	44,520	60,870	54,370	60,230	57,560	24,350
8	6,000	7,870	9,920	11,730	13,690	41,050	44,590	61,410	54,040	61,600	55,730	22,960
9	6,050	7,900	9,920	11,760	13,730	42,850	44,740	62,150	53,120	61,600	54,120	21,610
10	6,160	7,990	9,950	11,800	13,730	45,180	45,330	62,800	52,210	61,600	52,490	20,620
11	6,260	8,050	9,990	11,870	13,800	47,600	45,920	63,360	51,550	61,600	49,940	19,610
12	6,290	8,200	10,080	11,970	13,870	49,550	47,600	63,920	50,900	61,690	47,900	18,550
13	6,390	8,290	10,120	12,040	13,910	49,940	47,900	64,680	50,180	61,780	46,000	17,680
14	6,390	8,410	10,150	12,150	13,950	50,100	48,290	65,250	49,780	61,780	47,140	16,950
15	6,470	8,470	10,180	12,250	13,980	50,420	48,520	65,820	49,780	61,780	49,980	16,350
16	6,550	8,530	10,280	12,320	14,020	50,020	48,760	66,400	50,420	61,870	51,430	15,730
17	6,610	8,630	10,350	12,430	14,060	49,550	48,840	66,980	50,740	63,830	51,720	15,340
18	6,660	8,720	10,380	12,430	14,090	48,990	49,150	67,950	50,260	65,920	51,390	15,260
19	6,710	8,750	10,450	12,500	14,170	47,600	49,630	68,730	49,700	68,440	50,580	15,230
20	6,800	8,810	10,510	12,570	14,210	47,600	50,260	69,330	49,390	71,320	50,340	15,150
21	6,850	8,840	10,580	12,680	14,240	47,290	50,660	69,620	48,840	73,660	50,340	15,260
22	6,910	8,940	10,710	12,750	14,320	47,210	51,070	68,540	48,060	75,200	50,340	15,460
23	6,960	8,970	10,710	12,780	14,360	47,360	51,880	68,050	47,670	75,510	50,340	15,650
24	7,040	9,000	10,780	12,850	14,540	47,440	52,290	67,460	47,290	74,890	48,680	16,000
25	7,100	9,060	10,840	12,960	14,540	47,360	52,870	66,880	46,910	74,370	46,750	16,550
26	7,160	9,120	10,910	12,960	14,580	47,670	53,200	66,400	47,060	73,860	44,660	16,430
27	7,180	9,190	10,980	13,000	15,570	48,370	53,870	65,720	47,140	72,130	42,780	16,160
28	7,270	9,220	11,050	13,030	16,280	49,150	54,370	64,580	47,140	70,470	40,600	15,880
29	7,270	9,250	11,050	13,110	16,390	49,310	54,880	63,360	47,830	68,730	38,840	16,080
30	7,330	9,340	11,110	13,140	---	49,550	56,080	62,150	48,290	66,930	37,260	16,470
31	7,410	---	11,180	13,180	---	49,070	---	60,780	---	66,110	35,790	---
MAX	7,410	9,340	11,180	13,180	16,390	50,420	56,080	69,620	59,330	75,510	65,290	34,000
MIN	5,450	7,470	9,410	11,250	13,360	16,550	44,370	56,510	46,910	48,840	35,790	15,150
(+)	4,129.12	4,130.12	4,131.52	4,132.66	4,134.36	4,145.88	4,147.58	4,148.64	4,145.68	4,149.78	4,142.12	4,134.40
(++)	+2,030	+1,930	+1,840	+2,000	+3,210	+32,680	+7,010	+4,700	-12,490	+17,820	-30,320	-19,320

CAL YR 2003 MAX 67,660 MIN 4,430 (++) -26,270
WTR YR 2004 MAX 75,510 MIN 5,450 (++) +11,090

(+) Elevation, 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 ¼ SW ¼ 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, Colorado.

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 telemetry at station.

COOPERATION.--Records provided by Bureau of Reclamation.

AVERAGE DISCHARGE.--65 years, 935 ft^3/s, 677,400 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, 2,060 ft^3/s, July 10, 11; minimum daily, 1.0 ft^3/s, Nov. 10 to Dec. 16, Jan. 24 to Feb. 22.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	2.5	1.0	2.3	1.0	1.1	1,420	3.0	1,380	1,260	1,320	1,340
2	1.5	2.5	1.0	2.3	1.0	1.1	1,270	3.0	1,730	1,200	1,190	1,140
3	1.5	2.5	1.0	2.3	1.0	1.1	1,200	3.0	1,830	1,140	1,070	1,190
4	1.7	2.5	1.0	2.3	1.0	1.1	1,120	3.0	1,540	1,130	1,110	1,290
5	2.0	2.1	1.0	2.3	1.0	1.1	845	3.0	1,470	1,130	1,090	1,190
6	2.0	1.7	1.0	2.3	1.0	1.1	687	3.0	1,470	1,240	1,230	1,130
7	2.0	1.7	1.0	2.3	1.0	1.1	685	3.0	1,530	1,270	1,380	1,060
8	2.0	1.7	1.0	2.3	1.0	1.1	682	3.0	1,620	1,520	1,370	1,020
9	2.0	1.4	1.0	2.3	1.0	1.1	684	3.0	1,690	1,910	1,370	1,020
10	1.3	1.0	1.0	2.3	1.0	1.1	523	3.0	1,650	2,060	1,480	1,010
11	2.5	1.0	1.0	2.3	1.0	1.1	272	3.0	1,510	2,060	1,730	976
12	2.5	1.0	1.0	2.3	1.0	562	254	3.0	1,510	1,960	1,930	973
13	2.5	1.0	1.0	2.3	1.0	1,010	230	3.0	1,490	1,870	1,810	923
14	2.5	1.0	1.0	2.3	1.0	1,000	151	3.0	1,510	1,950	1,320	828
15	2.5	1.0	1.0	2.3	1.0	1,310	148	3.0	1,640	2,020	1,170	766
16	2.5	1.0	1.0	2.3	1.0	1,500	151	3.0	1,740	1,860	939	766
17	2.5	1.0	1.3	2.0	1.0	1,540	155	3.0	1,740	1,740	852	695
18	2.5	1.0	1.6	1.6	1.0	1,580	159	3.0	1,680	1,750	1,100	494
19	2.5	1.0	1.6	1.6	1.0	1,470	58	3.0	1,620	1,760	1,140	466
20	2.5	1.0	1.6	1.6	1.0	1,380	3.0	3.0	1,620	1,640	1,090	424
21	2.5	1.0	1.6	1.6	1.0	1,380	3.0	294	1,690	1,560	1,090	342
22	2.5	1.0	1.6	1.6	1.0	1,330	3.0	564	1,750	1,520	1,030	343
23	2.5	1.0	1.6	1.3	1.1	1,230	3.0	564	1,760	1,460	1,160	346
24	2.5	1.0	2.0	1.0	1.1	1,300	3.0	564	1,710	1,580	1,390	462
25	2.5	1.0	2.3	1.0	1.1	1,360	3.0	564	1,570	1,660	1,530	290
26	2.5	1.0	2.3	1.0	1.1	1,160	3.0	622	1,420	1,540	1,470	230
27	2.5	1.0	2.3	1.0	1.1	991	3.0	656	1,390	1,380	1,500	236
28	2.5	1.0	2.3	1.0	1.1	979	3.0	838	1,490	1,330	1,490	126
29	2.5	1.0	2.3	1.0	1.1	1,080	3.0	1,020	1,450	1,320	1,490	5.8
30	2.5	1.0	2.3	1.0	---	1,260	3.0	1,020	1,260	1,330	1,440	3.7
31	2.5	---	2.3	1.0	---	1,420	---	1,020	---	1,330	1,380	---
TOTAL	70.0	39.6	45.0	56.1	29.7	24,854.1	10,727.0	7,786.0	47,460	48,480	40,661	21,085.5
MEAN	2.26	1.32	1.45	1.81	1.02	802	358	251	1,582	1,564	1,312	703
MAX	2.5	2.5	2.3	2.3	1.1	1,580	1,420	1,020	1,830	2,060	1,930	1,340
MIN	1.3	1.0	1.0	1.0	1.0	1.1	3.0	3.0	1,260	1,130	852	3.7
AC-FT	139	79	89	111	59	49,300	21,280	15,440	94,140	96,160	80,650	41,820
(+)	88.8	0	0	0	0	124.9	91.2	190.4	189.6	94.6	88.2	91.0

CAL YR	2003	TOTAL 183,692.5	MEAN 503	MAX 1880	MIN 1.0	AC-FT 364400		
WTR YR	2004	TOTAL 201,294.0	MEAN 550	MAX 2060	MIN 1.0	AC-FT 399300		

(+)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—Continued

(National Water-Quality Assessment Program Station)

WATER-QUALITY RECORDS

LOCATION.--Lat 31°48'10", long 106°32'25", El Paso County, Hydrologic Unit 13030102, 0.1 mi upstream from Courchesne Bridge at El Paso, 1.8 mi upstream from American Dam, 5.7 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, Colorado.

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 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	Turbidity, NTU (00076)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
OCT													
07...	0840	9.5	--	--	665	3.6	47	7.8	3,410	22.0	20.5	--	--
NOV													
13...	0900	15	--	15	672	8.6	92	8.1	4,690	13.0	12.0	610	183
DEC													
04...	0910	13	--	13	667	8.1	79	8.1	4,310	6.5	8.0	630	177
JAN													
08...	0910	8.5	--	8.5	672	7.7	75	8.2	4,370	9.5	8.0	610	179
FEB													
12...	0850	8.8	--	2.9	667	9.0	86	8.0	4,580	5.0	7.0	650	187
25...	1630	9.8	9.2	--	668	17.5	208	8.8	4,270	21.0	16.5	550	159
APR													
06...	1040	434	--	36	665	8.6	96	8.4	1,090	18.5	14.0	230	64.6
MAY													
12...	0900	9.9	--	21	663	5.1	63	8.3	4,180	23.5	18.0	550	156
JUN													
16...	0830	554	--	70	664	6.8	92	8.3	1,100	29.5	23.0	250	69.6
JUL													
15...	0900	650	110	--	670	6.2	88	8.4	989	27.0	26.5	210	59.5
AUG													
04...	1000	816	--	--	670	6.5	95	8.4	922	31.0	28.0	210	59.6
SEP													
07...	1420	872	--	--	--	--	--	--	950	30.0	23.5	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)
OCT													
07...	--	--	--	--	273	332	--	--	556	--	--	650	--
NOV													
13...	36.8	14.1	14	800	306	367	--	--	799	1.3	51.7	966	3,050
DEC													
04...	44.6	12.4	12	699	214	258	--	--	741	1.1	42.5	859	2,720
JAN													
08...	39.5	11.9	13	754	311	369	--	--	754	1.2	43.8	899	2,870
FEB													
12...	45.0	13.4	14	805	315	379	--	--	813	1.1	42.6	934	3,040
25...	37.6	14.0	12	670	260	290	13	.79	737	1.3	36.4	874	2,690
APR													
06...	17.8	8.34	4	151	154	181	3	--	129	.8	13.8	192	672
MAY													
12...	39.8	13.2	13	702	297	348	3	--	716	1.1	38.2	753	2,600
JUN													
16...	17.8	9.25	4	139	172	204	--	--	122	.9	16.4	189	
JUL													
15...	15.2	8.20	4	123	157	186	2	--	99.2	.7	17.5	176	595
AUG													
04...	14.0	7.31	3	103	158	186	3	--	90.3	.7	17.4	160	548
SEP													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--

08364000 RIO GRANDE AT EL PASO, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, fltrd, mg/L (00666)	Phos-phorus, water, unfltrd mg/L (00665)	Total nitro-gen, wat unf by anal ysis, mg/L (62855)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli-form, M-FC 0.7u MF col/ 100 mL (31625)
OCT													
07...	--	--	--	2.82	--	.10	<.008	.783	--	1.00	3.97	--	--
NOV													
13...	--	--	--	4.72	--	.45	.073	2.13	--	2.33	6.64	2,800	3,200
DEC													
04...	--	--	--	2.13	2.60	.91	.610	1.59	--	2.02	3.94	E5,300	870
JAN													
08...	--	1.3	1.7	.86	.88	.65	.170	1.50	1.60	1.70	--	E400	450
FEB													
12...	--	2.0	2.1	1.30	1.40	.39	.150	1.20	1.30	1.40	--	930	700
25...	2,850	--	1.3	.19	--	.98	.282	1.09	1.25	1.42	--	--	--
APR													
06...	--	--	--	.12	.19	.49	E.004	.098	--	.34	1.43	E200	7,900
MAY													
12...	--	--	--	.71	.85	.56	.253	1.61	--	1.70	2.12	3,100	>6,000
JUN													
16...	--	.20	1.4	<.04	.03	E.03	E.007	.045	.06	.42	1.29	E260	140
JUL													
15...	--	<.20	.90	<.04	.03	.18	<.008	.054	.05	.28	.93	E1,000	E100
AUG													
04...	--	.22	.79	--	E.050	--	--	.075	.087	--	.98	E190	670
SEP													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Alum-inum, water, fltrd, ug/L (01106)	Anti-mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryll-ium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chrom-ium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan-ese, water, fltrd, ug/L (01056)
OCT													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
13...	4	<.40	14	64	<.12	808	E.07	E.6	.580	3.5	28	.19	593
DEC													
04...	E2	<.40	16	58	<.12	731	E.04	<.8	.430	3.2	E18	E.11	789
JAN													
08...	3	.21	13	61	<.06	718	.06	E.5	.590	3.1	22	E.08	789
FEB													
12...	E3	<.40	2	66	<.12	769	E.05	<.8	.500	4.0	27	E.15	793
25...	--	--	--	--	--	765	--	--	--	--	--	--	--
APR													
06...	2	.33	4	67	<.06	203	.05	<.8	.394	2.6	<6	<.08	11.3
MAY													
12...	E3	<.40	12	61	<.12	837	E.04	<.8	.570	4.7	E11	E.09	721
JUN													
16...	2	.40	6	81	<.06	218	.04	<.8	.477	2.2	<6	<.08	.3
JUL													
15...	3	.38	6	74	<.06	190	E.04	<.8	.353	2.2	<6	<.08	.3
AUG													
04...	3	.35	6	73	<.06	181	E.04	<.8	.379	1.9	<6	<.08	.3
SEP													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--

08364000 RIO GRANDE AT EL PASO, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Mercury water, unfltrd recover-able, ug/L (71900)	Molyb-denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen-ium, water, fltrd, ug/L (01145)	Selen-ium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Ra-226, water, fltrd, radon method pCi/L (09511)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)
OCT											
07...	--	--	--	--	--	--	--	--	--	--	25
NOV											
13...	<.02	26.0	2.22	<3	<3	<.4	4.7	.15	8.60	--	56
DEC											
04...	<.02	23.0	2.47	<3	<3	<.4	5.6	.34	6.59	--	19
JAN											
08...	<.02	26.7	3.74	<3	E2	<.2	7.8	.25	5.96	--	16
FEB											
12...	<.02	24.4	2.07	<3	<3	1.0	5.3	.11	7.53	--	22
25...	--	--	--	--	--	--	--	--	--	--	--
APR											
06...	<.02	9.8	3.00	<3	<3	<.2	1.9	.12	3.96	83	236
MAY											
12...	<.02	22.1	.27	<3	<3	<.4	6.9	.11	5.04	86	34
JUN											
16...	E.01	10.3	.30	<3	<3	<.2	1.0	.07	4.57	78	381
JUL											
15...	<.02	9.0	1.93	<3	<3	<.2	.9	.07	3.74	71	287
AUG											
04...	<.02	8.1	2.48	<3	<3	<.2	.6	.21	3.69	31	1,040
SEP											
07...	--	--	--	--	--	--	--	--	--	--	--

Remark codes used in this table:
< -- Less than
> -- Greater than
E -- Estimated value

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	2,6-Di-ethyl-aniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl, water, fltrd 0.7u GF ug/L (82686)	Ben-flur-alin, water, fltrd 0.7u GF ug/L (82673)	Butyl-ate, water, fltrd, ug/L (04028)	Car-baryl, water, fltrd 0.7u GF ug/L (82680)	Carbo-furan, water, fltrd 0.7u GF ug/L (82674)	cis-Per-methrin water fltrd 0.7u GF ug/L (82687)
OCT													
07...	0840	<.006	<.006	<.006	<.004	<.005	<.007	<.050	<.010	<.002	<.041	<.020	<.006
NOV													
13...	0900	<.006	<.006	<.006	<.005	<.005	<.007	<.050	<.010	<.004	<.041	<.020	<.006
DEC													
04...	0910	<.006	<.006	<.006	<.005	<.005	<.007	<.050	<.010	<.004	<.041	<.020	<.006
JAN													
08...	0910	<.006	E.005	<.006	<.005	<.005	.145	<.050	<.010	<.004	<.041	<.020	<.006
FEB													
12...	0850	<.006	<.006	<.006	<.005	<.005	.077	<.050	<.010	<.004	E.005	<.020	<.006
APR													
06...	1040	<.006	<.006	<.006	<.005	<.005	<.007	<.050	<.010	<.004	<.041	<.020	<.006
MAY													
12...	0900	<.006	<.006	<.006	<.005	<.005	<.007	<.050	<.010	<.004	<.041	<.020	<.006
JUN													
16...	0830	<.006	<.006	<.006	<.005	<.005	<.007	<.050	<.010	<.004	<.041	<.020	<.006
JUL													
15...	0900	<.006	<.006	<.006	<.005	<.005	<.007	<.050	<.010	<.004	<.041	<.020	<.006
AUG													
04...	1000	<.006	<.006	<.006	<.005	<.005	<.007	<.050	<.010	<.004	<.041	<.020	<.006

08364000 RIO GRANDE AT EL PASO, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Cyanazine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon, water, fltrd, ug/L (39572)	Dieldrin, water, fltrd, ug/L (39381)	Disulfoton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethalfluralin, water, fltrd 0.7u GF ug/L (82663)	Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Desulfinyl fipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)
OCT													
07...	<.018	<.003	<.004	E.004	<.005	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007
NOV													
13...	<.018	<.003	<.012	.008	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016
DEC													
04...	<.018	<.003	<.012	E.004	<.009	<.02	E.002	<.009	<.005	<.029	<.013	<.024	<.016
JAN													
08...	<.018	<.003	<.012	<.010	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016
FEB													
12...	<.018	<.003	<.012	<.005	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016
APR													
06...	<.018	.004	<.012	<.005	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016
MAY													
12...	<.018	<.003	<.012	<.010	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016
JUN													
16...	<.018	<.003	<.012	<.005	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016
JUL													
15...	<.018	<.003	<.012	<.005	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016
AUG													
04...	<.018	<.003	<.012	<.005	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Fonofos water, fltrd, ug/L (04095)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Napropamide, water, fltrd 0.7u GF ug/L (82684)	p,p'-DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)	Pebulate, water, fltrd 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)
OCT													
07...	<.003	<.004	<.035	<.027	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022
NOV													
13...	<.003	<.004	<.035	E.011	<.015	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022
DEC													
04...	<.003	<.004	<.035	<.027	<.015	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022
JAN													
08...	<.003	<.004	<.035	<.027	<.015	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022
FEB													
12...	<.003	<.004	<.035	<.027	<.015	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022
APR													
06...	<.003	<.004	<.035	<.027	<.015	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022
MAY													
12...	<.003	<.004	<.035	<.027	<.015	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022
JUN													
16...	<.003	<.004	<.035	<.027	<.015	E.004	<.006	<.005	<.007	<.003	<.010	<.004	<.022
JUL													
15...	<.003	<.004	<.035	<.027	<.015	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022
AUG													
04...	<.003	<.004	<.035	<.027	<.015	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Phorate water fltrd 0.7u GF ug/L (82664)	Prometon, water, fltrd, ug/L (04037)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Simazine, water, fltrd, ug/L (04035)	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Terbacil, water, fltrd 0.7u GF ug/L (82665)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Thiobencarb water fltrd 0.7u GF ug/L (82681)	Triallate, water, fltrd 0.7u GF ug/L (82678)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)
OCT													
07...	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
NOV													
13...	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	<.009
DEC													
04...	<.011	E.02	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	<.009
JAN													
08...	<.011	.03	<.004	<.025	<.011	<.02	<.005	<.02	<.050	<.02	<.010	<.002	<.009
FEB													
12...	<.011	.02	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	<.009
APR													
06...	<.011	.01	<.004	<.025	<.011	<.02	<.005	E.01	<.034	<.02	<.010	<.002	<.009
MAY													
12...	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	<.009
JUN													
16...	<.011	.01	<.004	<.025	<.011	<.02	<.005	E.01	<.034	<.02	<.010	<.002	<.009
JUL													
15...	<.011	.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	<.009
AUG													
04...	<.011	E.01	<.004	<.025	<.011	<.27	<.005	<.02	<.034	<.02	<.010	<.002	<.009

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

08364000 RIO GRANDE AT EL PASO, TX—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Calcium bed sed <62.5um wet svd field, total, percent (34830)	Magnes-ium, bed sed <62.5um wet svd fld,tot percent (34900)	Potas-sium, bed sed <62.5um wet svd fld,tot percent (34940)	Sodium, bed sed <62.5um wet svd field, total, percent (34960)	Sulfur, bed sed <62.5um wet svd field, total, percent (34970)	Phos-phorus, bed sed <62.5um wet svd fld,tot percent (34935)	Total carbon, sedimnt <62.5um wsv nat field percent (49267)	Inorg. carbon, bed sed <62.5um wsv nat field percent (49269)	Organic carbon, bed sed <62.5um wsv nat field percent (49266)	Alum-inum, bed sed <62.5um wet svd fld,tot percent (34790)	Anti-mony, bed sed <62.5um wet svd fld,tot ug/g (34795)	Arsenic bed sed <62.5um wet svd field, total, ug/g (34800)
JUN													
16...	0830	3.0	.620	1.8	1.2	.05	.047	1.2	.65	.51	4.6	.4	2.5
SEP													
07...	1420	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Barium, bed sed <62.5um wet svd field, total, ug/g (34805)	Beryll-ium, bed sed <62.5um wet svd fld,tot ug/g (34810)	Bismuth bed sed <177um wet svd field, total, ug/g (34816)	Cadmium bed sed <62.5um wet svd field, total, ug/g (34825)	Cerium, bed sed <62.5um wet svd field, total, ug/g (34835)	Chrom-ium, bed sed <62.5um wet svd fld,tot ug/g (34840)	Cobalt, bed sed <62.5um wet svd field, total, ug/g (34845)	Copper, bed sed <62.5um wet svd field, total, ug/g (34850)	Europ-ium, bed sed <62.5um wet svd fld,tot ug/g (34855)	Gallium bed sed <62.5um wet svd field, total, ug/g (34860)	Gold, bed sed <62.5um wet svd field, total, ug/g (34870)	Holmium bed sed <62.5um wet svd field, total, ug/g (34875)	Iron, bed sed <62.5um wet svd field, total, percent (34880)
JUN													
16...	640	1.4	<1	.2	50	33	7	16	1	10	<1	<1	1.8
SEP													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Lantha-num, bed sed <62.5um wet svd fld,tot ug/g (34885)	Lead, bed sed <62.5um wet svd field, total, ug/g (34890)	Lithium bed sed <62.5um wet svd field, total, ug/g (34895)	Mangan-ese, bed sed <62.5um wet svd fld,tot ug/g (34905)	Mercury bed sed <62.5um wet svd field, total, ug/g (34910)	Molyb-denum, bed sed <62.5um wet svd fld,tot ug/g (34915)	Neodym-ium, bed sed <62.5um wet svd fld,tot ug/g (34920)	Nickel, bed sed <62.5um wet svd field, total, ug/g (34925)	Niobium bed sed <62.5um wet svd field, total, ug/g (34930)	Scand-ium, bed sed <62.5um wet svd fld,tot ug/g (34945)	Selen-ium, bed sed <62.5um wet svd fld,tot ug/g (34950)	Silver, bed sed <62.5um wet svd field, total, ug/g (34955)	Stront-ium, bed sed <62.5um wet svd fld,tot ug/g (34965)
JUN													
16...	27	15	21	450	.02	<.5	24	12	4	5	<.1	.2	340
SEP													
07...	--	--	--	--	<.02	--	--	--	--	--	<.1	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Tant-alum, bed sed <62.5um wet svd fld,tot ug/g (34975)	Thall-ium, bed sed <62.5um dry svd total, ug/g (04064)	Thorium bed sed <62.5um wet svd field, total, ug/g (34980)	Tin, bed sed <62.5um wet svd field, total, ug/g (34985)	Titan-ium, bed sed <62.5um wsv nat rec, percent (49274)	Vanad-ium, bed sed <62.5um wet svd fld,tot ug/g (35005)	Ytterb-ium, bed sed <62.5um wet svd fld,tot ug/g (35015)	Yttrium bed sed <62.5um wet svd field, total, ug/g (35010)	Zinc, bed sed <62.5um wet svd field, total, ug/g (35020)	Uranium bed sed <62.5um wet svd field, total, ug/g (35000)
JUN										
16...	<1	<1	5	2	.240	49	2	15	48	1.9
SEP										
07...	--	--	--	--	--	--	--	--	--	--

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

08377900 RIO MORA NEAR TERRERO, NM

LOCATION.--Lat 35°46'38", long 105°39'27", in SW ¼ NE ¼ sec.22, T.18 N., R.12 E., San Miguel County, Hydrologic Unit 13060001, in Santa Fe National Forest, on left bank 450 ft upstream from bridge on State Highway 63, 600 ft upstream from mouth, and 2.6 mi north of Terrero.

DRAINAGE AREA.--53.2 mi^2.

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

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 7,890 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for those estimated, which are poor. About 90 percent of the drainage is in the Pecos Wilderness Area and not subject to development, watershed management, or the building of highways; there is limited cattle grazing by permit.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	e10	8.3	e4.6	e4.0	e4.3	36	82	83	20	28	17
2	7.5	e11	5.9	e4.7	e3.9	e4.0	42	77	79	18	25	16
3	8.7	e11	4.2	e4.5	e4.0	e4.1	36	86	75	16	24	14
4	14	e10	3.9	e4.2	e3.7	e4.3	34	108	73	15	26	15
5	12	e10	4.1	e3.5	e3.8	e3.6	42	115	71	15	29	18
6	9.3	e7.9	5.4	e3.5	e3.8	e4.3	47	127	68	14	25	15
7	9.3	6.7	5.4	e4.2	e4.2	e4.0	46	134	65	13	22	14
8	14	5.7	5.2	e4.7	e4.7	e4.7	54	164	62	12	20	13
9	e11	4.9	4.4	e4.2	e3.9	e4.6	53	198	59	12	20	13
10	e6.4	5.2	6.1	e4.1	e3.9	e4.6	48	218	55	12	19	12
11	e9.0	5.5	9.0	e4.5	e3.7	e3.8	41	214	52	14	18	11
12	e8.8	5.2	6.9	e4.7	e3.2	e3.7	36	242	48	12	18	11
13	e6.6	3.5	e5.4	e4.0	e3.2	e4.4	37	223	44	11	19	11
14	e5.1	8.0	e5.3	e4.0	e3.7	e4.3	50	184	42	9.1	18	10
15	e7.3	7.2	e4.7	e4.2	e4.4	e4.4	63	174	39	8.0	19	9.8
16	e6.2	5.8	e3.8	e4.2	e4.5	e4.1	77	184	36	7.7	20	9.5
17	e5.1	7.4	e4.5	e4.3	e4.5	e4.6	83	189	33	7.3	17	9.1
18	e5.1	5.4	e4.0	e3.9	e4.8	e4.6	90	184	31	7.8	16	9.2
19	e5.0	6.1	e4.1	e4.0	e4.4	e4.9	88	197	28	8.2	18	35
20	e4.4	6.1	e4.7	e4.1	e4.2	e5.0	82	212	27	17	20	51
21	e4.0	6.6	e4.7	e3.6	e4.2	e4.2	80	211	25	11	19	37
22	e4.2	6.0	e4.2	e3.3	e4.0	e15	76	202	24	18	18	32
23	e4.2	3.3	e3.9	e4.0	e3.9	36	71	175	25	29	17	29
24	e4.9	11	e4.0	e4.6	e3.6	40	64	152	23	33	16	26
25	e6.0	24	e4.6	e4.5	e3.3	43	61	136	22	53	15	25
26	e5.5	17	e4.6	e3.0	e3.9	44	60	118	22	50	15	29
27	e8.6	8.9	e3.5	e3.5	e4.4	47	70	110	21	46	14	26
28	e10	10	e3.4	e3.9	e4.3	38	86	104	23	39	14	26
29	e9.2	14	e3.9	e4.4	e3.7	33	90	102	24	38	14	24
30	e8.6	17	e4.2	e4.4	---	31	94	97	30	33	14	23
31	e9.4	---	e4.3	e4.4	---	33	---	89	---	30	16	---
TOTAL	237.0	260.4	150.6	127.7	115.8	450.5	1,837	4,808	1,309	629.1	593	590.6
MEAN	7.65	8.68	4.86	4.12	3.99	14.5	61.2	155	43.6	20.3	19.1	19.7
MAX	14	24	9.0	4.7	4.8	47	94	242	83	53	29	51
MIN	4.0	3.3	3.4	3.0	3.2	3.6	34	77	21	7.3	14	9.1
AC-FT	470	517	299	253	230	894	3,640	9,540	2,600	1,250	1,180	1,170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	13.9	10.5	6.92	5.93	6.33	12.3	36.9	127	82.6	28.6	42.4	25.9
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	2.55	1.72	1.77	3.40	11.2	10.0	4.73	8.43	8.62	6.93
(WY)	(1965)	(1990)	(2002)	(1964)	(2002)	(1964)	(1971)	(2002)	(2002)	(1989)	(2002)	(1978)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	7,026.1		11,108.7			
ANNUAL MEAN	19.2		30.4		33.4	
HIGHEST ANNUAL MEAN					65.3	1973
LOWEST ANNUAL MEAN					7.37	2002
HIGHEST DAILY MEAN	109	May 18	242	May 12	755	Jun 8, 1997
LOWEST DAILY MEAN	3.1	Feb 10	3.0	Jan 26	0.90	Jan 12, 1964
ANNUAL SEVEN-DAY MINIMUM	4.0	Feb 6	3.7	Feb 9	0.97	Jan 10, 1964
MAXIMUM PEAK FLOW			265	May 11	937	May 22, 1991
MAXIMUM PEAK STAGE			2.91	May 11	4.15	Jun 8, 1979
INSTANTANEOUS LOW FLOW			1.7	Nov 23	0.90	Jan 12, 1964
ANNUAL RUNOFF (AC-FT)	13,940		22,030		24,210	
10 PERCENT EXCEEDS	65		82		81	
50 PERCENT EXCEEDS	9.3		12		13	
90 PERCENT EXCEEDS	4.6		4.0		5.0	

e Estimated

08378500 PECOS RIVER NEAR PECOS, NM

LOCATION.--Lat 35°42'30", long 105°40'55", in NE ¼ NE ¼ 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 telemetry. 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 fair except for those estimated, which are poor. Diversions for irrigation of about 75 acres, 1959 determinations, upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 29, 1904, was greatest since 1886, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	28	e27	e17	e13	e24	77	174	156	67	60	38
2	26	29	e32	e16	e15	e28	93	160	145	62	57	35
3	29	28	e29	e17	e16	e36	89	189	139	60	57	32
4	43	29	e27	e15	e15	e32	80	269	135	57	57	34
5	37	22	e24	e13	e14	e35	84	316	129	56	62	40
6	31	e18	e29	e14	e16	e30	96	357	122	54	57	33
7	30	e20	e31	e18	e17	e38	93	382	116	54	53	31
8	44	e24	e24	e16	e18	e45	127	433	110	52	51	31
9	34	e24	e26	e17	e20	e40	123	465	105	51	51	30
10	30	e23	e27	e14	e20	e36	108	492	99	51	49	29
11	34	e26	e21	e16	e17	e32	89	498	94	52	49	28
12	31	e20	e19	e14	e14	e40	80	550	89	51	47	28
13	29	e16	e23	e17	e12	e44	77	497	85	50	49	27
14	28	e22	e22	e15	e15	e47	95	415	81	48	52	26
15	27	e30	e20	e14	e20	e48	129	395	78	47	54	25
16	27	e38	e17	e12	e19	49	159	403	75	47	54	25
17	26	e35	e21	e15	e21	49	184	409	73	45	46	24
18	26	e31	e25	e16	e25	53	209	399	70	46	44	24
19	25	e34	e24	e12	e22	61	204	417	69	47	45	96
20	25	e37	e23	e14	e19	68	181	445	68	55	50	107
21	25	e30	e21	e16	e21	74	166	448	66	50	46	60
22	24	e23	e20	e13	e23	78	156	428	66	57	47	47
23	24	e18	e20	e12	e25	76	142	377	69	67	42	42
24	24	e21	e21	e13	e20	86	123	337	67	74	39	39
25	24	e24	e22	e16	e23	94	112	304	67	93	38	37
26	22	e28	e23	e11	e22	95	107	262	65	84	37	41
27	25	e25	e17	e13	e26	103	131	242	64	79	36	40
28	27	e22	e14	e14	e23	81	175	219	67	71	35	38
29	26	e26	e12	e15	e19	71	188	212	71	70	34	38
30	25	e29	e17	e17	---	69	206	197	90	65	34	37
31	26	---	e19	e16	---	71	---	172	---	61	36	---
TOTAL	880	780	697	458	550	1,733	3,883	10,863	2,730	1,823	1,468	1,162
MEAN	28.4	26.0	22.5	14.8	19.0	55.9	129	350	91.0	58.8	47.4	38.7
MAX	44	38	32	18	26	103	209	550	156	93	62	107
MIN	22	16	12	11	12	24	77	160	64	45	34	24
AC-FT	1,750	1,550	1,380	908	1,090	3,440	7,700	21,550	5,410	3,620	2,910	2,300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2004, BY WATER YEAR (WY)

MEAN	51.0	38.3	29.5	26.4	26.8	41.5	130	337	248	96.1	107	73.3
MAX	217	138	61.9	49.7	45.6	100	366	1,158	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	26.4	17.4	20.5	20.0	10.8
(WY)	(1957)	(1957)	(1957)	(1957)	(1951)	(1951)	(1951)	(2002)	(2002)	(1956)	(1956)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1920 - 2004	
ANNUAL TOTAL	23,409		27,027			
ANNUAL MEAN	64.1		73.8		101	
HIGHEST ANNUAL MEAN					267	1941
LOWEST ANNUAL MEAN					25.2	2002
HIGHEST DAILY MEAN	328	May 19	550	May 12	1,980	May 22, 1991
LOWEST DAILY MEAN	12	Dec 29	11	Jan 26	6.0	Dec 22, 1956
ANNUAL SEVEN-DAY MINIMUM	17	Feb 4	13	Jan 22	6.7	Dec 19, 1956
MAXIMUM PEAK FLOW			649	May 11	4,500	Sep 21, 1929
MAXIMUM PEAK STAGE			3.34	May 11	6.20	Sep 21, 1929
INSTANTANEOUS LOW FLOW					2.0	Mar 19, 1971
ANNUAL RUNOFF (AC-FT)	46,430		53,610		73,100	
10 PERCENT EXCEEDS	186		173		246	
50 PERCENT EXCEEDS	31		38		47	
90 PERCENT EXCEEDS	20		16		21	

e Estimated

08379500 PECOS RIVER NEAR ANTON CHICO, NM

LOCATION.--Lat 35°10'44", long 105°06'30", Guadalupe County, Hydrologic Unit 13060001, in Anton Chico Grant, on right bank 2.1 mi upstream from Canon Blanco, 2.3 mi southeast of Anton Chico, 9.7 mi downstream from Tecolote Creek, and at mile 808.0.

DRAINAGE AREA.--1,050 mi^2, approximately (contributing area).

PERIOD OF RECORD.--April 1910 to May 1916, October 1916 to September 1924, August to December 1925, January 1927 to current year. Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS.--WSP 1342: 1951(M), 1952-53. WSP 1512: 1912-14, 1931, 1933(M), 1935-36(M), 1938(P), 1939-40, 1941-42(M), 1945(M), 1946(P). WSP 1712: 1942(P).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,130 ft above National Geodetic Vertical Datum of 1929, from river-profile map. See WSP 1732 for history of changes prior to June 21, 1951.

REMARKS.--Records good except for those estimated, which are poor. Diversions upstream from station for irrigation of about 4,900 acres, 1959 determinations, upstream and downstream from station. Acequia del Bodo Juan Paiz (no measurements made during the water year) diverts water 8 mi upstream from gage and bypasses this station on left bank; ditch flow not included in record measurements made at point opposite regular gage. A portion of this flow may be returned to the river about 5.0 mi downstream. Several observations of water temperature were made during the year. No flow at times some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--The greatest flood since 1879 occurred Sept. 29, 1904, discharge about 73,000 ft^3/s, from information by a local resident.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	1.7	4.4	1.6	14	19	107	330	148	48	45	6.3
2	3.2	1.7	4.8	e1.6	7.8	16	123	288	136	37	30	2.4
3	3.4	2.7	5.3	1.0	8.7	17	1,010	256	134	24	19	2.1
4	4.5	e1.5	3.3	1.4	9.6	21	1,900	251	122	18	429	2.2
5	4.1	e3.0	4.3	e1.4	6.4	21	697	315	110	14	332	2.1
6	2.7	8.3	6.1	e1.8	16	20	702	359	98	7.3	97	1.6
7	177	3.7	6.7	1.3	15	18	785	389	87	e4.0	278	2.0
8	28	2.3	7.3	1.1	15	16	1,680	418	82	2.2	64	2.0
9	21	2.7	5.6	1.0	12	19	1,230	456	69	2.1	109	2.0
10	13	4.2	3.5	0.90	14	41	814	493	57	3.3	26	2.9
11	11	3.7	4.2	1.0	13	63	690	502	50	2.5	16	2.9
12	8.1	2.6	6.2	1.6	e10	70	563	514	45	3.6	18	1.5
13	7.1	4.8	6.8	1.5	e9.0	69	451	528	44	2.4	75	1.3
14	7.9	3.4	2.3	e1.0	e12	60	418	478	37	4.8	93	1.3
15	4.9	3.7	1.0	e3.2	13	66	482	416	29	10	330	1.1
16	4.4	3.8	1.3	4.3	21	63	571	392	12	1.8	63	1.2
17	4.3	5.8	4.8	5.6	18	66	624	381	5.9	1.4	31	1.1
18	3.3	5.8	6.2	6.7	21	69	629	374	5.1	11	24	1.1
19	3.8	3.4	6.8	3.4	18	77	648	365	26	3.8	140	2.3
20	1.9	1.9	6.5	4.2	16	92	584	376	129	3.6	254	11
21	2.3	2.0	6.6	5.5	16	111	504	396	21	9.9	219	100
22	4.8	1.7	e3.2	6.8	18	132	463	393	5.6	17	48	66
23	5.3	e1.7	e3.3	12	19	143	427	366	9.0	101	21	39
24	2.5	e1.8	e3.4	11	25	150	388	331	5.8	145	14	29
25	2.6	1.8	e3.6	6.1	22	155	336	292	10	115	14	21
26	2.9	4.1	e3.3	8.5	21	176	295	281	16	75	13	19
27	3.6	4.3	e3.6	5.2	18	173	277	250	61	75	9.0	9.6
28	4.2	e4.4	e4.0	6.6	16	177	269	227	25	101	9.4	9.0
29	2.1	e4.6	e3.8	9.4	17	147	286	201	694	68	9.4	7.4
30	1.7	e4.4	e3.4	13	---	126	309	193	416	125	2.1	7.1
31	1.7	---	e2.8	15	---	112	---	182	---	67	3.0	---
TOTAL	350.6	101.5	138.4	144.70	441.5	2,505	18,262	10,993	2,689.4	1,103.7	2,834.9	357.5
MEAN	11.3	3.38	4.46	4.67	15.2	80.8	609	355	89.6	35.6	91.4	11.9
MAX	177	8.3	7.3	15	25	177	1,900	528	694	145	429	100
MIN	1.7	1.5	1.0	0.90	6.4	16	107	182	5.1	1.4	2.1	1.1
AC-FT	695	201	275	287	876	4,970	36,220	21,800	5,330	2,190	5,620	709

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2004, BY WATER YEAR (WY)

MEAN	59.4	39.7	27.2	24.6	24.6	61.1	178	363	256	126	190	115
MAX	500	279	103	78.3	78.5	249	854	2,031	1,150	507	928	679
(WY)	(1942)	(1942)	(1942)	(1942)	(1987)	(1985)	(1942)	(1941)	(1941)	(1941)	(1991)	(1941)
MIN	0.00	0.00	0.00	1.82	0.92	0.29	1.54	0.86	0.08	3.81	4.38	0.00
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1971)	(1981)	(2002)	(2002)	(1934)	(2003)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1929 - 2004	
ANNUAL TOTAL	13,923.36		39,922.20			
ANNUAL MEAN	38.1		109		123	
HIGHEST ANNUAL MEAN					489	1941
LOWEST ANNUAL MEAN					8.54	2002
HIGHEST DAILY MEAN	770	Sep 5	1,900	Apr 4	10,000	Jun 2, 1937
LOWEST DAILY MEAN	0.64	Aug 9	0.90	Jan 10	0.00	Jun 16, 1934
ANNUAL SEVEN-DAY MINIMUM	0.72	Aug 4	1.2	Jan 8	0.00	Jun 16, 1934
MAXIMUM PEAK FLOW			5,120	Jun 29	40,300	Jun 1, 1937
MAXIMUM PEAK STAGE			8.79	Jun 29	20.34	Jun 1, 1937
INSTANTANEOUS LOW FLOW			0.04	Jan 4	0.00	Jun 16, 1934
ANNUAL RUNOFF (AC-FT)	27,620		79,190		88,760	
10 PERCENT EXCEEDS	134		388		337	
50 PERCENT EXCEEDS	5.5		14		37	
90 PERCENT EXCEEDS	1.5		1.9		4.3	

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 fair except for those estimated, which are poor. Diversions for irrigation of about 80 acres, 1959 determination, upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--The greatest flood since about 1900 occurred the night of Sept. 29, 1904 (discharge not determined), from information by local residents and G. B. Monk's report on floods.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	2.4	3.0	e3.4	e3.1	2.3	e81	65	18	8.6	11	7.8
2	2.9	2.4	3.0	e4.1	e2.9	2.2	e87	52	17	7.8	8.9	7.9
3	3.0	2.4	3.1	e3.8	e2.4	2.3	90	45	15	7.3	8.3	6.7
4	3.8	2.3	4.2	e3.4	e2.7	2.6	91	57	14	6.9	25	6.7
5	3.9	2.3	4.5	e3.3	e3.1	2.7	e160	69	12	6.7	54	7.3
6	3.5	2.3	3.1	e3.1	e3.3	2.5	e207	81	12	6.8	29	7.2
7	3.3	2.4	2.9	e3.6	e3.6	3.2	252	85	12	6.5	21	6.7
8	3.6	2.4	3.0	e4.2	e2.4	5.5	556	87	10	5.6	16	6.4
9	3.6	2.4	3.1	e4.5	e2.6	13	358	94	9.4	5.4	13	6.2
10	3.3	2.4	4.0	e4.3	e2.3	22	247	94	8.5	5.5	11	5.9
11	3.2	2.4	3.4	e4.1	e2.0	23	131	93	8.3	5.5	9.9	5.6
12	3.2	2.4	4.4	e3.9	e2.5	18	92	100	8.2	5.4	12	5.5
13	3.1	6.2	e4.6	e3.5	e2.6	16	99	88	7.9	5.3	23	5.3
14	2.9	3.2	e4.2	e3.4	e2.8	18	144	73	8.0	5.1	69	5.2
15	3.0	3.5	e4.2	e4.1	e2.9	18	192	62	7.5	5.0	58	5.1
16	3.0	3.4	e3.8	e3.8	e3.0	19	212	55	6.6	4.9	33	4.9
17	2.9	3.1	e5.0	e3.5	e3.7	20	205	57	6.5	4.7	24	4.8
18	2.9	2.9	e6.0	e2.7	e3.4	21	232	52	6.3	4.8	20	4.8
19	2.8	3.0	e5.1	e2.2	e3.0	21	182	51	6.2	5.4	23	7.7
20	2.8	3.1	e5.8	e2.4	e2.7	e19	115	53	6.3	5.8	23	25
21	2.6	3.1	e7.0	e2.3	e2.0	e19	92	53	6.0	5.7	23	17
22	2.6	3.0	e4.6	e2.1	e1.8	e21	82	50	6.2	5.6	18	12
23	2.6	3.6	e4.0	e2.5	e1.7	e25	75	44	6.8	5.9	15	9.9
24	2.5	3.5	e3.3	e2.8	e2.4	e33	61	39	7.2	9.5	13	9.1
25	2.5	3.9	e4.2	e2.2	e2.7	e39	55	35	7.1	24	11	8.9
26	2.5	3.4	e4.0	e2.1	e2.9	e45	51	32	7.9	14	9.4	11
27	2.6	3.6	e3.4	e2.5	e2.6	e51	55	28	7.9	12	8.9	11
28	2.6	4.7	e3.0	e3.1	e2.2	e57	70	24	8.5	14	8.8	10
29	2.7	4.2	e2.8	e3.4	2.3	e63	74	23	12	24	8.5	9.7
30	2.4	3.8	e2.6	e3.7	---	e69	77	22	11	20	8.1	9.3
31	2.4	---	e2.9	e3.3	---	e75	---	20	---	14	7.8	---
TOTAL	91.6	93.7	122.2	101.3	77.6	748.3	4,425	1,783	280.3	267.7	623.6	250.6
MEAN	2.95	3.12	3.94	3.27	2.68	24.1	148	57.5	9.34	8.64	20.1	8.35
MAX	3.9	6.2	7.0	4.5	3.7	75	556	100	18	24	69	25
MIN	2.4	2.3	2.6	2.1	1.7	2.2	51	20	6.0	4.7	7.8	4.8
AC-FT	182	186	242	201	154	1,480	8,780	3,540	556	531	1,240	497

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2004, BY WATER YEAR (WY)

MEAN	12.3	9.91	6.68	5.58	5.85	13.0	36.4	54.2	22.2	16.1	31.6	20.3
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	0.38	0.49	0.80	1.83	1.49	2.36	3.11	1.96	0.74	1.24	1.08	0.40
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1955)	(1967)	(1967)	(1956)	(1956)	(1934)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1926 - 2004	
ANNUAL TOTAL	2,263.9		8,864.9			
ANNUAL MEAN	6.20		24.2		19.6	
HIGHEST ANNUAL MEAN					80.7	1941
LOWEST ANNUAL MEAN					2.53	1956
HIGHEST DAILY MEAN	31	Apr 30	556	Apr 8	1,580	Sep 10, 1991
LOWEST DAILY MEAN	1.6	Feb 6	1.7	Feb 23	0.20	Sep 21, 1956
ANNUAL SEVEN-DAY MINIMUM	1.7	Jul 24	2.3	Feb 21	0.21	Oct 8, 1956
MAXIMUM PEAK FLOW			741	Apr 8	a7,120	Aug 2, 1966
MAXIMUM PEAK STAGE			3.95	Apr 8	b9.70	Aug 2, 1966
INSTANTANEOUS LOW FLOW					c0.20	Sep 21, 1956
ANNUAL RUNOFF (AC-FT)	4,490		17,580		14,190	
10 PERCENT EXCEEDS	15		69		45	
50 PERCENT EXCEEDS	3.5		6.0		7.7	
90 PERCENT EXCEEDS	2.2		2.5		2.7	

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 and Oct. 9-14, 1956, and Dec. 13, 1964.
e Estimated

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 with satellite telemetry. Elevation of gage is 4,940 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records 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 and 30, 1904.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	2.6	0.00	8.7	0.00	53	e0.30	5.6
2	0.00	0.00	0.00	0.00	0.00	2.5	0.00	7.0	0.00	18	e0.20	5.6
3	0.00	0.00	0.00	0.00	0.00	2.2	0.00	7.5	0.00	9.1	e0.20	5.2
4	0.00	0.00	0.00	0.00	0.00	2.0	2.2	6.4	0.00	6.3	e50	5.9
5	0.00	0.00	0.00	0.00	0.00	1.7	4.1	5.3	0.00	4.1	e320	31
6	0.00	0.00	0.00	0.00	0.00	1.7	4.6	5.3	0.00	3.1	e75	5.7
7	461	0.00	0.00	0.00	0.00	2.4	e5.0	4.9	0.00	2.5	e1,200	3.8
8	17	0.00	0.00	0.00	0.00	2.7	e120	4.6	0.00	2.6	e200	3.3
9	8.0	0.00	0.00	0.00	0.00	2.1	e200	5.4	0.00	2.3	e60	2.5
10	4.8	0.00	0.00	0.00	0.00	1.7	e40	4.4	0.00	1.7	e30	2.3
11	2.8	0.00	0.00	0.00	0.00	1.9	e16	3.0	0.00	1.6	e10	1.9
12	1.7	0.00	0.00	0.00	0.00	2.2	e17	1.8	0.00	3.2	e100	1.6
13	1.0	0.00	0.00	0.00	0.00	1.8	e18	0.85	0.00	2.8	e180	0.90
14	0.47	0.00	0.00	0.00	0.00	1.5	e20	0.42	0.00	2.7	e250	0.52
15	0.19	0.00	0.00	0.00	0.00	1.2	e22	0.05	0.00	2.6	e600	0.27
16	0.06	0.00	0.00	0.00	0.00	0.96	17	0.00	0.00	2.4	e300	0.13
17	0.01	0.00	0.00	0.00	0.00	0.69	15	0.00	0.00	1.1	e100	0.05
18	0.00	0.00	0.00	0.00	0.00	0.43	15	0.00	0.00	0.47	e50	0.01
19	0.00	0.00	0.00	0.00	0.00	0.27	14	0.00	0.00	0.26	e100	0.31
20	0.00	0.00	0.00	0.00	0.00	0.11	13	0.00	0.00	e0.40	e500	21
21	0.00	0.00	0.00	0.00	0.00	0.01	14	0.00	0.00	e0.30	e100	22
22	0.00	0.00	0.00	0.00	0.00	0.00	15	0.00	0.00	e0.30	e40	11
23	0.00	0.00	0.00	0.00	0.00	0.00	15	0.00	0.00	e1.0	e20	7.4
24	0.00	0.00	0.00	0.00	0.00	0.00	12	0.00	0.00	e0.80	e12	12
25	0.00	0.00	0.00	0.00	0.00	0.00	11	0.00	0.00	e0.70	e8.0	4.8
26	0.00	0.00	0.00	0.00	0.00	0.00	10	0.00	0.00	e0.60	8.4	3.9
27	0.00	0.00	0.00	0.00	0.55	0.00	8.8	0.00	0.00	e0.50	7.3	6.5
28	0.00	0.00	0.00	0.00	1.6	0.00	7.5	0.00	0.00	e0.40	6.6	7.1
29	0.00	0.00	0.00	0.00	1.9	0.00	6.4	0.00	76	e0.40	6.1	4.9
30	0.00	0.00	0.00	0.00	---	0.00	7.8	0.00	141	e0.30	5.8	24
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	e0.30	5.7	---
TOTAL	497.03	0.00	0.00	0.00	4.05	32.67	650.40	65.62	217.00	125.83	4,345.60	201.19
MEAN	16.0	0.00	0.00	0.00	0.14	1.05	21.7	2.12	7.23	4.06	140	6.71
MAX	461	0.00	0.00	0.00	1.9	2.7	200	8.7	141	53	1,200	31
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.20	0.01
AC-FT	986	0.00	0.00	0.00	8.0	65	1,290	130	430	250	8,620	399

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

MEAN	12.7	6.01	3.86	3.33	4.32	5.85	15.8	17.0	17.3	37.8	60.2	22.0
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1953)	(1952)	(1952)	(1951)	(1951)	(1951)	(1951)	(1952)	(1951)	(1964)	(2001)	(1951)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL TOTAL	789.53		6,139.39			
ANNUAL MEAN	2.16		16.8		17.5	
HIGHEST ANNUAL MEAN					66.6	1958
LOWEST ANNUAL MEAN					0.85	1978
HIGHEST DAILY MEAN	461	Oct 7	1,200	Aug 7	2,640	Aug 11, 1981
LOWEST DAILY MEAN	0.00	Mar 17	0.00	Oct 1	0.00	Jan 1, 1951
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 5	0.00	Oct 18	0.00	Jan 1, 1951
MAXIMUM PEAK FLOW			4,500	Oct 7	a13,700	Jul 11, 1982
MAXIMUM PEAK STAGE			11.73	Oct 7	19.67	Jul 11, 1982
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Jan 1, 1951
ANNUAL RUNOFF (AC-FT)	1,570		12,180		12,640	
10 PERCENT EXCEEDS	1.1		17		26	
50 PERCENT EXCEEDS	0.00		0.00		1.2	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

a From rating curve extended above 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.
e Estimated

08382600 PECOS RIVER ABOVE CANON DEL UTA NEAR COLONIAS, NM

LOCATION.--Lat 35°05'29", long 104°48'00", in sec.20, 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	28	e198	58	350	0.14	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	28	e180	0.28	106	0.07	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	146	e127	0.00	40	0.07	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	2,520	e103	0.00	0.38	0.07	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	2,130	e89	0.00	0.38	438	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	1,860	e88	0.00	0.38	221	0.00
7	613	0.00	0.00	0.00	0.00	0.00	1,730	e91	0.00	0.38	1,520	0.00
8	123	0.00	0.00	0.00	0.00	0.00	2,940	e118	0.00	0.38	301	0.00
9	49	0.00	0.00	0.00	0.00	0.00	2,090	e190	0.00	0.38	120	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	1,300	e185	0.00	0.38	e30	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	787	e269	0.00	e150	e20	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	e538	e325	0.00	e540	e80	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	e537	e400	0.00	e1.0	e140	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	e427	382	0.00	0.00	e270	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	e497	301	0.00	0.00	e700	0.00
16	0.00	0.00	0.00	0.00	0.00	0.71	e599	250	0.00	0.00	e200	0.00
17	0.00	0.00	0.00	0.00	0.00	0.60	e782	220	0.00	0.00	e50	0.00
18	0.00	0.00	0.00	0.00	0.00	1.2	e850	215	0.00	0.07	e20	0.00
19	0.00	0.00	0.00	0.00	0.00	3.5	e992	191	0.00	0.05	e18	0.00
20	0.00	0.00	0.00	0.00	0.00	19	e780	197	0.00	0.00	e650	0.00
21	0.00	0.00	0.00	0.00	0.00	41	e679	215	0.00	0.00	221	0.00
22	0.00	0.00	0.00	0.00	0.00	59	e705	209	0.00	0.00	50	0.00
23	0.00	0.00	0.00	0.00	0.00	75	e676	218	0.01	0.02	0.17	0.00
24	0.00	0.00	0.00	0.00	0.00	82	e544	186	0.01	317	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	85	e429	150	0.01	188	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	92	e288	132	0.01	157	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	84	e180	116	0.01	7.3	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	77	e146	93	0.01	133	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	89	e139	79	855	31	0.00	0.00
30	0.00	0.00	0.00	0.00	---	65	e145	86	1,450	0.85	0.00	0.00
31	0.00	---	0.00	0.00	---	43	---	80	---	97	0.00	---
TOTAL	785.00	0.00	0.00	0.00	0.00	817.01	25,492	5,683	2,363.34	2,120.95	5,049.52	0.00
MEAN	25.3	0.00	0.00	0.00	0.00	26.4	850	183	78.8	68.4	163	0.00
MAX	613	0.00	0.00	0.00	0.00	92	2,940	400	1,450	540	1,520	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	28	79	0.00	0.00	0.00	0.00
AC-FT	1,560	0.00	0.00	0.00	0.00	1,620	50,560	11,270	4,690	4,210	10,020	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2004, BY WATER YEAR (WY)

MEAN	24.1	23.7	7.23	3.88	5.12	35.5	122	297	247	97.6	164	75.8
MAX	139	160	42.0	19.0	73.4	192	850	736	1,057	418	1,062	660
(WY)	(1986)	(1999)	(1987)	(1987)	(1987)	(1985)	(2004)	(1979)	(1995)	(1991)	(1991)	(1991)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.74	0.00
(WY)	(1978)	(1977)	(1977)	(1976)	(1976)	(1976)	(1976)	(2002)	(2002)	(2003)	(2002)	(2004)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1976 - 2004	
ANNUAL TOTAL	7,010.51		42,310.82			
ANNUAL MEAN	19.2		116		94.6	
HIGHEST ANNUAL MEAN					245	1991
LOWEST ANNUAL MEAN					4.27	2002
HIGHEST DAILY MEAN	748	Sep 5	2,940	Apr 8	2,960	Aug 11, 1981
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Jan 1, 1976
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 10	0.00	Jan 1, 1976
MAXIMUM PEAK FLOW			4,710	Apr 8	a12,400	Jun 20, 1982
MAXIMUM PEAK STAGE			9.19	Apr 8	11.53	Jul 11, 1996
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Jan 1, 1976
ANNUAL RUNOFF (AC-FT)	13,910		83,920		68,500	
10 PERCENT EXCEEDS	60		301		295	
50 PERCENT EXCEEDS	0.00		0.00		6.2	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

a From rating curve extended above 1,200 ft^3/s, on basis of step-backwater analysis of channel.
e Estimated

08382650 PECOS RIVER ABOVE SANTA ROSA LAKE, NM

LOCATION.--Lat 35°03'35", long 104°45'41", in NE ¼ SE ¼ SE ¼ sec.25, T.10 N., R.20 E., Guadalupe County, Hydrologic Unit 13060001, at south boundary of 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.--WDR NM-99-1: 1999 (M) (mean daily values).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 4,760 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records fair except for those estimated, which are poor. Diversions and ground-water withdrawals for irrigation of about 11,800 acres, 1959 determination, upstream from station. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	3.9	3.2	3.6	3.6	2.7	36	246	58	213	49	e8.0
2	11	3.6	3.3	3.6	3.6	2.7	33	233	25	35	27	e7.5
3	12	3.5	3.2	3.6	3.6	2.8	104	173	9.5	10	6.3	e7.4
4	12	3.6	3.1	3.6	3.6	2.7	e1,100	137	6.5	6.6	3.4	e7.4
5	11	3.3	3.5	3.6	3.6	2.7	e2,250	149	6.3	6.5	352	e7.3
6	12	3.4	3.5	3.2	3.5	2.7	e1,600	207	6.1	6.3	166	e7.3
7	585	3.6	3.0	3.6	3.6	2.7	e1,250	250	5.7	5.8	728	e7.2
8	89	3.7	3.3	3.6	3.5	2.7	e2,000	269	5.5	6.5	196	e7.2
9	8.1	4.3	3.2	3.6	3.5	2.7	e1,400	296	5.5	6.1	91	e7.1
10	5.4	3.8	3.1	3.6	3.3	2.7	764	315	5.5	6.3	88	e7.1
11	4.3	3.2	3.1	3.6	3.2	2.7	639	342	5.5	3.7	e72	e7.0
12	4.4	4.3	3.2	3.4	e2.5	2.7	535	318	5.5	260	e161	e7.0
13	3.7	4.7	3.3	3.6	e2.6	2.7	423	354	5.5	15	e240	e7.0
14	3.9	4.3	3.1	3.5	3.2	2.7	363	345	5.5	6.6	e300	e7.0
15	e3.9	3.9	3.0	3.6	3.0	2.7	356	292	5.5	6.4	e660	6.5
16	e4.0	4.1	3.1	3.5	2.9	2.7	423	262	5.5	6.2	e450	6.5
17	e4.1	3.8	3.0	3.3	2.7	2.7	477	246	5.5	6.1	e67	6.5
18	e4.2	4.4	2.8	3.3	2.7	2.7	503	248	5.5	6.3	e20	6.5
19	e4.3	4.6	2.8	3.4	2.7	2.7	501	233	5.5	6.2	e10	6.7
20	e4.4	4.4	2.7	3.4	2.7	2.7	497	234	5.5	7.6	227	6.7
21	4.4	4.6	2.5	3.6	2.7	4.4	430	248	23	7.5	555	6.5
22	4.5	4.7	3.0	3.6	2.8	13	397	250	6.1	7.5	e80	14
23	4.3	4.9	3.8	3.6	2.8	37	373	240	5.5	6.5	e30	20
24	4.4	5.0	3.8	3.6	4.5	56	343	215	5.5	135	e17	7.5
25	4.5	4.9	3.2	3.6	3.2	65	298	186	5.4	146	e12	8.7
26	4.5	4.7	3.0	3.6	2.7	81	229	165	5.5	122	e12	6.6
27	4.5	4.5	3.8	3.6	2.7	92	186	153	11	72	e11	6.9
28	4.2	4.5	4.1	3.6	2.7	99	175	132	7.7	113	e10	6.5
29	3.8	3.8	4.2	3.6	2.7	101	160	102	353	79	e11	6.6
30	3.8	3.1	3.6	3.6	---	74	207	79	661	57	e10	27
31	3.9	---	3.6	3.6	---	51	---	76	---	114	e14	---
TOTAL	844.5	123.1	101.1	109.8	90.4	727.5	18,052	6,995	1,272.3	1,485.7	4,675.7	251.2
MEAN	27.2	4.10	3.26	3.54	3.12	23.5	602	226	42.4	47.9	151	8.37
MAX	585	5.0	4.2	3.6	4.5	101	2,250	354	661	260	728	27
MIN	3.7	3.1	2.5	3.2	2.5	2.7	33	76	5.4	3.7	3.4	6.5
AC-FT	1,680	244	201	218	179	1,440	35,810	13,870	2,520	2,950	9,270	498

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2004, BY WATER YEAR (WY)

MEAN	45.4	43.9	24.4	21.5	22.8	51.7	128	319	264	126	217	106
MAX	147	237	68.7	46.1	106	207	602	768	945	440	1,077	683
(WY)	(1986)	(1999)	(1987)	(1987)	(1987)	(1985)	(2004)	(1985)	(1979)	(1991)	(1991)	(1991)
MIN	6.50	4.10	3.26	3.54	3.12	4.44	4.99	7.93	8.74	4.16	5.86	6.12
(WY)	(1979)	(2004)	(2004)	(2004)	(2004)	(2003)	(1978)	(1981)	(2002)	(2003)	(2003)	(1978)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1976 - 2004	
ANNUAL TOTAL	10,134.1		34,728.3			
ANNUAL MEAN	27.8		94.9		117	
HIGHEST ANNUAL MEAN					265	1991
LOWEST ANNUAL MEAN					19.1	2002
HIGHEST DAILY MEAN	1,100	Sep 5	2,250	Apr 5	4,310	Jul 10, 1996
LOWEST DAILY MEAN	2.1	Aug 21	2.5	Dec 21	2.1	Aug 21, 2003
ANNUAL SEVEN-DAY MINIMUM	2.6	Aug 20	2.7	Mar 4	2.6	Aug 20, 2003
MAXIMUM PEAK FLOW			3,160	Apr 6	a16,000	Jul 11, 1996
MAXIMUM PEAK STAGE			9.32	Apr 6	19.06	Jul 11, 1996
INSTANTANEOUS LOW FLOW			2.5	Mar 17	0.90	Aug 2, 2003
ANNUAL RUNOFF (AC-FT)	20,100		68,880		84,760	
10 PERCENT EXCEEDS	61		297		331	
50 PERCENT EXCEEDS	4.5		5.6		29	
90 PERCENT EXCEEDS	3.1		2.8		7.9	

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

08382650 PECOS RIVER ABOVE SANTA ROSA LAKE, NM—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976, 1981-97, 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, NTU (00076)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
MAR													
02...	1240	2.7	2.6	644	9.1	93	8.0	2,010	2.0	8.5	1,200	425	38.1
MAY													
07...	1240	268	180	644	7.7	101	8.2	222	29.0	20.1	99	34.4	3.19
JUN													
22...	1345	6.5	18	645	6.6	99	8.1	1,370	22.0	27.2	780	270	26.8
AUG													
24...	1250	7.5	--	643	7.8	101	8.0	858	26.5	19.5	510	171	19.4

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
MAR													
02...	1.71	.2	13.9	138	167	8.40	.4	11.4	1,050		--	--	--
MAY													
07...	.77	.2	3.50	71	85	2.78	<.2	6.9	23.8	119	<.20	1.3	<.01
JUN													
22...	1.72	.2	11.5	141	169	6.72	.3	12.1	627	1,040	--	--	--
AUG													
24...	2.19	.2	10.4	131	E158	5.50	.2	11.3	339	638	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)
MAR													
02...	--	--	--	--	--	--	--	--	--	--	--	62	--
MAY													
07...	.03	.32	<.010	<.01	<.02	.22	9	<.20	<2	53	<.06	10	<.04
JUN													
22...	--	--	--	--	--	--	--	--	--	--	--	51	--
AUG													
24...	--	--	--	--	--	--	--	--	--	--	--	41	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recoverable, ug/L (71900)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)
MAR													
02...	--	--	--	26	--	--	<.02	--	--	--	<3	--	--
MAY													
07...	<.8	.181	1.4	6	<.08	2.4	E.02	.5	1.30	<3	<3	<.2	.7
JUN													
22...	--	--	--	12	--	--	--	--	--	--	<3	--	--
AUG													
24...	--	--	--	<6	--	--	<.02	--	--	--	<3	--	--

08382650 PECOS RIVER ABOVE SANTA ROSA LAKE, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)
MAR			
02...	--	100	6
MAY			
07...	.63	--	--
JUN			
22...	--	--	--
AUG			
24...	--	86	171

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

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 RECORD.--April 1980 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).

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 Oct. 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 telemetry 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, 57,120 acre-ft, Aug. 22, elevation, 4,732.10 ft; minimum, 1,610 acre-ft, Feb. 13-16, elevation, 4,676.00 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,730	4,840	4,950	5,070	5,200	1,830	3,400	35,300	45,620	47,270	49,150	57,020
2	3,740	4,840	4,950	5,070	5,200	1,840	3,510	35,650	45,620	47,270	49,100	57,020
3	3,760	4,840	4,960	5,070	5,220	1,850	3,660	35,940	45,620	47,250	49,080	56,950
4	3,780	4,840	4,960	5,070	5,220	1,860	6,840	36,130	45,580	47,210	49,080	56,950
5	3,780	4,840	4,960	5,080	5,220	1,870	9,580	36,330	45,560	47,160	49,700	56,900
6	3,780	4,850	4,970	5,100	5,220	1,880	11,370	36,630	45,560	47,120	50,000	56,850
7	4,390	4,850	4,980	5,100	5,220	1,880	12,820	37,020	45,510	47,160	51,710	56,770
8	4,740	4,860	4,980	5,100	5,220	1,890	16,030	37,440	45,450	47,120	52,170	56,750
9	4,780	4,870	4,980	5,100	4,450	1,890	19,610	37,960	45,410	47,470	52,210	56,720
10	4,790	4,870	5,000	5,110	3,100	1,900	21,350	38,460	45,410	47,520	52,340	56,670
11	4,790	4,870	5,000	5,120	2,320	1,900	22,740	39,050	45,360	47,520	52,380	56,640
12	4,790	4,880	5,000	5,120	1,910	1,920	23,960	39,580	45,320	48,080	52,680	56,600
13	4,790	4,900	5,010	5,120	1,610	1,920	24,780	40,200	45,280	48,060	53,090	55,640
14	4,790	4,900	5,010	5,130	1,610	1,920	25,490	40,900	45,210	48,040	53,340	53,380
15	4,790	4,910	5,010	5,140	1,610	1,930	26,090	41,410	45,140	47,990	55,090	50,800
16	4,800	4,910	5,020	5,150	1,610	1,930	26,850	41,840	45,100	47,940	55,660	48,260
17	4,800	4,910	5,020	5,150	1,650	1,940	27,750	42,220	45,060	47,900	55,760	45,690
18	4,810	4,910	5,020	5,150	1,680	1,940	28,650	42,680	45,020	47,880	55,760	43,080
19	4,820	4,920	5,020	5,150	1,690	1,950	29,550	42,950	44,970	47,860	55,820	40,540
20	4,820	4,930	5,030	5,160	1,700	1,950	30,480	43,270	44,930	47,860	56,290	37,940
21	4,820	4,930	5,030	5,170	1,700	1,950	31,330	43,640	44,890	47,830	56,870	35,400
22	4,820	4,930	5,030	5,180	1,710	1,990	32,010	43,980	44,860	47,970	57,120	32,670
23	4,820	4,930	5,040	5,180	1,730	2,060	32,580	44,370	44,840	47,970	57,080	30,130
24	4,830	4,940	5,040	5,180	1,760	2,170	33,140	44,650	44,820	48,240	57,020	27,600
25	4,820	4,930	5,050	5,180	1,780	2,290	33,560	44,910	44,780	48,440	56,950	25,060
26	4,820	4,930	5,040	5,190	1,800	2,430	33,930	45,120	44,780	48,620	56,900	22,570
27	4,830	4,930	5,040	5,190	1,810	2,600	34,220	45,280	44,800	48,620	56,870	21,250
28	4,830	4,940	5,040	5,190	1,820	2,790	34,470	45,470	44,780	48,740	56,820	21,240
29	4,820	4,940	5,060	5,190	1,830	2,990	34,720	45,540	45,560	48,830	56,820	21,250
30	4,820	4,950	5,060	5,200	---	3,160	34,980	45,510	46,870	48,960	56,900	21,280
31	4,830	---	5,070	5,200	---	3,300	---	45,560	---	49,120	57,020	---
MAX	4,830	4,950	5,070	5,200	5,220	3,300	34,980	45,560	46,870	49,120	57,120	57,020
MIN	3,730	4,840	4,950	5,070	1,610	1,830	3,400	35,300	44,780	47,120	49,080	21,240
(+)	4,690.61	4,690.94	4,691.27	4,691.63	4,677.57	4,685.38	4,721.90	4,727.21	4,727.81	4,728.81	4,732.06	4,712.83
(++)	+1,100	+120	+120	+130	-3,370	+1,470	+31,680	+10,580	+1,310	+2,250	+7,900	-35,740

CAL YR 2003 MAX 21,480 MIN 2,970 (++) -7,610
WTR YR 2004 MAX 57,120 MIN 1,610 (++) +17,550

(+) 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 those below 1.0 ft^3/s, which are fair. 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 temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.02	0.02	0.01	0.02	0.00	0.01	0.01	0.01	0.01	0.02	0.01
2	0.00	0.03	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.01
3	0.02	0.03	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
4	0.25	0.02	0.02	0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01
5	0.09	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01
6	0.06	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01
7	0.30	0.04	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.01
8	0.19	0.05	0.02	0.01	0.01	0.01	0.15	0.01	0.01	0.01	0.03	0.01
9	0.11	0.05	0.02	0.02	382	0.01	0.02	0.01	0.01	0.01	0.02	0.01
10	0.09	0.06	0.01	0.02	644	0.01	0.01	0.01	0.01	0.01	0.02	0.01
11	0.07	0.07	0.01	0.02	413	0.01	0.02	0.01	0.01	0.01	0.02	0.01
12	0.05	0.04	0.01	0.01	237	0.01	0.01	0.01	0.01	0.01	0.03	0.01
13	0.04	0.04	0.01	0.01	131	0.01	0.01	0.01	0.01	0.01	0.05	493
14	0.02	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.04	1,200
15	0.02	0.02	0.02	0.01	0.00	0.01	0.01	0.01	0.01	0.02	0.04	1,370
16	0.01	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	1,360
17	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.01	1,380
18	0.01	0.01	0.02	0.01	0.02	0.01	0.01	2.5	0.01	0.06	0.01	1,390
19	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.17	0.01	0.11	0.01	1,380
20	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.08	0.01	0.10	0.01	1,370
21	0.01	0.01	0.02	0.02	0.01	0.01	0.00	0.06	0.01	0.09	0.01	1,350
22	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.01	0.09	0.01	1,340
23	0.02	0.01	0.01	0.01	0.03	0.01	0.01	0.05	0.01	0.01	0.01	1,320
24	0.01	0.01	0.01	0.01	0.06	0.01	0.01	0.05	0.01	0.02	0.01	1,300
25	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.02	0.01	0.02	0.01	1,280
26	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.01	1,270
27	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	646
28	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.84
29	0.03	0.02	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.02	0.01	0.58
30	0.02	0.02	0.01	0.01	---	0.01	0.01	0.01	0.01	0.02	0.01	0.54
31	0.01	---	0.01	0.01	---	0.01	---	0.01	---	0.02	0.02	---
TOTAL	1.52	0.75	0.48	0.37	1,807.35	0.30	0.46	3.20	0.30	0.83	0.56	18,451.08
MEAN	0.05	0.03	0.02	0.01	62.3	0.01	0.02	0.10	0.01	0.03	0.02	615
MAX	0.30	0.07	0.03	0.02	644	0.01	0.15	2.5	0.01	0.11	0.05	1,390
MIN	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
AC-FT	3.0	1.5	1.0	0.7	3,580	0.6	0.9	6.3	0.6	1.6	1.1	36,600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2004, BY WATER YEAR (WY)

MEAN	11.4	8.66	7.35	13.9	33.4	52.3	78.9	247	250	184	197	145
MAX	112	145	59.0	188	249	277	655	672	1,026	561	619	649
(WY)	(1993)	(1987)	(1987)	(1996)	(1995)	(1998)	(1989)	(1989)	(1995)	(1983)	(1994)	(1988)
MIN	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01
(WY)	(1990)	(2003)	(2002)	(2003)	(2002)	(2004)	(2002)	(2003)	(2004)	(2003)	(2003)	(2000)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1980 - 2004	
ANNUAL TOTAL	9,567.88		20,267.20			
ANNUAL MEAN	26.2		55.4		105	
HIGHEST ANNUAL MEAN					215	1995
LOWEST ANNUAL MEAN					23.3	2002
HIGHEST DAILY MEAN	1,470	Jun 20	1,390	Sep 18	2,100	Jun 12, 1997
LOWEST DAILY MEAN	0.00	Mar 30	0.00	Oct 1	0.00	Jul 31, 1982
ANNUAL SEVEN-DAY MINIMUM	0.00	May 27	0.01	Feb 26	0.00	Mar 5, 1983
MAXIMUM PEAK FLOW			1,430	Sep 17	2,100	Jun 12, 1997
MAXIMUM PEAK STAGE			6.85	Sep 17	7.92	Jun 12, 1997
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Oct 1, 2003
ANNUAL RUNOFF (AC-FT)	18,980		40,200		76,200	
10 PERCENT EXCEEDS	0.03		0.08		433	
50 PERCENT EXCEEDS	0.01		0.01		0.32	
90 PERCENT EXCEEDS	0.00		0.01		0.01	

08383500 PECOS RIVER NEAR PUERTO DE LUNA, NM

LOCATION.--Lat 34°43'48", long 104°31'28", in NE ¼ SE ¼ NW ¼ sec.20, T.6 N., R.23 E., Guadalupe County, Hydrologic Unit 13060001, on left bank 9.0 mi southeast of Puerto de Luna, 17.5 mi upstream from Sumner Dam, and at mile 719.5.

DRAINAGE AREA.--3,970 mi^2, approximately (contributing area).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1512: 1939.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 4,311.34 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 15, 1954, at datum 1.0 ft higher.

REMARKS.--Water-discharge records good except for those greater than 1,000 ft^3/s and those estimated, which are fair. Flow regulated by Santa Rosa Lake (station 08382810) 37.7 mi upstream since Apr. 1980. Diversions for irrigation of about 10,280 acres, 1970 determination, upstream from station. Spring discharge from Blue Hole and Agua Negra upstream from station contributes a substantial inflow. Discharge represents inflow to Lake Sumner. Several observations of water temperature and specific conductance were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood since at least 1886 occurred June 2, 1937, when peak at Santa Rosa was 55,200 ft^3/s, and peak inflow to Lake Sumner was about 75,000 ft^3/s. Flood of July 24, 1895, was reported as "highest in 10 years." Other major floods occurred on June 9, 1903, Sept. 30, 1904, and May 1, 1914.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	79	76	76	77	79	76	72	53	64	66	75
2	62	81	75	76	77	79	83	72	55	64	65	80
3	62	80	76	76	76	86	102	72	55	66	66	69
4	149	79	76	75	76	90	260	71	58	64	65	67
5	153	78	75	75	76	83	154	67	57	61	66	66
6	75	80	77	75	76	79	94	66	56	60	68	65
7	725	80	79	e75	76	77	94	65	54	63	68	64
8	203	80	78	76	76	78	286	67	54	64	97	61
9	105	80	80	75	76	78	179	66	56	65	72	61
10	89	80	79	75	592	78	99	65	52	73	76	62
11	84	79	79	76	646	78	92	64	48	67	68	62
12	81	81	78	76	372	82	89	64	50	68	69	63
13	75	87	78	76	290	82	83	63	50	114	79	61
14	74	87	78	76	196	81	79	63	50	74	76	640
15	77	82	77	76	98	80	77	63	53	67	71	1,280
16	78	81	77	76	88	81	76	65	49	63	70	1,400
17	e78	81	77	76	84	79	78	65	51	61	71	1,470
18	e77	80	76	76	81	81	78	67	60	62	71	1,580
19	e77	78	76	76	79	81	76	65	56	91	73	1,640
20	e76	78	78	76	79	80	75	64	56	69	73	1,810
21	76	77	78	79	78	78	75	61	54	64	139	1,840
22	77	75	78	77	78	78	75	56	51	62	78	1,720
23	76	75	78	76	86	79	74	59	116	66	69	1,700
24	74	76	78	76	145	79	74	55	71	294	65	1,730
25	73	77	78	76	105	79	73	55	58	101	63	1,710
26	75	76	78	76	94	79	73	62	59	81	62	1,710
27	75	76	77	e76	100	79	72	58	121	76	60	1,650
28	76	76	e77	76	90	78	71	56	99	72	60	441
29	76	77	e77	76	83	78	71	54	73	70	61	180
30	76	76	76	76	---	77	72	55	69	81	66	164
31	76	---	76	76	---	77	---	56	---	79	65	---
TOTAL	3,292	2,372	2,396	2,354	4,150	2,473	2,960	1,953	1,844	2,426	2,218	23,521
MEAN	106	79.1	77.3	75.9	143	79.8	98.7	63.0	61.5	78.3	71.5	784
MAX	725	87	80	79	646	90	286	72	121	294	139	1,840
MIN	62	75	75	75	76	77	71	54	48	60	60	61
AC-FT	6,530	4,700	4,750	4,670	8,230	4,910	5,870	3,870	3,660	4,810	4,400	46,650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2004, BY WATER YEAR (WY)

MEAN	104	93.2	93.8	97.9	115	136	157	317	344	290	305	268
MAX	225	232	147	252	306	373	685	744	1,211	725	706	948
(WY)	(1986)	(1987)	(1987)	(1996)	(1994)	(1998)	(1989)	(1989)	(1995)	(1983)	(1994)	(1988)
MIN	73.1	76.3	73.5	75.9	76.7	73.5	67.5	63.0	61.5	68.2	65.2	66.4
(WY)	(1988)	(2000)	(1991)	(2004)	(1984)	(1989)	(2003)	(2004)	(2004)	(2003)	(2001)	(1990)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1980 - 2004	
ANNUAL TOTAL	38,986		51,959			
ANNUAL MEAN	107		142		a194	
HIGHEST ANNUAL MEAN					318	1995
LOWEST ANNUAL MEAN					103	2002
HIGHEST DAILY MEAN	1,530	Jun 20	1,840	Sep 21	3,510	Oct 17, 1985
LOWEST DAILY MEAN	59	Aug 7	48	Jun 11	39	Aug 4, 1987
ANNUAL SEVEN-DAY MINIMUM	62	Sep 27	50	Jun 11	43	Jul 29, 1987
MAXIMUM PEAK FLOW			3,040	Sep 21	b48,600	Sep 1, 1942
MAXIMUM PEAK STAGE			5.39	Sep 21	17.00	Sep 1, 1942
INSTANTANEOUS LOW FLOW			46	Jun 16	11	Jan 31, 1951
ANNUAL RUNOFF (AC-FT)	77,330		103,100		140,300	
10 PERCENT EXCEEDS	84		108		515	
50 PERCENT EXCEEDS	76		76		85	
90 PERCENT EXCEEDS	65		61		67	

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."
e Estimated

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 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, NTU (00076)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
JAN													
29...	0920	76	--	647	11.3	100	8.3	2,960	8.5	3.0	1,900	630	72.2
MAY													
03...	1650	72	24	653	7.0	101	8.1	3,290	27.5	25.0	1,700	558	72.3
JUN													
24...	1000	64	--	655	7.6	102	8.0	2,780	25.0	21.5	1,700	556	67.2
AUG													
27...	0915	59	--	655	8.1	100	7.9	2,710	25.0	17.5	1,600	539	69.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
JAN													
29...	2.44	1	106	136	163	145	.7	13.0	1,540		<.20	<.20	.01
MAY													
03...	2.07	1	107	105	125	151	.7	13.1	1,570	2,530	<.20	<.20	.01
JUN													
24...	2.76	1	101	101	121	138	.7	12.8	1,450		--	--	--
AUG													
27...	1.96	1	98.1	92	110	148	.7	13.7	1,550	2,480	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)
JAN													
29...	.08	.05	<.010	<.01	<.02	<.02	<3	<.40	M	15	<.12	109	<.08
MAY													
03...	.03	<.02	<.010	<.01	<.02	.02	<3	<.40	<2	24	<.12	107	<.08
JUN													
24...	--	--	--	--	--	--	--	--	--	--	--	110	--
AUG													
27...	--	--	--	--	--	--	--	--	--	--	--	111	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recoverable, ug/L (71900)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)
JAN													
29...	<.8	1.65	18.9	<19	<.16	13.8	<.02	2.9	6.83	<3	<3	<.4	8.3
MAY													
03...	1.2	1.76	9.5	<19	<.16	5.4	<.02	2.8	12.2	<3	<3	<.4	5.4
JUN													
24...	--	--	--	<19	--	--	--	--	--	--	<3	--	--
AUG													
27...	--	--	--	<19	--	--	<.02	--	--	--	E2	--	--

08383500 PECOS RIVER NEAR PUERTO DE LUNA, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)
JAN			
29...	1.90	93	8
MAY			
03...	1.98	98	77
JUN			
24...	--	98	247
AUG			
27...	--	81	90

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

08384000 LAKE SUMNER NEAR FORT SUMNER, NM

LOCATION.--Lat 34°36'30", long 104°23'04", in SE ¼ SW ¼ 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. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Apr. 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 Aug. 1937. Capacity, 128,657 acre-ft, from capacity table dated Nov. 2001 (1988 NGVD) between elevation 4,201.89 ft and elevation 4,283.89 ft, top of flood pool, sill of outlet gate, and elevation 4,275.0 ft, normal operating level. Capacity by original survey was 132,200 acre-ft. Dead storage 2,500 acre-ft. Reservoir is used to store water for irrigation.

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 138,300 acre-ft, May 23-30, June 1-10, July 21, Sept. 22, 23, 30, Oct. 12, Nov. 4, 5, 30, Dec. 23, 24, 1941, elevation, 4,275.00 ft; maximum elevation, 4,276.10 ft June 3, Sept. 8, 1958; no storage, July 28 to Aug. 2, 1951, elevation, 4,200.70 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 19,860 acre-ft, Mar. 1, elevation, 4,252.34 ft; minimum, 2,050 acre-ft, July 22, elevation 4,230.10 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,790	5,600	8,990	11,550	14,130	19,860	2,640	7,280	4,720	2,770	3,080	3,430
2	2,760	5,740	9,090	11,610	14,190	19,840	2,620	7,220	4,610	2,740	2,940	3,380
3	2,740	5,860	9,170	11,640	14,280	19,830	2,760	7,160	4,520	2,710	3,020	3,350
4	2,710	5,990	9,250	11,800	14,360	17,700	3,330	7,090	4,420	2,680	2,990	3,300
5	2,750	6,120	9,340	11,870	14,420	15,470	4,200	7,030	4,330	2,650	2,980	3,230
6	2,980	6,250	9,400	11,950	14,520	13,010	4,630	6,960	4,230	2,620	2,970	3,160
7	3,010	6,390	9,470	12,010	14,600	10,640	4,890	6,880	4,140	2,590	2,960	3,120
8	5,170	6,440	9,580	12,100	14,670	8,320	5,120	6,800	4,020	2,560	2,960	3,060
9	5,750	6,670	9,680	12,200	14,750	6,000	5,950	6,720	3,900	2,530	2,960	3,000
10	5,850	6,800	9,740	12,280	14,830	3,430	6,580	6,640	3,790	2,480	3,080	2,930
11	5,880	6,920	9,820	12,360	15,600	2,960	6,820	6,560	3,670	2,480	3,270	2,870
12	5,880	7,060	9,900	12,440	16,830	2,960	7,040	6,480	3,340	2,450	3,430	2,810
13	5,880	7,180	9,980	12,530	16,830	2,970	7,230	6,410	3,430	2,390	3,540	2,750
14	5,860	7,340	10,080	12,620	17,580	2,980	7,410	6,350	3,300	2,420	3,690	2,700
15	5,830	7,480	10,150	12,710	18,070	2,970	7,580	6,280	3,210	2,390	3,840	2,900
16	5,820	7,610	10,210	12,800	18,420	2,950	7,720	6,310	3,140	2,330	3,860	4,290
17	5,800	7,730	10,300	12,910	18,580	2,940	7,850	6,140	3,060	2,270	3,790	6,130
18	5,780	7,850	10,380	12,960	18,560	2,900	7,980	6,070	2,970	2,200	3,720	6,270
19	5,780	7,960	10,440	13,040	18,550	2,880	8,030	6,000	2,900	2,150	3,650	6,130
20	5,770	8,080	10,540	13,140	18,500	2,870	7,970	5,910	2,860	2,080	3,590	6,110
21	5,740	8,170	10,630	13,220	18,470	2,830	7,910	5,830	2,790	2,100	3,530	6,220
22	5,710	8,260	10,730	13,310	18,450	2,800	7,840	5,740	2,730	2,050	3,610	6,420
23	5,700	8,360	10,810	13,380	18,420	2,770	7,750	5,630	2,650	2,190	3,580	7,480
24	5,680	8,430	10,890	13,430	18,480	2,740	7,700	5,530	2,600	2,320	3,660	7,710
25	5,650	8,500	10,970	13,560	19,000	2,730	7,670	5,410	2,690	2,760	3,780	7,800
26	5,610	8,590	11,060	13,640	19,210	2,720	7,600	5,320	2,640	2,900	3,860	7,850
27	5,600	8,690	11,140	13,700	19,400	2,710	7,550	5,220	2,570	2,940	3,840	7,900
28	5,380	8,750	11,210	13,780	19,580	2,690	7,470	5,140	2,550	2,970	3,740	7,940
29	5,560	8,830	11,290	13,860	19,740	2,680	7,410	5,040	2,680	2,990	3,650	6,910
30	5,540	8,920	11,350	13,950	---	2,670	7,350	4,910	2,780	2,990	3,590	4,900
31	5,510	---	11,440	14,020	---	2,660	---	4,820	---	2,990	3,490	---
MAX	5,880	8,920	11,440	14,020	19,740	19,860	8,030	7,280	4,720	2,990	3,860	7,940
MIN	2,710	5,600	8,990	11,550	14,130	2,660	2,620	4,820	2,550	2,050	2,940	2,700
(+)	4,238.55	4,243.50	4,246.19	4,248.36	4,252.27	4,231.97	4,241.40	4,237.04	4,232.32	4,232.86	4,234.12	4,237.20
(++)	+2,680	+3,410	+2,520	+2,580	+5,720	-17,080	+4,690	-2,530	-2,040	+210	+500	+1,410

CAL YR 2003 MAX 14,720 MIN 1,620 (++) +1,150
WTR YR 2004 MAX 19,860 MIN 2,050 (++) +2,070

(+) 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. 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 and specific conductance were made during the year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	0.44	24	29	31	50	91	103	103	78	68	94
2	80	0.41	24	29	30	86	91	103	103	73	68	94
3	80	0.33	24	29	31	988	82	104	103	68	69	94
4	80	0.21	24	29	31	1,400	0.00	105	103	68	70	94
5	80	0.11	26	29	31	1,400	0.00	106	102	67	70	94
6	77	0.12	29	30	31	1,380	0.00	107	102	68	70	86
7	76	0.13	30	29	31	1,360	0.00	108	105	68	70	83
8	76	1.6	30	29	31	1,340	0.01	109	107	68	69	86
9	75	5.2	29	29	31	1,300	0.00	109	107	68	34	86
10	75	8.1	28	29	31	691	0.00	110	107	68	0.37	86
11	75	9.7	28	29	31	94	0.00	104	107	68	0.21	85
12	75	10	29	29	32	95	0.00	100	106	75	0.21	85
13	75	10	29	29	32	95	0.00	98	106	80	0.21	83
14	75	10	29	29	32	95	0.00	98	94	81	0.21	82
15	75	10	29	29	32	95	2.6	98	84	81	36	83
16	75	10	29	29	52	96	11	100	83	81	93	85
17	75	10	29	30	87	96	12	100	83	80	96	947
18	75	11	29	30	83	96	37	102	83	80	97	1,370
19	75	11	29	30	82	97	99	104	83	86	97	1,380
20	79	14	29	30	82	97	100	105	83	90	97	1,370
21	83	17	29	30	82	98	100	105	82	91	97	1,380
22	81	22	29	30	82	99	101	105	83	91	97	1,370
23	79	24	29	30	82	95	101	104	82	89	35	1,380
24	80	24	29	30	40	90	101	104	82	84	0.21	1,400
25	80	24	29	30	0.44	89	101	104	85	80	0.16	1,380
26	80	24	29	30	0.45	88	101	104	88	71	39	1,390
27	80	24	29	30	0.50	89	102	104	88	68	97	1,390
28	80	24	29	30	0.51	89	102	104	81	68	95	1,390
29	80	24	29	30	0.50	89	103	103	78	68	94	1,380
30	80	24	29	30	---	90	103	103	78	68	94	478
31	46	---	29	30	---	90	---	103	---	68	94	---
TOTAL	2,382	353.35	876	915	1,142.40	11,957	1,540.61	3,216	2,781	2,342	1,847.58	19,405
MEAN	76.8	11.8	28.3	29.5	39.4	386	51.4	104	92.7	75.5	59.6	647
MAX	83	24	30	30	87	1,400	103	110	107	91	97	1,400
MIN	46	0.11	24	29	0.44	50	0.00	98	78	67	0.16	82
AC-FT	4,720	701	1,740	1,810	2,270	23,720	3,060	6,380	5,520	4,650	3,660	38,490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2004, BY WATER YEAR (WY)

MEAN	128	34.9	14.7	20.7	34.0	233	257	337	430	311	287	267
MAX	1,184	910	170	143	398	605	1,317	1,404	2,905	970	967	2,789
(WY)	(1942)	(1943)	(1942)	(1942)	(2000)	(1944)	(1942)	(1973)	(1937)	(1983)	(1994)	(1941)
MIN	29.7	0.21	0.09	0.18	0.22	2.05	45.6	61.5	58.2	47.4	50.9	36.7
(WY)	(1975)	(1989)	(1989)	(1994)	(1954)	(1948)	(1957)	(1956)	(2002)	(1991)	(1991)	(1972)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1937 - 2004	
ANNUAL TOTAL	34,792.35		48,757.94			
ANNUAL MEAN	95.3		133		a197	
HIGHEST ANNUAL MEAN					710	1941
LOWEST ANNUAL MEAN					91.9	1954
HIGHEST DAILY MEAN	1,390	Jun 19	1,400	Mar 4	26,400	Sep 1, 1942
LOWEST DAILY MEAN	0.11	Nov 5	0.00	Apr 4	0.00	Sep 1, 1937
ANNUAL SEVEN-DAY MINIMUM	0.25	Nov 1	0.00	Apr 4	0.00	Feb 18, 1952
MAXIMUM PEAK FLOW			1,570	Mar 3	b42,800	Sep 1, 1942
MAXIMUM PEAK STAGE			4.42	Mar 3	13.58	Sep 22, 1941
INSTANTANEOUS LOW FLOW					0.00	Sep 1, 1937
ANNUAL RUNOFF (AC-FT)	69,010		96,710		142,600	
10 PERCENT EXCEEDS	94		105		757	
50 PERCENT EXCEEDS	76		78		84	
90 PERCENT EXCEEDS	23		10		0.51	

a 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.
b Discharge by computation of flow over spillway and through outlet gates of Sumner Dam by Bureau of Reclamation.

08385000 FORT SUMNER MAIN CANAL NEAR FORT SUMNER, NM

LOCATION.--Lat 34°30'30", long 104°16'40", in SE ¼ SW ¼ SW ¼ 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 Mar. 1954, at site 2.4 mi downstream at different datum. Apr. 1954 to Mar. 1965, at site 1.1 mi downstream at datum 1.7 ft lower.

REMARKS.--Records good except for those estimated, which are poor. Canal diverts water from Pecos River for irrigation of about 6,600 acres, 1961 determination, by the Fort Sumner Irrigation District. Several observations of water temperature were made during the year. No flow for many days each year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	0.01	0.00	0.00	0.00	0.00	77	80	92	78	70	86
2	78	0.00	0.00	0.00	0.00	49	82	83	92	74	67	85
3	78	0.00	0.00	0.00	0.00	86	66	90	92	65	66	85
4	80	0.00	0.00	0.00	0.00	99	0.07	90	92	63	67	85
5	79	0.00	0.00	0.00	0.00	97	0.03	90	92	61	69	85
6	78	0.00	0.00	0.00	0.00	94	0.03	89	92	60	57	84
7	86	0.00	0.00	0.00	0.00	91	0.03	89	92	62	73	79
8	35	0.00	0.00	0.00	0.00	89	0.04	89	93	60	75	80
9	0.00	0.00	0.00	0.00	0.00	87	0.02	88	90	58	50	79
10	0.00	0.00	0.00	0.00	0.00	81	0.00	88	95	58	0.00	81
11	0.00	0.00	0.00	0.00	0.00	95	0.00	87	95	57	0.00	84
12	0.00	0.00	0.00	0.00	0.00	93	0.00	82	95	57	0.00	85
13	35	0.00	0.00	0.00	0.00	92	0.00	80	96	68	0.00	85
14	82	0.00	0.00	0.00	0.00	91	0.00	83	95	73	0.00	83
15	79	0.00	0.00	0.00	0.00	91	0.00	83	85	73	0.00	80
16	64	0.00	0.00	0.00	0.00	90	0.00	85	79	72	e52	83
17	72	0.00	0.00	0.00	0.03	90	0.00	86	77	72	e89	89
18	74	0.00	0.00	0.00	60	90	0.01	87	77	72	e89	102
19	74	0.00	0.00	0.00	87	91	52	88	77	74	e89	105
20	74	0.00	0.00	0.00	85	90	90	90	78	82	90	105
21	76	0.00	0.00	0.00	78	91	92	91	77	84	50	105
22	76	0.00	0.00	0.00	78	90	92	91	77	84	0.00	107
23	72	0.00	0.00	0.00	80	88	92	92	79	84	0.00	105
24	71	0.00	0.00	0.00	e30.0	85	91	92	88	77	0.00	105
25	70	0.00	0.00	0.00	0.00	82	90	92	82	71	0.00	107
26	69	0.00	0.00	0.00	0.00	80	88	92	85	74	0.00	105
27	69	0.00	0.00	0.00	0.00	79	87	92	93	59	0.00	105
28	69	0.00	0.00	0.00	0.00	77	85	92	94	54	0.00	105
29	70	0.00	0.00	0.00	0.00	77	83	92	87	56	0.00	105
30	69	0.00	0.00	0.00	---	77	81	92	91	66	51	105
31	52	---	0.00	0.00	---	77	---	92	---	72	86	---
TOTAL	1,909.00	0.01	0.00	0.00	498.03	2,589.00	1,248.23	2,737	2,629	2,120	1,190.00	2,784
MEAN	61.6	0.00	0.00	0.00	17.2	83.5	41.6	88.3	87.6	68.4	38.4	92.8
MAX	86	0.01	0.00	0.00	87	99	92	92	96	84	90	107
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80	77	54	0.00	79
AC-FT	3,790	0.02	0.00	0.00	988	5,140	2,480	5,430	5,210	4,210	2,360	5,520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2004, BY WATER YEAR (WY)

MEAN	68.9	0.77	0.36	6.62	8.18	57.9	75.4	78.8	84.7	81.0	78.1	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	0.00	0.00	0.00	0.00	0.00	0.00	35.4	0.00	46.8	29.6	31.3	1.33
(WY)	(1942)	(1942)	(1941)	(1940)	(1940)	(1942)	(1942)	(1942)	(1941)	(1972)	(1990)	(1942)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1939 - 2004	
ANNUAL TOTAL	18,970.41		17,704.27			
ANNUAL MEAN	52.0		48.4		51.8	
HIGHEST ANNUAL MEAN					62.9	2000
LOWEST ANNUAL MEAN					25.3	1942
HIGHEST DAILY MEAN	115	Jun 27	107	Sep 22	174	Jul 22, 1941
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 9	0.00	Apr 5, 1939
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Nov 2	0.00	Nov 5, 1939
MAXIMUM PEAK FLOW			125	Mar 3	174	Jul 22, 1941
MAXIMUM PEAK STAGE			5.78	Mar 3	5.78	Mar 3, 2004
INSTANTANEOUS LOW FLOW			0.00	Oct 8	0.00	Apr 5, 1939
ANNUAL RUNOFF (AC-FT)	37,630		35,120		37,540	
10 PERCENT EXCEEDS	86		92		97	
50 PERCENT EXCEEDS	69		69		72	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

08385522 PECOS RIVER BELOW TAIBAN CREEK NEAR FORT SUMNER, NM

LOCATION.--Lat 34°19'56", long 104°10'48", NW ¼ NE ¼ sec.11, T.1 N., R.26 E., DeBaca County, Hydrologic Unit 13060003, on left bank 0.6 mi downstream from Taiban Creek, 11.0 mi southeast of Fort Sumner, and at mile 665.7.

PERIOD OF RECORD.--August 1992 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,910 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for those estimated, which are poor. Flow partly regulated by Sumner Dam (station 08384000) 23 mi upstream. Diversion for irrigation of about 19,100 acres (1959 determination) upstream from station. Discharge in general represents return flow from irrigated areas in Fort Sumner Irrigation Project.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	53	35	40	41	23	42	51	47	37	27	46
2	44	36	35	40	41	22	53	47	46	31	27	45
3	43	28	35	39	39	103	134	47	48	28	28	45
4	46	26	36	39	39	1,220	238	50	51	25	32	45
5	55	25	36	40	40	1,300	86	52	46	24	37	44
6	60	25	36	40	39	1,320	56	46	45	24	36	44
7	81	24	38	41	39	1,290	50	48	40	22	79	43
8	423	22	40	41	39	1,280	97	48	41	23	79	42
9	165	23	40	41	39	1,240	100	49	45	24	93	e41
10	89	24	40	41	39	1,180	48	51	48	27	169	e40
11	81	23	40	41	39	196	40	51	46	27	e90	e39
12	79	26	39	41	41	113	37	44	45	25	e53	e38
13	76	29	40	41	41	106	34	43	48	27	47	e37
14	66	30	39	41	40	91	32	41	49	22	39	e36
15	75	28	39	41	40	83	29	42	42	18	34	e35
16	82	27	39	40	39	73	26	43	31	18	31	31
17	70	27	40	40	47	63	24	40	29	18	48	34
18	70	28	39	40	55	61	27	43	27	18	52	977
19	58	28	41	39	62	71	28	42	25	18	51	1,140
20	47	28	41	39	25	80	38	49	28	20	133	1,200
21	45	27	40	40	28	65	36	51	27	24	164	1,230
22	41	29	41	40	30	71	39	51	22	26	114	1,380
23	44	31	41	40	31	52	45	46	22	96	97	1,290
24	37	34	41	40	61	49	44	46	22	173	84	1,300
25	34	36	40	40	80	46	47	45	28	139	73	1,390
26	38	34	39	40	36	45	41	45	68	58	61	1,330
27	36	34	40	40	29	44	40	47	46	45	54	1,340
28	45	34	40	39	26	43	41	46	68	39	50	1,330
29	40	35	39	40	24	43	44	47	101	32	49	1,330
30	39	36	41	40	---	42	45	43	80	28	48	1,110
31	36	---	41	40	---	42	---	44	---	27	47	---
TOTAL	2,182	890	1,211	1,244	1,169	10,457	1,641	1,438	1,311	1,163	2,026	17,032
MEAN	70.4	29.7	39.1	40.1	40.3	337	54.7	46.4	43.7	37.5	65.4	568
MAX	423	53	41	41	80	1,320	238	52	101	173	169	1,390
MIN	34	22	35	39	24	22	24	40	22	18	27	31
AC-FT	4,330	1,770	2,400	2,470	2,320	20,740	3,250	2,850	2,600	2,310	4,020	33,780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2004, BY WATER YEAR (WY)

MEAN	161	63.0	34.1	34.9	89.5	190	90.4	223	365	239	293	191
MAX	370	353	58.9	62.6	355	457	497	655	971	680	884	582
(WY)	(1994)	(1998)	(1996)	(1996)	(2000)	(1998)	(1993)	(2001)	(1995)	(1993)	(1994)	(1998)
MIN	53.4	24.5	18.7	14.7	15.1	29.1	26.8	17.3	21.2	31.2	23.1	27.0
(WY)	(2002)	(1997)	(1997)	(1997)	(1993)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2003)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1992 - 2004	
ANNUAL TOTAL	24,702		41,764			
ANNUAL MEAN	67.7		114		164	
HIGHEST ANNUAL MEAN					253	1995
LOWEST ANNUAL MEAN					68.5	2003
HIGHEST DAILY MEAN	1,350	Jun 23	1,390	Sep 25	2,130	May 1, 1999
LOWEST DAILY MEAN	16	Mar 13	18	Jul 15	8.2	Jun 19, 2002
ANNUAL SEVEN-DAY MINIMUM	19	Sep 3	19	Jul 14	9.7	Jun 10, 2002
MAXIMUM PEAK FLOW			1,690	Sep 22	4,580	May 1, 1999
MAXIMUM PEAK STAGE			5.99	Sep 22	8.35	May 1, 1999
INSTANTANEOUS LOW FLOW			18	Jul 14	6.9	Jan 4, 1997
ANNUAL RUNOFF (AC-FT)	49,000		82,840		119,000	
10 PERCENT EXCEEDS	50		98		634	
50 PERCENT EXCEEDS	32		41		48	
90 PERCENT EXCEEDS	23		27		21	

e Estimated

08385630 PECOS RIVER NEAR DUNLAP, NM

LOCATION.--Lat 34°03'52", long 104°18'22", in SE ¼ NW ¼ 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, and at mile 638.1

PERIOD OF RECORD.--August 1993 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,760 ft above National Geodetic Vertical Datum of 1929, from river-profile map.

REMARKS.--Records fair except for those greater than 1,000 ft^3/s and for those estimated, which are poor. Flow partly regulated by Lake Sumner (station 08384000). Diversion for irrigation of about 19,100 acres (1959 determination) upstream from station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	35	33	38	40	23	42	48	37	119	24	57
2	e28	47	33	35	40	22	44	53	39	80	24	49
3	e30	38	33	34	42	21	79	48	40	52	23	46
4	e32	32	33	33	42	346	308	47	40	39	27	44
5	e38	30	33	33	41	e1,200	306	47	42	33	72	42
6	e45	28	34	34	41	e1,300	196	49	38	44	29	40
7	e58	28	34	35	40	e1,350	121	45	36	30	121	38
8	e410	26	36	39	40	e1,300	72	44	33	25	131	37
9	e150	25	37	37	40	e1,270	148	48	31	25	86	34
10	e84	24	36	37	40	1,250	129	43	31	24	122	33
11	e68	23	37	37	36	813	85	45	33	24	205	32
12	e64	22	37	37	35	187	61	43	32	24	112	30
13	e61	22	36	37	38	136	50	39	33	24	69	27
14	e52	26	37	37	41	113	42	37	33	24	49	26
15	58	27	35	38	40	98	37	35	34	23	39	25
16	64	26	36	38	37	93	34	35	32	23	31	25
17	70	25	34	38	36	92	33	34	26	23	29	25
18	62	23	36	38	38	88	33	33	23	22	27	103
19	61	23	34	37	48	84	32	37	21	25	34	953
20	53	24	35	37	56	86	32	38	20	23	43	1,100
21	46	23	36	37	33	86	34	41	19	22	431	1,220
22	45	22	35	38	29	82	37	44	19	22	518	1,320
23	44	22	34	40	27	83	39	45	18	70	192	1,410
24	43	24	35	40	54	66	47	44	74	151	140	1,370
25	37	28	35	40	64	57	48	45	80	336	111	1,380
26	34	30	35	39	71	53	51	43	40	183	78	1,400
27	37	30	33	40	44	49	49	46	92	84	69	1,370
28	34	31	e36	41	34	46	48	47	162	74	62	1,340
29	38	32	e36	40	28	45	46	42	146	53	56	1,320
30	34	33	e36	40	---	44	50	40	140	30	52	1,320
31	35	---	e36	40	---	43	---	38	---	25	69	---
TOTAL	1,936	829	1,086	1,164	1,195	10,526	2,333	1,323	1,444	1,756	3,075	16,216
MEAN	62.5	27.6	35.0	37.5	41.2	340	77.8	42.7	48.1	56.6	99.2	541
MAX	410	47	37	41	71	1,350	308	53	162	336	518	1,410
MIN	21	22	33	33	27	21	32	33	18	22	23	25
AC-FT	3,840	1,640	2,150	2,310	2,370	20,880	4,630	2,620	2,860	3,480	6,100	32,160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2004, BY WATER YEAR (WY)

MEAN	147	65.8	33.6	35.4	85.0	190	55.4	219	360	204	290	182
MAX	369	305	49.5	62.6	315	403	120	728	918	514	837	550
(WY)	(1994)	(1998)	(1996)	(1996)	(2000)	(2002)	(1999)	(2001)	(1995)	(1998)	(1994)	(1998)
MIN	43.6	27.6	13.8	14.3	13.3	25.3	20.8	12.8	48.1	51.5	14.9	17.7
(WY)	(2002)	(2004)	(1997)	(1994)	(1997)	(2003)	(2003)	(2002)	(2004)	(2003)	(2003)	(2003)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1993 - 2004	
ANNUAL TOTAL	24,873.5		42,883			
ANNUAL MEAN	68.1		117		156	
HIGHEST ANNUAL MEAN					243	1995
LOWEST ANNUAL MEAN					70.8	2003
HIGHEST DAILY MEAN	1,630	Jun 23	1,410	Sep 23	1,770	Apr 30, 1999
LOWEST DAILY MEAN	8.9	Sep 10	18	Jun 23	0.19	Jun 19, 2002
ANNUAL SEVEN-DAY MINIMUM	11	Sep 4	21	Jun 17	2.8	Jun 7, 2002
MAXIMUM PEAK FLOW			1,540	Sep 23	6,470	Jun 20, 2002
MAXIMUM PEAK STAGE			3.54	Sep 23	4.80	Sep 9, 1995
INSTANTANEOUS LOW FLOW			17	Jun 23	0.00	Jun 20, 2002
ANNUAL RUNOFF (AC-FT)	49,340		85,060		113,300	
10 PERCENT EXCEEDS	54		142		594	
50 PERCENT EXCEEDS	28		39		47	
90 PERCENT EXCEEDS	13		25		18	

e Estimated

08386000 PECOS RIVER NEAR ACME, NM

LOCATION.--Lat 33°32'10", long 104°22'34", in SW ¼ NW ¼ sec.14, T.9 S., R.25 E., Chaves County, Hydrologic Unit 13060007, on right bank 3.0 mi downstream from U.S. Highway 70, 3.7 mi downstream from Salt Creek, 4.7 mi southwest of Acme, 14 mi northeast of Roswell, and at mile 585.3.

DRAINAGE AREA.--11,380 mi^2, approximately (contributing area).

PERIOD OF RECORD.--September 1921 to June 1923, July 1937 to current year. Monthly discharge only for some periods, published in WSP 1312.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,510 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 1, 1938, at site on highway bridge 3 mi upstream at various datums. Since Oct. 25, 1963, supplemental water-stage recorder at site opposite base gage at same datum.

REMARKS.--Records fair except for those estimated, which are poor. Flow regulated by Lake Sumner (station 08384000) 117 mi upstream since August 1937 and Santa Rosa Lake (station 08382810) 172 mi upstream since April 1980. Diversions for irrigation of about 20,000 acres, 1959 determination, upstream from station. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of May 28, 1937, reached a discharge of 53,000 ft^3/s, gage height, 14.82 ft, from floodmarks, site and datum then in use, from slope-area measurement, but may have been exceeded by the flood of Oct. 1, 1904.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	27	22	e27	27	34	41	37	13	91	e12	12
2	0.00	28	25	e26	27	28	41	37	13	68	e8.0	7.8
3	0.00	27	27	e25	27	24	86	36	13	53	2.1	13
4	0.00	29	27	e23	27	28	624	38	15	e30	11	9.8
5	0.00	28	25	e21	27	507	420	36	15	e19	138	8.9
6	23	23	24	e20	27	1,070	396	35	14	e13	173	e8.6
7	172	22	25	e19	26	1,180	205	35	14	e12	51	e8.4
8	260	21	24	20	26	1,330	127	35	13	12	48	e8.2
9	1,070	21	24	26	25	1,080	88	32	11	9.7	85	e8.0
10	552	20	26	31	24	1,120	87	31	8.8	86	71	7.9
11	284	19	28	31	25	1,150	169	33	6.8	71	86	6.7
12	157	19	27	32	28	e509	93	29	6.0	26	99	3.9
13	126	23	26	32	28	e255	62	28	6.0	e17	139	2.5
14	102	e24	28	32	26	e162	53	27	6.6	e10	75	1.6
15	87	e23	25	34	31	e135	48	26	7.3	e5.0	67	0.76
16	74	e21	25	34	27	124	44	24	7.2	e1.3	61	0.64
17	64	e18	25	35	30	101	41	22	6.9	e0.00	65	0.56
18	63	e16	26	35	26	88	39	21	6.5	e0.00	57	0.48
19	63	14	26	35	24	78	36	20	4.4	e0.00	54	0.43
20	54	14	28	32	21	74	33	21	3.4	e0.00	51	624
21	49	13	29	31	31	71	30	19	2.1	e0.00	48	893
22	39	14	29	29	41	75	29	17	1.6	e0.00	347	1,030
23	28	e10	29	30	29	80	30	16	1.4	e0.00	499	1,220
24	e27	e10	29	28	49	72	31	16	0.81	e0.00	299	1,150
25	e27	e11	29	27	65	70	32	17	0.60	e40	143	2,970
26	e27	12	30	26	62	59	34	17	56	273	e70	1,560
27	e26	13	29	26	69	53	35	18	47	180	e50	1,300
28	e26	16	26	24	64	47	37	19	127	91	e41	1,190
29	e27	19	21	26	46	43	36	17	240	e46	e33	1,160
30	e27	21	23	28	---	41	35	16	124	e31	e25	1,220
31	27	---	27	28	---	41	---	15	---	e21	e17	---
TOTAL	3,481.00	576	814	873	985	9,729	3,062	790	791.41	1,206.00	2,925.1	14,427.17
MEAN	112	19.2	26.3	28.2	34.0	314	102	25.5	26.4	38.9	94.4	481
MAX	1,070	29	30	35	69	1,330	624	38	240	273	499	2,970
MIN	0.00	10	21	19	21	24	29	15	0.60	0.00	2.1	0.43
AC-FT	6,900	1,140	1,610	1,730	1,950	19,300	6,070	1,570	1,570	2,390	5,800	28,620

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2004, BY WATER YEAR (WY)

MEAN	147	59.0	27.2	26.6	34.5	169	193	275	305	305	258	285
MAX	2,200	858	236	190	375	595	1,217	2,680	2,186	1,611	813	3,527
(WY)	(1942)	(1943)	(1942)	(1942)	(2000)	(1941)	(1942)	(1941)	(1941)	(1960)	(1997)	(1941)
MIN	0.00	0.00	0.00	0.00	0.00	0.16	3.58	1.81	0.00	0.19	0.90	0.00
(WY)	(1948)	(1948)	(1948)	(1948)	(1953)	(1954)	(1967)	(1946)	(1947)	(1954)	(1947)	(1947)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1938 - 2004	
ANNUAL TOTAL	18,604.84		39,659.68			
ANNUAL MEAN	51.0		108		174	
HIGHEST ANNUAL MEAN					964	1941
LOWEST ANNUAL MEAN					47.5	2003
HIGHEST DAILY MEAN	1,070	Oct 9	2,970	Sep 25	29,500	Sep 23, 1941
LOWEST DAILY MEAN	0.00	Jul 27	0.00	Oct 1	0.00	May 23, 1938
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 27	0.00	Jul 17	0.00	May 23, 1938
MAXIMUM PEAK FLOW			4,440	Sep 25	a45,000	Sep 23, 1941
MAXIMUM PEAK STAGE			7.73	Sep 25	13.71	Sep 23, 1941
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Jul 26, 2003
ANNUAL RUNOFF (AC-FT)	36,900		78,660		126,400	
10 PERCENT EXCEEDS	63		170		663	
50 PERCENT EXCEEDS	23		28		25	
90 PERCENT EXCEEDS	0.00		6.8		1.0	

a From rating curve extended above 27,000 ft^3/s.
e Estimated

08386505 RIO RUIDOSO AT RUIDOSO, NM

LOCATION.--Lat 33°20'12", long 105°43'34", in SW ¼ SW ¼ NW ¼, sec.19, T.11 S., R.13 E., Lincoln County, Hydrologic Unit 13060008, on right bank at Village of Ruidoso, 2.6 mi to State Road 48, and 6.2 mi west of U.S. Highway 70.

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,160 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.88	0.91	0.74	0.80	0.96	1.7	15	18	3.7	1.7	3.6	7.6
2	0.73	0.92	0.74	0.62	0.97	1.7	15	16	3.3	1.5	4.3	6.2
3	0.79	0.91	0.74	0.51	1.0	1.6	16	14	3.5	1.5	5.0	5.7
4	1.2	0.91	0.72	0.48	1.0	1.8	21	13	4.5	1.6	4.6	5.2
5	0.97	0.93	0.72	0.52	0.99	1.3	20	15	3.4	1.5	3.4	5.7
6	0.93	0.89	0.77	0.58	0.93	2.2	19	15	3.3	1.5	2.5	5.0
7	1.6	0.78	0.77	0.59	0.95	2.7	19	16	3.2	1.3	2.3	4.4
8	2.0	0.78	0.82	0.57	0.98	3.4	23	16	2.7	1.1	2.3	4.6
9	1.4	0.77	0.81	0.57	0.99	4.7	26	18	2.5	1.1	2.0	4.3
10	1.3	0.76	0.79	0.59	0.97	7.5	28	19	2.4	1.1	1.9	3.9
11	1.2	0.74	0.88	0.61	1.0	8.7	28	18	2.2	1.8	2.5	3.2
12	1.1	0.79	0.79	0.61	0.96	8.0	25	17	2.1	1.8	3.1	3.5
13	1.1	1.3	0.74	0.61	1.0	7.1	26	16	2.0	1.7	2.9	2.6
14	1.1	4.9	0.81	0.65	1.1	7.6	34	14	1.8	3.2	9.7	2.3
15	1.0	3.0	0.67	0.76	1.1	8.7	40	12	1.9	3.1	10	2.4
16	0.98	1.9	0.70	1.2	1.1	9.7	43	11	1.9	2.5	11	2.2
17	0.94	1.5	0.80	0.93	1.2	11	45	9.8	1.9	2.3	14	2.1
18	0.92	1.3	0.84	0.85	1.3	12	47	9.5	2.0	2.0	18	2.3
19	0.92	1.2	0.79	0.81	1.3	15	49	8.7	2.3	1.5	17	4.2
20	0.93	1.1	0.76	0.81	1.2	17	39	8.9	2.9	1.4	13	3.8
21	0.92	1.0	0.65	0.82	1.4	20	34	8.5	1.9	1.4	11	2.0
22	0.92	0.96	0.60	0.79	1.4	20	30	7.9	2.1	1.4	9.7	1.7
23	0.93	0.82	0.63	0.80	1.5	22	27	7.1	3.6	1.4	8.9	1.7
24	0.93	0.78	0.69	0.85	1.5	27	25	6.1	2.6	2.4	7.8	1.7
25	0.96	0.84	0.69	0.84	1.4	30	23	5.5	3.0	4.2	6.7	1.8
26	1.1	0.83	0.66	0.71	1.5	28	22	5.0	3.7	4.6	6.1	2.0
27	0.99	0.73	0.57	0.82	1.6	24	21	7.3	3.0	6.8	5.4	2.0
28	0.84	0.73	0.58	0.87	1.7	20	20	5.3	2.5	5.0	5.5	2.6
29	0.74	0.78	0.58	0.92	1.7	17	20	4.9	3.1	3.9	5.4	2.5
30	0.77	0.74	0.62	0.96	---	15	19	4.7	2.3	3.2	6.1	2.6
31	0.85	---	0.67	1.00	---	14	---	4.3	---	2.7	7.7	---
TOTAL	31.94	34.50	22.34	23.05	34.70	370.4	819	351.5	81.3	72.2	213.4	101.8
MEAN	1.03	1.15	0.72	0.74	1.20	11.9	27.3	11.3	2.71	2.33	6.88	3.39
MAX	2.0	4.9	0.88	1.2	1.7	30	49	19	4.5	6.8	18	7.6
MIN	0.73	0.73	0.57	0.48	0.93	1.3	15	4.3	1.8	1.1	1.9	1.7
AC-FT	63	68	44	46	69	735	1,620	697	161	143	423	202

CAL YR	2003	TOTAL	1,611.84	MEAN	4.42	MAX	31	MIN 0.57	AC-FT	3,200
WTR YR	2004	TOTAL	2,156.13	MEAN	5.89	MAX	49	MIN 0.48	AC-FT	4,280

08387000 RIO RUIDOSO AT HOLLYWOOD, NM

LOCATION.--Lat 33°19'36", long 105°37'38", in SE ¼ SE ¼ NE ¼ 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, 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. 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	4.2	4.2	5.9	5.8	6.4	8.8	20	7.4	5.1	6.2	9.3
2	3.6	4.2	5.2	5.7	5.3	6.7	9.8	18	6.9	4.7	7.3	6.7
3	4.3	4.4	5.4	5.0	5.8	6.5	10	16	6.9	4.5	8.8	6.0
4	5.3	4.8	5.5	4.8	6.4	7.1	17	15	8.4	4.5	7.7	5.8
5	5.1	4.7	5.5	4.8	5.9	7.9	16	16	7.8	4.3	5.8	6.1
6	4.9	4.8	5.5	5.0	5.7	7.2	12	17	6.6	4.1	4.7	5.7
7	11	4.5	5.5	5.2	5.6	7.5	12	18	6.7	4.2	5.2	5.7
8	6.6	4.5	6.2	5.0	5.9	7.5	15	18	6.3	4.3	6.1	5.9
9	5.0	4.5	5.9	5.0	5.6	7.3	17	19	5.7	4.4	4.6	5.8
10	4.7	4.6	5.2	5.0	5.7	7.0	25	21	5.6	4.5	4.3	5.5
11	4.7	4.5	5.5	5.2	5.8	9.2	24	20	5.4	5.1	4.5	5.3
12	4.5	4.6	5.5	5.2	5.7	7.7	19	20	5.4	7.1	6.2	5.0
13	4.4	6.6	5.2	5.2	5.7	7.2	19	19	5.2	5.2	5.6	4.8
14	4.2	9.7	5.4	5.2	6.2	6.8	26	18	5.1	6.8	11	5.5
15	4.3	7.4	5.5	5.8	6.4	7.1	29	16	4.9	8.7	12	5.7
16	4.6	5.8	5.2	6.2	6.4	7.2	32	15	4.9	6.2	14	4.9
17	4.5	5.3	5.4	6.1	6.4	7.4	32	14	4.7	5.6	18	4.7
18	4.7	5.6	5.5	5.9	6.3	8.8	36	14	4.4	5.1	18	4.6
19	4.8	5.7	5.6	5.8	6.6	10	39	13	5.0	4.8	18	5.8
20	4.5	4.7	5.5	5.7	6.3	12	32	13	5.4	5.1	15	7.4
21	4.3	4.6	5.5	5.5	6.5	14	30	12	4.7	5.0	13	5.2
22	4.3	4.6	5.2	5.5	6.5	14	30	12	4.9	4.8	12	4.1
23	4.3	4.4	5.2	5.5	6.8	14	28	11	6.4	6.4	11	3.8
24	4.3	4.2	5.4	5.5	6.8	17	26	11	5.8	5.0	10	3.8
25	4.5	4.3	5.4	5.9	6.5	21	25	11	6.5	7.4	9.0	4.0
26	5.0	4.4	5.3	5.4	6.5	21	24	9.3	6.8	7.6	7.9	4.8
27	5.2	4.2	5.4	5.4	6.6	19	23	12	6.1	11	6.7	4.7
28	4.8	4.1	5.0	5.8	6.9	15	22	10	5.5	9.0	6.7	4.9
29	4.5	4.2	6.4	6.1	6.7	12	22	8.7	5.8	9.0	7.7	5.1
30	4.4	4.1	5.6	5.9	---	9.6	22	8.3	5.7	8.2	6.5	5.4
31	4.4	---	5.5	5.8	---	8.5	---	7.9	---	7.1	6.6	---
TOTAL	149.0	148.2	168.3	170.0	179.3	319.6	682.6	453.2	176.9	184.8	280.1	162.0
MEAN	4.81	4.94	5.43	5.48	6.18	10.3	22.8	14.6	5.90	5.96	9.04	5.40
MAX	11	9.7	6.4	6.2	6.9	21	39	21	8.4	11	18	9.3
MIN	3.3	4.1	4.2	4.8	5.3	6.4	8.8	7.9	4.4	4.1	4.3	3.8
AC-FT	296	294	334	337	356	634	1,350	899	351	367	556	321

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2004, BY WATER YEAR (WY)

MEAN	18.2	15.1	18.9	15.1	18.3	28.5	37.3	31.8	17.2	17.0	32.6	22.2
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	4.81	4.94	5.43	5.48	5.81	5.80	5.81	4.20	3.12	5.56	5.80	4.44
(WY)	(2004)	(2004)	(2004)	(2004)	(2000)	(2002)	(2002)	(2002)	(2002)	(2001)	(2003)	(2003)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1982 - 2004	
ANNUAL TOTAL	3,270.4		3,074.0			
ANNUAL MEAN	8.96		8.40		22.7	
HIGHEST ANNUAL MEAN					49.7	1987
LOWEST ANNUAL MEAN					6.03	2002
HIGHEST DAILY MEAN	48	Apr 16	39	Apr 19	1,130	Dec 20, 1984
LOWEST DAILY MEAN	3.3	Sep 30	3.3	Oct 1	1.9	Aug 27, 1994
ANNUAL SEVEN-DAY MINIMUM	3.7	Sep 27	4.2	Nov 24	2.4	Aug 24, 1994
MAXIMUM PEAK FLOW			57	Aug 15	2,120	Aug 11, 1984
MAXIMUM PEAK STAGE			2.24	Aug 15	10.05	Jun 17, 1965
INSTANTANEOUS LOW FLOW			3.1	Oct 2	0.30	Jan 1, 1962
ANNUAL RUNOFF (AC-FT)	6,490		6,100		16,450	
10 PERCENT EXCEEDS	15		18		48	
50 PERCENT EXCEEDS	6.6		5.8		13	
90 PERCENT EXCEEDS	4.3		4.5		6.4	

08387600 EAGLE CREEK BELOW SOUTH FORK, NEAR ALTO, NM

LOCATION.--Lat 33°23'57", long 105°43'11", in SW ¼ SW ¼ 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 mi 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. Aug. 26, 1969, to Dec. 31, 1980, at site 360 ft downstream at datum 6.0 ft higher.

REMARKS.--Records poor. No diversions for irrigation upstream from station. Some water is stored in small unregulated recreational ponds on the Mescalero Apache Indian Reservation upstream. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	e0.13	0.28	0.16	0.67	0.00	0.00	0.09	0.40
2	0.00	0.00	0.00	0.00	e0.13	0.26	0.24	0.58	0.00	0.00	0.20	0.34
3	0.00	0.00	0.00	0.00	e0.14	0.24	0.31	0.51	0.00	0.00	0.21	0.27
4	0.00	0.00	0.00	0.00	e0.16	0.29	1.7	0.47	0.00	0.00	0.19	0.24
5	0.00	0.00	0.00	0.00	e0.16	0.25	1.5	0.44	0.00	0.00	0.22	0.24
6	0.00	0.00	0.00	0.00	e0.17	0.63	1.4	0.42	0.00	0.00	0.14	0.18
7	0.00	0.00	0.00	0.00	e0.17	0.92	0.85	0.39	0.00	0.00	0.09	0.14
8	0.00	0.00	0.00	0.00	e0.18	0.84	0.76	0.34	0.00	0.00	0.92	0.13
9	0.00	0.00	0.00	0.00	e0.19	0.74	0.99	0.30	0.00	0.00	0.37	0.11
10	0.00	0.00	0.00	0.00	e0.19	0.82	2.9	0.25	0.00	0.00	0.14	0.09
11	0.00	0.00	0.00	0.00	e0.20	0.78	3.5	0.22	0.00	0.00	0.10	0.07
12	0.00	0.00	0.00	0.00	e0.20	0.91	3.9	0.20	0.00	0.00	0.18	0.06
13	0.00	0.00	0.00	0.00	e0.21	0.96	4.5	0.20	0.00	0.00	1.3	0.05
14	0.00	0.04	0.00	e0.06	e0.21	0.91	4.1	0.19	0.00	0.86	5.3	0.02
15	0.00	0.02	0.00	e0.07	e0.20	0.88	4.1	0.20	0.00	0.18	5.1	0.00
16	0.00	0.02	0.00	e0.14	e0.20	0.79	3.8	0.20	0.00	0.06	4.6	0.00
17	0.00	0.02	0.00	e0.13	e0.20	0.73	3.4	0.19	0.00	0.04	4.9	0.00
18	0.00	0.02	0.00	e0.11	e0.21	0.74	3.5	0.21	0.00	0.04	4.9	0.00
19	0.00	0.02	0.00	e0.10	e0.22	0.78	4.0	0.21	0.00	0.01	3.1	0.00
20	0.00	0.02	0.00	e0.10	e0.21	0.78	3.1	0.18	0.00	0.00	2.4	0.07
21	0.00	0.02	0.00	e0.09	e0.21	0.71	2.4	0.14	0.00	0.00	1.9	0.04
22	0.00	0.01	0.00	e0.09	e0.22	0.68	1.9	0.11	0.00	0.00	1.5	0.01
23	0.00	0.00	0.00	e0.10	e0.22	0.67	1.5	0.09	0.00	0.00	1.2	0.00
24	0.00	0.00	0.00	e0.10	e0.23	0.58	1.3	0.08	0.00	0.00	1.0	0.00
25	0.00	0.00	0.00	e0.09	e0.22	0.51	1.2	0.06	0.00	0.07	0.86	0.00
26	0.00	0.00	0.00	e0.09	e0.23	0.44	1.2	0.04	0.05	0.39	0.69	0.02
27	0.00	0.00	0.00	e0.10	e0.24	0.37	1.1	0.06	0.04	0.47	0.55	0.09
28	0.00	0.00	0.00	e0.10	e0.26	0.31	0.95	0.07	0.01	0.32	0.46	0.35
29	0.00	0.00	0.00	e0.11	e0.27	0.30	0.84	0.05	0.00	0.15	0.47	0.37
30	0.00	0.00	0.00	e0.11	---	0.26	0.73	0.00	0.00	0.11	0.53	0.40
31	0.00	---	0.00	e0.12	---	0.22	---	0.00	---	0.09	0.53	---
TOTAL	0.00	0.19	0.00	1.81	5.78	18.58	61.83	7.07	0.10	2.79	44.14	3.69
MEAN	0.00	0.01	0.00	0.06	0.20	0.60	2.06	0.23	0.00	0.09	1.42	0.12
MAX	0.00	0.04	0.00	0.14	0.27	0.96	4.5	0.67	0.05	0.86	5.3	0.40
MIN	0.00	0.00	0.00	0.00	0.13	0.22	0.16	0.00	0.00	0.00	0.09	0.00
AC-FT	0.00	0.4	0.00	3.6	11	37	123	14	0.2	5.5	88	7.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2004, BY WATER YEAR (WY)

MEAN	1.95	1.57	1.65	1.28	1.79	3.23	4.24	3.37	1.15	1.68	3.32	2.98
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	0.00	0.01	0.00	0.05	0.07	0.08	0.04	0.00	0.00	0.00	0.00	0.04
(WY)	(2004)	(2004)	(2004)	(2002)	(2000)	(2000)	(2002)	(1996)	(2003)	(2003)	(2003)	(2003)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1970 - 2004	
ANNUAL TOTAL	76.39		145.98			
ANNUAL MEAN	0.21		0.40		2.30	
HIGHEST ANNUAL MEAN					8.48	1979
LOWEST ANNUAL MEAN					0.14	2002
HIGHEST DAILY MEAN	3.5	Apr 19	5.3	Aug 14	170	Dec 19, 1978
LOWEST DAILY MEAN	0.00	May 21	0.00	Oct 1	0.00	Jul 9, 1989
ANNUAL SEVEN-DAY MINIMUM	0.00	May 21	0.00	Oct 1	0.00	Jun 17, 1990
MAXIMUM PEAK FLOW			14	Aug 14	a206	Dec 19, 1978
MAXIMUM PEAK STAGE			6.17	Aug 14	6.87	Jul 30, 1997
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Jul 9, 1989
ANNUAL RUNOFF (AC-FT)	152		290		1,670	
10 PERCENT EXCEEDS	0.56		0.93		6.2	
50 PERCENT EXCEEDS	0.00		0.08		0.86	
90 PERCENT EXCEEDS	0.00		0.00		0.07	

a From rating curve extended above 40 ft^3/s.
e Estimated

08390500 RIO HONDO AT DIAMOND A RANCH, NEAR ROSWELL, NM

LOCATION.--33°20'57", long 104°51'05", in NE ¼ NE ¼ 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. 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 and 30, 1904, and July 25, 1905.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	151	0.00	0.00	0.00	26	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	6.3	0.00	0.00	0.00	0.17	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	7.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	131	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	194	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.3	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.2	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.11	0.00	1.4	0.00	0.00	0.00	0.00	0.00	329	0.00	0.00
26	0.00	0.21	0.00	1.4	0.00	0.00	0.00	0.00	0.00	70	0.00	0.00
27	0.00	0.00	0.00	1.0	0.00	0.00	0.00	0.00	0.00	31	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	31.25	0.32	0.00	3.83	0.00	0.12	157.30	0.00	0.00	440.00	576.67	0.00
MEAN	1.01	0.01	0.00	0.12	0.00	0.00	5.24	0.00	0.00	14.2	18.6	0.00
MAX	23	0.21	0.00	1.4	0.00	0.12	151	0.00	0.00	329	194	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	62	0.6	0.00	7.6	0.00	0.2	312	0.00	0.00	873	1,140	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	23.3	15.4	18.1	15.5	11.7	12.3	24.1	26.7	22.9	24.2	35.7	46.8
MAX	458	199	222	160	97.5	153	199	519	334	163	241	1,090
(WY)	(1942)	(1942)	(1979)	(1985)	(1987)	(1987)	(1987)	(1941)	(1986)	(1955)	(1984)	(1941)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1941)	(1949)	(1940)	(1952)	(1940)	(1950)	(1946)	(1951)	(1951)	(1975)	(1960)	(1943)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	35.99		1,209.49			
ANNUAL MEAN	0.10		3.30		23.1	
HIGHEST ANNUAL MEAN					181	1941
LOWEST ANNUAL MEAN					0.02	2003
HIGHEST DAILY MEAN	23	Oct 7	329	Jul 25	8,380	Sep 22, 1941
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1939
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 5	0.00	Oct 10	0.00	Oct 1, 1939
MAXIMUM PEAK FLOW			1,990	Jul 25	a54,800	Jun 18, 1965
MAXIMUM PEAK STAGE			20.53	Jul 25	b28.78	Sep 22, 1941
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Oct 1, 1939
ANNUAL RUNOFF (AC-FT)	71		2,400		16,740	
10 PERCENT EXCEEDS	0.00		0.00		57	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

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 ¼ SE ¼ NE ¼ 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 ¼ SE ¼ NE ¼ sec.16, T.12 S., R.22 E., at left end of Rocky Dam on Rocky Arroyo, and 14 mi southwest of Roswell.

DRAINAGE AREA.--1,027 mi^2; Rio Hondo, 963 mi^2; Rocky Arroyo, 64 mi^2.

PERIOD OF RECORD.--July 1963 to current year (prior to October 1965, monthend contents only). Prior to October 1966, contents at 0800 hours.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Two Rivers Reservoir, completed July 16, 1963, is formed by earthfill dams on Rio Hondo, which forms Rio Hondo Reservoir, and on Rocky Arroyo, which forms Rocky Arroyo Reservoir. Above elevation 3,980.0 ft, the pools of the two reservoirs combine to form Two Rivers Reservoir with a total capacity of 163,800 acre-ft, at elevation 4,032.0 ft, crest of ungated spillway. Capacity by original survey was 167,900 acre-ft. Capacity of Rio Hondo Reservoir, 142 acre-ft, from capacity table dated Jan. 1990, between elevations 3,957.0 ft, sill of outlet gate, and 3,980.0 ft. Capacity of Rocky Arroyo Reservoir, 12,860 acre-ft, from capacity table dated January 1990, between elevations 3,945.0 ft, 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.

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, 167 acre-ft on July 25; Rocky Arroyo Reservoir, no storage during year.

08390800 RIO HONDO BELOW DIAMOND A DAM, NEAR ROSWELL, NM

LOCATION.--Lat 33°18'05", long 104°43'12", in NE ¼ SE ¼ NE ¼ 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 fair except for those estimated, which are poor. Diversions and ground-water withdrawals for irrigation of about 6,500 acres, 1959 determination, upstream from station. This record represents the outflow from Two Rivers Reservoir through Diamond A Dam 0.1 mi upstream; flow from reservoir can also be discharged into Rocky Arroyo through Rocky Dam (see REMARKS for station 08390600).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	9.4	0.00	0.00	0.00	15	e0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	62	0.00	0.00	0.00	8.0	e0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	3.5	0.00	0.00	0.00	0.17	e0.00
7	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
8	9.6	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00	e0.00
9	0.42	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	e0.00
10	5.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
11	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	e0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	86	e0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130	e0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39	e0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10	e0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45	e0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50	e0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37	e0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15	e0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.7	e0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e1.0	e0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81	e0.00	e0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	103	e0.00	e0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18	e0.00	e0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.0	e0.00	e0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	e0.00	e0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.08	e0.00	e0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	e0.00	---
TOTAL	30.12	0.00	0.00	0.00	0.00	0.00	75.79	0.00	0.00	208.28	442.87	0.00
MEAN	0.97	0.00	0.00	0.00	0.00	0.00	2.53	0.00	0.00	6.72	14.3	0.00
MAX	14	0.00	0.00	0.00	0.00	0.00	62	0.00	0.00	103	130	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	60	0.00	0.00	0.00	0.00	0.00	150	0.00	0.00	413	878	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	11.7	10.0	13.1	13.8	11.8	12.3	17.8	14.1	7.75	6.67	22.0	21.5
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1967)	(1971)	(1974)	(1975)	(1973)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	30.86		757.06			
ANNUAL MEAN	0.08		2.07		13.5	
HIGHEST ANNUAL MEAN					85.6	1987
LOWEST ANNUAL MEAN					0.00	2000
HIGHEST DAILY MEAN	14	Oct 7	130	Aug 14	459	Sep 8, 1965
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1963
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 12	0.00	Oct 1, 1963
MAXIMUM PEAK FLOW			357	Jul 26	659	Jul 29, 1965
MAXIMUM PEAK STAGE			3.65	Jul 26	4.91	Jul 29, 1965
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Oct 1, 1963
ANNUAL RUNOFF (AC-FT)	61		1,500		9,810	
10 PERCENT EXCEEDS	0.00		0.00		47	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

08393610 RIO HONDO NEAR ROSWELL, NM

LOCATION.--Lat 33°24'30", long 104°28'18", in NE ¼ NE ¼ NM ¼ sec.35, T.10 S., R.24 E., Chaves County, Hydrologic Unit 13060008, on right bank 0.25 mi upstream from Red Bridge Road, 0.60 mi upstream from Berrendo Creek, and 1.1 mi north on State Road 265 (intersection of Red Bridge Road and U.S. Highway 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 those estimated, which are poor. Flow regulated by Two Rivers Reservoir (08390600) 25.0 mi upstream. Diversions and ground-water withdrawals for irrigation upstream from station. Several observations of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	e3.4	e2.6	2.9	2.9	2.8	3.4	3.4	3.1	2.4	2.5	2.4
2	3.9	e3.4	2.9	3.0	2.9	2.8	3.6	3.3	3.4	2.5	2.5	2.4
3	4.0	e3.4	2.7	2.9	2.9	2.8	19	3.1	3.5	2.6	2.6	2.5
4	3.9	e3.3	2.6	3.0	2.8	4.9	91	3.0	3.8	2.9	2.6	2.5
5	3.3	e3.4	2.6	3.0	2.9	2.9	15	2.8	3.8	2.4	7.1	2.4
6	3.1	e3.3	2.7	3.1	2.9	2.8	7.3	2.7	4.1	2.2	2.8	2.4
7	3.3	e3.2	2.6	3.1	3.0	2.8	6.5	2.7	3.5	2.2	2.7	2.4
8	3.7	e3.2	2.5	3.1	3.0	2.8	7.8	2.7	3.6	2.2	2.7	2.5
9	3.4	e3.3	2.6	3.0	2.9	2.8	17	2.7	3.2	2.2	2.7	2.5
10	3.5	e3.2	2.6	3.0	3.0	2.8	6.8	2.7	2.8	3.0	2.7	2.4
11	3.4	e3.2	2.7	3.0	3.2	2.8	7.0	2.7	2.9	2.0	2.7	2.5
12	3.4	e3.1	2.6	3.0	3.3	2.8	5.5	2.6	2.9	2.0	2.8	2.7
13	3.4	e3.2	2.8	3.0	3.0	3.0	5.9	2.5	2.7	2.0	6.2	2.5
14	3.4	e3.1	2.7	3.0	3.0	2.9	5.2	2.5	2.8	2.2	21	2.7
15	e3.7	e3.1	2.7	3.0	3.0	2.9	5.4	2.5	2.9	2.3	14	2.7
16	e3.7	e3.0	3.0	3.0	3.2	2.9	5.6	2.5	2.7	2.4	3.3	2.8
17	e3.8	e3.1	2.9	3.0	3.3	3.0	5.6	2.4	2.6	2.3	2.4	2.9
18	e3.8	e3.1	3.0	2.9	3.0	3.0	5.6	2.4	2.7	2.3	5.0	2.9
19	e3.9	e3.0	3.0	2.9	3.0	3.0	4.8	3.5	2.4	2.5	6.4	3.0
20	e4.1	e3.0	2.8	3.1	3.1	3.1	4.5	2.4	2.3	2.8	3.4	4.2
21	e4.2	e3.0	2.7	3.2	3.2	3.1	4.4	2.3	2.4	2.6	2.1	3.0
22	e4.2	e3.0	2.8	3.3	3.1	3.1	4.3	2.1	2.7	2.6	1.9	3.0
23	e3.7	e2.9	2.7	3.0	5.4	3.2	4.3	2.1	2.4	2.6	1.9	3.1
24	e3.6	e3.0	2.8	3.0	11	3.1	3.6	2.7	2.4	47	2.0	3.3
25	e3.6	e3.0	2.8	3.0	3.2	3.3	3.4	3.0	2.4	19	2.0	35
26	e3.6	e2.9	2.8	3.1	2.9	3.2	3.4	3.2	2.3	14	2.1	13
27	e3.5	e3.0	2.8	3.0	2.9	3.3	3.3	5.5	4.5	3.8	2.2	4.5
28	e3.5	e2.9	2.8	3.0	2.8	3.3	3.4	2.9	16	2.3	2.4	3.1
29	e3.5	e2.8	2.8	3.0	2.8	3.3	3.4	2.8	2.7	2.1	2.4	8.7
30	e3.5	e2.7	2.8	3.0	---	3.3	3.4	2.8	2.3	2.2	2.3	14
31	e3.5	---	2.9	2.9	---	3.3	---	2.9	---	2.2	2.4	---
TOTAL	113.1	93.2	85.3	93.5	97.6	95.1	269.4	87.4	101.8	147.8	121.8	144.0
MEAN	3.65	3.11	2.75	3.02	3.37	3.07	8.98	2.82	3.39	4.77	3.93	4.80
MAX	4.2	3.4	3.0	3.3	11	4.9	91	5.5	16	47	21	35
MIN	3.1	2.7	2.5	2.9	2.8	2.8	3.3	2.1	2.3	2.0	1.9	2.4
AC-FT	224	185	169	185	194	189	534	173	202	293	242	286

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)

MEAN	7.41	7.30	7.17	8.22	5.72	5.96	6.39	7.97	7.81	6.31	7.02	5.19
MAX	13.7	12.2	10.5	10.7	9.52	11.2	8.98	28.0	16.5	13.8	23.1	7.49
(WY)	(1999)	(2001)	(2002)	(2002)	(2001)	(2001)	(2004)	(1999)	(1997)	(1999)	(1997)	(2002)
MIN	3.01	3.11	2.75	3.02	3.37	3.07	4.01	2.82	3.39	4.01	3.24	3.70
(WY)	(2003)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2004)	(2004)	(2003)	(1999)	(1998)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1997 - 2004	
ANNUAL TOTAL	1,540.38		1,450.0			
ANNUAL MEAN	4.22		3.96		6.57	
HIGHEST ANNUAL MEAN					9.58	1999
LOWEST ANNUAL MEAN					3.96	2004
HIGHEST DAILY MEAN	25	May 25	91	Apr 4	516	May 1, 1999
LOWEST DAILY MEAN	0.88	Jun 4	1.9	Aug 22	0.88	Jun 4, 2003
ANNUAL SEVEN-DAY MINIMUM	2.3	Jun 1	2.0	Aug 21	1.7	Aug 26, 1999
MAXIMUM PEAK FLOW			597	Jul 24	6,390	May 1, 1999
MAXIMUM PEAK STAGE			10.32	Jul 24	15.96	May 1, 1999
INSTANTANEOUS LOW FLOW			1.8	Aug 23	0.42	Jun 3, 2003
ANNUAL RUNOFF (AC-FT)	3,060		2,880		4,760	
10 PERCENT EXCEEDS	6.0		4.5		10	
50 PERCENT EXCEEDS	3.9		3.0		4.6	
90 PERCENT EXCEEDS	2.8		2.4		2.8	

e Estimated

08394024 PECOS RIVER NORTH BOUNDARY (BLM WETLANDS) NEAR DEXTER, NM

LOCATION.--Lat 33°19'02", long 104°21'40", in NW ¼ SW ¼ SE ¼ sec.36, T.11 S., R.25 E., Chaves County, Hydrologic Unit 13060007, on left bank at BLM wetlands, 9 mi downstream from bridge on U.S. Highway 380, 14 mi north of Dexter.

DRAINAGE AREA.--14,280 mi^2, approximately.

PERIOD OF RECORD.--November 2003 to September 2004.

GAGE.--Water-stage recorder. Elevation of gage is 3,430 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for those estimated, which are poor. Flow regulated by Lake Sumner (station 08384000), approximately 140 mi upstream, and Santa Rosa Lake (station 08382810), approximately 192 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,240 ft^3/s, Sept. 26, 2004, gage height, 11.03 ft; minimum, 10 ft^3/s, June 24, 2004, gage height, 4.36 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	33	33	47	47	63	51	60	27	138	30	29
2	---	34	34	55	46	57	51	60	25	98	26	28
3	---	34	36	57	47	54	63	60	25	81	20	25
4	---	33	36	55	47	54	633	57	25	68	17	27
5	---	35	36	53	47	175	595	58	26	49	22	28
6	---	36	36	51	47	1,070	367	55	26	40	137	26
7	---	33	37	49	46	1,240	232	55	24	34	89	22
8	---	33	37	50	45	1,340	191	53	23	29	44	20
9	---	32	37	52	45	1,350	158	53	22	27	48	19
10	---	31	38	51	48	1,340	132	50	20	30	69	18
11	---	31	40	53	47	1,370	168	50	18	88	63	18
12	---	33	41	53	48	880	182	50	17	47	73	17
13	---	30	41	53	50	310	136	46	16	24	99	15
14	---	30	40	52	51	216	112	46	15	19	81	14
15	---	29	41	54	51	177	102	45	15	16	64	13
16	---	28	39	49	53	164	87	43	15	14	47	13
17	---	28	45	50	50	137	84	41	15	13	41	12
18	---	27	45	51	53	118	76	39	14	12	38	13
19	---	26	47	51	50	106	71	37	15	11	32	17
20	---	26	48	51	47	98	67	36	15	11	22	261
21	---	26	49	50	46	88	63	36	14	11	19	877
22	---	25	50	50	53	86	59	34	13	11	122	1,040
23	---	24	50	49	60	88	57	31	13	11	262	1,230
24	48	24	50	52	68	87	58	30	11	15	424	1,390
25	44	24	50	51	81	82	60	30	11	45	149	1,570
26	40	27	50	50	89	75	60	31	12	104	95	2,870
27	38	26	50	52	77	67	62	34	35	188	75	2,330
28	36	28	50	50	85	60	62	36	91	113	55	1,890
29	35	30	47	49	74	56	62	34	299	65	45	1,860
30	34	32	44	48	---	54	59	30	166	47	38	1,830
31	32	---	45	48	---	52	---	30	---	36	33	---
TOTAL	---	888	1,322	1,586	1,598	11,114	4,160	1,350	1,063	1,495	2,379	17,522
MEAN	---	29.6	42.6	51.2	55.1	359	139	43.5	35.4	48.2	76.7	584
MAX	36	50	57	89	1,370	633	60	299	188	424	2,870	
MIN	24	33	47	45	52	51	30	11	11	17	12	
AC-FT	---	1,760	2,620	3,150	3,170	22,040	8,250	2,680	2,110	2,970	4,720	34,750

08394033 PECOS RIVER SOUTH BOUNDARY (BLM WETLANDS) NEAR DEXTER, NM

LOCATION.--Lat 33°16'08", long 104°21'15", in NW $^1/_4$ NW $^1/_4$ sec.21, T.12 S., R.26 E., Chaves County, Hydrologic Unit 13060007, on left bank at BLM wetlands, 14 mi downstream from bridge on U.S. Highway 380, 9 mi north of Dexter.

DRAINAGE AREA.--14,285 mi^2, approximately.

PERIOD OF RECORD.--November 2003 to September 2004.

GAGE.--Water-stage recorder. Elevation of gage is 3,438 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for those estimated, which are poor. Flow regulated by Lake Sumner (station 08384000), approximately 150 mi upstream, and Santa Rosa Lake (station 08382810), approximately 200 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,340 ft^3/s, Sept. 26, 2004, gage height, 10.15 ft; minimum, 15 ft^3/s, July 17, 2004, gage height, 4.02 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	39	47	65	65	e85	64	77	39	165	e35	34
2	---	40	49	69	65	e80	64	78	36	116	e31	32
3	---	39	50	74	66	e75	73	78	37	95	e27	30
4	---	39	52	72	e66	e75	801	75	37	e81	e23	31
5	---	41	52	70	e66	246	844	76	37	e61	e27	34
6	---	45	52	68	e66	1,360	441	73	37	e50	e159	32
7	---	42	52	66	e65	1,490	254	72	35	e41	e108	28
8	---	42	53	66	e64	1,600	218	71	32	e35	e54	26
9	---	42	53	69	e64	1,620	184	70	32	e33	e60	25
10	---	42	55	68	e67	1,590	147	67	28	e35	e82	23
11	---	41	55	69	e67	1,580	187	66	26	e104	e76	23
12	---	41	58	70	e68	1,070	219	67	24	e59	e86	23
13	---	42	57	69	e69	319	156	62	23	e29	e118	21
14	---	41	57	69	e70	267	124	61	22	e25	e95	21
15	---	42	57	71	e70	213	109	61	21	e22	e77	20
16	---	41	55	68	e75	177	95	60	20	e20	e57	19
17	---	40	60	67	e69	149	91	57	20	e19	e50	18
18	---	39	61	69	e75	125	85	55	19	e18	e45	17
19	---	39	63	68	e69	112	80	52	20	e16	e38	17
20	---	38	64	68	e67	104	76	52	21	e16	e28	256
21	---	38	65	67	e65	94	73	52	20	e16	e26	1,010
22	---	37	66	66	e75	90	70	50	19	e16	e143	1,140
23	---	37	66	66	e85	92	67	47	19	e16	e289	1,280
24	54	37	66	68	e90	94	67	44	17	e21	e462	1,490
25	51	37	66	68	e100	89	70	43	17	e56	e170	1,680
26	48	40	66	66	e119	83	71	44	19	e124	e113	2,920
27	46	40	66	67	e107	76	75	49	43	e212	e89	2,720
28	44	42	66	66	e115	71	76	52	108	e133	e67	2,090
29	42	43	64	67	e104	68	78	51	354	e78	e55	1,890
30	40	45	61	66	---	66	76	45	208	e57	46	1,920
31	39	---	62	66	---	64	---	44	---	e46	39	---
TOTAL	---	1,211	1,816	2,108	2,213	13,224	5,035	1,851	1,390	1,815	2,775	18,870
MEAN	---	40.4	58.6	68.0	76.3	427	168	59.7	46.3	58.5	89.5	629
MAX	45	66	74	119	1,620	844	78	354	212	462	2,920	
MIN	37	47	65	64	64	64	43	17	16	23	17	
AC-FT	---	2,400	3,600	4,180	4,390	26,230	9,990	3,670	2,760	3,600	5,500	37,430

e Estimated

08395500 PECOS RIVER NEAR LAKE ARTHUR, NM

LOCATION.--Lat 32°59'21", long 104°19'17", in SW ¼ NE ¼ 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 those estimated, which are poor. Flow regulated by Lake Sumner (station 08384000), 180 mi upstream, since Aug. 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	79	50	73	95	132	89	85	e46	e193	55	e42
2	22	77	50	75	94	125	88	85	e44	e146	50	38
3	27	75	47	78	94	121	95	84	e42	e130	47	35
4	32	72	48	82	95	124	316	e82	e41	e101	49	34
5	38	70	49	81	98	124	983	e82	e40	e85	46	32
6	47	68	49	79	98	523	779	e80	e40	e73	45	33
7	68	70	50	79	98	947	435	e82	e37	e60	102	32
8	299	67	50	78	98	991	284	e79	e36	e40	97	31
9	662	64	52	77	97	1,020	238	e77	e36	e42	64	29
10	869	62	59	80	96	1,030	196	e76	e35	e38	52	27
11	619	61	63	81	97	1,040	173	e77	e32	e33	69	26
12	476	60	66	83	101	1,030	201	e73	e31	e34	66	25
13	328	61	68	86	100	589	200	e69	e30	e70	76	25
14	263	65	69	86	103	402	167	e69	e28	e49	93	24
15	226	60	70	87	103	300	148	e66	e27	e34	233	23
16	204	59	68	88	103	244	136	e65	e26	e23	133	22
17	189	57	69	89	104	202	123	e65	e23	e22	70	22
18	174	54	68	89	103	181	118	e62	e21	e22	62	21
19	163	52	67	92	102	165	111	e61	e20	e22	61	21
20	159	49	69	92	97	156	105	e58	e21	e34	59	21
21	158	47	71	93	95	147	101	e55	e21	21	58	437
22	149	47	71	92	94	138	95	e54	e21	21	56	790
23	142	46	72	92	98	136	91	e51	e20	21	105	883
24	135	45	72	93	115	137	89	e47	e20	21	200	951
25	124	45	73	94	132	135	89	e44	e21	27	348	1,030
26	118	46	73	95	143	131	88	e46	e20	221	150	1,220
27	111	46	73	93	141	117	87	e47	e19	153	101	1,640
28	101	47	74	95	135	102	87	e48	e20	171	86	1,750
29	93	47	73	96	136	96	87	e48	e28	124	e80	1,540
30	88	49	72	96	---	92	85	e48	e210	86	e60	1,510
31	82	---	71	94	---	90	---	e48	---	67	e50	---
TOTAL	6,184	1,747	1,976	2,688	3,065	10,767	5,884	2,013	1,056	2,184	2,823	12,314
MEAN	199	58.2	63.7	86.7	106	347	196	64.9	35.2	70.5	91.1	410
MAX	869	79	74	96	143	1,040	983	85	210	221	348	1,750
MIN	18	45	47	73	94	90	85	44	19	21	45	21
AC-FT	12,270	3,470	3,920	5,330	6,080	21,360	11,670	3,990	2,090	4,330	5,600	24,420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2004, BY WATER YEAR (WY)

MEAN	238	124	94.6	94.3	90.7	185	212	307	321	324	269	351
MAX	3,701	983	546	451	446	682	1,308	3,673	2,436	1,521	913	5,407
(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	0.42	1.30
(WY)	(1965)	(1968)	(1967)	(1965)	(1965)	(1967)	(1967)	(1975)	(1977)	(1954)	(1964)	(1964)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1938 - 2004	
ANNUAL TOTAL	33,470		52,701			
ANNUAL MEAN	91.7		144		218	
HIGHEST ANNUAL MEAN					1,314	1941
LOWEST ANNUAL MEAN					62.2	1964
HIGHEST DAILY MEAN	1,230	Jun 28	1,750	Sep 28	39,800	Sep 24, 1941
LOWEST DAILY MEAN	12	Jun 16	18	Oct 1	0.00	Aug 21, 1947
ANNUAL SEVEN-DAY MINIMUM	15	Jun 14	20	Jun 22	0.10	Jul 26, 1954
MAXIMUM PEAK FLOW			1,860	Sep 28	a49,600	Sep 24, 1941
MAXIMUM PEAK STAGE			9.74	Sep 28	21.90	Sep 24, 1941
INSTANTANEOUS LOW FLOW			16	Oct 1	b0.00	Oct 1, 1946
ANNUAL RUNOFF (AC-FT)	66,390		104,500		158,000	
10 PERCENT EXCEEDS	126		228		652	
50 PERCENT EXCEEDS	53		78		73	
90 PERCENT EXCEEDS	17		27		16	

a From rating curve extended above 16,000 ft^3/s, on basis of slope-area measurement at gage height 21.77 ft.
b Also occurred in 1947, 1954, 1962, and 1964.
e Estimated

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 August 22-31, 1934, and October 1936 to April 1937, published in WSP 763 and 828, respectively, are not reliable and should not be used. Prior to February 1936, published as "near Dayton."

REVISED RECORDS.--WSP 1312 and 1512: 1913, 1915, 1917-18(M), 1920, 1923, 1931-36. WSP 1712: 1906(M), 1908-11(M), 1919, 1921- 23(M), 1929, 1931-32(M), 1935-36(M), 1937, 1939(M), 1941(M). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,291.92 ft above National Geodetic Vertical Datum of 1929 (Bureau of Reclamation bench mark). See WSP 1923 or 2123 for history of changes prior to Apr. 5, 1941. Apr. 5, 1941, to Apr. 2, 1981, water-stage recorder at site 250 ft downstream at same datum.

REMARKS.--Water-discharge records good except for those estimated, which are fair. Considerable flow regulation by Lake Sumner (station 08384000) since Aug. 1937, and by Two Rivers Reservoir (station 08390600) since July 1963. Diversions and ground-water withdrawals for irrigation of about 154,000 acres, 1959 determination, upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since at least 1893 occurred Oct. 2, 1904, discharge not determined; the peak inflow to Lake McMillan, which includes Rio Penasco and Fourmile Draw, was estimated at 82,000 ft^3/s. The second highest flood occurred July 25, 1905, discharge downstream from Rio Penasco, 50,300 ft^3/s, based on gain in storage and spill from Lake McMillan. The floods in Aug. 1893 and Oct. 1904 damaged McMillan Dam and washed out Avalon Dam.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	45	52	70	90	126	80	78	47	182	53	42
2	11	45	55	71	e89	111	78	77	46	134	45	39
3	11	44	53	73	e89	103	133	78	44	115	40	35
4	12	44	51	78	88	102	927	78	43	90	36	33
5	12	43	51	79	89	99	954	77	42	77	39	31
6	12	44	52	78	90	256	e968	77	41	67	31	28
7	137	44	53	78	90	865	e513	77	39	55	41	30
8	408	49	53	79	90	969	e286	75	38	47	103	28
9	290	47	52	79	88	1,040	236	74	39	42	71	26
10	953	47	57	78	87	1,080	197	73	37	37	50	24
11	474	48	64	82	89	1,080	174	75	35	32	50	24
12	364	47	66	83	93	1,070	172	70	33	35	64	23
13	205	48	e67	84	93	742	203	68	32	70	73	24
14	147	52	e68	85	94	375	176	67	29	49	75	24
15	122	54	e66	86	96	267	151	65	30	33	142	24
16	105	52	e68	88	96	239	e138	64	28	24	188	24
17	95	53	69	88	95	217	e125	64	26	23	81	24
18	88	51	69	89	96	210	e118	62	25	23	60	24
19	81	51	68	90	94	181	e111	60	25	23	52	24
20	77	50	68	91	93	165	100	58	25	23	49	24
21	77	50	71	91	88	153	95	56	25	23	43	152
22	76	49	72	90	86	144	90	55	23	23	35	706
23	72	47	73	90	86	138	85	52	25	23	32	970
24	69	46	73	91	103	136	81	49	24	22	150	1,070
25	62	46	73	91	114	135	79	47	23	38	221	e1,180
26	59	47	74	91	142	130	79	49	23	118	201	1,220
27	58	46	75	91	141	123	78	48	23	161	104	e1,220
28	56	47	73	89	135	99	79	50	23	169	82	1,210
29	51	48	73	92	119	92	80	50	35	134	69	e1,220
30	48	50	73	91	---	87	79	50	216	90	57	1,220
31	46	---	71	91	---	83	---	50	---	68	48	---
TOTAL	4,289	1,434	2,003	2,627	2,843	10,617	6,665	1,973	1,144	2,050	2,385	10,723
MEAN	138	47.8	64.6	84.7	98.0	342	222	63.6	38.1	66.1	76.9	357
MAX	953	54	75	92	142	1,080	968	78	216	182	221	1,220
MIN	11	43	51	70	86	83	78	47	23	22	31	23
AC-FT	8,510	2,840	3,970	5,210	5,640	21,060	13,220	3,910	2,270	4,070	4,730	21,270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2004, BY WATER YEAR (WY)

MEAN	241	132	105	104	100	190	213	343	365	321	258	348
MAX	4,203	1,240	614	499	504	768	1,292	3,834	3,495	1,453	880	5,704
(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	0.77	0.06	0.27
(WY)	(1965)	(1968)	(1967)	(1965)	(1972)	(1981)	(1967)	(1975)	(1977)	(1954)	(1964)	(1964)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1937 - 2004	
ANNUAL TOTAL	28,351.5		48,753			
ANNUAL MEAN	77.7		133		227	
HIGHEST ANNUAL MEAN					1,378	1941
LOWEST ANNUAL MEAN					64.8	1964
HIGHEST DAILY MEAN	995	Jun 28	1,220	Sep 26	44,300	Sep 25, 1941
LOWEST DAILY MEAN	6.4	Aug 18	11	Oct 1	0.00	Aug 14, 1946
ANNUAL SEVEN-DAY MINIMUM	7.9	Aug 13	23	Jul 18	0.00	Aug 14, 1946
MAXIMUM PEAK FLOW			1,250	Apr 6	a51,500	May 30, 1937
MAXIMUM PEAK STAGE			9.79	Sep 28	14.70	May 30, 1937
INSTANTANEOUS LOW FLOW			11	Oct 1	0.00	Oct 1, 1934
ANNUAL RUNOFF (AC-FT)	56,240		96,700		164,500	
10 PERCENT EXCEEDS	103		204		645	
50 PERCENT EXCEEDS	49		73		78	
90 PERCENT EXCEEDS	12		25		17	

a From a slope-area measurement made at a site 15 mi upstream.
e Estimated

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 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
JAN													
15...	1440	83	675	10.7	106	8.3	7,770	10.0	8.5	2,300	642	172	7.72
MAR													
18...	0845	233	676	8.2	94	8.1	4,730	17.5	15.0	1,900	576	109	5.74
MAY													
21...	0750	54	696	7.1	94	7.9	10,200	23.5	23.0	2,900	766	230	12.3
JUL													
30...	0840	85	683	6.6	90	7.9	3,400	23.0	25.0	1,200	361	67.7	5.76

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
JAN													
15...	9	1,030	143	170	2	1,670	1.0	11.6	1,720	5,340	.30	.40	.04
MAR													
18...	5	531	114	137	--	782	.9	10.2	1,540		--	--	--
MAY													
21...	12	1,470	114	138	--	2,440	1.1	12.0	2,260	7,250	--	--	--
JUL													
30...	4	312	67	80	--	512	.7	9.5	1,090		--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)
JAN													
15...	.08	1.00	.030	<.01	<.02	.02	E68	30	<6	<.80	<2	24	<.24
MAR													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
30...	--	--	--	--	--	--	E1,100	E6,000	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recoverable, ug/L (71900)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd ug/L (01147)
JAN													
15...	326	<.16	<.8	1.39	6.7	<32	<.32	13.0	<.02	3.0	11.6	<3	<3
MAR													
18...	174	--	--	--	--	<19	--	--	<.02	--	--	--	<3
MAY													
21...	552	--	--	--	--	<32	--	--	<.02	--	--	--	<3
JUL													
30...	202	--	--	--	--	<19	--	--	.03	--	--	--	<3

08396500 PECOS RIVER NEAR ARTESIA, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Ra-226, water, fltrd, radon method pCi/L (09511)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)
JAN						
15...	<.8	4.4	.40	6.71	45	51
MAR						
18...	--	--	--	--	14	2,290
MAY						
21...	--	--	--	--	80	32
JUL						
30...	--	--	--	--	99	3,670

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	2,4-D methyl ester, water, fltrd, ug/L (50470)	2,4-D water, fltrd, ug/L (39732)	2,4-DB water, fltrd 0.7u GF ug/L (38746)	2,6-Di-ethyl-aniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	CEAT, water, fltrd, ug/L (04038)	OIET, water, fltrd, ug/L (50355)	3-Hydroxy carbo-furan, wat flt 0.7u GF ug/L (49308)	3-Keto-carbo-furan, water, fltrd, ug/L (50295)	Aceto-chlor, water, fltrd, ug/L (49260)	Aci-fluor-fen, water, fltrd 0.7u GF ug/L (49315)	Ala-chlor, water, fltrd, ug/L (46342)
JAN													
15...	1440	--	--	--	<.006	E.005	--	--	--	--	<.006	--	<.005
MAR													
18...	0845	--	--	--	<.006	E.005	--	--	--	--	<.006	--	<.005
MAY													
21...	0750	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
30...	0840	<.009	<.02	<.02	--	<.03	<.01	<.008	<.006	<.014	--	<.007	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Aldi-carb sulfone water, fltrd 0.7u GF ug/L (49313)	Aldi-carb sulf-oxide, wat flt 0.7u GF ug/L (49314)	Aldi-carb, water, fltrd 0.7u GF ug/L (49312)	alpha-HCH, water, fltrd, ug/L (34253)	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl, water, fltrd 0.7u GF ug/L (82686)	Bendio-carb, water, fltrd, ug/L (50299)	Ben-flur-alin, water, fltrd 0.7u GF ug/L (82673)	Benomyl water, fltrd, ug/L (50300)	Bensul-furon, water, fltrd, ug/L (61693)	Ben-tazon, water, fltrd 0.7u GF ug/L (38711)	Broma-cil, water, fltrd, ug/L (04029)	Brom-oxynil, water, fltrd 0.7u GF ug/L (49311)
JAN													
15...	--	--	--	<.005	E.007	<.050	--	<.010	--	--	--	--	--
MAR													
18...	--	--	--	<.005	E.006	<.050	--	<.010	--	--	--	--	--
MAY													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
30...	<.02	<.008	<.04	--	.017	--	<.03	--	<.004	<.02	<.01	<.03	<.02

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Butyl-ate, water, fltrd, ug/L (04028)	Caf-feine, water, fltrd, ug/L (50305)	Car-baryl, water, fltrd 0.7u GF ug/L (49310)	Car-baryl, water, fltrd 0.7u GF ug/L (82680)	Carbo-furan, water, fltrd 0.7u GF ug/L (49309)	Carbo-furan, water, fltrd 0.7u GF ug/L (82674)	Chlor-amben methyl ester, water, fltrd, ug/L (61188)	Chlori-muron, water, fltrd, ug/L (50306)	Chloro-di-amino-s-tri-azine, wat flt ug/L (04039)	Chloro-thalo-nil, water, fltrd 0.7u GF ug/L (49306)	cis-Per-methrin water fltrd 0.7u GF ug/L (82687)	Clopyr-alid, water, fltrd 0.7u GF ug/L (49305)	Cyana-zine, water, fltrd, ug/L (04041)
JAN													
15...	<.004	--	--	<.041	--	<.020	--	--	--	--	<.006	--	<.018
MAR													
18...	<.004	--	--	<.041	--	E.664	--	--	--	--	<.006	--	<.018
MAY													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
30...	--	.0150	<.03	--	<.006	--	<.02	<.010	<.04	<.04	--	.10	--

08396500 PECOS RIVER NEAR ARTESIA, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Cyclo-ate, water, fltrd, ug/L (04031)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf-inyl fipro-nil, water, fltrd, ug/L (62170)	Diazi-non, water, fltrd, ug/L (39572)	Dicamba water fltrd 0.7u GF ug/L (38442)	Di-chlor-prop, water, fltrd 0.7u GF ug/L (49302)	Diel-drin, water, fltrd, ug/L (39381)	Dinoseb water, fltrd 0.7u GF ug/L (49301)	Diphen-amid, water, fltrd, ug/L (04033)	Disul-foton, water, fltrd 0.7u GF ug/L (82677)	Diuron, water, fltrd 0.7u GF ug/L (49300)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal-flur-alin, water, fltrd 0.7u GF ug/L (82663)
JAN													
15...	--	<.003	<.012	<.005	--	--	<.009	--	--	<.02	--	<.004	<.009
MAR													
18...	--	<.003	<.012	<.005	--	--	<.009	--	--	<.02	--	<.004	<.009
MAY													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
30...	<.01	--	--	--	<.01	<.01	--	<.01	<.03	--	<.01	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Etho-prop, water, fltrd 0.7u GF ug/L (82672)	Fenuron water, fltrd 0.7u GF ug/L (49297)	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169)	Fipro-nil sulfide water, fltrd, ug/L (62167)	Fipro-nil sulfone water, fltrd, ug/L (62168)	Fipro-nil, water, fltrd, ug/L (62166)	Flumet-sulam, water, fltrd, ug/L (61694)	Fluo-meturon water fltrd 0.7u GF ug/L (38811)	Fonofos water, fltrd, ug/L (04095)	Imaze-thapyr, water, fltrd, ug/L (50407)	Imida-cloprid water, fltrd, ug/L (61695)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (38478)
JAN													
15...	<.005	--	<.029	<.013	<.024	<.016	--	--	<.003	--	--	<.004	--
MAR													
18...	<.005	--	<.029	<.013	<.024	<.016	--	--	<.003	--	--	<.004	--
MAY													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
30...	--	<.03	--	--	--	--	<.01	M	--	<.03	<.007	--	<.01

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Linuron water fltrd 0.7u GF ug/L (82666)	Mala-thion, water, fltrd, ug/L (39532)	MCPA, water, fltrd 0.7u GF ug/L (38482)	MCPB, water, fltrd 0.7u GF ug/L (38487)	Methio-carb, water, fltrd 0.7u GF ug/L (38501)	Meth-omyl, water, fltrd 0.7u GF ug/L (49296)	Methyl para-thion, water, fltrd 0.7u GF ug/L (82667)	Metola-chlor, water, fltrd, ug/L (39415)	Metri-buzin, water, fltrd, ug/L (82630)	Metsul-furon, water, fltrd, ug/L (61697)	Moli-nate, water, fltrd 0.7u GF ug/L (82671)	N-(4-Chloro-phenyl) -N-' methyl-urea, ug/L (61692)	Naprop-amide, water, fltrd 0.7u GF ug/L (82684)
JAN													
15...	<.035	<.027	--	--	--	--	<.015	<.013	<.006	--	<.003	--	<.007
MAR													
18...	<.035	<.027	--	--	--	--	<.020	<.013	<.006	--	<.003	--	<.007
MAY													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
30...	--	--	<.02	<.01	<.008	<.004	--	--	--	<.03	--	<.02	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Neburon water, fltrd 0.7u GF ug/L (49294)	Nico-sul-furon, water, fltrd, ug/L (50364)	Norflur-azon, water, fltrd 0.7u GF ug/L (49293)	Ory-zalin, water, fltrd 0.7u GF ug/L (49292)	Oxamyl, water, fltrd 0.7u GF ug/L (38866)	p,p-' DDE, water, fltrd, ug/L (34653)	Para-thion, water, fltrd, ug/L (39542)	Peb-ulate, water, fltrd 0.7u GF ug/L (82669)	Pendi-meth-alin, water, fltrd 0.7u GF ug/L (82683)	Phorate water fltrd 0.7u GF ug/L (82664)	Prome-ton, water, fltrd, ug/L (04037)	Propy-zamide, water, fltrd 0.7u GF ug/L (82676)	Propa-chlor, water, fltrd, ug/L (04024)
JAN													
15...	--	--	--	--	--	<.003	<.010	<.004	<.022	<.011	.01	<.004	<.025
MAR													
18...	--	--	--	--	--	<.003	<.010	<.004	<.022	<.011	.01	<.004	<.025
MAY													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
30...	<.01	<.01	<.02	<.02	<.01	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Pro-panil, water, fltrd 0.7u GF ug/L (82679)	Propar-gite, water, fltrd 0.7u GF ug/L (82685)	Propham water fltrd 0.7u GF ug/L (49236)	Propi-cona-zole, water, fltrd, ug/L (50471)	Pro-poxur, water, fltrd 0.7u GF ug/L (38538)	Siduron water, fltrd, ug/L (38548)	Sima-zine, water, fltrd, ug/L (04035)	Sulfo-met-ruron, water, fltrd, ug/L (50337)	Tebu-thiuron water fltrd 0.7u GF ug/L (82670)	Terba-cil, water, fltrd 0.7u GF ug/L (82665)	Terba-cil, water, fltrd, ug/L (04032)	Terbu-fos, water, fltrd 0.7u GF ug/L (82675)	Thio-bencarb water fltrd 0.7u GF ug/L (82681)
JAN													
15...	<.011	<.02	--	--	--	--	<.005	--	<.02	<.034	--	<.02	<.010
MAR													
18...	<.011	<.02	--	--	--	--	<.005	--	<.02	<.034	--	<.02	<.010
MAY													
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
30...	--	--	<.010	<.02	<.008	<.02	--	<.009	<.006	--	<.010	--	--

08396500 PECOS RIVER NEAR ARTESIA, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Tri-allate, water, fltrd 0.7u GF ug/L (82678)	Tri-clopyr, water, fltrd 0.7u GF ug/L (49235)	Tri-flur-alin, water, fltrd 0.7u GF ug/L (82661)
JAN			
15...	<.002	--	<.009
MAR			
18...	<.002	--	E.005
MAY			
21...	--	--	--
JUL			
30...	--	.13	--

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

08397600 RIO PENASCO NEAR DUNKEN, NM

LOCATION.--Lat 32°52'55", long 105°10'40", in SE ¼ NE ¼ sec.35, T.16 S., R.17 E., Chaves County, Hydrologic Unit 13060010, located on downstream left end of bridge abutment on U.S. Highway 24, 0.1 mi south of U.S. Highway 82, and 5 mi north of Dunken.

DRAINAGE AREA.--583 mi^2, approximately.

PERIOD OF RECORD.--October 1952 to September 1999 (annual maximum only). February 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,290 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for those estimated, 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, and June 15, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 604 ft^3/s, Aug. 17, gage height, 9.47 ft; minimum, 1.0 ft^3/s, June 15.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	e8.8	14	12	e10	e9.8	e4.6	9.1	e4.5	e10	e9.7	e13
2	9.2	e7.5	14	12	e10	e9.6	e5.4	9.5	e4.2	e9.2	e9.1	e12
3	9.4	e6.0	14	11	e9.6	e10	e7.7	8.3	e3.8	e8.6	16	e11
4	9.6	e5.5	13	11	e9.4	e10	e11	8.8	e3.5	e8.2	12	e10
5	9.8	e5.2	13	12	e9.1	e9.8	e11	e9.1	e3.2	e7.1	e12	e8.7
6	12	e5.0	13	12	e9.4	e9.5	e10	e8.6	e3.1	e6.6	e11	e7.8
7	11	e5.3	13	12	e9.5	e9.1	e8.4	e8.2	e2.9	e6.2	e10	e10
8	19	e6.0	14	12	e9.8	e8.4	e7.6	e7.7	e2.8	e7.4	e9.6	e10
9	17	e6.9	16	11	10	e8.0	e6.1	e7.5	e2.7	e7.0	e10	e9.6
10	17	e7.2	18	e10	10	e7.6	e6.4	e8.0	e2.4	e17	11	e9.2
11	16	e8.2	15	9.6	10	e6.5	e7.2	e8.2	e1.8	16	e12	e9.5
12	16	e8.1	16	9.5	10	e7.4	e7.5	e7.8	e1.2	12	e13	e10
13	16	7.7	16	e8.1	9.6	e8.3	e8.4	e7.4	1.3	14	e12	e10
14	15	7.1	16	e8.4	11	e8.4	e7.8	e7.0	1.3	e13	e11	e9.3
15	15	e7.0	15	e8.0	10	e7.5	e8.9	e6.5	1.3	e12	e10	e8.6
16	15	e7.0	15	e8.4	11	e5.3	e10	e10	1.4	e11	19	e7.9
17	15	e7.5	13	e8.9	9.6	e4.7	e12	e11	1.6	e11	42	e8.9
18	e16	e8.0	14	12	9.5	e4.7	e13	e9.8	1.6	e11	17	e10
19	e15	8.3	14	11	e9.8	e4.3	e14	e9.0	1.8	e8.7	13	e11
20	e15	9.2	14	e10	e10	e5.5	e15	e8.5	2.0	16	e12	e12
21	e15	9.6	14	11	e10	e5.5	e15	e8.0	e2.3	11	e12	e13
22	e14	10	14	11	e9.8	e5.7	e12	e7.6	e2.9	e9.9	e13	e13
23	e14	11	14	11	9.9	e5.9	e11	e7.2	e3.4	e9.6	e14	e12
24	e13	11	13	11	e9.6	e5.6	e14	e6.8	e4.2	e13	e15	e13
25	e13	e11	14	11	9.7	e5.2	e8.4	e6.0	e4.4	29	e14	e14
26	13	e12	13	11	9.6	e5.5	7.6	e5.6	18	24	e15	e18
27	12	12	13	10	e9.7	e5.1	7.4	e7.0	29	27	e14	e17
28	13	13	13	e10	e9.8	e4.6	8.2	e6.7	15	17	e13	e20
29	e12	15	13	e10	10	e4.4	8.4	e6.0	11	11	e12	e18
30	e11	15	13	e10	---	e4.3	8.5	e5.1	12	12	e13	e21
31	e10	---	12	e9.6	---	e4.2	---	e4.8	---	e9.4	e25	---
TOTAL	417.0	261.1	436	324.5	285.4	210.4	282.5	240.8	150.6	384.9	431.4	357.5
MEAN	13.5	8.70	14.1	10.5	9.84	6.79	9.42	7.77	5.02	12.4	13.9	11.9
MAX	19	15	18	12	11	10	15	11	29	29	42	21
MIN	9.0	5.0	12	8.0	9.1	4.2	4.6	4.8	1.2	6.2	9.1	7.8
AC-FT	827	518	865	644	566	417	560	478	299	763	856	709

CAL YR	2003	TOTAL	4,117.61	MEAN	11.3	MAX	315	MIN	0.62	AC-FT	8,170
WTR YR	2004	TOTAL	3,782.1	MEAN	10.3	MAX	42	MIN	1.2	AC-FT	7,500

e Estimated

08397620 RIO PENASCO NEAR HOPE, NM

LOCATION.--Lat 32°50'12", long 105°03'59", in SE ¼ NE ¼ NW ¼ sec.11, T.17 S., R.18 E., Chaves County, Hydrologic Unit 13060010, 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.

DRAINAGE AREA.--675 mi^2, approximately.

PERIOD OF RECORD.--February 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,931 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good, except for those estimated, which are fair. Small diversions for irrigation upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,730 ft^3/s, June 30, 2000, gage height, 12.86 ft; mimimum, no flow many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,930 ft^3/s, Aug. 17, gage height, 10.20 ft; minimum, no flow many days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.81	0.37	0.00	0.00	0.00	0.00	e0.00	e0.05	0.24	1.8
2	0.00	0.00	0.25	0.12	0.00	0.00	0.00	0.00	e0.00	e0.00	0.10	0.00
3	0.00	0.00	0.00	0.10	0.00	0.00	1.7	0.00	e0.00	e0.00	4.8	0.00
4	0.00	0.00	0.00	0.01	0.00	0.00	113	0.00	e0.00	e0.00	1.1	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	15	e0.00	e0.00	e0.00	0.28	0.00
6	122	0.00	0.00	0.26	0.00	0.00	1.1	e0.00	e0.00	e0.00	0.03	0.00
7	140	0.00	0.21	0.51	0.00	0.00	0.00	e0.00	e0.00	e0.00	89	0.00
8	16	0.00	0.08	0.37	0.00	0.00	0.00	e0.00	e0.00	e0.00	1.8	0.00
9	8.1	0.00	0.00	0.17	0.00	0.00	0.00	e0.00	e0.00	e0.00	0.34	0.00
10	6.5	0.00	2.0	0.05	0.00	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00
11	5.6	0.00	1.1	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00
12	5.1	0.00	1.3	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00
13	4.6	0.00	1.3	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00
14	3.7	0.00	1.2	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00
15	3.5	0.00	0.98	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00
16	3.1	0.00	1.8	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.00	5.6	0.00
17	3.0	0.00	0.80	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.00	88	0.00
18	1.2	0.00	0.80	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.00	7.7	0.00
19	0.31	0.00	0.92	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.00	1.9	0.00
20	0.15	0.00	0.90	0.03	0.00	0.00	0.00	e0.00	e0.00	0.00	0.40	0.00
21	0.00	0.00	0.84	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	0.06	0.00
22	0.00	0.00	0.66	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00
23	0.00	0.00	0.66	0.09	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00
24	0.00	0.00	0.70	0.43	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00
25	0.00	0.00	0.65	0.33	0.00	0.00	0.00	e0.00	e0.00	8.3	0.00	0.00
26	0.15	0.00	0.42	0.40	0.00	0.00	0.00	e0.00	e0.00	3.3	0.00	2.1
27	0.96	0.00	0.55	0.41	0.00	0.00	0.00	e0.00	e70	0.44	0.00	0.00
28	0.83	0.00	0.67	0.26	0.00	0.00	0.00	e0.00	e22	19	0.00	1.6
29	0.79	0.00	0.93	0.00	0.00	0.00	0.00	e0.00	e1.0	4.6	0.00	0.36
30	0.26	0.57	1.9	0.00	---	0.00	0.00	e0.00	e0.20	2.9	0.00	0.46
31	0.04	---	0.75	0.00	---	0.00	---	e0.00	---	1.4	19	---
TOTAL	325.89	0.57	23.18	3.91	0.00	0.00	130.80	0.00	93.20	39.99	220.35	6.32
MEAN	10.5	0.02	0.75	0.13	0.00	0.00	4.36	0.00	3.11	1.29	7.11	0.21
MAX	140	0.57	2.0	0.51	0.00	0.00	113	0.00	70	19	89	2.1
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	646	1.1	46	7.8	0.00	0.00	259	0.00	185	79	437	13

CAL YR	2003	TOTAL	1,929.06	MEAN	5.29	MAX	589	MIN	0.00	AC-FT 3,830
WTR YR	2004	TOTAL	844.21	MEAN	2.31	MAX	140	MIN	0.00	AC-FT 1,670

e Estimated

08398500 RIO PENASCO AT DAYTON, NM

LOCATION.--Lat 32°44'36", long 104°24'49", in NE ¼ SE ¼ SE ¼ sec.18, T.18 S., R.26 E., Eddy County, Hydrologic Unit 13060010, on left bank 1.2 mi upstream from U.S. Highway 285, 1.9 mi northwest of old Dayton railway station, 5.6 mi upstream from mouth, and 7.0 mi south of Artesia. Mouth at Pecos River mile 496.4.

DRAINAGE AREA.--1,060 mi^2, approximately.

PERIOD OF RECORD.--April 1951 to February 2000, May 2000 to current year. Prior to October 1953, published as "near Dayton."

REVISED RECORDS.--WSP 1242: 1951(M). WSP 1512: 1956. WSP 1923: 1955.

GAGE.--Water-stage recorder and rock and concrete control. Elevation of gage is 3,385.19 ft above National Geodetic Vertical Datum of 1929. Prior to May 9, 1968, at site 2.4 mi downstream, at datum 44.30 ft lower. May 9, 1968, to June 12, 1975, at present site at datum 1.98 ft higher.

REMARKS.--Records fair except for those estimated, which are poor. Diversions and ground-water withdrawals for irrigation of about 3,000 acres, 1959 determination, upstream from station. No flow most of time.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of about Sept. 22, 1941, reached a stage of about 9 ft, from floodmark, previous site and datum, discharge not determined. Peak discharge at discontinued station "near Dunken" (station 08397600), about 60 mi upstream, was 70,000 ft^3/s, determined in 1956, from rating curve extended above a slope-area measurement of 36,000 ft^3/s, for peak of Oct. 6 or 7, 1954.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	21	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	58	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	2.6	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00
7	12	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
8	81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	3.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.7	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.4	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	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	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	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	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	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	0.00	0.00	0.00	32	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72	0.03	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.9	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	13	0.00	1.8	e0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	e0.00	---
TOTAL	96.30	0.00	0.00	0.00	0.00	0.00	81.82	0.00	159.90	32.67	12.90	0.00
MEAN	3.11	0.00	0.00	0.00	0.00	0.00	2.73	0.00	5.33	1.05	0.42	0.00
MAX	81	0.00	0.00	0.00	0.00	0.00	58	0.00	72	32	7.4	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	191	0.00	0.00	0.00	0.00	0.00	162	0.00	317	65	26	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

MEAN	4.66	1.38	0.00	0.00	0.00	0.00	0.08	1.15	11.3	8.10	14.3	9.75
MAX	201	72.8	0.02	0.00	0.00	0.00	2.73	41.0	528	221	328	372
(WY)	(1955)	(1984)	(1975)	(1952)	(1952)	(1952)	(2004)	(1965)	(1986)	(1968)	(1966)	(1974)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1952)	(1952)	(1952)	(1952)	(1952)	(1952)	(1951)	(1952)	(1951)	(1954)	(1951)	(1951)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL TOTAL	116.16		383.59			
ANNUAL MEAN	0.32		1.05		4.40	
HIGHEST ANNUAL MEAN					43.4	1986
LOWEST ANNUAL MEAN					0.00	1959
HIGHEST DAILY MEAN	81	Oct 8	81	Oct 8	9,490	Aug 23, 1966
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Apr 1, 1951
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 11	0.00	Apr 1, 1951
MAXIMUM PEAK FLOW			398	Jun 27	29,800	Aug 23, 1966
MAXIMUM PEAK STAGE			3.41	Jun 27	16.40	Aug 23, 1966
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Oct 1, 1993
ANNUAL RUNOFF (AC-FT)	230		761		3,180	
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

08399500 PECOS RIVER (KAISER CHANNEL) NEAR LAKEWOOD, NM

LOCATION.--Lat 32°41'22", long 104°17'53", in NW $\frac{1}{4}$ SE $\frac{1}{4}$ 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 mi 492.1.

PERIOD OF RECORD.--May 1950 to current year. Prior to October 1954, published as "Kaiser Lake-McMillan Channel."

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 those estimated, which are fair. Considerable flow regulation by Lake Sumner (station 08384000) since Aug. 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 seperate from Kaiser Channel and is not gaged.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	47	49	71	83	124	84	81	48	212	63	45
2	5.9	46	52	70	e84	116	81	79	45	163	49	39
3	5.7	45	53	72	82	108	352	79	43	148	41	34
4	6.3	45	47	76	80	104	2,050	80	41	112	34	30
5	6.7	44	48	81	80	95	951	82	40	93	38	29
6	6.0	44	50	80	82	165	1,090	80	40	81	29	26
7	67	44	51	79	e83	880	587	82	36	66	25	26
8	476	48	52	79	82	987	338	79	35	53	113	27
9	290	49	51	77	e80	1,020	265	77	36	44	88	25
10	927	46	54	75	78	1,010	232	75	34	41	60	23
11	355	46	63	77	80	1,000	203	76	31	35	44	21
12	296	46	69	80	84	1,010	187	74	30	29	72	21
13	216	45	71	81	e84	818	216	68	28	62	88	20
14	171	51	74	82	e84	385	198	69	27	61	85	19
15	142	55	73	83	e85	302	167	66	25	37	118	19
16	121	53	70	89	e84	267	148	66	26	24	227	18
17	109	52	71	89	83	240	137	65	23	18	116	16
18	102	51	70	84	90	216	123	63	22	17	71	16
19	94	48	70	83	90	194	119	62	21	15	56	16
20	88	47	68	85	89	180	110	60	22	12	53	17
21	87	46	71	85	86	167	103	57	22	150	43	60
22	87	45	73	85	82	155	97	55	20	14	35	598
23	82	44	74	84	82	148	92	53	21	13	29	727
24	80	43	75	85	93	146	86	47	21	12	118	843
25	73	42	75	85	104	147	83	45	20	29	212	912
26	66	42	75	85	126	144	82	46	39	80	245	958
27	64	42	74	84	142	137	83	47	21	212	136	1,080
28	62	42	74	84	138	112	82	48	20	175	102	1,230
29	56	44	73	85	122	99	83	48	22	172	83	1,230
30	51	45	73	85	---	93	82	49	173	119	68	1,200
31	49	---	72	84	---	88	---	50	---	82	55	---
TOTAL	4,247.6	1,387	2,015	2,524	2,642	10,657	8,511	2,008	1,032	2,381	2,596	9,325
MEAN	137	46.2	65.0	81.4	91.1	344	284	64.8	34.4	76.8	83.7	311
MAX	927	55	75	89	142	1,020	2,050	82	173	212	245	1,230
MIN	5.7	42	47	70	78	88	81	45	20	12	25	16
AC-FT	8,430	2,750	4,000	5,010	5,240	21,140	16,880	3,980	2,050	4,720	5,150	18,500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)

MEAN	137	89.7	78.5	80.7	80.8	162	148	242	242	263	239	192
MAX	695	339	272	307	332	417	489	1,220	748	886	698	800
(WY)	(1955)	(1998)	(1987)	(1987)	(2000)	(1987)	(1987)	(1973)	(1995)	(1960)	(1994)	(1988)
MIN	0.00	26.1	29.2	31.4	25.3	19.2	8.12	15.3	1.86	0.04	0.00	0.00
(WY)	(1965)	(1968)	(1965)	(1965)	(1972)	(1971)	(1967)	(1964)	(1977)	(1990)	(1964)	(1964)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1950 - 2004	
ANNUAL TOTAL	27,642.3		49,325.6			
ANNUAL MEAN	75.7		135		163	
HIGHEST ANNUAL MEAN					353	1987
LOWEST ANNUAL MEAN					64.1	1964
HIGHEST DAILY MEAN	980	Jun 28	2,050	Apr 4	2,920	Jul 12, 1960
LOWEST DAILY MEAN	3.6	Aug 19	5.7	Oct 3	0.00	Aug 21, 1951
ANNUAL SEVEN-DAY MINIMUM	5.6	Aug 14	15	Oct 1	0.00	Jun 29, 1953
MAXIMUM PEAK FLOW			3,340	Apr 3	3,340	Apr 3, 2004
MAXIMUM PEAK STAGE			12.08	Apr 3	12.08	Apr 3, 2004
INSTANTANEOUS LOW FLOW			5.4	Oct 6	0.00	Sep 6, 2002
ANNUAL RUNOFF (AC-FT)	54,830		97,840		118,000	
10 PERCENT EXCEEDS	91		216		568	
50 PERCENT EXCEEDS	49		75		62	
90 PERCENT EXCEEDS	7.2		24		11	

e Estimated

08400000 FOURMILE DRAW NEAR LAKEWOOD, NM

LOCATION.--Lat 32°40'20", long 104°22'07", in SW ¼ NW ¼ SE ¼ sec.10, T.19 S., R.26 E., Eddy County, Hydrologic Unit 13060011, in left side of channel 360 ft downstream from ford on Lake Road, 1.9 mi downstream from U.S. Highway 285, 2.8 mi north of Lakewood, 3.8 mi upstream from mouth, and 11.5 mi south of Artesia. Mouth at Pecos River mile 490.6.

DRAINAGE AREA.--265 mi^2, approximately.

PERIOD OF RECORD.--October 1951 to February 2000, May 2000 to current year.

REVISED RECORDS.--WDR NM-68-1: 1967.

GAGE.--Water-stage recorder. Elevation of gage is 3,299.14 ft above National Geodetic Vertical Datum of 1929. Oct. 1, 1951, to June 19, 1962, at site 1.8 mi upstream at datum 30.61 ft higher. June 19, 1962, to Oct. 12, 1966, at site 410 ft upstream at datum 6.08 ft higher.

REMARKS.--Records fair. No surface diversions upstream from station. No flow most of the time.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	157	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.2	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	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	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	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	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	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	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	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	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	27
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	187.84	0.00	0.00	0.00	1.20	41.00
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.04	1.37
MAX	0.00	0.00	0.00	0.00	0.00	0.00	157	0.00	0.00	0.00	1.2	27
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	373	0.00	0.00	0.00	2.4	81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2004, BY WATER YEAR (WY)

MEAN	1.55	0.00	0.00	0.00	0.00	0.00	0.13	1.05	8.32	2.57	14.4	9.03
MAX	73.0	0.00	0.00	0.00	0.00	0.00	6.26	35.2	403	78.0	488	424
(WY)	(1955)	(1959)	(1952)	(1952)	(1952)	(1952)	(2004)	(1979)	(1986)	(1968)	(1966)	(1974)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1952)	(1952)	(1952)	(1952)	(1952)	(1952)	(1952)	(1952)	(1953)	(1954)	(1952)	(1952)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1952 - 2004	
ANNUAL TOTAL	0.00		230.04			
ANNUAL MEAN	0.00		0.63		3.21	
HIGHEST ANNUAL MEAN					41.6	1966
LOWEST ANNUAL MEAN					0.00	1969
HIGHEST DAILY MEAN	0.00	Jan 1	157	Apr 4	13,000	Aug 23, 1966
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1951
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1951
MAXIMUM PEAK FLOW			490	Apr 4	29,300	Aug 23, 1966
MAXIMUM PEAK STAGE			4.04	Apr 4	19.90	Aug 23, 1966
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Oct 1, 1951
ANNUAL RUNOFF (AC-FT)	0.00		456		2,330	
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

08401200 SOUTH SEVEN RIVERS NEAR LAKEWOOD, NM

LOCATION.--Lat 32°35'19", long 104°25'17", in SE ¼ SE ¼ NW ¼ sec.7, T.20 S., R.26 E., Eddy County, Hydrologic Unit 13060011, on downstream side of center pier of bridge on U.S. Highway 285, 0.4 mi south of Seven Rivers, 2.6 mi upstream from mouth, and 4.0 mi southwest of Lakewood. Mouth at Pecos River mile 480.9.

DRAINAGE AREA.--220 mi^2, approximately.

PERIOD OF RECORD.--October 1963 to April 1997, May 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,280 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to July 8, 1965, at site 400 ft upstream at datum 0.52 ft higher. Prior to May 20, 1999, at datum 2.19 ft higher.

REMARKS.--Records fair. 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	e0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	92	0.00	0.00	0.00	0.00	1.9
5	0.00	0.00	0.00	0.00	0.00	0.00	19	0.00	0.00	0.00	0.00	1.8
6	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00
7	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	1.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.3	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.3	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	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	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	0.00	0.00	0.00	0.02	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34	0.00	1.3
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	13	0.00	4.7
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.43	3.8	0.00	1.7
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	2.4
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.72
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	4.4
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	1.90	0.00	0.00	0.00	0.00	0.00	140.09	0.65	1.15	50.84	6.00	19.05
MEAN	0.06	0.00	0.00	0.00	0.00	0.00	4.67	0.02	0.04	1.64	0.19	0.64
MAX	1.2	0.00	0.00	0.00	0.00	0.00	92	0.65	0.53	34	3.4	4.7
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	3.8	0.00	0.00	0.00	0.00	0.00	278	1.3	2.3	101	12	38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	0.79	0.07	0.00	0.00	0.00	0.00	0.13	2.51	8.55	1.66	16.7	10.3
MAX	15.9	2.05	0.00	0.00	0.01	0.11	4.67	83.9	275	28.3	369	237
(WY)	(1984)	(1984)	(1964)	(1964)	(2003)	(2002)	(2004)	(1965)	(1986)	(1968)	(1966)	(1974)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1966)	(1964)	(1965)	(1964)	(1965)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	2.38		219.68			
ANNUAL MEAN	0.01		0.60		3.49	
HIGHEST ANNUAL MEAN					31.5	1966
LOWEST ANNUAL MEAN					0.00	1989
HIGHEST DAILY MEAN	1.2	Oct 8	92	Apr 4	9,300	Aug 23, 1966
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1963
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 9	0.00	Oct 1, 1963
MAXIMUM PEAK FLOW			650	Apr 4	25,500	May 30, 1965
MAXIMUM PEAK STAGE			9.65	Apr 4	20.00	May 30, 1965
INSTANTANEOUS LOW FLOW			0.00	Oct 4	0.00	Oct 1, 1963
ANNUAL RUNOFF (AC-FT)	4.7		436		2,530	
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

08401450 BRANTLEY LAKE NEAR CARLSBAD, NM

LOCATION.--Lat 32°32'48", long 104°22'43", in NE ¼ SE ¼ NE ¼ 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). Sept. 1, 2001, elevations referenced to the North American Vertical Datum of 1988 (NAVD). Elevation of gage as of Sept. 1, 2001, is 3,204.19 ft above NAVD 1988.

REMARKS.--Lake is formed by a concrete and earthfill dam on Pecos River. Storage began Aug. 31, 1988. Capacity, 348,540 acre-ft, from capacity table dated June 2001, between elevations 3,205.0 ft and 3,305.19 ft. Dead storage 2,010 acre-ft. Lake was created primarily for irrigation storage and flood control.

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 49,270 acre-ft, Sept. 22-24, 1991, elevation, 3,257.60 ft; minimum, 2,040 acre-ft, May 26, 1990, elevation, 3,224.60 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 38,060 acre-ft, Apr. 30, elevation, 3,254.74 ft; minimum, 2,100 acre-ft, Nov. 25, elevation, 3,230.20 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 0700 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,530	6,890	4,090	6,240	8,410	10,760	23,260	36,780	25,140	16,420	11,640	10,240
2	2,620	6,920	4,180	6,270	8,490	10,900	23,260	36,480	24,900	16,650	11,730	10,300
3	2,680	6,940	4,270	6,360	8,570	11,030	23,490	36,210	24,480	16,880	11,740	10,320
4	2,750	6,960	4,360	6,420	8,610	11,170	28,820	35,970	24,000	17,000	11,770	10,360
5	2,800	6,960	4,430	6,470	8,680	11,170	31,830	35,740	23,550	17,080	11,740	10,540
6	2,850	6,970	4,480	6,540	8,730	11,260	33,770	35,200	23,080	17,180	11,740	10,530
7	2,880	6,980	4,580	6,610	8,810	11,860	35,390	34,640	22,820	17,150	11,720	10,520
8	3,130	7,000	4,620	6,700	8,870	13,100	36,120	34,280	22,470	17,180	11,740	10,510
9	4,190	7,020	4,700	6,760	8,950	14,550	36,390	33,740	22,200	16,860	11,880	10,490
10	4,910	7,040	4,750	6,810	9,010	16,050	36,640	33,200	21,700	16,190	11,960	10,500
11	6,470	7,070	4,810	6,890	9,080	17,550	36,800	32,630	21,070	15,480	11,270	10,180
12	6,960	7,080	4,880	6,950	9,160	19,010	36,920	31,860	20,410	14,710	10,580	9,870
13	7,360	7,090	4,940	7,020	9,210	20,750	37,080	31,370	19,800	13,980	10,730	9,390
14	7,500	7,120	5,000	7,080	9,320	21,380	37,320	30,780	19,340	13,410	10,880	8,940
15	7,570	7,190	5,070	7,160	9,400	21,650	37,500	30,500	18,750	12,850	11,010	8,340
16	7,620	7,240	5,150	7,240	9,460	21,870	37,620	30,250	18,230	12,280	11,220	7,740
17	7,650	7,260	5,230	7,320	9,540	22,030	37,720	30,300	17,530	11,790	11,500	7,210
18	7,680	7,280	5,290	7,410	9,600	22,200	37,810	30,200	16,880	11,260	11,620	6,860
19	7,680	7,310	5,370	7,490	9,680	22,360	37,870	29,520	16,540	10,930	11,710	6,500
20	7,710	6,890	5,430	7,580	9,770	22,430	37,960	28,820	16,280	10,910	11,730	5,620
21	7,740	6,160	5,490	7,640	9,830	22,570	37,960	28,240	16,220	10,390	11,750	6,150
22	7,760	5,290	5,560	7,730	9,920	22,680	37,960	27,540	16,130	10,290	11,830	6,230
23	7,790	4,500	5,630	7,790	9,960	22,770	37,990	27,110	16,040	10,100	11,840	7,000
24	7,800	3,750	5,700	7,860	10,100	22,860	37,960	26,810	16,040	9,860	11,800	8,340
25	7,370	2,100	5,780	7,950	10,170	22,950	37,960	26,590	16,040	9,980	11,490	9,580
26	6,940	3,380	5,850	8,000	10,280	23,060	37,960	26,520	16,070	10,430	11,340	11,040
27	6,680	3,590	5,900	8,070	10,400	23,160	37,960	26,410	16,110	10,680	11,200	12,720
28	6,760	3,720	5,990	8,150	10,530	23,220	37,930	26,120	16,140	11,000	10,910	14,570
29	6,790	3,860	6,040	8,220	10,680	23,220	37,990	25,850	16,110	11,270	10,520	16,480
30	6,860	3,970	6,110	8,280	---	23,240	38,060	25,630	16,130	11,480	10,340	18,500
31	6,860	---	6,180	8,350	---	23,240	---	25,350	---	11,600	10,280	---
MAX	7,800	7,310	6,180	8,350	10,680	23,240	38,060	36,780	25,140	17,180	11,960	18,500
MIN	2,530	2,100	4,090	6,240	8,410	10,760	23,260	25,350	16,040	9,860	10,280	5,620
(+)	3,236.53	3,232.01	3,235.60	3,238.30	3,240.63	3,248.82	3,254.74	3,249.83	3,244.77	3,241.43	3,240.26	3,246.24
(++)	+4,060	-2,890	+2,210	+2,170	+2,330	+12,560	+14,820	-12,710	-9,220	-4,530	-1,320	+8,220

CAL YR 2003 MAX 20,840 MIN 2,100 (++) -5,840
WTR YR 2004 MAX 38,060 MIN 2,100 (++) +15,700

(+) 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 ¼ NW ¼ SE ¼ 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 Oct. 1971, at site 1.3 mi upstream at different datum. Oct. 1971 to June 4, 1985, at site 0.8 mi upstream at datum 7.29 ft higher. Prior to Oct. 1988, at site 0.2 mi downstream at same datum.

REMARKS.--Records fair except for those estimated, which are poor. Flow completely regulated by Brantley Lake (station 08401450), 0.8 mi upstream, since Aug. 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	26	e21	23	24	26	21	369	159	29	21	60
2	e18	26	e21	22	24	26	21	271	198	27	22	23
3	e18	26	e20	23	24	26	e21	198	261	27	22	23
4	e17	26	e20	23	24	24	e21	181	285	26	22	23
5	e17	26	e20	23	23	25	e21	267	288	25	22	23
6	e17	26	24	23	24	25	e22	316	242	25	22	23
7	e18	25	24	23	24	26	e22	301	217	24	22	23
8	e19	24	22	23	24	27	28	325	219	139	22	23
9	e19	e27	20	23	24	28	27	343	284	331	22	23
10	e20	e28	20	23	24	28	27	342	348	429	240	139
11	e21	e28	20	23	24	29	27	416	397	493	384	216
12	e21	e28	20	23	25	29	26	388	413	512	336	265
13	e21	e28	20	23	24	29	26	351	351	457	56	293
14	e21	e28	20	23	24	29	26	271	352	425	22	334
15	e22	e27	20	23	24	30	26	224	371	380	21	356
16	24	e25	22	24	25	30	26	108	405	354	21	354
17	28	30	22	24	25	29	26	70	422	351	21	306
18	27	41	22	24	25	29	26	335	323	295	21	278
19	28	197	22	24	24	29	26	402	242	245	21	263
20	28	396	22	24	25	28	26	328	152	234	22	201
21	28	536	22	24	25	27	26	328	108	215	22	172
22	29	567	22	24	25	27	26	276	108	179	22	151
23	28	546	22	24	25	26	27	215	69	164	22	141
24	188	531	22	23	26	25	27	133	34	131	188	146
25	287	216	22	23	26	25	27	97	31	69	291	123
26	237	e21	22	24	26	24	28	96	31	20	291	66
27	101	e21	22	24	25	23	29	173	31	20	291	22
28	27	e21	22	24	25	23	26	175	30	20	290	22
29	25	e21	22	24	24	22	24	152	30	21	252	23
30	26	e21	23	25	---	22	264	155	30	21	152	23
31	26	---	23	23	---	21	---	157	---	21	105	---
TOTAL	1,508	3,589	666	726	711	817	996	7,763	6,431	5,709	3,288	4,138
MEAN	48.6	120	21.5	23.4	24.5	26.4	33.2	250	214	184	106	138
MAX	287	567	24	25	26	30	264	416	422	512	384	356
MIN	17	21	20	22	23	21	21	70	30	20	21	22
AC-FT	2,990	7,120	1,320	1,440	1,410	1,620	1,980	15,400	12,760	11,320	6,520	8,210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2004, BY WATER YEAR (WY)

MEAN	167	69.8	51.3	39.9	50.4	71.5	225	214	217	234	192	165
MAX	412	431	460	297	300	149	313	1,058	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	9.89	19.1	33.2	79.9	66.5	11.3	18.4	50.9
(WY)	(1979)	(1989)	(1995)	(1995)	(2003)	(1990)	(2004)	(1976)	(1977)	(1976)	(1981)	(1976)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1972 - 2004	
ANNUAL TOTAL	28,304.61		36,342			
ANNUAL MEAN	77.5		99.3		146	
HIGHEST ANNUAL MEAN					282	1992
LOWEST ANNUAL MEAN					69.5	1977
HIGHEST DAILY MEAN	567	Nov 22	567	Nov 22	2,050	Sep 3, 1972
LOWEST DAILY MEAN	0.18	Feb 9	17	Oct 4	0.18	Feb 9, 2003
ANNUAL SEVEN-DAY MINIMUM	2.3	Feb 3	18	Oct 2	0.33	Nov 22, 1988
MAXIMUM PEAK FLOW			592	Nov 21	2,050	Sep 3, 1972
MAXIMUM PEAK STAGE			7.37	Nov 21	7.37	Nov 21, 2003
INSTANTANEOUS LOW FLOW			6.3	Nov 17	0.00	Feb 9, 2003
ANNUAL RUNOFF (AC-FT)	56,140		72,080		106,100	
10 PERCENT EXCEEDS	243		328		346	
50 PERCENT EXCEEDS	22		26		64	
90 PERCENT EXCEEDS	9.2		21		20	

e Estimated

08401900 ROCKY ARROYO AT HIGHWAY BRIDGE, NEAR CARLSBAD, NM

LOCATION.--Lat 32°30'23", long 104°22'28", in SE ¼ SE ¼ 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 with satellite telemetry. Elevation of gage is 3,250 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Feb. 1985, at site 60 ft downstream at same datum.

REMARKS.--Records fair except for those estimated, which are poor. Diversions for irrigation of 220 acres, upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Since about 1941 the maximum discharge probably occurred Oct. 7, 1954, discharge, 63,600 ft^3/s, gage height, 19.2 ft, from floodmarks, on downstream end of bridge pier, by slope-area measurement at site 5 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	2.7	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	2,590	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	4,760	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	464	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	58	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	7.6	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	26	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	46	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	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	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	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	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	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	0.00	0.00	0.00	1,360	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	207	0.00	74
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12	0.00	8.7
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	65
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	7,882.30	0.00	0.00	1,579.00	72.00	147.70
MEAN	0.00	0.00	0.00	0.00	0.00	0.00	263	0.00	0.00	50.9	2.32	4.92
MAX	0.00	0.00	0.00	0.00	0.00	0.00	4,760	0.00	0.00	1,360	46	74
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	15,630	0.00	0.00	3,130	143	293

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	7.90	0.45	0.01	0.00	0.00	0.00	6.46	1.91	14.5	5.22	20.7	18.5
MAX	185	10.1	0.56	0.00	0.00	0.00	263	37.6	468	73.4	616	335
(WY)	(1975)	(2001)	(1975)	(1975)	(1964)	(1964)	(2004)	(1979)	(1986)	(2002)	(1966)	(1974)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1965)	(1964)	(1964)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	0.00		9,681.00			
ANNUAL MEAN	0.00		26.5		6.31	
HIGHEST ANNUAL MEAN					53.9	1966
LOWEST ANNUAL MEAN					0.00	1973
HIGHEST DAILY MEAN	0.00	Jan 1	4,760	Apr 4	13,900	Aug 23, 1966
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1963
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1963
MAXIMUM PEAK FLOW			22,000	Apr 4	a31,600	Aug 23, 1966
MAXIMUM PEAK STAGE			14.20	Apr 4	15.35	Aug 23, 1966
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Oct 1, 1997
ANNUAL RUNOFF (AC-FT)	0.00		19,200		4,570	
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

a From rating curve extended above 8,500 ft^3/s, on basis of slope-area measurement of peak flow.
e Estimated

08402000 PECOS RIVER AT DAMSITE 3, NEAR CARLSBAD, NM

LOCATION.--Lat 32°30'40", long 104°19'58", sec.6, T.21 S., R.26 E., Eddy County, Hydrologic Unit 13060011, on right bank at damsite 3 of Carlsbad Project of Bureau of Reclamation, about 1 mi upstream from flow line of Lake Avalon, 1.3 mi downstream from Rocky Arroyo, 8.0 mi northwest of Carlsbad, and at mile 473.8.

DRAINAGE AREA.--17,980 mi^2, approximately (contributing area).

PERIOD OF RECORD.--August 1939 to December 1940, August 1944 to current year.

REVISED RECORDS.--WSP 1512: 1946-47(M), 1948(P), 1949, 1950(P). WSP 1712: drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 3,171.31 ft above National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Prior to Aug. 10, 1944, at site 1,000 ft downstream at datum 1.00 ft higher. Aug. 10, 1944, to Dec. 31, 1966, at present datum 1.00 ft higher.

REMARKS.--Records fair except for those estimated, which are poor. Flow regulated by Brantley Lake (station 08401450), 4.8 mi upstream, and other reservoirs and diversion dams. Diversions and ground-water withdrawals for irrigation of about 17,300 acres, 1959 determination, upstream from station. Discharge represents inflow to Lake Avalon. Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Peaks that probably exceeded 40,000 ft^3/s occurred in Aug. 1893, Oct. 2, 1904, July 25, 1905, Apr. 17, 1915, Aug. 7, 1916, and May 30, 1937, based primarily on records for station "at Carlsbad." Peak of May 22, 1941, was estimated at 60,000 ft^3/s. Floods of 1893 and 1904 originated upstream from McMillan Dam and contributed to the two failures of Avalon Dam.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	24	19	19	18	18	23	359	132	23	18	62
2	18	24	19	19	18	18	27	255	163	22	18	18
3	16	24	18	19	17	24	453	169	229	22	18	16
4	16	24	18	19	18	34	494	143	263	21	18	17
5	16	24	19	19	17	19	464	210	263	21	17	17
6	15	24	19	19	17	20	107	276	223	21	17	16
7	16	25	19	20	17	20	16	263	183	21	18	16
8	17	25	17	20	18	20	23	276	185	84	17	16
9	17	25	16	20	18	21	26	303	e215	261	17	16
10	18	25	16	20	17	21	26	301	e275	364	168	85
11	19	25	17	20	17	22	27	359	e295	407	352	174
12	19	25	17	20	18	24	26	350	e320	425	333	214
13	19	25	17	20	18	23	26	294	e305	394	256	251
14	19	27	17	20	18	23	26	229	e315	368	18	301
15	19	27	16	20	17	23	26	189	e320	337	17	342
16	19	26	17	20	18	23	26	104	e320	308	17	337
17	20	26	17	20	17	23	26	37	e325	305	17	280
18	20	26	18	20	18	e23	26	217	e250	263	17	233
19	20	134	17	20	17	e24	26	365	e180	211	17	222
20	20	366	18	20	17	e24	26	363	e125	197	16	168
21	20	511	18	20	18	24	26	362	e100	183	18	130
22	20	548	18	20	18	23	26	297	80	152	17	117
23	20	531	18	19	18	23	26	211	61	136	16	107
24	136	511	18	19	20	23	26	126	27	117	124	110
25	276	259	19	18	18	23	27	77	24	941	254	98
26	229	21	18	18	18	23	27	77	25	300	254	89
27	119	20	19	18	18	23	27	139	26	40	254	32
28	24	19	19	19	18	23	26	164	23	18	254	18
29	22	19	19	19	17	23	23	128	23	17	223	18
30	22	19	19	20	---	23	200	129	22	17	140	40
31	24	---	19	18	---	23	---	131	---	18	86	---
TOTAL	1,375	3,409	555	602	513	701	2,354	6,903	5,297	6,014	3,026	3,560
MEAN	44.4	114	17.9	19.4	17.7	22.6	78.5	223	177	194	97.6	119
MAX	276	548	19	20	20	34	494	365	325	941	352	342
MIN	15	19	16	18	17	18	16	37	22	17	16	16
AC-FT	2,730	6,760	1,100	1,190	1,020	1,390	4,670	13,690	10,510	11,930	6,000	7,060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2004, BY WATER YEAR (WY)

MEAN	196	82.5	70.3	57.6	63.3	82.5	246	195	223	250	253	205
MAX	2,609	464	421	284	293	382	345	1,055	1,892	794	2,267	1,156
(WY)	(1955)	(1987)	(1992)	(1987)	(1987)	(1987)	(1945)	(1973)	(1986)	(1960)	(1966)	(1974)
MIN	9.91	5.71	1.04	1.98	11.5	17.7	78.5	46.4	18.6	10.8	21.5	12.3
(WY)	(1965)	(1989)	(1995)	(1995)	(2003)	(1965)	(2004)	(1946)	(1946)	(1976)	(1947)	(1964)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1939 - 2004	
ANNUAL TOTAL	28,202.0		34,309			
ANNUAL MEAN	77.3		93.7		161	
HIGHEST ANNUAL MEAN					395	1955
LOWEST ANNUAL MEAN					66.8	1977
HIGHEST DAILY MEAN	548	Nov 22	941	Jul 25	39,000	Aug 23, 1966
LOWEST DAILY MEAN	1.3	Feb 5	15	Oct 6	0.00	Dec 21, 1988
ANNUAL SEVEN-DAY MINIMUM	2.9	Jan 7	16	Oct 3	0.46	Dec 15, 1988
MAXIMUM PEAK FLOW			2,650	Jul 25	a69,000	Aug 23, 1966
MAXIMUM PEAK STAGE			6.35	Jul 25	b21.32	Aug 23, 1966
INSTANTANEOUS LOW FLOW			7.0	Apr 7	0.00	Dec 21, 1988
ANNUAL RUNOFF (AC-FT)	55,940		68,050		116,400	
10 PERCENT EXCEEDS	242		300		343	
50 PERCENT EXCEEDS	20		23		90	
90 PERCENT EXCEEDS	8.2		17		22	

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.
e Estimated

08403500 CARLSBAD MAIN CANAL AT HEAD, NEAR CARLSBAD, NM

LOCATION.--Lat 32°29'25", long 104°15'08", in NW ¼ SW ¼ SW ¼ 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, and at 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 Mar. 1951, at site 20 ft upstream at datum 0.9 ft higher.

REMARKS.--Records good, except for those estimated, which are poor. Carlsbad Main Canal diverts water from Lake Avalon (station 08403800) for irrigation of about 25,000 acres in the Carlsbad Irrigation District. About 1,600 acres are irrigated on the left bank, most of it upstream from gaging station 08405200. The remaining acreage (most of which is downstream from station 08405200) is on the right bank. Several observations of temperature were made during the year. No flow many days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e100	0.00	0.00	0.00	0.00	0.00	0.00	217	106	0.00	0.00	38
2	e10	0.00	0.00	0.00	0.00	0.00	0.68	170	117	0.00	e0.00	0.00
3	e0.00	0.00	0.00	0.00	0.00	0.00	8.7	202	244	0.00	0.00	0.00
4	e0.00	0.00	0.00	0.00	0.00	0.00	4.2	191	249	0.00	0.00	0.00
5	e0.00	0.00	0.00	0.00	0.00	0.00	1.2	194	233	0.00	114	0.00
6	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	237	204	0.00	169	0.00
7	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	244	190	126	226	0.00
8	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	306	228	290	256	0.00
9	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	295	261	370	288	73
10	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	334	307	385	352	159
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	320	347	383	374	170
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	256	323	359	298	177
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	255	267	354	0.48	240
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	186	315	356	0.00	340
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	163	353	310	0.00	340
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	173	348	306	0.00	312
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	194	290	282	0.00	243
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	304	185	209	0.00	265
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	326	163	193	0.00	184
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	328	113	183	0.00	173
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	321	92	135	0.00	167
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	228	64	138	107	106
23	116	0.00	0.00	0.00	0.00	0.00	0.00	142	0.00	131	240	118
24	231	0.00	0.00	0.00	0.00	0.00	0.00	136	0.00	97	278	125
25	262	0.00	0.00	0.00	0.00	0.00	0.00	147	0.00	19	263	67
26	137	0.00	0.00	0.00	0.00	0.00	128	135	2.8	0.00	264	18
27	101	0.00	0.00	0.00	0.00	0.00	295	137	0.03	0.00	268	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	349	99	0.00	0.00	231	0.13
29	0.00	0.00	0.00	0.00	0.00	0.00	336	97	0.00	0.00	186	0.07
30	0.00	0.00	0.00	0.00	---	0.00	304	96	0.00	0.00	124	0.09
31	0.00	---	0.00	0.00	---	0.00	---	116	---	0.00	112	---
TOTAL	957.00	0.00	0.00	0.00	0.00	0.00	1,426.78	6,549	5,001.83	4,626.00	4,150.48	3,315.29
MEAN	30.9	0.00	0.00	0.00	0.00	0.00	47.6	211	167	149	134	111
MAX	262	0.00	0.00	0.00	0.00	0.00	349	334	353	385	374	340
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	96	0.00	0.00	0.00	0.00
AC-FT	1,900	0.00	0.00	0.00	0.00	0.00	2,830	12,990	9,920	9,180	8,230	6,580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2004, BY WATER YEAR (WY)

MEAN	84.3	3.87	6.87	10.3	20.8	71.0	240	137	162	198	198	140
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	0.00	0.00	0.00	0.00	0.00	0.00	47.6	6.58	0.00	0.00	2.81	0.00
(WY)	(1953)	(1942)	(1941)	(1942)	(1941)	(1948)	(2004)	(1953)	(1953)	(1976)	(1981)	(1964)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1939 - 2004	
ANNUAL TOTAL	19,029.98		26,026.38			
ANNUAL MEAN	52.1		71.1		105	
HIGHEST ANNUAL MEAN					174	1940
LOWEST ANNUAL MEAN					51.8	1964
HIGHEST DAILY MEAN	303	Jun 18	385	Jul 10	526	Sep 15, 1946
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 3	0.00	Jul 1, 1939
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 11	0.00	Oct 3	0.00	Oct 16, 1939
MAXIMUM PEAK FLOW			422	Jul 10	451	Jul 5, 1999
MAXIMUM PEAK STAGE			3.54	Jul 10	3.65	Jul 5, 1999
INSTANTANEOUS LOW FLOW			0.00	Oct 3	0.00	Oct 13, 1997
ANNUAL RUNOFF (AC-FT)	37,750		51,620		76,250	
10 PERCENT EXCEEDS	210		279		290	
50 PERCENT EXCEEDS	0.00		0.00		59	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

08403800 LAKE AVALON NEAR CARLSBAD, NM

LOCATION.--Lat 32°29'27", long 104°15'05", in NW ¼ SW ¼ sec.12, T.21 S., R.26 E., Eddy County, Hydrologic Unit 13060011, on headwall at outlet gate of dam on Pecos River, 3.3 mi north of Carlsbad, and at mile 467.2.

DRAINAGE AREA.--18,070 mi^2, approximately (contributing area).

PERIOD OF RECORD.--January 1939 to September 1965 (monthend gage heights and contents), October 1965 to current year. Monthend gage heights January 1919 to December 1938 in files of Pecos River Commission.

REVISED RECORDS.--WSP 898: 1939.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,157.0 ft above National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation).

REMARKS.--Lake is formed by Avalon Dam, an earthfill structure. The original Eddy (Avalon) Dam was completed and storage began in 1891. The dam was destroyed by the flood of Aug. 3, 1893; repaired immediately. The dam was destroyed again Oct. 2, 1904; construction of present dam commenced on June 1, 1906, and was 88 percent complete June 30, 1907. Capacity (based on Feb. 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 Jan. 1, 1997. Figures given herein represent usable contents. Water is used by Carlsbad Irrigation District.

COOPERATION.--Records provided by Carlsbad Irrigation District.

EXTREMES OUTSIDE PERIOD OF RECORD (SINCE 1938).--Maximum contents, 11,000 acre-ft, May 22, 1941, gage height, 25.0 ft; no storage at times when natural flow is passing through reservoir.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 5,920 acre-ft, Apr. 4, gage height, 21.90 ft; minimum, 848 acre-ft, July 11, gage height, 15.50 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,210	1,460	1,090	1,720	2,350	2,720	3,180	1,330	1,400	1,920	4,230	1,400
2	1,210	1,460	1,150	1,790	2,350	2,720	3,850	1,520	1,460	1,920	4,200	1,400
3	1,210	1,460	1,150	1,790	2,350	2,720	3,850	1,590	1,460	1,920	4,150	1,460
4	1,210	1,520	1,150	1,790	2,350	2,870	5,920	1,460	1,460	1,920	4,110	1,460
5	1,080	1,520	1,210	1,860	2,420	2,870	4,200	1,330	1,460	1,990	4,080	1,460
6	1,270	1,520	1,210	1,860	2,420	2,870	4,020	1,400	1,520	1,990	3,680	1,520
7	1,270	1,520	1,210	1,860	2,420	2,870	3,720	1,460	1,460	1,940	3,270	1,520
8	1,270	1,590	1,270	1,920	2,420	2,870	3,720	1,400	1,400	1,520	2,790	1,520
9	1,330	1,660	1,270	1,920	2,420	2,870	3,720	1,400	1,270	1,090	2,200	1,520
10	1,330	1,660	1,270	1,920	2,420	2,950	3,720	1,330	1,150	966	1,590	1,270
11	1,330	1,720	1,330	1,920	2,420	2,950	3,760	1,270	1,150	848	1,330	1,150
12	1,400	1,720	1,330	1,920	2,490	2,950	3,760	1,400	1,090	1,030	1,400	1,150
13	1,400	1,720	1,330	1,920	2,490	3,030	3,760	1,520	1,210	1,150	2,200	1,210
14	1,460	1,790	1,400	1,990	2,490	3,030	3,760	1,660	1,210	1,210	2,200	1,150
15	1,460	1,790	1,400	1,990	2,490	3,030	3,760	1,660	1,210	1,270	2,280	1,090
16	1,460	1,790	1,400	1,990	2,490	3,030	3,760	1,790	1,090	1,270	2,350	1,090
17	1,520	1,860	1,460	2,060	2,570	3,030	3,760	1,590	1,090	1,270	2,350	1,210
18	1,520	1,860	1,460	2,060	2,570	3,030	3,760	1,210	1,330	1,400	2,350	1,210
19	1,520	1,860	1,460	2,130	2,570	3,110	3,760	1,090	1,460	1,460	2,350	1,150
20	1,520	2,200	1,520	2,130	2,570	3,110	3,760	1,090	1,460	1,460	2,350	1,330
21	1,520	2,130	1,520	2,130	2,570	3,110	3,760	1,210	1,460	1,460	2,350	1,210
22	1,590	1,990	1,520	2,130	2,640	3,110	3,760	1,330	1,400	1,520	2,350	1,150
23	1,590	1,920	1,590	2,130	2,640	3,110	3,760	1,460	1,460	1,460	1,990	1,150
24	1,270	1,860	1,590	2,130	2,640	3,110	3,760	1,590	1,520	1,460	1,460	1,090
25	1,090	1,720	1,590	2,200	2,640	3,180	3,760	1,460	1,520	1,520	1,270	1,090
26	1,150	1,020	1,660	2,200	2,640	3,180	3,760	1,330	1,790	4,110	1,270	1,210
27	1,330	1,090	1,660	2,200	2,640	3,180	3,350	1,150	1,920	4,380	1,270	1,400
28	1,400	1,090	1,660	2,280	2,720	3,180	2,720	1,270	1,920	4,390	1,270	1,460
29	1,400	1,090	1,720	2,280	2,720	3,180	2,060	1,330	1,920	4,370	1,400	1,460
30	1,400	1,090	1,720	2,280	---	3,180	1,400	1,400	1,920	4,290	1,460	1,520
31	1,460	---	1,720	2,280	---	3,180	---	1,400	---	4,260	1,400	---
MAX	1,590	2,200	1,720	2,280	2,720	3,180	5,920	1,790	1,920	4,390	4,230	1,520
MIN	1,080	1,020	1,090	1,720	2,350	2,720	1,400	1,090	1,090	848	1,270	1,090
(+)	3,173.50	3,172.90	3,173.90	3,174.70	3,175.30	3,175.90	3,173.40	3,173.40	3,174.20	3,177.17	3,173.40	3,173.60
(++)	+310	-370	+630	+560	+440	+460	-1,780	0	+520	+2,340	-2,860	+120

CAL YR 2003 MAX 2,200 MIN 3.0 (++) +1,699
WTR YR 2004 MAX 5,920 MIN 848 (++) +370

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

08404000 PECOS RIVER BELOW AVALON DAM, NM

LOCATION.--Lat 32°28'55", long 104°15'47", in SW ¼ SW ¼ NE ¼ 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. Jan. 1906 to Mar. 1907, nonrecording gage at site 0.5 mi upstream at different datum.

REMARKS.--Records good. Flow completely regulated by Lake Avalon (station 08403800) 0.9 mi upstream. Diversions and ground-water withdrawals upstream from station for irrigation of about 198,000 acres, 1959 determination. Station bypassed by Carlsbad Main Canal (station 08403500). Several observations of water temperature were made during the year. No flow most of time.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 2, 1904, caused in part by failure of Avalon Dam, probably exceeded 90,000 ft^3/s, and is probably the greatest flood since 1842. A major flood occurred Aug. 3, 1893, and was described as "greatest in 50 years"; it damaged McMillan Dam, then under construction, and washed out the original Avalon Dam. Another major flood occurred Aug. 7, 1916, discharge 70,000 ft^3/s, at site 6.5 mi downstream.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	770	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	14,400	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	278	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	337	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	5.6	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	2.3	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.9	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	224	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	486	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	536	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	520	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	508	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	479	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15	0.00	0.00
26	0.00	173	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.44	0.00	0.00
27	0.00	5.1	0.00	0.00	0.00	0.00	0.00	0.00	1.8	0.00	0.00	0.00
28	0.00	2.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	2,933.71	0.00	0.00	0.00	0.00	15,793.34	0.00	2.90	15.44	6.48	0.00
MEAN	0.00	97.8	0.00	0.00	0.00	0.00	526	0.00	0.10	0.50	0.21	0.00
MAX	0.00	536	0.00	0.00	0.00	0.00	14,400	0.00	1.8	15	5.9	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	5,820	0.00	0.00	0.00	0.00	31,330	0.00	5.8	31	13	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

MEAN	98.1	38.6	25.0	8.82	9.96	4.10	11.1	35.7	50.4	35.7	51.4	46.1
MAX	2,365	445	435	237	255	188	526	739	1,832	595	2,034	1,113
(WY)	(1955)	(1987)	(1992)	(1987)	(1987)	(1987)	(2004)	(1973)	(1986)	(1960)	(1966)	(1974)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1952)	(1952)	(1952)	(1952)	(1952)	(1952)	(1952)	(1952)	(1951)	(1951)	(1951)	(1951)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL TOTAL	2,945.30		18,751.87			
ANNUAL MEAN	8.07		51.2		35.0	
HIGHEST ANNUAL MEAN					206	1955
LOWEST ANNUAL MEAN					0.00	1953
HIGHEST DAILY MEAN	536	Nov 22	14,400	Apr 4	33,600	Aug 23, 1966
LOWEST DAILY MEAN	0.00	Jan 4	0.00	Oct 1	0.00	Jun 1, 1951
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 10	0.00	Oct 1	0.00	Jun 1, 1951
MAXIMUM PEAK FLOW			36,200	Apr 4	a55,500	Aug 23, 1966
MAXIMUM PEAK STAGE			16.33	Apr 4	b26.40	Aug 23, 1966
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Oct 1, 1999
ANNUAL RUNOFF (AC-FT)	5,840		37,190		25,380	
10 PERCENT EXCEEDS	0.00		0.00		1.1	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

a From rating curve extended above 33,000 ft^3/s, on basis of computation of peak flow over Tansill Dam, 5.8 mi upstream.
b From floodmarks.

08405105 DARK CANYON DRAW NEAR WHITES CITY, NM

LOCATION.--Lat 32°17'42", long 104°21'02", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.24, T.23 S., R.25 E., Eddy County, Hydrologic Unit 13060011, on left bank 0.25 mi upstream from mouth of canyon, and approximately 11.0 mi upstream from Dark Canyon Draw at Carlsbad.

DRAINAGE AREA.--327 mi^2, approximately.

PERIOD OF RECORD.--February 2002 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 3,544 ft above National Geodetic Vertical Datum of 1929.

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

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 9 mi downstream and 1 mi upstream from Dark Canyon Draw at Carlsbad station. A flood of approximately the same magnitude occurred Sept. 20, 1941. Other major peaks occurred July 17, 1906, July 24, 1908, Apr. 18, 1915, Aug. 8, 1916, Sept. 15, 1919, Aug. 4, 1925, and May 23, 1941.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,500 ft^3/s, Apr. 4, 2004, gage height 20.45 ft; minimum, no flow most of the year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 44,500 ft^3/s Apr. 4, 2004, gage height 20.45 ft; minimum, no flow most of the year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
3	0.00	0.00	0.00	e0.00	0.00	0.00	882	0.00	0.00	0.00	0.00	e0.00
4	0.00	0.00	0.00	e0.00	0.00	0.00	6,720	0.00	0.00	0.00	0.00	e0.00
5	0.00	0.00	0.00	e0.00	0.00	0.00	197	0.00	0.00	0.00	0.00	e0.00
6	0.00	0.00	0.00	e0.00	0.00	0.00	42	0.00	0.00	0.00	0.00	e0.00
7	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
8	e65	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
9	e0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
10	e0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	5.8	0.00	e0.00
11	e0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	87	0.00	e0.00
12	e0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
13	e0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	51	e0.00
14	e0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
15	e0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
16	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
17	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
18	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
19	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
20	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
21	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
22	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
23	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
24	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
25	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	544	0.00	e0.00
26	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	27	0.00	e0.00
27	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
28	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
29	0.00	0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00
30	0.00	0.00	e0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	e100
31	0.00	---	e0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	65.00	0.00	0.00	0.00	0.00	0.00	7,841.00	0.00	0.00	663.80	51.00	100.00
MEAN	2.10	0.00	0.00	0.00	0.00	0.00	261	0.00	0.00	21.4	1.65	3.33
MAX	65	0.00	0.00	0.00	0.00	0.00	6,720	0.00	0.00	544	51	100
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	129	0.00	0.00	0.00	0.00	0.00	15,550	0.00	0.00	1,320	101	198

CAL YR	2003	TOTAL	65.00	MEAN	0.18	MAX	65	MIN	0.00	AC-FT	129
WTR YR	2004	TOTAL	8,720.80	MEAN	23.8	MAX	6720	MIN	0.00	AC-FT	17,300

e Estimated

08405150 DARK CANYON DRAW AT CARLSBAD, NM

LOCATION.--Lat 32°24'12", long 104°13'46", in NE ¼ SE ¼ SW ¼ sec.7, T.22 S., R.27 E., Eddy County, Hydrologic Unit 13060011, on right bank and upstream from San Jose Street, and 1.0 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 with satellite telemetry. Elevation of gage is 3,129 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for those estimated, which are poor. A Natural Resources Conservation Service flood-control project on Hackberry Draw, an upstream tributary, has some effect on flood peaks and flow duration. Ground-water withdrawals upstream from station for irrigation of approximately 2,100 acres, 1973 determination, and for municipal supply for Carlsbad. Several observations of water temperature were made during the year. No flow during water year.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 23, 1966, reached a discharge of 66,000 ft^3/s, as determined by slope-area measurement at site 1.2 mi upstream. Another flood of approximately the same magnitude occurred Sept. 20, 1941. Other major peaks occurred July 17, 1906, July 24, 1908, July 24, 1911, Apr. 18, 1915, Aug. 8, 1916, Sept. 15, 1919, Aug. 4, 1925, and May 23, 1941.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	829	e0.00	e0.00	e0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	12,400	e0.00	e0.00	e0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	454	e0.00	e0.00	e0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	92	e0.00	e0.00	e0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	34	e0.00	e0.00	0.00	0.00	0.00
8	20	0.00	0.00	0.00	0.00	0.00	18	e0.00	e0.00	0.00	0.00	0.00
9	4.5	0.00	0.00	0.00	0.00	0.00	5.4	e0.00	e0.00	0.00	0.00	0.00
10	0.09	0.00	0.00	0.00	0.00	0.00	0.19	e0.00	e0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	27	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	6.2	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	0.04	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	203	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	157	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	2.1	0.00	8.2
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	e0.00	e0.00	e0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	e0.00	e0.00	e0.00	0.00	0.00	58
31	0.00	---	0.00	0.00	---	0.00	---	e0.00	---	0.00	0.00	---
TOTAL	24.59	0.00	0.00	0.00	0.00	0.00	13,832.59	0.00	0.00	362.10	33.24	66.20
MEAN	0.79	0.00	0.00	0.00	0.00	0.00	461	0.00	0.00	11.7	1.07	2.21
MAX	20	0.00	0.00	0.00	0.00	0.00	12,400	0.00	0.00	203	27	58
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	49	0.00	0.00	0.00	0.00	0.00	27,440	0.00	0.00	718	66	131

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2004, BY WATER YEAR (WY)

MEAN	6.39	0.64	0.00	0.00	0.00	0.00	14.4	0.35	12.3	1.77	5.30	21.0
MAX	196	19.7	0.00	0.00	0.00	0.00	461	8.81	386	32.4	162	331
(WY)	(1975)	(1979)	(1974)	(1973)	(1973)	(1973)	(2004)	(1979)	(1986)	(2002)	(1984)	(1980)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1974)	(1974)	(1974)	(1973)	(1973)	(1973)	(1973)	(1973)	(1973)	(1973)	(1973)	(1973)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1973 - 2004	
ANNUAL TOTAL	24.59		14,318.72			
ANNUAL MEAN	0.07		39.1		5.29	
HIGHEST ANNUAL MEAN					39.1	2004
LOWEST ANNUAL MEAN					0.00	1976
HIGHEST DAILY MEAN	20	Oct 8	12,400	Apr 4	12,400	Apr 4, 2004
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Jan 1, 1973
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Jan 1, 1973
MAXIMUM PEAK FLOW			74,300	Apr 4	74,300	Apr 4, 2004
MAXIMUM PEAK STAGE			20.12	Apr 4	20.12	Apr 4, 2004
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Oct 1, 1993
ANNUAL RUNOFF (AC-FT)	49		28,400		3,830	
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

08405200 PECOS RIVER BELOW DARK CANYON DRAW, AT CARLSBAD, NM

LOCATION.--Lat 32°24'37", long 104°12'58", in NE ¼ SW ¼ NW ¼ 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).

PERIOD OF RECORD.--January 1970 to current year.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 3,075.19 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Water-discharge records good except for those estimated, which are poor. Flow regulated by Lake Avalon (station 08403800) 8.1 mi upstream and by several other reservoirs and up to Nov. 1982 at low stages by power plant. Power plant discontinued operation Nov. 1982. Diversions and ground-water withdrawals upstream from station for irrigation of about 198,000 acres; supplemental ground-water withdrawals irrigate about 23,000 acres downstream, 1959 determination.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 23, 1966, reached a stage of about 22 ft, discharge not determined. (For dates of other historical floods see station 08404000.)

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.19	6.3	7.8	7.5	7.1	8.4	18	19	24	28	37
2	0.00	0.18	6.5	7.6	6.5	8.2	12	17	18	e21	27	37
3	0.00	0.17	6.6	7.9	6.8	9.8	697	19	17	e22	27	17
4	0.00	0.14	6.8	7.0	7.4	22	20,800	20	18	e22	27	25
5	0.00	0.12	5.6	6.5	7.5	5.7	789	20	19	e21	25	29
6	0.00	0.10	5.7	6.5	6.5	8.0	720	20	18	e21	29	26
7	0.00	0.16	7.3	6.8	6.6	8.2	124	20	19	27	29	29
8	0.49	0.14	8.6	7.4	7.3	8.2	69	20	20	24	30	31
9	1.1	0.14	5.4	6.9	6.4	8.3	42	21	19	22	28	28
10	0.23	0.21	5.6	6.9	7.4	8.6	26	21	17	20	28	16
11	0.18	0.16	6.5	7.2	8.5	9.5	24	21	15	18	29	24
12	0.13	0.12	6.8	8.0	9.6	23	29	20	15	20	60	23
13	0.23	0.07	6.7	7.4	e8.8	15	25	19	20	20	224	23
14	0.07	0.84	6.6	7.2	7.4	11	23	18	26	18	58	22
15	0.14	3.8	e5.5	8.8	7.6	13	21	20	26	17	41	31
16	0.15	4.0	e5.0	9.4	7.8	13	20	21	22	19	40	35
17	0.10	5.5	e5.2	9.3	7.6	11	18	22	21	19	36	21
18	0.17	2.7	6.0	6.5	8.2	9.4	19	21	22	19	35	16
19	0.17	2.3	6.0	7.2	9.5	9.8	20	21	22	21	35	18
20	0.17	101	6.5	7.4	6.4	10	19	29	24	19	34	29
21	0.13	441	6.6	7.1	8.2	7.6	18	23	23	18	34	28
22	0.18	478	7.7	6.9	8.0	9.0	19	20	20	20	38	27
23	0.17	475	5.2	7.1	8.6	9.6	20	20	19	19	35	26
24	0.13	477	6.8	9.1	27	9.8	15	20	19	34	30	23
25	0.08	470	7.7	8.6	8.5	9.2	20	23	18	329	30	24
26	0.11	293	7.0	4.7	8.7	10	18	23	86	253	30	55
27	0.14	10	7.7	6.5	9.2	9.8	22	27	27	67	44	65
28	0.13	5.5	6.1	7.1	10	8.2	26	22	21	61	53	62
29	0.21	6.6	6.4	7.6	8.5	8.3	19	21	22	32	49	68
30	0.17	6.8	6.9	7.3	---	8.3	21	20	24	29	69	136
31	0.15	---	7.1	7.8	---	8.5	---	19	---	27	63	---
TOTAL	4.93	2,784.94	200.4	229.5	248.0	317.1	23,703.4	646	676	1,303	1,345	1,031
MEAN	0.16	92.8	6.46	7.40	8.55	10.2	790	20.8	22.5	42.0	43.4	34.4
MAX	1.1	478	8.6	9.4	27	23	20,800	29	86	329	224	136
MIN	0.00	0.07	5.0	4.7	6.4	5.7	8.4	17	15	17	25	16
AC-FT	9.8	5,520	397	455	492	629	47,020	1,280	1,340	2,580	2,670	2,040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2004, BY WATER YEAR (WY)

MEAN	80.5	73.9	48.5	35.1	36.8	28.3	41.4	51.6	97.9	55.0	34.2	97.8
MAX	727	527	367	319	305	249	790	702	2,041	345	674	1,250
(WY)	(1975)	(1987)	(1992)	(1987)	(1987)	(1987)	(2004)	(1973)	(1986)	(1986)	(1984)	(1974)
MIN	0.16	8.07	6.27	7.40	8.55	6.02	0.09	0.31	0.26	0.00	0.00	0.00
(WY)	(2004)	(1978)	(1991)	(2004)	(2004)	(1978)	(1972)	(2003)	(2003)	(2003)	(2003)	(2003)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1970 - 2004	
ANNUAL TOTAL	5,584.79		32,489.27			
ANNUAL MEAN	15.3		88.8		57.3	
HIGHEST ANNUAL MEAN					242	1987
LOWEST ANNUAL MEAN					10.9	1977
HIGHEST DAILY MEAN	478	Nov 22	20,800	Apr 4	22,800	Jun 24, 1986
LOWEST DAILY MEAN	0.00	Apr 11	0.00	Oct 1	0.00	Jun 16, 1971
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 17	0.00	Oct 1	0.00	Apr 16, 1972
MAXIMUM PEAK FLOW			73,000	Apr 4	73,000	Apr 4, 2004
MAXIMUM PEAK STAGE			20.80	Apr 4	20.80	Apr 4, 2004
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Apr 17, 2003
ANNUAL RUNOFF (AC-FT)	11,080		64,440		41,500	
10 PERCENT EXCEEDS	32		37		47	
50 PERCENT EXCEEDS	0.18		17		18	
90 PERCENT EXCEEDS	0.00		0.18		3.5	

e Estimated

08405301 RATTLESNAKE SPRINGS EAST NEAR WHITES CITY, NM

LOCATION.--Lat 32°06'32", long 104°28'17", in SW ¼ SE ¼ NW ¼ sec.23, T.25 S., R.24 E., Eddy County, Hydrologic Unit 13060011, upstream from all diversions, 8 mi south of Whites City, and 22 mi southwest of Carlsbad.

PERIOD OF RECORD.--October 2003 to September 2004.

GAGE.--Water-stage recorder. Elevation of gage is 3,650 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1.6 ft^3/s, Nov. 1, 2003; minimum, 0.05 ft^3/s, July 26, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.6 ft^3/s, Nov. 1, 2003; minimum daily, 0.05 ft^3/s, July 26, 2004.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.33	1.2	1.3	0.50	1.0	0.80	0.95	0.50	0.19	e0.26	0.14	e0.90
2	0.32	0.92	0.90	0.50	1.0	0.69	1.1	0.45	0.19	e0.28	0.14	e0.90
3	0.31	0.91	0.59	0.50	1.0	0.74	0.97	0.42	0.19	e0.28	0.35	e0.90
4	0.27	0.91	0.58	0.50	1.0	0.74	1.0	0.38	0.20	e0.30	1.1	e0.34
5	0.27	0.76	0.61	0.50	1.0	0.72	1.1	0.34	0.20	e0.34	1.2	e0.34
6	0.27	0.67	0.54	0.49	1.0	0.72	1.3	0.32	0.20	e0.34	1.3	e0.34
7	0.27	0.67	0.51	0.41	0.99	0.72	1.1	0.40	0.20	e0.34	1.3	e0.34
8	0.27	0.67	0.51	0.41	0.99	0.72	1.1	0.41	0.20	e0.34	e1.3	e0.34
9	0.29	0.66	0.49	0.57	1.0	0.75	1.3	0.36	0.20	0.31	e1.0	e0.34
10	0.30	0.61	0.49	0.66	1.0	0.81	1.4	0.33	0.23	0.31	e1.0	e0.34
11	0.27	0.58	0.50	0.63	1.1	0.81	1.4	0.31	0.24	0.31	e1.0	e0.38
12	0.27	0.56	0.50	0.63	1.2	0.83	1.2	0.25	0.24	0.30	e1.0	e0.38
13	0.27	0.54	0.50	0.63	1.1	0.81	1.1	0.21	0.24	0.26	e1.0	e0.38
14	0.27	0.54	0.48	0.64	0.97	0.87	1.1	0.18	0.24	0.24	e1.0	e0.38
15	0.27	0.54	0.42	0.76	0.96	0.86	1.3	0.15	0.26	0.24	e1.0	e0.30
16	e0.27	0.48	0.39	0.81	0.96	0.83	1.3	0.15	0.27	0.24	e1.0	e0.30
17	e0.24	0.46	0.38	0.72	0.89	0.75	1.2	0.17	e0.24	0.24	e1.0	e0.30
18	e0.24	0.58	0.38	0.71	0.79	0.76	1.3	0.18	e0.24	0.24	e1.2	e0.30
19	e0.24	0.78	0.38	0.67	0.82	0.76	1.3	e0.20	e0.24	0.22	e1.2	e0.30
20	e0.24	0.81	0.38	0.67	0.81	0.77	1.3	e0.20	e0.24	0.21	e1.2	e0.30
21	0.24	0.81	0.38	0.67	0.79	0.74	1.3	e0.20	e0.22	0.21	e1.2	e0.30
22	0.24	1.0	0.38	0.67	0.81	0.55	1.3	0.21	e0.22	0.18	e1.4	e0.30
23	e0.23	1.4	0.38	0.67	0.81	0.59	1.2	0.18	e0.22	0.12	e1.4	e0.32
24	e0.24	1.4	0.38	0.67	0.81	0.59	0.80	0.18	e0.22	0.11	e1.4	0.18
25	e0.24	1.4	0.38	0.83	0.92	0.66	0.76	0.18	e0.22	0.10	e1.2	0.11
26	e1.3	1.3	0.41	1.1	0.97	0.69	0.73	0.18	e0.23	0.08	e1.2	0.08
27	e1.3	1.3	0.47	1.1	0.96	0.62	0.70	0.17	e0.23	0.17	e1.2	0.07
28	1.3	1.3	0.50	1.1	0.87	0.64	0.67	0.18	e0.24	0.22	e1.2	0.29
29	1.3	1.3	0.50	1.1	0.85	0.77	0.60	0.18	e0.24	0.18	e1.2	0.88
30	1.3	1.3	0.50	1.1	---	0.90	0.55	0.18	e0.24	0.18	e0.90	1.0
31	1.2	---	0.50	1.1	---	0.91	---	0.18	---	0.16	e0.90	---
TOTAL	14.37	26.36	15.61	22.02	27.37	23.12	32.43	7.93	6.73	7.31	32.63	11.93
MEAN	0.46	0.88	0.50	0.71	0.94	0.75	1.08	0.26	0.22	0.24	1.05	0.40
MAX	1.3	1.4	1.3	1.1	1.2	0.91	1.4	0.50	0.27	0.34	1.4	1.0
MIN	0.23	0.46	0.38	0.41	0.79	0.55	0.55	0.15	0.19	0.08	0.14	0.07
AC-FT	29	52	31	44	54	46	64	16	13	14	65	24

WTR YR 2004 TOTAL 227.81 MEAN 0.62 MAX 1.4 MIN 0.07 AC-FT 452

e Estimated

08405303 RATTLESNAKE SPRINGS NORTH NEAR WHITES CITY, NM

LOCATION.--Lat 32°06'38", long 104°28'16", in SW ¼ SE ¼ NW ¼ sec.23, T.25 S., R.24 E., Eddy County, Hydrologic Unit 13060011, upstream from all diversions, 8 mi south of Whites City, and 22 mi southwest of Carlsbad.

PERIOD OF RECORD.--October 2003 to September 2004.

GAGE.--Water-stage recorder. Elevation of gage is 3,650 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2.1 ft^3/s, Sept. 27, 2004; minimum, 0.04 ft^3/s, June 17, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.1 ft^3/s, Sept. 27, 2004; minimum, 0.04 ft^3/s, June 17, 2004.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.33	e0.43	0.39	0.50	0.89	1.1	0.48	0.60	0.19	0.32	1.3	1.2
2	0.43	e0.43	0.51	0.49	0.87	1.2	0.46	0.58	0.18	0.32	1.3	1.4
3	0.48	e0.43	0.63	0.53	0.89	1.2	0.49	0.47	0.20	0.38	1.2	0.86
4	0.49	e0.44	0.63	0.52	0.90	1.2	0.52	0.49	0.19	0.41	0.60	0.90
5	0.58	e0.44	0.54	0.73	0.90	1.2	0.64	0.53	0.17	0.42	0.45	0.89
6	0.63	e0.44	0.61	0.91	0.90	1.2	0.61	0.49	0.12	0.44	0.46	0.84
7	0.66	e0.45	0.63	1.1	0.92	1.2	0.84	0.42	0.11	0.44	0.51	0.84
8	0.78	e0.45	0.69	1.1	0.94	1.5	0.87	0.44	0.11	0.33	0.49	0.78
9	0.85	e0.45	0.72	0.97	0.93	1.4	0.68	0.44	0.14	0.29	0.50	0.66
10	0.76	e0.46	0.78	0.90	0.91	1.4	0.51	0.39	0.19	0.26	0.47	0.56
11	0.73	e0.46	0.81	0.94	0.87	1.4	0.51	0.37	0.14	0.25	0.75	0.49
12	0.76	e0.47	0.84	0.94	0.82	1.4	0.75	0.37	0.13	0.29	0.95	0.49
13	0.82	e0.47	0.90	0.96	0.83	1.4	0.77	0.34	0.12	0.27	1.00	0.50
14	0.75	e0.48	0.87	0.96	0.90	1.1	0.77	0.29	0.10	0.25	1.1	0.45
15	0.80	e0.48	0.80	0.87	0.93	0.88	0.69	0.28	0.09	0.25	1.0	0.45
16	0.81	e0.49	0.71	0.91	0.94	0.87	0.63	0.27	0.08	0.28	1.1	0.41
17	0.81	e0.49	0.71	1.0	1.0	0.87	0.63	0.24	0.07	0.29	1.1	0.27
18	0.77	e0.50	0.74	1.0	1.1	0.85	e0.60	0.23	0.10	0.28	1.1	0.24
19	0.78	0.70	0.74	1.1	1.1	0.81	e0.50	0.24	0.13	0.28	1.1	0.23
20	0.82	0.69	0.70	1.1	1.3	0.83	e0.45	0.23	0.11	0.25	1.1	0.19
21	0.83	0.71	0.71	1.0	1.3	0.83	e0.44	0.19	0.09	0.20	1.0	0.40
22	0.92	0.61	0.84	1.0	1.3	0.90	e0.43	0.18	0.09	0.19	0.99	0.90
23	0.99	0.36	0.87	1.0	1.3	0.88	0.45	0.18	0.09	0.21	0.91	1.1
24	0.81	0.34	0.89	1.1	1.3	0.87	0.69	0.18	0.07	0.18	1.1	1.2
25	0.50	0.36	0.88	0.95	1.2	0.80	0.73	0.18	0.07	0.24	1.1	1.3
26	0.46	0.34	0.75	0.75	1.1	0.67	0.74	0.19	0.10	0.43	1.2	1.8
27	0.44	0.30	0.70	0.72	1.1	0.65	0.68	0.20	0.10	0.70	1.1	2.1
28	0.42	0.35	0.74	0.69	1.1	0.60	0.64	0.23	0.11	0.87	1.1	1.3
29	0.41	0.41	0.77	0.74	1.1	0.56	0.60	0.21	0.24	1.0	1.1	1.4
30	e0.42	0.46	0.79	0.79	---	0.48	0.60	0.20	0.29	1.1	1.1	1.5
31	e0.42	---	0.60	0.87	---	0.46	---	0.22	---	1.2	1.1	---
TOTAL	20.46	13.89	22.49	27.14	29.64	30.71	18.40	9.87	3.92	12.62	29.38	25.65
MEAN	0.66	0.46	0.73	0.88	1.02	0.99	0.61	0.32	0.13	0.41	0.95	0.85
MAX	0.99	0.71	0.90	1.1	1.3	1.5	0.87	0.60	0.29	1.2	1.3	2.1
MIN	0.33	0.30	0.39	0.49	0.82	0.46	0.43	0.18	0.07	0.18	0.45	0.19
AC-FT	41	28	45	54	59	61	36	20	7.8	25	58	51

WTR YR 2004 TOTAL 244.17 MEAN 0.67 MAX 2.1 MIN 0.07 AC-FT 484

e Estimated

08405450 BLUE SPRINGS ABOVE DIVERSIONS NEAR WHITES CITY, NM

LOCATION.--Lat 32°11'07", long 104°16'50", in SW ¼ NE ¼ SW ¼ 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.

PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,110 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for those estimated, which are fair. Station located above all known diversions. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 23 ft^3/s, Sept. 25, 2004; minimum discharge, 6.4 ft^3/s, Sept. 6, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 23 ft^3/s, Sept. 25; minimum discharge, 6.9 ft^3/s, Oct. 2.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	8.3	8.0	8.6	9.2	16	14	9.9	9.3	9.2	8.3	12
2	7.3	8.3	7.9	8.6	9.3	16	14	9.9	9.7	9.2	8.7	e12
3	7.4	8.4	8.0	9.0	9.7	16	14	9.9	10	9.1	9.0	e13
4	7.7	8.7	7.9	9.1	9.7	16	16	9.9	10	9.3	9.0	e13
5	7.6	8.7	7.6	9.1	9.9	16	15	10	9.9	9.3	8.9	e13
6	7.6	8.6	7.7	8.9	10	16	12	10	9.8	9.3	9.1	e12
7	7.6	8.6	7.7	9.1	10	14	12	10	9.7	9.2	9.1	e13
8	8.4	8.6	7.8	9.1	10	12	12	10	9.6	9.3	9.1	e12
9	7.9	8.6	7.8	9.1	10	12	12	10	9.8	9.3	9.3	e13
10	8.0	8.7	7.8	9.1	10	12	12	10	9.7	9.2	9.5	e13
11	7.9	8.8	7.8	9.3	11	12	12	10	9.6	9.2	9.7	e13
12	7.8	8.8	7.8	9.4	11	12	12	10	9.5	9.1	9.7	e14
13	7.9	9.0	7.8	9.4	11	12	12	10	9.5	9.1	10	e13
14	7.7	9.0	7.8	9.4	11	12	12	10	9.6	9.0	10	e13
15	7.8	8.8	7.8	9.9	11	11	11	10	9.6	8.9	11	e13
16	7.7	8.8	7.8	11	11	12	11	10	9.6	8.7	11	e14
17	7.7	8.8	7.8	11	11	12	11	10	9.6	8.8	11	14
18	7.7	8.8	8.0	11	11	12	11	10	9.5	8.8	11	14
19	7.5	8.9	8.0	11	11	12	11	10	9.3	8.9	12	14
20	7.5	8.9	8.0	11	11	12	11	11	9.3	8.9	12	14
21	7.5	8.8	8.0	11	12	12	10	9.9	9.3	9.0	12	14
22	7.5	8.6	8.0	11	14	12	10	10	9.3	9.0	12	14
23	7.6	8.5	8.0	9.6	14	12	9.9	10	9.5	9.0	12	14
24	7.7	8.5	8.0	8.6	15	12	9.9	10	9.8	8.9	12	14
25	7.7	8.6	8.0	8.7	15	12	9.8	10	9.9	e13	12	16
26	8.2	8.5	8.3	8.7	15	12	9.9	10	10	8.9	12	e18
27	8.0	8.1	8.3	8.6	16	12	9.8	10	9.2	9.0	12	e15
28	7.9	8.3	8.4	8.6	16	12	10	9.5	9.4	8.8	13	e16
29	8.0	8.2	8.5	8.9	16	12	9.9	9.4	9.4	8.6	14	e16
30	8.1	8.0	8.6	8.9	---	13	10	9.3	9.3	8.3	13	e23
31	8.1	---	8.6	9.0	---	14	---	9.4	---	8.2	12	---
TOTAL	240.2	258.2	247.5	293.7	340.8	400	346.2	308.1	287.7	282.5	333.4	422
MEAN	7.75	8.61	7.98	9.47	11.8	12.9	11.5	9.94	9.59	9.11	10.8	14.1
MAX	8.4	9.0	8.6	11	16	16	16	11	10	13	14	23
MIN	7.2	8.0	7.6	8.6	9.2	11	9.8	9.3	9.2	8.2	8.3	12
AC-FT	476	512	491	583	676	793	687	611	571	560	661	837

CAL YR	2003	TOTAL	3,500.9	MEAN	9.59	MAX	17	MIN	6.7	AC-FT	6940
WTR YR	2004	TOTAL	3,760.3	MEAN	10.3	MAX	23	MIN	7.2	AC-FT	7460

e Estimated

08405500 BLACK RIVER ABOVE MALAGA, NM

LOCATION.--Lat 32°13'44", long 104°09'02", in SW ¼ NW ¼ SW ¼ sec.12, T.24 S., R.27 E., Eddy County, Hydrologic Unit 13060011, on right bank 0.6 mi upstream from Black River diversion dam, 4.8 mi west of Malaga, and 7.1 mi upstream from mouth. Mouth at Pecos River mile 436.3.

DRAINAGE AREA.--343 mi^2.

PERIOD OF RECORD.--March to December 1940, December 1946 to current year.

REVISED RECORDS.--WSP 1632: 1948, 1949-50(P).

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 3,070 ft above National Geodetic Vertical Datum of 1929, from topographic map. Mar. to Dec. 1940, water-stage recorder and Cippoletti weir at site 0.3 mi downstream at different datum.

REMARKS.--Records good except for those estimated, which are poor. Diversions and ground-water withdrawals for irrigation of about 1,000 acres, 1959 determination, upstream from station. Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 20 or 21, 1941, reached a stage of 19.0 ft, present site and datum, determined in 1947 from well-defined floodmarks, discharge, 33,000 ft^3/s, from rating curve extended above 1,400 ft^3/s on basis of slope-area measurements at gage heights 8.41 ft and 12.60 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.8	4.3	4.8	4.6	5.8	5.2	5.6	3.6	4.4	e4.2	4.9
2	3.0	4.0	4.3	4.8	4.5	6.1	5.4	5.6	3.7	4.5	e4.6	4.7
3	3.1	4.0	4.3	4.8	4.5	6.5	5.6	5.3	3.8	5.4	e4.6	4.5
4	3.3	3.7	4.3	4.8	4.6	7.4	341	5.0	4.0	5.2	e4.4	e4.4
5	3.4	3.6	4.3	4.7	4.7	7.0	75	5.9	4.2	4.0	e4.4	e4.4
6	3.4	3.8	4.3	4.7	4.7	6.6	40	6.1	4.2	3.4	e4.3	e4.4
7	3.4	4.0	4.3	4.7	4.7	6.7	14	5.9	4.0	3.3	e4.3	e4.4
8	3.9	4.2	4.3	4.7	4.7	6.6	9.7	5.7	3.9	6.5	e4.3	e4.6
9	4.7	4.3	4.2	4.8	4.7	6.4	8.0	5.4	4.0	5.0	e4.3	e4.4
10	5.3	4.3	4.3	4.8	4.7	6.0	7.2	5.3	6.2	4.0	e4.2	e4.3
11	4.1	4.3	4.3	4.7	4.7	5.7	7.0	5.0	4.4	3.2	e4.2	e4.3
12	4.4	4.3	4.3	4.9	5.2	6.5	7.0	5.2	3.8	3.0	e4.5	e4.3
13	3.9	4.1	4.3	4.9	5.2	6.9	7.0	5.2	3.7	2.5	e4.5	e4.4
14	3.6	4.4	4.3	4.7	5.2	6.7	6.7	5.0	3.6	3.0	e4.4	e4.4
15	3.4	4.5	4.4	4.9	5.1	6.2	6.7	5.1	3.7	3.0	e4.4	e4.4
16	3.4	4.4	4.2	5.0	5.0	5.2	6.6	5.3	3.6	2.8	e4.3	e4.8
17	3.4	4.3	4.3	5.1	4.9	4.2	6.5	5.4	3.8	2.8	e4.3	e4.8
18	3.6	4.2	4.3	5.2	4.7	5.0	6.5	5.1	4.1	2.7	e4.2	e4.8
19	3.4	4.1	4.4	5.2	4.8	5.0	6.3	4.8	3.8	2.8	e4.2	e5.0
20	3.4	4.1	4.5	5.2	4.7	5.1	6.4	4.6	3.8	4.1	e4.2	e5.0
21	3.4	4.1	4.4	5.2	4.7	5.6	6.0	9.3	4.0	3.1	e4.0	e15
22	3.4	4.2	4.5	5.2	4.7	6.1	6.0	13	4.1	2.6	e4.0	e100
23	3.4	4.1	4.4	5.2	5.0	5.4	5.9	6.7	4.0	2.6	e3.8	e26
24	3.4	4.1	4.5	5.2	5.9	4.7	5.7	5.1	3.8	e3.1	e3.8	15
25	3.4	4.2	4.5	5.1	5.8	4.1	5.9	4.6	3.0	e3.1	e3.6	96
26	3.7	4.3	4.7	4.5	5.9	5.2	5.7	4.7	64	e3.2	e3.6	111
27	3.8	4.0	4.7	4.3	5.9	5.2	5.9	4.7	33	e3.4	3.5	133
28	3.8	4.0	4.5	4.5	6.0	5.2	6.0	4.7	9.5	e3.5	3.5	45
29	3.7	4.1	4.5	4.8	5.9	4.8	6.0	4.5	6.2	e3.5	3.4	106
30	3.6	4.3	4.7	4.9	---	5.0	5.9	4.0	4.6	e3.6	5.3	912
31	3.6	---	4.7	4.9	---	5.2	---	3.8	---	e3.8	4.1	---
TOTAL	112.3	123.8	136.3	151.2	145.7	178.1	636.8	171.6	216.1	111.1	129.4	1,650.2
MEAN	3.62	4.13	4.40	4.88	5.02	5.75	21.2	5.54	7.20	3.58	4.17	55.0
MAX	5.3	4.5	4.7	5.2	6.0	7.4	341	13	64	6.5	5.3	912
MIN	3.0	3.6	4.2	4.3	4.5	4.1	5.2	3.8	3.0	2.5	3.4	4.3
AC-FT	223	246	270	300	289	353	1,260	340	429	220	257	3,270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2004, BY WATER YEAR (WY)

MEAN	12.6	9.33	9.54	10.4	10.2	7.19	10.6	12.2	14.7	14.2	22.6	19.9
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	2.99	3.04
(WY)	(1980)	(1978)	(1964)	(1964)	(1960)	(1978)	(1978)	(1974)	(1974)	(1974)	(2003)	(2003)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1948 - 2004	
ANNUAL TOTAL	1,996.9		3,762.6			
ANNUAL MEAN	5.47		10.3		12.8	
HIGHEST ANNUAL MEAN					58.3	1966
LOWEST ANNUAL MEAN					6.10	2003
HIGHEST DAILY MEAN	75	Mar 15	912	Sep 30	12,000	Aug 23, 1966
LOWEST DAILY MEAN	2.7	Aug 9	2.5	Jul 13	0.01	Sep 30, 1998
ANNUAL SEVEN-DAY MINIMUM	2.8	Aug 3	2.8	Jul 13	1.0	Nov 9, 1977
MAXIMUM PEAK FLOW			3,220	Sep 30	a74,600	Aug 23, 1966
MAXIMUM PEAK STAGE			7.93	Sep 30	b21.70	Aug 23, 1966
INSTANTANEOUS LOW FLOW			2.1	Jul 24	0.00	Sep 30, 1998
ANNUAL RUNOFF (AC-FT)	3,960		7,460		9,270	
10 PERCENT EXCEEDS	7.5		6.5		14	
50 PERCENT EXCEEDS	4.3		4.5		8.0	
90 PERCENT EXCEEDS	3.0		3.4		4.1	

a From rating curve extended above 5,900 ft^3/s, on basis of slope-area measurement at gage heights 12.60 ft and 21.7 ft
b From floodmarks
e Estimated

08406000 BLACK RIVER AT MALAGA, NM

LOCATION.--Lat 32°14'58", long 104°03'53", in SW ¼ NW ¼ SE ¼ sec.2, T.24 S., R.28 E., Eddy County, Hydrologic Unit 13060011, on left bank of Black River, about 1.3 mi upstream from the mouth of Pecos River.

DRAINAGE AREA.--350 mi^2, approximately.

PERIOD OF RECORD.--February 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,910 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,940 ft^3/s, Apr. 4, 2004, gage height, 25.73 ft, from floodmarks; minimum, 1.3 ft^3/s, Aug. 8, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,940 ft^3/s, Apr. 4, gage height, 25.73 ft; minimum, 1.5 ft^3/s, Aug. 31, 2004.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.7	5.9	5.2	1.7	2.3	4.2	2.1	1.9	5.5	6.4	3.0
2	1.8	4.2	5.9	5.4	1.8	2.3	4.2	2.2	1.8	4.8	6.5	3.9
3	2.2	4.4	5.9	5.3	1.8	2.6	18	4.0	3.0	3.5	11	2.9
4	2.1	4.4	5.8	5.2	1.8	3.4	1,230	3.3	2.6	2.4	9.4	2.5
5	2.0	4.5	5.9	5.0	1.8	3.9	160	2.8	4.0	2.0	7.9	4.3
6	1.9	4.6	6.1	4.0	1.8	4.6	83	2.6	4.7	1.9	7.6	4.7
7	1.9	4.8	6.2	3.1	1.8	3.2	31	2.4	3.3	1.8	7.6	4.6
8	2.5	5.1	6.3	2.8	1.9	2.9	19	2.2	4.0	1.9	7.1	3.9
9	2.1	5.3	6.3	2.5	1.9	2.8	13	2.4	10	3.3	9.5	2.8
10	2.1	5.3	6.1	2.3	1.9	2.9	10	2.8	7.5	2.5	9.8	2.4
11	2.9	5.5	6.2	2.4	2.0	2.9	8.0	4.2	5.4	4.2	11	2.3
12	2.7	5.5	6.3	2.4	2.5	3.2	7.8	6.8	5.5	9.4	15	2.9
13	2.2	5.4	6.4	2.4	2.3	3.2	7.5	5.3	5.3	3.1	63	2.8
14	2.1	5.6	6.5	2.3	4.5	3.1	7.4	2.8	4.3	2.7	25	3.4
15	2.1	5.8	6.5	2.2	4.3	3.2	7.2	2.4	3.9	2.7	16	12
16	2.1	5.8	6.5	2.5	2.7	4.9	6.8	2.5	3.6	4.3	9.5	18
17	2.2	5.7	6.1	3.5	2.2	6.1	6.6	3.2	6.2	11	e4.0	15
18	2.1	5.8	5.7	2.6	2.1	5.3	4.4	5.8	6.2	5.5	e3.5	5.4
19	2.1	5.6	5.2	2.3	2.1	5.8	3.1	2.8	7.4	5.4	3.6	3.0
20	2.0	5.7	5.2	2.1	2.0	6.1	3.0	2.4	5.4	4.2	5.6	2.6
21	2.0	5.7	5.3	2.0	2.5	6.0	2.7	2.4	4.7	3.1	8.8	3.0
22	2.0	5.6	5.4	2.1	2.2	6.9	2.6	12	4.4	2.4	8.8	284
23	1.9	5.6	5.3	2.2	2.0	7.2	2.5	7.5	3.7	2.3	10	38
24	1.9	5.5	5.3	2.1	2.5	6.5	2.3	4.1	3.4	2.6	5.5	11
25	1.9	5.7	5.2	2.0	2.2	6.1	2.3	2.9	3.2	90	5.5	77
26	2.2	5.8	5.0	1.9	2.2	5.5	2.2	2.5	12	268	3.4	97
27	2.1	5.8	5.0	2.1	2.5	6.4	2.6	2.2	41	51	2.4	158
28	2.1	5.8	4.9	2.1	2.5	6.4	4.5	2.3	9.0	22	2.1	37
29	2.1	5.8	4.9	2.0	2.5	6.6	3.1	2.0	3.8	12	e2.0	102
30	2.1	5.8	5.1	1.7	---	6.3	2.3	1.9	4.1	8.6	1.9	595
31	2.1	---	5.1	1.7	---	5.4	---	1.9	---	7.5	1.5	---
TOTAL	65.1	158.8	177.5	87.4	66.0	144.0	1,661.3	106.7	185.3	551.6	290.9	1,504.4
MEAN	2.10	5.29	5.73	2.82	2.28	4.65	55.4	3.44	6.18	17.8	9.38	50.1
MAX	2.9	5.8	6.5	5.4	4.5	7.2	1,230	12	41	268	63	595
MIN	1.6	2.7	4.9	1.7	1.7	2.3	2.2	1.9	1.8	1.8	1.5	2.3
AC-FT	129	315	352	173	131	286	3,300	212	368	1,090	577	2,980

CAL YR	2003	TOTAL	1,338.1	MEAN	3.67	MAX	53	MIN	1.3	AC-FT 2,650
WTR YR	2004	TOTAL	4,999.0	MEAN	13.7	MAX	1230	MIN	1.5	AC-FT 9,920

e Estimated

08406500 PECOS RIVER NEAR MALAGA, NM

LOCATION.--Lat 32°12'30", long 104°01'20", in SW ¼ NW ¼ NE ¼ sec.19, T.24 S., R.29 E., Eddy County, Hydrologic Unit 13060011, on right bank 3.1 mi southeast of Malaga, 4.3 mi downstream from Black River, and at mile 432.2.

DRAINAGE AREA.--19,190 mi^2, approximately (contributing area).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1920 to current year. Monthly discharge only for some periods, published in WSP 1312.

REVISED RECORDS.--WSP 1632: 1925, 1932-37.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 2,895.64 ft above National Geodetic Vertical Datum of 1929. May 1, 1920, to Mar. 24, 1949, at datum 3 ft higher.

REMARKS.--Water-discharge records fair except for those estimated, which are poor. Flow regulated by many reservoirs and diversion dams. Diversions and ground-water withdrawals upstream from station for irrigation of about 202,000 acres, 1959 determination. Harroun canal bypasses gage on left bank and irrigates approximately 1,000 acres adjacent to and downstream from gage. This bypass is not gaged.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred in 1904, discharge not determined. Flood of Aug. 7, 1916, reached a discharge of 70,000 ft^3/s, at Carlsbad, 27 mi upstream. Flood in Sept. 1919 reached a stage of 29.4 ft, present datum, discharge, 40,400 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	13	34	24	21	25	20	41	32	40	49	97
2	8.3	15	31	26	22	25	20	39	32	38	47	68
3	9.1	15	30	28	21	25	312	40	36	36	46	56
4	11	15	28	28	21	29	15,600	39	36	34	44	47
5	12	14	26	28	21	34	1,480	36	36	33	40	39
6	12	13	25	26	21	41	1,030	37	36	33	39	42
7	11	14	25	24	22	33	437	38	35	31	38	45
8	12	15	26	24	20	26	168	40	34	31	38	44
9	13	15	26	23	19	23	e100	41	36	31	39	44
10	12	16	27	23	19	24	e90	40	37	38	38	45
11	13	17	26	24	20	24	e77	40	35	32	38	44
12	20	18	26	23	21	27	e68	41	34	40	34	35
13	17	17	26	23	23	30	55	42	32	34	91	34
14	14	19	26	23	25	39	51	36	27	31	e240	32
15	13	18	26	24	29	40	49	35	23	29	e124	35
16	13	18	27	25	26	33	49	37	26	24	e66	46
17	12	18	28	26	24	32	49	36	30	30	51	56
18	12	17	28	27	23	30	47	35	40	32	50	54
19	12	17	25	25	23	29	45	30	45	31	47	39
20	11	18	24	26	22	30	46	34	44	28	46	29
21	12	19	25	24	23	29	44	39	38	23	43	26
22	12	360	26	23	24	28	40	45	37	25	42	232
23	11	463	27	23	21	29	37	51	36	29	41	86
24	11	463	28	23	25	28	35	40	36	30	39	53
25	11	471	30	21	28	27	34	36	37	37	46	92
26	11	447	28	21	38	27	38	36	44	601	41	189
27	11	281	27	24	33	27	38	38	134	240	39	228
28	11	96	27	23	28	27	41	43	72	110	39	142
29	12	51	27	20	27	26	42	40	44	74	44	252
30	12	39	26	18	---	25	43	35	39	56	61	766
31	12	---	25	19	---	23	---	33	---	51	68	---
TOTAL	372.2	3,012	836	739	690	895	20,185	1,193	1,203	1,932	1,708	2,997
MEAN	12.0	100	27.0	23.8	23.8	28.9	673	38.5	40.1	62.3	55.1	99.9
MAX	20	471	34	28	38	41	15,600	51	134	601	240	766
MIN	8.3	13	24	18	19	23	20	30	23	23	34	26
AC-FT	738	5,970	1,660	1,470	1,370	1,780	40,040	2,370	2,390	3,830	3,390	5,940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2004, BY WATER YEAR (WY)

MEAN	253	149	118	104	90.2	64.0	64.5	198	159	105	140	253
MAX	5,302	1,338	822	738	557	290	697	6,887	2,984	1,171	4,200	6,975
(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	8.14
(WY)	(1978)	(1978)	(1978)	(1978)	(1965)	(1978)	(1965)	(1978)	(1977)	(1977)	(1977)	(2003)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1938 - 2004	
ANNUAL TOTAL	11,036.7		35,762.2			
ANNUAL MEAN	30.2		97.7		a142	
HIGHEST ANNUAL MEAN					1,652	1941
LOWEST ANNUAL MEAN					16.8	1977
HIGHEST DAILY MEAN	471	Nov 25	15,600	Apr 4	68,000	Aug 23, 1966
LOWEST DAILY MEAN	6.3	Jul 15	8.3	Oct 2	3.7	May 20, 1991
ANNUAL SEVEN-DAY MINIMUM	6.4	Aug 3	10	Oct 1	4.5	May 18, 1991
MAXIMUM PEAK FLOW			45,300	Apr 4	b120,000	Aug 23, 1966
MAXIMUM PEAK STAGE			30.30	Apr 4	c42.10	Aug 23, 1966
INSTANTANEOUS LOW FLOW			8.3	Oct 3	3.7	Oct 20, 1976
ANNUAL RUNOFF (AC-FT)	21,890		70,930		102,600	
10 PERCENT EXCEEDS	58		68		190	
50 PERCENT EXCEEDS	15		31		52	
90 PERCENT EXCEEDS	6.8		15		15	

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.
e Estimated

08406500 PECOS RIVER NEAR MALAGA, NM—Continued

WATER-QUALITY RECORDS

LOCATION.--Once-daily samples collected 2.5 mi upstream from discharge station.

PERIOD OF RECORD.--Water years 1937 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1937 to June 1986, March 2003 to current year.
WATER TEMPERATURE: February 1959 to June 1986, March 2003 to September 2003.

INSTRUMENTATION.--Specific conductance and thermistor since March 2003. Hourly data logged.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 28,100 microsiemens, June 7, 1966; minimum daily, 402 microsiemens, Aug. 12, 1984.
WATER TEMPERATURE: Maximum daily, 34.0 °C, Aug. 4, 2003; minimum daily, 2.0 °C, Dec. 25 and 26, 1983.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 11,800 microsiemens, Oct. 3; minimum daily, 622 microsiemens, Apr. 4.
WATER TEMPERATURE: Maximum daily, 33.6 °C, July 5; minimum daily, 4.1 °C, Dec. 30.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Residue on evap. at 180degC wat flt mg/L (70300)
OCT 31...	0930	12	10,200	16.7	14.8	7,290
NOV 28...	1020	98	6,430	10.0	8.2	3,960
DEC 22...	0940	26	7,300	5.0	7.0	4,480
JAN 30...	1310	19	7,370	12.0	10.2	5,250
FEB 26...	1400	41	6,820	20.0	15.0	5,070
MAR 29...	1030	26	5,890	25.0	19.3	4,280
APR 27...	1000	37	5,540	21.2	21.3	3,700
JUN 25...	0950	37	6,610	24.8	25.7	4,670
JUL 23...	0920	28	6,470	29.0	28.1	3,700
AUG 31...	1208	68	4,880	26.0	26.4	3,390

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10,100	9,320	9,510	10,300	10,000	10,100	---	---	---	7,870	7,580	7,700
2	9,990	9,180	9,370	10,100	9,850	9,980	---	---	---	7,880	7,540	7,720
3	11,800	9,170	10,500	9,850	9,610	9,760	---	---	---	8,010	7,800	7,880
4	11,100	10,500	10,900	9,610	9,340	9,510	6,630	6,560	6,590	8,160	7,800	7,970
5	10,600	9,780	10,300	9,350	9,120	9,270	6,610	6,580	6,590	8,080	7,780	7,940
6	10,000	9,360	9,700	9,120	8,890	9,010	6,620	6,570	6,600	7,880	7,680	7,790
7	9,790	9,340	9,440	8,890	8,700	8,790	6,680	6,600	6,640	8,210	7,840	8,000
8	9,400	9,010	9,240	8,700	8,580	8,650	6,760	6,680	6,720	8,390	7,980	8,180
9	9,280	9,000	9,130	8,580	8,470	8,530	6,790	6,720	6,760	8,440	7,910	8,150
10	9,140	8,570	9,000	8,550	8,420	8,470	6,810	6,750	6,780	8,630	8,240	8,390
11	8,700	8,450	8,580	8,460	8,340	8,400	6,820	6,770	6,800	9,030	8,630	8,850
12	8,640	8,450	8,550	8,340	8,220	8,290	6,870	6,820	6,840	9,120	8,860	8,980
13	8,760	8,400	8,570	8,220	7,990	8,110	6,930	6,830	6,880	9,350	9,090	9,220
14	8,770	8,590	8,660	7,990	7,830	7,910	6,980	6,890	6,940	9,260	9,090	9,170
15	8,820	8,560	8,660	7,900	7,780	7,830	7,040	6,970	7,010	9,210	9,160	9,180
16	9,090	8,710	8,860	7,830	7,700	7,750	7,100	7,010	7,060	9,280	9,180	9,230
17	9,030	8,810	8,900	7,720	7,660	7,690	7,100	7,050	7,080	9,180	9,000	9,100
18	9,190	8,840	8,970	7,780	7,680	7,730	7,140	7,070	7,100	9,070	8,950	9,020
19	9,270	8,940	9,090	7,680	7,510	7,600	7,180	7,120	7,150	8,980	8,690	8,890
20	9,400	9,120	9,240	7,510	7,350	7,450	7,230	7,150	7,190	8,750	8,530	8,650
21	9,440	9,180	9,280	---	---	---	7,290	7,220	7,250	8,780	8,540	8,680
22	9,520	9,220	9,340	---	---	---	---	---	---	8,540	8,390	8,440
23	9,530	9,300	9,410	---	---	---	7,350	6,920	7,170	8,420	8,260	8,370
24	9,890	9,490	9,690	---	---	---	7,540	7,320	7,450	8,260	8,030	8,140
25	9,720	9,600	9,660	---	---	---	7,570	7,000	7,380	8,100	7,980	8,050
26	9,700	9,540	9,610	---	---	---	7,440	6,980	7,280	7,980	7,700	7,830
27	9,860	9,550	9,700	---	---	---	7,550	7,250	7,400	7,890	7,680	7,760
28	9,890	9,690	9,810	---	---	---	7,640	7,280	7,450	7,720	7,450	7,610
29	10,200	9,880	10,000	---	---	---	7,650	7,260	7,440	7,510	7,360	7,420
30	10,200	10,100	10,100	---	---	---	7,460	7,260	7,370	7,860	6,930	7,230
31	10,200	9,840	10,000	---	---	---	7,840	7,460	7,670	7,220	6,940	7,070
MONTH	11,800	8,400	9,410	10,300	7,350	8,540	7,840	6,560	7,060	9,350	6,930	8,280

08406500 PECOS RIVER NEAR MALAGA, NM—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7,520	7,220	7,390	6,620	6,590	6,610	5,910	5,690	5,880	5,790	5,750	5,770
2	7,660	7,520	7,600	6,620	6,600	6,610	5,900	5,730	5,780	5,770	5,720	5,740
3	7,740	7,660	7,720	6,620	6,570	6,600	6,090	5,170	5,820	5,830	5,750	5,800
4	7,760	7,740	7,760	6,580	6,440	6,500	5,170	622	1,670	5,870	5,770	5,840
5	7,800	7,760	7,790	6,480	6,400	6,450	1,590	623	1,020	5,850	5,600	5,790
6	7,810	7,780	7,800	6,400	6,320	6,370	1,520	1,140	1,280	5,600	4,980	5,380
7	7,820	7,780	7,810	6,320	6,240	6,260	2,880	1,360	2,500	5,310	4,980	5,180
8	7,850	7,810	7,830	6,350	6,260	6,300	2,930	2,880	2,920	5,360	5,240	5,300
9	7,830	7,790	7,810	6,430	6,350	6,390	3,070	2,930	3,000	5,690	5,360	5,570
10	7,790	7,720	7,770	6,510	6,430	6,470	3,220	3,070	3,140	5,910	5,690	5,830
11	7,730	7,540	7,670	6,540	6,480	6,520	3,320	3,220	3,280	6,020	5,910	5,970
12	7,540	7,400	7,470	6,480	6,300	6,400	3,400	3,320	3,370	6,140	5,960	6,040
13	7,440	7,370	7,410	6,300	6,200	6,250	3,450	3,400	3,430	6,050	5,970	6,010
14	7,380	7,300	7,350	6,210	6,160	6,180	3,700	3,390	3,510	6,050	5,940	5,980
15	7,300	7,200	7,280	6,210	6,120	6,170	3,800	3,520	3,650	6,020	5,970	5,990
16	7,210	6,830	7,130	6,120	6,090	6,100	3,750	3,610	3,700	6,200	6,020	6,110
17	7,100	6,630	6,970	6,140	6,100	6,120	3,980	3,590	3,810	6,290	6,200	6,250
18	7,180	6,960	7,120	6,130	6,110	6,120	4,100	3,860	3,990	6,290	6,220	6,260
19	7,070	6,780	6,950	6,160	6,100	6,140	4,150	4,080	4,120	6,340	6,240	6,290
20	7,020	6,810	6,950	6,160	6,120	6,150	4,310	4,140	4,260	6,290	6,200	6,240
21	6,840	6,610	6,740	6,120	5,920	6,030	4,360	4,240	4,300	6,440	6,280	6,370
22	6,870	6,680	6,740	6,000	5,910	5,960	4,410	4,250	4,350	6,380	6,250	6,330
23	6,930	6,570	6,770	5,960	5,860	5,920	4,530	4,310	4,440	6,250	6,050	6,150
24	6,830	6,690	6,750	6,000	5,830	5,930	4,950	4,530	4,770	6,120	6,060	6,100
25	6,850	6,680	6,770	5,880	5,790	5,840	5,430	4,950	5,190	6,200	6,120	6,160
26	7,090	6,630	6,720	5,820	5,760	5,790	5,580	5,420	5,490	6,330	6,170	6,250
27	6,650	6,540	6,590	5,930	5,820	5,870	5,580	5,450	5,530	6,270	6,220	6,250
28	6,540	6,480	6,520	6,070	5,930	6,000	5,610	5,560	5,580	6,280	6,210	6,240
29	6,590	6,520	6,550	5,990	5,700	5,810	5,690	5,590	5,640	6,220	6,130	6,190
30	---	---	---	5,850	5,600	5,730	5,760	5,650	5,720	6,170	6,110	6,140
31	---	---	---	5,860	5,710	5,830	---	---	---	6,250	5,960	6,150
MONTH	7,850	6,480	7,230	6,620	5,600	6,170	6,090	622	4,040	6,440	4,980	5,990
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6,780	5,810	6,180	5,980	5,630	5,860	4,350	4,260	4,320	4,880	4,420	4,700
2	6,410	5,640	6,060	5,810	5,600	5,750	4,420	4,310	4,360	4,520	4,440	4,480
3	6,260	5,710	6,060	5,930	5,730	5,810	4,370	4,220	4,300	4,580	4,520	4,550
4	6,470	5,790	6,220	6,020	5,810	5,930	4,340	4,150	4,270	4,540	4,300	4,500
5	6,150	5,700	5,910	6,150	5,900	6,060	4,290	4,120	4,210	4,550	4,380	4,470
6	6,330	6,150	6,250	6,110	5,970	6,030	4,330	4,160	4,270	4,640	4,500	4,570
7	6,490	6,260	6,390	6,150	5,870	6,070	4,250	4,120	4,180	4,720	4,600	4,670
8	6,540	6,230	6,410	6,110	5,670	6,020	4,200	4,030	4,150	4,680	4,580	4,650
9	6,350	6,010	6,240	6,130	5,690	5,990	4,100	4,000	4,060	4,740	4,660	4,690
10	6,270	6,080	6,170	6,160	5,770	6,000	4,070	3,940	4,030	4,740	4,640	4,710
11	6,330	5,930	6,150	6,140	5,760	6,000	3,990	3,910	3,960	4,730	4,630	4,700
12	6,580	6,330	6,470	6,010	5,600	5,940	3,950	3,750	3,920	4,730	4,530	4,680
13	6,550	5,890	6,300	5,970	5,210	5,720	3,800	3,520	3,690	4,890	4,650	4,820
14	6,310	5,890	6,070	5,330	4,830	5,140	3,520	3,330	3,410	5,010	4,820	4,920
15	6,460	5,820	6,100	5,290	4,920	5,110	3,520	3,440	3,470	5,050	4,880	4,990
16	6,790	6,460	6,560	5,490	5,090	5,370	3,710	3,450	3,610	5,060	4,950	5,010
17	6,960	6,780	6,870	5,660	5,440	5,540	3,880	3,690	3,800	5,100	4,720	4,980
18	6,970	6,840	6,920	5,940	5,400	5,750	4,080	3,790	3,990	4,720	4,550	4,580
19	6,840	6,680	6,760	5,840	5,260	5,640	4,210	4,080	4,150	4,670	4,510	4,590
20	6,710	6,670	6,690	6,100	5,270	5,720	4,350	4,180	4,280	4,770	4,670	4,730
21	6,700	6,540	6,640	6,340	5,990	6,160	4,490	4,330	4,420	4,830	4,660	4,770
22	6,630	6,550	6,600	6,460	6,220	6,360	4,630	4,470	4,570	4,960	2,640	3,820
23	6,700	6,630	6,680	6,610	6,360	6,550	4,710	4,600	4,660	3,160	2,640	2,820
24	6,720	6,530	6,640	6,630	6,460	6,570	4,750	4,660	4,710	3,910	3,160	3,630
25	6,620	6,520	6,580	6,480	6,080	6,270	4,820	4,720	4,770	4,410	3,860	4,100
26	6,550	6,350	6,500	---	---	---	4,850	4,770	4,800	4,410	2,760	3,270
27	6,380	5,140	5,800	4,270	4,180	4,230	4,960	4,840	4,910	3,330	2,910	3,070
28	5,910	5,230	5,730	4,320	4,140	4,270	4,980	4,910	4,940	3,450	2,930	3,150
29	5,850	5,670	5,750	4,300	4,110	4,190	4,980	4,870	4,940	3,870	2,990	3,580
30	5,860	5,640	5,770	4,300	4,140	4,230	4,980	4,920	4,930	2,990	1,450	2,050
31	---	---	---	4,360	4,220	4,310	4,930	4,760	4,870	---	---	---
MONTH	6,970	5,140	6,320	6,630	4,110	5,620	4,980	3,330	4,290	5,100	1,450	4,280
YEAR	11,800	622	6,370									

08406500 PECOS RIVER NEAR MALAGA, NM—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	25.6	21.2	23.1	20.8	16.7	18.3	10.8	8.6	9.7	8.4	5.8	7.1
2	25.7	20.8	22.8	22.1	18.4	19.9	11.2	9.8	10.4	9.9	7.1	8.5
3	24.5	20.6	22.3	21.1	19.2	19.9	11.2	9.1	10.2	10.8	8.3	9.6
4	24.0	21.2	22.5	20.5	18.0	19.2	11.1	8.8	10	11.2	9.2	10.2
5	26.8	21.7	23.8	18.7	16.5	17.6	9.8	8.3	9.1	10.1	8.3	9.2
6	25.2	22.4	23.6	16.5	14.8	15.9	8.8	7.0	8.0	8.4	6.2	7.3
7	25.3	22.6	23.4	14.8	13.5	14.2	9.3	7.1	8.3	6.8	5.0	5.9
8	24.2	21.6	22.8	13.9	13.2	13.5	10.7	8.3	9.6	6.7	5.2	5.9
9	24.6	21.9	22.9	13.4	12.9	13.1	10.3	8.7	9.6	7.6	5.2	6.3
10	23.5	22.3	22.8	16.2	12.7	14.0	9.3	7.6	8.5	7.9	5.6	6.7
11	23.4	21.5	22.3	17.6	14.6	15.8	8.8	6.6	7.8	8.2	6.1	7.2
12	22.8	20.6	21.4	17.3	15.4	16.2	8.2	6.9	7.5	9.4	7.2	8.1
13	24.9	19.6	21.8	15.5	12.9	14.2	8.2	6.0	7.1	9.6	7.8	8.8
14	22.7	19.3	20.9	12.9	12.0	12.5	8.2	5.9	7.2	9.0	8.1	8.6
15	23.0	18.6	20.5	15.0	11.6	12.9	8.5	7.2	7.7	9.4	8.8	9.1
16	24.4	19.3	21.3	16.0	12.1	13.6	8.0	6.1	7.0	10.5	9.4	9.8
17	22.9	19.2	20.8	15.7	13.9	14.6	6.9	4.8	6.0	10.1	9.1	9.6
18	24.0	18.8	20.8	14.6	12.8	13.6	7.0	4.9	6.0	10.6	8.7	9.4
19	24.0	19.1	21.1	14.0	11.5	12.7	6.8	5.0	6.0	10.6	8.0	9.3
20	23.4	19.1	20.9	13.4	10.9	12.1	7.3	4.8	6.0	10.6	8.4	9.5
21	23.0	18.8	20.7	13.5	11.1	12.3	7.9	5.4	6.6	10.5	9.0	9.7
22	23.1	18.4	20.4	13.2	12.2	12.7	8.4	6.3	7.4	10.6	8.5	9.6
23	22.1	18.2	20.0	12.7	10.9	11.8	8.3	6.5	7.5	10.7	9.5	10.0
24	22.1	17.8	19.8	11.0	10.0	10.6	7.4	6.1	6.9	11.3	9.5	10.3
25	19.5	16.6	18.3	10.6	9.8	10.1	8.2	5.9	7.1	10.2	9.0	9.6
26	17.3	15.0	16.0	11.2	10.0	10.5	9.2	6.6	8.0	9.7	7.5	8.7
27	17.7	13.5	15.5	10.5	9.7	10.1	9.3	7.6	8.4	9.0	6.4	7.7
28	17.0	14.1	15.6	9.7	8.2	9.0	7.8	6.3	7.0	8.9	6.1	7.6
29	19.9	14.7	16.7	9.5	7.7	8.6	6.5	4.5	5.5	10.0	7.3	8.4
30	17.6	15.9	16.6	10.0	7.8	9.0	6.0	4.1	5.2	10.1	7.4	8.8
31	18.1	15.4	16.8	---	---	---	6.4	4.4	5.6	10.2	8.1	9.2
MONTH	26.8	13.5	20.6	22.1	7.7	13.6	11.2	4.1	7.6	11.3	5.0	8.6
		FEBRUARY			MARCH			APRIL			MAY	
1	10.0	8.9	9.4	12.4	10.1	11.2	21.1	18.7	19.7	21.5	19.0	20.2
2	10.1	7.4	8.8	12.1	10.1	11.1	21.1	18.2	19.6	22.5	18.4	20.2
3	8.7	7.4	8.1	11.7	10.9	11.3	19.5	18.1	18.5	23.4	18.8	20.7
4	7.9	7.0	7.4	13.0	11.1	11.9	18.1	11.5	13.0	25.3	19.5	21.6
5	8.8	6.4	7.6	14.2	10.9	12.5	---	---	---	23.9	20.4	22.3
6	9.8	7.2	8.4	14.9	11.3	13.1	---	---	---	25.5	22.2	23.3
7	10.2	7.0	8.6	15.3	12.4	13.8	---	---	---	27.9	23.3	25.0
8	10.4	7.6	9.0	15.2	12.3	13.8	---	---	---	29.2	23.9	25.8
9	9.5	7.7	8.7	16.0	12.5	14.3	---	---	---	27.1	24.4	25.3
10	8.5	7.8	8.1	16.9	13.7	15.4	---	---	---	26.0	23.8	24.5
11	10.8	7.8	9.1	16.0	13.1	14.3	---	---	---	27.2	23.0	24.5
12	9.6	7.1	8.3	13.1	11.8	12.3	---	---	---	25.8	23.0	24.3
13	7.1	5.4	6.4	15.2	11.3	13.2	---	---	---	27.3	22.6	24.4
14	7.5	4.3	5.9	14.3	13.5	14.0	20.1	16.1	17.6	26.5	21.5	23.3
15	8.9	5.2	7.0	16.9	13.6	15.1	22.8	17.6	19.4	23.9	21.9	22.9
16	10.3	6.4	8.4	18.6	14.6	16.7	23.4	18.9	20.7	25.8	22.0	23.3
17	11.8	7.7	9.7	20.0	15.8	17.9	21.9	20.5	21.0	27.6	22.2	24.5
18	12.5	9.0	10.8	21.2	16.2	18.5	21.5	19.8	20.4	28.8	23.3	25.6
19	12.4	10.4	11.4	21.6	17.2	19.3	24.0	19.2	21.0	29.3	24.6	26.0
20	12.5	10.4	11.5	22.9	18.8	20.6	22.6	20.0	21.2	28.2	24.8	25.9
21	12.4	10.9	11.7	20.6	17.1	18.6	23.6	19.5	21.2	30.1	25.0	26.5
22	13.8	11.0	12.3	18.2	16.2	17.0	23.8	19.2	21.2	28.3	25.0	26.5
23	14.4	12.2	13.3	20.4	16.1	18.1	23.7	19.7	21.2	29.5	24.6	26.3
24	13.9	11.7	13.0	21.9	17.8	20.0	23.3	18.8	20.5	27.5	24.2	25.7
25	14.2	10.4	12.1	21.6	19.0	20.5	25.3	18.5	21.1	26.9	24.5	25.2
26	14.4	10.6	12.4	22.9	19.9	21.1	23.2	19.7	21.2	30.8	23.9	26.3
27	14.6	11.6	13.1	22.9	19.8	21.3	22.4	20.2	21.3	26.6	23.8	24.8
28	15.4	12.3	13.8	22.2	18.8	20.5	23.4	20.0	21.5	28.3	22.8	24.8
29	13.8	11.4	12.6	21.8	18.1	20.1	22.1	20.7	21.4	26.7	23.0	24.7
30	---	---	---	21.6	17.9	19.8	23.7	19.7	21.1	28.5	22.6	24.7
31	---	---	---	21.6	17.8	19.8	---	---	---	28.7	22.7	24.9
MONTH	15.4	4.3	9.9	22.9	10.1	16.4	25.3	11.5	20.2	30.8	18.4	24.3

08406500 PECOS RIVER NEAR MALAGA, NM—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	30.6	22.7	25.4	32.6	25.4	28.3	31.1	27.6	28.9	25.6	24.5	25.0
2	29.7	23.5	26.0	33.0	26.7	29.3	32.7	27.6	29.5	27.5	23.7	25.2
3	25.5	23.7	24.2	31.1	27.0	28.5	33.2	28.0	29.9	28.4	24.5	25.7
4	29.4	23.0	25.0	31.6	26.7	28.5	33.1	28.5	30.1	29.2	24.8	26.3
5	30.5	23.3	26.1	33.6	26.4	28.8	31.9	28.0	29.4	31.5	25.5	27.5
6	26.6	23.6	24.9	32.7	26.5	28.8	32.6	27.7	29.8	27.2	25.1	26.1
7	28.9	23.8	25.1	31.9	26.6	28.3	31.4	27.2	29.1	26.2	24.1	25.3
8	28.6	24.3	25.7	31.3	27.1	28.6	30.4	28.1	29.4	27.1	23.5	24.9
9	31.8	25.4	27.4	31.1	27.5	28.8	30.2	28.3	29.2	27.6	23.0	24.6
10	29.9	25.7	27.5	29.6	28.0	28.7	32.0	28.1	29.7	26.4	22.8	24.2
11	30.1	25.2	27.1	29.1	27.6	28.2	31.7	27.0	28.5	26.9	23.0	24.6
12	28.4	24.2	26.0	29.4	26.9	27.6	30.2	25.6	28.0	28.7	23.4	25.5
13	31.8	24.1	27.3	31.4	26.6	28.0	28.6	24.8	26.2	29.2	24.0	25.8
14	31.5	23.8	27.5	32.8	26.7	28.8	27.3	25.8	26.3	29.7	24.2	26.0
15	32.1	25.4	27.5	30.0	27.2	28.5	25.9	24.9	25.4	28.0	24.2	25.9
16	32.1	25.6	27.3	31.1	27.2	28.5	25.9	24.1	24.9	30.1	24.6	26.2
17	30.8	25.3	26.7	30.7	27.1	28.6	29.1	24.4	25.8	27.1	25.0	25.9
18	31.3	25.7	27.1	32.7	27.4	29.3	28.6	25.3	26.4	26.4	24.8	25.4
19	29.5	25.3	26.5	32.4	27.2	29.7	29.6	25.2	27.2	26.0	24.6	25.1
20	28.6	25.5	26.5	32.7	27.9	29.6	31.3	25.4	27.1	27.4	23.9	25.3
21	31.3	25.1	27.5	28.6	27.0	27.8	32.2	26.1	27.7	26.7	24.0	24.9
22	27.0	24.5	25.4	29.0	26.4	27.7	31.9	26.0	27.8	25.3	23.0	24.2
23	25.4	24.2	24.7	29.3	27.0	27.8	31.0	25.6	27.7	24.1	21.3	22.4
24	28.7	24.2	25.4	28.6	26.3	27.1	30.3	25.7	27.4	25.7	22.0	23.0
25	29.9	24.4	26.0	26.7	24.0	25.2	30.7	26.3	27.7	23.5	22.3	23.0
26	28.8	24.9	26.5	24.1	23.0	23.4	29.0	25.8	27.3	22.8	19.5	20.5
27	27.9	25.6	26.6	24.0	22.6	23.2	30.8	25.6	27.6	20.9	19.5	20.2
28	27.9	25.7	26.6	27.9	23.7	25.4	28.5	25.2	26.3	20.8	19.9	20.3
29	29.0	25.8	26.7	28.6	25.7	26.9	29.4	25.0	26.5	22.2	19.8	20.9
30	30.6	24.9	27.2	30.8	26.5	28.1	29.1	25.2	26.5	21.3	18.0	19.0
31	---	---	---	31.1	27.0	28.5	27.2	25.2	25.8	---	---	---
MONTH	32.1	22.7	26.3	33.6	22.6	27.9	33.2	24.1	27.7	31.5	18.0	24.3
YEAR	33.6	4.1	18.9									

08407000 PECOS RIVER AT PIERCE CANYON CROSSING, NEAR MALAGA, NM

LOCATION.--Lat 32°11'19", long 103°58'43", in SW ¼ SW ¼ NW ¼ 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 fair except for those estimated, which are poor. Flow regulated by many reservoirs and diversion dams. Diversions and ground-water withdrawals upstream from station for irrigation of about 202,000 acres, 1959 determination.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	19	45	27	25	30	29	34	25	39	50	96
2	12	20	41	28	25	30	27	31	23	40	47	97
3	13	22	40	28	26	31	49	30	23	36	44	72
4	15	22	39	29	27	32	16,800	31	25	33	43	57
5	16	21	37	28	26	36	3,460	30	26	31	39	46
6	16	e21	36	27	25	41	1,120	30	26	31	37	38
7	17	e21	36	25	26	42	513	31	26	31	35	43
8	18	20	36	24	26	35	204	31	25	30	36	44
9	18	20	35	23	27	30	136	31	24	28	36	44
10	19	21	35	23	26	29	114	30	27	34	35	45
11	19	22	34	23	26	29	99	31	25	34	35	49
12	24	22	33	23	28	32	91	31	24	34	34	41
13	24	22	33	23	28	34	83	34	24	39	67	34
14	22	23	32	23	29	37	72	31	22	31	181	32
15	21	23	32	25	33	45	65	28	19	27	115	e36
16	20	23	32	26	34	40	60	27	17	24	86	e42
17	20	23	32	28	31	37	56	27	19	23	65	55
18	19	23	33	28	29	37	54	26	25	29	58	68
19	19	21	31	28	29	36	48	25	32	28	53	49
20	19	20	29	28	28	36	45	24	35	27	49	34
21	19	19	28	27	28	36	42	28	33	24	46	27
22	19	231	29	26	30	35	39	29	30	21	43	121
23	19	e350	30	26	29	34	36	38	29	24	42	138
24	19	e460	30	27	30	35	31	34	38	28	38	78
25	18	e465	32	26	31	34	27	29	47	36	41	88
26	19	e470	32	25	36	33	28	28	36	271	42	182
27	19	458	30	25	42	32	29	28	95	242	37	205
28	19	178	29	27	36	32	31	30	115	135	36	178
29	19	79	29	26	32	32	33	29	72	100	36	144
30	20	54	29	24	---	32	34	29	44	76	55	396
31	20	---	28	24	---	30	---	26	---	56	75	---
TOTAL	574	3,193	1,027	800	848	1,064	23,455	921	1,031	1,642	1,636	2,579
MEAN	18.5	106	33.1	25.8	29.2	34.3	782	29.7	34.4	53.0	52.8	86.0
MAX	24	470	45	29	42	45	16,800	38	115	271	181	396
MIN	12	19	28	23	25	29	27	24	17	21	34	27
AC-FT	1,140	6,330	2,040	1,590	1,680	2,110	46,520	1,830	2,040	3,260	3,250	5,120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2004, BY WATER YEAR (WY)

MEAN	168	107	91.0	76.1	69.2	51.8	52.4	200	156	100	147	240
MAX	2,718	596	519	359	358	299	782	7,108	3,040	1,184	4,182	7,129
(WY)	(1955)	(1998)	(1992)	(1987)	(1987)	(1987)	(2004)	(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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1938 - 2004	
ANNUAL TOTAL	12,445.3		38,770			
ANNUAL MEAN	34.1		106		122	
HIGHEST ANNUAL MEAN					1,694	1941
LOWEST ANNUAL MEAN					18.7	1977
HIGHEST DAILY MEAN	470	Nov 26	16,800	Apr 4	65,000	Aug 23, 1966
LOWEST DAILY MEAN	7.6	Jul 13	12	Oct 2	2.1	Jun 22, 1978
ANNUAL SEVEN-DAY MINIMUM	7.9	Jul 12	15	Oct 1	2.6	Jul 21, 1966
MAXIMUM PEAK FLOW			39,100	Apr 4	65,000	Aug 23, 1966
MAXIMUM PEAK STAGE			23.42	Apr 4	a31.60	Aug 23, 1966
INSTANTANEOUS LOW FLOW			12	Oct 2	0.54	May 30, 1965
ANNUAL RUNOFF (AC-FT)	24,690		76,900		88,510	
10 PERCENT EXCEEDS	59		80		134	
50 PERCENT EXCEEDS	20		31		46	
90 PERCENT EXCEEDS	9.8		21		13	

a From floodmarks.
e Estimated

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.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1938 to September 1941, October 1951 to June 1986, March 2003 to current year.
WATER TEMPERATURE: October 1952 to June 1986, March 2003 to September 2003.

INSTRUMENTATION.--Specific conductance and thermistor since March 2003. Hourly data logged.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 66,000 microsiemens, Aug. 1, 2, 1966: minimum daily, 402 microsiemens, June 25, 1986.
WATER TEMPERATURE: Maximum daily, 35.0 °C, July 6, 1968; minimum daily, 1.0 °C, Dec. 25, 1983.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 21,700 microsiemens, Oct. 8; minimum daily, 1,160 microsiemens, Sept. 30.
WATER TEMPERATURE: Maximum daily, 33.7 °C, Aug. 3; minimum daily, 4.6 °C, Dec. 31.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Residue on evap. at 180degC wat flt mg/L (70300)
OCT 31...	1030	20	20,000	18.2	18.0	13,300
NOV 28...	1050	180	6,150	10.0	8.9	4,000
DEC 22...	1031	30	12,900	5.0	7.6	7,100
JAN 30...	1350	24	12,800	12.0	10.1	8,450
FEB 26...	1510	36	13,100	20.0	13.5	8,880
MAR 29...	1130	33	10,700	25.0	20.8	7,150
APR 27...	1115	30	10,300	27.0	21.6	6,440
JUN 25...	1110	45	11,000	28.0	25.4	7,270
JUL 23...	1032	24	11,200	33.0	30.0	7,780

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20,500	19,900	20,100	18,500	18,500	18,500	---	---	---	11,000	10,900	11,000
2	20,300	19,800	20,000	18,500	18,400	18,500	---	---	---	10,900	10,800	10,900
3	20,200	19,800	20,000	18,500	18,300	18,400	---	---	---	11,000	10,900	11,000
4	20,200	19,800	19,900	18,300	18,100	18,200	10,300	9,940	10,100	11,100	11,000	11,100
5	20,500	20,100	20,300	18,100	18,100	18,100	10,500	10,300	10,400	11,100	10,900	11,000
6	21,100	20,500	20,800	18,100	17,800	17,900	10,700	10,500	10,600	10,900	10,700	10,800
7	21,600	21,100	21,300	17,800	17,100	17,400	11,200	10,700	11,000	10,700	10,600	10,600
8	21,700	21,400	21,600	17,100	16,600	16,900	11,300	11,200	11,200	10,900	10,600	10,700
9	21,500	19,900	20,800	16,600	16,500	16,600	11,400	11,300	11,400	11,200	10,900	11,000
10	20,000	19,600	19,800	16,800	16,600	16,700	11,400	11,400	11,400	11,700	11,200	11,500
11	20,100	18,300	19,800	16,800	16,700	16,800	11,400	11,100	11,300	11,900	11,700	11,800
12	19,400	18,300	18,800	16,700	16,400	16,600	11,100	10,900	10,900	12,100	11,900	12,000
13	18,600	17,800	18,200	16,500	16,000	16,300	11,100	10,900	11,000	12,400	12,100	12,300
14	18,300	17,600	18,000	16,000	15,700	15,900	11,100	11,100	11,100	12,400	12,300	12,400
15	17,600	17,000	17,400	15,700	15,200	15,400	11,100	11,000	11,000	12,600	12,400	12,500
16	17,200	16,900	17,100	15,200	14,800	15,000	11,200	11,000	11,100	12,600	12,500	12,600
17	17,400	16,900	17,000	14,800	14,600	14,700	11,400	11,200	11,300	12,900	12,600	12,800
18	17,000	16,900	17,000	14,600	14,400	14,500	11,200	10,800	10,900	13,000	12,900	13,000
19	17,200	17,000	17,100	14,400	14,300	14,400	10,800	10,600	10,700	12,900	12,700	12,900
20	17,400	17,200	17,300	14,400	14,300	14,400	10,600	10,400	10,400	12,700	12,300	12,500
21	17,500	16,800	17,300	---	---	---	10,600	10,400	10,500	12,500	12,300	12,300
22	17,700	17,000	17,500	---	---	---	10,900	10,600	10,700	12,500	12,400	12,500
23	18,000	17,700	17,900	---	---	---	11,100	10,900	11,000	12,400	12,200	12,300
24	18,300	18,000	18,100	---	---	---	11,100	11,000	11,100	12,300	12,200	12,200
25	18,500	18,300	18,400	---	---	---	11,000	10,600	10,800	12,600	12,300	12,500
26	18,500	18,400	18,500	---	---	---	10,600	10,500	10,600	12,800	12,600	12,700
27	18,700	18,500	18,600	---	---	---	10,500	10,400	10,400	13,300	12,700	13,000
28	18,800	18,700	18,700	---	---	---	10,800	10,400	10,600	13,300	12,900	13,200
29	18,900	18,700	18,800	---	---	---	11,100	10,800	10,900	12,900	12,400	12,700
30	18,900	18,800	18,800	---	---	---	11,200	11,000	11,100	12,700	12,400	12,500
31	18,800	18,500	18,700	---	---	---	11,000	11,000	11,000	13,000	12,700	12,800
MONTH	21,700	16,800	18,800	18,500	14,300	16,600	11,400	9,940	10,900	13,300	10,600	12,000

08407000 PECOS RIVER AT PIERCE CANYON CROSSING, NEAR MALAGA, NM—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13,600	13,000	13,300	11,800	10,900	11,300	10,500	10,300	10,400	10,800	10,600	10,700
2	14,100	13,600	13,900	12,000	11,800	12,000	10,700	10,500	10,500	10,600	10,300	10,500
3	14,200	14,000	14,100	12,000	11,800	11,900	11,700	10,700	10,800	10,400	10,200	10,300
4	14,000	13,500	13,700	11,900	11,700	11,800	12,000	3,750	4,790	10,600	10,300	10,500
5	13,500	13,300	13,400	12,300	11,900	12,100	3,790	3,750	3,770	10,700	10,600	10,600
6	13,600	13,400	13,500	12,600	11,200	12,100	3,810	3,790	3,800	10,700	10,600	10,600
7	13,700	13,500	13,600	11,200	10,300	10,700	3,810	1,790	2,670	10,800	10,700	10,800
8	13,700	13,500	13,600	10,300	9,830	10,000	3,080	2,050	2,520	10,900	10,700	10,800
9	13,500	13,200	13,400	10,000	9,740	9,850	4,140	3,080	3,640	10,900	10,800	10,900
10	13,300	13,200	13,300	10,800	10,000	10,500	5,090	4,140	4,640	11,000	10,800	10,900
11	13,200	12,900	13,000	11,700	10,800	11,200	5,730	5,090	5,400	11,000	10,700	10,900
12	12,900	12,900	12,900	11,900	11,700	11,800	6,370	5,730	6,060	10,900	10,700	10,700
13	13,100	12,900	13,000	11,900	11,700	11,700	6,710	6,370	6,490	11,000	10,700	10,900
14	13,300	13,100	13,200	11,900	11,500	11,800	7,040	6,710	6,880	11,000	10,600	10,900
15	13,200	12,800	13,000	11,500	10,300	11,000	7,290	7,040	7,200	10,600	10,100	10,400
16	12,800	12,200	12,600	10,300	9,350	9,730	7,610	7,290	7,390	10,400	10,200	10,300
17	12,300	11,800	12,000	9,590	9,280	9,460	7,790	7,590	7,690	10,700	10,300	10,500
18	12,000	11,700	11,800	9,890	9,590	9,780	8,070	7,790	7,950	10,900	10,600	10,800
19	12,200	11,800	12,000	9,890	9,830	9,860	8,160	7,950	8,070	11,100	10,700	10,900
20	12,500	12,200	12,400	9,900	9,590	9,820	8,410	8,150	8,210	11,600	11,100	11,300
21	13,100	12,500	12,800	10,300	9,860	10,000	8,900	8,410	8,640	12,100	11,600	11,800
22	13,200	12,700	13,000	10,300	10,200	10,300	8,970	8,820	8,910	12,300	12,100	12,200
23	12,900	12,500	12,700	10,400	10,100	10,300	9,150	8,900	8,990	12,300	11,300	11,800
24	12,500	12,300	12,400	10,200	10,100	10,200	9,580	9,150	9,410	11,400	10,700	11,100
25	12,900	12,400	12,700	10,200	9,900	10,100	9,860	9,540	9,690	10,900	10,400	10,700
26	13,400	12,900	13,100	10,100	10,000	10,000	10,400	9,860	10,100	11,000	10,600	10,800
27	13,000	11,500	12,300	10,100	9,980	10,100	10,600	10,400	10,500	11,000	10,800	10,900
28	11,500	10,500	11,000	10,300	9,990	10,100	10,600	10,400	10,500	11,100	10,800	10,900
29	10,900	10,400	10,500	10,500	10,300	10,400	10,800	10,400	10,600	11,200	11,000	11,100
30	---	---	---	10,400	10,100	10,200	10,800	10,600	10,700	11,000	10,800	10,900
31	---	---	---	10,300	10,100	10,200	---	---	---	11,200	10,900	11,000
MONTH	14,200	10,400	12,800	12,600	9,280	10,700	12,000	1,790	7,560	12,300	10,100	10,900
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11,100	10,800	11,000	9,100	8,360	8,740	8,100	7,560	7,860	7,720	6,890	7,300
2	10,900	10,800	10,900	9,390	8,970	9,170	8,300	8,100	8,220	6,890	6,290	6,540
3	11,100	10,800	11,000	9,330	9,270	9,310	8,500	8,290	8,380	6,460	6,280	6,340
4	11,300	11,100	11,200	9,550	9,330	9,440	8,520	8,440	8,470	6,740	6,440	6,620
5	11,500	11,200	11,400	9,940	9,550	9,730	8,620	8,520	8,560	7,050	6,730	6,890
6	11,300	11,100	11,200	10,000	9,760	9,900	8,730	8,590	8,640	7,580	7,040	7,300
7	11,100	11,000	11,100	10,100	9,950	10,000	8,780	8,610	8,690	8,030	7,580	7,850
8	11,100	11,000	11,100	10,300	10,100	10,200	8,900	8,780	8,840	8,040	7,890	7,980
9	11,100	11,000	11,000	10,600	10,300	10,500	8,940	8,870	8,910	7,920	7,860	7,890
10	11,100	10,900	11,000	10,800	10,600	10,700	9,010	8,860	8,960	8,030	7,920	7,980
11	11,100	10,700	10,900	11,000	10,800	10,900	8,970	8,900	8,950	8,050	7,970	8,020
12	11,200	10,800	11,000	10,900	10,500	10,800	9,020	8,590	8,970	8,020	7,940	7,980
13	11,400	11,000	11,200	10,800	10,600	10,600	8,710	8,200	8,460	8,060	7,940	7,970
14	11,300	11,200	11,200	10,700	10,400	10,600	8,660	4,970	6,800	8,640	8,060	8,280
15	11,500	11,300	11,400	10,500	10,300	10,400	4,970	4,710	4,780	9,020	8,640	8,830
16	11,800	11,500	11,700	10,900	10,400	10,600	5,280	4,840	5,060	9,250	9,000	9,150
17	12,500	11,800	12,100	11,400	10,900	11,200	5,740	5,280	5,530	9,240	8,810	9,060
18	13,500	12,400	13,000	12,000	11,400	11,700	6,260	5,740	5,960	8,810	8,220	8,370
19	13,400	13,200	13,400	12,200	12,000	12,100	6,500	6,250	6,400	8,220	7,940	8,050
20	13,200	11,400	12,200	12,100	11,600	11,800	6,760	6,500	6,610	7,940	7,830	7,890
21	11,500	10,800	11,200	11,600	11,500	11,500	7,090	6,760	6,920	8,030	7,910	7,960
22	11,100	10,800	11,000	11,600	11,500	11,600	7,390	7,090	7,230	9,670	7,190	8,400
23	11,000	10,900	10,900	12,100	11,600	11,800	7,680	7,280	7,500	7,190	3,550	4,850
24	11,000	10,800	10,900	12,400	12,100	12,300	7,790	7,630	7,700	3,860	3,520	3,650
25	11,300	10,700	11,000	12,400	11,900	12,200	8,050	7,760	7,910	4,620	3,760	4,120
26	11,300	11,100	11,300	13,100	4,240	9,130	8,200	8,040	8,120	5,410	4,620	4,980
27	11,300	10,900	11,200	5,500	5,110	5,370	8,310	8,080	8,190	4,800	3,460	3,970
28	11,000	8,580	9,970	5,800	5,360	5,570	8,400	8,220	8,290	3,860	3,570	3,730
29	8,810	7,860	8,180	6,320	5,800	6,060	8,530	8,400	8,470	4,320	3,560	3,840
30	8,390	7,960	8,120	6,920	6,320	6,660	8,600	8,510	8,550	4,380	1,160	3,230
31	---	---	---	7,560	6,920	7,210	8,560	7,720	8,260	---	---	---
MONTH	13,500	7,860	11,100	13,100	4,240	9,930	9,020	4,710	7,750	9,670	1,160	6,830
YEAR	21,700	1,160	11,200									

08407000 PECOS RIVER AT PIERCE CANYON CROSSING, NEAR MALAGA, NM—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.8	20.9	22.3	18.8	16.7	17.8	10.3	8.7	9.6	8.1	5.8	6.9
2	24.4	20.6	21.9	20.6	18.3	19.4	11.1	10.0	10.5	9.6	6.9	8.3
3	24.9	20.2	22.3	20.7	19.0	19.8	11.5	9.5	10.4	10.7	8.3	9.5
4	23.3	21.4	22.3	20.6	18.4	19.4	11.7	9.7	10.4	11.4	9.5	10.4
5	26.0	21.3	23.0	18.8	17.5	18.1	9.9	8.5	9.3	10.4	8.8	9.6
6	24.5	22.2	23.2	17.5	15.5	16.7	8.9	7.5	8.3	8.8	6.8	7.9
7	23.9	22.4	22.9	15.5	14.2	14.8	9.6	7.5	8.5	7.0	5.7	6.4
8	23.4	21.8	22.4	14.2	13.6	13.9	10.5	8.1	9.3	6.9	5.5	6.2
9	24.3	21.8	22.7	13.6	13.2	13.4	10.1	8.7	9.4	7.2	5.2	6.2
10	23.7	22.2	22.9	14.7	12.9	13.8	9.2	7.8	8.5	7.9	5.8	6.8
11	24.1	21.7	22.5	16.3	14.2	15.1	8.7	7.1	8.0	8.0	6.2	7.2
12	22.9	20.9	21.6	16.5	15.0	15.6	8.3	7.2	7.6	8.8	7.3	8.0
13	23.3	19.9	21.6	15.2	13.4	14.2	8.3	6.1	7.2	9.4	7.7	8.5
14	22.0	19.8	20.9	13.4	12.6	13.0	8.5	6.2	7.4	9.0	8.0	8.6
15	21.9	19.1	20.4	14.4	12.1	13.1	8.6	6.8	7.5	9.3	8.8	9.1
16	24.0	19.6	21.5	14.2	12.2	13.2	7.8	5.9	6.8	10.2	9.2	9.6
17	22.5	19.5	20.8	15.2	13.4	14.1	7.2	5.5	6.2	9.8	9.0	9.4
18	22.4	19.1	20.7	14.5	12.9	13.6	6.8	5.0	5.8	10.5	8.6	9.3
19	22.9	19.5	21.1	13.6	11.8	12.7	6.9	5.4	6.1	10.2	8.3	9.2
20	22.3	19.7	21.0	13.7	11.3	12.4	7.2	5.2	6.2	10.5	8.6	9.5
21	22.6	19.6	21.0	13.5	11.4	12.5	7.8	5.8	6.8	10.5	9.2	9.7
22	22.3	19.4	20.7	13.4	11.9	12.7	8.4	6.5	7.4	10.8	8.8	9.8
23	21.5	19.1	20.3	12.8	11.3	11.8	8.5	6.6	7.5	10.6	9.6	10.0
24	21.6	18.6	20.0	11.3	9.9	10.5	7.5	6.6	7.1	11.0	9.6	10.2
25	19.9	17.3	18.9	11.0	9.7	10.2	8.0	6.1	7.1	10.5	9.2	9.7
26	17.7	15.9	16.7	11.4	10.1	10.7	9.0	6.9	7.9	10.0	8.3	9.1
27	17.6	14.8	16.1	10.9	9.6	10.1	9.6	7.8	8.5	9.1	7.0	8.0
28	17.2	15.0	16.2	10.0	8.6	9.2	8.0	6.5	7.3	8.8	6.8	7.8
29	17.9	15.2	16.6	9.8	8.4	9.0	6.9	5.2	6.0	10.4	7.4	8.6
30	17.3	15.9	16.5	10.3	7.5	8.9	6.0	4.7	5.4	10.6	7.5	8.8
31	17.5	15.6	16.6	---	---	---	6.5	4.6	5.6	10.5	8.2	9.4
MONTH	26.0	14.8	20.6	20.7	7.5	13.7	11.7	4.6	7.7	11.4	5.2	8.6
		FEBRUARY			MARCH			APRIL			MAY	
1	10.5	9.0	9.6	12.6	10.5	11.5	21.1	18.9	19.8	21.5	19.3	20.4
2	9.9	7.9	8.8	12.4	10.6	11.5	21.1	18.3	19.6	20.8	18.5	19.8
3	8.8	7.8	8.2	11.6	10.9	11.2	19.4	17.8	18.4	21.6	19.1	20.4
4	7.8	7.1	7.4	13.2	10.9	11.9	17.8	14.2	15.3	22.9	19.8	21.1
5	8.7	6.5	7.6	14.1	11.1	12.4	14.2	13.8	14.0	23.8	21.0	22.3
6	9.8	7.1	8.4	15.7	11.5	13.3	14.0	13.6	13.7	24.5	22.0	23.1
7	9.9	7.1	8.3	15.4	12.4	13.8	16.8	13.9	14.9	28.3	23.3	25.1
8	10.2	7.6	8.7	14.6	13.0	13.9	17.8	15.5	16.7	26.8	24.1	25.3
9	9.6	7.6	8.5	16.0	13.2	14.6	19.3	17.6	18.5	26.0	24.1	25.1
10	8.3	7.6	8.0	16.2	13.8	15.1	18.2	16.4	17.7	25.7	23.8	24.6
11	9.8	7.6	8.7	15.9	13.4	14.6	16.4	14.0	14.9	27.6	22.9	24.5
12	9.3	6.7	8.1	13.4	12.2	12.7	16.5	13.0	14.4	25.8	23.2	24.5
13	6.7	5.6	6.3	15.0	11.7	13.3	17.3	14.1	15.6	27.1	23.3	24.8
14	7.7	4.7	6.0	14.2	13.4	13.7	19.1	15.9	17.4	24.9	22.1	23.3
15	7.6	5.0	6.3	17.6	13.8	15.2	21.0	17.5	19.3	24.2	22.6	23.3
16	10.6	6.4	8.3	18.2	14.8	16.5	22.7	18.8	20.5	24.4	22.1	23.0
17	10.9	8.0	9.4	20.7	16.8	18.3	21.9	20.9	21.5	27.6	22.4	24.5
18	11.8	9.3	10.5	20.8	17.3	19.0	21.4	20.4	20.8	27.1	23.2	24.8
19	12.5	10.7	11.5	21.0	18.1	19.5	23.1	19.8	21.3	26.9	24.2	25.2
20	12.6	10.4	11.6	23.7	19.8	21.0	22.4	20.4	21.4	26.5	24.4	25.4
21	12.8	11.3	12.0	20.5	17.8	19.1	23.4	20.2	21.6	27.1	24.7	25.8
22	13.3	11.4	12.4	18.6	17.2	17.8	23.4	19.7	21.5	28.0	25.1	26.5
23	14.0	12.5	13.3	18.9	16.3	17.8	23.0	20.4	21.5	28.8	25.0	26.8
24	13.6	11.7	12.9	20.8	17.7	19.4	22.5	19.4	20.8	27.0	24.3	25.8
25	14.2	10.5	12.0	21.7	19.2	20.4	22.9	19.3	20.8	26.8	24.8	25.5
26	13.0	11.0	12.2	22.1	20.1	21.0	22.6	19.8	21.2	30.6	24.0	26.9
27	14.0	11.6	12.9	23.0	19.9	21.3	22.0	20.4	21.3	26.4	23.9	24.9
28	14.4	12.7	13.6	22.5	19.4	20.8	23.4	20.0	21.4	25.9	22.6	24.0
29	13.5	11.5	12.8	21.3	18.4	20.0	22.3	20.4	21.4	26.4	23.9	25.1
30	---	---	---	21.3	18.6	20.0	23.4	20.1	21.5	27.1	23.3	24.8
31	---	---	---	21.2	18.3	19.8	---	---	---	27.9	22.8	24.4
MONTH	14.4	4.7	9.8	23.7	10.5	16.5	23.4	13.0	19.0	30.6	18.5	24.2

08407000 PECOS RIVER AT PIERCE CANYON CROSSING, NEAR MALAGA, NM—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	29.5	23.4	25.6	32.4	25.9	28.3	29.9	28.0	28.7	25.8	24.3	24.9
2	27.3	24.4	25.5	33.2	27.0	29.0	30.5	28.1	29.0	25.2	23.5	24.3
3	24.7	23.7	24.1	29.0	27.2	27.9	33.7	28.6	29.9	26.0	23.8	24.9
4	26.3	23.0	24.2	32.3	26.9	28.3	30.4	28.6	29.2	27.1	24.6	25.7
5	29.5	23.6	26.2	32.9	26.2	28.8	29.9	28.3	28.8	29.4	25.9	27.2
6	26.1	23.7	24.8	31.2	26.6	28.3	32.4	27.9	29.5	28.0	25.2	26.2
7	25.9	23.8	24.7	29.4	26.4	27.5	29.4	27.1	28.1	25.9	24.8	25.2
8	25.9	23.9	24.8	30.0	26.9	28.0	29.7	28.4	29.0	26.4	23.9	24.7
9	29.6	24.9	26.7	29.0	27.4	28.1	30.0	28.8	29.2	25.3	23.8	24.4
10	30.9	25.9	27.7	29.8	27.8	28.6	31.2	28.4	29.3	25.1	23.6	24.4
11	29.6	25.3	27.1	29.0	27.4	28.1	29.2	27.5	28.4	24.8	23.6	24.2
12	26.8	24.8	25.8	28.9	26.6	27.5	28.8	26.2	27.6	25.7	24.6	25.1
13	31.5	24.6	27.5	29.6	26.6	27.4	27.2	25.6	26.0	26.1	24.7	25.1
14	30.0	25.0	26.8	29.6	27.0	27.8	27.2	26.1	26.6	28.2	24.4	25.5
15	28.0	25.0	26.3	29.0	27.0	27.9	26.1	24.7	25.6	28.1	24.2	25.8
16	28.2	25.6	26.5	28.6	27.0	27.8	25.7	23.8	24.7	28.4	25.0	26.1
17	27.2	25.2	26.1	29.5	27.1	28.2	27.0	24.0	25.2	26.7	25.3	25.9
18	27.6	25.6	26.5	29.5	27.2	28.3	26.3	25.3	25.8	26.3	24.5	25.4
19	27.4	25.6	26.4	31.4	27.6	29.3	29.8	25.4	27.3	25.5	24.2	24.7
20	26.9	25.8	26.4	31.0	28.3	29.2	29.6	25.9	26.9	26.9	24.0	25.4
21	31.2	25.3	27.7	28.6	27.3	27.8	30.3	26.4	27.3	25.7	24.0	24.6
22	27.4	24.6	25.3	28.2	26.4	27.2	31.6	26.1	27.9	25.3	23.2	24.2
23	25.1	24.0	24.5	30.9	26.6	27.9	30.7	25.7	27.7	25.2	23.3	24.3
24	26.4	23.7	24.6	28.6	26.5	27.5	29.7	25.8	27.3	25.5	23.0	24.2
25	28.0	24.2	25.5	27.1	24.0	25.1	30.8	25.9	28.0	24.8	23.0	23.6
26	27.2	25.1	25.9	24.0	22.6	23.3	29.1	26.0	27.5	23.2	20.5	21.5
27	27.9	26.1	27.0	23.8	22.7	23.2	31.2	26.0	28.0	20.6	19.9	20.3
28	28.5	26.4	27.3	27.6	23.8	25.4	27.1	25.3	26.1	20.7	19.9	20.3
29	29.0	25.5	26.9	29.0	25.0	26.6	26.6	24.8	25.6	21.6	19.7	20.5
30	30.1	25.2	27.1	28.5	26.0	27.3	29.3	25.5	26.6	21.0	18.9	20.4
31	---	---	---	29.8	27.3	28.2	26.9	24.7	25.6	---	---	---
MONTH	31.5	23.0	26.1	33.2	22.6	27.5	33.7	23.8	27.5	29.4	18.9	24.3
YEAR	33.7	4.6	18.8									

08407500 PECOS RIVER AT RED BLUFF, NM

LOCATION.--Lat 32°04'30", long 104°02'21", in SW ¼ NW ¼ NE ¼ sec.1, T.26 S., R.28 E., Eddy County, Hydrologic Unit 13060011, on right bank at Red Bluff, 0.2 mi downstream from Red Bluff Draw, 1.6 mi northwest of the El Paso Natural Gas (Pecos River) compressor station, 5.2 mi north of the New Mexico-Texas State line, 5.5 mi upstream from Delaware River, and at mile 411.2.

DRAINAGE AREA.--19,540 mi^2, approximately (contributing area).

PERIOD OF RECORD.--October 1937 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 2,850.05 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for those estimated, which are fair. 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 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 Oct. 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	13	49	26	20	26	32	28	39	49	58	94
2	11	13	41	26	21	25	49	29	37	48	54	125
3	10	14	38	27	22	25	34	27	36	47	51	87
4	11	15	35	27	22	27	e4,990	28	38	46	50	73
5	12	15	33	27	22	28	e15,900	29	41	43	48	68
6	13	15	31	27	21	32	e1,290	28	41	42	46	53
7	13	15	31	26	21	39	e892	29	42	41	44	48
8	48	15	31	24	21	33	341	30	42	42	43	53
9	15	15	31	23	22	28	164	30	41	40	44	53
10	14	16	30	22	22	25	119	31	41	39	43	53
11	14	16	31	22	21	25	94	32	45	45	42	54
12	18	17	29	22	23	28	78	33	42	44	41	56
13	18	17	28	22	23	31	68	35	41	46	88	48
14	18	20	28	22	24	32	62	37	41	47	146	42
15	16	19	28	23	24	39	56	88	38	41	172	39
16	15	19	27	23	27	45	52	41	35	38	96	39
17	14	18	28	24	26	37	49	33	40	36	74	49
18	14	18	29	24	24	35	47	33	34	34	64	62
19	13	17	30	25	23	34	44	33	39	39	60	67
20	13	18	27	24	23	33	39	30	46	39	57	55
21	13	18	26	24	23	34	37	31	49	38	54	163
22	13	38	25	23	24	33	35	35	46	37	52	116
23	13	360	26	22	25	32	33	40	44	34	51	211
24	13	456	27	22	27	33	28	47	60	35	50	109
25	12	467	29	23	25	34	25	42	103	384	48	709
26	13	477	30	22	27	33	22	39	48	228	51	972
27	13	449	28	21	35	32	24	38	55	527	51	383
28	13	221	26	22	34	33	25	40	133	224	47	545
29	13	81	26	23	30	32	27	43	87	117	46	349
30	13	57	26	21	---	33	28	42	59	85	49	846
31	13	---	27	20	---	32	---	42	---	66	67	---
TOTAL	453	2,949	931	729	702	988	24,684	1,123	1,483	2,621	1,887	5,621
MEAN	14.6	98.3	30.0	23.5	24.2	31.9	823	36.2	49.4	84.5	60.9	187
MAX	48	477	49	27	35	45	15,900	88	133	527	172	972
MIN	10	13	25	20	20	25	22	27	34	34	41	39
AC-FT	899	5,850	1,850	1,450	1,390	1,960	48,960	2,230	2,940	5,200	3,740	11,150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2004, BY WATER YEAR (WY)

MEAN	258	154	122	108	93.5	68.5	68.8	201	170	113	146	262
MAX	5,255	1,382	813	703	534	295	823	6,954	3,181	1,273	4,210	6,521
(WY)	(1942)	(1942)	(1942)	(1942)	(1942)	(1942)	(2004)	(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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1938 - 2004	
ANNUAL TOTAL	11,317.3		44,171			
ANNUAL MEAN	31.0		121		147	
HIGHEST ANNUAL MEAN					1,655	1941
LOWEST ANNUAL MEAN					19.2	1977
HIGHEST DAILY MEAN	477	Nov 26	15,900	Apr 5	50,700	Aug 24, 1966
LOWEST DAILY MEAN	4.6	Jul 16	10	Oct 3	0.22	Aug 1, 1966
ANNUAL SEVEN-DAY MINIMUM	4.9	Jul 15	12	Oct 1	0.33	Jul 26, 1966
MAXIMUM PEAK FLOW			40,100	Apr 5	a111,000	Aug 23, 1966
MAXIMUM PEAK STAGE			25.16	Apr 5	33.32	Aug 23, 1966
INSTANTANEOUS LOW FLOW			8.9	Oct 1	0.19	Aug 1, 1966
ANNUAL RUNOFF (AC-FT)	22,450		87,610		106,700	
10 PERCENT EXCEEDS	54		90		202	
50 PERCENT EXCEEDS	15		33		55	
90 PERCENT EXCEEDS	7.0		16		14	

a From rating curve extended above 32,000 ft^3/s, on basis of slope-area measurement of peak flow.
e Estimated

08408500 DELAWARE RIVER NEAR RED BLUFF, NM

LOCATION.--Lat 32°01'23", long 104°03'15", in NE ¼ SW ¼ SE ¼ 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 with satellite telemetry and rain gage. Elevation of gage is 2,900.66 ft above National Geodetic Vertical Datum of 1929 (U.S. Boundary Commission post). Prior to May 1914, at site 3.0 mi upstream at different datum. May 1914 to June 1915, at site 2.5 mi downstream at different datum.

REMARKS.--Records fair, except for those estimated, which are poor. One small upstream diversion. Several observations of water temperature were made during the year. No flow for many days most years.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.00	0.00	e0.50	e0.67	0.70	0.82	0.24	0.91	0.12	10	3.1	98
2	e0.00	0.00	e0.60	e0.67	0.66	0.85	3.5	0.89	0.11	3.3	2.2	22
3	e0.00	0.00	e0.60	e0.67	0.68	0.87	1.8	0.91	0.11	2.0	2.0	15
4	e0.00	0.00	e0.60	e0.67	0.70	0.96	671	0.93	0.11	1.4	2.8	15
5	e0.00	0.00	0.63	e0.67	0.70	0.90	542	0.92	0.11	1.1	2.7	18
6	e0.00	0.00	0.62	e0.67	0.70	0.86	72	0.90	0.10	0.89	2.4	12
7	e0.00	0.00	e0.62	e0.67	0.70	0.82	24	0.88	0.10	0.72	2.5	10
8	e50	0.00	e0.62	e0.67	0.70	0.82	15	0.94	0.10	3.0	2.6	10
9	e100	0.00	e0.62	e0.67	0.70	0.83	14	0.92	0.10	1.7	2.7	9.7
10	e25	e0.10	e0.62	e0.67	0.70	0.84	10	0.94	0.10	0.83	2.7	9.4
11	e10	e0.20	e0.62	e0.66	0.72	0.82	8.7	0.96	0.10	88	2.8	9.2
12	e0.00	e0.50	e0.61	e0.68	0.77	0.90	4.8	0.89	0.10	74	10	8.8
13	e0.00	e0.70	e0.61	0.74	0.78	0.98	2.0	0.82	0.10	4.9	210	8.6
14	e0.00	e0.60	e0.61	0.76	0.79	0.84	1.7	0.80	0.10	2.6	246	8.3
15	e0.00	e0.55	e0.61	0.82	0.82	0.76	1.5	0.90	0.10	1.8	13	8.0
16	e0.00	e0.60	e0.61	0.89	0.80	0.65	1.4	0.50	5.6	1.4	193	7.7
17	e0.00	e0.70	e0.62	0.82	0.78	0.57	1.3	3.3	6.8	1.2	74	7.4
18	e0.00	e0.50	e0.62	0.78	0.78	0.52	1.2	1.3	2.6	1.0	45	7.2
19	e0.00	e0.45	e0.60	0.74	0.77	0.49	1.2	0.60	0.30	0.96	73	7.8
20	e0.00	0.47	e0.60	0.74	0.74	0.43	1.1	0.59	0.18	0.95	12	5.3
21	e0.00	0.44	e0.65	0.71	0.73	0.39	0.83	1.6	0.13	0.91	9.2	221
22	e0.00	0.24	e0.65	0.74	0.73	3.5	0.85	0.41	0.11	0.95	11	234
23	0.00	0.25	e0.65	0.74	0.75	2.5	0.89	0.35	0.10	0.91	20	25
24	0.00	0.25	e0.65	0.76	0.90	0.80	0.84	0.28	1.0	28	9.3	8.3
25	0.00	0.30	e0.65	0.73	0.88	0.49	0.92	0.25	0.14	15	8.9	648
26	0.00	0.32	e0.65	0.69	0.86	0.38	0.90	0.24	0.12	200	8.9	709
27	0.00	0.35	e0.65	0.66	0.82	0.33	0.87	0.24	1.6	17	9.0	260
28	0.00	0.38	e0.65	0.66	0.85	0.35	0.88	0.25	0.12	6.0	9.4	389
29	0.00	0.42	e0.65	0.68	0.82	0.30	0.91	0.24	0.12	5.8	9.7	23
30	0.00	0.42	e0.65	0.70	---	0.26	0.91	0.22	211	3.3	52	e299
31	0.00	---	e0.65	0.71	---	0.24	---	0.19	---	4.7	486	---
TOTAL	185.00	8.74	19.29	22.11	22.03	25.07	1,387.24	24.07	231.48	484.32	1,537.9	3,113.7
MEAN	5.97	0.29	0.62	0.71	0.76	0.81	46.2	0.78	7.72	15.6	49.6	104
MAX	100	0.70	0.65	0.89	0.90	3.5	671	3.3	211	200	486	709
MIN	0.00	0.00	0.50	0.66	0.66	0.24	0.24	0.19	0.10	0.72	2.0	5.3
AC-FT	367	17	38	44	44	50	2,750	48	459	961	3,050	6,180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2004, BY WATER YEAR (WY)

MEAN	26.2	3.20	3.01	3.09	2.91	2.60	5.87	8.64	18.1	13.0	20.8	21.6
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	0.00	0.00	0.00	0.00	0.13	0.42	0.23	0.00	0.00	0.00	0.00	0.00
(WY)	(1952)	(2002)	(2002)	(2002)	(1966)	(1993)	(1968)	(2001)	(1950)	(1947)	(1983)	(1953)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1938 - 2004	
ANNUAL TOTAL	653.22		7,060.95			
ANNUAL MEAN	1.79		19.3		10.8	
HIGHEST ANNUAL MEAN					66.1	1956
LOWEST ANNUAL MEAN					0.71	2001
HIGHEST DAILY MEAN	171	May 26	709	Sep 26	22,000	Oct 2, 1955
LOWEST DAILY MEAN	0.00	Apr 29	0.00	Oct 1	c0.00	Jun 12, 1938
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 29	0.00	Oct 1	0.00	Jul 29, 1946
MAXIMUM PEAK FLOW			2,280	Apr 4	a81,400	Oct 2, 1955
MAXIMUM PEAK STAGE			8.27	Apr 4	b27.00	Oct 2, 1955
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Jun 11, 1938
ANNUAL RUNOFF (AC-FT)	1,300		14,010		7,830	
10 PERCENT EXCEEDS	1.4		15		6.9	
50 PERCENT EXCEEDS	0.09		0.76		2.0	
90 PERCENT EXCEEDS	0.00		0.07		0.00	

a From rating curve extended above 6,500 ft^3/s, on basis of slope-area measurement at gage heights 12.84 ft, 17.55 ft, and 27.0 ft.
b From floodmarks.
c No flow most days.
e Estimated

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).

WATER-DISCHARGE RECORDS

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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	4.8	4.3	4.8	4.2	3.4	0.10	18	11	7.2	6.5	3.0
2	2.6	4.2	4.5	4.6	4.2	3.7	0.76	17	11	6.7	7.5	3.0
3	3.4	4.9	4.5	4.3	4.3	3.5	0.86	12	11	6.6	7.0	3.0
4	3.1	6.1	4.1	4.3	4.3	3.7	11	11	7.5	6.3	7.1	3.4
5	2.5	6.7	3.8	4.3	4.3	3.9	30	11	4.1	6.0	7.3	3.4
6	2.5	6.3	3.8	4.5	4.3	3.5	20	11	0.82	4.1	8.4	3.2
7	2.7	6.3	4.0	5.2	4.3	3.5	12	9.0	0.70	2.4	5.8	3.1
8	3.1	5.8	4.7	5.9	4.3	3.8	8.1	3.7	0.88	1.7	1.9	2.7
9	2.9	6.0	4.7	5.7	4.3	3.9	10	3.5	0.99	0.93	1.9	2.5
10	2.8	6.1	3.9	5.6	4.3	3.8	12	8.8	1.9	0.93	2.7	2.4
11	2.9	6.8	4.5	5.4	4.3	3.5	16	15	4.7	1.1	6.3	2.5
12	3.0	7.3	5.2	5.4	4.3	3.8	23	15	8.0	1.1	2.7	2.5
13	3.3	16	5.0	5.0	4.3	3.9	31	14	9.6	1.2	13	2.4
14	3.8	8.0	5.0	5.2	4.3	12	40	13	9.2	4.0	3.9	2.3
15	3.9	6.5	5.0	5.9	4.3	8.4	41	13	9.1	5.4	8.5	2.4
16	3.3	6.0	4.7	5.5	4.3	6.5	36	12	9.0	5.3	23	2.6
17	3.0	5.9	3.9	5.3	4.2	5.3	26	12	8.4	5.0	20	3.2
18	3.0	5.7	3.9	5.0	4.1	4.8	21	11	8.1	4.9	6.1	3.7
19	3.0	5.6	4.1	4.8	4.0	4.6	19	6.3	7.8	4.9	3.2	4.4
20	2.9	5.5	3.9	4.7	4.0	4.4	17	1.3	5.5	5.0	2.5	4.6
21	3.1	5.3	3.7	4.5	3.7	4.2	17	1.7	2.7	5.2	2.5	4.2
22	3.4	5.5	4.2	4.5	2.8	3.7	17	1.6	3.4	3.1	2.5	4.2
23	3.5	5.8	4.8	4.5	2.8	1.1	15	1.6	2.8	1.0	2.2	4.1
24	3.3	5.7	4.8	4.5	2.7	0.96	17	2.0	1.1	1.5	1.9	3.8
25	3.2	5.5	5.0	4.8	2.8	0.78	21	3.0	1.2	1.2	2.1	3.7
26	3.7	5.3	5.0	4.5	2.8	0.71	20	7.8	1.2	1.3	2.3	4.1
27	4.2	5.2	4.8	4.5	3.0	0.39	19	15	1.5	1.6	2.2	3.6
28	4.6	5.0	4.6	4.3	3.0	0.13	19	13	7.7	1.6	2.2	3.6
29	4.7	4.7	4.5	4.3	3.2	0.07	18	13	8.7	1.6	2.1	8.9
30	4.1	4.3	4.4	4.2	---	0.08	18	12	7.9	4.6	2.4	6.5
31	4.3	---	4.7	4.3	---	0.10	---	11	---	6.4	2.7	---
TOTAL	102.6	182.8	138.0	150.3	111.7	106.12	555.82	299.3	167.49	109.86	170.4	107.0
MEAN	3.31	6.09	4.45	4.85	3.85	3.42	18.5	9.65	5.58	3.54	5.50	3.57
MAX	4.7	16	5.2	5.9	4.3	12	41	18	11	7.2	23	8.9
MIN	2.5	4.2	3.7	4.2	2.7	0.07	0.10	1.3	0.70	0.93	1.9	2.3
AC-FT	204	363	274	298	222	210	1,100	594	332	218	338	212

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2004, BY WATER YEAR (WY)

MEAN	12.1	12.3	28.0	24.1	23.3	27.6	21.2	13.9	7.32	10.7	29.6	12.3
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	2.98	2.16	1.95	1.09	0.28	1.64	0.94	0.87
(WY)	(1995)	(1981)	(1981)	(1981)	(2003)	(1990)	(2003)	(2003)	(2002)	(1994)	(2000)	(2000)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1978 - 2004	
ANNUAL TOTAL	1,132.62		2,201.39			
ANNUAL MEAN	3.10		6.01		18.5	
HIGHEST ANNUAL MEAN					45.1	1985
LOWEST ANNUAL MEAN					3.13	2003
HIGHEST DAILY MEAN	16	Nov 13	41	Apr 15	2,500	Dec 28, 1984
LOWEST DAILY MEAN	0.53	May 31	0.07	Mar 29	0.00	Jun 16, 2002
ANNUAL SEVEN-DAY MINIMUM	0.63	May 30	0.23	Mar 26	0.00	Jun 16, 2002
MAXIMUM PEAK FLOW			268	Aug 13	a6,360	Dec 28, 1984
MAXIMUM PEAK STAGE			3.16	Aug 13	b8.05	Dec 28, 1984
INSTANTANEOUS LOW FLOW					0.00	Jun 16, 2002
ANNUAL RUNOFF (AC-FT)	2,250		4,370		13,430	
10 PERCENT EXCEEDS	5.1		12		41	
50 PERCENT EXCEEDS	3.1		4.3		7.6	
90 PERCENT EXCEEDS	1.1		1.7		2.5	

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.

08477110 MIMBRES RIVER AT MIMBRES, NM—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978-86, 2001 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
JAN													
14...	1520	5.5	615	9.6	108	8.9	241	6.5	11.0	110	31.5	6.93	2.77
MAR													
17...	1330	5.5	614	9.4	132	9.1	216	23.5	21.0	96	28.2	6.20	2.83
MAY													
20...	0850	1.5	615	9.6	111	8.5	240	20.0	12.0	110	31.8	6.35	2.74
JUL													
28...	1240	1.6	616	9.0	135	9.3	247	25.0	24.5	110	34.9	6.33	2.86

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
JAN													
14...	.5	12.2	124	144	4	3.68	.3	51.5	4.5	188	<.20	<.20	<.01
MAR													
17...	.5	12.0	106	115	E7	3.21	.3	49.0	5.8	164	--	--	--
MAY													
20...	.5	10.7	114	134	2	2.94	.3	48.0	7.3	178	--	--	--
JUL													
28...	.5	11.9	129	E128	E14	3.22	.3	52.8	6.1	196	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)
JAN													
14...	.03	.07	<.010	.03	.04	.05	E1	<.20	M	28	<.06	11	<.04
MAR													
17...	--	--	--	--	--	--	--	--	--	--	--	9.3	--
MAY													
20...	--	--	--	--	--	--	--	--	--	--	--	12	--
JUL													
28...	--	--	--	--	--	--	--	--	--	--	--	13	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recoverable, ug/L (71900)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)
JAN													
14...	<.8	.097	.6	<6	<.08	.7	<.02	E.2	.56	<3	<3	<.2	E.4
MAR													
17...	--	--	--	E4	--	--	<.02	--	--	--	<3	--	--
MAY													
20...	--	--	--	E6	--	--	<.02	--	--	--	<3	--	--
JUL													
28...	--	--	--	<6	--	--	<.02	--	--	--	<3	--	--

08477110 MIMBRES RIVER AT MIMBRES, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)
JAN			
14...	.68	97	15
MAR			
17...	--	100	20
MAY			
20...	--	92	3
JUL			
28...	--	98	27

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

08480594 MALPAIS SPRING NEAR OSCURA, NM

LOCATION.--Lat 33°17'15", long 106°18'33", in SE ¼ NE ¼ NE ¼ sec.8, T.11 S., R.6 E., Otero County, Hydrologic Unit 13050003, on right bank 50 ft downstream from Range Road 9 and 70 mi north of White Sands Missile Range Headquarters.

PERIOD OF RECORD.--July 2003 to current year.

WATER-DISCHARGE RECORDS

GAGE.--Water-stage recorder. Elevation of gage is 4,150 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for those estimated, which are poor. Station located above all known diversions. Several observations of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2.8 ft^3/s, Mar. 26; minimum daily discharge, 0.88 ft^3/s, July 20.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.98	1.1	1.2	1.3	1.3	2.3	1.7	1.5	1.7	1.4	1.1	1.1
2	e0.96	1.1	1.2	1.3	1.3	2.3	1.9	1.5	1.7	1.3	1.1	1.2
3	0.90	1.2	1.2	1.3	1.4	2.3	1.9	1.6	1.7	1.3	1.2	1.1
4	0.92	1.1	1.1	1.2	1.4	2.5	2.2	1.5	1.8	1.3	1.3	1.2
5	0.93	1.2	1.1	1.1	1.5	2.6	2.2	1.5	1.8	1.2	1.2	1.2
6	0.90	1.1	1.2	1.1	1.4	2.6	2.1	1.5	1.8	1.2	1.2	1.1
7	0.94	1.2	1.2	1.1	1.4	2.5	2.0	1.5	1.5	1.1	1.2	1.1
8	1.0	1.2	1.3	1.1	1.4	2.5	1.9	1.5	1.2	1.1	1.1	1.0
9	0.98	1.2	1.2	1.3	1.6	2.5	1.9	1.5	1.2	1.1	1.1	1.1
10	1.0	1.2	1.2	1.1	1.7	2.5	1.9	1.5	1.1	1.1	1.1	1.0
11	1.0	1.2	1.2	1.2	1.8	2.4	2.7	1.6	1.2	1.1	1.1	1.0
12	0.99	1.2	1.2	1.3	2.5	2.7	2.4	1.5	1.2	1.0	1.1	1.0
13	0.99	1.4	1.2	1.5	2.4	2.7	2.2	1.5	1.1	1.0	1.2	1.0
14	0.95	1.5	1.2	1.4	2.3	2.6	2.1	1.6	1.1	1.1	1.5	1.0
15	0.97	1.4	1.2	1.4	2.2	2.6	2.1	1.7	1.0	1.1	1.4	0.99
16	0.97	1.4	1.2	1.3	2.1	2.6	2.0	1.8	0.99	1.1	1.4	0.97
17	0.95	1.4	1.2	1.2	2.0	2.6	1.9	1.7	1.0	1.0	1.4	0.96
18	0.95	1.4	1.2	1.2	2.0	2.5	1.9	1.7	1.0	0.97	1.4	0.99
19	0.97	1.4	1.2	1.3	2.0	2.6	1.9	1.7	1.0	0.90	1.4	1.1
20	0.97	1.4	1.3	1.3	2.1	2.6	1.8	1.6	1.1	0.88	1.3	1.1
21	0.95	1.4	1.3	1.3	2.2	2.6	1.8	1.6	1.0	1.1	1.3	1.1
22	0.96	1.5	1.2	1.3	2.2	2.7	1.7	1.6	1.0	1.3	1.3	1.0
23	0.98	1.4	1.2	1.3	2.2	2.7	1.6	1.6	1.0	1.2	1.3	1.0
24	0.99	1.4	1.2	1.3	2.3	2.7	1.6	1.6	1.1	1.2	1.2	1.0
25	1.0	1.5	1.3	1.3	2.2	2.6	1.6	1.7	1.1	1.3	1.3	1.1
26	1.0	1.3	1.3	1.3	2.2	2.8	1.5	1.6	1.1	1.3	1.2	1.2
27	1.0	1.2	1.3	1.3	2.2	2.7	1.7	1.7	1.1	1.2	1.2	1.2
28	1.0	1.2	1.2	1.3	2.4	2.7	1.7	1.7	1.0	1.3	1.2	1.1
29	1.0	1.2	1.3	1.3	2.3	2.5	1.6	1.7	1.4	1.2	1.2	1.2
30	1.0	1.2	1.3	1.3	---	1.8	1.6	1.7	1.5	1.2	1.2	1.3
31	1.1	---	1.3	1.4	---	1.7	---	1.7	---	1.1	1.1	---
TOTAL	30.20	38.6	37.9	39.4	56.0	78.0	57.1	49.7	37.49	35.65	38.3	32.41
MEAN	0.97	1.29	1.22	1.27	1.93	2.52	1.90	1.60	1.25	1.15	1.24	1.08
MAX	1.1	1.5	1.3	1.5	2.5	2.8	2.7	1.8	1.8	1.4	1.5	1.3
MIN	0.90	1.1	1.1	1.1	1.3	1.7	1.5	1.5	0.99	0.88	1.1	0.96
AC-FT	60	77	75	78	111	155	113	99	74	71	76	64

WTR YR 2004 TOTAL 530.75 MEAN 1.45 MAX 2.8 MIN 0.88 AC-FT 1050

e Estimated

08480594 MALPAIS SPRING NEAR OSCURA, NM—Continued

WATER-QUALITY RECORDS

Period of record.--Water years 2003 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
MAR													
29...	1300	2.6	664	8.6	101	7.6	6,140	24.5	15.3	2,400	710	152	7.85
JUN													
07...	1130	1.4	652	7.4	90	7.3	5,400	39.5	16.3	2,500	719	156	7.43

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
MAR													
29...	6	655	48	58	.44	1,180	1.3	29.4	1,870	4,670	4,860	3.25	<.008
JUN													
07...	6	689	52	64	.48	1,190	1.3	29.5	1,840	4,670	4,920	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)
MAR													
29...	<.02	E3	E1	E8.3	<2.0	235	<16	E14	<13	<25	<32	<.24	59
JUN													
07...	--	<150	<2	11.4	<1.2	217	<10	E11	<8	<15	<19	<.24	60

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)
MAR									
29...	<4.0	<.02	E12	<10	<3	<14	12,100	<115	4
JUN									
07...	<2.4	--	E11	M	<3	<8	13,000	E8	<9

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

08480595 SALT CREEK NEAR TULAROSA, NM

LOCATION.--Lat 33°16'32", long 106°23'50", in SE ¼ NE ¼ sec.16, T.12 S., R.6 E., Sierra County, Hydrologic Unit 13050003, on right bank, 360 ft upstream from Range Road 316, 0.5 mi east of Range Road 7, and about 65 mi north of small missile range on U.S. Highway 70.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1995 to current year. Published as "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 fair except for those estimated, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	e0.00	0.17	0.25	0.32	e0.35	e0.30	0.41	0.07	e0.05	0.38	0.12
2	0.00	e0.00	0.17	0.24	0.29	e0.36	e0.28	0.37	0.00	e0.00	0.28	0.09
3	e0.00	e0.00	0.17	0.23	0.32	e0.35	e0.30	0.38	0.00	e0.00	0.24	0.04
4	e0.00	e0.00	0.17	0.23	0.35	e0.34	e0.29	0.36	0.01	e0.00	85	0.00
5	e0.00	e0.00	0.16	0.22	0.34	e0.34	e0.27	0.36	0.15	e0.00	4.6	0.09
6	e0.00	e0.00	0.17	0.22	0.33	e0.33	e0.26	0.33	0.15	e0.00	2.2	0.04
7	e0.08	e0.00	0.18	0.23	0.32	e0.32	e0.24	0.31	0.12	e0.00	24	0.00
8	e0.10	e0.00	0.18	0.25	0.34	e0.32	e0.25	0.30	0.01	e0.00	2.2	0.00
9	e0.09	e0.00	0.19	0.24	0.32	e0.31	e0.26	0.30	0.00	e0.00	1.0	0.00
10	e0.08	e0.00	0.18	0.23	0.32	e0.31	e0.25	0.30	0.00	e0.00	0.63	0.00
11	e0.06	e0.04	0.19	0.24	0.32	e0.30	e0.28	0.27	0.00	e0.00	0.38	0.00
12	e0.03	e0.10	0.20	0.24	0.34	e0.30	e60	0.25	0.00	e0.00	0.21	0.00
13	e0.01	e0.17	0.18	0.24	0.32	e0.29	e4.0	0.25	0.00	e0.00	0.40	0.00
14	e0.00	e0.50	0.19	0.25	0.34	e0.29	0.98	0.24	0.00	e60	9.5	0.00
15	e0.00	e0.40	0.19	0.30	0.37	e0.30	0.83	0.24	0.00	e3.5	0.48	0.00
16	e0.00	e0.30	0.16	0.38	0.36	e0.31	0.71	0.24	0.00	e1.0	79	0.00
17	e0.00	e0.25	0.17	0.30	0.34	e0.30	0.66	0.23	0.00	e0.80	2.0	0.00
18	e0.00	e0.22	0.21	0.27	e0.35	e0.29	0.62	0.21	0.00	e0.62	1.5	0.00
19	e0.00	e0.21	0.21	0.29	e0.35	e0.28	0.57	0.20	0.00	e0.45	0.56	0.18
20	e0.00	e0.20	0.20	0.30	e0.36	e0.28	0.57	0.19	0.00	e0.30	0.23	0.40
21	e0.00	e0.19	0.21	0.30	e0.37	e0.27	0.53	0.17	0.00	e0.25	0.19	0.39
22	e0.00	e0.18	0.22	0.30	e0.38	e0.28	0.49	0.15	0.00	e0.22	0.16	0.18
23	e0.00	e0.17	0.21	0.30	e0.37	e0.29	0.50	0.14	0.00	e0.20	0.15	0.12
24	e0.00	e0.16	0.22	0.31	e0.36	e0.28	0.48	0.14	0.00	0.18	0.13	0.11
25	e0.00	e0.16	0.22	0.30	e0.35	e0.27	0.47	0.14	0.00	17	0.13	0.43
26	e0.04	e0.15	0.21	0.31	e0.36	e0.25	0.45	0.17	0.00	1.0	0.13	65
27	e0.03	e0.14	0.23	0.28	e0.35	e0.23	0.44	0.19	18	0.59	0.11	0.91
28	e0.01	e0.14	0.20	0.31	e0.34	e0.22	0.44	0.18	e0.30	0.60	0.10	0.30
29	e0.00	0.15	0.20	0.32	e0.35	e0.21	0.41	0.15	e0.18	0.60	0.01	0.24
30	e0.00	0.16	0.23	0.31	---	e0.22	0.42	0.14	e0.10	0.56	0.15	0.27
31	e0.00	---	0.25	0.31	---	e0.24	---	0.11	---	0.52	0.18	---
TOTAL	0.53	3.99	6.04	8.50	9.93	9.03	76.55	7.42	19.09	88.44	216.23	68.91
MEAN	0.02	0.13	0.19	0.27	0.34	0.29	2.55	0.24	0.64	2.85	6.98	2.30
MAX	0.10	0.50	0.25	0.38	0.38	0.36	60	0.41	18	60	85	65
MIN	0.00	0.00	0.16	0.22	0.29	0.21	0.24	0.11	0.00	0.00	0.01	0.00
AC-FT	1.1	7.9	12	17	20	18	152	15	38	175	429	137

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2004, BY WATER YEAR (WY)

MEAN	0.85	0.67	0.80	0.76	0.71	0.66	0.79	0.55	0.88	2.04	2.17	1.76
MAX	2.24	1.80	1.39	1.25	1.16	1.14	2.55	1.47	2.46	6.80	6.98	7.74
(WY)	(2003)	(1999)	(2003)	(2000)	(2003)	(2001)	(2004)	(2001)	(1996)	(1999)	(2004)	(2001)
MIN	0.02	0.13	0.19	0.27	0.34	0.29	0.38	0.23	0.23	0.01	0.29	0.06
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2002)	(2003)	(2002)	(2003)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1995 - 2004	
ANNUAL TOTAL	171.31		514.66			
ANNUAL MEAN	0.47		1.41		1.05	
HIGHEST ANNUAL MEAN					1.53	1999
LOWEST ANNUAL MEAN					0.52	2002
HIGHEST DAILY MEAN	26	Aug 29	85	Aug 4	100	Sep 16, 2001
LOWEST DAILY MEAN	0.00	Jul 5	0.00	Oct 1	0.00	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 5	0.00	Oct 14	0.00	Jul 5, 2003
MAXIMUM PEAK FLOW			234	Aug 4	300	Sep 16, 2001
MAXIMUM PEAK STAGE			5.66	Aug 4	7.05	Sep 16, 2001
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Aug 13, 2002
ANNUAL RUNOFF (AC-FT)	340		1,020		761	
10 PERCENT EXCEEDS	0.92		0.52		1.0	
50 PERCENT EXCEEDS	0.21		0.23		0.48	
90 PERCENT EXCEEDS	0.00		0.00		0.17	

e Estimated

08480595 SALT CREEK NEAR TULAROSA, NM—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1995 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV													
28...	1005	.14	--	--	--	--	--	4.5	.0	--	--	--	--
DEC													
04...	1120	.17	--	--	--	--	--	18.5	4.0	--	--	--	--
JAN													
09...	1220	.23	--	--	--	--	--	15.5	2.0	--	--	--	--
FEB													
17...	1115	.34	--	--	--	--	25,800	19.5	4.0	--	--	--	--
MAR													
29...	1045	.21	666	8.7	101	7.9	28,600	21.0	11.1	4,300	882	497	159
APR													
13...	1030	1.5	--	--	--	--	--	--	11.0	--	--	--	--
JUN													
07...	1600	.11	--	--	--	--	--	36.0	17.5	--	--	--	--
JUL													
24...	1215	.17	--	--	--	--	--	34.5	25.5	--	--	--	--
AUG													
13...	1115	.03	--	--	--	--	--	29.0	24.5	--	--	--	--
SEP													
01...	1230	.12	--	--	--	--	31,400	27.0	19.0	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
NOV													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
29...	42	6,240	108	130	2.33	9,560	4.4	2.16	3,990	21,400	22,400	<.06	<.008
APR													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)
NOV													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
29...	<.02	<1,250	E5	E38.5	<8.0	1,020	<80	<105	<65	<100	E86	<.96	2,060
APR													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--

08480595 SALT CREEK NEAR TULAROSA, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
NOV											
28...	--	--	--	--	--	--	--	--	--	72	5
DEC											
04...	--	--	--	--	--	--	--	--	--	78	6
JAN											
09...	--	--	--	--	--	--	--	--	--	56	7
FEB											
17...	--	--	--	--	--	--	--	--	--	90	10
MAR											
29...	48.5	<.02	<100	60	E5	<70	20,800	<92	<75	57	4
APR											
13...	--	--	--	--	--	--	--	--	--	79	22
JUN											
07...	--	--	--	--	--	--	--	--	--	92	23
JUL											
24...	--	--	--	--	--	--	--	--	--	98	11
AUG											
13...	--	--	--	--	--	--	--	--	--	99	27
SEP											
01...	--	--	--	--	--	--	--	--	--	96	7

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

08481500 TULAROSA CREEK NEAR BENT, NM

LOCATION.--Lat 33°08'41", long 105°53'50", in SE $^1/_4$ NW $^1/_4$ sec.32, T.13 S., R.11 E., Otero County, Hydrologic Unit 13044503, on right bank, 45 ft downstream from bridge on old U.S. Highway 70, 2.6 mi west of Bent, 8.5 mi northeast of Tularosa, and at mile 19.4.

DRAINAGE AREA.--120 mi^2, approximately.

PERIOD OF RECORD.--December 1947 to November 1996, April 2002 to current year. Prior to October 1982 published as "Rio Tularosa near Bent."

REVISED RECORDS.--WSP 1312: 1949 (M).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 5,450 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair. Diversions for irrigation of about 1,000 acres, 1959 determination, upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood probably occurred Sept. 3, 1938, when a peak of 9,640 ft^3/s was computed for station approximately 6 mi downstream near Tularosa. Another flood may have occurred July 2, 1914.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	16	15	16	15	17	16	13	12	11	17	19
2	14	15	15	16	15	17	16	11	12	12	13	19
3	14	15	15	16	15	17	16	12	12	12	13	19
4	14	15	15	15	15	17	14	11	11	12	13	18
5	13	15	15	15	15	18	17	12	11	12	13	16
6	14	15	15	16	15	17	19	12	12	12	13	14
7	15	15	15	16	15	16	19	12	12	12	13	15
8	16	15	16	16	15	15	19	12	12	12	13	18
9	16	15	16	15	15	15	18	12	12	12	13	16
10	16	15	16	16	15	15	18	12	12	12	13	17
11	16	15	16	15	15	16	20	12	11	12	13	16
12	16	15	16	15	15	17	19	11	11	11	13	16
13	15	15	16	15	15	17	18	11	10	12	13	15
14	15	17	16	15	16	16	17	11	10	12	14	14
15	15	15	15	15	16	16	17	11	11	12	16	14
16	15	15	15	15	16	16	16	10	12	12	27	14
17	15	15	15	15	16	16	15	9.5	12	12	13	14
18	15	15	15	15	16	16	14	11	12	12	13	14
19	14	16	16	16	16	16	15	12	12	12	13	13
20	13	16	16	16	16	16	15	13	12	12	13	13
21	13	16	16	15	16	14	15	13	12	14	13	14
22	15	15	16	15	16	16	15	13	13	12	13	14
23	15	15	16	15	16	16	14	11	13	12	13	14
24	15	15	16	15	17	16	14	12	12	12	13	16
25	15	15	16	15	16	16	13	12	12	12	13	17
26	15	15	16	15	16	17	13	12	12	12	13	16
27	15	15	15	15	16	17	13	13	11	12	13	17
28	16	15	16	15	17	16	13	13	12	12	14	20
29	16	15	15	15	17	15	13	13	11	12	17	21
30	16	15	15	15	---	16	13	12	11	12	20	44
31	15	---	16	15	---	16	---	11	---	12	19	---
TOTAL	461	456	482	474	454	501	474	365.5	350	372	443	507
MEAN	14.9	15.2	15.5	15.3	15.7	16.2	15.8	11.8	11.7	12.0	14.3	16.9
MAX	16	17	16	16	17	18	20	13	13	14	27	44
MIN	13	15	15	15	15	14	13	9.5	10	11	13	13
AC-FT	914	904	956	940	901	994	940	725	694	738	879	1,010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2004, BY WATER YEAR (WY)

MEAN	12.8	13.6	14.2	14.4	14.4	14.0	13.4	12.1	10.8	12.6	14.7	13.4
MAX	26.0	26.9	26.5	27.3	26.1	24.5	24.7	24.3	21.1	29.5	40.9	36.0
(WY)	(1991)	(1992)	(1992)	(1995)	(1992)	(1992)	(1992)	(1992)	(1988)	(1995)	(1996)	(1990)
MIN	6.88	7.68	6.91	7.36	8.05	7.66	7.66	5.82	5.09	4.18	4.94	5.68
(WY)	(1962)	(1971)	(1971)	(1967)	(1967)	(1958)	(1960)	(1958)	(1963)	(1963)	(1970)	(1954)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1948 - 2004	
ANNUAL TOTAL	5,350		5,339.5			
ANNUAL MEAN	14.7		14.6		13.3	
HIGHEST ANNUAL MEAN					23.6	1991
LOWEST ANNUAL MEAN					8.19	1958
HIGHEST DAILY MEAN	20	Jan 8	44	Sep 30	631	Aug 14, 1980
LOWEST DAILY MEAN	10	Jul 27	9.5	May 17	1.4	Aug 3, 1959
ANNUAL SEVEN-DAY MINIMUM	12	Jul 23	11	May 12	2.1	Aug 3, 1959
MAXIMUM PEAK FLOW			757	Aug 16	4,640	Jul 22, 2002
MAXIMUM PEAK STAGE			3.33	Aug 16	5.60	Aug 8, 1988
INSTANTANEOUS LOW FLOW			7.2	May 16	0.00	May 14, 1955
ANNUAL RUNOFF (AC-FT)	10,610		10,590		9,670	
10 PERCENT EXCEEDS	17		17		22	
50 PERCENT EXCEEDS	15		15		12	
90 PERCENT EXCEEDS	13		12		6.6	

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 5 ft above the maximum water surface of Navajo Reservoir, 3 mi northwest of Carracas, and 7.2 mi upstream from Piedra River.

DRAINAGE AREA.--1,230 mi^2, approximately.

PERIOD OF RECORD.--Streamflow records, October 1961 to current year. Statistical summary computed for 1971 to current year. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=09346400

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 6,090 ft above NGVD of 1929, from river-profile map.

REMARKS.--Records good except for Mar. 11-21 and estimated daily discharges, which are poor. Diversions for irrigation of about 11,000 acres upstream from station. High-water diversions upstream from station into Rio Grande Basin through Azotea Tunnel (station 08284160) began in Mar. 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Major floods occurred Sept. 5 or 6, 1909; Oct. 5, 1911; and June 29, 1927.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	80	e153	e166	e130	161	880	853	1,180	479	162	42
2	83	150	e157	e125	e133	163	929	880	1,150	403	151	40
3	156	280	160	e111	e138	169	941	890	1,290	353	174	41
4	218	321	150	e82	e137	212	1,060	1,100	1,460	322	182	93
5	204	208	147	e73	e130	228	1,080	1,310	1,560	295	152	707
6	170	172	153	e132	e111	173	923	1,520	1,520	267	182	315
7	145	153	145	e163	e95	218	848	1,700	1,630	242	153	205
8	142	154	142	e182	e106	321	891	1,780	1,670	229	176	161
9	134	157	150	e178	e119	455	927	1,760	1,550	221	140	137
10	121	151	120	e152	e120	550	954	1,760	1,420	205	119	125
11	129	158	95	e152	e108	612	927	1,810	1,260	195	115	117
12	125	172	118	e152	e103	699	933	1,720	1,100	175	108	111
13	116	245	121	e148	e100	844	750	1,450	972	173	97	100
14	111	288	119	e144	e90	886	696	1,230	973	163	93	93
15	110	257	e120	e152	e119	924	688	1,150	1,030	192	92	81
16	105	207	e111	e180	e122	900	718	1,250	978	210	104	72
17	101	188	e74	e182	e115	796	782	1,410	912	227	107	68
18	99	181	e92	e165	e126	879	815	1,440	827	201	95	67
19	95	153	e118	e151	e164	977	768	1,590	776	219	129	263
20	87	159	e129	e166	e210	1,120	726	1,670	742	230	109	3,360
21	78	174	e134	e173	e213	1,300	686	1,730	691	200	115	1,640
22	83	175	e130	e165	e210	1,330	648	1,690	627	186	112	1,210
23	79	172	e127	e106	e204	1,260	636	1,510	573	174	106	864
24	74	135	e129	e102	e179	1,290	572	1,330	510	369	99	688
25	78	161	e137	e153	209	1,310	532	1,230	465	271	88	558
26	80	160	154	e155	227	1,320	519	1,150	472	230	81	472
27	79	153	195	e103	228	1,230	578	1,200	464	237	72	431
28	80	e138	e87	e87	226	979	743	1,280	438	237	62	376
29	80	e141	e76	e128	175	812	871	1,480	475	228	56	408
30	78	e148	e77	e130	---	773	891	1,340	483	198	51	562
31	77	---	e155	e132	---	811	---	1,200	---	181	45	---
TOTAL	3,394	5,391	3,975	4,390	4,347	23,702	23,912	43,413	29,198	7,512	3,527	13,407
MEAN	109	180	128	142	150	765	797	1,400	973	242	114	447
MAX	218	321	195	182	228	1,330	1,080	1,810	1,670	479	182	3,360
MIN	74	80	74	73	90	161	519	853	438	163	45	40
AC-FT	6,730	10,690	7,880	8,710	8,620	47,010	47,430	86,110	57,910	14,900	7,000	26,590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2004, BY WATER YEAR (WY)

MEAN	293	238	171	155	189	579	1,023	1,679	1,678	598	323	289
MAX	932	983	406	296	481	1,369	2,524	3,195	4,039	2,427	1,004	880
(WY)	(1987)	(1987)	(1987)	(1987)	(1986)	(1995)	(1979)	(1973)	(1985)	(1995)	(1999)	(1982)
MIN	106	104	72.9	71.7	85.0	130	233	269	72.1	22.5	18.8	61.2
(WY)	(1979)	(1990)	(1990)	(2003)	(1990)	(2002)	(1977)	(2002)	(2002)	(2002)	(2002)	(1978)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1971 - 2004	
ANNUAL TOTAL	103,623		166,168			
ANNUAL MEAN	284		454		a602	
HIGHEST ANNUAL MEAN					b1,191	1985
LOWEST ANNUAL MEAN					b112	2002
HIGHEST DAILY MEAN	2,080	Sep 10	3,360	Sep 20	b6,700	Mar 12, 1985
LOWEST DAILY MEAN	37	Aug 22	40	Sep 2	c0.80	Sep 1, 2002
ANNUAL SEVEN-DAY MINIMUM	49	Aug 17	48	Aug 28	1.3	Aug 31, 2002
MAXIMUM PEAK FLOW			4,620	Sep 20	d8,590	Mar 6, 1995
MAXIMUM PEAK STAGE			6.20	Sep 20	f8.10	Mar 6, 1995
ANNUAL RUNOFF (AC-FT)	205,500		329,600		436,200	
10 PERCENT EXCEEDS	678		1,260		1,630	
50 PERCENT EXCEEDS	145		181		268	
90 PERCENT EXCEEDS	69		89		104	

e Estimated
a Average discharge for 9 years (water years 1962-70), 632 ft^3/s; 457,900 acre-ft/yr, prior to completion of Azotea Tunnel.
b Also the highest (or lowest, as is appropriate) for the period of record.
c Also minimum daily discharge for period of record.
d Maximum discharge for period of record, 9,730 ft^3/s, Sept. 6, 1970, gage height, 8.34 ft, from rating curve extended above 6,000 ft^3/s, on basis of slope-area measurement of peak flow.
f Maximum gage height for statistical period and period of record, 9.63 ft, Jan. 4, 1994, backwater from ice.

09349800 PIEDRA RIVER NEAR ARBOLES, CO

LOCATION.--Lat 37°05'18", long 107°23'50", in NE ¼ SW ¼ 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. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=09349800

GAGE.--Water-stage recorder with satellite telemetry, and crest-stage gage. Datum of gage is 6,147.52 ft above NGVD of 1929, 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.

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	45	60	e61	e58	84	886	697	775	307	110	58
2	58	72	63	e55	e58	92	899	681	762	250	106	50
3	76	123	64	e53	e59	97	1,000	731	859	216	106	47
4	104	118	59	e50	e58	122	1,380	909	948	189	110	66
5	120	83	e59	e55	e56	129	1,400	1,090	997	168	103	228
6	102	74	e59	e61	e53	107	1,140	1,240	1,020	146	114	139
7	98	68	e59	e64	e55	120	986	1,380	1,110	132	120	102
8	90	68	e58	e65	e56	156	1,010	1,470	1,140	123	125	84
9	82	68	e54	e60	e56	209	989	1,430	1,050	115	104	79
10	77	67	58	e60	e55	270	937	1,390	925	106	97	69
11	69	69	52	e60	e55	323	865	1,410	788	105	95	67
12	61	69	e52	e59	e54	376	922	1,290	681	107	92	68
13	57	100	e53	e59	e53	463	779	1,050	597	104	86	64
14	52	105	53	e59	e56	473	746	855	604	94	84	65
15	49	96	e52	e63	e57	476	733	797	632	95	74	62
16	47	83	e51	e64	e57	469	752	864	602	112	74	61
17	46	79	e53	e64	e57	459	789	1,010	553	116	77	60
18	45	75	e56	e60	59	536	817	1,030	504	112	77	56
19	45	62	e57	e61	71	638	768	1,160	479	127	89	238
20	44	67	e58	e62	75	785	705	1,260	449	119	85	1,660
21	43	72	e57	e61	77	950	671	1,310	419	116	87	1,220
22	41	85	e57	e55	84	1,140	628	1,220	378	112	89	755
23	39	65	e57	e55	83	1,200	598	1,060	341	120	90	527
24	39	40	e57	e57	90	1,280	531	914	304	275	82	401
25	42	60	e62	e63	93	1,390	495	851	276	190	74	327
26	42	75	e66	e55	94	1,410	498	812	274	170	71	282
27	41	61	e51	e52	101	1,290	591	859	279	161	67	257
28	41	55	e46	e57	108	1,010	737	926	262	157	64	231
29	43	59	e46	e57	89	843	800	1,060	311	148	60	264
30	43	57	e60	e57	---	823	778	898	352	130	56	359
31	43	---	e62	e58	---	842	---	795	---	116	56	---
TOTAL	1,839	2,220	1,751	1,822	1,977	18,562	24,830	32,449	18,671	4,538	2,724	7,946
MEAN	59.3	74.0	56.5	58.8	68.2	599	828	1,047	622	146	87.9	265
MAX	120	123	66	65	108	1,410	1,400	1,470	1,140	307	125	1,660
MIN	39	40	46	50	53	84	495	681	262	94	56	47
AC-FT	3,650	4,400	3,470	3,610	3,920	36,820	49,250	64,360	37,030	9,000	5,400	15,760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2004, BY WATER YEAR (WY)

MEAN	170	125	88.4	73.3	90.1	322	850	1,261	995	325	217	211
MAX	618	517	257	153	244	895	2,126	2,926	2,526	1,133	1,014	943
(WY)	(1973)	(1987)	(1987)	(1987)	(1986)	(1995)	(1979)	(1979)	(1979)	(1975)	(1999)	(1970)
MIN	51.2	48.4	31.2	21.8	25.7	47.4	126	91.7	24.8	12.7	15.2	35.3
(WY)	(1979)	(1968)	(1990)	(2003)	(2003)	(1964)	(1977)	(2002)	(2002)	(2002)	(2002)	(1978)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1963 - 2004	
ANNUAL TOTAL	63,533		119,329			
ANNUAL MEAN	174		326		395	
HIGHEST ANNUAL MEAN					822	1979
LOWEST ANNUAL MEAN					53.5	2002
HIGHEST DAILY MEAN	1,310	May 29	1,660	Sep 20	5,360	Sep 6, 1970
LOWEST DAILY MEAN	e15	Feb 7	39	Oct 23	a3.9	Aug 26, 2002
ANNUAL SEVEN-DAY MINIMUM	18	Feb 5	41	Oct 22	4.3	Aug 26, 2002
MAXIMUM PEAK FLOW			2,130	Sep 20	b8,370	Sep 6, 1970
MAXIMUM PEAK STAGE			3.91	Sep 20	c6.38	Sep 6, 1970
ANNUAL RUNOFF (AC-FT)	126,000		236,700		285,900	
10 PERCENT EXCEEDS	479		991		1,160	
50 PERCENT EXCEEDS	62		97		143	
90 PERCENT EXCEEDS	24		53		52	

e Estimated
a Also occurred Aug. 28-29, 2002.
b From rating curve extended above 4,400 ft^3/s, on basis of slope-area measurement of peak flow.
c 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 private bridge, at southeast edge of La Boca, 0.5 mi upstream from Spring Creek, and 2 mi upstream from maximum elevation of Navajo Reservoir.

DRAINAGE AREA.--520 mi^2.

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=09354500

REVISED RECORDS.--WDR CO-00-2: drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 6,143.58 ft (revised) above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Vallecito Reservoir (station 09353000, capacity 125,640 acre-ft.) 24 mi upstream since April 1941. Diversions for irrigation of about 55,000 acres upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood on Oct. 5, 1911, has not yet been exceeded.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	19	e22	e18	e22	53	141	637	127	156	165	115
2	24	28	22	e21	e20	52	153	627	140	144	152	119
3	35	47	21	e21	e19	53	358	612	134	142	180	115
4	38	42	22	e21	e23	103	836	598	134	144	145	287
5	27	30	23	e21	e24	119	902	569	127	141	153	310
6	23	26	21	e21	e27	82	399	524	135	132	216	208
7	21	25	20	e20	e25	112	316	497	339	126	149	178
8	20	25	22	e20	e20	138	389	477	574	143	147	158
9	20	24	e21	e20	e24	180	404	444	885	142	130	148
10	19	23	21	e21	e34	205	300	354	689	148	121	141
11	20	23	22	e21	e40	215	284	300	501	129	120	134
12	19	24	22	e21	e38	215	285	264	220	123	111	134
13	17	88	22	e21	e39	219	239	229	127	118	108	126
14	15	78	e21	e21	e48	204	212	201	131	117	115	115
15	9.8	45	21	e21	e67	216	201	168	113	111	121	102
16	12	36	24	e21	e81	203	192	144	234	115	137	99
17	17	32	27	e21	e109	185	187	139	220	147	231	89
18	26	29	27	e21	e121	194	184	134	177	134	169	89
19	30	27	27	e20	e128	209	173	117	132	135	145	317
20	39	26	29	e19	127	233	340	102	129	138	131	311
21	45	26	32	e20	123	260	1,780	92	128	129	129	186
22	46	25	27	e21	131	276	450	112	132	131	139	131
23	43	26	24	e21	112	289	223	120	130	214	139	110
24	32	32	23	e22	120	282	211	125	124	242	132	104
25	23	24	e20	e22	116	295	193	124	120	209	133	102
26	18	24	20	e22	106	276	153	126	129	182	125	102
27	20	22	e18	e22	115	250	126	129	156	185	124	99
28	22	e22	e19	e22	144	200	130	130	146	213	120	93
29	20	e22	e19	e23	80	165	115	127	303	180	116	375
30	20	e22	e19	e23	---	149	241	126	194	172	113	258
31	19	---	e18	e22	---	139	---	130	---	161	110	---
TOTAL	759.8	942	696	651	2,083	5,771	10,117	8,478	6,830	4,703	4,326	4,855
MEAN	24.5	31.4	22.5	21.0	71.8	186	337	273	228	152	140	162
MAX	46	88	32	23	144	295	1,780	637	885	242	231	375
MIN	9.8	19	18	18	19	52	115	92	113	111	108	89
AC-FT	1,510	1,870	1,380	1,290	4,130	11,450	20,070	16,820	13,550	9,330	8,580	9,630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

MEAN	189	130	98.9	72.5	94.4	215	337	415	488	291	232	210
MAX	672	709	396	182	362	972	1,339	1,719	1,555	1,381	1,349	725
(WY)	(1987)	(1987)	(1983)	(1985)	(1993)	(1993)	(1979)	(1958)	(1979)	(1957)	(1999)	(1997)
MIN	24.5	26.8	18.1	16.1	22.9	31.7	22.6	40.6	60.8	23.8	13.0	33.4
(WY)	(2004)	(2003)	(2003)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL TOTAL	17,689.8		50,211.8			
ANNUAL MEAN	48.5		137		234	
HIGHEST ANNUAL MEAN					582	1973
LOWEST ANNUAL MEAN					44.6	2002
HIGHEST DAILY MEAN	727	Sep 10	1,780	Apr 21	4,560	Jul 27, 1957
LOWEST DAILY MEAN	9.8	Oct 15	9.8	Oct 15	6.1	May 1, 1977
ANNUAL SEVEN-DAY MINIMUM	15	Jan 1	16	Oct 11	8.3	Apr 30, 1977
MAXIMUM PEAK FLOW			2,210	Apr 21	a6,400	Jul 27, 1957
MAXIMUM PEAK STAGE			6.62	Apr 21	b8.95	Jul 27, 1957
ANNUAL RUNOFF (AC-FT)	35,090		99,600		169,700	
10 PERCENT EXCEEDS	80		284		533	
50 PERCENT EXCEEDS	39		120		130	
90 PERCENT EXCEEDS	17		21		47	

e Estimated
a From rating curve extended above 5,100 ft^3/s.
b Maximum gage height, 9.00 ft, backwater from ice, sometime during period, Dec. 23, 1990 to Jan. 17, 1991.

09355000 SPRING CREEK AT LA BOCA, CO

LOCATION.--Lat 37°00'40", long 107°35'47", in SE $^1/_4$ 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.

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733. For a complete listing of historical data available for this site, see http://waterdata.usgs.gov/co/nwis/inventory/?site_no=09355000

REVISED RECORDS.-- WDR CO-00-02: drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,160 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. Part of flow is return waste from irrigation. Nearly all irrigation in this basin is water diverted from Los Pinos River, which causes a considerable change in the annual pattern and natural flow.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	0.12	e1.9	e0.65	e1.3	9.7	3.9	15	46	64	59	38
2	2.9	0.32	e1.6	e0.34	e1.2	9.7	4.5	11	46	55	56	41
3	2.2	0.96	e1.9	e0.38	e1.1	12	24	14	49	57	71	43
4	3.0	0.45	e2.1	e0.85	e0.75	32	121	22	48	59	58	126
5	2.8	0.21	e1.6	e0.98	e0.69	26	139	25	44	57	59	143
6	3.0	0.18	e1.4	e1.1	e1.2	12	21	22	48	50	69	59
7	3.1	0.19	e1.8	e0.98	e1.3	14	16	25	52	47	50	52
8	3.2	0.25	e1.5	e0.88	e1.5	13	33	28	45	55	49	51
9	2.9	0.24	e1.5	e0.79	e1.4	13	29	27	50	56	45	47
10	3.4	0.24	e1.2	e0.72	e1.3	12	9.9	26	50	50	45	53
11	3.7	0.27	e1.1	e0.67	e4.4	10	9.3	31	45	45	45	52
12	3.8	0.32	1.1	e0.80	e4.3	9.7	11	41	45	45	44	54
13	4.0	5.6	e1.1	e0.87	e3.8	9.1	11	44	44	44	49	52
14	4.1	3.4	e1.2	e0.92	e6.9	8.5	9.2	44	44	40	49	54
15	4.3	0.85	e1.4	e0.85	e14	8.3	8.3	44	48	39	50	52
16	5.0	0.52	e1.6	e0.95	e18	7.6	7.6	45	49	43	51	54
17	4.7	0.93	e1.6	e1.0	e28	7.0	7.2	51	75	50	118	52
18	3.9	1.7	e1.7	e1.1	e31	7.0	6.9	44	85	49	50	54
19	4.6	2.2	e1.9	e1.00	e34	7.1	6.8	40	53	63	56	168
20	8.0	2.8	e2.2	e0.93	e33	7.3	6.7	41	48	56	51	119
21	9.5	2.9	e1.8	e0.77	e32	7.6	6.5	43	50	48	44	51
22	10	e2.8	e1.5	e0.53	e35	7.6	6.5	41	53	55	39	45
23	11	e2.6	e1.3	e0.64	29	7.8	6.7	46	52	75	40	40
24	1.9	e2.6	e1.1	e0.90	32	8.0	6.4	47	52	76	37	40
25	0.19	e2.6	e1.1	e1.0	29	7.4	6.0	49	52	73	39	42
26	0.09	e2.1	e0.51	e1.0	26	6.8	5.9	43	57	65	37	40
27	0.09	e1.8	e0.80	e1.1	27	6.1	21	40	68	68	38	37
28	0.10	e1.9	e0.75	e1.1	40	5.4	7.2	42	69	74	37	37
29	0.10	e1.9	e0.37	e1.2	14	4.7	7.3	39	160	60	35	80
30	0.09	e1.9	e0.68	e1.2	---	4.2	23	44	77	60	35	65
31	0.09	---	e0.67	e1.3	---	4.0	---	44	---	57	34	---
TOTAL	107.25	44.85	41.98	27.50	453.14	304.6	581.8	1,118	1,704	1,735	1,539	1,841
MEAN	3.46	1.50	1.35	0.89	15.6	9.83	19.4	36.1	56.8	56.0	49.6	61.4
MAX	11	5.6	2.2	1.3	40	32	139	51	160	76	118	168
MIN	0.09	0.12	0.37	0.34	0.69	4.0	3.9	11	44	39	34	37
AC-FT	213	89	83	55	899	604	1,150	2,220	3,380	3,440	3,050	3,650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

MEAN	33.5	10.2	5.30	4.66	9.89	17.8	12.9	38.1	56.9	65.7	64.8	57.0
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	2.63	1.49	1.35	0.45	2.06	2.36	0.57	13.5	24.4	1.07	0.45	0.93
(WY)	(2003)	(2004)	(2004)	(2003)	(2000)	(1999)	(2003)	(2003)	(1977)	(2002)	(2002)	(2002)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL TOTAL	6,339.75		9,498.12			
ANNUAL MEAN	17.4		26.0		31.8	
HIGHEST ANNUAL MEAN					47.7	1987
LOWEST ANNUAL MEAN					9.78	2002
HIGHEST DAILY MEAN	281	Sep 10	168	Sep 19	918	Mar 6, 1995
LOWEST DAILY MEAN	0.01	Sep 20	0.09	Oct 26	0.00	Aug 1, 2002
ANNUAL SEVEN-DAY MINIMUM	0.02	Sep 19	0.10	Oct 26	0.02	Sep 19, 2003
MAXIMUM PEAK FLOW			409	Sep 19	a1,980	Sep 6, 1970
MAXIMUM PEAK STAGE			4.62	Sep 19	b4.62	Sep 6, 1970
ANNUAL RUNOFF (AC-FT)	12,570		18,840		23,010	
10 PERCENT EXCEEDS	48		56		71	
50 PERCENT EXCEEDS	3.4		12		21	
90 PERCENT EXCEEDS	0.27		0.80		3.0	

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 ¼ SE ¼ sec.18, T.30 N., R.7 W., San Juan County, Hydrologic Unit 14080101, in gate shaft of outlet works structure near right abutment of Navajo Dam on San Juan River, 5.5 mi east of Archuleta, 33.0 mi east of Farmington, and at mile 298.6.

DRAINAGE AREA.--3,230 mi^2, approximately.

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

PERIOD OF RECORD.--June 1962 to current year. Prior to October 1968 dead storage included.

REMARKS.--Reservoir is formed by earth rock-fill dam, completed in June 1963; storage began June 27, 1962. Capacity, 1,708,600 acre-ft between elevation 5,720 ft, upstream toe of dam, and 6,085 ft, crest of spillway. Usable capacity 1,696,000 acre-ft above elevation 5,774.9 ft minimum operating level. Dead storage below elevation 5,774.9 ft is 12,600 acre-ft. Figures given herein are usable contents. Reservoir is used for irrigation storage, river regulation, desilting, flood control, and recreation.

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,731,000 acre-ft, July 2-4, 1973, elevation, 6,087.25 ft; minimum contents after June 1964 (initial filling period), 234,300 acre-ft, Mar. 10 and 11, 1965, elevation, 5,906.36 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,029,200 acre-ft, June 22, elevation, 6,032.04 ft; minimum contents, 704,600 acre-ft, Feb. 16-18, elevation, 5,995.66 ft.

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

Elevation	Contents	Elevation	Contents	Elevation	Contents	Elevation	Contents
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 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	733,100	710,900	713,000	710,100	706,800	710,900	786,200	872,100	986,300	1,028,100	991,300	929,300
2	732,300	710,500	712,800	710,300	706,800	710,900	789,000	875,300	988,000	1,027,300	989,900	927,100
3	731,400	710,900	712,800	710,300	706,700	711,000	794,100	877,700	990,400	1,026,600	988,900	925,400
4	730,800	710,400	712,600	710,300	706,700	711,200	801,700	881,000	993,400	1,026,000	987,400	924,800
5	730,000	711,200	712,600	710,100	706,700	711,300	807,100	885,000	997,000	1,025,000	985,900	925,400
6	729,000	711,200	712,700	709,800	706,400	711,300	811,400	889,300	1,000,200	1,024,000	984,300	925,100
7	728,100	711,300	712,800	709,600	706,000	711,700	815,000	894,700	1,004,400	1,022,500	982,800	924,100
8	727,400	711,300	712,800	709,600	706,000	712,600	819,200	900,900	1,008,800	1,021,000	981,600	922,600
9	726,600	711,300	712,800	709,400	706,000	713,800	821,600	906,700	1,012,700	1,019,500	979,900	921,400
10	725,900	711,400	712,700	709,400	705,800	715,300	825,300	912,200	1,016,200	1,018,000	977,800	920,200
11	725,200	711,600	712,600	709,300	705,500	716,900	828,900	917,500	1,018,600	1,016,500	975,300	919,300
12	724,400	711,900	712,300	709,100	705,300	719,000	831,900	921,800	1,020,200	1,015,000	973,200	918,500
13	723,700	712,300	712,200	708,900	705,100	721,600	834,400	925,100	1,021,400	1,013,800	970,600	916,700
14	723,100	712,900	712,000	708,900	705,000	723,900	836,800	927,900	1,023,200	1,012,000	968,300	914,700
15	722,300	713,200	711,900	708,900	704,800	726,300	838,300	930,300	1,024,300	1,010,200	965,900	912,800
16	721,700	713,700	711,600	708,400	704,600	728,500	840,400	933,300	1,025,500	1,008,600	964,200	911,100
17	720,800	713,700	711,400	708,500	704,600	730,700	842,400	936,600	1,026,700	1,007,100	962,200	909,700
18	720,200	714,100	711,200	708,500	704,600	733,300	844,800	939,700	1,027,500	1,005,600	960,200	908,500
19	719,400	713,900	710,900	708,500	705,300	736,300	848,600	943,700	1,028,100	1,004,100	957,500	912,500
20	718,700	713,900	710,900	708,500	706,000	739,900	851,000	947,900	1,028,700	1,002,900	956,000	921,900
21	717,300	713,800	711,200	708,700	707,000	744,000	855,500	951,400	1,029,000	1,001,400	953,300	925,800
22	716,600	713,700	711,200	708,400	707,400	745,900	856,900	956,700	1,029,200	999,900	950,800	928,000
23	715,800	713,700	711,200	708,400	708,100	753,500	858,300	962,100	1,028,900	998,400	948,100	929,400
24	715,200	713,500	711,200	708,200	708,800	758,400	859,800	965,600	1,028,600	998,000	946,700	930,300
25	714,800	713,600	711,200	707,800	709,400	763,100	861,200	967,400	1,028,600	997,200	944,400	931,100
26	714,100	713,300	711,000	707,700	709,800	768,100	862,400	969,500	1,028,300	996,600	942,100	931,400
27	713,500	713,300	711,000	707,500	710,500	772,800	863,200	972,400	1,028,000	996,100	939,800	931,700
28	712,900	713,100	710,800	707,400	710,900	776,500	864,700	975,100	1,028,100	995,400	937,800	932,000
29	712,300	713,000	710,400	707,200	710,800	779,000	866,600	978,500	1,028,200	994,500	936,000	933,700
30	711,800	713,000	710,300	707,000	---	781,800	869,100	981,600	1,028,400	993,500	933,900	935,100
31	711,200	---	710,100	706,800	---	783,900	---	984,400	---	992,500	931,600	---
MAX	733,100	714,100	713,000	710,300	710,900	783,900	869,100	984,400	1,029,200	1,028,100	991,300	935,100
MIN	711,200	710,400	710,100	706,800	704,600	710,900	786,200	872,100	986,300	992,500	931,600	908,500
(+)	5,996.50	5,996.73	5,996.36	5,995.94	5,996.45	6,005.51	6,015.33	6,027.58	6,031.96	6,028.39	6,022.11	6,022.48
(++)	-23,200	+1,800	-2,900	-3,300	+4,000	+73,100	+85,200	+15,300	+44,000	-35,900	-60,900	+3,500

CAL YR 2003 MAX 901,000 MIN 710,100 (++) -116,700
WTR YR 2004 MAX 1,029,200 MIN 704,600 (++) +200,700

(+) 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 ¼ NE ¼ 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, was 455,000 acre-ft. The correct value is 1,455,000 acre-ft.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 5,653 ft above National Geodetic Vertical Datum of 1929, from river-profile survey. Prior to Dec. 29, 1959, at site 5.0 mi upstream at elevation 55 ft higher. Dec. 29, 1959, to Nov. 15, 1964, at site 0.4 mi upstream at elevation 5 ft higher. Prior to Nov. 28, 1966, at elevation 2.0 ft higher.

REMARKS.--Water-discharge records good. Flow completely regulated by Navajo Reservoir (station 09355100) 7.0 mi upstream except for minor inflow from 30-mi^2 intervening drainage area. High-water diversions through Azotea tunnel (station 08284160) into Rio Grande Basin began in Mar. 1971. Diversions for irrigation of about 47,000 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	539	404	253	252	269	251	291	353	348	504	480	806
2	591	407	251	259	268	257	334	352	349	500	484	815
3	600	346	250	261	269	282	356	355	347	499	487	815
4	603	254	249	257	269	250	337	355	348	501	555	827
5	605	253	248	261	268	255	328	355	350	500	591	822
6	601	249	248	273	267	248	327	353	354	499	592	824
7	504	249	254	276	265	247	324	351	354	503	597	823
8	403	255	257	276	266	244	331	359	342	505	598	716
9	404	257	256	277	264	242	331	361	342	502	627	608
10	407	258	253	279	264	239	331	357	344	493	657	607
11	410	258	252	276	264	235	339	355	340	490	696	603
12	410	262	252	276	264	236	334	348	341	489	703	600
13	410	271	254	276	263	234	333	351	343	491	775	602
14	408	260	256	276	261	233	328	352	343	559	807	603
15	408	260	256	277	260	232	327	354	339	611	805	598
16	409	260	255	276	260	228	328	354	342	630	808	597
17	410	261	254	276	260	230	328	353	342	630	808	593
18	408	263	255	276	259	231	328	353	344	628	806	595
19	407	263	254	276	256	231	337	351	344	634	803	650
20	406	262	246	280	255	232	353	350	345	633	801	603
21	406	261	247	276	254	230	350	349	345	633	796	552
22	406	254	249	273	252	231	348	347	351	612	797	489
23	406	249	246	274	252	230	349	350	354	603	803	489
24	405	248	246	274	255	231	349	352	358	599	805	488
25	403	253	249	274	251	227	349	352	360	597	807	489
26	401	253	252	272	251	224	351	353	361	540	811	491
27	401	252	250	270	249	225	356	353	364	491	812	485
28	402	253	248	269	256	226	360	353	367	489	805	438
29	402	255	248	268	251	227	356	351	470	489	806	395
30	403	253	251	268	---	229	355	352	512	484	806	390
31	402	---	252	269	---	227	---	351	---	483	803	---
TOTAL	13,780	8,083	7,791	8,423	7,542	7,344	10,148	10,935	10,743	16,821	22,331	18,413
MEAN	445	269	251	272	260	237	338	353	358	543	720	614
MAX	605	407	257	280	269	282	360	361	512	634	812	827
MIN	401	248	246	252	249	224	291	347	339	483	480	390
AC-FT	27,330	16,030	15,450	16,710	14,960	14,570	20,130	21,690	21,310	33,360	44,290	36,520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2004, BY WATER YEAR (WY)

MEAN	834	835	936	981	985	1,060	1,292	1,701	1,816	1,178	979	928
MAX	2,131	3,018	2,886	2,768	2,382	4,216	4,768	4,962	5,169	5,126	3,508	3,241
(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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1963 - 2004	
ANNUAL TOTAL	160,255		142,354			
ANNUAL MEAN	439		389		a1,127	
HIGHEST ANNUAL MEAN					2,686	1987
LOWEST ANNUAL MEAN					280	1963
HIGHEST DAILY MEAN	1,060	Jul 16	827	Sep 4	6,420	Jun 21, 1965
LOWEST DAILY MEAN	246	Dec 20	224	Mar 26	30	Mar 12, 1964
ANNUAL SEVEN-DAY MINIMUM	248	Dec 20	226	Mar 25	108	Jan 10, 1963
MAXIMUM PEAK FLOW			1,010	Sep 19	b18,900	Jul 27, 1957
MAXIMUM PEAK STAGE			3.86	Sep 19	c11.00	Jul 27, 1957
INSTANTANEOUS LOW FLOW			218	Mar 26	8.0	Feb 28, 1963
ANNUAL RUNOFF (AC-FT)	317,900		282,400		816,600	
10 PERCENT EXCEEDS	804		629		2,520	
50 PERCENT EXCEEDS	352		347		634	
90 PERCENT EXCEEDS	254		249		370	

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.

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 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, NTU (00076)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
DEC													
09...	1330	256	--	621	12.4	123	8.9	314	4.0	6.0	120	37.3	6.75
MAR													
10...	1245	236	3.3	620	12.0	125	8.6	319	22.5	8.0	120	38.2	7.02
JUN													
29...	1500	513	3.6	623	10.2	114	8.4	323	25.0	11.0	110	35.1	6.18
AUG													
10...	1600	668	--	624	12.4	144	8.8	318	30.0	13.0	110	35.8	6.19

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)
DEC													
09...	2.16	.7	18.5	94	111	2	3.90	.2	9.6	64.1	200	.30	.50
MAR													
10...	2.13	.8	19.6	91	108	1	4.06	.2	9.6	62.5	198	--	--
JUN													
29...	2.08	.7	18.0	91	107	2	4.05	.2	9.9	59.9	190	--	--
AUG													
10...	2.09	.7	17.0	88	101	3	3.85	.2	10.0	60.3	188	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)
DEC													
09...	.01	.04	.16	<.010	<.01	<.02	.04	E8	<1	2	E.11	<2	87
MAR													
10...	--	--	--	--	--	--	--	<1	<1	--	--	--	--
JUN													
29...	--	--	--	--	--	--	--	<1	<1	--	--	--	--
AUG													
10...	--	--	--	--	--	--	--	E7	E19	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recoverable, ug/L (71900)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)
DEC													
09...	<.06	22	<.04	<.8	.093	1.4	E5	<.08	6.7	<.02	1.6	.51	<3
MAR													
10...	--	23	--	--	--	--	E4	--	--	<.02	--	--	--
JUN													
29...	--	24	--	--	--	--	<6	--	--	--	--	--	--
AUG													
10...	--	26	--	--	--	--	E6	--	--	<.02	--	--	--

09355500 SAN JUAN RIVER NEAR ARCHULETA, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Selenium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
DEC						
09...	<3	<.2	.8	.64	93	21
MAR						
10...	<3	--	--	--	100	7
JUN						
29...	<3	--	--	--	90	8
AUG						
10...	<3	--	--	--	92	4

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

09363500 ANIMAS RIVER NEAR CEDAR HILL, NM

LOCATION.--Lat 37°02'17", long 107°52'25", in sec.7, T.32 N., R.9 W., La Plata County, Colorado, Hydrologic Unit 14080104, on right bank 0.8 mi downstream from Florida River, 2.5 mi upstream from Colorado-New Mexico State line, 8.5 mi north of Cedar Hill, and at mile 32.9.

DRAINAGE AREA.--1,090 mi^2, approximately.

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge only for October and November 1933, published in WSP 1313.

REVISED RECORDS.--WSP 1563: 1940 and 1946 (monthly figures only).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,960 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Sept. 14, 1937, at datum between 1.52 ft and 1.36 ft higher. Sept. 15, 1937, to Sept. 30, 1946, at datum 1.36 ft higher.

REMARKS.--Water-discharge records good except for those estimated, which are poor. Diversions for irrigation of about 20,000 acres upstream from station. During water years 1944-49, Twin Rocks Canal diverted upstream from station for irrigation, now diverted downstream. Slight regulation by Lemon Dam about 30 mi upstream on Florida River since Nov. 1963 (capacity, 40,100 acre-ft).

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred in Oct. 1911 at this location.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	368	218	243	e250	e206	228	1,010	1,290	2,050	1,060	427	181
2	360	233	252	253	e179	259	1,120	1,240	2,130	1,020	394	182
3	392	295	238	260	e192	286	1,740	1,330	2,390	990	389	178
4	387	294	220	e244	e209	337	2,020	1,680	2,640	931	373	278
5	366	282	220	e204	e216	358	2,010	2,150	2,940	851	348	584
6	339	281	228	e138	e187	e305	1,590	2,590	3,230	793	391	545
7	333	272	224	e215	e188	337	1,570	3,020	3,440	807	414	458
8	317	277	225	e206	e186	385	1,640	3,350	3,520	797	371	414
9	306	254	218	e208	e185	430	1,580	3,410	3,180	772	339	389
10	297	259	205	e202	e195	484	1,450	3,560	2,880	747	322	370
11	300	269	200	e196	e218	551	1,430	3,630	2,360	714	325	355
12	283	269	199	e187	e226	585	1,340	3,170	2,010	683	299	368
13	269	459	198	e197	e204	659	1,250	2,540	1,800	662	284	326
14	273	384	179	e206	e208	694	1,260	2,160	1,900	656	269	315
15	268	324	e178	207	e187	732	1,300	2,060	2,090	644	263	297
16	260	298	e136	221	e178	723	1,360	1,980	1,950	643	274	283
17	262	294	e142	225	199	723	1,410	2,400	1,890	659	315	274
18	258	294	e166	204	235	766	1,440	2,520	1,700	634	290	265
19	236	274	e189	180	307	845	1,380	3,050	1,630	634	298	460
20	235	271	e220	202	313	964	1,280	3,580	1,660	616	307	2,330
21	265	275	220	221	315	1,070	1,170	3,390	1,550	605	318	2,450
22	250	e269	222	207	313	1,180	1,120	3,070	1,380	573	302	1,600
23	237	e245	216	188	277	1,280	1,080	2,740	1,260	585	295	1,220
24	242	e227	188	189	336	1,260	994	2,510	1,200	806	273	1,040
25	245	233	200	e183	335	1,360	937	2,450	1,150	735	267	929
26	224	260	219	e173	305	1,450	934	2,500	1,100	647	249	840
27	205	e253	e210	e177	318	1,380	1,010	2,610	1,040	655	225	766
28	219	e235	e180	e182	396	1,220	1,220	2,850	1,010	644	215	712
29	223	e230	e154	e205	270	1,040	1,370	3,290	1,130	580	211	938
30	217	227	e205	e205	---	964	1,410	2,650	1,160	516	203	1,000
31	214	---	e262	e216	---	954	---	2,150	---	466	190	---
TOTAL	8,650	8,255	6,356	6,351	7,083	23,809	40,425	80,920	59,370	22,125	9,440	20,347
MEAN	279	275	205	205	244	768	1,348	2,610	1,979	714	305	678
MAX	392	459	262	260	396	1,450	2,020	3,630	3,520	1,060	427	2,450
MIN	205	218	136	138	178	228	934	1,240	1,010	466	190	178
AC-FT	17,160	16,370	12,610	12,600	14,050	47,230	80,180	160,500	117,800	43,880	18,720	40,360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2004, BY WATER YEAR (WY)

MEAN	464	342	270	246	259	431	1,069	2,503	2,933	1,228	629	540
MAX	2,479	1,068	555	388	467	1,043	2,192	5,686	6,145	3,710	2,372	1,922
(WY)	(1942)	(1942)	(1987)	(1973)	(1987)	(1993)	(1985)	(1941)	(1957)	(1957)	(1999)	(1970)
MIN	169	158	159	169	151	141	273	449	367	146	114	155
(WY)	(1957)	(1934)	(1957)	(1954)	(1964)	(1977)	(1977)	(1977)	(2002)	(2002)	(2002)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1934 - 2004	
ANNUAL TOTAL	201,493		293,131			
ANNUAL MEAN	552		801		918	
HIGHEST ANNUAL MEAN					1,713	1941
LOWEST ANNUAL MEAN					268	2002
HIGHEST DAILY MEAN	4,350	May 28	3,630	May 11	11,800	Jun 19, 1949
LOWEST DAILY MEAN	136	Dec 16	136	Dec 16	0.00	Nov 1, 1933
ANNUAL SEVEN-DAY MINIMUM	169	Feb 5	170	Dec 13	0.00	Nov 1, 1933
MAXIMUM PEAK FLOW			4,050	Jun 8	13,100	Jun 19, 1949
MAXIMUM PEAK STAGE			7.97	May 20	11.45	Jun 19, 1949
INSTANTANEOUS LOW FLOW			79	Dec 29	0.00	Nov 1, 1933
ANNUAL RUNOFF (AC-FT)	399,700		581,400		665,000	
10 PERCENT EXCEEDS	1,110		2,140		2,420	
50 PERCENT EXCEEDS	297		344		409	
90 PERCENT EXCEEDS	188		200		210	

e Estimated

09364010 ANIMAS RIVER BELOW AZTEC, NM

LOCATION.--Lat 36°49'06", long 108°01'30", in the SW ¼ NE ¼ NE ¼ sec.18, T.30 N., R.11 W., San Juan County, Hydrologic Unit 14080104, on right bank 500 ft downstream from the Aztec sewage plant outfall, and 1.7 mi downstream from the West Chaco Street bridge.

DRAINAGE AREA.--1,270 mi^2, approximately.

PERIOD OF RECORD.--December 2002 to current year. Previous gage at a location upstream in 1904 and 1907-15 (drainage area 1,270 mi^2).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,560 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Water-discharge records good except for those estimated, which are poor. Diversions for irrigation of about 28,000 acres upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A major flood occurred in Oct. 1911.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	223	199	246	253	751	2,980	359	153	315
2	---	---	---	207	200	238	279	700	2,960	302	149	236
3	---	---	---	210	185	217	311	657	2,680	285	260	185
4	---	---	---	212	181	217	292	670	2,320	274	189	160
5	---	---	---	217	189	247	269	678	2,070	255	142	183
6	---	---	---	211	184	239	254	568	1,770	235	100	178
7	---	---	---	208	170	235	232	488	1,490	206	73	253
8	---	---	---	215	165	238	237	449	1,350	176	67	246
9	---	---	---	216	171	244	237	404	1,330	164	95	1,430
10	---	---	---	218	169	239	237	344	1,320	144	114	2,020
11	---	---	---	228	177	260	270	303	1,260	132	102	1,440
12	---	---	---	228	203	304	349	259	1,170	121	103	1,040
13	---	---	---	206	235	320	373	370	1,050	113	263	950
14	---	---	---	196	322	306	383	583	912	107	197	917
15	---	---	---	216	258	311	512	758	825	89	367	813
16	---	---	---	215	232	319	584	1,040	860	91	288	712
17	---	---	275	208	213	440	498	1,210	792	87	267	645
18	---	---	275	206	219	411	531	1,650	696	86	289	588
19	---	---	250	203	229	352	526	1,640	661	66	260	540
20	---	---	215	192	221	314	470	1,580	717	63	207	484
21	---	---	231	199	212	311	419	1,730	700	61	167	439
22	---	---	218	212	206	308	428	2,210	623	53	149	395
23	---	---	226	214	210	289	430	2,830	634	88	142	357
24	---	---	228	217	192	284	415	2,880	612	142	163	336
25	---	---	224	214	211	320	372	2,670	553	132	194	315
26	---	---	207	210	270	354	401	2,430	480	119	216	291
27	---	---	191	190	262	367	561	2,900	456	147	210	269
28	---	---	188	189	261	355	745	3,740	435	186	219	246
29	---	---	212	200	---	334	862	3,980	407	171	270	235
30	---	---	229	197	---	293	817	3,730	376	207	306	217
31	---	---	205	194	---	260	---	3,310	---	203	336	---
TOTAL	---	---	---	6,471	5,946	9,172	12,547	47,512	34,489	4,864	6,057	16,435
MEAN	---	---	---	209	212	296	418	1,533	1,150	157	195	548
MAX	---	---	228	322	440	862	3,980	2,980	359	367	2,020	
MIN	---	---	189	165	217	232	259	376	53	67	160	
AC-FT	---	---	---	12,840	11,790	18,190	24,890	94,240	68,410	9,650	12,010	32,600

09364010 ANIMAS RIVER BELOW AZTEC, NM—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	213	211	258	259	e252	e250	845	1,070	1,670	836	262	55
2	226	232	267	284	e208	e252	922	986	1,720	766	229	59
3	297	267	269	302	217	e288	1,640	1,040	1,970	727	211	60
4	299	290	254	281	249	e331	2,000	1,290	2,270	689	202	135
5	277	289	250	246	241	e371	1,960	1,770	2,600	617	187	331
6	259	274	258	202	226	e314	1,500	2,210	2,940	535	206	439
7	254	265	260	241	217	e321	1,400	2,700	3,160	530	239	339
8	244	270	257	e256	229	e338	1,480	3,120	3,300	551	219	282
9	224	265	257	e269	209	385	1,490	3,210	3,030	516	188	242
10	219	255	239	e261	209	436	1,340	3,330	2,710	507	167	228
11	218	255	223	252	224	511	1,290	3,420	2,200	471	167	211
12	212	259	223	239	233	560	1,250	3,040	1,760	460	163	214
13	202	394	223	231	228	598	1,140	2,420	1,530	418	144	186
14	195	379	209	241	218	e663	1,110	1,850	1,560	416	138	167
15	198	310	224	249	222	e679	1,170	1,780	1,800	389	129	162
16	195	279	233	261	211	e686	1,200	1,570	1,710	390	132	155
17	199	280	218	265	206	e662	1,250	1,970	1,620	405	153	158
18	197	274	238	e259	238	e690	1,280	2,170	1,450	407	138	148
19	192	267	225	e235	277	e757	1,230	2,630	1,320	455	148	376
20	177	259	254	e238	324	e856	1,140	3,250	1,350	439	164	1,690
21	193	264	257	e255	317	e949	1,030	3,170	1,270	447	174	2,750
22	199	267	258	249	310	e1,050	985	2,810	1,120	391	163	e1,600
23	192	260	246	227	302	1,150	938	2,490	973	364	148	e1,160
24	190	258	240	215	e327	1,150	852	2,210	894	499	135	e951
25	198	259	237	231	341	e1,180	776	2,110	849	577	132	e856
26	209	275	252	230	318	e1,300	770	2,160	812	486	121	e785
27	192	280	252	224	323	1,270	795	2,260	757	440	102	e704
28	190	264	250	231	406	e1,130	953	2,500	718	488	91	e661
29	187	259	227	227	331	e984	1,100	2,970	800	420	85	e924
30	181	256	216	247	---	e884	1,170	2,520	920	352	87	e983
31	181	---	231	246	---	840	---	1,870	---	302	72	---
TOTAL	6,609	8,216	7,505	7,653	7,613	21,835	36,006	71,896	50,783	15,290	4,896	17,011
MEAN	213	274	242	247	263	704	1,200	2,319	1,693	493	158	567
MAX	299	394	269	302	406	1,300	2,000	3,420	3,300	836	262	2,750
MIN	177	211	209	202	206	250	770	986	718	302	72	55
AC-FT	13,110	16,300	14,890	15,180	15,100	43,310	71,420	142,600	100,700	30,330	9,710	33,740

CAL YR	2003	TOTAL	165,823	MEAN	454	MAX	3980	MIN 53	AC-FT 328900
WTR YR	2004	TOTAL	255,313	MEAN	698	MAX	3420	MIN 55	AC-FT 506400

e Estimated

09364500 ANIMAS RIVER AT FARMINGTON, NM

LOCATION.--Lat 36°43'17", long 108°12'05", in SW ¼ SW ¼ sec.15, T.29 N., R.13 W., San Juan County, Hydrologic Unit 14080104, in Boyd City Park, on right bank 900 ft upstream from bridge on Miller Ave., 0.4 mi downstream from bridge on U.S. Highway 64 in Farmington, and 1.5 mi upstream from mouth.

DRAINAGE AREA.--1,360 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1904 to October 1905 (published as "near Farmington"), September 1912 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1931. WSP 1313: 1913.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,280 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 1, 1905, non-recording gage at old bridge 0.1 mi upstream at different datum. Sept. 17, 1912, to Oct. 4, 1938, water-stage recorder at site 0.8 mi downstream at lower datums (datum lowered 2.0 ft Aug. 15, 1927, and raised 0.2 ft Dec. 16, 1929). Oct. 5, 1938, to Nov. 1, 1973, at site 900 ft downstream at datum 1.74 ft lower.

REMARKS.--Water-discharge records good except for those estimated, which are 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186	208	278	240	260	300	882	1,060	1,740	e841	280	43
2	210	254	284	266	229	292	966	938	1,770	e759	252	36
3	299	279	284	287	233	320	1,650	962	1,980	e698	228	26
4	311	316	268	275	252	349	2,290	1,180	2,290	e655	208	79
5	294	322	263	241	253	412	2,210	1,730	2,590	e591	179	255
6	271	312	268	199	231	370	1,800	2,190	2,920	e489	178	450
7	255	313	270	225	221	367	1,590	2,670	3,150	457	209	345
8	263	313	266	253	237	387	1,680	3,120	3,290	477	198	292
9	238	316	260	261	211	425	1,710	3,230	3,150	448	146	232
10	222	304	237	265	222	456	1,490	3,290	2,830	443	117	208
11	229	307	225	246	235	526	1,410	3,410	2,370	406	105	198
12	217	318	226	233	235	572	1,370	3,160	1,920	400	94	208
13	202	450	228	214	236	633	1,230	2,560	1,650	371	87	195
14	194	468	213	226	234	685	1,190	1,960	1,690	370	86	166
15	207	367	214	236	241	713	1,210	1,850	1,980	356	66	163
16	192	336	234	239	225	721	1,210	1,550	1,940	350	66	165
17	186	324	230	240	220	701	1,280	1,940	1,800	363	95	160
18	200	317	239	235	244	719	1,350	2,210	1,640	372	120	155
19	181	309	215	217	267	779	1,300	2,550	1,430	412	107	363
20	167	295	245	210	343	874	1,170	3,160	1,450	408	135	1,250
21	159	295	262	233	344	998	1,040	3,230	1,400	395	152	3,210
22	164	298	256	240	349	1,120	991	2,900	1,220	366	152	1,950
23	167	288	247	224	337	1,240	950	2,590	1,030	329	132	1,360
24	155	280	238	208	355	1,260	846	2,310	927	427	115	1,040
25	183	287	221	220	382	1,270	752	2,180	e888	551	99	885
26	204	295	238	220	362	1,410	711	2,220	e839	454	95	774
27	213	295	244	216	345	1,410	710	2,300	e774	399	79	707
28	211	281	228	236	439	1,260	836	2,490	e743	457	59	641
29	209	274	203	230	402	1,070	1,040	2,930	e782	407	59	910
30	178	277	205	244	---	908	1,140	2,710	e941	358	59	1,060
31	188	---	219	261	---	870	---	2,030	---	312	47	---
TOTAL	6,555	9,298	7,508	7,340	8,144	23,417	38,004	72,610	53,124	14,121	4,004	17,526
MEAN	211	310	242	237	281	755	1,267	2,342	1,771	456	129	584
MAX	311	468	284	287	439	1,410	2,290	3,410	3,290	841	280	3,210
MIN	155	208	203	199	211	292	710	938	743	312	47	26
AC-FT	13,000	18,440	14,890	14,560	16,150	46,450	75,380	144,000	105,400	28,010	7,940	34,760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2004, BY WATER YEAR (WY)

MEAN	426	353	296	274	296	453	974	2,372	2,904	1,093	502	450
MAX	2,726	1,140	609	554	675	1,242	2,489	6,126	6,930	3,609	2,581	2,182
(WY)	(1942)	(1942)	(1987)	(1920)	(1920)	(1997)	(1979)	(1920)	(1920)	(1957)	(1999)	(1925)
MIN	87.0	152	174	163	162	112	54.1	195	171	14.1	4.69	10.6
(WY)	(1957)	(1935)	(1964)	(1996)	(1964)	(1977)	(1977)	(1977)	(2002)	(2002)	(2002)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1914 - 2004	
ANNUAL TOTAL	165,953.6		261,651			
ANNUAL MEAN	455		715		867	
HIGHEST ANNUAL MEAN					1,734	1920
LOWEST ANNUAL MEAN					177	2002
HIGHEST DAILY MEAN	4,100	May 29	3,410	May 11	11,000	Jun 19, 1949
LOWEST DAILY MEAN	8.1	Jul 23	26	Sep 3	0.00	Aug 8, 1996
ANNUAL SEVEN-DAY MINIMUM	18	Jul 17	47	Aug 28	0.00	Aug 13, 1996
MAXIMUM PEAK FLOW			4,050	Sep 21	a25,000	Jun 29, 1927
MAXIMUM PEAK STAGE			7.49	Sep 21	9.32	Jun 18, 1995
INSTANTANEOUS LOW FLOW			14	Sep 2	0.00	Aug 8, 1996
ANNUAL RUNOFF (AC-FT)	329,200		519,000		628,100	
10 PERCENT EXCEEDS	929		1,950		2,300	
50 PERCENT EXCEEDS	248		316		370	
90 PERCENT EXCEEDS	158		167		183	

a Site and datum then in use, from rating curve extended above 10,000 ft^3/s.
e Estimated

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 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, NTU (00076)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
DEC													
11...	0900	233	3.1	630	11.6	99	8.4	722	1.0	1.0	320	104	15.6
MAR													
12...	0810	586	240	630	9.6	98	8.4	509	7.5	8.0	220	70.1	10.7
JUL													
01...	0800	879	3.1	631	8.2	101	8.1	401	16.0	16.0	160	52.4	6.84
AUG													
11...	0840	102	--	632	8.2	107	8.3	719	20.0	19.0	270	85.6	14.7

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)
DEC													
11...	3.23	.9	37.5	151	182	1	25.8	.5	6.6	192		<.20	<.20
MAR													
12...	2.81	.6	22.0	121	145	1	13.3	.3	7.0	115	314	--	--
JUL													
01...	1.74	.5	15.0	87	104	--	10.4	.3	3.4	85.2	226	--	--
AUG													
11...	2.97	1	38.6	133	159	--	25.7	.4	2.8	189	438	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)
DEC													
11...	<.01	.04	.10	<.010	<.01	<.02	.02	E52	E22	3	<.20	<2	72
MAR													
12...	--	--	--	--	--	--	--	E3,400	930	--	--	--	--
JUL													
01...	--	--	--	--	--	--	--	E53	100	--	--	--	--
AUG													
11...	--	--	--	--	--	--	--	71	220	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recoverable, ug/L (71900)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)
DEC													
11...	<.06	71	E.02	<.8	.294	1.1	E4	<.08	63.8	<.02	1.7	1.58	<3
MAR													
12...	--	41	--	--	--	--	E5	--	--	.02	--	--	--
JUL													
01...	--	35	--	--	--	--	14	--	--	--	--	--	--
AUG													
11...	--	83	--	--	--	--	E4	--	--	<.02	--	--	--

09364500 ANIMAS RIVER AT FARMINGTON, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Selenium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
DEC						
11...	<3	<.2	4.0	2.27	67	31
MAR						
12...	<3	--	--	--	69	987
JUL						
01...	<3	--	--	--	66	34
AUG						
11...	<3	--	--	--	63	19

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	Atrazine, water, fltrd, ug/L (39632)	Azinphosmethyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Butylate, water, fltrd, ug/L (04028)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbofuran, water, fltrd 0.7u GF ug/L (82674)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)
MAR													
12...	0810	<.006	<.006	<.006	<.005	<.005	<.007	<.050	<.010	<.004	<.041	<.020	<.006
JUL													
01...	0800	<.006	<.006	<.006	<.005	<.005	<.007	<.050	<.010	<.004	<.041	<.020	<.006

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Cyanazine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon, water, fltrd, ug/L (39572)	Dieldrin, water, fltrd, ug/L (39381)	Disulfoton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethalfluralin, water, fltrd 0.7u GF ug/L (82663)	Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Desulfinyl fipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)
MAR													
12...	<.018	<.003	<.012	<.005	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016
JUL													
01...	<.018	<.003	<.012	<.005	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Fonofos water, fltrd, ug/L (04095)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Napropamide, water, fltrd 0.7u GF ug/L (82684)	p,p'-DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)	Pebulate, water, fltrd 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)
MAR													
12...	<.003	<.004	<.035	<.027	<.015	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022
JUL													
01...	<.003	<.004	<.035	<.027	<.015	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Phorate water fltrd 0.7u GF ug/L (82664)	Prometon, water, fltrd, ug/L (04037)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Simazine, water, fltrd, ug/L (04035)	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Terbacil, water, fltrd 0.7u GF ug/L (82665)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Thiobencarb water fltrd 0.7u GF ug/L (82681)	Triallate, water, fltrd 0.7u GF ug/L (82678)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)
MAR													
12...	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	<.009
JUL													
01...	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	<.009

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

09365000 SAN JUAN RIVER AT FARMINGTON, NM

LOCATION.--Lat 36°43'22", long 108°13'30", in NW ¼ SE ¼ 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.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to December 1904, January 1905 to September 1906 (gage heights and discharge measurements only), September 1912 to current year. Monthly discharge only for some periods, published in WSP 1313. Discharge records for January to December 1905, published in WSP 175, are unreliable and should not be used.

REVISED RECORDS.--WSP 1119: drainage area. WSP 1243: 1938. WSP 1313: 1905, 1914. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 5,230.37 ft above National Geodetic Vertical Datum of 1929. See WSP 1313 or 1733 for history of changes prior to Nov. 19, 1933.

REMARKS.--Records good except for those above 1,500 ft^3/s and those estimated, which are fair. Since June 1962 flow is partly controlled by operation of Navajo Reservoir (station 09355100) 50 mi upstream. Diversions upstream from station for irrigation of about 86,000 acres, 4,000 of which are irrigated by Farmers Mutual ditch, which diverts from Animas River and bypasses this station; ditch flow not included in record. At times this ditch may be supplied partly or entirely by diversion from San Juan River downstream from this station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood occurred Oct. 6, 1911. Flood of Sept. 6, 1909, reached a stage of about 12.3 ft, site and datum in use May to September 1906.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	539	582	483	498	558	583	1,150	1,310	1,850	1,060	611	697
2	650	599	488	539	523	559	1,290	1,190	1,870	986	589	695
3	956	621	546	570	550	618	2,350	1,200	2,080	958	566	709
4	827	526	567	531	575	638	3,230	1,390	2,410	931	533	756
5	815	491	557	463	555	675	2,440	1,900	2,710	872	586	825
6	794	478	565	e450	532	650	1,930	2,270	3,050	772	574	1,010
7	726	467	570	e500	510	650	1,770	2,640	3,290	739	577	926
8	624	498	586	534	542	666	2,020	2,990	3,450	762	534	878
9	532	495	555	537	503	693	2,000	3,150	3,270	736	515	677
10	496	486	513	540	521	738	1,860	3,230	2,950	741	535	629
11	505	476	495	514	544	806	1,860	3,360	2,460	696	543	607
12	482	497	507	502	533	828	1,920	3,140	1,980	691	571	645
13	476	782	510	476	525	886	1,670	2,590	1,720	668	570	598
14	480	675	499	493	531	938	1,600	2,060	1,680	675	625	578
15	469	561	495	521	546	966	1,620	1,920	1,920	722	640	596
16	526	521	494	529	526	977	1,610	1,680	1,910	710	648	615
17	510	507	e496	516	526	965	1,660	2,040	1,790	703	684	622
18	523	502	e500	516	549	982	1,690	2,260	1,660	691	678	625
19	515	491	473	494	567	1,050	1,660	2,590	1,480	739	687	1,190
20	496	469	507	491	671	1,130	1,510	3,160	1,500	738	705	1,750
21	464	475	544	518	672	1,250	1,320	3,220	1,450	728	702	3,090
22	490	487	554	514	663	1,310	1,270	2,920	1,290	700	704	2,200
23	484	458	508	497	666	1,350	1,230	2,630	1,160	697	694	1,670
24	481	e466	496	484	762	1,360	1,150	2,370	1,040	711	686	1,380
25	497	514	482	505	716	1,370	1,060	2,240	1,010	786	678	1,290
26	537	498	499	475	677	1,440	1,020	2,270	983	730	678	1,210
27	525	486	491	e506	641	1,450	996	2,370	922	648	670	1,090
28	523	473	447	511	762	1,350	1,090	2,580	883	695	671	1,030
29	505	480	e472	520	703	1,230	1,280	3,060	941	671	730	1,560
30	499	486	e465	543	---	1,150	1,390	2,800	1,170	685	714	1,320
31	491	---	465	567	---	1,120	---	2,120	---	639	687	---
TOTAL	17,437	15,547	15,829	15,854	17,149	30,378	48,646	74,650	55,879	23,280	19,585	31,468
MEAN	562	518	511	511	591	980	1,622	2,408	1,863	751	632	1,049
MAX	956	782	586	570	762	1,450	3,230	3,360	3,450	1,060	730	3,090
MIN	464	458	447	450	503	559	996	1,190	883	639	515	578
AC-FT	34,590	30,840	31,400	31,450	34,020	60,250	96,490	148,100	110,800	46,180	38,850	62,420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2004, BY WATER YEAR (WY)

MEAN	1,185	994	974	992	1,114	1,529	2,890	4,885	5,277	2,151	1,307	1,182
MAX	7,271	3,549	3,381	3,271	3,032	5,304	9,133	18,830	14,990	8,639	6,044	4,978
(WY)	(1942)	(1987)	(1966)	(1986)	(1987)	(1993)	(1932)	(1941)	(1941)	(1957)	(1999)	(1999)
MIN	286	315	362	329	374	349	391	576	517	192	166	170
(WY)	(1957)	(1951)	(1957)	(1963)	(1964)	(1964)	(1964)	(1977)	(1934)	(1934)	(1939)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1931 - 2004	
ANNUAL TOTAL	306,513		365,702			
ANNUAL MEAN	840		999		2,041	
HIGHEST ANNUAL MEAN					5,054	1941
LOWEST ANNUAL MEAN					728	1963
HIGHEST DAILY MEAN	7,090	Sep 10	3,450	Jun 8	30,000	May 14, 1941
LOWEST DAILY MEAN	445	May 12	447	Dec 28	27	Aug 22, 1939
ANNUAL SEVEN-DAY MINIMUM	474	Dec 25	474	Dec 25	37	Jul 1, 1934
MAXIMUM PEAK FLOW			4,020	Apr 3	a68,000	Jun 29, 1927
MAXIMUM PEAK STAGE			4.03	Apr 3	b10.20	Jun 29, 1927
INSTANTANEOUS LOW FLOW			396	Jan 6	14	Aug 22, 1939
ANNUAL RUNOFF (AC-FT)	608,000		725,400		1,479,000	
10 PERCENT EXCEEDS	1,260		2,070		4,930	
50 PERCENT EXCEEDS	654		678		1,070	
90 PERCENT EXCEEDS	493		491		460	

a From rating curve extended above 37,000 ft^3/s.
b Site and datum then in use.
e Estimated

09365000 SAN JUAN RIVER AT FARMINGTON, NM—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962-82, 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, NTU (00076)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
DEC													
11...	1300	486	19	625	11.6	105	8.7	650	8.0	3.0	270	84.5	13.2
MAR													
11...	1430	827	2,500	632	9.2	105	8.2	579	22.0	12.5	220	69.0	10.6
JUL													
01...	1205	1,090	10	633	8.2	107	8.3	425	28.0	19.0	160	52.2	7.24
AUG													
11...	1220	526	--	633	8.2	106	8.3	425	32.0	18.5	140	45.9	7.27

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)
DEC													
11...	3.08	1	44.6	132	159	1	17.6	.4	8.1	180	432	.30	.50
MAR													
11...	2.91	1	37.1	120	144	--	13.6	.4	7.4	147	359	--	--
JUL													
01...	2.03	.7	21.5	93	111	--	9.61	.3	5.3	94.6	247	--	--
AUG													
11...	2.38	.9	25.0	99	118	--	7.27	.3	9.1	94.7	250	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)
DEC													
11...	.16	.21	.37	.010	.03	.06	.11	E10	21	3	<.20	<2	66
MAR													
11...	--	--	--	--	--	--	--	E200	E180	--	--	--	--
JUL													
01...	--	--	--	--	--	--	--	E170	E190	--	--	--	--
AUG													
11...	--	--	--	--	--	--	--	180	93	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recoverable, ug/L (71900)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)
DEC													
11...	<.06	59	<.04	<.8	.198	1.6	E6	<.08	30.8	<.02	1.9	.46	<3
MAR													
11...	--	46	--	--	--	--	6	--	--	.07	--	--	--
JUL													
01...	--	37	--	--	--	--	9	--	--	--	--	--	--
AUG													
11...	--	38	--	--	--	--	E5	--	--	<.02	--	--	--

09365000 SAN JUAN RIVER AT FARMINGTON, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Selenium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
DEC						
11...	<3	<.2	2.3	1.88	15	364
MAR						
11...	<3	--	--	--	80	2,540
JUL						
01...	<3	--	--	--	22	624
AUG						
11...	<3	--	--	--	14	722

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

09366500 LA PLATA RIVER AT COLORADO-NEW MEXICO STATE LINE

LOCATION.--Lat 36°59'59", long 108°11'17", in NW ¼ SE ¼ 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 NGVD of 1929. 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	1.4	3.2	3.4	3.3	6.3	48	46	62	12	0.00	0.00
2	2.6	3.0	2.8	3.6	2.7	6.4	48	35	49	16	0.00	0.00
3	5.1	4.3	2.0	3.4	3.8	6.4	89	33	51	15	0.37	0.01
4	6.3	5.2	1.1	2.3	4.0	6.4	147	52	67	13	1.0	e0.80
5	5.9	5.3	e0.80	1.3	3.2	6.1	179	70	88	11	1.7	e1.0
6	4.9	5.1	0.73	2.0	2.3	5.3	130	90	91	8.3	0.74	e0.80
7	4.1	4.9	0.74	4.3	2.6	5.3	108	99	115	6.8	0.21	0.46
8	4.0	4.5	0.57	3.7	3.0	5.3	97	102	87	7.1	0.37	0.29
9	4.2	4.1	0.01	3.3	2.6	5.9	93	94	69	6.5	1.2	0.25
10	4.2	3.9	0.00	3.5	2.9	7.1	77	84	73	6.4	1.0	0.20
11	4.7	4.0	0.00	3.8	2.7	8.6	57	76	65	5.8	0.92	0.12
12	4.5	4.0	0.00	3.5	2.4	9.7	58	51	50	5.1	0.61	0.03
13	3.5	7.7	0.00	2.8	2.6	12	47	50	39	5.4	0.34	0.02
14	2.5	6.0	0.00	2.7	3.2	18	41	84	37	4.4	0.33	0.01
15	2.8	4.3	0.24	3.4	3.4	22	37	62	35	5.1	0.29	0.00
16	2.5	3.9	2.3	3.4	3.1	21	34	70	36	3.6	0.45	0.00
17	2.1	4.1	4.9	3.2	3.4	20	47	75	34	6.0	0.54	0.00
18	1.5	3.8	6.1	2.9	5.7	22	50	50	34	8.8	0.46	0.00
19	1.5	3.6	6.3	2.8	7.9	22	50	78	32	6.8	1.1	1.2
20	1.4	3.6	3.9	3.0	5.4	24	44	101	33	5.0	1.4	6.4
21	1.5	3.6	3.8	2.9	5.1	23	47	88	29	3.5	1.1	39
22	1.7	3.6	3.4	2.4	5.3	25	48	86	25	4.3	0.86	24
23	1.7	3.0	1.3	2.4	5.4	24	36	103	22	7.9	0.56	18
24	1.7	3.1	0.77	2.6	7.3	21	30	73	18	13	0.34	15
25	1.8	3.6	2.4	3.2	6.8	21	25	58	15	13	0.39	12
26	1.9	3.5	2.4	1.7	6.6	29	21	53	15	11	0.28	11
27	1.8	3.1	2.0	1.9	6.6	26	21	67	18	21	0.10	10
28	1.9	3.1	1.1	2.6	12	19	31	80	16	14	0.05	8.0
29	1.9	4.3	1.9	2.8	7.4	14	50	85	25	8.3	0.06	14
30	1.5	3.3	3.7	2.9	---	27	64	62	17	1.9	0.01	23
31	1.4	---	3.3	3.8	---	42	---	75	---	0.19	0.00	---
TOTAL	89.5	120.9	61.76	91.5	132.7	510.8	1,854	2,232	1,347	256.19	16.78	185.59
MEAN	2.89	4.03	1.99	2.95	4.58	16.5	61.8	72.0	44.9	8.26	0.54	6.19
MAX	6.3	7.7	6.3	4.3	12	42	179	103	115	21	1.7	39
MIN	1.4	1.4	0.00	1.3	2.3	5.3	21	33	15	0.19	0.00	0.00
AC-FT	178	240	123	181	263	1,010	3,680	4,430	2,670	508	33	368

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2004, BY WATER YEAR (WY)

MEAN	13.3	11.7	12.0	11.7	16.6	36.4	102	106	65.2	19.4	11.9	11.3
MAX	260	99.2	53.9	38.3	53.9	139	364	506	306	99.4	65.1	126
(WY)	(1942)	(1942)	(1987)	(1942)	(1924)	(1997)	(1980)	(1941)	(1957)	(1957)	(1957)	(1927)
MIN	0.10	0.98	1.24	0.80	2.38	0.63	3.06	5.32	1.94	0.02	0.01	0.00
(WY)	(1935)	(1940)	(1978)	(1930)	(2003)	(1977)	(1977)	(1977)	(1924)	(1922)	(1922)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1921 - 2004	
ANNUAL TOTAL	4,600.13		6,898.72			
ANNUAL MEAN	12.6		18.8		34.8	
HIGHEST ANNUAL MEAN					109	1973
LOWEST ANNUAL MEAN					4.44	1977
HIGHEST DAILY MEAN	382	Sep 9	179	Apr 5	1,120	May 4, 1941
LOWEST DAILY MEAN	0.00	Jul 13	0.00	Dec 10	a0.00	Jul 3, 1922
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 13	0.01	Sep 12	0.00	Jul 3, 1922
MAXIMUM PEAK FLOW			202	Apr 5	b4,750	Aug 24, 1927
MAXIMUM PEAK STAGE			4.98	Apr 5	11.36	Aug 24, 1927
ANNUAL RUNOFF (AC-FT)	9,120		13,680		25,240	
10 PERCENT EXCEEDS	33		64		83	
50 PERCENT EXCEEDS	4.1		4.8		12	
90 PERCENT EXCEEDS	0.00		0.37		1.7	

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.

09368000 SAN JUAN RIVER AT SHIPROCK, NM

LOCATION.--Lat 36°46'53", long 108°41'23", in SE $^1/_4$ sec.25, T.30 N., R.18 W., San Juan County, Hydrologic Unit 14080105, on right bank 500 ft upstream from bridge on U.S. Highway 666 in Shiprock, 3.0 mi downstream from Chaco River, and at mile 215.0.

DRAINAGE AREA.--12,900 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January to October 1911, February 1927 to current year. Monthly or yearly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1931, 1934-38, 1951. WSP 1313: 1911, 1933. WDR NM-78-1: 1977.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,890 ft above National Geodetic Vertical Datum of 1929 (river-profile survey). Prior to Apr. 6, 1922, nonrecording gage and Apr. 7, 1922, to Oct. 25, 1933, water-stage recorder, at site 3 mi upstream at different datum. Oct. 26, 1933, to Sept. 30, 1936, water-stage recorder at datum 3.31 ft higher and Oct. 1, 1936, to Sept. 30, 1952, at datum 1.77 ft higher. Supplementary water-stage recorders at nearby sites, same datum, used at times. Water-stage recorder, at site 4 mi upstream Sept. 1994.

REMARKS.--Water-discharge records good except for those above 1,500 ft^3/s, which are fair, and for those estimated, which are poor. Since 1962 flow partly regulated by Navajo Reservoir (station 09355100). Diversions for irrigation of about 118,000 acres upstream from station. Ungaged canals bypass station on both right and left banks, though some of bypass flow is returned to river downstream from gage.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood occurred Oct. 6, 1911, and reached a stage of 22 ft, site and datum then in use.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292	574	557	462	529	645	1,270	e1,420	1,880	1,000	335	376
2	438	629	517	496	526	563	1,340	e1,460	1,860	897	310	419
3	1,260	643	528	535	468	533	2,170	e1,230	1,950	840	326	391
4	1,040	641	523	544	491	621	4,520	e1,290	2,280	777	302	534
5	932	550	520	533	532	663	4,760	1,610	2,470	753	323	885
6	1,020	534	511	524	466	684	3,000	2,150	2,910	645	332	997
7	726	523	517	539	453	655	2,190	2,700	3,190	514	332	912
8	545	543	562	597	471	663	2,360	3,060	3,640	527	393	826
9	476	572	565	570	450	693	2,570	3,370	3,450	533	326	626
10	510	557	500	581	450	730	2,180	3,460	3,070	506	285	483
11	571	546	481	558	517	753	1,860	3,560	2,730	459	286	457
12	469	540	476	549	495	e800	2,150	3,460	2,150	424	305	434
13	418	808	479	530	522	e840	2,140	2,790	1,800	381	278	439
14	409	873	479	528	481	e930	1,620	2,050	1,650	362	312	450
15	376	715	468	545	469	e940	1,580	1,810	1,910	388	363	401
16	399	660	503	568	452	e980	1,520	1,570	1,950	465	392	338
17	415	616	547	551	442	989	1,520	1,780	1,720	526	458	331
18	389	571	551	541	444	996	1,560	2,140	1,730	553	483	352
19	375	561	546	532	484	1,060	1,530	2,300	1,550	512	475	553
20	362	529	438	522	554	1,150	1,410	3,020	1,590	548	486	2,570
21	337	520	473	532	640	1,280	1,310	3,360	1,520	561	501	4,220
22	409	526	510	536	711	1,420	1,230	3,140	1,290	558	516	2,950
23	420	518	492	524	633	1,540	1,220	2,770	1,100	492	530	2,210
24	378	553	519	492	727	1,610	1,150	2,230	941	546	495	1,600
25	392	537	513	462	815	1,570	1,090	2,160	837	970	485	1,300
26	485	545	512	507	695	1,700	1,010	2,170	806	873	468	1,330
27	448	585	522	529	642	1,720	949	2,220	759	593	462	1,090
28	475	579	520	557	793	1,610	1,020	2,360	709	512	414	e1,040
29	466	580	554	556	829	1,460	1,200	2,850	690	546	443	e2,480
30	458	583	506	528	---	1,290	e1,440	2,880	951	480	470	e2,600
31	520	---	459	485	---	1,260	---	2,210	---	384	448	---
TOTAL	16,210	17,711	15,848	16,513	16,181	32,348	54,869	74,580	55,083	18,125	12,334	33,594
MEAN	523	590	511	533	558	1,043	1,829	2,406	1,836	585	398	1,120
MAX	1,260	873	565	597	829	1,720	4,760	3,560	3,640	1,000	530	4,220
MIN	292	518	438	462	442	533	949	1,230	690	362	278	331
AC-FT	32,150	35,130	31,430	32,750	32,100	64,160	108,800	147,900	109,300	35,950	24,460	66,630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2004, BY WATER YEAR (WY)

MEAN	1,233	1,080	1,042	1,048	1,180	1,581	2,882	4,727	5,158	2,123	1,326	1,222
MAX	8,370	3,997	3,420	3,169	3,314	5,099	9,275	19,790	15,540	8,869	5,731	4,298
(WY)	(1942)	(1987)	(1966)	(1966)	(1987)	(1993)	(1937)	(1941)	(1941)	(1957)	(1999)	(1999)
MIN	247	365	386	390	395	359	274	268	433	185	126	44.4
(WY)	(1957)	(1935)	(1957)	(1963)	(1964)	(1964)	(1977)	(1977)	(2002)	(1963)	(1939)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1935 - 2004	
ANNUAL TOTAL	283,711		363,396			
ANNUAL MEAN	777		993		2,051	
HIGHEST ANNUAL MEAN					5,324	1941
LOWEST ANNUAL MEAN					657	2002
HIGHEST DAILY MEAN	9,190	Sep 10	4,760	Apr 5	33,300	Oct 14, 1941
LOWEST DAILY MEAN	216	Sep 5	278	Aug 13	8.0	Aug 25, 1939
ANNUAL SEVEN-DAY MINIMUM	289	Aug 6	308	Aug 9	13	Jul 24, 1959
MAXIMUM PEAK FLOW			5,630	Apr 5	80,000	Aug 11, 1929
MAXIMUM PEAK STAGE			10.99	Apr 5	14.02	Jun 19, 1995
INSTANTANEOUS LOW FLOW			253	Aug 10	a8.0	Aug 25, 1939
ANNUAL RUNOFF (AC-FT)	562,700		720,800		1,486,000	
10 PERCENT EXCEEDS	1,190		2,210		4,890	
50 PERCENT EXCEEDS	557		561		1,090	
90 PERCENT EXCEEDS	387		409		450	

a Also occurred Aug. 26, 1939.
e Estimated

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 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, NTU (00076)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
DEC													
10...	1500	489	15	635	13.6	122	8.7	747	9.0	3.0	290	91.4	15.7
JUN													
30...	1305	1,190	6.5	642	7.6	104	8.2	527	25.5	22.0	190	61.3	10.1

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
DEC													
10...	3.09	1	55.1	154	182	2	21.0	.4	7.3	216	.40	.30	<.01
JUN													
30...	2.30	1	30.7	106	126	--	14.0	.3	3.1	128	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, M-FC 0.7u MF col/ 100 mL (31625)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)
DEC													
10...	.04	.50	<.010	<.01	.03	.07	E15	E7	8	<.20	<2	66	<.06
JUN													
30...	--	--	--	--	--	--	E50	450	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recover -able, ug/L (71900)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd ug/L (01147)
DEC													
10...	67	<.04	<.8	.221	1.7	7	E.04	14.9	<.02	2.1	.56	E1	<3
JUN													
30...	49	--	--	--	--	E5	--	--	--	--	--	--	<3

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)
DEC					
10...	<.2	1.9	2.63	51	57
JUN					
30...	--	--	--	47	218

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

09371010 SAN JUAN RIVER AT FOUR CORNERS, CO

LOCATION.--Lat 37°00'08", long 109°01'52", SE ¼ NE ¼ SW ¼ sec.21, T.32 N., R.20 W., Montezuma County, Hydrologic Unit 14080201, on right bank 0.1 mi north of New Mexico-Colorado State line, 1,300 ft upstream from bridge on U.S. Highway 160, 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 4,600 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to July 2003, at site on left bank.

REMARKS.--Water-discharge records good except for those estimated, which are fair. Flow partly regulated by Navajo Reservoir (09355100).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	387	590	578	471	479	790	e1,180	1,560	1,950	912	361	512
2	464	631	525	476	527	607	e1,220	1,440	1,740	842	309	505
3	1,800	652	512	529	473	571	1,930	1,370	1,740	773	330	492
4	1,320	680	520	552	476	582	4,290	1,370	1,980	736	317	732
5	1,010	593	506	505	494	652	5,110	1,660	2,240	716	297	1,160
6	1,040	557	503	542	493	701	3,690	2,110	2,600	662	346	1,040
7	929	543	509	530	438	678	2,360	2,500	3,070	555	327	1,110
8	780	534	525	583	445	663	2,280	3,050	3,500	496	356	948
9	636	577	580	585	456	700	2,630	3,520	3,600	519	370	835
10	638	575	538	571	419	744	2,510	3,620	3,150	525	300	606
11	773	568	497	568	472	765	2,200	3,720	2,730	494	289	546
12	583	557	477	548	474	839	2,260	3,820	2,190	449	306	497
13	512	774	484	529	516	847	2,430	3,240	1,790	407	328	490
14	483	978	489	504	474	926	1,990	2,370	1,570	399	295	511
15	523	812	485	527	464	994	1,900	1,960	e1,740	372	371	454
16	475	711	477	554	455	1,000	1,820	1,780	e1,920	455	402	402
17	514	655	546	560	434	1,020	1,790	1,650	e1,750	502	458	381
18	491	610	540	543	439	1,020	1,830	2,060	1,590	565	526	411
19	479	588	547	531	448	1,050	1,850	2,220	1,500	532	575	463
20	459	568	481	522	503	1,090	1,770	2,880	1,440	573	575	2,100
21	447	546	454	510	647	1,190	1,650	3,570	1,420	542	610	3,480
22	448	539	502	531	717	1,340	1,510	3,370	1,210	570	634	2,900
23	501	539	492	520	703	e1,360	1,500	2,830	1,050	619	650	2,060
24	480	528	501	504	727	e1,450	1,430	2,470	909	736	593	1,610
25	442	559	521	446	847	e1,420	1,330	2,200	769	701	572	1,230
26	479	561	520	480	774	e1,570	1,190	2,140	740	865	555	1,250
27	488	581	522	473	725	e1,640	1,140	2,170	752	687	531	1,100
28	520	586	523	499	719	e1,550	1,050	2,280	679	515	504	986
29	520	578	598	552	943	e1,360	1,290	2,560	630	531	483	1,500
30	507	585	576	527	---	e1,220	1,480	3,150	683	498	533	2,680
31	507	---	513	481	---	e1,160	---	2,410	---	429	531	---
TOTAL	19,635	18,355	16,041	16,253	16,181	31,499	60,610	77,050	52,632	18,177	13,634	32,991
MEAN	633	612	517	524	558	1,016	2,020	2,485	1,754	586	440	1,100
MAX	1,800	978	598	585	943	1,640	5,110	3,820	3,600	912	650	3,480
MIN	387	528	454	446	419	571	1,050	1,370	630	372	289	381
AC-FT	38,950	36,410	31,820	32,240	32,100	62,480	120,200	152,800	104,400	36,050	27,040	65,440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2004, BY WATER YEAR (WY)

MEAN	1,223	1,287	1,281	1,337	1,421	1,886	2,686	4,377	4,850	2,159	1,444	1,428
MAX	2,959	3,732	3,466	3,300	3,365	5,454	7,893	10,220	10,370	6,846	6,135	4,852
(WY)	(1987)	(1987)	(1987)	(1987)	(1987)	(1993)	(1979)	(1979)	(1979)	(1979)	(1999)	(1999)
MIN	633	612	517	524	558	663	581	713	501	330	259	467
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2002)	(2003)	(2002)	(2002)	(2000)	(1978)	(1989)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1978 - 2004	
ANNUAL TOTAL	308,749		373,058			
ANNUAL MEAN	846		1,019		2,115	
HIGHEST ANNUAL MEAN					4,180	1987
LOWEST ANNUAL MEAN					738	2002
HIGHEST DAILY MEAN	10,200	Sep 10	5,110	Apr 5	16,400	May 29, 1979
LOWEST DAILY MEAN	195	May 14	289	Aug 11	110	Aug 17, 1978
ANNUAL SEVEN-DAY MINIMUM	319	Aug 7	321	Aug 8	126	Aug 14, 1978
MAXIMUM PEAK FLOW			6,110	Apr 5	16,900	May 29, 1979
MAXIMUM PEAK STAGE			3.78	Apr 5	a6.60	Sep 11, 2002
INSTANTANEOUS LOW FLOW			257	Aug 11	110	Aug 19, 1978
ANNUAL RUNOFF (AC-FT)	612,400		740,000		1,532,000	
10 PERCENT EXCEEDS	1,390		2,230		5,120	
50 PERCENT EXCEEDS	577		589		1,240	
90 PERCENT EXCEEDS	445		454		597	

a Maximum gage height, 14.43 ft, Dec. 12, 1978 (backwater from ice).
e Estimated

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 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, NTU (00076)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
DEC													
10...	1030	557	10	645	12.2	102	8.6	820	3.0	1.0	320	97.9	18.9
MAR													
11...	0945	799	1,200	648	8.0	84	8.4	822	15.5	10.0	310	88.9	20.3
JUN													
30...	0900	683	5.5	647	7.6	99	8.0	541	19.0	20.0	190	59.7	11.0
AUG													
12...	0950	312	--	646	7.4	101	8.4	642	26.5	22.0	220	62.5	15.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Suspnd. sediment, sieve diametr percent <.063mm (70331)
DEC													
10...	3.22	2	64.6	148	178	--	24.3	.4	6.2	247		563	--
MAR													
11...	3.26	1	59.4	141	167	2	18.8	.4	7.5	252	534	571	--
JUN													
30...	2.08	1	32.8	103	123	--	13.8	.3	1.7	139	320	344	--
AUG													
12...	2.73	1	44.8	116	137	2	14.5	.4	4.1	179	392	412	76

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Suspended sediment concentration mg/L (80154)
DEC	
10...	--
MAR	
11...	--
JUN	
30...	--
AUG	
12...	33

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.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1969 to current year.

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

GAGE.--Water-stage recorder and concrete control. Concrete control raised 1.0 ft June 6, 1975. Control raised 2.35 ft June 28, 1984. Elevation of gage is 6,860 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.07	0.28	e0.11	e0.02	e0.06	e0.01	0.03	0.06	0.00	0.06	0.01	0.04
2	0.10	0.11	e0.10	e0.02	e0.03	0.91	0.06	0.06	0.00	0.04	0.19	0.04
3	0.35	0.14	e0.10	e0.04	e0.04	1.7	0.27	0.06	0.00	0.05	0.01	0.04
4	0.28	e0.08	e0.10	0.06	e0.04	5.4	49	0.06	0.00	0.06	0.04	0.07
5	0.18	e0.09	e0.10	0.04	e0.04	6.4	22	0.06	0.00	0.05	0.01	0.03
6	0.16	e0.10	e0.10	0.02	e0.03	12	7.6	0.06	0.11	0.07	0.01	0.02
7	0.19	e0.10	e0.10	e0.05	e0.04	24	2.1	0.04	0.05	0.09	0.01	0.03
8	0.20	e0.11	e0.08	e0.05	e0.06	31	8.7	0.05	0.05	0.08	0.01	0.03
9	0.24	e0.11	e0.08	e0.05	e0.05	27	13	0.06	0.07	0.08	0.01	0.04
10	0.19	e0.10	e0.08	e0.05	e0.06	44	7.8	0.06	0.07	0.07	0.03	0.03
11	0.17	e0.12	e0.08	e0.05	e0.06	45	37	0.13	0.04	0.09	0.04	0.03
12	0.18	e0.25	e0.06	e0.05	e0.06	43	51	0.07	0.03	0.04	0.04	0.02
13	0.18	e0.90	e0.06	e0.05	e0.04	5.8	20	0.02	0.03	0.04	0.04	0.03
14	0.19	e0.60	e0.06	e0.05	e0.04	2.3	3.3	0.02	0.02	0.07	0.05	0.03
15	0.20	e0.36	e0.06	e0.05	e0.05	1.5	0.96	0.02	0.03	0.08	0.05	0.05
16	0.21	e0.30	e0.04	e0.04	e0.06	1.2	0.30	0.04	0.02	0.04	0.04	0.07
17	0.21	e0.26	e0.04	e0.04	e0.08	0.90	0.16	0.07	0.02	0.02	0.05	0.04
18	0.21	e0.20	0.03	e0.04	e0.10	0.61	0.10	0.05	0.02	0.02	0.05	0.05
19	0.21	e0.18	0.03	0.38	e0.10	0.40	0.07	0.05	0.02	0.02	0.04	0.10
20	0.23	e0.16	e0.02	e0.04	e0.08	0.27	0.04	0.06	0.02	0.02	0.06	0.07
21	0.25	e0.14	0.06	e0.04	e0.08	0.19	0.04	0.06	0.03	0.02	0.08	0.05
22	0.22	e0.14	0.06	e0.04	e0.08	0.13	0.03	0.07	0.03	0.01	0.05	0.07
23	0.26	e0.13	e0.02	e0.04	e0.09	0.11	0.01	0.07	0.03	0.01	0.04	0.07
24	0.29	e0.12	e0.02	e0.04	e0.10	0.10	0.03	0.06	0.03	0.04	0.05	0.06
25	0.30	e0.13	e0.02	e0.05	e0.09	0.08	0.03	0.06	0.04	5.6	0.04	0.07
26	0.32	e0.12	0.03	e0.03	e0.10	0.06	0.03	0.06	0.04	1.1	0.04	0.07
27	0.38	e0.10	e0.02	e0.03	0.02	0.05	0.03	0.04	0.03	0.01	0.04	0.07
28	0.26	e0.11	0.04	e0.04	0.02	0.02	0.03	0.04	0.03	0.01	0.04	0.07
29	0.30	e0.10	e0.02	e0.05	0.01	0.02	0.05	0.03	0.06	0.01	0.04	0.15
30	0.31	e0.11	0.02	e0.05	---	0.03	0.06	0.01	0.07	0.01	0.04	0.10
31	0.32	---	e0.02	e0.06	---	0.02	---	0.00	---	0.01	0.04	---
TOTAL	7.16	5.75	1.76	1.66	1.71	254.21	223.83	1.60	0.99	7.92	1.29	1.64
MEAN	0.23	0.19	0.06	0.05	0.06	8.20	7.46	0.05	0.03	0.26	0.04	0.05
MAX	0.38	0.90	0.11	0.38	0.10	45	51	0.13	0.11	5.6	0.19	0.15
MIN	0.07	0.08	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.02
AC-FT	14	11	3.5	3.3	3.4	504	444	3.2	2.0	16	2.6	3.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2004, BY WATER YEAR (WY)

MEAN	0.45	0.74	0.73	1.02	5.17	32.0	28.3	2.92	0.29	0.56	1.62	0.59
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	0.03	0.02	0.02	0.05	0.06	0.11	0.04	0.03	0.03	0.02	0.04	0.03
(WY)	(1994)	(1978)	(1978)	(2004)	(2004)	(1972)	(2002)	(2001)	(1984)	(1993)	(1971)	(1983)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1970 - 2004	
ANNUAL TOTAL	583.35		509.52			
ANNUAL MEAN	1.60		1.39		6.19	
HIGHEST ANNUAL MEAN					22.4	1980
LOWEST ANNUAL MEAN					0.13	1976
HIGHEST DAILY MEAN	113	Mar 23	51	Apr 12	1,030	Mar 6, 1995
LOWEST DAILY MEAN	0.00	Feb 21	0.00	May 31	0.00	Oct 1, 1969
ANNUAL SEVEN-DAY MINIMUM	0.00	Feb 21	0.00	May 30	0.00	Oct 1, 1969
MAXIMUM PEAK FLOW			292	Jul 25	a1,850	Mar 5, 1995
MAXIMUM PEAK STAGE			7.48	Jul 25	b9.34	Mar 5, 1995
INSTANTANEOUS LOW FLOW			0.00	Nov 4	0.00	May 21, 2001
ANNUAL RUNOFF (AC-FT)	1,160		1,010		4,490	
10 PERCENT EXCEEDS	1.2		0.37		7.4	
50 PERCENT EXCEEDS	0.11		0.06		0.16	
90 PERCENT EXCEEDS	0.02		0.02		0.05	

a From rating curve extended above 470 ft^3/s, maximum gage height, 7.90 ft, Mar. 12, 1985.
b Datum then in use.
e Estimated

09386900 RIO NUTRIA NEAR RAMAH, NM—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978, 1980, 1987-93, October to August 1994, May to July 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instan-taneous dis-charge, cfs (00061)	Temper-ature, air, deg C (00020)	Mercury water, unfltrd recover-able, ug/L (71900)
MAY				
18...	1408	.06	27.0	<.02
JUL				
27...	1340	.01	24.0	<.02

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

09386950 ZUNI RIVER ABOVE BLACK ROCK RESERVOIR, NM

LOCATION.--Lat 35°06'03", long 108°45'03", in NE ¼ sec.17, T.10 N., R.18 W., McKinley County, Hydrologic Unit 15020004, on Zuni Indian Reservation, on left bank downstream from highway bridge on State Highway 36, 0.8 mi upstream from flow line of Black Rock Reservoir, 2.3 mi northeast of Black Rock, and 5.9 mi northeast of Zuni Pueblo.

DRAINAGE AREA.--848 mi^2, of which 13 mi^2 is noncontributing.

PERIOD OF RECORD.--October 1969 to current year. Prior to October 1974 published as "above Zuni Reservoir."

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 6,480 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair. Several observations of water temperature were made during the year. No flow for many days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.72	0.87	0.00	0.00	0.00	0.07	0.00	0.00
2	0.00	0.00	0.00	0.00	0.35	0.97	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.21	0.66	0.88	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.06	0.69	0.84	0.72	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.02	0.76	1.2	1.0	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.03	0.49	2.0	0.71	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.10	0.55	2.7	0.50	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.16	0.79	1.1	1.0	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.16	0.55	0.81	1.2	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.21	0.70	0.73	0.66	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.18	0.68	0.65	0.64	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.13	0.74	0.62	0.57	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.07	0.48	0.84	0.62	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.33	0.50	0.95	0.32	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.90	0.68	0.74	0.37	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.83	0.76	0.61	0.19	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.48	0.81	0.50	0.05	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.31	0.91	0.48	0.03	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.40	0.83	0.44	0.01	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.70	0.72	0.37	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.60	0.71	0.30	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.62	0.67	0.34	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.58	0.73	0.42	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.63	0.78	0.49	0.20	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.73	0.70	0.24	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.35	0.65	0.50	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.34	0.70	0.34	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.53	0.96	0.14	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.72	1.0	0.03	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.63	---	0.00	0.00	0.00	0.03	0.00	0.00	0.00
31	0.00	---	0.00	0.81	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	11.82	20.27	21.10	8.79	0.00	0.03	0.07	0.00	0.00
MEAN	0.00	0.00	0.00	0.38	0.70	0.68	0.29	0.00	0.00	0.00	0.00	0.00
MAX	0.00	0.00	0.00	0.90	1.0	2.7	1.2	0.00	0.03	0.07	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	23	40	42	17	0.00	0.06	0.1	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2004, BY WATER YEAR (WY)

MEAN	1.33	1.26	1.17	2.60	8.82	36.6	43.5	4.53	0.15	2.36	5.01	2.16
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	0.00	0.00	0.00	0.11	0.33	0.25	0.01	0.00	0.00	0.00	0.00	0.00
(WY)	(1974)	(1971)	(2004)	(1977)	(1972)	(2002)	(1972)	(1997)	(1970)	(1971)	(1986)	(1979)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1970 - 2004	
ANNUAL TOTAL	130.26		62.08			
ANNUAL MEAN	0.36		0.17		9.10	
HIGHEST ANNUAL MEAN					46.9	1973
LOWEST ANNUAL MEAN					0.17	2004
HIGHEST DAILY MEAN	17	Aug 28	2.7	Mar 7	1,530	Mar 13, 1985
LOWEST DAILY MEAN	0.00	Apr 28	0.00	Oct 1	0.00	May 22, 1970
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 28	0.00	Oct 1	0.00	May 22, 1970
MAXIMUM PEAK FLOW			6.2	Apr 24	a5,200	Aug 4, 1974
MAXIMUM PEAK STAGE			2.90	Apr 24	6.61	Aug 4, 1974
INSTANTANEOUS LOW FLOW			0.00	Oct 1	0.00	Oct 1, 1995
ANNUAL RUNOFF (AC-FT)	258		123		6,590	
10 PERCENT EXCEEDS	0.87		0.71		8.1	
50 PERCENT EXCEEDS	0.00		0.00		0.57	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

a From rating curve extended above 670 ft^3/s, on basis of slope-area measurements at gage heights 4.05 ft, 3.95 ft, and 6.61 ft.

09430500 GILA RIVER NEAR GILA, NM

LOCATION.--Lat 33°03'39", long 108°32'19", in NE ¼ NW ¼ sec.30, T.14 S., R.16 W., Grant County, Hydrologic Unit 15040001, on left bank at Hooker damsite, 1.6 mi upstream from Mogollon Creek, 7.0 mi northeast of Gila, and at mile 572.5.

DRAINAGE AREA.--1,864 mi^2.

PERIOD OF RECORD.--April to December 1914, December 1927 to current year. Monthly discharge only, December 1927 to September 1930, published in WSP 1313.

REVISED RECORDS.--WSP 1283: drainage area. WSP 1313: 1944(M), 1949(M). WDR NM-78-1: 1977.

GAGE.--Water-stage recorder with satellite telemetry. Datum of gage is 4,654.8 ft above National Geodetic Vertical Datum of 1929, from 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 Nov. 1905, Dec. 1906, and Jan. 1916.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	46	67	62	71	105	166	134	46	46	44	39
2	25	45	66	63	70	102	171	131	43	39	49	41
3	26	46	65	63	69	100	218	125	40	32	51	39
4	27	47	65	62	72	130	352	117	37	28	50	49
5	29	49	65	62	73	202	681	110	35	25	49	50
6	30	51	64	61	71	246	633	105	35	21	54	50
7	35	50	64	60	68	328	577	104	34	20	73	46
8	49	50	66	62	66	426	629	108	32	20	77	41
9	65	50	70	62	66	491	635	109	30	22	73	38
10	90	49	68	62	66	508	567	110	28	22	69	35
11	79	48	66	62	66	489	524	107	28	23	77	33
12	70	54	64	64	67	487	599	102	26	24	64	30
13	62	149	64	65	67	481	625	101	26	26	54	29
14	57	343	65	65	66	450	573	97	25	25	52	27
15	53	330	64	75	65	410	480	95	23	26	60	27
16	50	224	63	81	65	395	421	90	23	28	79	26
17	48	168	61	83	65	374	377	83	22	31	83	24
18	45	137	59	78	65	353	338	77	22	27	111	26
19	43	118	60	75	66	344	307	71	20	24	119	36
20	43	105	61	72	67	330	281	66	19	27	109	47
21	42	96	61	71	69	315	254	63	20	22	100	50
22	40	89	61	71	72	309	229	61	19	22	85	49
23	40	84	61	70	75	310	207	60	19	27	72	48
24	40	81	61	71	78	294	193	58	22	73	64	47
25	38	77	62	73	76	284	181	55	28	93	59	63
26	40	76	63	76	75	274	167	53	28	75	54	100
27	42	73	63	73	75	258	155	56	26	68	48	102
28	41	71	62	70	89	239	146	59	26	60	41	77
29	42	70	59	70	98	218	140	57	28	61	38	73
30	45	69	57	71	---	198	136	53	34	57	37	75
31	45	---	58	71	---	180	---	49	---	50	38	---
TOTAL	1,406	2,945	1,955	2,126	2,058	9,630	10,962	2,666	844	1,144	2,033	1,417
MEAN	45.4	98.2	63.1	68.6	71.0	311	365	86.0	28.1	36.9	65.6	47.2
MAX	90	343	70	83	98	508	681	134	46	93	119	102
MIN	25	45	57	60	65	100	136	49	19	20	37	24
AC-FT	2,790	5,840	3,880	4,220	4,080	19,100	21,740	5,290	1,670	2,270	4,030	2,810

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2004, BY WATER YEAR (WY)

MEAN	118	103	162	168	227	311	218	138	58.2	63.5	140	147
MAX	994	726	1,632	1,810	1,204	1,049	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	19.2	22.3	37.5	24.0
(WY)	(1957)	(1951)	(1954)	(1954)	(1954)	(1971)	(1971)	(2000)	(2002)	(1971)	(2000)	(1956)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1928 - 2004	
ANNUAL TOTAL	24,784		39,186			
ANNUAL MEAN	67.9		107		155	
HIGHEST ANNUAL MEAN					477	1979
LOWEST ANNUAL MEAN					47.8	1956
HIGHEST DAILY MEAN	343	Nov 14	681	Apr 5	23,400	Dec 28, 1984
LOWEST DAILY MEAN	15	Jul 9	19	Jun 20	12	Jun 24, 2002
ANNUAL SEVEN-DAY MINIMUM	17	Jul 5	20	Jun 17	14	Jun 21, 2002
MAXIMUM PEAK FLOW			781	Apr 5	a35,200	Dec 28, 1984
MAXIMUM PEAK STAGE			3.29	Apr 5	b13.00	Dec 28, 1984
INSTANTANEOUS LOW FLOW			19	Jul 7	12	Jun 24, 2002
ANNUAL RUNOFF (AC-FT)	49,160		77,730		112,000	
10 PERCENT EXCEEDS	123		287		307	
50 PERCENT EXCEEDS	62		64		73	
90 PERCENT EXCEEDS	26		27		39	

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 ¼ SE ¼ sec.13, T.13 S., R.18 W., Grant County, Hydrologic Unit 15040001, on right bank 0.3 mi downstream from Rain Creek, 0.8 mi downstream from Gila Wilderness boundary, 12 mi upstream from mouth, and 14 mi north of Cliff.

DRAINAGE AREA.--69 mi^2.

PERIOD OF RECORD.--March 1967 to current year.

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 5,440 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	1.1	2.9	2.1	18	29	38	19	2.6	0.24	2.1	3.0
2	0.00	1.1	2.7	2.1	16	28	59	17	2.3	0.00	11	3.1
3	e0.00	1.1	2.6	2.0	12	27	103	15	1.8	0.00	12	3.6
4	e0.00	1.2	2.6	2.0	11	39	128	15	1.5	0.00	7.7	7.4
5	e0.00	1.4	2.5	3.0	9.6	53	e146	15	1.4	0.00	5.8	14
6	e0.00	1.4	2.4	4.8	9.4	85	e158	15	1.1	0.00	4.9	11
7	e0.30	1.4	2.3	2.2	12	189	e165	15	0.79	0.00	3.8	7.4
8	e43	1.4	2.8	2.1	10	250	e180	14	0.66	0.00	4.7	5.7
9	e16	1.4	3.3	2.0	10	276	e200	13	0.56	0.00	3.9	4.7
10	e14	1.4	2.6	1.8	8.0	248	178	12	0.39	0.00	4.9	3.9
11	e12	1.8	2.5	2.3	7.9	232	180	11	0.28	0.00	5.4	3.0
12	e8.7	7.7	2.5	3.1	8.5	222	166	10	0.23	0.00	4.7	2.2
13	e5.3	29	2.3	2.7	8.1	182	172	9.6	0.07	0.00	5.4	1.8
14	e3.2	93	2.3	2.6	11	169	164	8.8	e0.00	0.00	7.1	1.5
15	e2.4	39	2.2	12	7.3	163	146	7.9	e0.00	0.00	7.7	1.2
16	2.2	24	3.8	17	7.4	149	119	7.4	0.00	0.00	16	1.0
17	2.0	17	6.3	17	9.1	131	100	6.9	0.00	0.00	16	0.74
18	1.7	12	5.8	14	14	131	82	6.4	0.00	0.00	14	1.2
19	1.5	9.3	2.9	11	15	129	66	5.9	0.00	0.00	17	6.7
20	1.4	7.4	1.9	10	15	123	55	5.5	0.00	0.00	24	26
21	1.3	6.1	2.0	10	15	129	47	5.1	0.00	0.00	11	12
22	1.1	5.3	1.9	10	14	130	42	4.7	0.00	0.00	7.6	7.7
23	1.2	5.0	1.9	11	14	111	38	4.5	0.00	0.00	5.7	5.9
24	1.2	4.6	1.9	14	14	108	33	4.3	0.00	0.00	4.7	4.8
25	1.1	4.4	1.9	17	14	97	29	4.0	0.00	0.23	4.0	4.6
26	0.89	4.1	2.0	15	15	79	27	4.3	0.00	5.6	3.1	8.2
27	0.94	3.7	1.9	15	16	69	25	5.3	0.00	5.7	2.4	7.1
28	1.1	3.2	5.5	16	35	56	25	4.5	0.00	6.1	1.9	5.9
29	1.1	3.2	8.6	17	36	48	24	3.6	0.00	4.6	1.6	7.5
30	1.1	3.1	9.6	18	---	43	22	3.3	0.97	3.3	1.2	19
31	1.1	---	8.3	20	---	39	---	3.0	---	2.2	1.3	---
TOTAL	125.83	295.8	104.7	278.8	392.3	3,764	2,917	276.0	14.65	27.97	222.6	191.84
MEAN	4.06	9.86	3.38	8.99	13.5	121	97.2	8.90	0.49	0.90	7.18	6.39
MAX	43	93	9.6	20	36	276	200	19	2.6	6.1	24	26
MIN	0.00	1.1	1.9	1.8	7.3	27	22	3.0	0.00	0.00	1.2	0.74
AC-FT	250	587	208	553	778	7,470	5,790	547	29	55	442	381

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2004, BY WATER YEAR (WY)

MEAN	23.4	18.1	40.2	32.7	52.2	69.6	52.5	25.0	3.11	7.10	16.4	15.5
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	0.14	1.07	1.03	1.14	0.94	1.33	0.90	0.00	0.00	0.00	1.02	0.34
(WY)	(1980)	(1971)	(1974)	(1971)	(2000)	(1971)	(1971)	(2002)	(1971)	(1980)	(1975)	(1987)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1967 - 2004	
ANNUAL TOTAL	4,111.76		8,611.49			
ANNUAL MEAN	11.3		23.5		29.8	
HIGHEST ANNUAL MEAN					97.0	1979
LOWEST ANNUAL MEAN					1.55	2000
HIGHEST DAILY MEAN	93	Nov 14	276	Mar 9	6,000	Dec 19, 1978
LOWEST DAILY MEAN	0.00	Jun 8	0.00	Oct 1	0.00	Jun 17, 1967
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 8	0.00	Jun 14	0.00	Jun 23, 1967
MAXIMUM PEAK FLOW			342	Mar 8	a10,800	Aug 12, 1967
MAXIMUM PEAK STAGE			3.67	Mar 8	b13.70	Aug 12, 1967
INSTANTANEOUS LOW FLOW			0.00	Oct 3	0.00	Oct 13, 1995
ANNUAL RUNOFF (AC-FT)	8,160		17,080		21,560	
10 PERCENT EXCEEDS	34		83		79	
50 PERCENT EXCEEDS	4.2		5.3		6.0	
90 PERCENT EXCEEDS	0.00		0.00		0.27	

a From rating curve extended above 220 ft^3/s, on basis of slope-area measurement of peak flow.
b From floodmarks.
e Estimated

09430815 UPPER GILA DITCH NEAR GILA, NM

LOCATION.--Lat 33°01'19", long 108°32'32", in SE ¼ SE ¼ SE ¼ sec.12, T.15 S., R.17 W., Grant County, Hydrologic Unit 15040002, on left bank 2,000 ft downstream from ditch heading, 5.5 mi northeast of Cliff, and 5.0 mi from Gila.

PERIOD OF RECORD.--October 1999 to current year (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 4,600 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e20	22	---	---	---	---	20	36	24	24	22	20
2	e21	21	---	---	---	---	21	36	24	23	21	19
3	e19	21	---	---	---	---	24	35	23	21	22	19
4	e22	22	---	---	---	---	29	35	23	17	21	20
5	e21	22	---	---	---	---	23	34	22	15	21	20
6	e20	---	---	---	---	---	23	34	22	13	22	20
7	e21	---	---	---	---	---	23	33	21	11	23	20
8	e23	---	---	---	---	---	23	33	21	11	24	19
9	25	---	---	---	---	---	23	33	20	12	23	18
10	28	---	---	---	---	---	22	33	19	12	23	17
11	28	---	---	---	---	---	22	33	19	12	23	16
12	26	---	---	---	---	---	22	33	18	13	22	15
13	26	---	---	---	---	---	22	33	17	14	21	14
14	25	---	---	---	---	---	22	32	17	13	21	13
15	24	---	---	---	---	---	21	32	17	15	21	13
16	25	---	---	---	---	---	20	32	15	15	23	12
17	24	---	---	---	---	---	19	31	14	17	23	11
18	23	---	---	---	---	---	18	30	14	15	25	12
19	22	---	---	---	---	14	28	29	13	13	27	17
20	22	---	---	---	---	19	33	29	12	19	26	21
21	21	---	---	---	---	22	31	28	12	12	26	22
22	21	---	---	---	---	23	29	28	12	11	25	22
23	21	---	---	---	---	23	27	27	12	14	24	21
24	21	---	---	---	---	24	26	27	13	24	23	21
25	20	---	---	---	---	26	25	26	16	28	23	23
26	21	---	---	---	---	25	24	26	17	26	22	27
27	21	---	---	---	---	24	22	26	16	24	22	27
28	20	---	---	---	---	23	30	27	16	23	22	25
29	21	---	---	---	---	23	36	26	17	23	21	24
30	21	---	---	---	---	22	36	26	18	26	21	25
31	21	---	---	---	---	21	---	25	---	28	21	---
TOTAL	694	---	---	---	---	---	744	948	524	544	704	573
MEAN	22.4	---	---	---	---	---	24.8	30.6	17.5	17.5	22.7	19.1
MAX	28	---	---	---	36	36	24	28	27	27		
MIN	19	---	---	---	18	25	12	11	21	11		
AC-FT	1,380	---	---	---	---	---	1,480	1,880	1,040	1,080	1,400	1,140

e Estimated

09430820 FORT WEST DITCH NEAR GILA, NM

LOCATION.--Lat 33°00'56", long 108°32'36", in NE ¼ SE ¼ NE ¼, sec.12, T.15 S., R.17 W., Grant County, Hydrologic Unit 15040002, on left bank 4.5 mi east of Gila, and 5.8 mi southeast of Cliff.

PERIOD OF RECORD.--October 1999 to current year (irrigation season only).

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 4,560 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	17	---	---	---	---	18	14	19	17	18	15
2	12	17	---	---	---	---	18	14	19	16	20	15
3	12	17	---	---	---	---	19	13	18	13	19	15
4	12	---	---	---	---	---	21	13	17	12	18	19
5	13	---	---	---	---	---	21	13	16	11	18	19
6	13	---	---	---	---	---	20	13	16	9.4	19	19
7	14	---	---	---	---	---	20	13	15	8.2	22	18
8	21	---	---	---	---	---	20	13	15	8.2	23	15
9	20	---	---	---	---	---	19	13	14	8.6	22	14
10	21	---	---	---	---	---	19	13	14	8.6	21	13
11	21	---	---	---	---	---	18	13	13	8.8	28	12
12	20	---	---	---	---	---	19	13	13	9.4	21	11
13	20	---	---	---	---	---	19	12	12	10	20	11
14	20	---	---	---	---	---	19	12	12	9.3	19	10
15	19	---	---	---	---	---	18	11	11	10	19	10
16	19	---	---	---	---	---	18	11	11	10	21	9.7
17	18	---	---	---	---	---	17	10	11	11	21	9.1
18	18	---	---	---	---	---	16	9.4	11	10	22	8.7
19	17	---	---	---	---	14	15	9.4	9.9	8.7	27	11
20	17	---	---	---	---	12	13	9.4	9.4	10	23	15
21	17	---	---	---	---	16	11	16	9.5	8.6	23	16
22	17	---	---	---	---	18	8.0	21	9.3	8.1	22	16
23	17	---	---	---	---	20	12	22	9.4	9.4	20	16
24	16	---	---	---	---	20	18	21	10	20	20	16
25	16	---	---	---	---	20	18	20	12	22	19	20
26	16	---	---	---	---	19	20	20	12	21	19	31
27	17	---	---	---	---	19	18	21	12	20	18	21
28	16	---	---	---	---	19	18	21	11	19	16	16
29	16	---	---	---	---	18	16	21	12	20	15	16
30	17	---	---	---	---	18	14	20	13	20	16	16
31	17	---	---	---	---	18	---	20	---	19	15	---
TOTAL	521	---	---	---	---	---	520.0	465.2	386.5	396.3	624	453.5
MEAN	16.8	---	---	---	---	---	17.3	15.0	12.9	12.8	20.1	15.1
MAX	21	---	---	---	21	22	19	22	28	31		
MIN	12	---	---	---	8.0	9.4	9.3	8.1	15	8.7		
AC-FT	1,030	---	---	---	---	---	1,030	923	767	786	1,240	900

09430825 GILA FARMS DITCH NEAR GILA, NM

LOCATION.--Lat 32°59'00", long 108°34'13", in SW ¼ NE ¼ NW ¼, sec. 23, T.15 S., R.17 W., Grant County, Hydrologic Unit 15040002, on left bank 0.4 mi from State Highway 153 at Dominguez farms, 1.2 mi from Gila, and 2.5 mi from Cliff.

PERIOD OF RECORD.--October 1999 to current year (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 4,550 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	15	---	---	---	---	10	8.2	6.8	6.8	13	4.5
2	8.8	18	---	---	---	---	10	8.2	5.4	6.8	17	6.4
3	8.6	18	---	---	---	---	11	8.9	3.6	6.8	21	6.3
4	7.4	---	---	---	---	---	12	10	7.7	6.8	16	6.7
5	6.7	---	---	---	---	---	12	9.9	13	6.9	15	7.0
6	6.8	---	---	---	---	---	12	9.5	14	6.7	16	7.9
7	10	---	---	---	---	---	12	9.4	9.8	6.7	21	8.8
8	13	---	---	---	---	---	12	9.4	8.9	6.6	29	6.9
9	7.5	---	---	---	---	---	12	9.2	8.6	6.6	26	3.7
10	13	---	---	---	---	---	12	11	8.8	6.3	23	1.9
11	13	---	---	---	---	---	12	12	8.4	6.2	23	3.0
12	14	---	---	---	---	---	12	11	8.5	13	21	2.1
13	14	---	---	---	---	---	12	11	8.3	12	19	6.7
14	14	---	---	---	---	---	12	11	7.3	7.6	17	4.8
15	14	---	---	---	---	---	11	11	6.8	8.2	19	3.7
16	12	---	---	---	---	---	11	11	8.3	8.5	26	2.9
17	2.6	---	---	---	---	---	11	10	7.5	9.1	29	2.6
18	2.4	---	---	---	---	---	11	9.8	7.0	9.6	18	4.6
19	2.4	---	---	---	---	3.9	10	10	6.3	9.3	3.4	13
20	2.4	---	---	---	---	4.1	10	9.3	6.1	9.1	3.4	13
21	2.4	---	---	---	---	4.1	9.8	8.5	5.7	8.5	3.5	13
22	2.4	---	---	---	---	4.1	9.6	7.6	5.6	8.7	3.5	13
23	2.4	---	---	---	---	3.8	9.4	7.2	6.0	11	3.2	12
24	11	---	---	---	---	5.5	9.2	6.7	6.7	9.9	2.0	13
25	8.6	---	---	---	---	12	9.1	6.1	7.1	21	3.5	14
26	3.4	---	---	---	---	12	8.9	6.1	7.5	27	2.7	15
27	2.9	---	---	---	---	12	8.8	6.6	7.4	26	2.1	15
28	4.1	---	---	---	---	11	8.5	6.5	6.8	25	1.8	15
29	6.6	---	---	---	---	11	8.5	6.3	6.7	25	1.8	14
30	11	---	---	---	---	11	8.5	7.9	6.2	19	2.3	14
31	12	---	---	---	---	11	---	7.7	---	14	2.2	---
TOTAL	249.4	---	---	---	---	---	317.3	277.0	226.8	354.7	404.4	254.5
MEAN	8.05	---	---	---	---	---	10.6	8.94	7.56	11.4	13.0	8.48
MAX	14	---	---	---	--	12	12	14	27	29	15	
MIN	2.4	---	---	---	--	8.5	6.1	3.6	6.2	1.8	1.9	
AC-FT	495	---	---	---	---	---	629	549	450	704	802	505

09431500 GILA RIVER NEAR REDROCK, NM

LOCATION.--Lat 32°43'37", long 108°40'30", in SW ¼ SW¼ SW ¼ sec.23, T.18 S., R.18 W., Grant County, Hydrologic Unit 15040002, on left bank 0.2 mi 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 for some periods, published in WSP 1313. Published as "near Cliff" 1904-07.

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 fair. Diversions for irrigation of about 5,000 acres upstream from station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	39	93	85	92	79	204	177	62	17	50	40
2	25	42	92	87	92	81	204	172	56	14	51	52
3	26	38	87	84	90	79	246	166	51	12	58	50
4	27	34	84	86	91	96	381	158	50	12	79	53
5	27	33	85	90	93	139	709	150	50	14	57	75
6	27	36	86	89	95	189	949	143	45	16	55	63
7	27	35	86	89	92	299	834	136	46	16	53	66
8	35	35	86	88	90	495	868	127	43	15	64	64
9	35	33	86	85	88	651	889	124	39	16	72	60
10	34	32	85	90	82	722	805	124	37	16	77	59
11	42	43	86	92	79	685	721	122	36	16	94	56
12	45	44	86	94	78	647	847	116	34	17	91	52
13	48	69	86	94	81	607	862	112	33	17	90	47
14	50	259	87	94	84	565	840	103	34	18	104	46
15	49	347	86	101	82	503	733	89	32	19	145	43
16	48	267	80	101	78	476	630	88	30	42	127	42
17	43	208	80	101	68	455	548	87	28	16	113	40
18	41	172	81	101	66	430	489	83	27	14	247	40
19	40	150	82	101	57	408	434	88	25	12	171	44
20	40	133	79	100	48	389	382	85	24	11	124	47
21	39	125	76	98	51	367	348	81	21	11	116	53
22	42	119	77	97	65	361	323	78	18	43	108	54
23	42	112	77	95	68	365	299	77	15	123	94	52
24	42	110	78	89	71	350	275	76	16	35	88	52
25	39	107	85	92	70	326	254	72	17	99	82	61
26	41	103	86	104	65	316	238	70	14	52	71	110
27	44	99	83	99	64	301	220	74	15	78	64	84
28	44	96	72	98	67	289	213	69	15	58	51	85
29	42	96	70	95	75	262	200	66	20	54	37	78
30	41	95	65	94	---	235	198	66	20	54	34	81
31	40	---	70	91	---	217	---	70	---	50	32	---
TOTAL	1,190	3,111	2,542	2,904	2,222	11,384	15,143	3,249	953	987	2,699	1,749
MEAN	38.4	104	82.0	93.7	76.6	367	505	105	31.8	31.8	87.1	58.3
MAX	50	347	93	104	95	722	949	177	62	123	247	110
MIN	25	32	65	84	48	79	198	66	14	11	32	40
AC-FT	2,360	6,170	5,040	5,760	4,410	22,580	30,040	6,440	1,890	1,960	5,350	3,470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2004, BY WATER YEAR (WY)

MEAN	196	162	311	295	380	467	302	181	57.9	73.3	203	223
MAX	1,768	912	2,200	2,987	1,692	1,438	1,155	1,068	278	287	1,182	1,315
(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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1963 - 2004	
ANNUAL TOTAL	27,763.4		48,133			
ANNUAL MEAN	76.1		132		237	
HIGHEST ANNUAL MEAN					664	1993
LOWEST ANNUAL MEAN					57.0	2000
HIGHEST DAILY MEAN	347	Nov 15	949	Apr 6	34,000	Dec 19, 1978
LOWEST DAILY MEAN	8.7	Jul 16	11	Jul 20	3.6	Jul 20, 1978
ANNUAL SEVEN-DAY MINIMUM	11	Aug 9	14	Jul 2	4.9	Jul 16, 1971
MAXIMUM PEAK FLOW			1,260	Aug 18	a48,800	Dec 19, 1978
MAXIMUM PEAK STAGE			8.21	Aug 18	b29.80	Dec 19, 1978
INSTANTANEOUS LOW FLOW			9.8	Jul 5	2.2	Aug 5, 1947
ANNUAL RUNOFF (AC-FT)	55,070		95,470		171,800	
10 PERCENT EXCEEDS	167		332		511	
50 PERCENT EXCEEDS	62		80		94	
90 PERCENT EXCEEDS	17		27		32	

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 ft from floodmarks.

09431500 GILA RIVER NEAR REDROCK, NM—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968-97, 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
JAN													
14...	0940	95	659	10.0	100	8.4	406	9.5	9.0	150	44.1	8.70	1.93
MAR													
17...	0840	453	658	9.2	98	8.1	209	15.5	11.5	71	21.1	4.53	1.57
MAY													
19...	1450	106	657	8.4	111	8.4	373	33.0	21.5	130	40.1	7.41	1.98
JUL													
29...	0910	57	662	7.2	93	8.4	431	26.0	21.0	150	47.2	8.10	3.17

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)
JAN													
14...	1	34.6	142	169	2	16.6	2.2	34.4	34.5	264	<.20	.30	<.01
MAR													
17...	.9	17.8	72	87	--	7.03	1.3	29.4	18.5	144	--	--	--
MAY													
19...	1	30.6	137	160	3	13.0	2.0	32.0	27.2	236	--	--	--
JUL													
29...	1	32.3	159	190	--	15.8	2.0	38.7	34.1	275	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)
JAN													
14...	.02	.43	<.010	.02	.03	.07	E1	<.20	E1	18	<.06	43	<.04
MAR													
17...	--	--	--	--	--	--	--	--	--	--	--	20	--
MAY													
19...	--	--	--	--	--	--	--	--	--	--	--	45	--
JUL													
29...	--	--	--	--	--	--	--	--	--	--	--	49	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recoverable, ug/L (71900)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)
JAN													
14...	<.8	.137	.7	<6	<.08	4.7	<.02	2.2	.90	<3	<3	<.2	<.6
MAR													
17...	--	--	--	12	--	--	<.02	--	--	--	<3	--	--
MAY													
19...	--	--	--	<6	--	--	<.02	--	--	--	<3	--	--
JUL													
29...	--	--	--	<6	--	--	.02	--	--	--	<3	--	--

09431500 GILA RIVER NEAR REDROCK, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Uranium natural water, fltrd, ug/L (22703)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)
JAN			
14...	1.89	98	44
MAR			
17...	--	7	2,140
MAY			
19...	--	83	30
JUL			
29...	--	96	676

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

09431503 GRANDPA HARPER DITCH NEAR REDROCK, NM

LOCATION.--Lat 32°43'36", long 108°41'15", in SE ¼ NW ¼ NW ¼ sec.22, T.18 S., R.18 W., Grant County, Hydrologic Unit 15040002, on left bank 2 mi northeast of Redrock, 24 mi north of Lordsburg, and 27 mi west of Silver City.

PERIOD OF RECORD.--October 1999 to current year (irrigation season only).

GAGE.--Water-stage recorder with Parshall flume. Elevation of gage is 4,120 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.28	2.9	---	---	---	---	3.9	4.3	0.25	0.13	0.00	e0.00
2	e0.28	7.8	---	---	---	---	4.0	4.3	0.25	0.15	0.00	e0.00
3	e0.25	12	---	---	---	---	1.7	4.2	0.27	0.20	0.01	e0.00
4	e0.25	---	---	---	---	---	0.06	3.8	2.4	0.22	0.02	e0.00
5	e0.20	---	---	---	---	---	0.02	3.7	5.2	11	0.00	e0.00
6	e0.12	---	---	---	---	---	0.02	2.7	5.1	17	0.00	e0.00
7	0.17	---	---	---	---	---	0.01	0.14	5.2	16	0.00	e0.00
8	0.23	---	---	---	---	---	0.00	0.11	5.0	16	0.00	e0.00
9	0.34	---	---	---	---	---	0.00	0.07	4.7	16	0.00	e0.00
10	0.43	---	---	---	---	---	0.00	0.08	4.5	16	0.26	e0.00
11	0.58	---	---	---	---	---	0.00	2.2	4.4	10	3.5	e0.00
12	0.71	---	---	---	---	---	0.00	4.1	4.6	0.52	15	1.7
13	0.82	---	---	---	---	---	0.00	1.6	1.9	0.52	9.9	5.2
14	0.84	---	---	---	---	---	0.00	0.11	0.20	0.49	0.93	7.5
15	0.93	---	---	---	---	---	0.00	0.14	0.25	0.38	1.1	1.6
16	1.1	---	---	---	---	0.20	0.00	0.14	0.40	0.08	1.1	1.7
17	1.2	---	---	---	---	0.25	0.01	0.15	0.47	0.00	0.78	e1.0
18	1.2	---	---	---	---	0.27	0.01	0.13	0.56	0.00	0.68	e0.80
19	1.3	---	---	---	---	0.21	0.00	0.09	0.54	0.02	0.78	e0.50
20	1.5	---	---	---	---	0.14	0.00	0.08	0.66	0.14	e0.80	e0.20
21	1.6	---	---	---	---	0.15	0.00	0.19	0.58	0.17	e0.75	e0.00
22	1.6	---	---	---	---	0.19	0.00	0.11	0.81	0.20	e0.70	e0.00
23	1.7	---	---	---	---	0.14	0.00	0.09	0.87	0.08	e0.85	e0.00
24	1.8	---	---	---	---	0.21	0.00	2.1	4.8	0.00	e0.80	e0.00
25	2.0	---	---	---	---	0.21	0.00	3.7	8.2	0.00	e0.75	e0.00
26	2.1	---	---	---	---	0.18	0.00	1.7	1.4	0.00	e0.80	e0.00
27	2.2	---	---	---	---	0.14	0.00	0.27	1.2	0.00	e0.80	e0.20
28	2.4	---	---	---	---	2.7	0.00	0.25	1.1	0.00	e0.85	0.37
29	2.5	---	---	---	---	4.9	2.6	0.27	1.0	0.00	e0.90	0.43
30	2.7	---	---	---	---	4.5	4.5	0.28	1.2	0.00	e0.50	0.28
31	2.7	---	---	---	---	4.1	---	0.24	---	0.00	e0.30	---
TOTAL	36.03	---	---	---	---	---	16.83	41.34	68.01	105.30	42.86	21.48
MEAN	1.16	---	---	---	---	---	0.56	1.33	2.27	3.40	1.38	0.72
MAX	2.7	--	---	---	---	---	4.5	4.3	8.2	17	15	7.5
MIN	0.12	--	---	---	---	---	0.00	0.07	0.20	0.00	0.00	0.00
AC-FT	71	---	---	---	---	---	33	82	135	209	85	43

e Estimated

09432000 GILA RIVER BELOW BLUE CREEK, NEAR VIRDEN, NM

LOCATION.--Lat 32°38'53", long 108°50'43", in SE ¼ SW ¼ sec.18, T.19 S., R.19 W., Grant County, Hydrologic Unit 15040002, on left bank at head of canyon, 1.4 mi downstream from Blue Creek, 10 mi east of Virden, and 16 mi upstream from New Mexico-Arizona State line.

DRAINAGE AREA.--3,203 mi^2, excluding Animas River Basin.

PERIOD OF RECORD.--May to November 1914, March to September 1915, July 1927 to current year. July 1927 to May 1931, monthly discharge only, published in WSP 1313, computed as sum of flow at Virden Bridge, 9 mi downstream, and in Sunset Canal. Published as "Gila River near Duncan, AZ," 1914-15, and as "Gila River at Fuller's Ranch, near Duncan, AZ," 1931-38.

REVISED RECORDS.--WSP 1283: drainage area. WSP 1313: 1929, 1931-32(M).

GAGE.--Water-stage recorder. Elevation of gage is 3,875 ft above sea level, from river-profile map. May 11, 1914, to Sept. 30, 1915, at site 6 mi downstream, 1,000 ft upstream from intake of Sunset Canal. June 1 to July 7, 1931, nonrecording gage at present site and datum. Since Apr. 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 fair except for those estimated, which are poor. Station is upstream from all Duncan Valley diversions. Diversions for irrigation of about 6,200 acres upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 58,700 ft^3/s Dec. 19, 1978, gage height, 29.00 ft, from rating curve extended above 38,000 ft^3/s on basis of slope-area measurement of peak flow; minimum, 1 ft^3/s July 14, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,950 ft^3/s, Sept. 25, gage height, 12.78 ft; minimum daily discharge, 8.2 ft^3/s, July 8.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e15	39	99	69	102	84	215	183	58	11	51	38
2	e17	38	97	72	102	84	203	170	52	11	54	36
3	e22	35	95	72	102	82	208	166	48	9.8	92	35
4	23	33	91	71	102	86	277	160	42	9.3	170	74
5	22	31	90	74	104	117	499	149	37	9.0	65	48
6	22	32	90	76	106	147	1,030	141	33	8.8	56	45
7	22	33	91	80	106	183	1,070	137	30	8.3	51	44
8	24	34	91	84	104	316	1,150	131	29	8.2	51	43
9	27	34	92	81	101	482	1,410	125	27	8.4	66	41
10	27	33	92	80	98	732	1,410	123	26	8.7	63	38
11	29	37	90	88	94	898	1,310	122	24	8.8	70	37
12	33	44	88	85	91	968	1,450	111	23	9.1	69	34
13	33	51	88	86	92	1,030	1,570	108	22	9.2	59	30
14	34	152	88	88	98	1,010	1,500	106	22	9.4	86	24
15	35	249	87	96	98	911	1,290	95	22	9.9	129	22
16	35	252	83	97	97	817	984	89	21	23	801	20
17	34	195	80	98	90	e765	747	86	20	29	192	19
18	31	167	79	98	85	e649	606	82	19	22	174	18
19	30	149	78	100	84	e532	519	82	18	18	245	21
20	29	136	76	100	74	488	437	82	17	16	127	24
21	28	130	74	100	71	458	380	78	16	14	114	25
22	e28	126	72	100	81	437	344	75	15	14	104	31
23	e35	120	72	100	85	411	308	72	14	89	90	32
24	40	116	72	97	90	393	275	70	13	41	78	31
25	39	113	75	96	91	382	251	65	12	80	71	1,910
26	38	110	78	106	86	377	236	63	11	76	59	224
27	41	106	79	110	82	364	221	68	11	94	50	69
28	42	103	70	110	82	352	214	65	10	72	43	68
29	41	102	68	110	82	324	204	61	10	60	32	112
30	40	100	65	105	---	278	194	58	10	59	25	84
31	39	---	62	103	---	237	---	59	---	55	175	---
TOTAL	955	2,900	2,552	2,832	2,680	14,394	20,512	3,182	712	900.9	3,512	3,277
MEAN	30.8	96.7	82.3	91.4	92.4	464	684	103	23.7	29.1	113	109
MAX	42	252	99	110	106	1,030	1,570	183	58	94	801	1,910
MIN	15	31	62	69	71	82	194	58	10	8.2	25	18
AC-FT	1,890	5,750	5,060	5,620	5,320	28,550	40,690	6,310	1,410	1,790	6,970	6,500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2004, BY WATER YEAR (WY)

MEAN	159	137	242	299	344	419	272	147	49.3	73.4	198	199
MAX	1,667	1,040	2,485	4,158	1,752	1,464	1,138	977	298	366	1,164	1,507
(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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1932 - 2004	
ANNUAL TOTAL	26,383.5		58,408.9			
ANNUAL MEAN	72.3		160		206	
HIGHEST ANNUAL MEAN					746	1993
LOWEST ANNUAL MEAN					43.1	1956
HIGHEST DAILY MEAN	294	Mar 28	1,910	Sep 25	33,100	Dec 19, 1978
LOWEST DAILY MEAN	3.8	Jul 24	8.2	Jul 8	1.7	Jul 11, 1956
ANNUAL SEVEN-DAY MINIMUM	4.7	Jul 18	8.6	Jul 5	2.0	Sep 26, 1956
ANNUAL RUNOFF (AC-FT)	52,330		115,900		149,400	
10 PERCENT EXCEEDS	150		378		438	
50 PERCENT EXCEEDS	68		80		92	
90 PERCENT EXCEEDS	10		20		22	

e Estimated

09442625 NORTH SIDE LUNA DITCH NEAR LUNA, NM

LOCATION.--Lat 33°49'05", long 108°59'18" in NE ¼ NE ¼ NE ¼ sec.14, T.6 S., R.21 W., Catron County, Hydrologic Unit 15040004, on left bank ¼ mi downstream from ditch heading and 2 mi northeast of Luna, and 250 ft from U.S. Highway 180 at road side park on left side of highway.

PERIOD OF RECORD.--March 2003 to current year (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 7,200 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.06	0.09	---	---	---	---	0.00	0.00	2.4	2.2	0.01	0.00
2	0.05	0.10	---	---	---	---	0.00	0.00	3.4	1.5	0.02	0.00
3	0.10	0.18	---	---	---	---	0.00	0.00	2.0	1.7	0.07	0.00
4	0.09	0.15	---	---	---	---	0.00	0.00	0.70	1.3	0.06	0.06
5	0.07	0.13	---	---	---	---	0.00	0.00	0.45	1.1	0.18	0.02
6	0.05	---	---	---	---	---	0.00	0.00	0.31	0.94	0.91	0.00
7	0.06	---	---	---	---	---	0.00	0.00	0.25	0.71	0.61	0.00
8	0.24	---	---	---	---	---	0.00	0.00	0.19	2.0	0.17	0.00
9	0.09	---	---	---	---	---	0.00	0.00	0.14	2.4	0.09	0.00
10	0.08	---	---	---	---	---	0.00	0.00	0.47	2.5	0.06	0.00
11	0.08	---	---	---	---	---	0.00	0.00	1.4	1.6	0.04	0.00
12	0.08	---	---	---	---	---	0.00	0.50	1.3	0.57	0.02	0.00
13	0.13	---	---	---	---	---	0.00	0.96	0.91	0.34	0.03	0.00
14	0.16	---	---	---	---	---	0.00	0.91	1.1	0.22	0.18	0.00
15	0.16	---	---	---	---	---	0.00	0.83	1.1	0.12	0.21	0.00
16	0.15	---	---	---	---	---	0.00	0.75	0.81	0.16	0.28	0.00
17	0.14	---	---	---	---	0.00	0.00	0.68	0.98	0.15	0.28	0.00
18	0.13	---	---	---	---	0.00	0.00	1.3	1.3	0.07	0.20	0.00
19	0.13	---	---	---	---	0.00	0.00	2.1	1.1	0.20	0.15	0.14
20	0.13	---	---	---	---	0.00	0.00	1.9	0.99	0.07	0.72	0.03
21	0.13	---	---	---	---	0.00	0.00	1.9	0.45	0.11	0.57	0.01
22	0.13	---	---	---	---	0.00	0.00	1.8	0.24	0.00	0.40	0.00
23	0.11	---	---	---	---	0.00	0.00	1.7	3.7	0.21	0.14	0.00
24	0.10	---	---	---	---	0.00	0.00	1.5	2.0	0.24	0.08	0.00
25	0.10	---	---	---	---	0.00	0.00	1.3	0.97	0.14	0.13	0.00
26	0.10	---	---	---	---	0.00	0.00	1.2	0.57	0.14	0.05	0.00
27	0.10	---	---	---	---	0.00	0.00	1.2	0.40	0.95	0.02	0.00
28	0.10	---	---	---	---	0.00	0.00	1.2	0.29	0.23	0.01	0.00
29	0.10	---	---	---	---	0.00	0.00	1.0	0.80	0.11	0.01	0.00
30	0.10	---	---	---	---	0.00	0.00	0.95	2.9	0.04	0.01	0.00
31	0.09	---	---	---	---	0.00	---	0.70	---	0.02	0.00	---
TOTAL	3.34	---	---	---	---	---	0.00	24.38	33.62	22.04	5.71	0.26
MEAN	0.11	---	---	---	---	---	0.00	0.79	1.12	0.71	0.18	0.01
MAX	0.24	---	---	---	---	---	0.00	2.1	3.7	2.5	0.91	0.14
MIN	0.05	---	---	---	---	---	0.00	0.00	0.14	0.00	0.00	0.00
AC-FT	6.6	---	---	---	---	---	0.00	48	67	44	11	0.5

09442661 ADAIR-LUNA DITCH NEAR LUNA, NM

LOCATION.--Lat 33°50'03", long 108°56'07" in SW ¼ SW ¼ SE ¼ sec.28, T.5 S., R.2 W., Catron County, Hydrologic Unit 15040004, on right bank ½ mi downstream from gage heading at Trout Creek, 3 mi northwest of Luna, NM, 20 mi northwest of Reserve, NM, and 10 mi southeast of Alpine, AZ.

PERIOD OF RECORD.--March to September 2004 (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 7,078 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	---	---	---	---	0.00	0.04	0.00	0.00	0.00	0.00
2	0.00	0.00	---	---	---	---	0.01	0.04	0.00	0.00	0.00	0.00
3	0.00	0.00	---	---	---	---	0.03	0.03	0.00	0.00	0.00	0.00
4	0.00	0.00	---	---	---	---	0.08	0.01	0.00	0.00	0.00	0.00
5	0.00	---	---	---	---	---	0.23	0.00	0.00	0.00	0.00	0.00
6	0.00	---	---	---	---	---	1.1	0.00	0.00	0.00	0.00	0.00
7	0.00	---	---	---	---	---	3.7	0.00	0.00	0.00	0.00	0.00
8	0.00	---	---	---	---	---	3.5	0.00	0.00	0.00	0.00	0.00
9	0.00	---	---	---	---	---	2.9	0.00	0.00	0.00	0.00	0.00
10	0.00	---	---	---	---	---	2.1	0.00	0.00	0.00	0.00	0.00
11	0.00	---	---	---	---	---	2.1	0.00	0.00	0.00	0.00	0.00
12	0.00	---	---	---	---	---	2.6	0.00	0.00	0.00	0.00	0.00
13	0.00	---	---	---	---	---	2.4	0.00	0.00	0.00	0.00	0.00
14	0.00	---	---	---	---	---	1.7	0.00	0.00	0.00	0.00	0.00
15	0.00	---	---	---	---	---	1.1	0.00	0.00	0.00	0.00	0.00
16	0.00	---	---	---	---	---	0.68	0.00	0.00	0.00	0.00	0.00
17	0.00	---	---	---	---	0.09	0.46	0.00	0.00	0.00	0.00	0.00
18	0.00	---	---	---	---	0.09	0.33	0.00	0.00	0.00	0.00	0.00
19	0.00	---	---	---	---	0.04	0.23	0.00	0.00	0.00	0.00	0.00
20	0.00	---	---	---	---	0.01	0.17	0.00	0.00	0.00	0.00	0.00
21	0.00	---	---	---	---	0.00	0.13	0.00	0.00	0.00	0.00	0.00
22	0.00	---	---	---	---	0.00	0.10	0.00	0.00	0.00	0.00	0.00
23	0.00	---	---	---	---	0.01	0.09	0.00	0.00	0.00	0.00	0.00
24	0.00	---	---	---	---	0.03	0.08	0.00	0.00	0.00	0.00	0.00
25	0.00	---	---	---	---	0.04	0.08	0.00	0.00	0.00	0.00	0.00
26	0.00	---	---	---	---	0.03	0.07	0.00	0.00	0.00	0.00	0.00
27	0.00	---	---	---	---	0.03	0.08	0.00	0.00	0.00	0.00	0.00
28	0.00	---	---	---	---	0.02	0.07	0.00	0.00	0.00	0.00	0.00
29	0.00	---	---	---	---	0.01	0.06	0.00	0.00	0.00	0.00	0.00
30	0.00	---	---	---	---	0.00	0.05	0.00	0.00	0.00	0.00	0.00
31	0.00	---	---	---	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	---	---	---	---	---	26.23	0.12	0.00	0.00	0.00	0.00
MEAN	0.00	---	---	---	---	---	0.87	0.00	0.00	0.00	0.00	0.00
MAX	0.00	---	---	---	---	---	3.7	0.04	0.00	0.00	0.00	0.00
MIN	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	---	---	---	---	---	52	0.2	0.00	0.00	0.00	0.00

09442662 L. LANEY DITCH NEAR LUNA, NM

LOCATION.--Lat 33°49'37", long 108°55'34" in NW ¼ NE ¼ NE ¼ sec.33, T.5 S., R.20 W., Catron County, Hydrologic Unit 15040004, on right bank 20 mi northwest of Reserve, NM, 3 mi southeast of Luna, NM, and 15 mi southeast of Alpine, AZ.

PERIOD OF RECORD.--March to September 2004 (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 7,014 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.00	e0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
2	e0.00	e0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
3	e0.00	e0.00	---	---	---	---	0.07	0.00	0.00	0.00	0.00	0.00
4	e0.00	e0.00	---	---	---	---	0.59	0.00	0.00	0.00	0.00	0.00
5	e0.00	e0.00	---	---	---	---	1.1	0.00	0.00	0.00	0.00	0.00
6	e0.00	e0.00	---	---	---	---	2.3	0.00	0.00	0.00	0.00	0.00
7	e0.00	---	---	---	---	---	2.4	0.00	0.00	0.00	0.00	0.00
8	e0.00	---	---	---	---	---	2.6	0.00	0.00	0.00	0.00	0.00
9	e0.00	---	---	---	---	---	2.4	0.00	0.00	0.00	0.00	0.00
10	e0.00	---	---	---	---	---	2.3	0.00	0.00	0.00	0.00	0.00
11	e0.00	---	---	---	---	---	2.3	0.00	0.00	0.00	0.00	0.00
12	e0.00	---	---	---	---	---	2.3	0.00	0.00	0.00	0.00	0.00
13	e0.00	---	---	---	---	---	2.3	0.00	0.00	0.00	0.00	0.00
14	e0.00	---	---	---	---	---	2.2	0.00	0.00	0.00	0.00	0.00
15	e0.00	---	---	---	---	---	2.1	0.00	0.00	0.00	0.00	0.00
16	e0.00	---	---	---	---	---	1.9	0.00	0.00	0.00	0.00	0.00
17	e0.00	---	---	---	---	1.3	1.5	0.00	0.00	0.00	0.00	0.00
18	e0.00	---	---	---	---	0.83	1.0	0.00	0.00	0.00	0.00	0.00
19	e0.00	---	---	---	---	0.57	0.71	0.00	0.00	0.00	0.00	0.00
20	e0.00	---	---	---	---	0.34	0.46	0.00	0.00	0.00	0.00	0.00
21	e0.00	---	---	---	---	0.14	0.26	0.00	0.00	0.00	0.00	0.00
22	e0.00	---	---	---	---	0.06	0.12	0.00	0.00	0.00	0.00	0.00
23	e0.00	---	---	---	---	0.07	0.05	0.00	0.00	0.00	0.00	0.00
24	e0.00	---	---	---	---	0.08	0.01	0.00	0.00	0.00	0.00	0.00
25	e0.00	---	---	---	---	0.12	0.01	0.00	0.00	0.00	0.00	0.00
26	e0.00	---	---	---	---	0.03	0.00	0.00	0.00	0.00	0.00	0.00
27	e0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	e0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	e0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	e0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	e0.00	---	---	---	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	---	---	---	---	---	30.98	0.00	0.00	0.00	0.00	0.00
MEAN	0.00	---	---	---	---	---	1.03	0.00	0.00	0.00	0.00	0.00
MAX	0.00	---	---	---	---	---	2.6	0.00	0.00	0.00	0.00	0.00
MIN	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	---	---	---	---	---	61	0.00	0.00	0.00	0.00	0.00

e Estimated

09442666 W.S. LANEY DITCH NEAR LUNA, NM

LOCATION.--Lat 33°51'46", long 108°52'24", in SE ¼ SE ¼ SW ¼ sec.13, T.5 S., R.20 W., Catron County, Hydrologic Unit 15040004, on right bank 9.0 mi northeast of Luna, and 20 mi north of Reserve, NM.

PERIOD OF RECORD.--October 1999 to current year (irrigation season only).

GAGE.--Water-stage recorder with Parshall flume. Elevation of gage is 6,880 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.62	0.84	---	---	---	---	1.1	1.1	0.65	0.65	0.59	0.44
2	0.65	0.93	---	---	---	---	1.6	1.1	0.63	0.57	0.82	0.40
3	0.80	0.97	---	---	---	---	1.8	1.1	0.56	0.53	0.89	0.37
4	0.78	0.92	---	---	---	---	1.4	1.1	0.59	0.50	0.97	0.52
5	0.71	0.91	---	---	---	---	1.2	1.1	0.75	0.49	1.2	0.46
6	0.66	---	---	---	---	---	1.2	1.1	0.75	0.50	1.3	0.38
7	0.69	---	---	---	---	---	1.1	1.2	0.68	0.52	1.8	0.35
8	0.98	---	---	---	---	---	1.2	1.2	0.62	0.54	1.4	0.34
9	0.72	---	---	---	---	---	1.2	1.2	0.61	0.61	1.1	0.34
10	0.69	---	---	---	---	---	1.2	1.2	0.59	0.71	1.2	0.33
11	0.68	---	---	---	---	---	1.2	1.1	0.61	0.84	1.0	0.34
12	0.69	---	---	---	---	---	0.97	1.1	0.62	0.83	0.94	0.37
13	0.71	---	---	---	---	---	0.82	1.0	0.61	0.82	0.94	0.37
14	0.69	---	---	---	---	---	0.81	1.0	0.62	0.88	1.7	0.38
15	0.68	---	---	---	---	---	0.77	1.0	0.60	1.00	2.3	0.40
16	0.68	---	---	---	---	---	0.74	1.0	0.57	1.2	2.3	0.42
17	0.71	---	---	---	---	1.1	0.71	0.97	0.55	0.92	2.1	0.42
18	0.77	---	---	---	---	1.1	0.62	0.95	0.55	0.88	2.0	0.59
19	0.77	---	---	---	---	1.1	0.56	0.96	0.53	0.90	1.9	0.99
20	0.77	---	---	---	---	1.1	0.54	0.91	0.53	0.82	1.7	0.71
21	0.78	---	---	---	---	1.2	0.55	0.88	0.52	0.82	1.4	0.59
22	0.79	---	---	---	---	1.3	0.49	0.86	0.55	0.80	1.2	0.59
23	0.77	---	---	---	---	1.3	0.49	0.84	0.60	0.75	0.92	0.61
24	0.76	---	---	---	---	1.3	0.49	0.84	0.59	0.79	0.91	0.65
25	0.76	---	---	---	---	1.2	0.49	0.81	0.57	0.78	0.91	0.78
26	0.74	---	---	---	---	1.2	0.46	0.80	0.65	0.76	0.71	0.88
27	0.76	---	---	---	---	1.1	0.46	0.78	0.72	0.76	0.61	0.80
28	0.79	---	---	---	---	1.1	0.48	0.74	0.68	0.79	0.54	0.75
29	0.77	---	---	---	---	1.1	0.75	0.71	1.0	0.73	0.50	1.0
30	0.75	---	---	---	---	1.1	1.1	0.67	1.1	0.66	0.45	1.0
31	0.75	---	---	---	---	1.1	---	0.68	---	0.64	0.51	---
TOTAL	22.87	---	---	---	---	---	26.50	30.00	19.20	22.99	36.81	16.57
MEAN	0.74	---	---	---	---	---	0.88	0.97	0.64	0.74	1.19	0.55
MAX	0.98	---	---	---	---	--	1.8	1.2	1.1	1.2	2.3	1.0
MIN	0.62	---	---	---	---	--	0.46	0.67	0.52	0.49	0.45	0.33
AC-FT	45	---	---	---	---	---	53	60	38	46	73	33

09442667 A. LANEY DITCH NEAR LUNA, NM

LOCATION.--Lat 33°49'51", long 108°50'24", in NE ¼ NE ¼ SW ¼ sec. 32, T.5 S., R.19 W., Catron County, Hydrologic Unit 15040004, on right bank 0.5 mi below gage heading, 21 mi northeast of Reserve, NM, 5 mi southeast of Luna, NM, and 10 mi southeast of Alpine, AZ.

PERIOD OF RECORD.--October 2003 to September 2004 (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 6,685 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.18	0.25	---	---	---	---	0.59	0.62	0.70	0.39	0.17	0.30
2	0.19	0.27	---	---	---	---	0.70	0.61	0.68	0.37	0.22	0.28
3	0.23	0.28	---	---	---	---	0.83	0.65	0.68	0.36	0.21	0.28
4	0.22	0.27	---	---	---	---	0.73	0.71	0.70	0.35	0.28	0.33
5	0.21	0.27	---	---	---	---	0.70	0.55	0.72	0.33	0.25	0.29
6	0.19	0.26	---	---	---	---	0.64	0.49	0.75	0.33	0.21	0.27
7	0.24	---	---	---	---	---	0.56	0.49	0.74	0.34	0.84	0.27
8	0.28	---	---	---	---	---	0.58	0.50	0.75	0.34	1.0	0.25
9	0.24	---	---	---	---	---	0.53	0.52	0.77	0.36	0.81	0.22
10	0.24	---	---	---	---	---	0.56	0.47	0.71	0.42	0.80	0.23
11	0.23	---	---	---	---	---	0.56	0.36	0.69	0.41	0.58	0.23
12	0.23	---	---	---	---	---	0.52	0.34	0.70	0.39	0.49	0.21
13	0.22	---	---	---	---	---	0.50	0.34	0.66	0.36	0.40	0.19
14	0.21	---	---	---	---	---	0.47	0.41	0.65	0.34	0.44	0.21
15	0.21	---	---	---	---	---	0.45	0.66	0.63	0.19	1.2	0.22
16	0.21	---	---	---	---	---	0.44	0.65	0.60	0.13	1.3	0.20
17	0.24	---	---	---	---	0.00	0.43	0.65	0.61	0.16	1.3	0.20
18	0.23	---	---	---	---	0.00	0.42	0.68	0.70	0.20	1.2	0.24
19	0.23	---	---	---	---	0.00	0.41	0.70	0.68	0.21	1.2	0.27
20	0.24	---	---	---	---	0.35	0.43	0.68	0.67	0.20	1.1	0.21
21	0.25	---	---	---	---	0.64	0.43	0.69	0.65	0.20	1.0	0.19
22	0.25	---	---	---	---	0.65	0.39	0.54	0.63	0.18	0.87	0.20
23	0.25	---	---	---	---	0.64	0.40	0.35	0.61	0.17	0.60	0.21
24	0.25	---	---	---	---	0.63	0.43	0.34	0.59	0.23	0.56	0.21
25	0.26	---	---	---	---	0.63	0.49	0.35	0.59	0.15	0.63	0.25
26	0.27	---	---	---	---	0.62	0.47	0.55	0.58	0.16	0.50	0.25
27	0.27	---	---	---	---	0.61	0.56	0.77	0.54	0.18	0.41	0.21
28	0.28	---	---	---	---	0.60	0.63	0.75	0.53	0.23	0.39	0.18
29	0.27	---	---	---	---	0.60	0.63	0.74	0.48	0.25	0.37	0.23
30	0.26	---	---	---	---	0.59	0.65	0.72	0.43	0.21	0.35	0.21
31	0.25	---	---	---	---	0.60	---	0.72	---	0.20	0.33	---
TOTAL	7.33	---	---	---	---	---	16.13	17.60	19.42	8.34	20.01	7.04
MEAN	0.24	---	---	---	---	---	0.54	0.57	0.65	0.27	0.65	0.23
MAX	0.28	---	---	---	---	---	0.83	0.77	0.77	0.42	1.3	0.33
MIN	0.18	---	---	---	---	---	0.39	0.34	0.43	0.13	0.17	0.18
AC-FT	15	---	---	---	---	---	32	35	39	17	40	14

09442669 LEWIS DITCH NEAR RESERVE, NM

LOCATION.--Lat 33°48'27", long 108°46'52", in SW ¼ SE ¼ NW ¼ sec.2, T.6 S., R.19 W., Catron County, Hydrologic Unit 15040004, on right bank 50 ft downstream from ditch heading, 7.0 mi due north of Reserve, and 4.0 mi northwest of State Highway 12 at JTS Park turn.

PERIOD OF RECORD.--October 2002 to current year (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 6,200 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.8	---	---	---	---	4.1	5.5	2.3	2.2	1.9	3.3
2	2.1	2.8	---	---	---	---	5.5	5.5	2.2	1.9	2.4	3.2
3	2.4	2.8	---	---	---	---	8.6	5.3	2.3	1.8	2.7	3.2
4	2.6	2.9	---	---	---	---	9.4	5.1	2.2	1.7	3.0	3.7
5	2.6	---	---	---	---	---	9.1	5.1	2.3	1.6	3.7	3.5
6	2.4	---	---	---	---	---	11	5.1	2.0	1.6	3.2	3.3
7	2.5	---	---	---	---	---	12	4.9	2.3	1.6	3.6	3.3
8	3.9	---	---	---	---	---	13	4.8	1.9	1.8	5.4	3.2
9	3.1	---	---	---	---	---	12	4.9	2.0	1.9	4.6	3.0
10	2.8	---	---	---	---	---	12	4.5	1.8	2.1	4.2	3.0
11	2.6	---	---	---	---	---	12	4.4	1.8	2.3	3.8	2.9
12	2.8	---	---	---	---	---	12	4.2	1.8	2.7	3.2	2.9
13	2.6	---	---	---	---	---	11	4.1	1.8	2.7	3.0	2.8
14	2.5	---	---	---	---	---	11	4.1	1.8	2.4	3.6	2.7
15	2.5	---	---	---	---	---	10	3.7	1.8	2.3	6.1	2.7
16	2.4	---	---	---	---	---	9.3	3.6	1.6	2.1	7.9	2.5
17	2.4	---	---	---	---	---	8.6	3.5	1.6	2.1	7.8	2.5
18	2.4	---	---	---	---	5.6	8.1	3.3	1.5	2.0	7.2	2.9
19	2.3	---	---	---	---	5.1	7.7	3.1	1.4	1.9	6.3	3.8
20	2.4	---	---	---	---	4.9	7.2	3.0	1.5	2.0	6.2	3.3
21	2.4	---	---	---	---	4.4	6.8	2.9	1.5	1.9	5.7	3.1
22	2.4	---	---	---	---	4.4	6.5	2.8	1.5	1.9	5.3	2.8
23	2.4	---	---	---	---	4.7	6.2	3.0	1.7	2.3	4.7	2.8
24	2.5	---	---	---	---	4.7	6.2	3.0	1.9	2.7	4.4	2.6
25	2.5	---	---	---	---	4.4	6.1	3.0	2.0	3.1	4.2	2.7
26	2.6	---	---	---	---	4.3	5.8	3.0	2.1	2.6	4.0	3.1
27	2.6	---	---	---	---	4.2	5.4	2.8	2.6	2.5	3.6	3.1
28	2.7	---	---	---	---	4.1	5.4	2.5	2.6	2.6	3.4	2.9
29	2.7	---	---	---	---	4.1	5.6	2.5	3.2	2.5	3.3	3.1
30	2.8	---	---	---	---	4.0	5.5	2.4	2.9	2.2	3.3	3.3
31	2.8	---	---	---	---	4.0	---	2.4	---	1.7	3.4	---
TOTAL	79.8	---	---	---	---	---	253.1	118.0	59.9	66.7	135.1	91.2
MEAN	2.57	---	---	---	---	---	8.44	3.81	2.00	2.15	4.36	3.04
MAX	3.9	--	---	---	---	--	13	5.5	3.2	3.1	7.9	3.8
MIN	2.1	--	---	---	---	--	4.1	2.4	1.4	1.6	1.9	2.5
AC-FT	158	---	---	---	---	---	502	234	119	132	268	181

09442677 CIENEGA DITCH NEAR RESERVE, NM

LOCATION.--Lat 33°45'07", long 108°47'11", in NE ¼ NE ¼ SW ¼ sec.27, T.6 S., R.19 W., Catron County, Hydrologic Unit 15040004, on right bank 0.25 mi below gage heading, 5 mi northwest of Reserve, NM, 7 mi from junction of U.S. 80 at State Road 12, and 18 mi southeast of Luna.

PERIOD OF RECORD.--October 2003 to September 2004 (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 6,686 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.02	---	---	---	---	0.19	0.12	0.11	e0.14	e0.15	0.18
2	0.01	0.03	---	---	---	---	0.32	0.13	0.10	e0.14	e0.16	0.17
3	0.04	0.03	---	---	---	---	0.42	0.13	0.09	e0.14	e0.17	0.17
4	0.02	---	---	---	---	---	0.38	0.12	0.11	e0.13	e0.17	0.23
5	0.02	---	---	---	---	---	0.80	0.10	0.11	e0.13	e0.17	0.21
6	0.02	---	---	---	---	---	0.68	0.09	0.10	e0.14	e0.19	0.20
7	0.05	---	---	---	---	---	0.42	0.09	0.09	e0.13	e0.20	0.19
8	0.16	---	---	---	---	---	0.40	0.08	0.09	e0.13	e0.22	0.18
9	0.04	---	---	---	---	---	0.28	0.08	0.09	e0.13	e0.23	0.17
10	0.05	---	---	---	---	---	0.28	0.08	0.10	e0.14	e0.23	0.16
11	0.04	---	---	---	---	---	0.41	0.11	0.10	e0.14	0.20	0.14
12	0.24	---	---	---	---	---	0.20	0.17	0.09	e0.14	0.18	0.13
13	0.24	---	---	---	---	---	0.16	0.17	0.08	e0.14	0.19	0.12
14	0.15	---	---	---	---	---	0.13	0.17	0.07	e0.13	0.19	0.13
15	0.13	---	---	---	---	---	0.11	0.16	0.07	e0.14	0.23	0.13
16	0.13	---	---	---	---	---	0.10	0.15	0.07	e0.14	0.31	0.11
17	0.11	---	---	---	---	0.14	0.10	0.14	0.07	e0.14	0.31	0.12
18	0.10	---	---	---	---	0.12	0.10	0.14	0.06	e0.14	0.26	0.21
19	0.10	---	---	---	---	0.12	0.10	0.13	0.06	e0.13	0.26	0.22
20	0.08	---	---	---	---	0.13	0.10	0.12	0.06	e0.13	0.36	0.17
21	0.08	---	---	---	---	0.12	0.10	0.12	0.06	e0.13	0.27	0.15
22	0.10	---	---	---	---	0.12	0.10	0.14	0.06	e0.13	0.25	0.16
23	0.11	---	---	---	---	0.14	0.11	0.19	0.05	e0.12	0.22	0.15
24	0.10	---	---	---	---	0.14	0.11	0.16	0.05	e0.13	0.30	0.14
25	0.10	---	---	---	---	0.13	0.14	0.15	0.05	e0.13	0.25	0.19
26	0.06	---	---	---	---	0.15	0.14	0.16	0.09	e0.13	0.21	0.17
27	0.02	---	---	---	---	0.15	0.13	0.16	0.08	e0.13	0.18	0.16
28	0.02	---	---	---	---	0.15	0.13	0.15	0.10	e0.13	0.17	0.16
29	0.03	---	---	---	---	0.15	0.12	0.14	0.10	e0.14	0.16	0.21
30	0.05	---	---	---	---	0.16	0.11	0.14	0.09	e0.15	0.16	0.18
31	0.05	---	---	---	---	0.17	---	0.12	---	e0.16	0.17	---
TOTAL	2.45	---	---	---	---	---	6.87	4.11	2.45	4.20	6.72	5.01
MEAN	0.08	---	---	---	---	---	0.23	0.13	0.08	0.14	0.22	0.17
MAX	0.24	---	---	---	---	---	0.80	0.19	0.11	0.16	0.36	0.23
MIN	0.00	---	---	---	---	---	0.10	0.08	0.05	0.12	0.15	0.11
AC-FT	4.9	---	---	---	---	---	14	8.2	4.9	8.3	13	9.9

e Estimated

09442680 SAN FRANCISCO RIVER NEAR RESERVE, NM

LOCATION.--Lat 33°44'12", long 108°46'14", in NE ¼ NW ¼ SE ¼ 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 poor. Possible minor regulation by Luna Lake, 27 mi upstream. Diversions for irrigation of about 280 acres upstream from station. Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, about 15 ft, as determined in 1962 from old floodmarks. Major floods of Nov. 26, 1905, and Dec. 3, 1906, exceeded 20,000 ft^3/s at Alma (downstream). See WSP 1313.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.5	3.6	4.7	4.3	4.9	4.7	8.6	3.5	1.6	1.2	1.6
2	1.3	2.6	3.9	4.8	3.9	5.0	7.4	8.3	4.6	1.2	1.7	1.4
3	1.8	2.5	3.5	4.8	4.1	4.9	19	6.6	4.9	1.1	1.7	1.3
4	1.6	2.4	3.5	4.9	4.8	5.3	10	7.2	2.4	1.1	11	1.4
5	1.7	2.5	3.5	4.4	4.8	7.1	6.0	7.0	3.8	1.2	5.1	2.0
6	1.7	2.6	3.5	4.3	4.3	5.9	5.0	4.2	2.0	0.95	3.5	1.3
7	1.8	2.7	3.4	4.6	4.0	5.7	12	7.3	3.1	0.95	2.7	2.0
8	9.9	3.1	3.7	4.5	4.1	5.5	19	7.4	3.0	0.73	3.1	0.89
9	2.6	3.2	3.7	4.3	4.1	5.3	14	8.4	4.1	1.2	4.1	1.3
10	2.4	3.0	3.5	4.7	4.1	5.5	13	8.3	3.6	1.6	4.1	0.55
11	2.3	3.2	3.5	5.0	4.3	6.3	18	8.4	4.5	2.2	2.9	0.65
12	2.6	3.8	3.9	4.9	4.1	7.0	14	8.8	6.3	4.2	2.8	0.70
13	1.8	52	3.5	4.6	4.3	7.6	10	9.0	5.1	2.0	2.6	0.71
14	1.7	9.6	4.0	4.9	3.9	7.9	7.7	9.3	4.7	1.1	2.7	0.67
15	1.7	5.8	4.2	5.2	4.2	7.7	4.9	9.0	4.0	0.97	4.1	0.62
16	1.7	5.0	4.0	5.2	4.1	7.4	3.0	7.2	3.7	0.80	9.1	0.61
17	1.7	4.6	3.7	4.9	4.2	7.4	1.7	8.7	4.9	0.71	12	0.52
18	1.7	4.2	3.8	4.0	4.2	7.4	0.97	8.1	5.2	0.60	13	0.78
19	1.7	4.0	3.7	4.1	4.2	7.2	8.2	8.0	5.2	0.42	13	0.95
20	1.7	3.6	3.7	4.0	4.2	6.3	12	6.3	5.4	0.37	12	0.74
21	1.7	3.5	3.9	4.2	4.2	6.3	8.1	1.5	4.7	0.38	10	0.69
22	2.0	3.6	3.8	4.7	4.1	6.1	10	4.0	4.0	0.30	9.7	0.71
23	1.7	3.8	3.8	4.6	4.2	6.7	15	2.2	4.1	3.0	6.5	0.69
24	1.8	3.7	4.2	4.7	4.2	7.0	14	2.4	4.3	3.3	5.6	0.67
25	1.9	3.8	4.3	4.9	4.1	6.7	13	3.4	5.3	2.4	5.0	0.84
26	2.1	3.7	4.4	4.5	3.7	6.2	11	6.5	8.1	2.3	3.9	0.93
27	2.1	3.5	4.1	4.3	4.2	5.7	9.0	5.3	5.9	2.4	3.1	1.1
28	2.2	3.7	3.9	4.4	5.4	5.0	6.8	2.9	0.60	2.7	2.4	1.2
29	2.2	3.8	3.9	4.4	5.1	4.9	8.8	4.4	1.6	1.9	1.9	1.8
30	2.4	3.7	4.2	4.3	---	4.6	5.7	4.5	2.8	1.6	1.6	2.2
31	2.5	---	4.1	4.3	---	4.8	---	6.2	---	1.0	1.5	---
TOTAL	67.4	159.7	118.4	142.1	123.4	191.3	291.97	199.4	125.40	46.28	163.6	31.52
MEAN	2.17	5.32	3.82	4.58	4.26	6.17	9.73	6.43	4.18	1.49	5.28	1.05
MAX	9.9	52	4.4	5.2	5.4	7.9	19	9.3	8.1	4.2	13	2.2
MIN	1.3	2.4	3.4	4.0	3.7	4.6	0.97	1.5	0.60	0.30	1.2	0.52
AC-FT	134	317	235	282	245	379	579	396	249	92	325	63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

MEAN	27.2	18.7	19.2	19.7	36.0	71.0	48.9	18.2	6.27	7.94	16.3	18.3
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	2.17	4.33	3.82	4.58	4.26	4.04	3.38	2.27	1.39	1.34	2.31	1.05
(WY)	(2004)	(2003)	(2004)	(2004)	(2004)	(1959)	(1967)	(2002)	(1990)	(1995)	(2003)	(2004)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1959 - 2004	
ANNUAL TOTAL	1,767.64		1,660.47			
ANNUAL MEAN	4.84		4.54		25.9	
HIGHEST ANNUAL MEAN					101	1973
LOWEST ANNUAL MEAN					4.54	2004
HIGHEST DAILY MEAN	52	Nov 13	52	Nov 13	5,000	Oct 20, 1972
LOWEST DAILY MEAN	0.79	Jul 14	0.30	Jul 22	0.24	Jul 18, 1997
ANNUAL SEVEN-DAY MINIMUM	0.92	Jul 9	0.51	Jul 16	0.43	Sep 21, 2000
MAXIMUM PEAK FLOW			210	Nov 13	a9,830	Oct 1, 1983
MAXIMUM PEAK STAGE			2.40	Nov 13	b11.71	Oct 1, 1983
INSTANTANEOUS LOW FLOW			0.00	May 21	0.00	Jul 5, 2003
ANNUAL RUNOFF (AC-FT)	3,510		3,290		18,740	
10 PERCENT EXCEEDS	8.2		8.3		50	
50 PERCENT EXCEEDS	4.0		4.1		8.0	
90 PERCENT EXCEEDS	1.7		1.2		3.3	

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.

09442682 KIEHNE DITCH NEAR RESERVE, NM

LOCATION.--Lat 33°42'14", long 108°45'24", in SE ¼ SW ¼ NE ¼, sec. 12, T.7 S., R.19 W., Catron County, Hydrologic Unit 15040004, on left bank 0.7 mi southwest of Reserve, and 12.7 mi southwest of Apache Creek, NM.

PERIOD OF RECORD.--October 1999 to current year (irrigation season only).

GAGE.--Water-stage recorder with Parshall flume. Elevation of gage is 5,720 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.02	0.01	---	---	---	---	4.5	4.9	1.4	1.6	2.2	0.07
2	0.02	0.01	---	---	---	---	5.6	3.4	1.5	1.3	2.9	0.09
3	0.03	0.01	---	---	---	---	4.6	7.3	1.5	1.2	2.9	1.2
4	0.01	0.02	---	---	---	---	0.00	7.3	1.3	1.1	5.1	2.5
5	0.01	---	---	---	---	---	0.00	7.2	2.1	1.0	6.9	1.5
6	0.02	---	---	---	---	---	0.00	7.0	2.7	0.97	4.8	0.89
7	0.02	---	---	---	---	---	0.00	6.8	2.5	0.93	3.9	0.60
8	0.03	---	---	---	---	---	0.00	7.0	2.3	0.90	2.8	0.41
9	0.02	---	---	---	---	---	0.00	7.0	2.2	1.2	2.5	0.26
10	0.02	---	---	---	---	---	0.00	7.1	2.1	1.3	1.6	0.11
11	0.03	---	---	---	---	---	0.00	7.0	2.0	1.5	3.5	1.4
12	0.04	---	---	---	---	---	0.00	7.0	1.6	2.0	3.7	1.6
13	0.03	---	---	---	---	---	0.00	6.9	1.8	2.3	3.8	1.1
14	0.03	---	---	---	---	---	0.00	6.7	1.7	1.8	3.6	0.56
15	0.03	---	---	---	---	---	0.00	6.5	1.3	1.9	2.7	0.40
16	0.03	---	---	---	---	---	0.00	6.3	0.63	1.7	2.3	0.63
17	0.03	---	---	---	---	0.00	0.00	6.0	0.36	2.0	2.1	1.0
18	0.02	---	---	---	---	0.00	0.00	5.8	0.53	1.8	1.7	1.1
19	0.02	---	---	---	---	0.00	0.00	5.2	1.3	1.7	0.96	0.56
20	0.02	---	---	---	---	4.8	4.3	5.0	1.2	1.5	0.64	0.12
21	0.02	---	---	---	---	8.4	6.7	4.9	1.1	1.5	0.55	0.12
22	0.01	---	---	---	---	3.8	6.6	4.9	1.1	1.4	0.53	0.07
23	0.01	---	---	---	---	5.3	6.2	4.8	1.1	3.8	0.40	0.06
24	0.01	---	---	---	---	8.5	6.2	4.6	1.1	4.4	0.32	0.21
25	0.02	---	---	---	---	8.5	6.1	4.4	1.1	3.7	0.10	0.43
26	0.02	---	---	---	---	8.0	6.2	4.3	1.2	3.6	0.13	0.22
27	0.02	---	---	---	---	6.7	6.2	3.3	1.3	2.1	0.14	1.2
28	0.02	---	---	---	---	4.6	6.2	2.8	1.5	0.00	0.12	2.5
29	0.02	---	---	---	---	3.7	6.2	1.9	1.8	0.58	0.14	2.8
30	0.02	---	---	---	---	4.0	6.2	1.5	1.9	2.5	0.14	2.8
31	0.01	---	---	---	---	4.3	---	1.4	---	2.3	0.07	---
TOTAL	0.66	---	---	---	---	---	81.80	166.2	45.22	55.58	63.24	26.51
MEAN	0.02	---	---	---	---	---	2.73	5.36	1.51	1.79	2.04	0.88
MAX	0.04	---	---	---	---	---	6.7	7.3	2.7	4.4	6.9	2.8
MIN	0.01	---	---	---	---	---	0.00	1.4	0.36	0.00	0.07	0.06
AC-FT	1.3	---	---	---	---	---	162	330	90	110	125	53

09442683 PARSONS DITCH NEAR RESERVE, NM

LOCATION.--Lat 33°41'26", long 108°45'56" in SW ¼ NW ¼ SW ¼ sec.13, T.7 S., R.19 W., Catron County, Hydrologic Unit 15040004, on left bank 1.5 mi southwest of Reserve, 1/8 mi south of State Highway 435, and 500 ft south of San Francisco Plaza.

PERIOD OF RECORD.--May 2003 to current year (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 5,720 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	---	---	---	---	0.00	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	0.00	0.00
22	0.00	---	---	---	---	0.00	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	0.00	0.00
24	0.00	---	---	---	---	0.00	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	0.00	0.00
26	0.00	---	---	---	---	0.00	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	0.00	0.00
28	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	---	---	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
MAX	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
MIN	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00

09442684 MIDDLE FRISCO DITCH NEAR RESERVE, NM

LOCATION.--Lat 33°41'27", long 108°45'57" in SE ¼ NE ¼ SE ¼ sec.14, T.7 S., R.19 W., Catron County, Hydrologic Unit 15040004, on left bank 1.5 mi southwest of Reserve, 1/8 mi south of State Highway 435, and 500 ft south of San Francisco Plaza.

PERIOD OF RECORD.--March 2003 to current year (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 5,720 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	---	---	---	---	2.0	3.0	1.1	0.47	1.3	0.00
2	0.00	0.00	---	---	---	---	2.7	1.7	1.2	0.43	1.9	0.00
3	0.00	0.00	---	---	---	---	2.1	4.0	1.2	0.40	2.3	0.74
4	0.00	---	---	---	---	---	0.00	2.0	1.1	0.60	2.6	2.5
5	0.00	---	---	---	---	---	0.00	1.8	1.5	0.84	3.2	1.3
6	0.00	---	---	---	---	---	0.00	1.6	2.0	0.93	2.0	0.54
7	0.00	---	---	---	---	---	0.00	1.4	1.6	0.88	1.2	0.39
8	0.00	---	---	---	---	---	0.00	1.2	1.3	0.84	0.83	0.30
9	0.00	---	---	---	---	---	0.00	1.7	1.2	1.1	0.74	0.16
10	0.00	---	---	---	---	---	0.00	2.2	1.00	1.3	0.45	0.04
11	0.00	---	---	---	---	---	0.00	2.4	0.86	1.6	0.74	0.00
12	0.00	---	---	---	---	---	0.00	1.9	0.88	2.1	0.74	0.00
13	0.00	---	---	---	---	---	0.00	1.6	1.1	2.3	0.77	0.00
14	0.00	---	---	---	---	---	0.00	0.99	1.1	1.1	0.68	0.00
15	0.00	---	---	---	---	---	0.00	1.1	0.90	0.86	0.51	0.00
16	0.00	---	---	---	---	---	0.00	0.91	0.65	0.71	0.43	0.32
17	0.00	---	---	---	---	---	0.00	0.99	0.40	0.67	0.37	1.3
18	0.00	---	---	---	---	0.00	0.00	0.94	0.36	0.61	0.26	1.1
19	0.00	---	---	---	---	0.00	0.00	1.5	0.83	0.73	0.22	0.62
20	0.00	---	---	---	---	0.00	0.00	2.1	0.76	0.65	0.26	0.04
21	0.00	---	---	---	---	0.00	0.00	2.1	0.69	0.60	0.00	0.00
22	0.00	---	---	---	---	0.00	0.00	2.1	0.60	0.49	0.00	0.00
23	0.00	---	---	---	---	1.8	1.5	2.1	0.57	1.3	0.00	0.00
24	0.00	---	---	---	---	3.5	3.5	1.9	0.56	0.83	0.00	0.03
25	0.00	---	---	---	---	4.0	3.7	1.9	0.50	0.57	0.00	0.26
26	0.00	---	---	---	---	4.0	3.7	1.9	0.49	0.47	0.00	0.05
27	0.00	---	---	---	---	3.3	4.1	1.4	0.50	0.31	0.00	0.80
28	0.00	---	---	---	---	2.1	3.9	1.6	0.48	0.00	0.00	2.9
29	0.00	---	---	---	---	1.8	3.0	1.5	0.49	0.04	0.00	2.9
30	0.00	---	---	---	---	2.0	3.2	1.2	0.50	0.73	0.00	2.8
31	0.00	---	---	---	---	2.0	---	1.1	---	1.4	0.00	---
TOTAL	0.00	---	---	---	---	---	33.40	53.83	26.42	25.86	21.50	19.09
MEAN	0.00	---	---	---	---	---	1.11	1.74	0.88	0.83	0.69	0.64
MAX	0.00	---	---	---	---	---	4.1	4.0	2.0	2.3	3.2	2.9
MIN	0.00	---	---	---	---	---	0.00	0.91	0.36	0.00	0.00	0.00
AC-FT	0.00	---	---	---	---	---	66	107	52	51	43	38

09442704 TULAROSA-CRUZVILLE DITCH NEAR ARAGON, NM

LOCATION.--Lat 33°48'25", long 108°39'40", in SW ¼ NW ¼ SE ¼ sec.1, T.6 S., R.18 W., Catron County, Hydrologic Unit 15040004, on right bank 3 mi southwest of Apache Creek, 7 mi southwest of Aragon, and 9 mi northeast of Reserve.

PERIOD OF RECORD.--October 2003 to September 2004 (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 6,307 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	---	---	---	---	0.27	0.41	0.00	0.00	0.00	0.00
2	0.00	0.00	---	---	---	---	0.61	0.34	0.00	0.00	0.00	0.00
3	0.00	0.00	---	---	---	---	2.4	0.31	0.00	0.00	0.00	0.00
4	0.00	0.00	---	---	---	---	2.1	0.27	0.00	0.00	0.00	0.00
5	0.00	0.00	---	---	---	---	1.2	0.25	0.00	0.00	0.00	0.00
6	0.00	---	---	---	---	---	1.7	0.22	0.00	0.00	0.00	0.00
7	0.00	---	---	---	---	---	2.7	0.18	0.00	0.00	0.00	0.00
8	0.00	---	---	---	---	---	3.2	0.16	0.00	0.00	0.00	0.00
9	0.00	---	---	---	---	---	2.5	0.16	0.00	0.00	0.00	0.00
10	0.00	---	---	---	---	---	2.4	0.12	0.00	0.00	0.00	0.00
11	0.00	---	---	---	---	---	2.2	0.11	0.00	0.00	0.00	0.00
12	0.00	---	---	---	---	---	1.2	0.11	0.00	0.00	0.00	0.00
13	0.00	---	---	---	---	---	0.54	0.09	0.00	0.00	0.00	0.00
14	0.00	---	---	---	---	---	1.0	0.09	0.00	0.00	0.00	0.00
15	0.00	---	---	---	---	---	2.4	0.05	0.00	0.11	0.00	0.00
16	0.00	---	---	---	---	---	1.5	0.04	0.00	0.02	0.00	0.00
17	0.00	---	---	---	---	---	1.0	0.03	0.00	0.08	0.00	0.00
18	0.00	---	---	---	---	0.00	0.73	0.01	0.00	0.01	0.00	0.00
19	0.00	---	---	---	---	0.00	0.61	0.00	0.00	0.00	0.00	0.00
20	0.00	---	---	---	---	0.00	0.58	0.00	0.00	0.00	0.00	0.00
21	0.00	---	---	---	---	0.18	0.54	0.00	0.00	0.00	0.00	0.00
22	0.00	---	---	---	---	0.35	0.52	0.00	0.00	0.00	0.00	0.00
23	0.00	---	---	---	---	0.39	0.55	0.00	0.00	0.00	0.00	0.00
24	0.00	---	---	---	---	0.37	0.51	0.00	0.00	0.00	0.00	0.00
25	0.00	---	---	---	---	0.35	0.46	0.00	0.00	0.07	0.00	0.00
26	0.00	---	---	---	---	0.34	0.44	0.00	0.00	0.04	0.00	0.00
27	0.00	---	---	---	---	0.32	0.40	0.00	0.00	0.04	0.00	0.00
28	0.00	---	---	---	---	0.32	0.44	0.00	0.00	0.04	0.00	0.00
29	0.00	---	---	---	---	0.32	0.42	0.00	0.00	0.02	0.00	0.00
30	0.00	---	---	---	---	0.29	0.43	0.00	0.00	0.01	0.00	0.00
31	0.00	---	---	---	---	0.28	---	0.00	---	0.00	0.00	---
TOTAL	0.00	---	---	---	---	---	35.55	2.95	0.00	0.44	0.00	0.00
MEAN	0.00	---	---	---	---	---	1.19	0.10	0.00	0.01	0.00	0.00
MAX	0.00	---	---	---	---	---	3.2	0.41	0.00	0.11	0.00	0.00
MIN	0.00	---	---	---	---	---	0.27	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	---	---	---	---	---	71	5.9	0.00	0.9	0.00	0.00

09442956 THOMASON FLAT DITCH NEAR GLENWOOD, NM

LOCATION.--Lat 33°25'54", long 108°55'54", in NW ¼ NW ¼ NW ¼ sec.20, T.10 S., R.20 W., Catron County, Hydrologic Unit 15040004, on right bank 3.7 mi northwest of Alma, and 11 mi north of Glenwood.

PERIOD OF RECORD.--October 1999 to current year (irrigation season only).

GAGE.--Water-stage recorder with Parshall flume. Elevation of gage is 4,860 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	0.58	---	---	---	---	2.2	2.1	1.8	2.6	6.3	0.00
2	2.5	0.34	---	---	---	---	4.1	1.9	1.7	2.8	9.0	0.00
3	2.7	0.24	---	---	---	---	4.2	3.0	1.6	3.5	8.8	0.24
4	2.6	0.20	---	---	---	---	3.3	3.3	1.5	3.6	6.8	0.01
5	2.6	0.21	---	---	---	---	4.1	2.6	0.71	2.9	4.6	0.00
6	2.6	---	---	---	---	---	4.6	1.6	0.00	1.9	3.7	0.38
7	2.6	---	---	---	---	---	4.7	1.1	0.00	1.9	3.2	1.8
8	2.1	---	---	---	---	---	4.9	0.66	0.00	1.8	2.4	2.0
9	0.89	---	---	---	---	---	3.6	0.38	0.00	2.7	2.0	1.8
10	0.95	---	---	---	---	---	0.09	2.5	0.00	3.5	2.6	2.0
11	1.1	---	---	---	---	---	0.48	4.9	0.05	4.3	1.1	1.9
12	1.2	---	---	---	---	---	1.1	5.1	1.0	4.7	0.68	2.6
13	1.3	---	---	---	---	---	0.43	5.0	0.92	5.1	1.3	4.0
14	1.1	---	---	---	---	---	0.00	4.8	0.99	4.5	1.6	4.8
15	1.5	---	---	---	---	---	0.00	4.8	2.1	4.1	0.00	5.3
16	1.6	---	---	---	---	---	0.00	4.9	2.3	3.8	0.00	5.4
17	0.98	---	---	---	---	---	2.4	4.8	2.6	3.1	0.42	5.5
18	0.89	---	---	---	---	5.1	4.5	4.6	2.4	3.3	0.00	5.8
19	0.78	---	---	---	---	4.4	3.4	4.2	2.1	3.5	0.00	6.9
20	0.57	---	---	---	---	4.2	2.5	3.8	1.9	4.1	0.00	6.9
21	0.69	---	---	---	---	4.4	2.0	3.3	1.9	5.0	0.00	6.7
22	1.6	---	---	---	---	4.0	0.97	2.9	2.1	5.2	0.00	6.7
23	2.0	---	---	---	---	3.9	0.40	2.9	2.4	6.2	0.00	6.7
24	5.0	---	---	---	---	4.3	0.23	2.7	2.8	7.1	0.00	6.9
25	6.2	---	---	---	---	3.4	0.11	2.7	3.1	6.2	0.00	7.1
26	5.8	---	---	---	---	2.2	0.03	2.7	3.0	4.0	0.00	6.1
27	5.8	---	---	---	---	1.7	0.00	3.0	3.3	4.2	0.00	5.4
28	5.4	---	---	---	---	1.4	1.0	2.6	3.8	4.8	0.00	5.4
29	5.3	---	---	---	---	0.94	2.4	2.3	5.6	4.7	0.00	5.3
30	4.8	---	---	---	---	0.77	2.3	2.1	3.3	4.4	0.00	4.8
31	3.9	---	---	---	---	1.1	---	2.0	---	4.6	0.00	---
TOTAL	79.65	---	---	---	---	---	60.04	95.24	54.97	124.1	54.50	118.43
MEAN	2.57	---	---	---	---	---	2.00	3.07	1.83	4.00	1.76	3.95
MAX	6.2	---	---	---	---	---	4.9	5.1	5.6	7.1	9.0	7.1
MIN	0.57	---	---	---	---	---	0.00	0.38	0.00	1.8	0.00	0.00
AC-FT	158	---	---	---	---	---	119	189	109	246	108	235

09442958 SPURGEON #2 DITCH NEAR GLENWOOD, NM

LOCATION.--Lat 33°26'57", long 108°55'43", in SW ¼ SE ¼ NW ¼ sec.8, T.10 S., R.20 W., Catron County, Hydrologic Unit 15040004, on right bank ¼ mi downstream from ditch heading and U.S. 180 Highway bridge over San Francisco River, 5.3 mi north of village of Alma, and 11.5 mi north of Glenwood.

PERIOD OF RECORD.--March 2003 to current year (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 4,995 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	0.00	---	---	---	---	2.9	5.6	3.1	3.0	5.3	0.00
2	2.6	0.00	---	---	---	---	5.6	5.4	3.1	3.0	5.9	0.00
3	3.4	0.00	---	---	---	---	6.5	5.5	3.1	3.0	4.7	0.00
4	3.9	0.00	---	---	---	---	7.6	5.1	3.1	3.0	0.00	0.00
5	3.9	0.00	---	---	---	---	8.9	4.8	3.1	2.9	0.00	0.00
6	3.7	---	---	---	---	---	9.4	4.3	3.1	2.8	0.00	0.00
7	3.7	---	---	---	---	---	11	4.0	3.1	2.9	0.00	0.00
8	5.3	---	---	---	---	---	12	3.7	3.0	3.0	0.00	0.00
9	6.0	---	---	---	---	---	0.01	3.5	3.2	3.5	0.00	0.00
10	5.8	---	---	---	---	---	0.00	3.5	3.2	3.5	0.00	0.00
11	5.7	---	---	---	---	---	0.00	3.5	3.4	3.8	1.8	0.00
12	5.8	---	---	---	---	---	0.00	3.4	3.4	4.0	5.5	0.00
13	5.7	---	---	---	---	---	0.00	3.3	3.4	3.8	6.4	0.00
14	5.4	---	---	---	---	---	0.00	3.1	3.1	3.8	6.5	0.00
15	5.5	---	---	---	---	---	0.00	3.0	2.1	4.0	6.5	0.00
16	5.4	---	---	---	---	---	0.00	3.1	2.1	3.9	6.7	0.00
17	5.2	---	---	---	---	---	0.00	3.1	2.2	3.6	7.1	0.00
18	5.1	---	---	---	---	0.00	0.00	3.0	2.2	3.7	7.0	0.00
19	5.2	---	---	---	---	0.00	0.00	3.2	2.2	3.9	6.8	0.00
20	5.1	---	---	---	---	0.00	0.00	3.4	2.1	4.1	6.5	0.00
21	4.9	---	---	---	---	0.00	0.00	3.3	2.1	4.3	6.4	0.00
22	4.8	---	---	---	---	0.00	4.7	3.3	2.2	4.5	6.7	0.00
23	4.8	---	---	---	---	0.00	7.9	3.5	2.4	4.8	6.7	0.00
24	2.2	---	---	---	---	0.00	7.4	3.5	2.6	5.0	7.0	0.00
25	0.00	---	---	---	---	0.00	6.9	3.4	2.6	4.9	7.1	0.00
26	0.00	---	---	---	---	0.00	6.5	3.5	2.6	5.0	6.6	0.00
27	0.00	---	---	---	---	0.00	6.2	3.9	2.5	5.1	6.6	0.00
28	0.00	---	---	---	---	0.00	5.9	3.5	3.0	5.2	6.4	0.00
29	0.00	---	---	---	---	0.00	5.8	3.2	3.8	5.1	6.1	0.00
30	0.00	---	---	---	---	0.00	5.8	3.1	3.3	5.0	4.4	0.00
31	0.00	---	---	---	---	0.00	---	3.1	---	5.1	0.00	---
TOTAL	111.20	---	---	---	---	---	121.01	114.8	84.4	123.2	140.70	0.00
MEAN	3.59	---	---	---	---	---	4.03	3.70	2.81	3.97	4.54	0.00
MAX	6.0	---	---	---	---	---	12	5.6	3.8	5.2	7.1	0.00
MIN	0.00	---	---	---	---	---	0.00	3.0	2.1	2.8	0.00	0.00
AC-FT	221	---	---	---	---	---	240	228	167	244	279	0.00

09442960 W.S. DITCH NEAR GLENWOOD, NM

LOCATION.--Lat 33°24'40", long 108°54'57", in SE ¼ NE ¼ NW ¼, sec.29, T.10 S., R.20 W., Catron County, Hydrologic Unit 15040004, on left bank 2.0 mi northwest of Alma, and 7.0 mi north of Glenwood.

PERIOD OF RECORD.--October 1999 to current year (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 4,650 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	2.5	---	---	---	---	0.97	6.3	3.7	5.1	5.8	5.0
2	4.1	2.5	---	---	---	---	0.39	5.2	4.3	4.9	5.7	5.1
3	4.4	2.6	---	---	---	---	0.35	6.1	4.6	4.9	6.3	5.2
4	4.6	2.8	---	---	---	---	0.35	5.3	4.7	4.9	5.3	4.9
5	4.7	2.9	---	---	---	---	0.34	4.2	5.4	4.7	0.72	4.4
6	4.8	---	---	---	---	---	0.33	4.4	6.0	4.8	1.4	4.3
7	5.1	---	---	---	---	---	0.32	8.8	6.1	4.8	1.3	4.3
8	6.3	---	---	---	---	---	0.32	9.1	5.7	4.9	1.3	4.1
9	5.5	---	---	---	---	---	0.31	9.1	5.6	5.2	1.1	4.1
10	5.3	---	---	---	---	---	0.30	7.1	5.8	5.0	1.1	4.4
11	5.2	---	---	---	---	---	0.29	6.4	5.8	5.1	1.0	4.0
12	5.1	---	---	---	---	---	0.28	6.7	4.2	5.2	1.8	3.4
13	5.1	---	---	---	---	---	0.27	5.0	3.7	5.1	6.3	3.6
14	4.9	---	---	---	---	---	0.26	4.9	3.7	5.0	7.6	4.6
15	4.9	---	---	---	---	---	0.25	5.5	3.7	4.9	6.4	4.6
16	4.9	---	---	---	---	---	e0.40	5.4	3.7	3.6	6.4	4.6
17	5.0	---	---	---	---	2.6	e0.95	5.2	3.6	4.0	6.7	4.7
18	4.8	---	---	---	---	2.9	2.1	5.2	3.6	4.5	6.3	5.2
19	4.9	---	---	---	---	3.2	2.1	5.4	3.7	4.5	6.0	6.7
20	4.9	---	---	---	---	2.8	2.1	5.6	3.9	4.7	5.9	6.5
21	4.7	---	---	---	---	2.3	2.0	5.7	3.9	4.9	5.9	5.6
22	4.8	---	---	---	---	2.3	2.1	5.2	5.1	5.0	5.7	5.3
23	4.7	---	---	---	---	2.3	2.9	5.1	5.7	7.2	5.2	5.0
24	4.8	---	---	---	---	2.3	3.5	4.4	6.0	7.1	4.7	5.0
25	5.0	---	---	---	---	2.5	6.2	5.8	4.9	6.3	5.1	5.0
26	4.3	---	---	---	---	1.5	11	6.5	4.6	6.7	5.2	5.2
27	3.6	---	---	---	---	1.4	9.9	5.2	4.8	6.8	5.2	4.5
28	2.4	---	---	---	---	1.4	7.0	4.6	5.1	6.9	5.1	5.9
29	2.5	---	---	---	---	1.5	7.1	4.4	5.8	6.8	5.0	6.3
30	2.3	---	---	---	---	1.3	7.2	4.0	5.5	6.5	5.1	4.7
31	2.3	---	---	---	---	1.3	---	3.8	---	6.1	5.9	---
TOTAL	140.1	---	---	---	---	---	71.88	175.6	142.9	166.1	142.52	146.2
MEAN	4.52	---	---	---	---	---	2.40	5.66	4.76	5.36	4.60	4.87
MAX	6.3	--	---	---	---	--	11	9.1	6.1	7.2	7.6	6.7
MIN	2.3	--	---	---	---	--	0.25	3.8	3.6	3.6	0.72	3.4
AC-FT	278	---	---	---	---	---	143	348	283	329	283	290

e Estimated

09443900 FISH POND DITCH ABOVE HATCHERY AT GLENWOOD, NM

LOCATION.--Lat 33°19'21", long 108°52'38", in NW ¼ NE ¼ NW ¼ sec.26, T.11 S., R.20 W., Catron County, Hydrologic Unit 15040004, on right bank at the New Mexico Glenwood Fish Hatchery, in Glenwood.

PERIOD OF RECORD.--May 2002 to current year (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 4,710 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	1.8	---	---	---	---	4.5	6.9	6.3	2.9	1.8	2.3
2	2.0	1.6	---	---	---	---	4.7	7.0	6.2	2.7	1.9	2.3
3	1.8	1.4	---	---	---	---	4.7	7.2	6.3	2.9	1.9	2.3
4	1.7	1.3	---	---	---	---	4.8	7.3	6.3	2.8	2.6	2.3
5	1.7	1.2	---	---	---	---	4.8	7.4	6.3	2.7	2.6	2.1
6	1.7	---	---	---	---	---	4.9	7.4	6.2	2.5	2.6	2.2
7	1.8	---	---	---	---	---	5.0	7.3	6.2	2.3	3.2	1.9
8	1.9	---	---	---	---	---	5.0	7.3	6.3	2.2	3.4	1.7
9	2.0	---	---	---	---	---	5.1	7.1	6.4	2.2	3.2	1.9
10	2.1	---	---	---	---	---	5.2	7.2	6.2	2.2	3.2	2.1
11	2.1	---	---	---	---	---	5.2	7.2	5.8	2.1	3.3	2.3
12	2.1	---	---	---	---	---	5.3	7.1	5.5	2.2	3.5	2.4
13	2.1	---	---	---	---	---	5.4	7.1	5.1	2.1	3.6	2.5
14	2.1	---	---	---	---	---	5.5	7.0	4.8	2.1	3.6	2.5
15	2.1	---	---	---	---	---	5.6	7.0	4.5	2.0	3.6	2.7
16	2.1	---	---	---	---	---	5.7	6.9	4.2	1.9	2.6	2.7
17	2.2	---	---	---	---	---	5.7	6.9	4.0	1.7	2.4	2.6
18	2.4	---	---	---	---	4.0	5.8	6.9	3.7	1.7	2.4	2.7
19	2.5	---	---	---	---	3.8	5.9	6.8	3.5	1.5	2.4	2.7
20	2.3	---	---	---	---	3.6	6.0	6.8	3.3	1.6	2.8	2.7
21	2.2	---	---	---	---	3.6	6.1	6.7	3.2	1.6	2.6	2.6
22	2.2	---	---	---	---	3.6	6.2	6.7	3.1	1.5	2.2	2.4
23	2.3	---	---	---	---	3.7	6.3	6.7	2.9	1.6	2.4	2.3
24	2.4	---	---	---	---	3.7	6.4	6.6	2.9	1.7	2.6	2.2
25	2.4	---	---	---	---	3.8	6.5	6.6	2.9	1.8	2.6	2.1
26	2.5	---	---	---	---	3.9	6.6	6.5	3.0	1.9	2.4	2.0
27	2.2	---	---	---	---	4.0	6.7	6.5	3.0	2.0	2.3	1.7
28	2.0	---	---	---	---	4.0	6.8	6.4	3.0	2.0	2.2	1.6
29	1.9	---	---	---	---	4.2	6.9	6.4	3.1	2.0	2.1	1.8
30	2.1	---	---	---	---	4.4	6.9	6.4	3.0	1.9	2.1	1.8
31	2.1	---	---	---	---	4.5	---	6.3	---	1.9	2.1	---
TOTAL	65.1	---	---	---	---	---	170.2	213.6	137.2	64.2	82.2	67.4
MEAN	2.10	---	---	---	---	---	5.67	6.89	4.57	2.07	2.65	2.25
MAX	2.5	--	---	---	---	--	6.9	7.4	6.4	2.9	3.6	2.7
MIN	1.7	--	---	---	---	--	4.5	6.3	2.9	1.5	1.8	1.6
AC-FT	129	---	---	---	---	---	338	424	272	127	163	134

09443938 EAST PLEASANTON DITCH NEAR GLENWOOD, NM

LOCATION.--Lat 33°17'36", long 108°53'25", in SE ¼ SW ¼ SE ¼, 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, and 1.5 mi south of Glenwood.

PERIOD OF RECORD.--October 1999 to current year (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 4,650 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	5.5	---	---	---	---	7.8	6.5	8.9	5.7	11	9.9
2	7.0	5.6	---	---	---	---	7.8	6.3	8.8	5.9	12	9.9
3	7.5	5.3	---	---	---	---	8.1	6.4	8.7	5.7	12	9.8
4	7.4	5.1	---	---	---	---	8.4	6.4	8.8	5.6	12	10
5	7.3	5.4	---	---	---	---	8.9	6.4	8.7	6.3	12	9.7
6	7.2	---	---	---	---	---	8.9	6.4	8.8	6.1	11	9.6
7	7.3	---	---	---	---	---	8.9	6.4	8.8	5.4	11	9.4
8	7.7	---	---	---	---	---	9.1	6.3	8.8	5.0	12	9.4
9	7.8	---	---	---	---	---	9.4	6.2	8.7	6.0	11	e9.3
10	7.7	---	---	---	---	---	9.5	7.2	8.9	8.0	12	e9.1
11	7.6	---	---	---	---	---	9.7	8.0	8.7	6.5	11	9.1
12	7.7	---	---	---	---	---	10	8.3	8.6	7.7	9.8	9.1
13	7.3	---	---	---	---	---	9.8	8.5	8.7	7.9	9.0	9.2
14	4.4	---	---	---	---	---	9.4	8.4	8.7	7.0	9.0	9.2
15	4.5	---	---	---	---	---	9.2	8.4	8.5	6.7	9.6	9.2
16	4.1	---	---	---	---	---	8.9	8.5	8.5	6.2	11	9.2
17	3.8	---	---	---	---	---	8.8	8.6	8.4	5.7	11	9.2
18	4.1	---	---	---	---	---	8.7	8.6	8.4	5.8	11	9.4
19	4.2	---	---	---	---	4.7	8.6	8.6	8.8	8.5	10	9.5
20	4.2	---	---	---	---	4.7	8.5	8.6	8.8	10	11	9.4
21	4.5	---	---	---	---	4.7	8.3	8.6	8.8	10	11	9.3
22	4.6	---	---	---	---	4.9	8.1	8.5	9.0	10	10	9.3
23	4.2	---	---	---	---	4.9	7.8	8.5	9.0	11	9.5	9.3
24	4.7	---	---	---	---	6.3	7.6	8.5	9.1	11	10	9.3
25	5.4	---	---	---	---	8.3	7.5	8.5	8.6	11	10	9.3
26	5.6	---	---	---	---	8.2	7.4	8.5	9.0	11	10	9.3
27	5.8	---	---	---	---	8.1	7.4	8.5	9.0	11	10	8.5
28	5.4	---	---	---	---	8.0	7.2	8.5	8.1	11	9.9	6.5
29	5.2	---	---	---	---	8.0	6.8	8.4	7.3	11	9.8	7.0
30	4.9	---	---	---	---	7.9	6.5	8.6	7.3	11	10	6.4
31	5.8	---	---	---	---	7.9	---	9.4	---	11	10	---
TOTAL	181.5	---	---	---	---	---	253.0	243.5	259.2	250.7	328.6	272.8
MEAN	5.85	---	---	---	---	---	8.43	7.85	8.64	8.09	10.6	9.09
MAX	7.8	--	---	---	---	--	10	9.4	9.1	11	12	10
MIN	3.8	--	---	---	---	--	6.5	6.2	7.3	5.0	9.0	6.4
AC-FT	360	---	---	---	---	---	502	483	514	497	652	541

e Estimated

09444000 SAN FRANCISCO RIVER NEAR GLENWOOD, NM

LOCATION.--Lat 33°14'48", long 108°52'47", in NE $^1/_4$ NW $^1/_4$ sec.23, T.12 S., R.20 W., Catron County, Hydrologic Unit 15040004, on left bank 0.2 mi upstream from hot springs, 5 mi south of Glenwood, 6 mi downstream from White Water Creek, and at mile 511.5.

DRAINAGE AREA.--1,653 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1213: 1931, 1934, 1936-37, 1940-42, 1943-44(M), 1945-47. WSP 1283: drainage area. WDR NM-78-1: 1977. WDR NM-79-1: 1973, 1975-77(P).

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 4,560 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Feb. 15, 1934, at site 4.5 mi upstream at datum 98.82 ft higher.

REMARKS.--Records 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	18	24	20	25	20	53	56	31	18	14	16
2	6.5	20	23	20	25	20	56	52	29	17	17	17
3	7.3	21	22	20	26	20	69	50	28	17	16	17
4	7.4	22	23	21	26	24	84	49	29	18	71	35
5	6.5	24	23	24	27	29	100	50	29	18	44	27
6	6.8	23	24	21	26	25	104	49	26	18	36	22
7	7.3	23	24	20	26	22	114	49	25	17	30	22
8	17	23	27	22	27	21	130	50	25	16	33	18
9	18	23	26	21	26	28	160	51	27	17	26	19
10	11	26	24	22	26	36	186	51	27	15	50	20
11	12	28	26	21	26	36	231	50	26	16	31	20
12	12	30	26	22	26	38	277	50	23	17	24	22
13	10	165	27	23	25	41	283	49	24	17	22	25
14	10	89	26	24	25	44	246	46	25	17	22	24
15	9.9	51	25	29	25	51	212	44	24	17	22	23
16	9.9	37	26	25	24	63	182	43	23	17	22	25
17	9.9	30	27	25	24	73	155	42	22	16	22	23
18	11	24	26	24	24	73	141	42	20	16	21	26
19	11	24	25	24	24	73	133	40	23	14	22	33
20	11	23	24	23	24	73	119	39	22	12	21	31
21	12	22	26	24	23	74	108	39	21	11	20	26
22	13	22	26	24	22	81	96	38	21	11	17	26
23	13	21	25	23	23	83	84	38	20	13	16	26
24	14	24	25	26	22	84	74	37	22	17	17	27
25	15	23	25	26	21	82	68	37	23	18	18	28
26	15	22	23	26	21	78	61	38	22	18	19	28
27	17	23	20	25	21	72	58	37	21	16	16	27
28	16	23	22	25	22	66	59	37	20	15	15	26
29	16	24	23	25	21	61	58	34	19	15	16	40
30	17	24	20	25	---	56	57	34	20	14	15	26
31	18	---	20	25	---	53	---	32	---	13	16	---
TOTAL	367.3	952	753	725	703	1,600	3,758	1,353	717	491	751	745
MEAN	11.8	31.7	24.3	23.4	24.2	51.6	125	43.6	23.9	15.8	24.2	24.8
MAX	18	165	27	29	27	84	283	56	31	18	71	40
MIN	6.5	18	20	20	21	20	53	32	19	11	14	16
AC-FT	729	1,890	1,490	1,440	1,390	3,170	7,450	2,680	1,420	974	1,490	1,480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2004, BY WATER YEAR (WY)

MEAN	87.4	53.1	83.5	95.7	122	189	141	73.9	28.2	36.5	74.8	60.9
MAX	2,026	520	1,068	1,568	1,034	1,036	1,049	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	10.3	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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1928 - 2004	
ANNUAL TOTAL	11,255.5		12,915.3			
ANNUAL MEAN	30.8		35.3		87.1	
HIGHEST ANNUAL MEAN					351	1979
LOWEST ANNUAL MEAN					13.9	1956
HIGHEST DAILY MEAN	177	Mar 25	283	Apr 13	27,500	Oct 2, 1983
LOWEST DAILY MEAN	6.5	Oct 2	6.5	Oct 2	2.5	Jun 25, 1956
ANNUAL SEVEN-DAY MINIMUM	6.9	Sep 30	6.9	Oct 1	3.9	Jun 22, 1956
MAXIMUM PEAK FLOW			553	Nov 13	a37,100	Oct 2, 1983
MAXIMUM PEAK STAGE			5.71	Nov 13	b18.15	Oct 2, 1983
INSTANTANEOUS LOW FLOW			5.9	Oct 5	1.5	Dec 3, 1906
ANNUAL RUNOFF (AC-FT)	22,330		25,620		63,070	
10 PERCENT EXCEEDS	58		68		168	
50 PERCENT EXCEEDS	25		24		31	
90 PERCENT EXCEEDS	13		15		15	

a From rating curve extended above 4,200 ft^3/s, on basis of slope-area measurement at gage heights 10.74 ft, 15.60 ft, and 20.80 ft.
b 20.80 ft outside floodmarks.

09444000 SAN FRANCISCO RIVER NEAR GLENWOOD, NM—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-85, 1999 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
JAN													
13...	1520	24	650	10.0	114	8.1	371	18.0	14.0	160	44.3	11.8	2.18
MAR													
16...	1450	64	646	8.6	107	8.2	275	25.5	17.5	110	31.8	8.11	1.99
MAY													
19...	0910	43	647	7.8	90	7.7	295	18.0	14.5	120	34.7	8.35	1.81
JUL													
28...	0850	15	647	6.0	75	7.8	393	21.5	18.0	170	47.0	11.7	2.31

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)
JAN													
13...	.7	21.6	184	222	6.81	.4	36.1	8.4	241	<.20	<.20	<.01	.02
MAR													
16...	.7	17.6	127	153	5.40	.4	34.3	10.1	185	--	--	--	--
MAY													
19...	.7	17.4	139	168	5.42	.4	31.6	7.1	189	--	--	--	--
JUL													
28...	.7	21.9	186	225	6.57	.4	36.5	8.7	245	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)
JAN													
13...	.13	<.010	.03	.04	.09	M	<.20	E1	11	<.06	22	<.04	E.4
MAR													
16...	--	--	--	--	--	--	--	--	--	--	18	--	--
MAY													
19...	--	--	--	--	--	--	--	--	--	--	19	--	--
JUL													
28...	--	--	--	--	--	--	--	--	--	--	23	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Manganese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recoverable, ug/L (71900)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Selenium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)
JAN													
13...	.234	.4	<6	<.08	25.9	<.02	E.4	.89	<3	<3	<.2	<.6	2.25
MAR													
16...	--	--	E4	--	--	E.01	--	--	--	<3	--	--	--
MAY													
19...	--	--	<6	--	--	<.02	--	--	--	<3	--	--	--
JUL													
28...	--	--	<6	--	--	<.02	--	--	--	<3	--	--	--

09444000 SAN FRANCISCO RIVER NEAR GLENWOOD, NM—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)
JAN		
13...	90	50
MAR		
16...	83	174
MAY		
19...	98	12
JUL		
28...	76	5

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

Because 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 flood-flow 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 2004			Period of record		
			Date	Gage height (ft)	Maximum discharge (ft^3/s)	Date	Gage height (ft)	Maximum 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-	08-21-04	5.47	2,000	07-06-58	12.22	15,600
Raton Creek at Raton (07201000)	Lat 36°54'21", long 104°26'09", 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-	08-06-04 - -03 06-14-02	6.78 [h]1.17 [h]1.98	2,240 [h]<205 [h]500	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-	08-06-04	5.66	131	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-	09-20-04	1.86	22	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-	09-19-04 09-03-03	8.91 7.98	1,250 [h]680	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-	09-19-04	2.45	[190]	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-	09-19-04	2.49	550	09-11-65	12.00	14,100
Garita Creek tributary near Variadero (07222800)	Lat 35°20'10", long 104°21'50", San Miguel County, Hydrologic Unit 11080005, 1.2 mi upstream from mouth, and 6.3 mi southeast of Variadero. Drainage area is 12.0 mi^2.	1971-96[g] 1999-	06-20-04	11.95	1,760	08-29-77	17.37	7,020
Pajarito Creek at Newkirk (07225000)	Lat 35°04'20", long 104°14'50", Guadalupe County, downstream side of bridge on U.S. Highway 66, 1 mi east of Newkirk. Drainage area is 55.0 mi^2.	1954-95[g] 1999-	10-07-03	8.19	3,280	07-16-81	8.01	3,500
Bluewater Creek near Tucumcari (07225300)	Lat 35°08'31", long 103°47'32", Quay County, in Tucumcari Metropolitan Park, 1,600 ft north of the park's southern boundary, and 4.8 mi southwest of Tucumcari. Drainage area is 15.2 mi^2.	1971-96[g] 1999-	09-22-04 [h]05-01-99	9.80 [h]11.35	891 [h]1,740	08-11-81	12.71	[c]2,350
Bueyeros Creek at Bueyeros (07226200)	Lat 35°58'10", long 103°41'05", Harding County, on right upstream wingwall of culvert on State Road 102 at Bueyeros. Drainage area is [a]34.0 mi^2.	1957-96[g] 1999-	- -04	<3.50	<208	08-11-81	3.65	1,150

Station name and number	Location and drainage area	Period of record	Water year 2004			Period of record		
			Date	Gage height (ft)	Maximum discharge (ft^3/s)	Date	Gage height (ft)	Maximum discharge (ft^3/s)
		ARKANSAS RIVER BASIN--Continued						
Carrizo Creek near Roy (07226300)	Lat 36°02'58", long 103°57'48", Harding County, Hydrologic Unit 11080007, 800 ft downstream from State Highway 120, and 15 mi northeast of Roy. Drainage area is [a]68 mi^2.	1954-	09-19-04	4.39	482	08-11-81	[n]7.11	[n]1,800
Plaza Largo Creek tributary near Ragland (07227050)	Lat 34°48'29", long 103°45'35", Quay County, Hydrologic Unit 11080008, at culvert on State Highway 209, 1.2 mi northwest of Ragland. Drainage area is 0.36 mi^2.	1952-96[g] 1999-	09-22-04	5.69	535	07-16-58	12.70	1,170
Tramperos Creek near Stead (07227200)	Lat 36°04'15", long 103°12'10", in NW 1/2 NW 1/2 sec.10, T.21 N., R.35 E., Union County, Hydrologic Unit 11090102, at bridge on State Highway 402, 2.1 mi south of Stead, and 26 mi south of Clayton. Drainage area is [a]556 mi^2.	1966-73* 1974-	08-14-04	[d]9.10	3,150	10-17-65	16.5	12,300
Sand Draw near Clayton (07227300)	Lat 36°20'30", long 103°11'30", Union County, Hydrologic Unit 11090103, on downstream side of bridge on State Highway 402, 7.5 mi south of Clayton. Drainage area is [a]42.0 mi^2.	1953-96[g] 1999-	08-14-04	7.00	5,290	06--53	8.85	10,300
		BRAZOS RIVER BASIN						
Running Water Draw near Clovis (08080600)	Lat 34°31'50", long 103°11'59", Curry County, Hydrologic Unit 12050005, 0.25 mi upstream from State Highway 209, and 8 mi north of Clovis. Drainage area is 109 mi^2.	1953-56, 1957-64* 1965-	10-08-03	3.68	669	07-24-72	---	8,000
		RIO GRANDE BASIN						
Canjilon Creek above Abiquiu Reservoir (08286650)	Lat 36°18'55", long 106°29'05", Rio Arriba County, Hydrologic Unit 13020102, in Piedra Lumbre Grant, 300 ft upstream from bridge on U.S. Highway 84, 0.2 mi northwest of entrance to Ghost Ranch, and about 12 mi northwest of Abiquiu. Drainage area is 144 mi^2.	1965-	04-08-04	3.53	321	07-07-98	[d]11.56	4,620
Arroyo Seco tributary near Pojoaque (08293700)	Lat 35°56'33", long 106°01'12", Santa Fe County, Hydrologic Unit 13020101, upstream from culvert on U.S. Highway 84-285, 3.5 mi north of Pojoaque. Drainage area is 0.72 mi^2.	1971-96[g] 1999-	04-09-04 - -03	5.02 [h]<4.68	1 [h]<0.5	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, and 18.5 mi northwest of Santa Fe. Drainage area is 17.5 mi^2.	1963-69 1977-	09-26-04	2.53	42	07-21-78	6.34	[q]3,030
Bland Canyon near Cochiti Pueblo (08313400)	Lat 35°42'11", long 106°24'56", Sandoval County, Hydrologic Unit 13020201, 200 ft south of Forest Service Road, 0.3 mi inside Santa Fe National Forest, and 7.5 mi north of Cochiti Pueblo. Drainage area is 7.57 mi^2.	1962-	11-13-04	1.54	13	[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-	03-05-04	3.85	278	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-	04-03-04	6.29	1,590	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-	07-22-04	0.27	254	09-24-55	[n]12.95	10,800

Station name and number	Location and drainage area	Period of record	Water year 2004			Period of record		
			Date	Gage height (ft)	Maximum discharge (ft^3/s)	Date	Gage height (ft)	Maximum discharge (ft^3/s)
RIO GRANDE BASIN--Continued								
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-	- -04	<0.93	<15	07-20-71	1.33	44
Tijeras Arroyo at Albuquerque (08330500)	Lat 35°03'40", long 106°28'40", Bernalillo County, Hydrologic Unit 13020203, 300 ft south of old U.S. Highway 66, and 0.4 mi southeast of city limits of Albuquerque. Drainage area is 75.3 mi^2.	1943-48* 1958-	- -04	<1.83	<110	06-24-67	6.85	6,500
Canada Montoso near Scholle (08331650)	Lat 34°24'20", long 106°28'52", 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-	07-12-04	1.91	230	[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 13020204, on downstream side of bridge on State Road 197, 0.5 mi southwest of State Highway 44, and 1.0 mi southwest of Cuba.	1997-	04-03-04	5.60	170	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-	07-27-04	1.49	3	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-	07-23-04	1.18	249	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-	08-04-04	1.31	113	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-	- -04	<1.51	<910	06-10-88	6.09	5,070
Alamosa Creek near Monticello (08360000)	Lat 33°34'09", long 107°35'33", Socorro County, Hydrologic Unit 13020211, on left bank at Alamosa damsite and downstream from Old Fort Ojo Caliente, just downstream from Wildhorse Creek, 15 mi northwest of Monticello. Drainage area is 403 mi^2.	1931-42* 1956-58 1958-71* 1973-95[g] 1997-	04-12-04	5.08	1,120	08-13-64	14.04	10,800
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-	08-17-04	3.11	510	08-06-99	[d]14.0	19,900
Aleman Draw at Aleman (08363200)	Lat 33°00'00", long 107°00'20", Sierra County, Hydrologic Unit 13030103, on Santa Fe Railroad bridge, 140 ft upstream from dip on Engle-Rincon Road, and 0.26 mi west of Aleman. Drainage area is 25.5 mi^2.	1959-96[g] 1999-	08-17-04	6.60	2,150	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-	- -04	<1.83	<1	[n]06-01-37	---	[n,c]20,000

Station name and number	Location and drainage area	Period of record	Water year 2004			Period of record		
			Date	Gage height (ft)	Maximum discharge (ft^3/s)	Date	Gage height (ft)	Maximum discharge (ft^3/s)
RIO GRANDE BASIN--Continued								
Sandoval Canyon at Gallinas (08380300)	Lat 35°41'13", long 105°21'30", 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-	06-18-04	2.33	262	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 mi southwest of Santa Rosa. Drainage area is 896 mi^2.	1959-86[g] 1996-	07-25-04	---	(m)	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-	07-24-04	---	(m)	08-23-87	15.89	2,000
Alamosa Creek tributary near Jordan (08385530)	Lat 34°47'43", 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-	04-03-04	1.59	9	07-11-72	6.86	2,850
Yeso Creek near Fort Sumner (08385600)	Lat 34°16'32", long 104°17'28", DeBaca County, Hydrologic Unit 13060003, at abandoned bridge 1 mi downstream from State Highway 20, and 14.5 mi south of Fort Sumner. Drainage area is 242 mi^2.	1937-95[g] 1997-	04-04-04	7.95	7,290	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 is 6.07 mi^2.	1961-96[g] 1999-	07-21-04	3.66	397	09-06-61	5.10	1,610
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-	07-21-04	4.71	659	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-	04-04-04	2.80	73	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-	04-04-04	5.06	242	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-	04-04-04	<4.59	<29	06-14-02	11.81	3,390
Eight Mile Draw near Roswell (08393900)	Lat 33°24'05", long 104°37'54", Chaves County, Hydrologic Unit 13060008, 6.5 mi west of Roswell. Drainage area is 397 mi^2.	1941 1952-	04-04-04	14.54	1,490	07-13-91	17.80	10,300
Twin Butte Canyon tributary near Roswell (08394300)	Lat 33°10'34", long 104°51'30", Chaves 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-	04-04-04	3.41	213	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-	07-26-04	8.45	4,030	05-30-65	13.70	16,400

Station name and number	Location and drainage area	Period of record	Water year 2004			Period of record		
			Date	Gage height (ft)	Maximum discharge (ft^3/s)	Date	Gage height (ft)	Maximum discharge (ft^3/s)
			RIO GRANDE BASIN--Continued					
Antelope Draw near Jal (08436000)	Lat 32°09'18", long 103°21'51", Lea County, Hydrologic Unit 13070007, 0.4 mi south of State Highway 128, and 10.7 mi west of Jal. Drainage area is [a]20 mi^2.	1963-96[g] 1999-	06-19-04	3.27	432	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-	07-26-04 - -03 - -02	1.15 [h]<1.00 [h]<1.00	135 [h]<94 [h]<94	09-13-99	5.55	6,500
Cameron Creek at Central (08478000)	Lat 32°47'38", long 108°08'58", Grant County, 0.5 mi upstream from culvert on U.S. Highway 260,at north edge of Central. Drainage area is 18.8 mi^2.	1954-95[g] 1999-	08-18-04	4.44	1,130	08-29-59	7.30	2,200
Mimbres River at Deming (08478500)	Lat 32°16'59", long 107°45'39", Luna County, Hydrologic Unit 13030202, at culvert on U.S. Highway 180, at north end of Deming. Drainage area is 1,370 mi^2.	1954-79, 1983-	08-04-04	9.65	1,720	[n]12-19-78	[n]5.91	[n]2,350
Seventy-Six Draw tributary near Waterloo (08478800)	Lat 31°56'34", long 107°44'38", Luna County, Hydrologic Unit 13030202, upstream from culvert on State Road 11, 3.9 mi southeast of Waterloo, and 7.9 mi north of Columbus. Drainage area is 0.2 mi^2.	1967-96[g] 1999-	08-18-04	3.83	77	06-27-00	8.20	290
			TULAROSA BASIN					
White Oaks Canyon near Carrizozo (08480150)	Lat 33°43'51", long 105°50'11", Lincoln County, Hydrologic Unit 13050003, 100 ft upstream from culvert on U.S. Highway 54, 6 mi north of Carrizozo. Drainage area is 31 mi^2.	1959 1961-	08-08-04	3.26	1,230	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-	08-04-04	2.87	7	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] 1998-	08-04-04	1.50	24	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-	09-30-04	7.95	965	07-14-91	12.08	3,000
Three Rivers at Three Rivers (08481000)	Lat 33°18'12", long 106°04'20", Otero County, Hydrologic Unit 13050003, on downstream side of bridge on State Highway 54, 1.3 mi south of Three Rivers. Drainage area is 96.0 mi^2.	1956-77[g] 2000-	07-21-04	5.57	886	08-15-67	[p]7.50	15,000
			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 [a]20 mi^2.	1962-96[g] 1999-	07-22-04	2.65	224	08-01-89	2.48	150
Canon de Torreon at Torreon (08488500)	Lat 34°43'22", long 106°17'52", Torrance County, Hydrologic Unit 13050001, at culvert on State Highway 55, in Torreon. Drainage area is 18.2 mi^2.	1954-96[g] 1999-	06-30-04	1.38	124	08-09-67	4.23	4,310
Big Draw near Mountainair (08489000)	Lat 34°23'59", long 106°11'56", 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-	06-03-04	4.59	141	09-25-54	8.68	1,710

Station name and number	Location and drainage area	Period of record	Water year 2004			Period of record		
			Date	Gage height (ft)	Maximum discharge (ft^3/s)	Date	Gage height (ft)	Maximum discharge (ft^3/s)
			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-	07-26-04	6.50	2,380	- -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-	- -04	---	[k]	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-	- -04	---	[k]	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-	04-12-04	2.80	135	08-02-65	10.37	2,520
Gobernador Canyon near Gobernador (09355700)	Lat 36°41'05", long 107°25'10", Rio Arriba County, Hydrologic Unit 14080101, 0.2 mi south of U.S. Highway 64, and 4 mi southwest of Gobernador. Drainage area is 19.8 mi^2.	1956-96[g] 1999-	04-05-04	1.14	78	08-06-63	9.30	3,450
Burro Canyon near Lindrith (09356520)	Lat 36°16'21", long 107°14'46", Rio Arriba County, Hydrologic Unit 14080103, upstream from culvert on State Highway 537, 11.5 mi west of Lindrith. Drainage area is 9.11 mi^2.	1970-96[g] 1999-	- -04	---	[k]	06-29-81	10.87	725
Chaco Wash at Chaco Culture National Monument (09367680)	Lat 36°01'43", long 107°55'04", San Juan County, Hydrologic Unit 14080106, on downstream side of center bridge pier, 800 ft downstream from Fajada Wash, and 0.5 mi southwest of Chaco Culture National Historical Park Visitors Center. Drainage area is 578 mi^2.	1976-90* 1991-	- -04	<3.28	<340	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-	07-27-04 [h]08-17-00 [h]07-26-99	2.92 [h]1.66 5.14	564 [h]142 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-	09-20-04	1.36	141	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-	- -04	---	[k]	08-06-54	4.70	1,320
Galestena Canyon tributary near Black Rock (09387050)	Lat 34°58'45", long 108°40'00", McKinley County, Hydrologic Unit 15020004, 100 ft downstream from bridge on State Highway 36, and 10.5 mi southeast of Black Rock. Drainage area is [a]19 mi^2.	1957-95[g] 1999-	11-13-03	1.55	45	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-	- -04	---	[k]	- -49	4.20	1,360

Station name and number	Location and drainage area	Period of record	Water year 2004			Period of record		
			Date	Gage height (ft)	Maximum discharge (ft^3/s)	Date	Gage height (ft)	Maximum discharge (ft^3/s)
			GILA RIVER BASIN					
Duck Creek at Cliff (09430900)	Lat 32°58'03", long 108°36'36", Grant County, Hydrologic Unit 15040002, at Cliff 100 ft downstream from bridge on State Highway 211, and 0.6 mi upstream from mouth. Drainage area is [a]228 mi^2.	1957-	09-26-04	1.81	209	01-18-93	11.76	7,400
Mangas Creek near Cliff (09431130)	Lat 32°51'39", long 108°34'01", Grant County, Hydrologic Unit 15040002, on right bank, about 0.5 mi upstream from U.S. Forest Service Road 806, in close proximity to Bill Evans Lake, 7 mi south of Cliff.	1986-	08-19-04	9.46	3,690	09-22-97	9.49	3,720
Animas Creek near Cloverdale (09438200)	Lat 31°34'15", long 108°52'30", Hidalgo County, near head of small box canyon 0.1 mi west of State Highway 338, and 11 mi north of Cloverdale. Drainage area is 157 mi^2.	1959-	09-26-04	6.62	2,010	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-	08-02-04	2.75	49	08-16-03	4.68	420
Trout Creek at Luna (09442660)	Lat 33°50'50", long 108°59'38", Catron County, Hydrologic Unit 15040004, 500 ft downstream from bridge on Luna-Red Hill Road, and 2.6 mi north of Luna. Drainage area is 31.9 mi^2.	1954-95[g] 1999-	10-08-03	1.64	103	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-	08-02-04	1.74	58	10-02-83	9.80	3,020
Steins Creek at Steins (09455800)	Lat 32°13'32", long 109°00'14", 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-	09-13-04	2.23	100	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.
q Record affected by fire.

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations are given in the following table.

Discharge measurements made at miscellaneous sites during water year 2004

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Lea Lake Drain (08394026) (formerly 08394018)	Pecos River	Lat 33°18'56", long 104°19'56", in SW 1/4 SE 1/4 SW 1/4 sec.34, T.11 S., R.26 E., Chaves County, Hydrologic Unit 13060007, on downstream side of road crossing at Bottomless Lakes State Park near Roswell.	---	1976-2003	10-02-03	13.6
					10-24-03	15.2
					10-24-03	14.5
					01-07-04	16.7
					02-03-04	16.4
					04-26-04	18.6
					05-06-04	15.2
					06-17-04	10.3
					07-06-04	9.80
					08-03-04	9.33
					08-30-04	9.51
Castle Springs (08405490)	Black River	Lat 32°11'59", long 104°15'13", in SW 1/4 SW 1/4 SW 1/4 sec.24, T.24 S., R.26 E., Eddy County, Hydrologic Unit 13060011, upstream from mouth at Black River Village, 7.2 mi east of Whites City.	---	1975-2003	02-06-04	1.63
Mangas Creek (09431100)	Gila River	Lat 32°50'48", long 108°30'57", in NW 1/4 NE 1/4 sec.8, T.17 S., R.16 W., Grant County, Hydrologic Unit 15040002, 0.4 mi northwest of Mangas Springs.	177	1989-2003	10-07-03	2.50
					02-09-04	3.35
					03-18-04	2.80
					06-10-04	4.10
					07-02-04	3.28
					09-10-04	2.28
					09-10-04	2.05

Rio Grande Seepage Investigation

REACH.--The seepage investigation was conducted along the 11.0-mile reach between the Fairview Lane Bridge in Espanola, New Mexico (Highway 68), and the gaging station Rio Grande at Otowi Bridge near San Ildefonso, New Mexico (08313000). River miles are referenced from the Rio Grande at El Paso, Texas, which is designated as river mile 0.0.

PREVIOUS INVESTIGATIONS.--None.

DATE.--September 29, 2004.

WEATHER.--Weather was favorable with no precipitation on September 29, 2004, during the seepage investigation. The mean daily temperature at Espanola, New Mexico, was 7 degrees Celsius on September 29, 2004, with a low of 1 degree Celsius and a high of 13 degrees Celsius.

STREAMFLOW.--The seepage investigation on September 29, 2002, was conducted during the non-irrigation season. Discharge measurements indicate a net seepage loss of about 5.0 ft^3/s from river mile 1625.1 to river mile 1614.2. This includes wastewater inflow with the reach of 1.5 ft^3/s and additional inflows of 6.7 ft^3/s from the Santa Cruz River and 2.4 ft^3/s from Vigiles irrigation ditch. Channel gain or loss includes seepage to or from the unlined river channel, evaporation from the water surface, and transpiration by vegetation along the channel banks.

REMARKS.--The seepage investigation conducted on September 29, 2004, is rated good based on steady streamflow conditions. Individual discharge measurements were rated good (within 5 percent) at both measurement sections. The seepage investigation is rated good based on steady reach inflow. Accuracy of discharge measurements needs to be considered when evaluating indicated gains and losses..

River mile	Stream	Location	Date	Time	Water temperature (^oC)	Specific conductance (µS/cm)	Discharge, in ft^3/s		
							Main stream	Inflow	Gain or loss
1614.2	Rio Grande	At Otowi Bridge Lat 35°52'35", long 106°08'24"	9-29-04	1256			485		
1614.2	Rio Grande	At Otowi Bridge Lat 35°52'35", long 106°08'24"	9-29-04	1348			480		
1614.2	Rio Grande	At Otowi Bridge Lat 35°52'35", long 106°08'24"	9-29-04	1526			469		
1614.2	Rio Grande	At Otowi Bridge Lat 35°52'35", long 106°08'24"	9-29-04	1614			497		
1614.2	Rio Grande	At Otowi Bridge Lat 35°52'35", long 106°08'24"	9-29-04	1730			477		
.	Santa Cruz River at Espanola	Below Highway 285 Bridge in Espanola Lat 35°59'21", long 106°04'06"	9-29-04					6.7	
	Espanola Wastewater inflow	Below Santa Cruz River Lat 35°59'09", long 106°04'29"	9-29-04	1200				1.5	
	Vigiles Ditch	Below Highway 84 at Espanola Lat 36°00'36", long 106°04'48"	9-29-04	1100				2.4	
1605.1	Rio Grande	Above Highway 84 Bridge at Espanola Lat 36°00'39", long 106°04'19"	9-29-04	1022			483		
1605.1	Rio Grande	Above Highway 84 Bridge at Espanola Lat 36°00'39", long 106°04'19"	9-29-04	1110			477		
1605.1	Rio Grande	Above Highway 84 Bridge at Espanola Lat 36°00'39", long 106°04'19"	9-29-04	1154			460		
1605.1	Rio Grande	Above Highway 84 Bridge at Espanola Lat 36°00'39", long 106°04'19"	9-29-04	1241			470		
1605.1	Rio Grande	Above Highway 84 Bridge at Espanola Lat 36°00'39", long 106°04'19"	9-29-04	1334			479		
1605.1	Rio Grande	Above Highway 84 Bridge at Espanola Lat 36°00'39", long 106°04'19"	9-29-04	1423			487		

Rio Grande Seepage Investigation

REACH.--The seepage investigation was conducted along a 62.4-mile reach from the Rio Grande below Leasburg Dam near Radium Springs, New Mexico, to the Rio Grande at El Paso, Texas (08364000). River miles are referenced upstream from the Rio Grande at El Paso, Texas, which is designated as river mile 1,249.9 (Hendricks, 1964).

PREVIOUS INVESTIGATIONS.--A seepage investigation from the gaging station "below Caballo Dam" (08362500) to a site 0.3 mi upstream from the gaging station "at El Paso" (08364000) was conducted by the U.S. Geological Survey on February 12-13, 1974. Seepage investigations from below Leasburg Dam near Radium Springs, New Mexico, to El Paso, Texas (08364000), were conducted on January 5-6, 1988, January 10-11, 1989, January 9-10, 1990, January 8-9, 1991, January 26-27, 1993, January 11-12, 1995, January 23-24, 1996, January 28-29, 1997, and January 27-28, 1998. A seepage investigation from below Leasburg Dam near Radium Springs, New Mexico, to NM-227 Bridge near Vado, New Mexico, was conducted on December 17, 1991.

DATE.--February 24-25, 2004.

WEATHER.--Weather was favorable with no precipitation during the seepage investigation. The mean daily temperature at Las Cruces, New Mexico, was 8 degrees Celsius on February 24 and 25, 2004, with a low of 1 degree Celsius on February 25 and a high of 14 degrees Celsius on February 25.

STREAMFLOW.--The seepage investigation was conducted during the non-irrigation season at low flow during drought conditions. Intermittent streamflow occurred along 27.5 of 62.4 river miles, with dry conditions observed along several extensive reaches. Discharge measurements indicate a net seepage loss of 17.2 cubic feet per second, with side-channel inflows of 26.8 cubic feet per second. 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 streambed, evaporation from the water surface, and transpiration by vegetation along the channel banks. Evaporation from the water surface and transpiration by vegetation in February are considered negligible.

REMARKS.--Recent drought conditions and decreasing reservoir storage resulted in a significant reduction in surface-water allocations during the previous 2003 irrigation season at 34 percent of full supply. Intermittent river flow occurred during the 2004 non-irrigation season, with drought conditions resulting in several dry reaches during the seepage investigation. Dry river conditions were observed from site 6A to site 9 (5.1 miles), from site 10A to site 18 (15.6 miles), from site 23A to site 24 (3.0 miles), and from site 25A to site 30 (11.2 miles).

Discharge measurements were conducted at 11 main-stream sites and 8 inflow sites; specific conductance and water temperature were measured at each site. Dry channel conditions were observed at 16 main-stream sites and 6 inflow sites. Individual discharge measurements were rated good (within 5 percent) throughout most of the stream reach. Individual discharge measurements were rated fair (within 8 percent) at site 2, site 19, and site 25, and were rated poor (over 8 percent) at site 31 due to poor channel conditions. Accuracy of discharge measurements needs to be considered when evaluating indicated gains and losses.

[µS/cm, microsiemens per centimeter at 25 degrees Celsius; ft^3/s, cubic feet per second; NM, New Mexico; --, no data or not applicable; TX, Texas]

Site number	River mile	Stream	Location	Time	Water temperature (^oC)	Specific conductance (µS/cm)	Discharge, in ft^3/s: Main stream	Discharge, in ft^3/s: Inflow	Discharge, in ft^3/s: Gain or loss
			February 24, 2004						
1	1,312.3	Rio Grande	Below Leasburg Dam, Radium Springs, NM Lat 32°28'41", long 106°55'10"	0835	7.0	2,230	2.12	--	--
2	1,310.2	Rio Grande	Near Leasburg, NM Lat 32°27'21", long 106°54'08"	1010	9.0	2,110	2.52	--	+0.40
3	1,307.6	Selden Drain	Near Leasburg, NM Lat 32°25'38", long 106°52'50"	1200	--	--	--	0	--
4	1,306.3	Rio Grande	Near Hill, NM Lat 32°25'05", long 106°52'01"	1115	11.0	2,260	3.93	--	+1.41
5	1,302.7	Rio Grande	At Shalem Bridge near Doña Ana, NM Lat 32°22'34", long 106°51'16"	1245	14.5	2,110	2.01	--	-1.92
6	1,301.2	Wasteway no. 5	Near Doña Ana, NM Lat 32°22'14", long 106°50'14"	1235	--	--	--	0	--
6A	1,300.5	Rio Grande	Below Wasteway no. 5 near Doña Ana, NM Lat 32°21'38", long 106°50'18"	1420	--	--	0	--	-2.01
7	1,298.8	Rio Grande	Near Picacho, NM Lat 32°20'18", long 106°50'09"	1300	--	--	0	--	--
8	1,295.6	Rio Grande	Below Picacho Bridge near Las Cruces, NM Lat 32°17'45", long 106°49'25"	1236	--	--	0	--	--
9	1,295.4	Wastewater inflow	City of Las Cruces, NM Lat 32°17'35", long 106°49'26"	1300	18.5	1,380	--	[1]14.1	--

Rio Grande Seepage Investigation--Continued

Site number	River mile	Stream	Location	Time	Water temperature (°C)	Specific conductance (µS/cm)	Discharge, in ft³/s: Main stream	Discharge, in ft³/s: Inflow	Discharge, in ft³/s: Gain or loss
10	1,293.1	Rio Grande	At NM-359 Bridge near Mesilla, NM Lat 32°15'49", long 106°49'29"	1415	16.0	1,370	7.85	--	-6.25
10A	1,292.2	Rio Grande	Below NM-359 Bridge near Mesilla, NM Lat 32°14'59", long 106°49'01"	1345	--	--	0	--	-7.85
11	1,291.8	Picacho Drain	Above Mesilla Dam near Mesilla, NM Lat 32°14'34", long 106°48'56"	1430	--	--	--	0	--
12	1,291.7	Rio Grande	Below Picacho Drain near Mesilla, NM Lat 32°14'30", long 106°48'49"	1440	--	--	0	--	--
13	1,289.5	Rio Grande	Below Mesilla Dam near Mesilla, NM Lat 32°13'17", long 106°47'15"	1400	--	--	0	--	--
14	1,287.3	Rio Grande	At NM-28 Bridge near San Pablo, NM Lat 32°12'24", long 106°45'32"	1420	--	--	0	--	--
15	1,283.6	Santo Tomas River Drain	Near San Miguel, NM Lat 32°10'16", long 106°43'11"	1510	--	--	--	0	--
16	1,282.7	Rio Grande	At NM-228 Bridge near San Miguel, NM Lat 32°09'43", long 106°42'58"	1515	--	--	0	--	--
17	1,277.8	Rio Grande	At NM-227 Bridge near Vado, NM Lat 32°06'48", long 106°40'05"	1530	--	--	0	--	--
			February 25, 2004						
17	1,277.8	Rio Grande	At NM-227 Bridge near Vado, NM Lat 32°06'48", long 106°40'05"	0800	--	--	0	--	--
18	1,276.6	Del Rio Drain	Near Vado, NM Lat 32°06'09", long 106°39'27"	0945	8.0	1,330	--	0.16	--
19	1,273.8	Rio Grande	At NM-226 Bridge near Berino, NM Lat 32°03'56", long 106°39'45"	0955	6.5	1,580	0.46	--	+0.30
20	1,271.6	La Mesa Drain	Near Chamberino, NM Lat 32°02'15", long 106°39'23"	0930	--	--	--	0	--
21	1,271.5	Rio Grande	Below La Mesa Drain near Chamberino, NM Lat 32°02'12", long 106°39'18"	1015	11.0	1,860	0.11	--	-0.35
22	1,268.5	Rio Grande	At NM-225 Bridge near Anthony, NM Lat 31°59'58", long 106°38'07"	1040	16.5	2,410	0.02	--	-0.09
23	1,268.5	Pipe inflow	At NM-225 Bridge near Anthony, NM Lat 31°59'58", long 106°38'07"	1110	14.0	1,780	--	0.19	--
23A	1,268.4	Rio Grande	Below NM-225 Bridge near Anthony, TX Lat 31°59'51", long 106°38'04"	--	--	--	0	--	-0.21
24	1,265.4	East Drain	Near Vinton, TX Lat 31°58'09", long 106°36'17"	1030	12.0	1,920	--	2.01	--
25	1,264.7	Rio Grande	At Vinton Bridge near Vinton, TX Lat 31°57'33", long 106°36'16"	1120	11.0	1,860	1.38	--	-0.63
25A	1,262.2	Rio Grande	Above TX-259 Bridge, Cañutillo, TX Lat 31°55'23", long 106°36'08"	--	--	--	0	--	-1.38
26	1,261.6	Rio Grande	At TX-259 Bridge, Cañutillo, TX Lat 31°54'54", long 106°36'06"	1145	--	--	0	--	--
27	1,259.3	Rio Grande	At Borderland Bridge near Borderland, TX Lat 31°53'09", long 106°35'55"	1200	--	--	0	--	--

Rio Grande Seepage Investigation--Continued

Site number	River mile	Stream	Location	Time	Water temperature (°C)	Specific conductance (µS/cm)	Discharge, in ft³/s: Main stream	Discharge, in ft³/s: Inflow	Discharge, in ft³/s: Gain or loss
28	1,256.2	Rio Grande	At TX-260 Bridge near Santa Teresa, NM Lat 31°50'46", long 106°36'18"	1215	--	--	0	--	--
29	1,252.8	Rio Grande	Near Sunland Park, NM Lat 31°48'24", long 106°34'57"	1200	--	--	0	--	--
30	1,251.0	Wastewater inflow	Sunland Plant, City of Sunland Park, NM Lat 31°47'55", long 106°33'25"	1530	20.5	2,040	--	[1]2.79	--
31	1,250.9	Rio Grande	At Sunland Park Bridge, Sunland Park, NM Lat 31°47'56", long 106°33'16"	1315	21.5	2,040	1.96	--	-0.83
32	1,250.3	Montoya Drain	Near Sunland Park, NM Lat 31°48'10", long 106°32'47"	1425	17.0	4,810	--	6.68	--
32A	1,250.2	El Paso Electric Discharge Inlet	Near Sunland Park, NM Lat 31°48'12", long 106°32'44"	1500	16.5	3,340	--	[1]0.90	--
33	1,250.1	Keystone Reservoir Inlet	Near El Paso, TX Lat 31°48'18", long 106°32'39"	1425	--	--	--	0	--
33A	1,250.0	Side-Channel Inlet	Above Courchesne Bridge near El Paso, TX Lat 31°48'13", long 106°32'28"	1515	15.5	4,290	--	0.01	--
34	1,249.9	Rio Grande	At Courchesne Bridge, El Paso, TX Lat 31°48'09", long 106°32'26"	1545	16.5	4,270	9.75	--	+2.16

[1]Reported discharge

RIO GRANDE BASIN—Continued

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 comparing results for the same group of analyses. Water-quality partial-record stations and water-quality miscellaneous sites are surface-water locations where chemical quality, biological, and/or sediment data are collected on a limited frequency over a short period of years or once only for use in hydrologic investigations.

RIO GRANDE BASIN

315807106361910 EAST SIDE DRAIN AT LEVEE ROAD NEAR ANTHONY, TX

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
FEB 25...	1200	2.0	49	670	13.6	145	8.7	1,920	14.0	12.0	220	57.6	18.6

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)
FEB 25...	35.3	8	284	301	348	9	.15	255	1.1	26.0	275	1,140	1,190

Date	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Boron, water, fltrd, ug/L (01020)
FEB 25...	6.8	3.99	.24	.31	.068	1.55	1.63	1.93	398

RIO GRANDE BASIN—Continued

320610106393110 DEL RIO DRAIN AT LEVEE ROAD NEAR VADO, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
FEB 25...	0845	.16	21	668	6.6	64	8.0	1,330	6.0	8.0	140	300	81.6

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)
FEB 25...	23.3	8.68	4	163	165	199	.18	137	.7	10.1	301	824	860

Date	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Boron, water, fltrd, ug/L (01020)
FEB 25...	.82	.08	<.06	E.005	.03	.06	.16	253

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

RIO GRANDE BASIN—Continued

322841106551010 RIO GRANDE BELOW LEASBURG DAM, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
FEB 24...	0900	2.1	2.5	660	10.0	96	8.4	2,230	5.0	7.0	160	390	117

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)
FEB 24...	23.1	26.8	6	285	228	270	4	.36	405	1.2	26.5	288	1,310

Date	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Boron, water, fltrd, ug/L (01020)
FEB 24...	1,350	.24	<.04	<.06	<.008	<.02	<.04	<.04	300

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

TULAROSA VALLEY BASIN—Continued

331622106191110 SALT MARSH LOWER LAKE, SITE 8 ON WSMR, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
JUN 08...	1210	654	7.0	110	8.0	17,900	35.0	27.1	5,200	5,300	1,150	583	27.9

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
JUN 08...	14	2,410	122	147	1.34	4,410	4.4	68.4	3,890	12,600	13,700	<.06	<.008

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)
JUN 08...	E.02	<750	4	E21.7	<6.0	957	<48	E37	<39	<75	<96	.71	255

Date	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Petroleum hydrocarbons wat unf frn ext mg/L (45501)
JUN 08...	435	<.02	E36	<30	<5	<42	31,000	<69	<45	<2

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

TULAROSA VALLEY BASIN—Continued

331702106184010 SALT MARSH STREAM IN CHANNEL, SITE 6 ON WSMR, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
JUN 08...	1435	.55	654	9.5	129	7.1	6,300	37.5	21.7	2,300	2,300	680	151

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Nitrite + nitrate water fltrd, mg/L as N (00631)
JUN 08...	7.05	6	660	56	67	.44	1,240	1.3	25.8	1,870	4,690	5,130	2.66

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)
JUN 08...	<.008	<.02	<250	<2	11.7	<2.0	209	<16	E13	<13	<25	<32	<.24

Date	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Petroleum hydrocarbons wat unf frn ext mg/L (45501)
JUN 08...	62	E2.2	<.02	<20	<10	<3	<14	12,200	<23	<15	<2

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

TULAROSA VALLEY BASIN—Continued

331713106183610 SALT MARSH STREAM CHANNEL, SITE 4 ON WSMR, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
JUN 08...	1030	655	7.7	94	7.4	5,330	34.0	16.9	2,200	2,300	664	145	6.92

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
JUN 08...	6	640	52	63	.46	1,190	1.3	28.6	1,830	4,560	4,870	3.13	<.008

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)
JUN 08...	<.02	<250	<2	11.3	<2.0	214	<16	E12	<13	<25	<32	<.24	60

Date	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Petroleum hydrocarbons wat unf frn ext mg/L (45501)
JUN 08...	E2.1	<.02	E16	<10	<3	<14	11,900	<23	<15	<2

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

TULAROSA VALLEY BASIN—Continued

331715106183310 MALPAIS SPRING CHANNEL, SITE 3 ON WSMR, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
JUN 07...	1715	1.4	651	7.3	89	7.4	5,540	36.5	16.4	2,400	2,400	716	157

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Nitrite + nitrate water fltrd, mg/L as N (00631)
JUN 07...	7.70	6	697	48	58	.46	1,200	1.3	28.1	1,850	4,710	4,850	3.17

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)
JUN 07...	<.008	E.01	<5	<2	10.9	<1.2	211	<10	E12	<8	E8	<19	<.24

Date	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Petroleum hydrocarbons wat unf frn ext mg/L (45501)
JUN 07...	56	E1.3	<.02	E11	M	<3	<8	12,900	E7	E5	<2

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

TULAROSA VALLEY BASIN—Continued

331716106183410 MALPAIS SPRING CHANNEL, SITE 2 ON WSMR, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
JUN 07...	1445	1.3	652	7.8	96	7.4	5,570	38.5	16.7	2,300	2,300	678	152

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Nitrite + nitrate water fltrd, mg/L as N (00631)
JUN 07...	7.52	7	761	50	61	.46	1,200	1.3	29.4	1,900	4,780	4,950	3.17

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)
JUN 07...	<.008	<.02	<150	<2	11.4	<1.2	228	<10	13	<8	<15	E18	<.24

Date	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Petroleum hydrocarbons wat unf frn ext mg/L (45501)
JUN 07...	41	<2.4	<.02	<12	M	<3	<8	12,300	E11	E5	<2

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

TULAROSA VALLEY BASIN—Continued

332057106211310 SALT CREEK 4 AT RANGE ROAD 7 ON WSMR, NM

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
MAR 30...	1052	.13	663	7.8	96	7.8	30,100	23.5	13.0	3,500	3,700	959	317

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Nitrite + nitrate water fltrd, mg/L as N (00631)
MAR 30...	133	42	5,920	200	243	2.19	9,740	4.9	24.9	2,990	20,200	20,500	<.06

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)
MAR 30...	<.008	<.02	<1,250	E4	E34.8	<10.0	629	<80	<105	<65	<125	E91	<.88

Date	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)
MAR 30...	1,850	168	<.02	<100	70	<10	<70	19,900	<115	<75

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

BERNALILLO COUNTY

Albuquerque Area

350256106390801. Local number, 10N.03E.32.314.
LOCATION.--Lat 35°02'56", long 106°39'09", Hydrologic Unit 13020203.
AQUIFER.--Santa Fe Group.
WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 16 in., depth 764 ft, perforated 188-764 ft.
INSTRUMENTATION.--Digital recorder, 1-hour measurement.
DATUM.--Elevation of land-surface datum is 4,941 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 3.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--1982 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.07 ft below land-surface datum, Jan. 5, 1987; lowest measured, 45.47 ft below land-surface datum, July 16, 1994.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	40.34	37.17	37.07	34.92	34.54	33.58	34.18	35.57	39.05	37.55	37.25	38.12
10	39.13	37.15	35.86	34.94	33.60	34.19	33.67	36.26	39.10	38.98	36.94	37.83
15	36.63	36.58	34.83	34.75	34.07	33.40	33.65	37.46	38.13	38.36	38.05	37.21
20	36.47	36.04	34.94	33.82	34.37	34.26	34.83	37.35	39.37	37.77	38.14	36.84
25	37.18	36.27	35.38	34.52	33.70	33.13	35.81	38.20	39.61	37.83	37.16	37.30
EOM	37.47	36.42	34.91	35.11	33.47	33.23	36.14	38.43	37.91	37.21	37.51	37.05

WTR YR 2004 HIGHEST 32.99 MAR 27 LOWEST 40.34 OCT 5

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 March 1960, January 1962 to January 1966, January 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 23	266.70	FEB 04	267.21	SEP 07	266.55

Roswell Basin

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.--Recorder removed Nov. 26, 1990. 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.
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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06	44.50	JAN 15	38.50	MAR 15	37.70	MAY 15	42.30	JUL 15	47.60	SEP 15	45.50
15	43.50	25	38.10	25	40.40	25	43.10	25	45.95	25	45.45
24	43.00	FEB 05	39.10	APR 05	39.40	JUN 05	43.10	AUG 05	46.40		
NOV 05	42.30	15	37.50	15	38.40	15	44.90	15	46.40		
14	41.30	25	37.90	25	39.40	25	45.85	25	46.60		
JAN 05	38.70	MAR 05	37.60	MAY 05	40.60	JUL 05	45.40	SEP 05	47.40		

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.--March 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 29	178.87	FEB 04	182.78	SEP 07	Dry

CHAVES COUNTY—Continued

Roswell Basin

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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 21	70.47	FEB 04	70.15	SEP 07	73.10

Roswell Basin

331525104245201 (formerly 331205104245101). Local number, 12S.25E.23.344412.
LOCATION.--Lat 33°15'25", long l04°24'52", Hydrologic Unit 13060007.
AQUIFER.--San Andres Limestone.
WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 9 to 7 in., depth 930 ft, 9-in. casing 0-304 ft, 7-in. casing 304-714 ft.
INSTRUMENTATION.--Digital recorder, 1-hour measurement.
DATUM.--Elevation of land-surface datum is 3,540 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 2.30 ft above land-surface datum.
REMARKS.--Records good, except for missing record for July and Sept. and several other days during the year due to float problem and power outage.
PERIOD OF RECORD.--January 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.39 ft below land-surface datum, Mar. 5, 2002; lowest measured, 199.68 ft below land-surface datum, June 20, 1978.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	61.03	48.02	29.45	26.78	23.74	32.69	53.41	65.82	115.35	---	---	87.51
10	36.83	35.74	28.27	26.22	25.13	37.65	38.21	66.28	127.64	---	---	82.90
15	23.69	32.65	26.59	26.17	21.46	33.97	43.50	77.95	132.32	---	---	78.06
20	31.37	---	29.24	26.18	30.40	47.23	55.49	86.94	---	---	---	76.41
25	---	---	25.82	25.16	26.21	69.44	66.06	76.56	---	---	---	64.61
EOM	46.05	27.48	26.23	24.95	26.95	79.83	70.49	95.53	105.68	---	---	---

WTR YR 2004 HIGHEST 21.00 FEB 14 LOWEST 132.32 JUN 13-15

Roswell Basin

331524104245101. Local number, 12S.25E.23.344234A.
LOCATION.--Lat 33°15'24", long 104°24'51", Hydrologic Unit 13060007.
AQUIFER.--Valley fill.
WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 7 in., total depth 231 ft, cased to total depth, perforated 105-231 ft.
INSTRUMENTATION.--Digital recorder, 1-hour measurement.
DATUM.--Elevation of land-surface datum is 3,540 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of recorder shelf, 2.40 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--1942 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 99.32 ft below land-surface datum, Apr. 14, 2000; lowest measured, 110.98 ft below land-surface datum, Oct. 1, 1980.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	103.05	103.22	103.31	103.19	102.98	102.87	102.69	102.76	102.89	103.26	103.63	103.98
10	103.08	103.14	103.17	103.13	102.93	102.73	102.77	102.76	102.98	103.32	103.64	104.00
15	103.09	103.18	103.09	103.03	102.91	102.73	102.72	102.77	102.98	103.35	103.76	104.06
20	103.18	103.15	103.14	103.03	102.95	102.80	102.67	102.79	103.04	103.39	103.80	104.09
25	103.28	103.15	103.12	102.97	102.89	102.70	102.79	102.89	103.13	103.56	103.82	104.21
EOM	103.25	103.20	103.12	102.87	102.80	102.65	102.77	102.86	103.17	103.59	103.93	104.16

WTR YR 2004 HIGHEST 102.57 APR 8 LOWEST 104.23 SEP 28

Roswell Basin

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.
REMARKS.--"S" indicates nearby well pumping.
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.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.23 ft below land-surface datum, Feb. 3, 1942; lowest measured, 99.21S ft below land-surface datum, Aug. 8, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 12	92.79	FEB 04	92.25	SEP 07	95.63

CHAVES COUNTY—Continued

Roswell Basin

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.--Recorder removed Nov. 25, 1990. 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.
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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06	71.70	OCT 15	50.70	OCT 24	55.20	NOV 05	46.26	NOV 14	32.29

Roswell Basin

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.
REMARKS.--"V" indicates foreign substance was present on surface of water.
PERIOD OF RECORD.--April 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, 328.69 ft below land-surface datum, Aug. 21, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 04	314.40	FEB 19	292.47V	SEP 08	315.63

Penasco Valley

325654105180101. Local number, 16S.16E.03.312132.
LOCATION.--Lat 32°56'54", long 105°18'01", Hydrologic Unit 13060010.
AQUIFER.--Bolson deposits.
WELL CHARACTERISTICS.--Drilled water-table irrigation well, depth 163 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 5,743.80 ft above National Geodetic Vertical Datum of 1929. Measuring point: end of discharge pipe, 4.53 ft above land surface.
PERIOD OF RECORD.--August 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.19 ft below land-surface datum, Aug. 13, 1987; lowest measured, 38.37 ft below land-surface datum, Jan. 21, 1967.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 03	31.65	FEB 05	31.60	SEP 08	34.26

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 $\frac{1}{2}$-in. hole in pump base, 1.00 ft above land-surface datum.
PERIOD OF RECORD.--February 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 01	31.90	SEP 01	31.70

CIBOLA COUNTY—Continued

Grants-Bluewater Area

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.--February 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.23 ft below land-surface datum, Sept. 29, 1988; lowest measured, 45.84 ft below land-surface datum, Sept. 1, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 01	41.59	SEP 01	45.84

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.--October 1944, February 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 01	84.00	SEP 01	86.99

Grants-Bluewater Area

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, Sept. 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 01	129.08	SEP 01	133.45

Grants-Bluewater Area

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, Sept. 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL
SEP 01	89.93

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.--February 1957 to February 1969, February 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, 11.42 ft below land-surface datum, July 10, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 24	9.25	MAR 10	9.98

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.--February 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 101.82 ft below land-surface datum, Aug. 26, 1968; lowest measured, 139.24 ft below land-surface datum, Sept. 2, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL
SEP 07	129.28

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.--Periodic steel-tape measurements.
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.--"S" indicates nearby well pumping.
PERIOD OF RECORD.--January 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, 303.28S ft below land-surface datum, Aug. 25, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 23	303.14	FEB 27	272.31	AUG 21	302.24

Clovis Area

342358103093601. Local number, 02N.36E.15.11111.
LOCATION.--Lat 34°23'58", long 103°09'36", Hydrologic Unit 12050002.
AQUIFER.--Ogallala Formation.
WELL CHARACTERISTICS.--Drilled water-table irrigation well; diameter, depth, and casing information not available.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 4,227 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of concrete base 1.20 ft above land-surface datum.
PERIOD OF RECORD.--January 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, 315.83 ft below land-surface datum, Feb. 23, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 23	315.83	AUG 21	296.82

CURRY COUNTY—Continued

Clovis Area

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.--April 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, 363.13 ft below land-surface datum, Feb. 24, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 24	363.13	MAR 03	361.28	AUG 21	362.12

Clovis Area

343347103345001. Local number, 04N.32E.22.111114.
LOCATION.--Lat 34°33'47", long l03°34'50", Hydrologic Unit 12050001.
AQUIFER.--Ogallala Formation.
WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 16 in., depth 401 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
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.
PERIOD OF RECORD.--January 1980 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 295.08 ft above land-surface datum, Aug. 21, 2004; lowest measured, 309.92 ft below land-surface datum, Jan. 9, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 24	295.09	AUG 21	295.08

Clovis Area

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.--January 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, 459.79 ft below land-surface datum, Aug. 21, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 23	459.18	MAR 02	458.49	AUG 21	459.79

DONA ANA COUNTY

Rincon and Mesilla Valleys

322203106484101 (formerly 322210106483001). Local number, 22S.01E.26.411.
LOCATION.--Lat 32°22'03", long 106°48'41", Hydrologic Unit 13030102.
AQUIFER.--Valley fill.
WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 18 in., depth 107 ft, cased to 107 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 3,920 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of east side of casing, 1.50 ft above land-surface datum.
PERIOD OF RECORD.--April 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.56 ft below land-surface datum, July 24, 2001; lowest measured, 25.57 ft below land-surface datum, Apr. 25, 1957.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 26	17.19	JUL 12	18.99

DONA ANA COUNTY—Continued

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 year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 66.40 ft below land-surface datum, Apr. 21, 1999; lowest measured, 70.34 ft below land-surface datum, Aug. 9, 2004.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	69.91	69.99	69.99	69.83	69.67	69.54	69.41	69.45	69.64	70.05	70.29	70.19
10	69.90	70.04	69.90	69.86	69.70	69.63	69.47	69.43	69.69	70.11	70.33	70.21
15	69.97	69.98	69.87	69.71	69.69	69.59	69.48	69.45	69.77	70.15	70.25	70.18
20	69.98	69.99	69.91	69.72	69.63	69.61	69.45	69.49	69.87	70.19	70.27	70.21
25	69.95	69.94	69.82	69.67	69.64	69.57	69.48	69.51	69.96	70.27	70.25	70.30
EOM	69.96	70.00	69.84	69.65	69.60	69.55	69.44	69.57	69.96	70.26	70.24	70.20

WTR YR 2004 HIGHEST 69.41 APR 22, MAY 12 LOWEST 70.34 AUG 9

Rincon and Mesilla Valleys

321606106462901 (formerly 321620106461501). Local number, 23S.02E.31.213.
LOCATION.--Lat 32°16'06", long 106°46'29", Hydrologic Unit 13030102.
AQUIFER.--Valley fill.
WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 14 in., reported depth 70 ft, cased to 70 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 3,880 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of 5/8-in. hole in pump base, 1.08 ft above land-surface datum.
PERIOD OF RECORD.--February 1948, April 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 27	26.89	JUL 12	28.40

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.--January 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 05	66.60	SEP 08	72.45

Roswell Basin

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, 71.30 ft below land-surface datum, July 22, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	68.26	NOV 20	68.07	JUN 25	70.67	JUL 22	71.30

EDDY COUNTY—Continued

Roswell Basin

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: ½-in. by 3-in. vertical slot under pump base, at land-surface datum.
REMARKS.--"P" indicates well pumping.
PERIOD OF RECORD.--January 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 24	112.33	FEB 05	111.69	SEP 08	P

Roswell Basin

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.--December 1968, January 1970 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 508.63 ft below land-surface datum, Jan. 27, 1988; lowest measured, 553.18 ft below land-surface datum, Aug. 11, 1997.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 05	520.39	SEP 08	523.51

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.
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 TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	140.04	117.27	105.25	97.60	91.25	90.27	109.38	103.50	128.16	134.19	139.58	139.59
10	133.49	114.62	103.37	96.40	90.48	93.81	102.37	113.31	136.54	140.43	146.58	139.44
15	128.82	112.37	102.12	95.17	89.52	96.22	98.11	126.32	141.85	147.98	137.38	140.98
20	125.93	110.42	101.30	93.97	88.74	104.26	96.48	130.83	144.04	149.81	136.97	136.81
25	123.09	108.39	99.97	92.67	89.24	113.31	99.05	127.76	143.87	147.20	141.47	135.05
EOM	120.00	106.63	99.09	91.96	89.85	121.70	99.78	123.41	134.15	135.33	151.25	122.51

WTR YR 2004 HIGHEST 88.69 FEB 19 LOWEST 154.87 JUL 24

Roswell Basin

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.
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, 145.98 ft below land-surface datum, Sept. 14, 2003.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	144.75	140.36	136.20	132.88	130.46	128.05	129.73	128.51	131.52	135.10	136.81	137.94
10	144.05	139.39	135.32	132.23	130.00	127.68	129.62	128.79	132.03	135.69	137.09	138.04
15	143.40	138.63	134.65	131.78	129.55	127.67	129.16	129.42	132.79	135.93	137.48	137.95
20	142.78	137.82	134.01	131.75	129.07	127.94	128.68	130.16	133.60	136.25	137.56	137.83
25	142.21	137.08	133.50	131.25	128.79	128.17	128.61	130.92	134.35	136.85	137.50	137.76
EOM	141.21	136.58	133.08	130.67	128.28	129.05	128.40	131.36	134.67	136.67	137.87	136.91

WTR YR 2004 HIGHEST 127.54 MAR 17 LOWEST 145.15 OCT 1

EDDY COUNTY—Continued

Roswell Basin

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.--Recorder removed Nov. 27, 1990. 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.
PERIOD OF RECORD.--August 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, 127.84 ft below land-surface datum, July 23, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 30	127.50	NOV 20	127.60	JUN 25	127.79	JUL 23	127.84

Roswell Basin

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.
REMARKS.--"S" indicates nearby well pumping.
PERIOD OF RECORD.--January 1938 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.96 ft below land-surface datum, Feb. 26, 2001; lowest measured, 124.00 ft below land-surface datum, Jan. 9, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 02	46.52	FEB 05	Obstruction	SEP 10	45.77S

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.--January 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 02	45.05	FEB 05	44.71	SEP 10	39.42

Carlsbad Area

322637104142301 (formerly 322652104141901). Local number, 21S.26E.36.22110.
LOCATION.--Lat 32°26'37", long 104°14'23", Hydrologic Unit 13060011.
AQUIFER.--Capitan Limestone.
WELL CHARACTERISTICS.--Drilled water-table municipal well, diameter 20 in., depth 327 ft, casing 0-290 ft.
INSTRUMENTATION.--Digital recorder, 1-hour measurement.
DATUM.--Elevation of land-surface datum is 3,122.10 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of recorder shelf, 4.26 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--April 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.98 ft below land-surface datum, June 14, 1987; lowest measured, 26.07 ft below land-surface datum, Aug. 2, 1974.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.74	23.89	23.41	23.18	23.11	22.93	22.19	22.06	22.28	22.46	21.87	21.44
10	24.35	23.75	23.24	23.26	23.21	22.94	21.87	22.02	22.39	22.43	21.78	21.70
15	24.24	23.63	23.07	23.18	23.10	22.80	21.85	22.11	22.41	22.38	21.46	21.69
20	24.09	23.49	23.24	23.13	23.09	22.96	21.89	22.20	22.43	22.50	21.37	21.63
25	24.14	23.13	23.10	23.02	23.12	22.93	22.01	22.16	22.51	22.44	21.47	21.38
EOM	23.95	23.26	23.13	23.04	22.95	23.04	21.99	22.27	22.34	21.78	21.60	20.71

WTR YR 2004 HIGHEST 21.85 APR 9, 12, 14, 15 LOWEST 24.99 OCT 1

EDDY COUNTY—Continued

Carlsbad Area

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. by 5 ½ 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 TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	94.86	93.91	93.28	93.08	93.03	92.91	92.46	91.93	92.20	92.27	91.68	91.28
10	94.52	93.91	93.27	93.17	93.08	92.95	91.86	91.93	92.18	92.28	91.67	91.44
15	94.32	93.76	93.18	93.19	93.09	92.88	91.75	92.07	92.33	92.19	91.43	91.49
20	94.17	93.61	93.28	93.12	93.04	92.79	91.72	92.15	92.35	92.35	91.24	91.51
25	94.10	93.26	93.19	93.09	93.01	92.85	91.84	92.02	92.33	92.46	91.24	91.31
EOM	93.97	93.26	93.11	93.08	92.96	92.87	91.85	92.14	92.24	91.67	91.43	90.72

WTR YR 2004 HIGHEST 91.69 APR 21, 22 LOWEST 95.04 OCT 1

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.--March 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, 419.60 ft below land-surface datum, July 2, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 08	416.47S	JUL 02	419.60

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.--Periodic steel-tape measurements.
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.
PERIOD OF RECORD.--March 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, 305.68 ft below land-surface datum, July 2, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 08	303.06	JUL 02	305.68

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 recorded, 343.67 ft below land-surface datum, July 27, 1992; lowest recorded, 368.97 ft below land-surface datum, Mar. 14, 2004.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	364.19	364.89	365.91	366.76	367.53	368.46	366.91	363.71	360.21	360.03	359.49	358.74
10	363.92	365.15	366.00	366.85	367.67	368.49	366.34	362.96	360.19	360.26	359.04	358.90
15	364.12	365.20	366.07	366.93	367.83	368.59	365.84	362.40	360.49	360.41	359.20	359.31
20	364.33	365.31	366.28	367.12	368.22	368.74	365.22	361.86	360.25	360.18	359.07	359.14
25	364.76	365.52	366.33	367.16	368.16	367.92	364.78	361.65	360.33	360.03	358.47	359.13
EOM	364.72	365.74	366.60	367.32	368.56	367.86	364.28	360.58	360.09	359.58	358.67	359.10

WTR YR 2004 HIGHEST 358.40 AUG 22, 23 LOWEST 368.97 MAR 14

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.--Submersible pump installed in 1984. 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-in. plugged hole, east side, 1.50 ft above land-surface datum.
REMARKS.--"V" indicates foreign substance was present on surface of water; "P" indicates well pumping.
PERIOD OF RECORD.--January 1967 to present.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 48.34 ft below land-surface datum, Jan. 18, 1983; lowest measured, 57.0VP ft below land-surface datum, Mar. 8, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 08	57.0VP	AUG 23	50.53

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.--January 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, 15.90 ft below land-surface datum, July 1, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 08	13.50	JUL 01	15.90

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.--April 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 21	164.62	JUL 01	157.40

Lordsburg Area

321248108331401 (formerly 321257108331201). Local number, 24S.17W.14.442.
LOCATION.--Lat 32°12'48", long 108°33'14", Hydrologic Unit 15040003.
AQUIFER.--Alluvium.
WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 18 in., depth 420 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 4,265 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 1.00 ft above land-surface datum.
PERIOD OF RECORD.--May 1955 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 78.97 ft below land-surface datum, Jan. 7, 1981; lowest measured, 227.25 ft below land-surface datum, July 17, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 21	Dry	JUL 01	92.40

HIDALGO COUNTY—Continued

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, 57.10 ft below land-surface datum, July 1, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL
JUL 01	57.10

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 $\frac{1}{4}$-in. pipe in concrete pump base, 1.25 ft above land-surface datum.
REMARKS.--"P" indicates well pumping.
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, 208.30 ft below land-surface datum, Jan. 6, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 20	188.15	JUL 01	P

San Simon Valley

315738109004001. Local number, 27S.21W.17.124.
LOCATION.--Lat 31°57'38", long l09°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.--January 1978, January 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, 158.45 ft below land-surface datum, January 30, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 20	157.80	JUL 05	Obstruction

San Simon Valley

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.
REMARKS.--"R" indicates well recently pumped.
PERIOD OF RECORD.--January 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, 130.00 ft below land-surface datum, July 1, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 20	125.87R	JUL 01	130.00

HIDALGO COUNTY—Continued

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.--January 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, 61.45 ft below land-surface datum, July 1, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 21	51.79	JUL 01	61.45

LEA COUNTY

Tatum-Lovington-Hobbs Area

332115103403301. Local number, 11S.32E.24.113222.
LOCATION.--Lat 33°21'15", long l03°40'33", Hydrologic Unit 12080001.
AQUIFER.--Ogallala Formation.
WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 4 $\frac{1}{2}$ 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.--October 1977 to November 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 TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	59.96	59.96	59.94	59.95	59.94	59.96	59.91	59.93	59.94	59.97	59.97	59.97
10	59.95	59.94	59.93	59.95	59.96	59.95	59.92	59.94	59.94	59.98	59.94	59.97
15	59.96	59.95	59.93	59.95	59.96	59.94	59.93	59.93	59.95	59.98	59.97	59.97
20	59.97	59.94	59.94	59.95	59.97	59.94	59.92	59.94	59.96	59.97	59.99	59.97
25	59.97	59.93	59.94	59.94	59.98	59.93	59.93	59.95	59.97	59.99	59.96	59.98
EOM	59.98	59.94	59.95	59.94	59.95	59.92	59.93	59.95	59.97	59.99	59.97	59.95

WTR YR 2004 HIGHEST 59.88 APR 3 LOWEST 60.00 JUL 29, 30

Tatum-Lovington-Hobbs Area

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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 05	32.90	MAR 22	32.01

Tatum-Lovington-Hobbs Area

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.--January 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 07	44.24	MAR 22	44.17

LEA COUNTY—Continued

Tatum-Lovington-Hobbs Area

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.--January 1949 to January 1950, January 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 07	74.40	AUG 22	74.52

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.--August 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 TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	57.96	57.84	57.85	57.79	57.72	57.69	57.66	57.66	57.65	57.72	57.79	57.82
10	57.94	57.83	57.80	57.77	57.72	57.70	57.66	57.64	57.65	57.74	57.80	57.80
15	57.92	57.82	57.79	57.75	57.73	57.68	57.66	57.65	57.65	57.76	57.81	57.77
20	57.91	57.80	57.80	57.75	57.72	57.68	57.66	57.64	57.68	57.77	57.81	57.77
25	57.89	57.80	57.78	57.70	57.73	57.66	57.66	57.64	57.72	57.82	57.81	57.76
EOM	57.87	57.80	57.78	57.69	57.70	57.66	57.66	57.64	57.72	57.81	57.82	57.69

WTR YR 2004 HIGHEST 57.56 APR 4 LOWEST 57.98 OCT 1

Tatum-Lovington-Hobbs Area

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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 08	74.09	AUG 22	79.24

Tatum-Lovington Hobbs Area

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.--November 1943 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.78 ft below land-surface datum, Jan. 15, 1944; lowest measured, 78.84 ft below land-surface datum, July 10, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 08	76.87	AUG 22	77.58

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, 34.55 ft below land-surface datum, Feb. 4, 2004; lowest measured, 69.77 ft below land-surface datum, Nov. 28, 1956.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 28	40.75	FEB 04	34.55	SEP 07	35.75

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 northeast side of pump shell, 1.60 ft above land-surface datum.
REMARKS.--"P" indicates well pumping.
PERIOD OF RECORD.--November 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, 230.35 ft below land-surface datum, Jan. 3, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 13	P	JUL 02	P

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.--Recorder removed. Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 4,363 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of recorder shelter shelf, 3.20 ft above land-surface datum.
PERIOD OF RECORD.--April 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, 124.73 ft below land-surface datum, July 24, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	113.98	DEC 22	112.60	FEB 27	112.28	APR 23	112.98	JUN 25	114.08	AUG 26	114.58
DEC 01	113.20	JAN 26	112.20	MAR 24	112.41	JUN 03	113.98	JUL 21	114.08	SEP 24	113.98

Mimbres Valley

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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 13	170.98	JUL 02	159.40

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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 13	15.08	JUL 02	14.70

Mimbres Valley

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.--January 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 13	81.60	JUL 02	80.50

Mimbres Valley

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, July 18, 1957; lowest measured, 229.90 ft below land-surface datum, July 5, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 13	192.70	JUL 02	203.60

Mimbres Valley

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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 13	75.20	JUL 02	74.80

LUNA COUNTY—Continued

Mimbres Valley

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.--January 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.61 ft below land-surface datum, Jan. 19, 1954; lowest measured, 48.07 ft below land-surface datum, July 11, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 13	41.20	JUL 02	41.50

Mimbres Valley

315009107352401. Local number, 28S.07W.30.443.
LOCATION.--Lat 31°50'09", long 107°35'24", Hydrologic Unit 13030202.
AQUIFER.--Bolson deposits.
WELL CHARACTERISTICS.--Drilled water-table irrrigation well, diameter 16 in., depth 1,000 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 4,013 ft above National Geodetic Vertical Datum of 1929. Measuring point: notch in casing, east side at land surface.
PERIOD OF RECORD.--February 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.20 ft below land-surface datum, Jan. 31, 1992; lowest measured, 22.68 ft below land-surface datum, July 2, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 13	21.98	JUL 02	22.68

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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 01	114.90	SEP 01	116.20

San Juan Basin

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.
REMARKS.--"V" indicates foreign substance was present on surface of water.
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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 03	288.32V	SEP 01	284.21

McKINLEY COUNTY—Continued

San Juan Basin

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, 974-1,033 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.--October 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 03	135.83	SEP 01	151.49

San Juan Basin

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.--August 1982 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 236.90 ft below land-surface datum, Sept. 1, 2004; lowest measured, 350.38 ft below land-surface datum, Oct. 8, 1986.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 03	237.80	SEP 01	236.90

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.--August 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, 123.90 ft below land-surface datum, Sept. 1, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 03	123.59	SEP 01	123.90

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.--April 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 22	101.13	JUL 02	106.00

OTERO COUNTY—Continued

Penasco Valley

325115105321401. Local number, 17S.14E.08.12111.
LOCATION.--Lat 32°51'15", long 105°32'14", Hydrologic Unit 13060010.
AQUIFER.--Bolson deposits.
WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 8 in., cased 0-120 ft, perforated 35-120 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 6,850.90 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 1.50 ft above land surface.
PERIOD OF RECORD.--March 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.53 ft below land-surface datum, Aug. 23, 2001; lowest measured, 45.13 ft below land-surface datum, July 22, 1957.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 02	32.84	FEB 05	32.97	SEP 08	29.81

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 recently pumped.
PERIOD OF RECORD.--January 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 10	75.90	AUG 20	75.13

House Area

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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 10	45.74	AUG 20	48.27

House Area

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.--January 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 10	119.97	AUG 20	120.02

QUAY COUNTY—Continued

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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 08	58.45	AUG 23	94.32

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 ½-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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 08	92.06	AUG 23	92.34

Northern High Plains

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.--October 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 08	161.62	AUG 23	164.69

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.--Periodic steel-tape measurements.
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.
PERIOD OF RECORD.--April 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, 69.04 ft below land-surface datum, July 8, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 23	68.90	AUG 21	68.96

ROOSEVELT COUNTY—Continued

Portales Valley

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.
PERIOD OF RECORD.--January 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, 97.47 ft below land-surface datum, Aug. 21, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 23	96.38	AUG 21	97.47

Portales Valley

340753103083101. Local number, 02S.36E.14.311111.
LOCATION.--Lat 34°07'53", long l03°08'31", Hydrologic Unit 12050001.
AQUIFER.--Alluvium.
WELL CHARACTERISTICS.--Drilled water-table observation well, diameter 16 in., depth 151 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 3,938 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 2.00 ft above land-surface datum.
REMARKS.--"R" indicates well recently pumped.
PERIOD OF RECORD.--January 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, 131.42R ft below land-surface datum, Aug. 21, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL
AUG 21	131.42R

Portales Valley

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.--Periodic steel-tape measurements.
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.
PERIOD OF RECORD.--June 1992 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 103.78 ft below land-surface datum, June 2, 1992; lowest measured, 144.27 ft below land-surface datum, June 19, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 23	140.27	AUG 21	139.55

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" indicates well pumping.
PERIOD OF RECORD.--January 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 10	95.12	AUG 21	95.65

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.--January 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 27	25.09	SEP 02	23.45

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.--March 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, 12.23 ft below land-surface datum, Sept. 10, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 23	12.01	SEP 10	12.23

Corrales Area

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.--March 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, 32.07 ft below land-surface datum, Sept. 10, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 23	29.92	SEP 10	32.07

Corrales Area

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 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, 0.47 ft below land-surface datum.
PERIOD OF RECORD.--March 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, 16.75 ft below land-surface datum, Sept. 10, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 23	16.13	SEP 10	16.75

SANDOVAL COUNTY—Continued

Corrales Area

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.--March 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, 42.82 ft below land-surface datum, Sept. 10, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 23	39.29	SEP 10	42.82

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.--March 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, 61.88 ft below land-surface datum, Sept. 10, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 23	57.44	SEP 10	61.88

Corrales Area

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.--March 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, 66.80 ft below land-surface datum, Sept. 10, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 23	62.41	SEP 10	66.80

SAN JUAN COUNTY

San Juan Basin

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.--February 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, 206.30 ft below land-surface datum, Sept. 2, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 04	187.08	SEP 02	206.30

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.--December 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, 54.78 ft below land-surface datum, Mar. 26, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 26	54.78	AUG 24	37.65

Las Vegas Area

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.--December 1999 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 79.81 ft below land-surface datum, July 27, 2001; lowest measured, 116.26 ft below land-surface datum, Mar. 26, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 26	116.26	AUG 24	98.87

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.--February 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	165.04	SEP 14	177.10

Estancia Valley

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.
REMARKS.--"S" indicates nearby well pumping.
PERIOD OF RECORD.--February 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, 146.28S ft below land-surface datum, Sept. 2, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	132.50	SEP 14	144.92S

SANTA FE COUNTY—Continued

Estancia Valley

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, 151.72 ft below land-surface datum, Sept. 14, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	150.00	SEP 14	151.72

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 $\frac{1}{2}$ 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.--February 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, 266.67 ft below land-surface datum, Sept. 9, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 25	264.03	SEP 09	266.67

Santa Fe Area

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.--Records good.
PERIOD OF RECORD.--July 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 125.62 ft below land-surface datum, June 11, 1973; lowest recorded, 132.54 ft below land-surface datum, July 18, 2003.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	131.33	131.33	131.35	131.42	131.44	131.45	131.38	131.36	131.34	131.42	131.45	131.51
10	131.31	131.30	131.29	131.36	131.35	131.33	131.41	131.34	131.37	131.41	131.42	131.47
15	131.32	131.31	131.27	131.34	131.40	131.35	131.40	131.33	131.38	131.42	131.46	131.51
20	131.33	131.28	131.31	131.40	131.42	131.39	131.36	131.36	131.32	131.43	131.50	131.52
25	131.39	131.30	131.35	131.38	131.41	131.38	131.42	131.38	131.36	131.45	131.46	131.52
EOM	131.34	131.37	131.35	131.36	131.37	131.32	131.44	131.36	131.39	131.47	131.49	131.51

WTR YR 2004 HIGHEST 131.20 NOV 22 LOWEST 131.54 SEP 22

Santa Fe Area

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: $\frac{1}{2}$-in. plug in cover plate, 6.00 ft below land-surface datum.
REMARKS.--"V" indicates foreign substance was present on surface of water.
PERIOD OF RECORD.--August 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, 235.50V ft below land-surface datum, July 11, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL
SEP 09	Dry

SANTA FE COUNTY—Continued

Santa Fe Area

354013105580601 (formerly 354005105574501). Local number, 17N.09E.27.441.
LOCATION.--Lat 35°40'13", long 105°58'06", Hydrologic Unit 13020201.
AQUIFER.--Tesuque Formation of Santa Fe Group.
WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 8 in., depth 989 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 6,845 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 2.70 ft below land-surface datum.
REMARKS.--"R" indicates well recently pumped.
PERIOD OF RECORD.--December 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, 249.69R ft below land-surface datum, Aug. 30, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 25	245.30	SEP 09	243.31

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.--October 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, 104.09 ft below land-surface datum, Sept. 28, 2004.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	98.38	98.76	99.33	99.87	100.29	100.86	101.34	101.19	101.78	102.19	102.76	103.43
10	98.34	98.82	99.23	100.14	100.58	101.06	100.70	101.25	101.79	102.33	102.83	103.60
15	98.53	98.80	99.24	100.05	100.64	101.17	100.72	101.37	101.87	102.45	102.94	103.66
20	98.70	98.85	99.58	100.06	100.73	101.44	100.78	101.48	101.97	102.47	103.07	103.79
25	98.68	98.81	99.57	100.00	100.87	101.33	100.97	101.55	102.16	102.58	103.12	104.00
EOM	98.71	99.15	99.78	100.14	100.77	101.51	100.99	101.64	102.10	102.58	103.38	103.98

WTR YR 2004 HIGHEST 98.34 OCT 2 LOWEST 104.09 SEP 28

Santa Fe Area

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, except for five days lost due to recorder malfunction.
PERIOD OF RECORD.--October 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, 232.92 ft below land-surface datum, Sept. 6, 7, 2003.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	232.36	232.15	230.87	227.63	226.13	224.58	224.61	224.81	226.46	228.11	228.93	227.54
10	232.34	232.12	230.26	227.43	225.95	224.41	223.13	225.01	226.64	228.37	228.80	227.34
15	232.39	231.96	229.69	227.03	225.62	224.45	223.50	225.26	226.96	228.86	228.61	227.05
20	232.43	231.87	229.28	226.72	225.30	224.49	224.02	225.48	227.33	228.74	228.38	226.85
25	232.32	231.51	228.58	226.44	225.02	224.22	224.32	225.73	227.66	228.88	228.14	226.64
EOM	232.19	231.28	228.02	226.28	224.78	224.69	224.51	226.08	227.89	228.90	227.86	226.31

WTR YR 2004 HIGHEST 223.13 APR 10 LOWEST 232.44 OCT 18, 19

SANTA FE COUNTY—Continued

Santa Fe Area

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.--October 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, 352.70 ft below land-surface datum, Sept. 18, 2004.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	305.32	303.56	302.03	300.53	300.08	299.88	300.05	345.44	349.44	350.95	351.79	352.07
10	304.77	303.50	301.60	300.56	299.81	299.97	315.98	346.34	349.82	351.31	351.73	352.19
15	304.41	303.26	301.21	300.62	299.66	300.98	334.39	347.10	350.33	346.47	351.84	352.46
20	304.16	302.94	301.01	300.92	300.13	300.32	340.21	348.06	350.69	348.17	351.89	352.49
25	303.95	302.57	300.78	300.74	300.60	303.63	342.65	348.75	349.93	350.41	351.69	352.11
EOM	303.69	302.32	300.68	300.44	300.79	301.45	344.24	349.11	350.49	351.75	351.89	352.21

WTR YR 2004 HIGHEST 299.65 FEB 16 LOWEST 352.70 SEP 18

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 fair, except for many days missing due to transducer oversubmergence.
PERIOD OF RECORD.--February 1999 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 221.06 ft below land-surface datum, Aug. 31, 2004; lowest measured, 519.10 ft below land-surface datum, Nov. 24, 1999.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	405.67	384.89	---	---	---	296.57	275.48	258.34	250.05	234.88	223.53	219.43
10	389.96	385.07	---	---	309.55	293.03	272.56	256.23	246.51	235.06	222.42	218.75
15	407.33	378.30	---	---	306.17	---	---	253.33	244.10	231.55	221.13	220.83
20	420.00	370.33	---	---	309.09	285.09	---	252.74	241.55	229.67	230.35	218.22
25	397.66	---	---	---	305.71	281.89	---	253.41	239.03	227.28	223.14	216.93
EOM	384.15	---	---	---	300.87	278.67	260.45	253.91	236.95	224.95	220.87	216.43

WTR YR 2004 HIGHEST 216.43 SEP 30 LOWEST 421.20 OCT 2

Santa Fe Area

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, 213.37 ft below land-surface datum, Sept. 30, 2004; lowest measured, 235.27 ft below land-surface datum, Oct. 23, 2003.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	234.64	234.36	232.78	231.92	229.01	227.21	224.62	222.35	221.11	218.43	216.30	215.17
10	234.04	233.98	232.87	231.76	228.78	226.94	224.22	222.04	220.55	218.85	216.03	215.00
15	234.34	233.79	233.04	230.82	228.37	226.51	223.86	221.64	220.08	217.94	215.74	215.48
20	234.68	233.56	232.49	230.34	229.33	226.17	223.40	221.91	219.72	217.47	218.62	214.32
25	234.41	232.89	231.84	229.78	229.00	225.55	223.12	222.14	219.33	217.25	216.40	214.02
EOM	234.01	232.76	232.10	229.37	227.70	225.16	222.58	221.50	218.89	216.63	215.88	213.37

WTR YR 2004 HIGHEST 213.37 SEP 30 LOWEST 235.02 OCT 23

Santa Fe Area

355002106093701. Local number, 19N.07E.35.4222A.
LOCATION.--Lat 35°50'02", long 106°09'37", Hydrologic Unit 13020201.
AQUIFER.--Tesuque Formation of the Santa Fe Group.
WELL CHARACTERISTICS.--Drilled monitor well, diameter 4 in., depth 300 ft, screen interval 274-284 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 5,480 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of steel casing, 1.50 ft above land-surface datum.
PERIOD OF RECORD.--January 1988 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.96 ft below land-surface datum, Jan. 15, 1988; lowest measured, 186.62 ft below land-surface datum, Sept. 8, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 18	185.56	MAR 17	174.08	MAY 17	167.10	JUL 29	161.53
FEB 09	177.65	APR 27	170.70	JUN 22	164.74	AUG 31	161.58

Santa Fe Area

355002106093702. Local number, 19N.07E.35.4222B.
LOCATION.--Lat 35°50'02", long 106°09'37", Hydrologic Unit 13020201.
AQUIFER.--Alluvium.
WELL CHARACTERISTICS.--Drilled monitor well, diameter 4 in., depth 170 ft, screen interval 149-159 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 5,480 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of steel casing, 1.70 ft above land-surface datum.
PERIOD OF RECORD.--January 1988 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.44 ft below land-surface datum, Aug. 17, 1988; lowest measured, 20.25 ft below land-surface datum, Mar. 17, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 18	18.68	MAR 17	20.25	MAY 17	19.72	JUL 29	17.91
FEB 09	20.19	APR 27	20.01	JUN 22	18.74	AUG 31	17.56

Santa Fe Area

355002106093703. Local number, 19N.07E.35.4222C.
LOCATION.--Lat 35°50'02", long 106°09'37", Hydrologic Unit 13020201.
AQUIFER.--Alluvium.
WELL CHARACTERISTICS.--Drilled monitor well, diameter 4 in., depth 60 ft, screen interval 40-50 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 5,480 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of steel casing, 1.80 ft above land-surface datum.
PERIOD OF RECORD.--January 1988 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.88 ft below land-surface datum, June 23, 1999; lowest measured, 17.75 ft below land-surface datum, Nov. 18, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 18	17.75	MAR 17	17.29	MAY 17	16.28	JUL 29	13.16
FEB 09	17.43	APR 27	16.80	JUN 22	16.48	AUG 31	15.02

Santa Fe Area

355003106094301. Local number, 19N.07E.35.4212A.
LOCATION.--Lat 35°50'03", long 106°09'43", Hydrologic Unit 13020201.
AQUIFER.--Tesuque Formation of the Santa Fe Group.
WELL CHARACTERISTICS.--Drilled monitor well, diameter 4 in., depth 304 ft, screen interval 260-270 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 5,470 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of steel casing, 1.80 ft above land-surface datum.
PERIOD OF RECORD.--January 1988 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.86 ft below land-surface datum, Jan. 15, 1988; lowest measured, 156.00 ft below land-surface datum, Sept. 8, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 18	155.37	MAR 17	147.50	MAY 17	142.32	JUL 29	137.16
FEB 09	149.83	APR 27	143.86	JUN 22	140.19	AUG 31	137.18

SANTA FE COUNTY—Continued

Santa Fe Area

355003106094302. Local number, 19N.07E.35.4212B.
LOCATION.--Lat 35°50'03", long 106°09'43", Hydrologic Unit 13020201.
AQUIFER.--Alluvium.
WELL CHARACTERISTICS.--Drilled monitor well, diameter 4 in., depth 130 ft, screen interval 110-120 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 5,470 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of steel casing, 1.50 ft above land-surface datum.
PERIOD OF RECORD.--January 1988 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.30 ft above land-surface datum, Aug. 17, 1988; lowest measured, 7.32 ft below land-surface datum, Feb. 9, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 18	6.48	MAR 17	7.20	MAY 17	6.50	JUL 29	5.36
FEB 09	7.32	APR 27	6.89	JUN 22	5.89	AUG 31	5.37

Santa Fe Area

355003106094303. Local number, 19N.07E.35.4212C.
LOCATION.--Lat 35°50'03", long 106°09'43", Hydrologic Unit 13020201.
AQUIFER.--Alluvium.
WELL CHARACTERISTICS.--Drilled monitor well, diameter 4 in., depth 60 ft, screen interval 40-50 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 5,470 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of steel casing, 1.80 ft above land-surface datum.
PERIOD OF RECORD.--January 1988 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.45 ft below land-surface datum, Oct. 21, 1997; lowest measured, 13.06 ft below land-surface datum, Nov. 18, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 18	13.06	MAR 17	12.52	MAY 17	11.11	JUL 29	10.75
FEB 09	12.79	APR 27	11.91	JUN 22	12.10	AUG 31	11.00

Santa Fe Area

355006106094803. Local number, 19N.07E.35.4122C.
LOCATION.--Lat 35°50'06", long 106°09'48", Hydrologic Unit 13020201.
AQUIFER.--Alluvium.
WELL CHARACTERISTICS.--Drilled monitor well, diameter 4 in., depth 74 ft, screen interval 49-59 ft.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 5,455 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of steel casing, 1.90 ft above land-surface datum.
PERIOD OF RECORD.--January 1988 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.29 ft below land-surface datum, June 24, 1997; lowest measured, 6.22 ft below land-surface datum, Nov. 18, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 18	6.22	MAR 17	5.39	MAY 17	3.85	JUL 29	4.87
FEB 09	5.87	APR 27	4.90	JUN 22	4.86	AUG 31	4.96

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.--February 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 27	51.41	JUL 12	52.38

SIERRA COUNTY—Continued

Hot Springs Area

325921107185101 (formerly 325550107184001). Local number, 15S.05W.24.312.
LOCATION.--Lat 32°59'21", long 107°18'51", Hydrologic Unit 13030101.
AQUIFER.--Valley fill.
WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 16 in., depth and casing information not available.
INSTRUMENTATION.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 4,279 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 1.20 ft above land-surface datum.
PERIOD OF RECORD.--May 1974 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.97 ft below land-surface datum, July 27, 1992; lowest measured, 47.49 ft below land-surface datum, July 26, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 27	44.86	JUL 15	45.12

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.--January 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 27	24.56	JUL 12	25.39

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.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 7,597 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 2.00 ft above land-surface datum.
PERIOD OF RECORD.--September 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.50 ft below land-surface datum, Jan. 16, 1994; lowest measured, 77.33 ft below land-surface datum, Aug. 9, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 10	71.42	SEP 07	72.00

Sunshine Valley

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.--Periodic steel-tape measurements.
DATUM.--Elevation of land-surface datum is 7,628 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 3.00 ft above land-surface datum.
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.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 10	185.79	SEP 07	186.32

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.
REMARKS.--"P" indicates well pumping.
PERIOD OF RECORD.--February 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, 139.43P ft below land-surface datum, Sept. 14, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	105.22	SEP 14	139.43P

Estancia Valley

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. plug in south side of discharge pipe, 1.80 ft above land-surface datum.
REMARKS.--"P" indicates well pumping.
PERIOD OF RECORD.--March 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, 165.70P ft below land-surface datum, Sept. 14, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	133.05	SEP 14	165.70P

Estancia Valley

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.--February 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, 99.17 ft below land-surface datum, Sept. 14, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	93.64	SEP 14	99.17

Estancia Valley

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, 43.26 ft below land-surface datum, Sept. 2, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	24.65	SEP 14	34.15

TORRANCE COUNTY—Continued

Estancia Valley

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.--February 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, 78.48 ft below land-surface datum, Sept. 14, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 26	70.07	SEP 14	78.48

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 Formations.
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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 08	152.08	AUG 23	151.44

Clayton Area

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, 108.42 ft below land-surface datum, Aug. 24, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 09	107.79	AUG 24	108.42

Clayton Area

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.--December 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 24	94.09	MAR 10	93.95

UNION COUNTY—Continued

Clayton Area

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.
REMARKS.--"P" indicates well pumping.
PERIOD OF RECORD.--February 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, 103.25P ft below land-surface datum, Mar. 10, 2004.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 24	103.80	MAR 10	103.25P

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, August 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 2003 TO SEPTEMBER 2004

DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 24	36.12	MAR 10	35.61

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

EXPLANATION OF GEOLOGIC UNIT (AQUIFER) CODES
(LISTED FROM YOUNGEST TO OLDEST AGE; U-UPPER, M-MIDDLE, L-LOWER)

110 ALVM	Cenozoic, Quaternary, alluvium
110 AVMB	Cenozoic, Quaternary, alluvium, bolson deposits, and other surface deposits
110 BLSN	Cenozoic, Quaternary, bolson fill
112 SNTF	Cenozoic, Quaternary, Pleistocene, Santa Fe Group
121 OGLL	Cenozoic, Tertiary, Ogallala Formation
211 MVRD	Mesozoic, Upper Cretaceous, Mesaverde Group
313 SADG	Paleozoic, Permian, Guadalupian, San Andres Limestone and Glorieta Sandstone
318 ABO U	Paleozoic, Lower Permian, Leonardian, Abo Sandstone (Upper Tongue)
318 ABO L	Paleozoic, Lower Permian, Leonardian, Abo Sandstone (Lower Tongue)
325 MDER	Paleozoic, Middle Pennsylvanian, Des Moinesian Madera Limestone
400 PCMB	Paleozoic, Precambrian, Precambrian Erathem

LOCAL IDENTIFIER,--Indicates location by New Mexico or Texas local well number. If the area is not included in a public survey, location is 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.

BERNALILLO COUNTY

Local identifier	Station number	County	Station type	Date	Time	Geologic unit	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Pump or flow period prior to sampling, minutes (72004)
10N.05E.14.312	350531106224301	001	GW	11-21-03	1140	211MVRD	160	66.24	6,488	--
11N.05E.24.412	350949106211801	001	GW	11-21-03	0920	313SADG	260	195.58	6,958	25
11N.06E.26.344	350835106161501	001	GW	12-15-03	1610	325MDER	175	--	6,843.00	--
11N.06E.34.322	350802106172201	001	GW	12-15-03	1010	325MDER	900	453.30	6,894.00	--

Local identifier	Date	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
10N.05E.14.312	11-21-03	1.0	7.0	1,440	15.0	13.6	380	690	215	37.2	1.86
11N.05E.24.412	11-21-03	>1.0	7.3	491	8.0	11.7	11	250	87.1	7.35	.70
11N.06E.26.344	12-15-03	>1.0	7.5	628	-1.0	12.3	120	290	81.9	19.9	2.06
11N.06E.34.322	12-15-03	.2	8.4	928	-1.5	16.5	--	37	7.19	4.52	4.52

Local identifier	Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)
10N.05E.14.312	11-21-03	.7	39.6	316	.38	172	.3	20.9	225	904	866
11N.05E.24.412	11-21-03	.2	6.11	237	.08	10.1	.3	15.7	15.2	287	281
11N.06E.26.344	12-15-03	.4	16.8	165	.41	56.3	.4	26.2	41.8	383	350
11N.06E.34.322	12-15-03	15	210	431	.19	10.3	10.0	9.80	39.0	556	561

Local identifier	Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)	Total nitrogen, wat flt by analysis, mg/L (62854)	Organic carbon, water, unfltrd mg/L (00680)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)
10N.05E.14.312	11-21-03	<.04	.28	<.008	.018	.006	.28	9.8	<2	E.12	.5
11N.05E.24.412	11-21-03	<.04	.34	<.008	.031	.010	.32	3.0	E1	<.20	.3
11N.06E.26.344	12-15-03	<.04	8.48	<.008	.021	.007	8.55	1.2	E2	<.20	2.2
11N.06E.34.322	12-15-03	E.03	<.06	<.008	--	<.006	<.03	1.3	E2	<.20	E.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

BERNALILLO COUNTY—CONTINUED

Local identifier	Date	Barium, water, fltrd, ug/L (01005)	Beryll-ium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chrom-ium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)
10N.05E.14.312	11-21-03	64	<.06	37	E.04	<.8	.717	18.7	<6	.21	25.0
11N.05E.24.412	11-21-03	144	<.06	10	<.04	<.8	.275	.8	<6	E.05	4.2
11N.06E.26.344	12-15-03	116	<.06	57	<.04	<.8	.210	1.0	E4	.23	34.5
11N.06E.34.322	12-15-03	49	<.06	359	<.04	<.8	.022	<.4	195	<.08	710

Local identifier	Date	Mangan-ese, water, fltrd, ug/L (01056)	Molyb-denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen-ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Stront-ium, water, fltrd, ug/L (01080)	Thall-ium, water, fltrd, ug/L (01057)	Vanad-ium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Deu-terium/ Protium ratio, water, unfltrd per mil (82082)
10N.05E.14.312	11-21-03	5.2	1.4	5.59	1.7	<.2	1,240	<.04	1.5	3.4	-80.24
11N.05E.24.412	11-21-03	<.2	.5	1.90	.7	<.2	231	<.04	1.4	8.7	-85.26
11N.06E.26.344	12-15-03	.3	.5	1.07	4.4	<.2	696	<.04	8.9	4.5	-76.14
11N.06E.34.322	12-15-03	5.7	.9	.56	<.4	<.2	335	<.04	1.0	.8	-96.21

Local identifier	Date	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Uranium natural water, fltrd, ug/L (22703)
10N.05E.14.312	11-21-03	-11.34	4.86
11N.05E.24.412	11-21-03	-12.13	1.70
11N.06E.26.344	12-15-03	-10.43	2.81
11N.06E.34.322	12-15-03	-13.25	.48

Remark codes used in this table:
< -- Less than
> -- Greater than
E -- Estimated value

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

CURRY COUNTY

Local identifier	Station number	County	Station type	Date	Time	Geologic unit	Depth of well, feet below LSD (72008)	Alti-tude of land surface feet (72000)	C-13 / C-12 ratio, water, unfltrd per mil (82081)	C-14 countng error, water, fltrd, percent modern (49934)
02N.34E.13.1111	342418103201201	009	GW	09-01-04	1510	121OGLL	--	4,328.3	-3.85	.430
		009	GW	09-01-04	1810	121OGLL	--	4,328.3	-3.90	.410
02N.35E.17.3121	342348103175801	009	GW	08-31-04	1400	121OGLL	--	4,300.3	-7.17	.420
02N.35E.18.434	342328103182401	009	GW	09-02-04	1030	121OGLL	365.92	4,277.04	-4.83	.410
02N.35E.30.423	342157103181701	009	GW	09-02-04	1445	121OGLL	354.87	4,265	-7.30	.450

Local identifier	Date	C-14, water, fltrd, percent modern (49933)
02N.34E.13.1111	09-01-04	56.24
	09-01-04	57.35
02N.35E.17.3121	08-31-04	56.37
02N.35E.18.434	09-02-04	55.32
02N.35E.30.423	09-02-04	59.22

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

DONA ANA COUNTY

Local identifier	Station number	County	Station type	Date	Time	Geologic unit	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Barometric pressure, mm Hg (00025)
18S.04W.17.4322	324419107160801	013	GW	05-13-04	1230	110ALVM	23.08	18.77	4,090.	655
19S.02W.17.1414	323930107041401	013	GW	05-11-04	1000	110ALVM	23.25	20.02	4,030.	653
19S.04W.01.214	324122107120801	013	GW	05-14-04	1020	110ALVM	22.04	17.34	4,062.	660
20S.02W.02.1444	323601107010001	013	GW	05-11-04	1600	110ALVM	14.89	6.68	4,008.	652
20S.05E.34.333	323104106253901	013	GW	03-31-04	1030	110BLSN	--	--	4,180.73	--
21S.01W.14.313	322841106551601	013	GW	01-29-04	1300	110AVMB	28.5	--	3,960	--
		013	GW	02-02-04	1230	110AVMB	28.5	--	3,960	--
21S.04E.10.233	322947106311101	013	GW	10-08-03	1400	400PCMB	163	--	5,691.94	--
21S.04E.10.321	322943106312801	013	GW	10-08-03	0945	400PCMB	103	--	5,794.94	--
		013	GW	01-06-04	1025	400PCMB	103	--	5,794.94	--
		013	GW	07-07-04	1055	400PCMB	103	--	5,794.94	--
21S.04E.10.322A	322943106312301	013	GW	10-08-03	1025	400PCMB	155	--	5,755.18	--
21S.04E.10.324	322935106311801	013	GW	10-08-03	1525	400PCMB	135	--	5,679.70	--
		013	GW	07-06-04	1340	400PCMB	135	--	5,679.70	--
21S.04E.10.411B	322941106311301	013	GW	10-08-03	1340	400PCMB	85	--	5,691.25	--
21S.04E.10.411C	322941106311502	013	GW	10-08-03	1425	400PCMB	80	--	5,687.96	--
21S.04E.10.411D	322939106311701	013	GW	10-08-03	1215	400PCMB	110	--	5,695.75	--
21S.04E.10.411E	322943106311401	013	GW	10-08-03	1255	400PCMB	100	--	5,699.34	--
21S.04E.10.411G	322944106311601	013	GW	10-09-03	1535	400PCMB	158	--	5,723.32	--
		013	GW	07-06-04	1550	400PCMB	158	--	5,723.32	--
21S.04E.10.412	322943106310501	013	GW	10-08-03	1245	400PCMB	120	--	5,643.55	--
		013	GW	07-06-04	1450	400PCMB	120	--	5,643.55	--
21S.04E.10.413A	322938106311601	013	GW	10-08-03	1110	400PCMB	120	--	5,689.92	--
21S.04E.10.413B	322933106310901	013	GW	10-08-03	1650	400PCMB	110	--	5,619.35	--
		013	GW	04-08-04	1035	400PCMB	110	--	5,619.35	--
21S.04E.10.414A	322938106310801	013	GW	10-08-03	1550	400PCMB	102	--	5,642.92	--
21S.04E.10.414B	322937106310901	013	GW	10-08-03	1630	400PCMB	103	--	5,641.18	--
21S.04E.10.414C	322936106311001	013	GW	10-08-03	1510	400PCMB	110	--	5,641.49	--
21S.04E.10.414D	322937106310902	013	GW	10-09-03	0940	400PCMB	159	--	5,637.96	--
21S.04E.10.421	322939106305701	013	GW	10-08-03	1025	400PCMB	200	--	5,568.09	--
		013	GW	04-08-04	1315	400PCMB	200	--	5,568.09	--
21S.04E.10.422	322940106305101	013	GW	10-09-03	1430	400PCMB	200	--	5,531.54	--
		013	GW	04-08-04	1230	400PCMB	200	--	5,531.54	--
		013	GW	07-07-04	0855	400PCMB	200	--	5,531.54	--
21S.04E.10.423	322935106310301	013	GW	10-09-03	1020	400PCMB	147	--	5,594.83	--
		013	GW	04-08-04	1130	400PCMB	147	--	5,594.83	--
21S.04E.10.434	322924106310501	013	GW	10-09-03	1645	400PCMB	110	--	5,557.15	--
		013	GW	04-08-04	0930	400PCMB	110	--	5,557.15	--
21S.04E.10.441	322932106305601	013	GW	10-09-03	1115	400PCMB	130	--	5,536.59	--
		013	GW	04-07-04	1645	400PCMB	130	--	5,536.59	--
21S.04E.10.442	322927106305101	013	GW	10-09-03	1650	400PCMB	179	--	5,494.5	--
		013	GW	04-07-04	1550	400PCMB	179	--	5,494.5	--
21S.04E.11.333	322923106304601	013	GW	10-09-03	1800	400PCMB	145	--	5,451.22	--
		013	GW	04-07-04	1450	400PCMB	145	--	5,451.22	--
21S.04E.11.343	322924106302601	013	GW	10-09-03	1250	400PCMB	75	--	5,343.77	--
		013	GW	01-06-04	1145	400PCMB	75	--	5,343.77	--
		013	GW	04-07-04	1100	400PCMB	75	--	5,343.77	--
		013	GW	07-07-04	0955	400PCMB	75	--	5,343.77	--
21S.04E.13.143	322857106292801	013	GW	10-09-03	1405	400PCMB	99	--	4,956.87	--
		013	GW	10-10-03	1405	400PCMB	99	--	4,956.87	--
		013	GW	01-07-04	1550	400PCMB	99	--	4,956.87	--
		013	GW	04-06-04	1530	400PCMB	99	--	4,956.87	--
		013	GW	07-07-04	1440	400PCMB	99	--	4,956.87	--
21S.04E.13.232	322901106290101	013	GW	10-07-03	1245	400PCMB	144.6	--	4,834.79	--
		013	GW	01-06-04	1535	400PCMB	144.6	--	4,834.79	--
		013	GW	04-06-04	1300	400PCMB	144.6	--	4,834.79	--
21S.04E.13.331	322837106294301	013	GW	10-09-03	1025	400PCMB	136.8	--	4,993.49	--
		013	GW	01-06-04	1505	400PCMB	136.8	--	4,993.49	--
		013	GW	04-06-04	1245	400PCMB	136.8	--	4,993.49	--
		013	GW	07-07-04	1250	400PCMB	136.8	--	4,993.49	--
21S.04E.14.114	322910106303601	013	GW	10-09-03	1320	400PCMB	161	--	5,355.16	--
		013	GW	01-07-04	1630	400PCMB	161	--	5,355.16	--
		013	GW	04-07-04	1330	400PCMB	161	--	5,355.16	--
		013	GW	07-06-04	1630	400PCMB	161	--	5,355.16	--
21S.04E.14.122	322913106301801	013	GW	10-09-03	1215	400PCMB	72	--	5,269	--
		013	GW	01-06-04	1255	400PCMB	72	--	5,269	--
		013	GW	04-07-04	1240	400PCMB	72	--	5,269	--
		013	GW	07-08-04	1450	400PCMB	72	--	5,269	--
21S.04E.14.142	322902106302201	013	GW	10-09-03	1145	400PCMB	85	--	5,251.66	--
		013	GW	01-06-04	1355	400PCMB	85	--	5,251.66	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

DONA ANA COUNTY—CONTINUED

Local identifier	Date	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, air, deg C (00020)	Temper-ature, water, deg C (00010)	Noncarb hard-ness, wat flt field, mg/L as CaCO3 (00904)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)
18S.04W.17.4322	05-13-04	2.5	31	7.4	2,030	--	18.2	230	590	180	34.6
19S.02W.17.1414	05-11-04	.1	1	7.1	1,600	29.2	19.8	220	540	173	25.7
19S.04W.01.214	05-14-04	2.4	31	7.2	1,640	18.3	21.0	350	550	173	27.3
20S.02W.02.1444	05-11-04	<.1	--	7.7	1,300	24.6	18.7	97	320	95.3	19.7
20S.05E.34.333	03-31-04	3.1	--	7.3	881	--	26.4	--	420	85.2	48.9
21S.01W.14.313	01-29-04	--	--	--	--	--	--	--	--	--	--
	02-02-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.233	10-08-03	.1	--	7.5	977	--	19.8	--	400	113	28.4
21S.04E.10.321	10-08-03	.6	--	7.2	876	--	19.1	--	380	110	26.3
	01-06-04	.9	--	7.2	861	--	18.5	--	--	--	--
	07-07-04	.2	--	7.2	883	--	20.0	--	--	--	--
21S.04E.10.322A	10-08-03	1.3	--	7.1	965	--	19.7	--	390	111	28.3
21S.04E.10.324	10-08-03	.3	--	7.1	722	--	19.9	--	280	81.0	19.4
	07-06-04	.5	--	7.3	733	--	21.1	--	--	--	--
21S.04E.10.411B	10-08-03	5.2	--	7.4	950	--	19.9	--	380	106	28.3
21S.04E.10.411C	10-08-03	2.2	--	7.7	920	--	19.8	--	370	101	27.1
21S.04E.10.411D	10-08-03	3.7	--	7.2	941	--	19.8	--	380	103	29.6
21S.04E.10.411E	10-08-03	5.0	--	7.2	996	--	19.8	--	400	114	28.4
21S.04E.10.411G	10-09-03	.4	--	7.0	1,040	--	19.9	--	420	122	27.7
	07-06-04	.3	--	7.3	1,030	--	20.7	--	--	--	--
21S.04E.10.412	10-08-03	1.3	--	6.9	997	--	19.9	--	410	120	26.8
	07-06-04	.8	--	7.2	1,010	--	20.8	--	--	--	--
21S.04E.10.413A	10-08-03	3.9	--	7.3	877	--	20.0	--	350	97.6	26.2
21S.04E.10.413B	10-08-03	.5	--	7.2	893	--	19.9	--	370	107	24.8
	04-08-04	.4	--	7.5	897	--	19.9	--	--	--	--
21S.04E.10.414A	10-08-03	5.8	--	7.6	995	--	20.0	--	390	114	26.6
21S.04E.10.414B	10-08-03	6.2	--	7.7	990	--	20.0	--	390	113	26.3
21S.04E.10.414C	10-08-03	5.1	--	7.5	994	--	19.9	--	390	113	27.3
21S.04E.10.414D	10-09-03	4.7	--	7.2	990	--	20.4	--	380	109	25.7
21S.04E.10.421	10-08-03	6.2	--	7.2	905	--	22.0	--	360	101	26.4
	04-08-04	7.0	--	7.4	891	--	21.9	--	--	--	--
21S.04E.10.422	10-09-03	.8	--	7.1	945	--	20.9	--	360	103	25.0
	04-08-04	.3	--	7.5	931	--	20.7	--	--	--	--
	07-07-04	.4	--	7.3	935	--	21.1	--	--	--	--
21S.04E.10.423	10-09-03	6.3	--	7.3	993	--	20.4	--	380	109	25.8
	04-08-04	5.9	--	7.4	995	--	20.1	--	--	--	--
21S.04E.10.434	10-09-03	4.5	--	7.0	861	--	19.4	--	330	96.2	22.2
	04-08-04	4.9	--	7.3	838	--	19.1	--	--	--	--
21S.04E.10.441	10-09-03	7.0	--	7.2	863	--	20.5	--	330	94.6	21.8
	04-07-04	7.0	--	7.6	859	--	20.6	--	--	--	--
21S.04E.10.442	10-09-03	.6	--	7.2	749	--	20.6	--	300	85.7	22.0
	04-07-04	.3	--	7.8	741	--	20.7	--	--	--	--
21S.04E.11.333	10-09-03	5.2	--	7.1	859	--	20.2	--	310	93.0	20.0
	04-07-04	5.7	--	7.6	838	--	20.4	--	--	--	--
21S.04E.11.343	10-09-03	4.0	--	7.1	892	--	20.3	--	340	101	20.6
	01-06-04	7.2	--	7.3	859	--	19.9	--	--	--	--
	04-07-04	5.5	--	7.6	837	--	20.2	--	--	--	--
	07-07-04	4.6	--	7.3	861	--	20.6	--	--	--	--
21S.04E.13.143	10-09-03	5.9	--	7.2	903	--	21.8	--	350	98.9	24.0
	10-10-03	5.9	--	7.2	903	--	21.8	--	--	--	--
	01-07-04	7.3	--	7.9	879	--	20.9	--	--	--	--
	04-06-04	5.2	--	7.7	886	--	21.1	--	--	--	--
	07-07-04	4.0	--	7.3	905	--	21.8	--	--	--	--
21S.04E.13.232	10-07-03	4.3	--	7.0	967	--	22.1	--	390	113	27.5
	01-06-04	.9	--	7.1	952	--	22.5	--	--	--	--
	04-06-04	--	--	7.1	968	--	22.9	--	--	--	--
21S.04E.13.331	10-09-03	3.1	--	7.1	782	--	21.5	--	300	94.8	14.3
	01-06-04	4.9	--	7.3	766	--	20.5	--	--	--	--
	04-06-04	2.6	--	7.6	767	--	20.9	--	--	--	--
	07-07-04	2.9	--	7.3	784	--	21.7	--	--	--	--
21S.04E.14.114	10-09-03	6.1	--	7.1	790	--	20.7	--	310	90.6	20.2
	01-07-04	6.5	--	7.8	769	--	20.3	--	--	--	--
	04-07-04	6.0	--	7.5	796	--	20.4	--	--	--	--
	07-06-04	4.7	--	7.3	815	--	20.6	--	--	--	--
21S.04E.14.122	10-09-03	4.5	--	7.1	841	--	20.1	--	310	88.8	21.3
	01-06-04	6.3	--	7.1	823	--	19.7	--	--	--	--
	04-07-04	4.7	--	7.4	837	--	20.3	--	--	--	--
	07-08-04	3.4	--	7.3	854	--	20.9	--	--	--	--
21S.04E.14.142	10-09-03	1.6	--	7.0	926	--	20.4	--	360	105	23.0
	01-06-04	3.0	--	7.2	894	--	19.9	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

DONA ANA COUNTY—CONTINUED

Local identifier	Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Alkalinity, wat flt Gran, field, mg/L as CaCO3 (29802)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)
18S.04W.17.4322	05-13-04	10.7	4	225	--	366	366	--	.31	173	1.6
19S.02W.17.1414	05-11-04	9.38	3	152	--	323	321	--	.19	130	1.1
19S.04W.01.214	05-14-04	11.3	3	155	--	192	193	--	.21	133	.8
20S.02W.02.1444	05-11-04	7.70	4	153	--	223	224	--	.23	122	.7
20S.05E.34.333	03-31-04	2.11	.8	35.5	210	--	--	256	.16	36.5	.6
21S.01W.14.313	01-29-04	--	--	--	--	--	--	--	--	--	--
	02-02-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.233	10-08-03	1.48	1	63.8	--	--	--	--	--	35.2	4.3
21S.04E.10.321	10-08-03	3.18	1	56.6	--	--	--	--	--	30.2	3.4
	01-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.322A	10-08-03	1.45	1	61.8	--	--	--	--	--	31.6	3.7
21S.04E.10.324	10-08-03	2.89	1	47.6	--	--	--	--	--	25.2	5.1
	07-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.411B	10-08-03	1.23	1	59.5	--	--	--	--	--	30.0	4.6
21S.04E.10.411C	10-08-03	1.34	1	57.8	--	--	--	--	--	30.0	4.6
21S.04E.10.411D	10-08-03	1.72	1	57.1	--	--	--	--	--	35.5	3.8
21S.04E.10.411E	10-08-03	1.06	1	62.5	--	--	--	--	--	39.3	.9
21S.04E.10.411G	10-09-03	1.29	1	68.8	--	--	--	--	--	33.6	4.4
	07-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.412	10-08-03	2.36	1	65.5	--	--	--	--	--	41.6	3.6
	07-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.413A	10-08-03	1.90	1	53.1	--	--	--	--	--	34.7	4.1
21S.04E.10.413B	10-08-03	1.95	1	58.2	--	--	--	--	--	40.5	3.9
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.414A	10-08-03	1.45	1	61.2	--	--	--	--	--	53.7	4.4
21S.04E.10.414B	10-08-03	.91	1	60.4	--	--	--	--	--	48.1	4.6
21S.04E.10.414C	10-08-03	1.31	1	61.5	--	--	--	--	--	48.0	4.2
21S.04E.10.414D	10-09-03	1.58	1	62.8	--	--	--	--	--	51.1	4.4
21S.04E.10.421	10-08-03	1.16	1	59.2	--	--	--	--	--	32.0	4.1
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.422	10-09-03	3.15	1	62.2	--	--	--	--	--	34.4	3.6
	04-08-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.423	10-09-03	1.50	1	58.9	--	--	--	--	--	41.7	3.8
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.434	10-09-03	1.79	1	53.4	--	--	--	--	--	32.7	4.6
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.441	10-09-03	1.17	1	57.7	--	--	--	--	--	35.3	4.8
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.442	10-09-03	2.27	1	42.0	--	--	--	--	--	32.9	3.5
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.11.333	10-09-03	1.08	1	57.7	--	--	--	--	--	35.9	5.2
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.11.343	10-09-03	1.03	1	63.0	--	--	--	--	--	38.1	4.7
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.13.143	10-09-03	1.33	2	65.6	--	--	--	--	--	37.7	4.3
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.13.232	10-07-03	1.62	1	65.3	--	--	--	--	--	36.5	3.8
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.13.331	10-09-03	1.89	1	56.2	--	--	--	--	--	27.3	4.6
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.14.114	10-09-03	.93	1	59.1	--	--	--	--	--	28.2	5.1
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
	07-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.14.122	10-09-03	.98	1	59.5	--	--	--	--	--	32.5	5.0
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.14.142	10-09-03	1.12	1	65.0	--	--	--	--	--	37.7	4.8
	01-06-04	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

DONA ANA COUNTY—CONTINUED

Local identifier	Date	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti-tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite + nitrate water unfltrd mg/L as N (00630)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L (00660)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)
18S.04W.17.4322	05-13-04	23.3	441	1,330	1,190	E.04	3.22	--	E.004	.067	.022
19S.02W.17.1414	05-11-04	26.3	340	1,060	998	<.04	1.42	--	.027	.061	.020
19S.04W.01.214	05-14-04	17.6	490	1,130	1,100	E.02	<.06	--	<.008	--	E.003
20S.02W.02.1444	05-11-04	17.3	228	781	791	E.02	.31	--	.017	.172	.056
20S.05E.34.333	03-31-04	25.2	191		549	--	--	2.70	--	--	--
21S.01W.14.313	01-29-04	--	--	--	--	--	--	--	--	--	--
	02-02-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.233	10-08-03	23.2	209		625	--	--	--	--	--	--
21S.04E.10.321	10-08-03	26.5	132		540	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.322A	10-08-03	23.3	196		645	--	--	--	--	--	--
21S.04E.10.324	10-08-03	24.2	107		451	--	--	--	--	--	--
	07-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.411B	10-08-03	24.7	172		632	--	--	--	--	--	--
21S.04E.10.411C	10-08-03	24.5	155		608	--	--	--	--	--	--
21S.04E.10.411D	10-08-03	23.1	179		628	--	--	--	--	--	--
21S.04E.10.411E	10-08-03	24.0	175		669	--	--	--	--	--	--
21S.04E.10.411G	10-09-03	23.8	210		660	--	--	--	--	--	--
	07-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.412	10-08-03	20.8	190		651	--	--	--	--	--	--
	07-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.413A	10-08-03	22.8	147		575	--	--	--	--	--	--
21S.04E.10.413B	10-08-03	20.8	149		590	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.414A	10-08-03	23.3	165		662	--	--	--	--	--	--
21S.04E.10.414B	10-08-03	22.9	164		664	--	--	--	--	--	--
21S.04E.10.414C	10-08-03	22.6	168		665	--	--	--	--	--	--
21S.04E.10.414D	10-09-03	23.0	166		654	--	--	--	--	--	--
21S.04E.10.421	10-08-03	22.7	178		594	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.422	10-09-03	23.4	192		617	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.423	10-09-03	20.5	165		633	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.434	10-09-03	23.9	131		548	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.441	10-09-03	22.3	141		568	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.442	10-09-03	27.4	135		463	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.11.333	10-09-03	21.6	140		539	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.11.343	10-09-03	23.5	158		564	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.13.143	10-09-03	24.1	176		572	--	--	--	--	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.13.232	10-07-03	28.8	196		633	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.13.331	10-09-03	29.3	142		503	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.14.114	10-09-03	25.0	125		501	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
	07-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.14.122	10-09-03	24.9	146		541	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.14.142	10-09-03	25.7	179		592	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

DONA ANA COUNTY—CONTINUED

Local identifier	Date	Total nitro-gen, wat flt by anal ysis, mg/L (62854)	Colipge F-spec, FAMP, 2-step, pres(1) abs(2) /L (99335)	Colipge som, Ec CN13hst 2-step, pres(1) abs(2) /L (99332)	Alum-inum, water, fltrd, ug/L (01106)	Anti-mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryll-ium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)
18S.04W.17.4322	05-13-04	3.47	--	--	E1	E.20	2.1	68	<.06	309	E.03
19S.02W.17.1414	05-11-04	1.74	--	--	M	.27	1.5	83	<.06	249	.06
19S.04W.01.214	05-14-04	.19	--	--	M	.21	1.0	102	<.06	175	E.04
20S.02W.02.1444	05-11-04	.47	--	--	E1	<.20	3.5	86	<.06	250	E.04
20S.05E.34.333	03-31-04	--	--	--	--	--	--	--	--	46	--
21S.01W.14.313	01-29-04	--	2	2	--	--	--	--	--	--	--
	02-02-04	--	2	2	--	--	--	--	--	--	--
21S.04E.10.233	10-08-03	--	--	--	--	--	--	--	--	39	--
21S.04E.10.321	10-08-03	--	--	--	--	--	--	--	--	37	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.322A	10-08-03	--	--	--	--	--	--	--	--	38	--
21S.04E.10.324	10-08-03	--	--	--	--	--	--	--	--	28	--
	07-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.411B	10-08-03	--	--	--	--	--	--	--	--	52	--
21S.04E.10.411C	10-08-03	--	--	--	--	--	--	--	--	65	--
21S.04E.10.411D	10-08-03	--	--	--	--	--	--	--	--	99	--
21S.04E.10.411E	10-08-03	--	--	--	--	--	--	--	--	44	--
21S.04E.10.411G	10-09-03	--	--	--	--	--	--	--	--	37	--
	07-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.412	10-08-03	--	--	--	--	--	--	--	--	40	--
	07-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.413A	10-08-03	--	--	--	--	--	--	--	--	34	--
21S.04E.10.413B	10-08-03	--	--	--	--	--	--	--	--	38	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.414A	10-08-03	--	--	--	--	--	--	--	--	39	--
21S.04E.10.414B	10-08-03	--	--	--	--	--	--	--	--	42	--
21S.04E.10.414C	10-08-03	--	--	--	--	--	--	--	--	40	--
21S.04E.10.414D	10-09-03	--	--	--	--	--	--	--	--	38	--
21S.04E.10.421	10-08-03	--	--	--	--	--	--	--	--	39	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.422	10-09-03	--	--	--	--	--	--	--	--	40	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.423	10-09-03	--	--	--	--	--	--	--	--	40	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.434	10-09-03	--	--	--	--	--	--	--	--	33	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.441	10-09-03	--	--	--	--	--	--	--	--	37	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.442	10-09-03	--	--	--	--	--	--	--	--	30	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.11.333	10-09-03	--	--	--	--	--	--	--	--	37	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.11.343	10-09-03	--	--	--	--	--	--	--	--	41	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.13.143	10-09-03	--	--	--	--	--	--	--	--	43	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.13.232	10-07-03	--	--	--	--	--	--	--	--	42	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.13.331	10-09-03	--	--	--	--	--	--	--	--	45	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.14.114	10-09-03	--	--	--	--	--	--	--	--	33	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
	07-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.14.122	10-09-03	--	--	--	--	--	--	--	--	35	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.14.142	10-09-03	--	--	--	--	--	--	--	--	36	--
	01-06-04	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

DONA ANA COUNTY—CONTINUED

Local identifier	Date	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)
18S.04W.17.4322	05-13-04	<.8	.635	4.5	<6	<.08	200	12.6	9.6	5.06	2.7
19S.02W.17.1414	05-11-04	<.8	.613	3.6	10	<.08	163	456	10.4	5.42	1.1
19S.04W.01.214	05-14-04	<.8	.549	3.7	12	<.08	136	59.5	7.9	4.73	2.8
20S.02W.02.1444	05-11-04	<.8	.612	2.2	<6	<.08	113	430	10.8	2.99	.4
20S.05E.34.333	03-31-04	--	--	--	17	--	10	--	--	--	--
21S.01W.14.313	01-29-04	--	--	--	--	--	--	--	--	--	--
	02-02-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.233	10-08-03	--	--	--	<6	--	--	--	--	--	--
21S.04E.10.321	10-08-03	--	--	--	71	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.322A	10-08-03	--	--	--	<6	--	--	--	--	--	--
21S.04E.10.324	10-08-03	--	--	--	<6	--	--	--	--	--	--
	07-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.411B	10-08-03	--	--	--	<6	--	--	--	--	--	--
21S.04E.10.411C	10-08-03	--	--	--	<6	--	--	--	--	--	--
21S.04E.10.411D	10-08-03	--	--	--	E4	--	--	--	--	--	--
21S.04E.10.411E	10-08-03	--	--	--	<6	--	--	--	--	--	--
21S.04E.10.411G	10-09-03	--	--	--	<6	--	--	--	--	--	--
	07-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.412	10-08-03	--	--	--	<6	--	--	--	--	--	--
	07-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.413A	10-08-03	--	--	--	<6	--	--	--	--	--	--
21S.04E.10.413B	10-08-03	--	--	--	<6	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.414A	10-08-03	--	--	--	<6	--	--	--	--	--	--
21S.04E.10.414B	10-08-03	--	--	--	<6	--	--	--	--	--	--
21S.04E.10.414C	10-08-03	--	--	--	<6	--	--	--	--	--	--
21S.04E.10.414D	10-09-03	--	--	--	<6	--	--	--	--	--	--
21S.04E.10.421	10-08-03	--	--	--	<6	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.422	10-09-03	--	--	--	<6	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.423	10-09-03	--	--	--	<6	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.434	10-09-03	--	--	--	<6	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.441	10-09-03	--	--	--	<6	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.10.442	10-09-03	--	--	--	<6	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.11.333	10-09-03	--	--	--	<6	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.11.343	10-09-03	--	--	--	<6	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.13.143	10-09-03	--	--	--	<6	--	--	--	--	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.13.232	10-07-03	--	--	--	E4	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.13.331	10-09-03	--	--	--	<6	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.14.114	10-09-03	--	--	--	E5	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
	07-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.14.122	10-09-03	--	--	--	<6	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.14.142	10-09-03	--	--	--	<6	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

DONA ANA COUNTY—CONTINUED

Local identifier	Date	Silver, water, fltrd, ug/L (01075)	Stront-ium, water, fltrd, ug/L (01080)	Thall-ium, water, fltrd, ug/L (01057)	Vanad-ium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Deu-terium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Uranium natural water, fltrd, ug/L (22703)
18S.04W.17.4322	05-13-04	<.2	1,720	<.04	3.3	1.6	-64.10	-7.17	20.2
19S.02W.17.1414	05-11-04	<.2	1,770	E.03	2.9	2.5	-61.50	-6.58	10.5
19S.04W.01.214	05-14-04	<.2	1,670	<.04	1.1	1.6	-59.60	-6.17	5.25
20S.02W.02.1444	05-11-04	<.2	1,140	E.03	1.8	1.2	-59.70	-6.42	3.55
20S.05E.34.333	03-31-04	--	968	--	--	--	--	--	--
21S.01W.14.313	01-29-04	--	--	--	--	--	--	--	--
	02-02-04	--	--	--	--	--	--	--	--
21S.04E.10.233	10-08-03	--	--	--	--	--	--	--	--
21S.04E.10.321	10-08-03	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--
21S.04E.10.322A	10-08-03	--	--	--	--	--	--	--	--
21S.04E.10.324	10-08-03	--	--	--	--	--	--	--	--
	07-06-04	--	--	--	--	--	--	--	--
21S.04E.10.411B	10-08-03	--	--	--	--	--	--	--	--
21S.04E.10.411C	10-08-03	--	--	--	--	--	--	--	--
21S.04E.10.411D	10-08-03	--	--	--	--	--	--	--	--
21S.04E.10.411E	10-08-03	--	--	--	--	--	--	--	--
21S.04E.10.411G	10-09-03	--	--	--	--	--	--	--	--
	07-06-04	--	--	--	--	--	--	--	--
21S.04E.10.412	10-08-03	--	--	--	--	--	--	--	--
	07-06-04	--	--	--	--	--	--	--	--
21S.04E.10.413A	10-08-03	--	--	--	--	--	--	--	--
21S.04E.10.413B	10-08-03	--	--	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--
21S.04E.10.414A	10-08-03	--	--	--	--	--	--	--	--
21S.04E.10.414B	10-08-03	--	--	--	--	--	--	--	--
21S.04E.10.414C	10-08-03	--	--	--	--	--	--	--	--
21S.04E.10.414D	10-09-03	--	--	--	--	--	--	--	--
21S.04E.10.421	10-08-03	--	--	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--
21S.04E.10.422	10-09-03	--	--	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--
21S.04E.10.423	10-09-03	--	--	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--
21S.04E.10.434	10-09-03	--	--	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--
21S.04E.10.441	10-09-03	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--
21S.04E.10.442	10-09-03	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--
21S.04E.11.333	10-09-03	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--
21S.04E.11.343	10-09-03	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--
21S.04E.13.143	10-09-03	--	--	--	--	--	--	--	--
	10-10-03	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--
21S.04E.13.232	10-07-03	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--
21S.04E.13.331	10-09-03	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--
21S.04E.14.114	10-09-03	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--
	07-06-04	--	--	--	--	--	--	--	--
21S.04E.14.122	10-09-03	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--
21S.04E.14.142	10-09-03	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

DONA ANA COUNTY—CONTINUED

Local identifier	Station number	County	Station type	Date	Time	Geologic unit	Depth of well, feet below LSD (72008)	Depth to bot sample intrval feet below LSD (72016)	Depth to top sample intrval feet below LSD (72015)	Depth to water level, feet below LSD (72019)
21S.04E.14.142	322902106302201	013	GW	04-06-04	1110	400PCMB	85	--	--	--
		013	GW	07-07-04	1150	400PCMB	85	--	--	--
21S.04E.14.223	322906106300301	013	GW	10-09-03	1230	400PCMB	145	--	--	--
		013	GW	10-10-03	1230	400PCMB	145	--	--	--
		013	GW	01-06-04	1605	400PCMB	145	--	--	--
		013	GW	04-06-04	1415	400PCMB	145	--	--	--
		013	GW	07-07-04	1345	400PCMB	145	--	--	--
21S.04E.15.422	322848106305501	013	GW	10-09-03	1020	400PCMB	107	--	--	--
		013	GW	10-10-03	1020	400PCMB	107	--	--	--
		013	GW	01-07-04	0950	400PCMB	107	--	--	--
		013	GW	07-08-04	1200	400PCMB	107	--	--	--
21S.04E.22.222	322310106305101	013	GW	10-09-03	1825	400PCMB	--	--	--	--
		013	GW	10-10-03	1825	--	--	--	--	--
		013	GW	01-05-04	1525	--	--	--	--	--
		013	GW	04-06-04	1420	--	--	--	--	--
21S.04E.23.233B	322804106301701	013	GW	10-09-03	1440	400PCMB	180	--	--	--
		013	GW	01-07-04	1110	400PCMB	180	--	--	--
		013	GW	07-08-04	1300	400PCMB	180	--	--	--
21S.04E.23.233C	322800106300901	013	GW	10-09-03	1530	400PCMB	100	--	--	--
		013	GW	01-07-04	1210	400PCMB	100	--	--	--
		013	GW	07-08-04	1350	400PCMB	100	--	--	--
21S.04E.23.432	322745106300201	013	GW	10-07-03	1135	400PCMB	139	--	--	--
		013	GW	01-06-04	0945	400PCMB	139	--	--	--
		013	GW	04-06-04	1600	400PCMB	139	--	--	--
21S.04E.25.311	322702106294401	013	GW	10-06-03	1310	400PCMB	97	--	--	--
		013	GW	01-06-04	1220	400PCMB	97	--	--	--
		013	GW	04-07-04	1430	400PCMB	97	--	--	--
21S.04E.25.412	322704106290601	013	GW	10-06-03	1140	400PCMB	159	--	--	--
		013	GW	01-06-04	1350	400PCMB	159	--	--	--
		013	GW	04-07-04	1330	400PCMB	159	--	--	--
21S.04E.35.222	322639106294701	013	GW	10-06-03	1455	400PCMB	138	--	--	--
		013	GW	01-06-04	1135	400PCMB	138	--	--	--
		013	GW	04-07-04	1550	400PCMB	138	--	--	--
21S.04E.35.232	322624106300201	013	GW	10-06-03	1600	400PCMB	119	--	--	--
		013	GW	01-06-04	1040	400PCMB	119	--	--	--
		013	GW	04-08-04	1010	400PCMB	119	--	--	--
21S.04E.35.422	322612106294901	013	GW	10-08-03	0915	400PCMB	149	--	--	--
		013	GW	01-07-04	1135	400PCMB	149	--	--	--
		013	GW	04-08-04	1210	400PCMB	149	--	--	--
21S.04E.36.411	322609106291401	013	GW	10-07-03	1730	400PCMB	199	--	--	--
		013	GW	01-07-04	1225	400PCMB	199	--	--	--
		013	GW	04-07-04	1220	400PCMB	199	--	--	--
21S.05E.17.334	322834106273201	013	GW	10-21-03	1348	400PCMB	516	--	--	--
		013	GW	01-05-04	1455	110BLSN	516	--	--	--
		013	GW	07-08-04	1545	110BLSN	516	--	--	--
21S.05E.17.424	322838106264401	013	GW	03-30-04	1515	110BLSN	747	--	--	--
21S.05E.19.112	322823106283501	013	GW	10-09-03	1530	400PCMB	139	--	--	--
		013	GW	01-07-04	1445	400PCMB	139	--	--	--
		013	GW	04-06-04	1650	400PCMB	139	--	--	--
		013	GW	07-07-04	1540	400PCMB	139	--	--	--
21S.05E.19.212	322827106280101	013	GW	10-07-03	1405	400PCMB	183.8	--	--	--
		013	GW	01-06-04	1445	400PCMB	183.8	--	--	--
		013	GW	04-06-04	1140	400PCMB	183.8	--	--	--
21S.05E.20.434	322735106271301	013	GW	03-30-04	1150	110BLSN	580	--	--	--
21S.05E.30.122	322731106281901	013	GW	10-09-03	1725	400PCMB	125	--	--	--
		013	GW	01-07-04	1330	400PCMB	125	--	--	--
		013	GW	07-07-04	1640	400PCMB	125	--	--	--
22S.04E.01.223	322538106285701	013	GW	10-07-03	1555	400PCMB	159	--	--	--
		013	GW	01-07-04	1030	400PCMB	159	--	--	--
		013	GW	04-07-04	0945	400PCMB	159	--	--	--
22S.04E.01.431	322508106291001	013	GW	10-21-03	0910	400PCMB	419	--	--	--
		013	GW	01-06-04	0820	400PCMB	419	--	--	--
		013	GW	07-08-04	0905	400PCMB	419	--	--	--
26S.03E.20.423A	320141106390601	013	GW	10-30-03	0900	112SNTF	700.00	690	680	13.30
26S.03E.20.423B	320141106390602	013	GW	11-04-03	1030	112SNTF	1,880.00	1,870	1,860	21.66
27S.03E.20.432D	315622106391705	013	GW	11-05-03	1400	112SNTF	1,765.00	1,760	1,740	43.57

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

DONA ANA COUNTY—CONTINUED

Local identifier	Date	Altitude of land surface feet (72000)	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
21S.04E.14.142	04-06-04	5,251.66	--	--	--	1.8	--	7.5	902	--	19.9
	07-07-04	5,251.66	--	--	--	2.0	--	7.2	922	--	20.7
21S.04E.14.223	10-09-03	5,159.15	--	--	--	.2	--	7.3	914	--	21.4
	10-10-03	5,159.15	--	--	--	.2	--	7.3	914	--	21.4
	01-06-04	5,159.15	--	--	--	.9	--	7.4	895	--	20.1
	04-06-04	5,159.15	--	--	--	.1	--	7.7	875	--	20.5
	07-07-04	5,159.15	--	--	--	.2	--	7.4	905	--	21.5
21S.04E.15.422	10-09-03	5,368.81	--	--	--	2.6	--	6.9	892	--	20.0
	10-10-03	5,368.81	--	--	--	2.6	--	6.9	892	--	20.0
	01-07-04	5,368.81	--	--	--	2.5	--	7.7	860	--	19.5
	07-08-04	5,368.81	--	--	--	2.0	--	7.3	892	--	20.7
21S.04E.22.222	10-09-03	5,212.82	--	--	--	.8	--	7.0	660	--	21.1
	10-10-03	5,212.82	--	--	--	3.5	--	6.7	649	--	20.9
	01-05-04	5,212.82	--	--	--	3.5	--	6.7	649	--	20.9
	04-06-04	5,212.82	--	--	--	2.3	--	7.0	677	--	21.1
21S.04E.23.233B	10-09-03	5,043.16	--	--	--	7.1	--	7.2	733	--	21.5
	01-07-04	5,043.16	--	--	--	7.1	--	7.8	714	--	20.9
	07-08-04	5,043.16	--	--	--	6.0	--	7.5	743	--	22.5
21S.04E.23.233C	10-09-03	4,993.99	--	--	--	6.8	--	7.3	768	--	21.2
	01-07-04	4,993.99	--	--	--	7.0	--	7.9	746	--	20.9
	07-08-04	4,993.99	--	--	--	5.5	--	7.5	780	--	22.0
21S.04E.23.432	10-07-03	4,938.28	--	--	--	.3	--	7.0	715	--	22.9
	01-06-04	4,938.28	--	--	--	.6	--	7.3	710	--	22.2
	04-06-04	4,938.28	--	--	--	.7	--	7.3	712	--	23.5
21S.04E.25.311	10-06-03	4,798.49	--	--	--	.8	--	7.1	652	--	23.9
	01-06-04	4,798.49	--	--	--	.5	--	7.3	631	--	21.9
	04-07-04	4,798.49	--	--	--	1.1	--	7.3	656	--	22.6
21S.04E.25.412	10-06-03	4,618.42	--	--	--	.3	--	7.0	830	--	24.2
	01-06-04	4,618.42	--	--	--	.3	--	7.2	820	--	23.0
	04-07-04	4,618.42	--	--	--	.6	--	7.2	818	--	24.0
21S.04E.35.222	10-06-03	4,695.93	--	--	--	.9	--	7.1	628	--	24.5
	01-06-04	4,695.93	--	--	--	.5	--	7.2	629	--	24.2
	04-07-04	4,695.93	--	--	--	1.1	--	7.3	636	--	26.6
21S.04E.35.232	10-06-03	4,723.95	--	--	--	3.7	--	6.7	590	--	23.3
	01-06-04	4,723.95	--	--	--	3.0	--	6.9	589	--	22.5
	04-08-04	4,723.95	--	--	--	3.8	--	6.9	590	--	23.4
21S.04E.35.422	10-08-03	4,649.42	--	--	--	.4	--	7.0	720	--	24.0
	01-07-04	4,649.42	--	--	--	.3	--	7.3	701	--	23.3
	04-08-04	4,649.42	--	--	--	.5	--	7.3	722	--	24.4
21S.04E.36.411	10-07-03	4,513.63	--	--	--	.3	--	7.1	670	--	23.9
	01-07-04	4,513.63	--	--	--	.3	--	7.2	555	--	24.1
	04-07-04	4,513.63	--	--	--	1.3	--	7.2	630	--	25.6
21S.05E.17.334	10-21-03	4,366.45	--	--	--	5.2	--	7.1	778	--	26.1
	01-05-04	4,366.45	--	--	--	2.2	--	7.6	748	--	25.5
	07-08-04	4,366.45	--	--	--	4.2	--	7.5	790	--	26.2
21S.05E.17.424	03-30-04	4,196	--	--	--	3.6	--	7.3	808	--	26.5
21S.05E.19.112	10-09-03	4,637.73	--	--	--	5.7	--	7.2	742	--	21.8
	01-07-04	4,637.73	--	--	--	7.2	--	7.9	726	--	21.0
	04-06-04	4,637.73	--	--	--	5.0	--	7.7	729	--	21.5
	07-07-04	4,637.73	--	--	--	3.7	--	7.3	745	--	22.9
21S.05E.19.212	10-07-03	4,491.74	--	--	--	.6	--	7.2	778	--	25.2
	01-06-04	4,491.74	--	--	--	.4	--	7.3	765	--	23.2
	04-06-04	4,491.74	--	--	--	--	--	7.3	777	--	26.2
21S.05E.20.434	03-30-04	4,161.83	--	--	--	.5	--	9.3	357	--	26.0
21S.05E.30.122	10-09-03	4,502.11	--	--	--	4.5	--	7.0	788	--	22.1
	01-07-04	4,502.11	--	--	--	5.7	--	7.6	766	--	21.6
	07-07-04	4,502.11	--	--	--	3.1	--	7.1	789	--	22.8
22S.04E.01.223	10-07-03	4,406.41	--	--	--	1.3	--	6.9	826	--	24.9
	01-07-04	4,406.41	--	--	--	.4	--	7.1	784	--	24.4
	04-07-04	4,406.41	--	--	--	3.4	--	7.1	814	--	24.4
22S.04E.01.431	10-21-03	4,411.85	--	--	--	5.4	--	7.2	1,020	--	25.2
	01-06-04	4,411.85	--	--	--	2.2	--	7.6	1,020	--	24.5
	07-08-04	4,411.85	--	--	--	3.0	--	7.4	1,080	--	25.1
26S.03E.20.423A	10-30-03	3,796	5.0	180	663	.1	1	7.9	783	24.0	23.5
26S.03E.20.423B	11-04-03	3,796	3.2	926	666	.1	1	8.7	1,620	--	24.5
27S.03E.20.432D	11-05-03	3,780	4.6	435	668	<.1	--	8.3	8,540	16.6	34.0

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

DONA ANA COUNTY—CONTINUED

Local identifier	Date	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)
21S.04E.14.142	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.14.223	10-09-03	340	97.8	23.3	3.18	2	74.7	--	--	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.15.422	10-09-03	360	106	23.7	3.06	1	60.3	--	--	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.22.222	10-09-03	250	78.3	13.8	1.75	1	50.9	--	--	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-05-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.23.233B	10-09-03	280	88.7	13.8	1.73	1	51.5	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.23.233C	10-09-03	290	91.9	14.4	1.81	1	53.0	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.23.432	10-07-03	280	89.0	13.3	2.26	1	50.1	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.25.311	10-06-03	260	81.4	13.6	3.04	1	41.1	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.25.412	10-06-03	340	106	18.6	3.01	1	47.0	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.35.222	10-06-03	240	77.3	12.3	2.70	1	39.4	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.35.232	10-06-03	230	70.6	11.9	1.54	1	39.6	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.35.422	10-08-03	260	84.8	12.1	2.54	1	50.8	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.36.411	10-07-03	230	73.8	10.5	2.26	2	52.5	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.05E.17.334	10-21-03	270	76.6	19.8	2.94	1	56.1	--	--	--	--
	01-05-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.05E.17.424	03-30-04	390	93.5	36.8	1.87	.7	31.3	223	--	--	272
21S.05E.19.112	10-09-03	280	90.4	14.3	2.07	1	49.9	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.05E.19.212	10-07-03	310	95.1	18.4	4.37	1	48.3	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.05E.20.434	03-30-04	38	7.29	4.71	2.98	4	58.3	49	--	--	31
21S.05E.30.122	10-09-03	310	98.4	15.2	1.91	1	50.8	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
22S.04E.01.223	10-07-03	310	107	11.1	3.42	2	63.0	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
22S.04E.01.431	10-21-03	420	130	22.7	3.77	1	48.1	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
26S.03E.20.423A	10-30-03	92	26.6	6.05	3.56	7	155	--	230	281	--
26S.03E.20.423B	11-04-03	22	6.61	1.14	3.52	31	333	--	140	160	--
27S.03E.20.432D	11-05-03	760	295	3.21	11.2	28	1,740	--	E28	E32	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

DONA ANA COUNTY—CONTINUED

Local identifier	Date	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
21S.04E.14.142	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.14.223	10-09-03	--	--	45.3	4.6	29.2	156		555	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.15.422	10-09-03	--	--	30.4	4.4	27.0	147		546	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.22.222	10-09-03	--	--	24.9	4.1	33.3	110	424	422	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-05-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.23.233B	10-09-03	--	--	27.2	4.0	32.0	132		483	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.23.233C	10-09-03	--	--	32.4	3.9	31.3	144		500	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.23.432	10-07-03	--	--	27.0	3.7	25.0	139		443	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.25.311	10-06-03	--	--	16.2	4.2	26.7	102		410	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.25.412	10-06-03	--	--	37.7	2.7	31.8	186		551	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.35.222	10-06-03	--	--	19.0	4.2	33.6	91.9		395	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.35.232	10-06-03	--	--	15.5	4.6	39.3	81.0		383	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.35.422	10-08-03	--	--	34.9	3.5	32.2	129		445	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.36.411	10-07-03	--	--	24.4	2.6	25.2	60.2		354	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.05E.17.334	10-21-03	--	--	30.6	2.6	34.3	149		520	--	--
	01-05-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.05E.17.424	03-30-04	--	.15	27.1	1.8	35.3	161		478	--	--
21S.05E.19.112	10-09-03	--	--	26.7	3.7	32.8	141		492	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.05E.19.212	10-07-03	--	--	29.1	2.7	32.2	158		510	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.05E.20.434	03-30-04	--	.20	35.9	1.9	1.2	58.8	201	201	--	--
21S.05E.30.122	10-09-03	--	--	28.3	3.9	33.7	134		519	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
22S.04E.01.223	10-07-03	--	--	22.6	3.7	37.8	97.1		479	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
22S.04E.01.431	10-21-03	--	--	109	2.2	35.3	208		702	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
26S.03E.20.423A	10-30-03	.0	--	46.4	.5	44.3	117	539	535	E.04	<.06
26S.03E.20.423B	11-04-03	5	--	240	5.1	19.4	261	955	970	.12	<.06
27S.03E.20.432D	11-05-03	.0	--	1,610	2.8	36.9	2,180	5,900	6,100	.49	<.06

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

DONA ANA COUNTY—CONTINUED

Local identifier	Date	Nitrite + nitrate water unfltrd mg/L as N (00630)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L (00660)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, fltrd, mg/L (00666)	Total nitro-gen, wat flt by anal ysis, mg/L (62854)	Organic carbon, water, fltrd, mg/L (00681)	Alum-inum, water, fltrd, ug/L (01106)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)
21S.04E.14.142	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.14.223	10-09-03	--	--	--	--	--	--	--	--	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.15.422	10-09-03	--	--	--	--	--	--	--	--	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.22.222	10-09-03	--	--	--	--	--	--	--	--	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-05-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.23.233B	10-09-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.23.233C	10-09-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.23.432	10-07-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.25.311	10-06-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.25.412	10-06-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.35.222	10-06-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.35.232	10-06-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.35.422	10-08-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.36.411	10-07-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.05E.17.334	10-21-03	--	--	--	--	--	--	--	--	--	--
	01-05-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.05E.17.424	03-30-04	1.20	--	--	--	--	--	--	--	--	--
21S.05E.19.112	10-09-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.05E.19.212	10-07-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.05E.20.434	03-30-04	<.100	--	--	--	--	--	--	--	--	--
21S.05E.30.122	10-09-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
22S.04E.01.223	10-07-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
22S.04E.01.431	10-21-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
26S.03E.20.423A	10-30-03	--	<.008	.025	.008	.009	.06	.7	M	16.5	32
26S.03E.20.423B	11-04-03	--	<.008	.031	.010	.015	.20	1.2	3	35.1	27
27S.03E.20.432D	11-05-03	--	<.008	.025	.008	.014	.61	2.9	<6	43.6	86

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

DONA ANA COUNTY—CONTINUED

Local identifier	Date	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chrom-ium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Mangan-ese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)
21S.04E.14.142	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.14.223	10-09-03	45	--	--	--	--	13	--	--	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.15.422	10-09-03	32	--	--	--	--	<6	--	--	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.22.222	10-09-03	31	--	--	--	--	14	--	--	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-05-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.23.233B	10-09-03	34	--	--	--	--	<6	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.23.233C	10-09-03	34	--	--	--	--	<6	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.23.432	10-07-03	33	--	--	--	--	32	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.25.311	10-06-03	35	--	--	--	--	E6	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.25.412	10-06-03	43	--	--	--	--	<6	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.35.222	10-06-03	35	--	--	--	--	E5	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.35.232	10-06-03	29	--	--	--	--	10	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.35.422	10-08-03	39	--	--	--	--	103	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.36.411	10-07-03	35	--	--	--	--	57	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.05E.17.334	10-21-03	46	--	--	--	--	<6	--	--	--	--
	01-05-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.05E.17.424	03-30-04	38	--	--	--	--	56	--	5	--	--
21S.05E.19.112	10-09-03	44	--	--	--	--	<6	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.05E.19.212	10-07-03	40	--	--	--	--	21	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.05E.20.434	03-30-04	28	--	--	--	--	91	--	22	--	--
21S.05E.30.122	10-09-03	42	--	--	--	--	<6	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
22S.04E.01.223	10-07-03	48	--	--	--	--	195	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
22S.04E.01.431	10-21-03	56	--	--	--	--	E5	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
26S.03E.20.423A	10-30-03	168	E.03	E.4	.103	.9	522	<.08	128	34.6	<.02
26S.03E.20.423B	11-04-03	789	E.03	<.8	.075	.9	141	<.08	--	38.4	<.02
27S.03E.20.432D	11-05-03	3,320	.49	<.8	1.10	6.1	527	<.32	--	283	<.02

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

DONA ANA COUNTY—CONTINUED

Local identifier	Date	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	C-13 / C-12 ratio, water, unfltrd per mil (82081)	C-14 countng error, water, fltrd, percent modern (49934)	C-14, water, fltrd, percent modern (49933)
21S.04E.14.142	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.14.223	10-09-03	--	--	--	--	--	--	--	--	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.15.422	10-09-03	--	--	--	--	--	--	--	--	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.22.222	10-09-03	--	--	--	--	--	--	--	--	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-05-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.23.233B	10-09-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.23.233C	10-09-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.23.432	10-07-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.25.311	10-06-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.25.412	10-06-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.35.222	10-06-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.35.232	10-06-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.35.422	10-08-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.36.411	10-07-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.05E.17.334	10-21-03	--	--	--	--	--	--	--	--	--	--
	01-05-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.05E.17.424	03-30-04	--	--	--	--	447	--	--	--	--	--
21S.05E.19.112	10-09-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.05E.19.212	10-07-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.05E.20.434	03-30-04	--	--	--	--	228	--	--	--	--	--
21S.05E.30.122	10-09-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
22S.04E.01.223	10-07-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
22S.04E.01.431	10-21-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
26S.03E.20.423A	10-30-03	12.8	.63	<.4	<.2	529	<5	E.5	-6.41	.170	15.54
26S.03E.20.423B	11-04-03	16.4	.70	<.4	<.2	395	<5	E.5	-4.99	.080	2.610
27S.03E.20.432D	11-05-03	257	2.61	E1.1	<.8	6,280	<5	4.3	-13.71	.260	28.42

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

DONA ANA COUNTY—CONTINUED

Local identifier	Date	Deu-terium/ Protium ratio, water, unfltrd per mil (82082)	Gross alpha radioac water, unfltrd Th-230, pCi/L (63018)	Gross beta radioac water unfltrd Cs-137, pCi/L (03519)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Ra-226, water, unfltrd pCi/L (09501)	Ra-228, water, unfltrd pCi/L (11501)	Rn-222 2-sigma water unfltrd pCi/L (76002)	Rn-222, water, unfltrd pCi/L (82303)	Tritium 2-sigma water unfltrd pCi/L (75985)	Tritium water unfltrd pCi/L (07000)
21S.04E.14.142	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.14.223	10-09-03	--	--	--	--	--	--	--	--	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.15.422	10-09-03	--	--	--	--	--	--	--	--	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.22.222	10-09-03	--	--	--	--	--	--	--	--	--	--
	10-10-03	--	--	--	--	--	--	--	--	--	--
	01-05-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.23.233B	10-09-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.23.233C	10-09-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.23.432	10-07-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.04E.25.311	10-06-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.25.412	10-06-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.35.222	10-06-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.04E.35.232	10-06-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.35.422	10-08-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-08-04	--	--	--	--	--	--	--	--	--	--
21S.04E.36.411	10-07-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
21S.05E.17.334	10-21-03	--	--	--	--	--	--	--	--	--	--
	01-05-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
21S.05E.17.424	03-30-04	--	--	--	--	--	--	--	--	--	--
21S.05E.19.112	10-09-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
21S.05E.19.212	10-07-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	04-06-04	--	--	--	--	--	--	--	--	--	--
21S.05E.20.434	03-30-04	--	--	--	--	--	--	--	--	--	--
21S.05E.30.122	10-09-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	07-07-04	--	--	--	--	--	--	--	--	--	--
22S.04E.01.223	10-07-03	--	--	--	--	--	--	--	--	--	--
	01-07-04	--	--	--	--	--	--	--	--	--	--
	04-07-04	--	--	--	--	--	--	--	--	--	--
22S.04E.01.431	10-21-03	--	--	--	--	--	--	--	--	--	--
	01-06-04	--	--	--	--	--	--	--	--	--	--
	07-08-04	--	--	--	--	--	--	--	--	--	--
26S.03E.20.423A	10-30-03	-86.30	6	4	-11.39	.07	M	20	190	.58	.3
26S.03E.20.423B	11-04-03	-89.20	6	5	-11.89	.17	M	29	700	.58	.2
27S.03E.20.432D	11-05-03	-87.00	6	10	-11.20	.27	1	30	670	.58	.1

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

DONA ANA COUNTY—CONTINUED

Local identifier	Date	Uranium natural water, fltrd, ug/L (22703)
21S.04E.14.142	04-06-04	--
	07-07-04	--
21S.04E.14.223	10-09-03	--
	10-10-03	--
	01-06-04	--
	04-06-04	--
	07-07-04	--
21S.04E.15.422	10-09-03	--
	10-10-03	--
	01-07-04	--
	07-08-04	--
21S.04E.22.222	10-09-03	--
	10-10-03	--
	01-05-04	--
	04-06-04	--
21S.04E.23.233B	10-09-03	--
	01-07-04	--
	07-08-04	--
21S.04E.23.233C	10-09-03	--
	01-07-04	--
	07-08-04	--
21S.04E.23.432	10-07-03	--
	01-06-04	--
	04-06-04	--
21S.04E.25.311	10-06-03	--
	01-06-04	--
	04-07-04	--
21S.04E.25.412	10-06-03	--
	01-06-04	--
	04-07-04	--
21S.04E.35.222	10-06-03	--
	01-06-04	--
	04-07-04	--
21S.04E.35.232	10-06-03	--
	01-06-04	--
	04-08-04	--
21S.04E.35.422	10-08-03	--
	01-07-04	--
	04-08-04	--
21S.04E.36.411	10-07-03	--
	01-07-04	--
	04-07-04	--
21S.05E.17.334	10-21-03	--
	01-05-04	--
	07-08-04	--
21S.05E.17.424	03-30-04	--
21S.05E.19.112	10-09-03	--
	01-07-04	--
	04-06-04	--
	07-07-04	--
21S.05E.19.212	10-07-03	--
	01-06-04	--
	04-06-04	--
21S.05E.20.434	03-30-04	--
21S.05E.30.122	10-09-03	--
	01-07-04	--
	07-07-04	--
22S.04E.01.223	10-07-03	--
	01-07-04	--
	04-07-04	--
22S.04E.01.431	10-21-03	--
	01-06-04	--
	07-08-04	--
26S.03E.20.423A	10-30-03	.35
26S.03E.20.423B	11-04-03	.06
27S.03E.20.432D	11-05-03	<.16

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

DONA ANA COUNTY--CONTINUED

Local identifier	Station number	Date	Time	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	Atrazine, water, fltrd, ug/L (39632)	Azinphosmethyl, water, fltrd 0.7u GF ug/L (82686)
18S.04W.17.4322	324419107160801	05-13-04	1230	<.006	<.006	<.006	<.005	<.005	<.007	<.050
19S.02W.17.1414	323930107041401	05-11-04	1000	<.006	<.006	<.006	<.005	<.005	<.007	<.050
19S.04W.01.214	324122107120801	05-14-04	1020	<.006	<.006	<.006	<.005	<.005	<.007	<.050
20S.02W.02.1444	323601107010001	05-11-04	1600	<.006	<.006	<.006	<.005	<.005	<.007	<.050

Local identifier	Date	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Butylate, water, fltrd, ug/L (04028)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbofuran, water, fltrd 0.7u GF ug/L (82674)	Chlorpyrifos water, fltrd, ug/L (38933)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	Cyanazine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon, water, fltrd, ug/L (39572)
18S.04W.17.4322	05-13-04	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.012	<.005
19S.02W.17.1414	05-11-04	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.012	<.005
19S.04W.01.214	05-14-04	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.012	<.005
20S.02W.02.1444	05-11-04	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.012	<.005

Local identifier	Date	Dieldrin, water, fltrd, ug/L (39381)	Disulfoton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethalfluralin, water, fltrd 0.7u GF ug/L (82663)	Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Desulfinyl-fipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Fonofos water, fltrd, ug/L (04095)
18S.04W.17.4322	05-13-04	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016	<.003
19S.02W.17.1414	05-11-04	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016	<.003
19S.04W.01.214	05-14-04	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016	<.003
20S.02W.02.1444	05-11-04	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016	<.003

Local identifier	Date	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Napropamide, water, fltrd 0.7u GF ug/L (82684)	p,p'-DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)
18S.04W.17.4322	05-13-04	<.004	<.035	<.027	<.015	<.013	<.006	<.003	<.007	<.003	<.010
19S.02W.17.1414	05-11-04	<.004	<.035	<.027	<.015	E.007	<.006	<.003	<.007	<.003	<.010
19S.04W.01.214	05-14-04	<.004	<.035	<.027	<.015	<.013	<.006	<.003	<.007	<.003	<.010
20S.02W.02.1444	05-11-04	<.004	<.035	<.027	<.015	<.013	<.006	<.003	<.007	<.003	<.010

Local identifier	Date	Pebulate, water, fltrd 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate water fltrd 0.7u GF ug/L (82664)	Prometon, water, fltrd, ug/L (04037)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Simazine, water, fltrd, ug/L (04035)	Tebuthiuron water fltrd 0.7u GF ug/L (82670)
18S.04W.17.4322	05-13-04	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	<.005	<.02
19S.02W.17.1414	05-11-04	<.004	.066	<.011	.01	<.004	<.025	<.011	<.02	<.005	<.02
19S.04W.01.214	05-14-04	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02
20S.02W.02.1444	05-11-04	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	<.005	<.02

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

DONA ANA COUNTY—CONTINUED

Local identifier	Date	Terbacil, water, fltrd 0.7u GF ug/L (82665)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Thiobencarb water fltrd 0.7u GF ug/L (82681)	Triallate, water, fltrd 0.7u GF ug/L (82678)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)
18S.04W.17.4322	05-13-04	<.034	<.02	<.010	<.002	<.009	-64.10	-7.17
19S.02W.17.1414	05-11-04	<.034	<.02	<.010	<.002	<.009	-61.50	-6.58
19S.04W.01.214	05-14-04	<.034	<.02	<.010	<.002	<.009	-59.60	-6.17
20S.02W.02.1444	05-11-04	<.034	<.02	<.010	<.002	<.009	-59.70	-6.42

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

OTERO COUNTY

Local identifier	Station number	County	Station type	Date	Time	Geologic unit	Depth of well, feet below LSD (72008)	Depth to bot sample intrval feet below LSD (72016)	Depth to top sample intrval feet below LSD (72015)	Depth to water level, feet below LSD (72019)
17S.09E.26.334	324805105594301	035	GW	10-20-03	1100	110AVMB	150	150	74	50.72
17S.09E.26.344	324802105592001	035	GW	10-20-03	1115	110AVMB	170	170	115	56.63
17S.09E.35.212	324756105590801	035	GW	10-20-03	1045	110AVMB	235	215	195	62.24
19S.06E.28.141	323752106200701	035	GW	10-06-03	1345	110AVMB	67.6	--	--	--
		035	GW	04-05-04	1725	110AVMB	67.6	--	--	--
19S.06E.28.2123	323759106195201	035	GW	10-06-03	1515	110AVMB	60.0	--	--	--
		035	GW	04-05-04	1450	110AVMB	60.0	--	--	--
19S.06E.28.2123	323759106195202	035	GW	10-07-03	1400	110AVMB	59.5	--	--	--
		035	GW	04-05-04	1745	110AVMB	59.5	--	--	--
19S.06E.28.2132	323758106195301	035	GW	10-07-03	1155	110AVMB	60.0	--	--	--
		035	GW	04-05-04	1555	110AVMB	60.0	--	--	--
19S.06E.28.2144	323759106195301	035	GW	10-07-03	1430	110AVMB	49.0	--	--	--
		035	GW	04-05-04	1740	110AVMB	49.0	--	--	--

Local identifier	Date	Alti-tude of land surface feet (72000)	Pump or flow period prior to sam-pling, minutes (72004)	Tur-bidity, water, unfltrd field, NTU (61028)	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, air, deg C (00020)	Temper-ature, water, deg C (00010)	Noncarb hard-ness, wat flt field, mg/L as CaCO3 (00904)	Hard-ness, water, mg/L as CaCO3 (00900)
17S.09E.26.334	10-20-03	4,085	30	--	--	7.3	1,780	29.0	26.5	510	670
17S.09E.26.344	10-20-03	4,090	30	--	--	7.2	4,720	28.0	26.0	2,000	2,100
17S.09E.35.212	10-20-03	4,090	30	--	--	7.2	3,420	27.0	25.0	1,000	1,200
19S.06E.28.141	10-06-03	3,961.39	--	3.0	6.4	7.6	14,800	--	20.7	--	--
	04-05-04	3,961.39	--	--	4.7	7.5	15,400	--	19.1	--	--
19S.06E.28.2123	10-06-03	3,955.10	--	.6	1.8	7.0	10,100	--	22.5	--	--
	04-05-04	3,955.10	--	--	1.3	7.0	9,940	--	21.7	--	--
19S.06E.28.2123	10-07-03	3,955.01	--	4.8	2.4	7.1	10,500	--	22.2	--	--
	04-05-04	3,955.01	--	--	1.2	7.0	10,100	--	21.9	--	--
19S.06E.28.2132	10-07-03	3,955.43	--	1.0	1.4	7.2	11,700	--	22.4	--	--
	04-05-04	3,955.43	--	--	1.5	7.1	11,400	--	21.9	--	--
19S.06E.28.2144	10-07-03	3,952.63	--	--	--	6.7	8,550	--	22.7	--	--
	04-05-04	3,952.63	--	--	--	7.0	8,410	--	21.6	--	--

Local identifier	Date	Calcium water, fltrd, mg/L (00915)	Calcium water unfltrd recover-able, mg/L (00916)	Magnes-ium, water, fltrd, mg/L (00925)	Magnes-ium, water, unfltrd recover-able, mg/L (00927)	Potas-sium, water, fltrd, mg/L (00935)	Potas-sium, water, unfltrd recover-able, mg/L (00937)	Sodium adsorp-tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, water, unfltrd recover-able, mg/L (00929)	Alka-linity, wat flt fxd end lab, mg/L as CaCO3 (29801)
17S.09E.26.334	10-20-03	139	--	78.1	--	2.89	--	2	112	--	--
17S.09E.26.344	10-20-03	461	--	235	--	3.33	--	3	298	--	--
17S.09E.35.212	10-20-03	279	--	121	--	2.71	--	3	246	--	--
19S.06E.28.141	10-06-03	--	430	--	700	--	76.0	--	--	2,700	110
	04-05-04	--	400	--	720	--	68.0	--	--	2,500	110
19S.06E.28.2123	10-06-03	--	270	--	370	--	69.0	--	--	1,900	400
	04-05-04	--	260	--	360	--	63.0	--	--	1,800	400
19S.06E.28.2123	10-07-03	--	200	--	400	--	70.0	--	--	1,900	240
	04-05-04	--	180	--	360	--	64.0	--	--	1,900	250
19S.06E.28.2132	10-07-03	--	290	--	430	--	86.0	--	--	2,300	250
	04-05-04	--	280	--	410	--	78.0	--	--	2,100	260
19S.06E.28.2144	10-07-03	--	310	--	310	--	67.0	--	--	1,500	1,400
	04-05-04	--	310	--	300	--	61.0	--	--	1,600	1,600

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

OTERO COUNTY—CONTINUED

Local identifier	Date	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Chloride, water, unfltrd mg/L (99220)	Fluoride, water, fltrd, mg/L (00950)	Fluoride, water, unfltrd mg/L (00951)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Sulfate water unfltrd mg/L (00946)	Sulfide water unfltrd mg/L (00745)
17S.09E.26.334	10-20-03	155	189	128	--	.5	--	25.4	543	--	--
17S.09E.26.344	10-20-03	157	190	926	--	.2	--	23.5	1,300	--	--
17S.09E.35.212	10-20-03	162	197	439	--	.3	--	24.2	929	--	--
19S.06E.28.141	10-06-03	--	--	--	1,900	--	E2.8	--	--	6,800	<.1
	04-05-04	--	--	--	2,000	--	E2.2	--	--	7,300	<.1
19S.06E.28.2123	10-06-03	--	--	--	840	--	E4.4	--	--	4,800	<.1
	04-05-04	--	--	--	760	--	E3.2	--	--	5,100	<.1
19S.06E.28.2123	10-07-03	--	--	--	850	--	E4.6	--	--	4,800	1.5
	04-05-04	--	--	--	790	--	E4.0	--	--	4,700	.2
19S.06E.28.2132	10-07-03	--	--	--	810	--	E4.7	--	--	6,100	<.1
	04-05-04	--	--	--	780	--	E3.7	--	--	5,900	<.1
19S.06E.28.2144	10-07-03	--	--	--	600	--	E3.9	--	--	3,200	15.0
	04-05-04	--	--	--	670	--	E2.7	--	--	3,200	13.0

Local identifier	Date	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, unfltrd mg/L as N (00610)	Nitrate water unfltrd mg/L as N (00620)	Orthophosphate, water, unfltrd mg/L as P (70507)	Organic carbon, water, unfltrd mg/L (00680)	Arsenic water unfltrd ug/L (01002)	Barium, water, unfltrd recoverable, ug/L (01007)	Beryllium, water, unfltrd recoverable, ug/L (01012)	Cadmium water, unfltrd ug/L (01027)
17S.09E.26.334	10-20-03	1,120	--	--	--	--	--	--	--	--	--
17S.09E.26.344	10-20-03	3,340	--	--	--	--	--	--	--	--	--
17S.09E.35.212	10-20-03	2,140	--	--	--	--	--	--	--	--	--
19S.06E.28.141	10-06-03	--	15,000	<.100	63.0	E2.10	E.7	10	M	<5.0	M
	04-05-04	--	14,000	E.043	67.0	<5.00	E.5	E10	M	<4.0	<10
19S.06E.28.2123	10-06-03	--	9,600	<.100	22.0	<2.50	2.1	10	M	<5.0	M
	04-05-04	--	8,500	<.100	21.0	<2.50	2.2	E11	M	<4.0	M
19S.06E.28.2123	10-07-03	--	11,000	.150	29.0	<2.50	2.0	16	M	<5.0	M
	04-05-04	--	8,600	.140	28.0	<2.50	2.0	E15	M	<4.0	M
19S.06E.28.2132	10-07-03	--	11,000	<.100	26.0	<2.50	2.8	12	M	<5.0	M
	04-05-04	--	10,000	<.100	26.0	<2.50	2.6	E11	M	<4.0	M
19S.06E.28.2144	10-07-03	--	8,400	E.060	E1.10	<2.50	15.0	E4	M	<5.0	M
	04-05-04	--	7,400	E.043	E.47	<2.50	21.0	E6	M	<4.0	<5.0

Local identifier	Date	Chromium, water, unfltrd recoverable, ug/L (01034)	Cobalt water, unfltrd recoverable, ug/L (01037)	Cyanide water unfltrd mg/L (00720)	Lead, water, unfltrd recoverable, ug/L (01051)	Selenium, water, unfltrd ug/L (01147)
17S.09E.26.334	10-20-03	--	--	--	--	--
17S.09E.26.344	10-20-03	--	--	--	--	--
17S.09E.35.212	10-20-03	--	--	--	--	--
19S.06E.28.141	10-06-03	4	<10	M	<1.0	110
	04-05-04	E10	<10	<.01	<10	100
19S.06E.28.2123	10-06-03	8	<10	<.01	<1.0	46
	04-05-04	E9	<10	<.01	<5.0	42
19S.06E.28.2123	10-07-03	49	<10	<.01	M	57
	04-05-04	14	<10	<.01	<5.0	47
19S.06E.28.2132	10-07-03	21	<10	--	<1.0	57
	04-05-04	26	<10	<.01	<10	E49
19S.06E.28.2144	10-07-03	5	<10	<.01	M	E2
	04-05-04	12	<10	<.01	M	E5

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

OTERO COUNTY—CONTINUED

Local identifier	Station number	Date	Time	Organic carbon, water, unfltrd mg/L (00680)	1,2-Dichloroethene, water, unfltrd ug/L (45617)	2,4,5-Trichlorophenol, water, unfltrd ug/L (77687)	2,4,6-Trichlorophenol, water, unfltrd ug/L (34621)	2,4-Dichlorophenol, water, unfltrd ug/L (34601)	2,4-Dimethylphenol, water, unfltrd ug/L (34606)	2,4-Dinitrophenol, water, unfltrd ug/L (34616)
19S.06E.28.141 (HMW15)	323752106200701	10-06-03	1345	E.7	<1.0	<10	<10	<10	<10.0	<50
		04-05-04	1725	E.5	<1.0	<10	<10	<10	<10.0	<50
19S.06E.28.2123	323759106195201	10-06-03	1515	2.1	<1.0	<10	<10	<10	<10.0	<50
		04-05-04	1450	2.2	<1.0	<10	<10	<10	<10.0	<50
19S.06E.28.2123	323759106195202	10-07-03	1400	2.0	<1.0	<10	<10	<10	<10.0	<50
		04-05-04	1745	2.0	<1.0	<10	<10	<10	<10.0	<50
19S.06E.28.2132	323758106195301	10-07-03	1155	2.8	<1.0	<10	<10	<10	<10.0	<50
		04-05-04	1555	2.6	<1.0	<10	<10	<10	<10.0	<50
19S.06E.28.2144	323759106195301	10-07-03	1430	15.0	<1.0	<10	<10	<10	<10.0	<50
		04-05-04	1740	21.0	<10	<10	<10	<10	<10.0	<50

Local identifier	Date	2,4-Dinitrotoluene water unfltrd ug/L (34611)	2,6-Dinitrotoluene water unfltrd ug/L (34626)	2-Chloronaphthalene, water, unfltrd ug/L (34581)	2-chlorophenol, water, unfltrd ug/L (34586)	2-Methyl-4,6-dinitrophenol, wat unf ug/L (34657)	2-Methylnaphthalene, water, unfltrd ug/L (30194)	2-Nitroaniline water unfltrd ug/L (30195)	2-nitrophenol, water unfltrd ug/L (34591)	3,3-Di'chlorobenzidine, water, unfltrd ug/L (34631)	3-Nitroaniline water unfltrd ug/L (78300)
19S.06E.28.141	10-06-03	<10	<10	<10	<10	<50	<10.0	<50	<10	<50	<50
	04-05-04	<10	<10	<10	<10	<50	<10.0	<50	<10	<50	<50
19S.06E.28.2123	10-06-03	<10	<10	<10	<10	<50	E1.2	<50	<10	<50	<50
	04-05-04	<10	<10	<10	<10	<50	<10.0	<50	<10	<50	<50
19S.06E.28.2123	10-07-03	<10	<10	<10	<10	<50	E6.0	<50	<10	<50	<50
	04-05-04	<10	<10	<10	<10	<50	E5.5	<50	<10	<50	<50
19S.06E.28.2132	10-07-03	<10	<10	<10	<10	<50	14.0	<50	<10	<50	<50
	04-05-04	<10	<10	<10	<10	<50	E8.1	<50	<10	<50	<50
19S.06E.28.2144	10-07-03	<10	<10	<10	<10	<50	120	<50	<10	<50	<50
	04-05-04	<10	<10	<10	<10	<50	12.0	<50	<10	<50	<50

Local identifier	Date	4-Bromophenyl phenyl ether, wat unf ug/L (34636)	4-Chloro-3-methylphenol, wat unf ug/L (34452)	4-Chloroaniline water unfltrd ug/L (30343)	4-Chlorophenyl phenyl ether, wat unf ug/L (34641)	4-Nitroaniline water unfltrd ug/L (30196)	4-Nitrophenol, water, unfltrd ug/L (34646)	9H-Fluorene, water, unfltrd ug/L (34381)	Acenaphthene, water, unfltrd ug/L (34205)	Acenaphthylene, water, unfltrd ug/L (34200)	Anthracene, water, unfltrd ug/L (34220)
19S.06E.28.141	10-06-03	<10	<10	<10	<10	<50	<50	<10	<10	<10	<10
	04-05-04	<10	<10	<10	<10	<50	<50	<10	<10	<10	<10
19S.06E.28.2123	10-06-03	<10	<10	<10	<10	<50	<50	<10	<10	<10	<10
	04-05-04	<10	<10	<10	<10	<50	<50	<10	<10	<10	<10
19S.06E.28.2123	10-07-03	<10	E1	<10	<10	<50	<50	<10	<10	<10	<10
	04-05-04	<10	<10	<10	<10	<50	<50	<10	<10	<10	<10
19S.06E.28.2132	10-07-03	<10	<10	<10	<10	<50	<50	<10	E1	<10	<10
	04-05-04	<10	<10	<10	<10	<50	<50	<10	E2	<10	<10
19S.06E.28.2144	10-07-03	<10	<10	<10	<10	<50	<50	13	<10	<10	<10
	04-05-04	<10	<10	<10	<10	<50	<50	<10	E1	<10	<10

Local identifier	Date	Benzo-[a]-anthracene, water, unfltrd ug/L (34526)	Benzo-[a]-pyrene, water, unfltrd ug/L (34247)	Benzo-[b]-fluoranthene water unfltrd ug/L (34230)	Benzo-[g,h,i]-perylene, water, unfltrd ug/L (34521)	Benzo-[k]-fluoranthene water unfltrd ug/L (34242)	Benzyl n-butyl phthalate, water, unfltrd ug/L (34292)	Bis(2-chloroethoxy) methane water unfltrd ug/L (34278)	Bis(2-chloroethyl) ether, water, unfltrd ug/L (34273)	Bis(2-chloroisopropyl) ether, wat unf ug/L (34283)	Bis(2-ethylhexyl) phthalate, wat unf ug/L (39100)
19S.06E.28.141	10-06-03	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	04-05-04	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
19S.06E.28.2123	10-06-03	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	04-05-04	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
19S.06E.28.2123	10-07-03	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	04-05-04	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
19S.06E.28.2132	10-07-03	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	04-05-04	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
19S.06E.28.2144	10-07-03	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	04-05-04	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

OTERO COUNTY—CONTINUED

Local identifier	Date	Carbazole, water, unfltrd ug/L (77571)	Chrysene, water, unfltrd ug/L (34320)	Dibenzo-[a,h]-anthracene, wat unf ug/L (34556)	Dibenzofuran, water, unfltrd ug/L (81302)	Diesel range organic cmpds, water unfltrd ug/L (04585)	Diethyl phthalate, water, unfltrd ug/L (34336)	Dimethyl phthalate, water, unfltrd ug/L (34341)	Di-n-butyl phthalate, water, unfltrd ug/L (39110)	Di-n-octyl phthalate, water, unfltrd ug/L (34596)	Fluoranthene water unfltrd ug/L (34376)
19S.06E.28.141	10-06-03	<10.0	<10	<10	<10	<250	<10	<10	<10	<10	<10
	04-05-04	<10.0	<10	<10	<10	<.250	<10	<10	<10	<10	<10
19S.06E.28.2123	10-06-03	<10.0	<10	<10	<10	<250	<10	<10	<10	<10	<10
	04-05-04	<10.0	<10	<10	<10	<.250	<10	<10	<10	<10	<10
19S.06E.28.2123	10-07-03	<10.0	<10	<10	<10	270	<10	<10	<10	<10	<10
	04-05-04	<10.0	<10	<10	<10	.320	<10	<10	<10	<10	<10
19S.06E.28.2132	10-07-03	E1.5	<10	<10	E4.9	420	<10	<10	<10	<10	<10
	04-05-04	E1.3	<10	<10	E4.8	.470	<10	<10	<10	<10	<10
19S.06E.28.2144	10-07-03	E7.7	<10	<10	19	22,000	<10	<10	<10	<10	<10
	04-05-04	E1.3	<10	<10	E5.0	450	<10	<10	<10	<10	<10

Local identifier	Date	Hexachlorobenzene water unfltrd ug/L (39700)	Hexachlorocyclopentadiene, wat unf ug/L (34386)	Indeno-[1,2,-3-cd]-pyrene, water, unfltrd ug/L (34403)	Isophorone water unfltrd ug/L (34408)	Nitrobenzene water unfltrd ug/L (34447)	N-NItroso-di-n-propylamine, wat unf ug/L (34428)	N-NItroso-di-phenylamine, wat unf ug/L (34433)	o-Cresol, water, unfltrd ug/L (77152)	Organic halides water unfltrd ug/L as Cl (79747)	p-Cresol, water, unfltrd ug/L (77146)
19S.06E.28.141	10-06-03	<10	<50	<10	<10	<10	<10	<10	<10	E19	<10
	04-05-04	<10	<50	<10	<10	<10	<10	<10	<10	E18	<10
19S.06E.28.2123	10-06-03	<10	<50	<10	<10	<10	<10	<10	<10	35	<10
	04-05-04	<10	<50	<10	<10	<10	<10	<10	<10	44	<10
19S.06E.28.2123	10-07-03	<10	<50	<10	<10	<10	<10	<10	<10	21	<10
	04-05-04	<10	<50	<10	<10	<10	<10	<10	<10	26	<10
19S.06E.28.2132	10-07-03	<10	<50	<10	<10	<10	<10	<10	<10	33	<10
	04-05-04	<10	<50	<10	<10	<10	<10	<10	<10	35	<10
19S.06E.28.2144	10-07-03	<10	<50	<10	<10	<10	<10	<10	<10	E16	E3
	04-05-04	<10	<50	<10	<10	<10	<10	<10	<10	26	<10

Local identifier	Date	Pentachlorophenol, water, unfltrd ug/L (39032)	Phenanthrene, water, unfltrd ug/L (34461)	Phenol, water, unfltrd ug/L (34694)	Pyrene, water, unfltrd ug/L (34469)	Xylenes water unfltrd ug/L (81551)	1,1,1-Trichloroethane, water, unfltrd ug/L (34506)	1,1,2,2-Tetrachloroethane, water, unfltrd ug/L (34516)	1,1,2-Trichloroethane, water, unfltrd ug/L (34511)	1,1-Dichloroethane, water unfltrd ug/L (34496)	1,1-Dichloroethene, water, unfltrd ug/L (34501)
19S.06E.28.141	10-06-03	<50	<10	<10.0	<10	<2	<1	<1	<1	<1	M
	04-05-04	<50	<10	<10.0	<10	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
19S.06E.28.2123	10-06-03	<50	<10	<10.0	<10	<2	<1	<1	<1	4	M
	04-05-04	<50	<10	<10.0	<10	<2.0	<1.0	<1.0	<1.0	2.4	<1.0
19S.06E.28.2123	10-07-03	E13	<10	<10.0	E2	<2	<1	<1	<1	2	M
	04-05-04	<50	<10	<10.0	<10	<2.0	<1.0	<1.0	<1.0	1.8	<1.0
19S.06E.28.2132	10-07-03	<50	E4	<10.0	<10	<2	<1	<1	<1	M	M
	04-05-04	<50	E4	<10.0	<10	E.50	<1.0	<1.0	<1.0	E.41	<1.0
19S.06E.28.2144	10-07-03	<50	18	<10.0	E1	<2	M	<1	<1	3	<1
	04-05-04	<50	E4	<10.0	<10	<20	<10	<10	<10	E4.2	<10

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

OTERO COUNTY—CONTINUED

Local identifier	Date	1,2,4-Trichlorobenzene water unfltrd ug/L (34551)	1,2-Dichlorobenzene water unfltrd ug/L (34536)	1,2-Dichloroethane, water, unfltrd ug/L (32103)	1,2-Dichloropropane water unfltrd ug/L (34541)	1,3-Dichlorobenzene water unfltrd ug/L (34566)	1,4-Dichlorobenzene water unfltrd ug/L (34571)	Acetone water unfltrd ug/L (81552)	Benzene water unfltrd ug/L (34030)	Bromodichloromethane water unfltrd ug/L (32101)	Bromomethane water unfltrd ug/L (34413)
19S.06E.28.141	10-06-03	<10	<10	<1	<1	<10	<10	<10	<1	<1	<2
	04-05-04	<10	<10	<1.0	<1.0	<10	<10	<10	<1.0	<1.0	<2.0
19S.06E.28.2123	10-06-03	<10	<10	<1	<1	<10	<10	<10	<1	<1	<2
	04-05-04	<10	<10	<1.0	<1.0	<10	<10	<10	<1.0	<1.0	<2.0
19S.06E.28.2123	10-07-03	<10	<10	<1	<1	<10	<10	<10	M	<1	<2
	04-05-04	<10	<10	<1.0	<1.0	<10	<10	<10	E.45	<1.0	<2.0
19S.06E.28.2132	10-07-03	<10	<10	<1	<1	<10	<10	<10	M	<1	<2
	04-05-04	<10	<10	<1.0	<1.0	<10	<10	<10	E.76	<1.0	<2.0
19S.06E.28.2144	10-07-03	<10	<10	<1	<1	<10	<10	<10	3	<1	<2
	04-05-04	<10	<10	<10	<10	<10	<10	<100	E1.9	<10	<20

Local identifier	Date	Carbon disulfide water unfltrd ug/L (77041)	Chlorobenzene water unfltrd ug/L (34301)	Chloroethane, water, unfltrd ug/L (34311)	Chloromethane water unfltrd ug/L (34418)	cis-1,2-Dichloroethene, water, unfltrd ug/L (77093)	cis-1,3-Dichloropropene water unfltrd ug/L (34704)	Dibromochloromethane water unfltrd ug/L (32105)	Dichloromethane water unfltrd ug/L (34423)	Ethyl methyl ketone, water, unfltrd ug/L (81595)	Ethylbenzene water unfltrd ug/L (34371)
19S.06E.28.141	10-06-03	<1.0	<1	<2	<2	<1.0	<1	<1	<5	<5.0	<1
	04-05-04	<1.0	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	E.43	<5.0	<1.0
19S.06E.28.2123	10-06-03	<1.0	<1	<2	<2	<1.0	<1	<1	<5	<5.0	<1
	04-05-04	<1.0	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	E.42	<5.0	<1.0
19S.06E.28.2123	10-07-03	<1.0	<1	<2	<2	<1.0	<1	<1	M	<5.0	<1
	04-05-04	<1.0	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	E.43	<5.0	<1.0
19S.06E.28.2132	10-07-03	<1.0	<1	<2	<2	<1.0	<1	<1	M	<5.0	<1
	04-05-04	<1.0	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	E.60	<5.0	<1.0
19S.06E.28.2144	10-07-03	E.3	<1	<2	<2	<1.0	<1	<1	M	<5.0	M
	04-05-04	<10	<10	<20	<20	<10	<10	<10	E5.4	<50	<10

Local identifier	Date	Hexachlorobutadiene, water, unfltrd ug/L (39702)	Hexachloroethane, water, unfltrd ug/L (34396)	Isobutyl methyl ketone, water, unfltrd ug/L (78133)	Naphthalene, water, unfltrd ug/L (34696)	Methyl n-butyl ketone, water, unfltrd ug/L (77103)	Styrene water unfltrd ug/L (77128)	Tetrachloroethene, water, unfltrd ug/L (34475)	Tetrachloromethane water unfltrd ug/L (32102)	Toluene water unfltrd ug/L (34010)	trans-1,2-Dichloroethene, water, unfltrd ug/L (34546)
19S.06E.28.141	10-06-03	<10	<10	<5.0	<10	<5.0	<1	<1	<1	<1	<1
	04-05-04	<10	<10	<5.0	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
19S.06E.28.2123	10-06-03	<10	<10	<5.0	<10	<5.0	<1	<1	<1	<1	<1
	04-05-04	<10	<10	<5.0	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
19S.06E.28.2123	10-07-03	<10	<10	<5.0	E5	<5.0	<1	<1	<1	<1	<1
	04-05-04	<10	<10	<5.0	E4	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
19S.06E.28.2132	10-07-03	<10	<10	<5.0	<10	<5.0	<1	<1	<1	<1	<1
	04-05-04	<10	<10	<5.0	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
19S.06E.28.2144	10-07-03	<10	<10	<5.0	38	<5.0	<1	<1	<1	<1	<1
	04-05-04	<10	<10	<50	<10	<50	<10	<10	<10	<10	<10

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

OTERO COUNTY—CONTINUED

Local identifier	Date	trans-1,3-Dichloropropene water unfltrd ug/L (34699)	Tribromomethane water unfltrd ug/L (32104)	Trichloroethene, water, unfltrd ug/L (39180)	Trichloromethane water unfltrd ug/L (32106)	Vinyl chloride, water, unfltrd ug/L (39175)
19S.06E.28.141	10-06-03	<1	<1	<1	5	<2
	04-05-04	<1.0	<1.0	<1.0	4.2	<2.0
19S.06E.28.2123	10-06-03	<1	<1	M	1	<2
	04-05-04	<1.0	<1.0	<1.0	E.67	<2.0
19S.06E.28.2123	10-07-03	<1	<1	M	2	<2
	04-05-04	<1.0	<1.0	E.39	1.4	<2.0
19S.06E.28.2132	10-07-03	<1	<1	M	M	<2
	04-05-04	<1.0	<1.0	E.25	E.56	<2.0
19S.06E.28.2144	10-07-03	<1	<1	<1	<1	<2
	04-05-04	<10	<10	<10	<10	<20

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

ROOSEVELT COUNTY

Local identifier	Station number	County	Station type	Date	Time	Geologic unit	Depth of well, feet below LSD (72008)	Altitude of land surface feet (72000)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
01N.30E.03.213334	342031103464701	041	GW	01-13-04	1230	110AVMB	103	4,231.74	196	42
		041	GW	07-20-04	1415	110AVMB	103	4,231.74	200	42
01N.30E.05.112	342048103492701	041	GW	01-13-04	1100	121OGLL	--	4,270.64	178	40
		041	GW	07-19-04	1400	121OGLL	--	4,270.64	159	34
01N.30E.13.414424	341820103442601	041	GW	01-12-04	1515	110AVMB	165	4,268.22	213	31
		041	GW	07-21-04	1045	110AVMB	165	4,268.22	217	31
01N.30E.15.324	341825103470301	041	GW	01-14-04	1215	121OGLL	181	4,323.21	2,258	360
		041	GW	07-21-04	1240	121OGLL	181	4,323.21	1,770	280
01N.30E.16.233	341845103475801	041	GW	01-15-04	1030	121OGLL	160	4,343.27	376	58
01N.30E.22.321	341743103470801	041	GW	01-14-04	1048	121OGLL	181.6	4,356.27	481	110
		041	GW	07-21-04	1500	121OGLL	181.6	4,356.27	732	130
01N.30E.25.222	341714103442502	041	GW	01-14-04	1420	121OGLL	245	4,288.80	969	190
		041	GW	07-19-04	1830	121OGLL	245	4,288.80	1,010	190
01N.30E.27.324	341640103470501	041	GW	01-15-04	0850	121OGLL	--	4,380.67	467	75
		041	GW	07-04-04	0835	121OGLL	--	4,380.67	436	69
01S.29E.12.222222	341954103503101	041	GW	01-13-04	0910	110AVMB	60	4,639.78	296	56
		041	GW	07-20-04	1045	110AVMB	60	4,639.78	246	64

Local identifier	Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Sulfide water, fltrd, mg/L (00746)
01N.30E.03.213334	01-13-04	22	E2.7	1.90	61	170	.29	22	2.4	96	E.48
	07-20-04	23	E2.8	2.06	67	170	E.18	22	2.7	100	<4.0
01N.30E.05.112	01-13-04	19	E2.3	1.76	54	160	<.2	17	2.6	83	E.32
	07-19-04	18	E2.2	2.11	61	160	E.13	12	2.8	74	<4.0
01N.30E.13.414424	01-12-04	33	5.7	2.35	79	150	.49	64	1.9	140	E.80
	07-21-04	34	5.5	2.54	86	170	.38	65	2.0	150	<4.0
01N.30E.15.324	01-14-04	330	17	22.0	2,400	54	10	3,800	11	1,900	E.32
	07-21-04	260	14	20.7	2,000	50	7.5	3,200	E.79	1,800	<4.0
01N.30E.16.233	01-15-04	56	7.4	11.5	510	140	2.2	490	3.7	570	E.48
01N.30E.22.321	01-14-04	50	6.8	37.7	1,900	130	12	1,800	8.8	2,000	E.48
	07-21-04	99	9.5	24.1	1,500	150	9.1	1,400	E1.9	1,900	<4.0
01N.30E.25.222	01-14-04	120	9.4	30.8	2,200	82	7.7	3,200	9.5	1,200	E.32
	07-19-04	130	9.3	32.9	2,400	67	7.1	3,300	<5.0	1,300	<4.0
01N.30E.27.324	01-15-04	68	11	13.1	650	140	4.9	470	5.2	740	E.32
	07-04-04	64	11	15.0	720	140	4.3	480	2.8	770	E4.0
01S.29E.12.222222	01-13-04	38	5.6	.38	15	230	.29	18	E.88	37	--
	07-20-04	21	5.6	.61	22	190	E.12	6.6	2.4	38	<4.0

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

ROOSEVELT COUNTY—CONTINUED

Local identifier	Date	Residue water, fltrd, sum of consti-tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Phos-phorus, water, fltrd, mg/L (00666)	Organic carbon, water, fltrd, mg/L (00681)	Anti-mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryll-ium, water, fltrd, ug/L (01010)
01N.30E.03.213334	01-13-04	--	440	<.10	6.3	<.05	3.9	E.08	7.2	28	<1.0
	07-20-04	--	440	<.10	6.6	<.05	<1.0	E.16	6.8	28	<1.0
01N.30E.05.112	01-13-04	--	410	<.10	4.4	<.05	1.5	E.07	6.3	29	<1.0
	07-19-04	--	370	.12	6.1	<.05	<1.0	<2.0	6.6	28	<1.0
01N.30E.13.414424	01-12-04	449	480	<.10	.89	E.02	2.6	<2.0	10	26	<1.0
	07-21-04	480	500	E.06	.94	<.05	<1.0	<2.0	9.7	25	<1.0
01N.30E.15.324	01-14-04	8,865	8,800	E.03	1.1	<.05	<1.0	E.12	E4.7	19	<1.0
	07-21-04	7,595	8,100	<.10	.79	<.05	<1.0	E.31	E4.1	16	<1.0
01N.30E.16.233	01-15-04	1,782	1,800	<.10	.27	E.02	<1.0	E.06	E2.0	18	<1.0
01N.30E.22.321	01-14-04	5,987	6,200	.27	4.7	<.05	5.8	E.05	9.2	7	<1.0
	07-21-04	5,164	5,400	E.03	6.0	<.05	5.9	E1.5	12	11	<1.0
01N.30E.25.222	01-14-04	6,987	7,000	.39	<.10	<.05	<1.0	E1.9	E4.1	35	E.33
	07-19-04	7,377	7,400	.40	<.10	<.05	<1.0	<2.0	E4.7	28	<1.0
01N.30E.27.324	01-15-04	2,118	2,400	E.05	2.3	E.02	<1.0	E.26	E4.8	12	<1.0
	07-04-04	2,215	2,400	<.10	2.2	<.05	<1.0	<2.0	E4.1	12	<1.0
01S.29E.12.222222	01-13-04	352	420	<.10	10	<.05	2.6	E.06	E4.6	130	<1.0
	07-20-04	331	390	<.10	13	<.05	<1.0	<2.0	6.2	71	<1.0

Local identifier	Date	Cadmium water, fltrd, ug/L (01025)	Chrom-ium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Lead, water, fltrd, ug/L (01049)	Mangan-ese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Molyb-denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen-ium, water, fltrd, ug/L (01145)
01N.30E.03.213334	01-13-04	<1.0	E1.4	E.13	E1.8	<1.0	E.36	<.20	3.7	E.6	E3.0
	07-20-04	<1.0	E1.1	E.11	E.8	<1.0	E.41	E.09	3.7	E.8	E2.8
01N.30E.05.112	01-13-04	<1.0	E1.5	E.11	E1.0	<1.0	2.4	<.20	2.3	E.7	E1.6
	07-19-04	<1.0	E1.1	E.09	E1.0	E.2	E.72	E.10	2.0	E.8	E1.5
01N.30E.13.414424	01-12-04	<1.0	E1.5	E.08	2.4	<1.0	E.30	<.20	5.5	E.6	E4.5
	07-21-04	<1.0	E1.2	E.08	E1.6	E.1	E.29	<.20	5.7	E.6	5.1
01N.30E.15.324	01-14-04	E.08	3.4	1.1	6.7	<1.0	1.4	<.20	12	11	27
	07-21-04	E.08	E1.6	1.1	6.1	<1.0	38	<.20	11	9.9	18
01N.30E.16.233	01-15-04	<1.0	2.8	E.28	2.7	<1.0	1.4	<.20	5.2	6.2	E4.3
01N.30E.22.321	01-14-04	<1.0	2.8	E.98	7.2	<1.0	160	<.20	25	18	120
	07-21-04	E.05	E1.6	E.69	7.1	E.1	21	<.20	13	4.5	160
01N.30E.25.222	01-14-04	<10	E2.5	E4.1	E5.9	<5.0	410	<.20	32	27	<50
	07-19-04	E.08	E.8	2.9	5.2	<1.0	330	E.11	21	18	<5.0
01N.30E.27.324	01-15-04	E.05	2.0	E.45	3.5	<1.0	E.91	<.20	26	4.9	23
	07-04-04	E.06	E1.1	E.45	3.9	<1.0	E.88	E.08	26	5.7	21
01S.29E.12.222222	01-13-04	<1.0	E.7	E.15	E1.7	E.4	E.21	<.20	4.0	E.7	E1.1
	07-20-04	<1.0	E.4	E.19	2.9	E.9	E.47	E.06	3.6	E1.5	E.64

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

ROOSEVELT COUNTY—CONTINUED

Local identifier	Date	Silver, water, fltrd, ug/L (01075)	Titanium, water, fltrd, ug/L (01150)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)
01N.30E.03.213334	01-13-04	<5.0	<10	60	E9.7
	07-20-04	<5.0	<10	58	13
01N.30E.05.112	01-13-04	<5.0	<10	50	14
	07-19-04	<5.0	<10	50	37
01N.30E.13.414424	01-12-04	<5.0	<10	72	E6.2
	07-21-04	<5.0	<10	74	E3.3
01N.30E.15.324	01-14-04	E.4	<10	6.0	E5.6
	07-21-04	E.1	<10	5.3	E5.7
01N.30E.16.233	01-15-04	<5.0	<10	10	E5.0
01N.30E.22.321	01-14-04	<5.0	<10	5.2	E1.5
	07-21-04	<5.0	<10	7.5	11
01N.30E.25.222	01-14-04	<50	<10	E1.5	<100
	07-19-04	<5.0	<10	E.9	E3.8
01N.30E.27.324	01-15-04	<5.0	<10	E3.9	E6.0
	07-04-04	E.1	<10	E4.2	E4.6
01S.29E.12.222222	01-13-04	<5.0	<10	35	E9.9
	07-20-04	<5.0	<10	40	22

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

Local identifier	Station number	Date	Time	1,3,5-Trinitrobenzene water, unfltrd ug/L (73653)	1,3-Dinitrobenzene water, unfltrd ug/L (45622)	2,3,4,6-Tetrachlorophenol, water, unfltrd ug/L (77770)	2,4,5-Trichlorophenol, water, unfltrd ug/L (77687)	2,4,6-Trichlorophenol, water, unfltrd ug/L (34621)	2,4-Dichlorophenol, water, unfltrd ug/L (34601)	2,4-Dimethylphenol, water, unfltrd ug/L (34606)
01N.30E.03.213334	342031103464701	01-13-04	1230	--	--	--	--	--	--	--
		07-20-04	1415	--	--	--	--	--	--	--
01N.30E.05.112	342048103492701	01-13-04	1100	--	--	--	--	--	--	--
		07-19-04	1400	--	--	--	--	--	--	--
01N.30E.13.414424	341820103442601	01-12-04	1515	--	--	--	--	--	--	--
		07-21-04	1045	--	--	--	--	--	--	--
01N.30E.15.324	341825103470301	01-14-04	1215	--	--	--	--	--	--	--
		07-21-04	1240	<50	<10	<50	<10	<10	<10	<10
01N.30E.16.233	341845103475801	01-15-04	1030	--	--	--	--	--	--	--
01N.30E.22.321	341743103470801	01-14-04	1048	--	--	--	--	--	--	--
		07-21-04	1500	<50	<10	<50	<10	<10	<10	<10
01N.30E.25.222	341714103442502	01-14-04	1420	--	--	--	--	--	--	--
		07-19-04	1830	--	--	--	--	--	--	--
01N.30E.27.324	341640103470501	01-15-04	0850	--	--	--	--	--	--	--
		07-04-04	0835	--	--	--	--	--	--	--
01S.29E.12.222222	341954103503101	01-13-04	0910	--	--	--	--	--	--	--
		07-20-04	1045	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

ROOSEVELT COUNTY—CONTINUED

Local identifier	Date	2,4-Di-nitro-phenol, water, unfltrd ug/L (34616)	2,4-Di-nitro-toluene water unfltrd ug/L (34611)	2,6-Di-nitro-toluene water unfltrd ug/L (34626)	2-Amino-4,6-di-nitro-toluene wat unf ug/L (76988)	2-Chloro-naphth-alene, water, unfltrd ug/L (34581)	2-chloro-phenol, water, unfltrd ug/L (34586)	2-Methyl-4,6-di-nitro-phenol, wat unf ug/L (34657)	2-Methyl-naphth-alene, water, unfltrd ug/L (30194)	2-Nitro-aniline water unfltrd ug/L (30195)	2-nitro-phenol, water unfltrd ug/L (34591)
01N.30E.03.213334	01-13-04	--	<.25	<.25	<.25	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	--	--	--	--	--
01N.30E.05.112	01-13-04	--	<.25	<.25	<.25	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	--	--	--	--	--
01N.30E.13.414424	01-12-04	--	<.25	<.25	<.25	--	--	--	--	--	--
	07-21-04	--	--	--	--	--	--	--	--	--	--
01N.30E.15.324	01-14-04	--	<.25	<.25	<.25	--	--	--	--	--	--
	07-21-04	<50	<10	<10	--	<10	<10	<50	<10	<50	<10
01N.30E.16.233	01-15-04	--	<.25	<.25	<.25	--	--	--	--	--	--
01N.30E.22.321	01-14-04	--	<.25	<.25	<.25	--	--	--	--	--	--
	07-21-04	<50	<10	<10	--	<10	<10	<50	<10	<50	<10
01N.30E.25.222	01-14-04	--	<.25	<.25	<.25	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	--	--	--	--	--
01N.30E.27.324	01-15-04	--	<.25	<.25	<.25	--	--	--	--	--	--
	07-04-04	--	--	--	--	--	--	--	--	--	--
01S.29E.12.222222	01-13-04	--	<.25	<.25	<.25	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	--	--	--	--	--

Local identifier	Date	3,3-Di'chloro-benzi-dine, water, unfltrd ug/L (34631)	3-Nitro-aniline water unfltrd ug/L (78300)	4-Amino-2,6-di-nitro-toluene wat unf ug/L (76987)	4-Bromo-phenyl phenyl ether, wat unf ug/L (34636)	4-Chloro-3-methyl-phenol, wat unf ug/L (34452)	4-Chloro-aniline water unfltrd ug/L (30343)	4-Chloro-phenyl phenyl ether, wat unf ug/L (34641)	4-Nitro-aniline water unfltrd ug/L (30196)	4-Nitro-phenol, water, unfltrd ug/L (34646)	9H-Fluor-ene, water, unfltrd ug/L (34381)
01N.30E.03.213334	01-13-04	--	--	<.25	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	--	--	--	--	--
01N.30E.05.112	01-13-04	--	--	<.25	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	--	--	--	--	--
01N.30E.13.414424	01-12-04	--	--	<.25	--	--	--	--	--	--	--
	07-21-04	--	--	--	--	--	--	--	--	--	--
01N.30E.15.324	01-14-04	--	--	<.25	--	--	--	--	--	--	--
	07-21-04	<50	<50	--	<10	<10	<10	<10	<50	<50	<10
01N.30E.16.233	01-15-04	--	--	<.25	--	--	--	--	--	--	--
01N.30E.22.321	01-14-04	--	--	<.25	--	--	--	--	--	--	--
	07-21-04	<50	<50	--	<10	<10	<10	<10	<50	<50	<10
01N.30E.25.222	01-14-04	--	--	<.25	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	--	--	--	--	--
01N.30E.27.324	01-15-04	--	--	<.25	--	--	--	--	--	--	--
	07-04-04	--	--	--	--	--	--	--	--	--	--
01S.29E.12.222222	01-13-04	--	--	<.25	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

ROOSEVELT COUNTY—CONTINUED

Local identifier	Date	Ace-naphth-ene, water, unfltrd ug/L (34205)	Ace-naphth-ylene, water, unfltrd ug/L (34200)	Aceto-phenone water unfltrd ug/L (62811)	Aldrin, water, unfltrd ug/L (39330)	alpha-Endo-sulfan, water, unfltrd ug/L (34361)	alpha-HCH, water, unfltrd ug/L (39337)	Anthra-cene, water, unfltrd ug/L (34220)	Azin-phos-methyl, water, unfltrd ug/L (82616)	Benzo-[a]-anthra-cene, water, unfltrd ug/L (34526)	Benzo-[a]-pyrene, water, unfltrd ug/L (34247)
01N.30E.03.213334	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	<.05	<.05	<.05	--	<2.5	--	--
01N.30E.05.112	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	<.05	<.05	<.05	--	<2.5	--	--
01N.30E.13.414424	01-12-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	--	--	--	<.05	<.05	<.05	--	<2.5	--	--
01N.30E.15.324	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<10	<10	<10	--	--	--	<10	--	<10	<10
01N.30E.16.233	01-15-04	--	--	--	--	--	--	--	--	--	--
01N.30E.22.321	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<10	<10	<10	--	--	--	<10	--	<10	<10
01N.30E.25.222	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	<.05	<.05	<.05	--	<2.5	--	--
01N.30E.27.324	01-15-04	--	--	--	--	--	--	--	--	--	--
	07-04-04	--	--	--	--	--	--	--	--	--	--
01S.29E.12.222222	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	<.05	<.05	<.05	--	<2.5	--	--

Local identifier	Date	Benzo-[b]-fluor-anthene water unfltrd ug/L (34230)	Benzo-[g,h,i]-per-ylene, water, unfltrd ug/L (34521)	Benzo-[k]-fluor-anthene water unfltrd ug/L (34242)	Benzyl alcohol water unfltrd ug/L (77147)	Benzyl n-butyl phthal-ate, water, unfltrd ug/L (34292)	beta-Endo-sulfan, water, unfltrd ug/L (34356)	beta-HCH, water, unfltrd ug/L (39338)	Bis(2-chloro-ethoxy) methane water unfltrd ug/L (34278)	Bis(2-chloro-ethyl) ether, water, unfltrd ug/L (34273)	Bis(2-chloro-iso-propyl) ether, wat unf ug/L (34283)
01N.30E.03.213334	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	<.05	<.05	--	--	--
01N.30E.05.112	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	<.05	<.05	--	--	--
01N.30E.13.414424	01-12-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	--	--	--	--	--	<.05	<.05	--	--	--
01N.30E.15.324	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<10	<10	<10	<10	<10	--	--	<10	<10	<10
01N.30E.16.233	01-15-04	--	--	--	--	--	--	--	--	--	--
01N.30E.22.321	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<10	<10	<10	<10	<10	--	--	<10	<10	<10
01N.30E.25.222	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	<.05	<.05	--	--	--
01N.30E.27.324	01-15-04	--	--	--	--	--	--	--	--	--	--
	07-04-04	--	--	--	--	--	--	--	--	--	--
01S.29E.12.222222	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	<.05	<.05	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

ROOSEVELT COUNTY—CONTINUED

Local identifier	Date	Bis(2-ethylhexyl) phthalate, wat unf ug/L (39100)	Chlorpyrifos water unfltrd ug/L (38932)	Chrysene, water, unfltrd ug/L (34320)	cis-Chlordane, water, unfltrd ug/L (39062)	Coumaphos, water, unfltrd ug/L (39005)	delta-HCH, water, unfltrd ug/L (34259)	Demeton water unfltrd ug/L (39560)	Dibenzo-[a,h]-anthracene, wat unf ug/L (34556)	Dibenzofuran, water, unfltrd ug/L (81302)	Dichlorvos, water, unfltrd ug/L (30218)
01N.30E.03.213334	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	<.50	--	<.05	<.50	<.05	<1.0	--	--	<.50
01N.30E.05.112	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	<.50	--	<.05	<.50	<.05	<1.0	--	--	<.50
01N.30E.13.414424	01-12-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	--	<.50	--	<.05	<.50	<.05	<1.0	--	--	.54
01N.30E.15.324	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<10	--	<10	--	--	--	--	<10	<10	--
01N.30E.16.233	01-15-04	--	--	--	--	--	--	--	--	--	--
01N.30E.22.321	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<10	--	<10	--	--	--	--	<10	<10	--
01N.30E.25.222	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	<.50	--	<.05	<.50	<.05	<1.0	--	--	<.50
01N.30E.27.324	01-15-04	--	--	--	--	--	--	--	--	--	--
	07-04-04	--	--	--	--	--	--	--	--	--	--
01S.29E.12.222222	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	<.50	--	<.05	<.50	<.05	<1.0	--	--	<.50

Local identifier	Date	Dieldrin, water, unfltrd ug/L (39380)	Diethyl phthalate, water, unfltrd ug/L (34336)	Dimethoate, water, unfltrd ug/L (39009)	Dimethyl phthalate, water, unfltrd ug/L (34341)	Di-n-butyl phthalate, water, unfltrd ug/L (39110)	Di-n-octyl phthalate, water, unfltrd ug/L (34596)	Diphenylamine, water, unfltrd ug/L (77579)	Disulfoton, water, unfltrd ug/L (39011)	Endosulfan sulfate water unfltrd ug/L (34351)	Endrin aldehyde, water, unfltrd ug/L (34366)
01N.30E.03.213334	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	<.05	--	<.50	--	--	--	--	<.50	<.05	<.05
01N.30E.05.112	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	<.05	--	<.50	--	--	--	--	<.50	<.05	<.05
01N.30E.13.414424	01-12-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<.05	--	<.50	--	--	--	--	<.50	<.05	<.05
01N.30E.15.324	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	--	<10	--	<10	<10	<10	<10	--	--	--
01N.30E.16.233	01-15-04	--	--	--	--	--	--	--	--	--	--
01N.30E.22.321	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	--	<10	--	<10	<10	<10	<10	--	--	--
01N.30E.25.222	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	<.05	--	<.50	--	--	--	--	<.50	<.05	<.05
01N.30E.27.324	01-15-04	--	--	--	--	--	--	--	--	--	--
	07-04-04	--	--	--	--	--	--	--	--	--	--
01S.29E.12.222222	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	<.05	--	<.50	--	--	--	--	<.50	<.05	<.05

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

ROOSEVELT COUNTY—CONTINUED

Local identifier	Date	Endrin ketone, water, unfltrd ug/L (78008)	Endrin, water, unfltrd ug/L (39390)	EPN, water, unfltrd ug/L (81290)	Ethoprop, water, unfltrd ug/L (81758)	Famphur water unfltrd ug/L (38462)	Fensulfothion, water, unfltrd ug/L (30004)	Fenthion, water, unfltrd ug/L (30006)	Fluoranthene water unfltrd ug/L (34376)	Heptachlor epoxide water unfltrd ug/L (39420)	Heptachlor, water, unfltrd ug/L (39410)
01N.30E.03.213334	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	<.05	<.05	<.50	<.50	<1.0	<2.5	<.50	--	<.05	<.05
01N.30E.05.112	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	<.05	<.05	<.50	<.50	<1.0	<2.5	<.50	--	<.05	<.05
01N.30E.13.414424	01-12-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<.05	<.05	<.50	<.50	<1.0	<2.5	<.50	--	<.05	<.05
01N.30E.15.324	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	--	--	--	--	--	--	--	<10	--	--
01N.30E.16.233	01-15-04	--	--	--	--	--	--	--	--	--	--
01N.30E.22.321	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	--	--	--	--	--	--	--	<10	--	--
01N.30E.25.222	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	<.05	<.05	<.50	<.50	<1.0	<2.5	<.50	--	<.05	<.05
01N.30E.27.324	01-15-04	--	--	--	--	--	--	--	--	--	--
	07-04-04	--	--	--	--	--	--	--	--	--	--
01S.29E.12.222222	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	<.05	<.05	<.50	<.50	<1.0	<2.5	<.50	--	<.05	<.05

Local identifier	Date	Hexachlorobenzene water unfltrd ug/L (39700)	Hexachlorocyclopentadiene, wat unf ug/L (34386)	Indeno-[1,2,-3-cd]-pyrene, water, unfltrd ug/L (34403)	Isophorone water unfltrd ug/L (34408)	Lindane water, unfltrd ug/L (39340)	Malathion, water, unfltrd ug/L (39530)	Merphos water, unfltrd ug/L (30009)	Methyl parathion, water, unfltrd ug/L (39600)	Mevinphos, water, unfltrd ug/L (39610)	Naled, water, unfltrd ug/L (38855)
01N.30E.03.213334	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	<.05	<1.2	<5.0	<.50	<6.2	<10
01N.30E.05.112	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	<.05	<1.2	<5.0	<.50	<6.2	<10
01N.30E.13.414424	01-12-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	--	--	--	--	<.05	<1.2	<5.0	<.50	<6.2	<10
01N.30E.15.324	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<10	<50	<10	<10	--	--	--	--	--	--
01N.30E.16.233	01-15-04	--	--	--	--	--	--	--	--	--	--
01N.30E.22.321	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<10	<50	<10	<10	--	--	--	--	--	--
01N.30E.25.222	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	<.05	<1.2	<5.0	<.50	<6.2	<10
01N.30E.27.324	01-15-04	--	--	--	--	--	--	--	--	--	--
	07-04-04	--	--	--	--	--	--	--	--	--	--
01S.29E.12.222222	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	<.05	<1.2	<5.0	<.50	<6.2	<10

Local identifier	Date	Nitrobenzene water unfltrd ug/L (34447)	N-NItroso-dimethylamine, wat unf ug/L (34438)	N-NItroso-di-n-propylamine, wat unf ug/L (34428)	N-NItroso-diphenylamine, wat unf ug/L (34433)	o-Cresol, water, unfltrd ug/L (77152)	p,p'-DDD, water, unfltrd ug/L (39310)	p,p'-DDE, water, unfltrd ug/L (39320)	p,p'-DDT, water, unfltrd ug/L (39300)	p,p'-Methoxychlor, water, unfltrd ug/L (39480)	Parathion, water, unfltrd ug/L (39540)
01N.30E.03.213334	01-13-04	<.25	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	<.05	<.05	<.05	<.10	<.50
01N.30E.05.112	01-13-04	<.25	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	<.05	<.05	<.05	<.10	<.50
01N.30E.13.414424	01-12-04	<.25	--	--	--	--	--	--	--	--	--
	07-21-04	--	--	--	--	--	<.05	<.05	<.05	<.10	<.50
01N.30E.15.324	01-14-04	<.25	--	--	--	--	--	--	--	--	--
	07-21-04	<10	<10	<10	<10	<10	--	--	--	--	--
01N.30E.16.233	01-15-04	<.25	--	--	--	--	--	--	--	--	--
01N.30E.22.321	01-14-04	<.25	--	--	--	--	--	--	--	--	--
	07-21-04	<10	<10	<10	<10	<10	--	--	--	--	--
01N.30E.25.222	01-14-04	<.25	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	<.05	<.05	<.05	<.10	<.50
01N.30E.27.324	01-15-04	<.25	--	--	--	--	--	--	--	--	--
	07-04-04	--	--	--	--	--	--	--	--	--	--
01S.29E.12.222222	01-13-04	<.25	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	<.05	<.05	<.05	<.10	<.50

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

ROOSEVELT COUNTY—CONTINUED

Local identifier	Date	p-Cresol, water, unfltrd ug/L (77146)	Pentachlorobenzene water unfltrd ug/L (77793)	Pentachloroethane, water, unfltrd ug/L (81501)	Pentachlorophenol, water, unfltrd ug/L (39032)	Perchlorate, water, unfltrd ug/L (61209)	Phenanthrene, water, unfltrd ug/L (34461)	Phenol, water, unfltrd ug/L (34694)	Phorate water unfltrd ug/L (39023)	Propyzamide, water, unfltrd ug/L (39080)	Pyrene, water, unfltrd ug/L (34469)
01N.30E.03.213334	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	3.5	--	--	<.50	--	--
01N.30E.05.112	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	2.0	--	--	<.50	--	--
01N.30E.13.414424	01-12-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	--	--	--	--	7.6	--	--	<.50	--	--
01N.30E.15.324	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<10	<10	<50	<50	1.9	<10	<10	--	<20	<10
01N.30E.16.233	01-15-04	--	--	--	--	--	--	--	--	--	--
01N.30E.22.321	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<10	<10	<50	<50	23	<10	<10	--	<20	<10
01N.30E.25.222	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	<1.0	--	--	<.50	--	--
01N.30E.27.324	01-15-04	--	--	--	--	--	--	--	--	--	--
	07-04-04	--	--	--	--	3.5	--	--	--	--	--
01S.29E.12.222222	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	E.2	--	--	<.50	--	--

Local identifier	Date	RDX, water unfltrd ug/L (81364)	Ronnel, water, unfltrd ug/L (39357)	Sulfotepp, water, unfltrd ug/L (82201)	Sulprofos, water unfltrd ug/L (38715)	Tetryl, water, unfltrd ug/L (62226)	Thionazin, water, unfltrd ug/L (63690)	TNT, water unfltrd ug/L (81360)	Tokuthion, water, unfltrd ug/L (38564)	Toxaphene, water, unfltrd ug/L (39400)	trans-Chlordane, water, unfltrd ug/L (39065)
01N.30E.03.213334	01-13-04	<.25	--	--	--	<.50	--	<.25	--	--	--
	07-20-04	--	<10	<.50	<.50	--	<.50	--	<.50	<5.0	<.05
01N.30E.05.112	01-13-04	<.25	--	--	--	<.50	--	<.25	--	--	--
	07-19-04	--	<10	<.50	<.50	--	<.50	--	<.50	<5.0	<.05
01N.30E.13.414424	01-12-04	<.25	--	--	--	<.50	--	<.25	--	--	--
	07-21-04	--	<10	<.50	<.50	--	<.50	--	<.50	<5.0	<.05
01N.30E.15.324	01-14-04	<.25	--	--	--	<.50	--	<.25	--	--	--
	07-21-04	--	--	--	--	--	--	--	--	--	--
01N.30E.16.233	01-15-04	<.25	--	--	--	<.50	--	<.25	--	--	--
01N.30E.22.321	01-14-04	<.25	--	--	--	<.50	--	<.25	--	--	--
	07-21-04	--	--	--	--	--	--	--	--	--	--
01N.30E.25.222	01-14-04	<.25	--	--	--	<.50	--	<.25	--	--	--
	07-19-04	--	<10	<.50	<.50	--	<.50	--	<.50	<5.0	<.05
01N.30E.27.324	01-15-04	<.25	--	--	--	<.50	--	<.25	--	--	--
	07-04-04	--	--	--	--	--	--	--	--	--	--
01S.29E.12.222222	01-13-04	<.25	--	--	--	<.50	--	<.25	--	--	--
	07-20-04	--	<10	<.50	<.50	--	<.50	--	<.50	<5.0	<.05

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

ROOSEVELT COUNTY—CONTINUED

Local identifier	Date	Tri-chloro-nate, water, unfltrd ug/L (38897)	1,1,1,2 -Tetra-chloro-ethane, water, unfltrd ug/L (77562)	1,1,1-Tri-chloro-ethane, water, unfltrd ug/L (34506)	1,1,2,2 -Tetra-chloro-ethane, water, unfltrd ug/L (34516)	CFC-113 water unfltrd ug/L (77652)	1,1,2-Tri-chloro-ethane, water, unfltrd ug/L (34511)	1,1-Di-chloro-ethane, water unfltrd ug/L (34496)	1,1-Di-chloro-ethene, water, unfltrd ug/L (34501)	1,1-Di-chloro-propene water unfltrd ug/L (77168)	1,2,3-Tri-chloro-benzene water unfltrd ug/L (77613)
01N.30E.03.213334	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	<.50	--	--	--	--	--	--	--	--	--
01N.30E.05.112	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	<.50	--	--	--	--	--	--	--	--	--
01N.30E.13.414424	01-12-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<.50	--	--	--	--	--	--	--	--	--
01N.30E.15.324	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
01N.30E.16.233	01-15-04	--	--	--	--	--	--	--	--	--	--
01N.30E.22.321	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
01N.30E.25.222	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	<.50	--	--	--	--	--	--	--	--	--
01N.30E.27.324	01-15-04	--	--	--	--	--	--	--	--	--	--
	07-04-04	--	--	--	--	--	--	--	--	--	--
01S.29E.12.222222	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	<.50	--	--	--	--	--	--	--	--	--

Local identifier	Date	1,2,3-Tri-chloro-propane water unfltrd ug/L (77443)	1,2,4-Tri-chloro-benzene water unfltrd ug/L (34551)	1,2,4-Tri-methyl-benzene water unfltrd ug/L (77222)	Dibromo chloro-propane water unfltrd ug/L (82625)	1,2-Di-bromo-ethane, water, unfltrd ug/L (77651)	1,2-Di-chloro-benzene water unfltrd ug/L (34536)	1,2-Di-chloro-ethane, water, unfltrd ug/L (32103)	1,2-Di-chloro-propane water unfltrd ug/L (34541)	1,3,5-Tri-methyl-benzene water unfltrd ug/L (77226)	1,3-Di-chloro-benzene water unfltrd ug/L (34566)
01N.30E.03.213334	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	--	--	--	--	--
01N.30E.05.112	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	--	--	--	--	--
01N.30E.13.414424	01-12-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	--	--	--	--	--	--	--	--	--	--
01N.30E.15.324	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<1.0	<10	E.3	<2.0	<1.0	<10	<1.0	<1.0	<1.0	<10
01N.30E.16.233	01-15-04	--	--	--	--	--	--	--	--	--	--
01N.30E.22.321	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<1.0	<10	<1.0	<2.0	<1.0	<10	<1.0	<1.0	<1.0	<10
01N.30E.25.222	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	--	--	--	--	--
01N.30E.27.324	01-15-04	--	--	--	--	--	--	--	--	--	--
	07-04-04	--	--	--	--	--	--	--	--	--	--
01S.29E.12.222222	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

ROOSEVELT COUNTY—CONTINUED

Local identifier	Date	1,3-Dichloropropane water unfltrd ug/L (77173)	1,4-Dichlorobenzene water unfltrd ug/L (34571)	2,2-Dichloropropane water unfltrd ug/L (77170)	2-Chlorotoluene water unfltrd ug/L (77275)	4-Chlorotoluene water unfltrd ug/L (77277)	4-Isopropyltoluene water unfltrd ug/L (77356)	Acetone water unfltrd ug/L (81552)	Benzene water unfltrd ug/L (34030)	Bromobenzene water unfltrd ug/L (81555)	Bromochloromethane water unfltrd ug/L (77297)
01N.30E.03.213334	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	--	--	--	--	--
01N.30E.05.112	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	--	--	--	--	--
01N.30E.13.414424	01-12-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	--	--	--	--	--	--	--	--	--	--
01N.30E.15.324	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<1.0	<10	<5.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
01N.30E.16.233	01-15-04	--	--	--	--	--	--	--	--	--	--
01N.30E.22.321	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<1.0	<10	<5.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0
01N.30E.25.222	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	--	--	--	--	--
01N.30E.27.324	01-15-04	--	--	--	--	--	--	--	--	--	--
	07-04-04	--	--	--	--	--	--	--	--	--	--
01S.29E.12.222222	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	--	--	--	--	--

Local identifier	Date	Bromodichloromethane water unfltrd ug/L (32101)	Bromomethane water unfltrd ug/L (34413)	Carbon disulfide water unfltrd ug/L (77041)	Chlorobenzene water unfltrd ug/L (34301)	Chloroethane, water, unfltrd ug/L (34311)	Chloromethane water unfltrd ug/L (34418)	cis-1,2-Dichloroethene, water, unfltrd ug/L (77093)	cis-1,3-Dichloropropene water unfltrd ug/L (34704)	Dibromochloromethane water unfltrd ug/L (32105)	Dibromomethane water unfltrd ug/L (30217)
01N.30E.03.213334	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	--	--	--	--	--
01N.30E.05.112	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	--	--	--	--	--
01N.30E.13.414424	01-12-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	--	--	--	--	--	--	--	--	--	--
01N.30E.15.324	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<1.0	<2.0	<1.0	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
01N.30E.16.233	01-15-04	--	--	--	--	--	--	--	--	--	--
01N.30E.22.321	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<1.0	<2.0	<1.0	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0
01N.30E.25.222	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	--	--	--	--	--
01N.30E.27.324	01-15-04	--	--	--	--	--	--	--	--	--	--
	07-04-04	--	--	--	--	--	--	--	--	--	--
01S.29E.12.222222	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

ROOSEVELT COUNTY—CONTINUED

Local identifier	Date	Di-chloro-di-fluoro-methane wat unf ug/L (34668)	Di-chloro-methane water unfltrd ug/L (34423)	Di-ethyl ether, water, unfltrd ug/L (81576)	Ethyl methyl ketone, water, unfltrd ug/L (81595)	Ethyl-benzene water unfltrd ug/L (34371)	Hexa-chloro-buta-diene, water, unfltrd ug/L (39702)	Hexa-chloro-ethane, water, unfltrd ug/L (34396)	Iso-butyl methyl ketone, water, unfltrd ug/L (78133)	Iso-propyl-benzene water unfltrd ug/L (77223)	meta- + para-Xylene, water, unfltrd ug/L (85795)
01N.30E.03.213334	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	--	--	--	--	--
01N.30E.05.112	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	--	--	--	--	--
01N.30E.13.414424	01-12-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	--	--	--	--	--	--	--	--	--	--
01N.30E.15.324	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<2.0	E.4	<10	<5.0	E.3	<10	<10	<5.0	<1.0	E1.0
01N.30E.16.233	01-15-04	--	--	--	--	--	--	--	--	--	--
01N.30E.22.321	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<2.0	E.4	<10	<5.0	<1.0	<10	<10	<5.0	<1.0	E.5
01N.30E.25.222	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	--	--	--	--	--
01N.30E.27.324	01-15-04	--	--	--	--	--	--	--	--	--	--
	07-04-04	--	--	--	--	--	--	--	--	--	--
01S.29E.12.222222	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	--	--	--	--	--

Local identifier	Date	Naphth-alene, water, unfltrd ug/L (34696)	Methyl n-butyl ketone, water, unfltrd ug/L (77103)	n-Butyl benzene water unfltrd ug/L (77342)	n-propyl-benzene water unfltrd ug/L (77224)	o-Xylene, water, unfltrd ug/L (77135)	sec-Butyl-benzene water unfltrd ug/L (77350)	Styrene water unfltrd ug/L (77128)	Methyl t-butyl ether, water, unfltrd ug/L (78032)	tert-Butyl-benzene water unfltrd ug/L (77353)	Tetra-chloro-ethene, water, unfltrd ug/L (34475)
01N.30E.03.213334	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	--	--	--	--	--
01N.30E.05.112	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	--	--	--	--	--
01N.30E.13.414424	01-12-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	--	--	--	--	--	--	--	--	--	--
01N.30E.15.324	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<10	<5.0	<1.0	<1.0	E.3	<1.0	<1.0	<5.0	<1.0	<1.0
01N.30E.16.233	01-15-04	--	--	--	--	--	--	--	--	--	--
01N.30E.22.321	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-21-04	<10	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
01N.30E.25.222	01-14-04	--	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	--	--	--	--	--
01N.30E.27.324	01-15-04	--	--	--	--	--	--	--	--	--	--
	07-04-04	--	--	--	--	--	--	--	--	--	--
01S.29E.12.222222	01-13-04	--	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

ROOSEVELT COUNTY—CONTINUED

Local identifier	Date	Tetra-chloro-methane water unfltrd ug/L (32102)	Toluene water unfltrd ug/L (34010)	trans-1,2-Di-chloro-ethene, water, unfltrd ug/L (34546)	trans-1,3-Di-chloro-propene water unfltrd ug/L (34699)	Tri-bromo-methane water unfltrd ug/L (32104)	Tri-chloro-ethene, water, unfltrd ug/L (39180)	Tri-chloro-fluoro-methane water unfltrd ug/L (34488)	Tri-chloro-methane water unfltrd ug/L (32106)	Vinyl chlor-ide, water, unfltrd ug/L (39175)
01N.30E.03.213334	01-13-04	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	--	--	--	--
01N.30E.05.112	01-13-04	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	--	--	--	--
01N.30E.13.414424	01-12-04	--	--	--	--	--	--	--	--	--
	07-21-04	--	--	--	--	--	--	--	--	--
01N.30E.15.324	01-14-04	--	--	--	--	--	--	--	--	--
	07-21-04	<1.0	E1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0
01N.30E.16.233	01-15-04	--	--	--	--	--	--	--	--	--
01N.30E.22.321	01-14-04	--	--	--	--	--	--	--	--	--
	07-21-04	<1.0	E.4	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0
01N.30E.25.222	01-14-04	--	--	--	--	--	--	--	--	--
	07-19-04	--	--	--	--	--	--	--	--	--
01N.30E.27.324	01-15-04	--	--	--	--	--	--	--	--	--
	07-04-04	--	--	--	--	--	--	--	--	--
01S.29E.12.222222	01-13-04	--	--	--	--	--	--	--	--	--
	07-20-04	--	--	--	--	--	--	--	--	--

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

SANDOVAL COUNTY

Local identifier	Station number	County	Station type	Date	Time	Geologic unit	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Dissolved oxygen, mg/L (00300)
12N.05E.24	351501106211701	043	GW	11-25-03	0930	318ABO U	250	191.55	6,593	>1.0
12N.05E.36	351400106215401	043	GW	12-02-03	1255	--	400	235.98	6,801	>1.0
12N.06E.25	351430106145101	043	GW	12-17-03	0855	318ABO L	300	63.40	6,549	>1.0
12N.06E.28	351435106180201	043	SP	11-19-03	0930	--	--	--	6,150	>1.0
	351350106175301	043	SP	11-19-03	1115	--	--	--	6,253	>1.0
12N.06E.29	351418106192001	043	GW	11-14-03	1200	325MDER	110	96.81	6,477	>1.0
12N.06E.30	351419106200501	043	GW	11-18-03	1230	325MDER	240	158.84	6,506	>1.0
12N.06E.31	351335106201701	043	GW	11-18-03	0945	325MDER	375	280.48	6,611	.1

Local identifier	Date	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)
12N.05E.24	11-25-03	7.7	540	4.0	13.6	--	220	33.3	32.2	3.56	1
12N.05E.36	12-02-03	7.3	507	14.5	13.9	11	250	90.1	6.20	1.09	.2
12N.06E.25	12-17-03	7.8	490	2.0	13.9	--	210	41.9	25.6	3.49	.8
12N.06E.28	11-19-03	7.4	646	15.0	13.1	--	300	87.3	18.7	1.13	.5
	11-19-03	7.6	617	16.0	11.5	--	300	90.4	16.8	.89	.4
12N.06E.29	11-14-03	7.3	594	13.0	14.6	11	290	83.5	18.9	1.72	.4
12N.06E.30	11-18-03	7.4	492	14.0	14.7	--	240	84.5	6.11	.90	.2
12N.06E.31	11-18-03	7.3	536	.0	15.3	--	260	70.9	19.9	1.80	.3

Local identifier	Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)
12N.05E.24	11-25-03	36.2	--	258	.10	4.98	1.4	25.3	32.3	327	298
12N.05E.36	12-02-03	7.96	--	240	.12	10.5	.3	16.8	20.1	300	192
12N.06E.25	12-17-03	27.0	--	222	.13	8.31	2.4	13.2	27.1	283	266
12N.06E.28	11-19-03	21.4	255	--	.14	14.4	.4	19.0	76.2	392	378
	11-19-03	15.7	240	--	.13	15.4	.3	18.5	74.8	378	272
12N.06E.29	11-14-03	16.0	--	276	.15	11.0	.7	13.7	36.1	350	226
12N.06E.30	11-18-03	6.10	199	--	.06	25.7	.3	14.9	15.5	277	261
12N.06E.31	11-18-03	11.3	240	--	.16	9.87	.6	20.3	37.7	317	306

Local identifier	Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)	Total nitrogen, wat flt by analysis, mg/L (62854)	Organic carbon, water, unfltrd mg/L (00680)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)
12N.05E.24	11-25-03	<.04	.31	<.008	--	E.003	.29	.8	2	<.20	.6
12N.05E.36	12-02-03	<.04	.44	<.008	--	E.005	.43	.5	E1	<.20	.3
12N.06E.25	12-17-03	<.04	<.06	<.008	--	<.006	<.03	.9	2	.87	.8
12N.06E.28	11-19-03	<.04	<.06	<.008	.025	.008	<.03	1.1	<2	<.20	.5
	11-19-03	<.04	<.06	<.008	.018	.006	<.03	3.0	<2	<.20	.7
12N.06E.29	11-14-03	<.04	.40	<.008	--	E.004	.35	.5	E1	<.20	.5
12N.06E.30	11-18-03	<.04	.54	<.008	.034	.011	.67	5.7	<2	<.20	.4
12N.06E.31	11-18-03	<.04	<.06	<.008	--	<.006	<.03	E.3	2	E.11	.3

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

SANDOVAL COUNTY—CONTINUED

Local identifier	Date	Barium, water, fltrd, ug/L (01005)	Beryll-ium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chrom-ium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)
12N.05E.24	11-25-03	84	<.06	148	E.02	E.6	.095	.7	<6	E.05	56.2
12N.05E.36	12-02-03	148	<.06	13	<.04	<.8	.311	1.8	<6	.76	8.8
12N.06E.25	12-17-03	78	<.06	66	.07	<.8	.261	3.8	<6	1.40	44.4
12N.06E.28	11-19-03	115	<.06	39	.05	<.8	.282	1.3	<6	E.07	17.8
	11-19-03	91	<.06	31	<.04	<.8	.378	1.2	E4	E.04	12.6
12N.06E.29	11-14-03	108	<.06	35	<.04	E.5	.256	4.1	<6	.15	24.0
12N.06E.30	11-18-03	155	<.06	13	<.04	<.8	.265	.8	<6	.11	6.7
12N.06E.31	11-18-03	79	<.06	34	<.04	<.8	.261	.9	49	<.08	26.5

Local identifier	Date	Mangan-ese, water, fltrd, ug/L (01056)	Molyb-denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen-ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Stront-ium, water, fltrd, ug/L (01080)	Thall-ium, water, fltrd, ug/L (01057)	Vanad-ium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Deu-terium/ Protium ratio, water, unfltrd per mil (82082)
12N.05E.24	11-25-03	<.2	6.4	.73	5.8	<.2	824	<.04	4.4	8.8	-94.90
12N.05E.36	12-02-03	.5	.7	2.30	1.6	<.2	299	<.04	1.4	33.5	-84.73
12N.06E.25	12-17-03	6.2	5.9	1.73	.4	<.2	850	<.04	.9	8.6	-74.96
12N.06E.28	11-19-03	.5	1.5	1.97	.9	<.2	541	<.04	2.6	28.0	-78.93
	11-19-03	17.1	1.5	2.06	.7	<.2	513	<.04	2.3	12.2	-78.66
12N.06E.29	11-14-03	<.2	1.6	2.01	1.6	<.2	471	.04	1.3	18.6	-83.36
12N.06E.30	11-18-03	E.1	.8	1.94	.6	<.2	281	<.04	1.4	.8	-82.93
12N.06E.31	11-18-03	5.7	3.1	3.57	E.4	<.2	648	.13	.5	5.6	-81.67

Local identifier	Date	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Uranium natural water, fltrd, ug/L (22703)
12N.05E.24	11-25-03	-13.12	14.7
12N.05E.36	12-02-03	-11.97	2.47
12N.06E.25	12-17-03	-10.29	3.22
12N.06E.28	11-19-03	-10.80	2.67
	11-19-03	-10.83	2.56
12N.06E.29	11-14-03	-11.68	3.68
12N.06E.30	11-18-03	-11.70	2.20
12N.06E.31	11-18-03	-11.20	1.42

Remark codes used in this table:
< -- Less than
> -- Greater than
E -- Estimated value

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

SANTA FE COUNTY

Local identifier	Station number	County	Station type	Date	Time	Geologic unit	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Dissolved oxygen, mg/L (00300)
10N.07E.17.4214	350523106124001	049	GW	12-02-03	0930	325MDER	530	--	6,600	>1.0
10N.07E.34.212	350317106104101	049	GW	12-05-03	0930	325MDER	520	--	6,633	.1
11N.07E.02.444	351201106092201	049	GW	12-05-03	1355	--	--	--	6,764.	>1.0
11N.07E.15.331	351026106112601	049	GW	12-17-03	1200	325MDER	340	177.69	6,852	>1.0
12N.07E.34.113	351333106112201	049	GW	12-04-03	1040	325MDER	285	116.55	7,096	>1.0

Local identifier	Date	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)
10N.07E.17.4214	12-02-03	6.7	1,380	11.5	9.6	35	780	259	31.6	3.10	.3
10N.07E.34.212	12-05-03	6.6	1,840	-1.0	16.9	--	870	247	60.1	5.62	1
11N.07E.02.444	12-05-03	7.8	467	8.0	9.0	14	220	58.9	16.6	1.26	.6
11N.07E.15.331	12-17-03	7.6	468	11.0	15.2	7	200	48.5	20.0	1.62	.7
12N.07E.34.113	12-04-03	7.3	608	10.5	12.7	74	320	102	15.1	1.08	.3

Local identifier	Date	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)
10N.07E.17.4214	12-02-03	19.3	743	.35	31.9	<.2	17.1	28.9	847	344	E.02
10N.07E.34.212	12-05-03	74.8	897	.18	106	.7	16.2	53.8	1,150	630	.07
11N.07E.02.444	12-05-03	20.2	202	.16	9.82	.3	30.4	33.2	296	287	<.04
11N.07E.15.331	12-17-03	24.0	198	.18	12.8	.4	26.5	24.9	289	257	<.04
12N.07E.34.113	12-04-03	13.2	244	.24	17.1	.2	20.3	53.4	378	329	<.04

Local identifier	Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)	Total nitrogen, wat flt by analysis, mg/L (62854)	Organic carbon, water, unfltrd mg/L (00680)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)
10N.07E.17.4214	12-02-03	1.98	<.008	.058	.019	1.94	1.9	M	<.20	1.0	476
10N.07E.34.212	12-05-03	<.06	<.008	--	<.006	.08	20.7	3	<.20	.2	216
11N.07E.02.444	12-05-03	.86	<.008	.083	.027	.83	1.1	E2	<.20	2.0	82
11N.07E.15.331	12-17-03	2.40	<.008	.040	.013	2.48	2.4	E1	<.20	2.0	35
12N.07E.34.113	12-04-03	1.86	<.008	.040	.013	1.82	1.7	2	<.20	.5	52

Local identifier	Date	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)
10N.07E.17.4214	12-02-03	<.06	48	.06	<.8	.852	7.4	E4	.28	29.2	1.6
10N.07E.34.212	12-05-03	<.06	129	E.04	<.8	1.88	1.6	42,700	E.04	70.1	518
11N.07E.02.444	12-05-03	<.06	27	<.04	<.8	.127	1.1	14	<.08	7.2	.5
11N.07E.15.331	12-17-03	<.06	57	<.04	<.8	.105	6.6	<6	.13	16.7	E.1
12N.07E.34.113	12-04-03	<.06	28	<.04	<.8	.416	1.2	<6	.19	11.9	5.5

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

SANTA FE COUNTY—CONTINUED

Local identifier	Date	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Thallium, water, fltrd, ug/L (01057)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)
10N.07E.17.4214	12-02-03	<.4	11.3	4.2	<.2	1,270	<.04	4.8	24.9	-69.18	-9.83
10N.07E.34.212	12-05-03	<.4	5.84	1.4	1.2	1,450	<.04	3.2	17.5	-70.58	-9.82
11N.07E.02.444	12-05-03	1.8	.87	1.6	<.2	444	<.04	7.3	22.9	-76.11	-10.95
11N.07E.15.331	12-17-03	1.0	.75	2.9	<.2	572	<.04	9.3	1.6	-74.37	-10.71
12N.07E.34.113	12-04-03	.5	1.20	3.2	<.2	489	<.04	1.4	72.6	-77.36	-10.88

Local identifier	Date	Uranium natural water, fltrd, ug/L (22703)
10N.07E.17.4214	12-02-03	6.49
10N.07E.34.212	12-05-03	4.29
11N.07E.02.444	12-05-03	1.81
11N.07E.15.331	12-17-03	2.65
12N.07E.34.113	12-04-03	1.72

Remark codes used in this table:
< -- Less than
> -- Greater than
E -- Estimated value
M -- Presence verified, not quantified

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

SIERRA COUNTY

Local identifier	Station number	County	Station type	Date	Time	Geologic unit	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Barometric pressure, mm Hg (00025)
17S.05W.01.4244	325123107175701	051	GW	05-12-04	1200	110ALVM	21.83	11.66	4,140.	652

Local identifier	Date	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
17S.05W.01.4244	05-12-04	.3	4	7.4	1,270	30.0	19.8	130	370	117	18.5

Local identifier	Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt Gran, field, mg/L as CaCO3 (29802)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)
17S.05W.01.4244	05-12-04	5.48	3	137	237	235	.24	112	.8	21.9	247

Local identifier	Date	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Total nitrogen, wat flt by analysis, mg/L (62854)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)
17S.05W.01.4244	05-12-04	805	810	E.03	.08	<.008	E.005	.19	M	E.12	1.1

Local identifier	Date	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)
17S.05W.01.4244	05-12-04	59	<.06	200	E.02	<.8	.390	2.0	553	<.08	104

Local identifier	Date	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Thallium, water, fltrd, ug/L (01057)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)
17S.05W.01.4244	05-12-04	878	8.3	2.36	E.4	<.2	772	<.04	.4	1.0	-62.20

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

SIERRA COUNTY—CONTINUED

Local identifier	Date	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Uranium natural water, fltrd, ug/L (22703)
17S.05W.01.4244	05-12-04	-6.75	4.83

Remark codes used in this table:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

EL PASO COUNTY, TX

Local identifier	Station number	County	Station type	Date	Time	Geologic unit	Depth of well, feet below LSD (72008)	Depth to bot sample intrval feet below LSD (72016)	Depth to top sample intrval feet below LSD (72015)	Depth to water level, feet below LSD (72019)
JL-49-04-171	315900106360101	141	GW	08-24-04	0835	112SNTF	768.00	758	437	--
JL-49-04-185	315837106361301	141	GW	08-24-04	0905	112SNTF	850.00	850	510	--
JL-49-04-210	315831106345401	141	GW	08-25-04	1040	112SNTF	500.00	492	332	--
JL-49-04-470	315712106362301	141	GW	09-03-04	0945	112SNTF	58.00	56	51	13.88
JL-49-04-471	315712106362302	141	GW	09-07-04	1230	112SNTF	158.00	156	151	20.31
JL-49-04-472	315712106362303	141	GW	09-08-04	1210	112SNTF	298.00	296	291	40.28
JL-49-04-475	315712106361802	141	GW	08-31-04	1515	112SNTF	158.00	156	151	19.27
JL-49-04-476	315712106361803	141	GW	09-01-04	0950	112SNTF	300.00	298	293	39.50
JL-49-04-477	315712106361804	141	GW	09-01-04	1555	112SNTF	799.00	797	792	49.60
JL-49-04-481	315712106361204	141	GW	09-02-04	1445	112SNTF	803.00	801	796	52.81
JL-49-04-498	315656106350701	141	GW	10-28-03	1230	112SNTF	300.00	290	280	165.38

Local identifier	Date	Altitude of land surface feet (72000)	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
JL-49-04-171	08-24-04	3,810	1,240	>30	667	--	--	8.3	793	23.0	33.0
JL-49-04-185	08-24-04	3,790	1,210	20	670	--	--	8.6	504	21.0	32.0
JL-49-04-210	08-25-04	3,920	460	7	--	--	--	7.8	1,800	23.0	31.0
JL-49-04-470	09-03-04	3,774	4.0	70	670	<.1	--	7.7	1,130	26.0	20.1
JL-49-04-471	09-07-04	3,774	4.0	120	673	<.1	--	8.0	1,080	--	20.0
JL-49-04-472	09-08-04	3,774	4.0	175	672	<.1	--	8.3	1,020	31.0	24.0
JL-49-04-475	08-31-04	3,774	4.0	221	670	<.1	--	7.8	1,100	33.0	19.7
JL-49-04-476	09-01-04	3,774	4.0	140	673	<.1	--	8.3	1,030	24.0	23.0
JL-49-04-477	09-01-04	3,774	4.0	295	673	<.1	--	9.0	455	29.5	27.7
JL-49-04-481	09-02-04	3,777	4.0	360	670	<.1	--	9.0	1,710	31.5	27.4
JL-49-04-498	10-28-03	3,900	.95	245	662	.1	1	7.7	1,420	21.5	26.5

Local identifier	Date	Noncarb hardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)
JL-49-04-171	08-24-04	--	72	28.3	.256	3.25	7	132	82	E96	E2
JL-49-04-185	08-24-04	--	21	8.37	.086	1.92	9	93.1	76	87	2
JL-49-04-210	08-25-04	90	240	56.3	23.1	25.8	7	260	152	183	--
JL-49-04-470	09-03-04	70	250	61.4	23.5	7.88	3	125	184	222	--
JL-49-04-471	09-07-04	--	120	42.8	2.95	4.73	7	181	166	200	--
JL-49-04-472	09-08-04	56	110	37.2	4.11	4.98	6	154	56	66	--
JL-49-04-475	08-31-04	51	230	66.9	14.6	5.61	3	121	180	217	--
JL-49-04-476	09-01-04	55	110	36.8	3.91	4.71	7	160	56	66	--
JL-49-04-477	09-01-04	--	8	3.29	.019	.75	12	81.0	62	E67	E3
JL-49-04-481	09-02-04	97	120	48.7	.153	3.30	11	273	26	E27	E2
JL-49-04-498	10-28-03	36	200	36.3	25.8	9.91	9	283	164	200	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

EL PASO COUNTY, TX—CONTINUED

Local identifier	Date	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L (00660)
JL-49-04-171	08-24-04	114	.6	31.1	114	473	481	<.04	<.06	<.008	--
JL-49-04-185	08-24-04	44.7	.7	29.9	81.8	306	309	<.04	<.06	<.008	--
JL-49-04-210	08-25-04	339	1.8	31.5	189	1,020	1,040	E.04	<.06	<.008	--
JL-49-04-470	09-03-04	104	.7	31.2	214	680	727	<.04	.14	.078	--
JL-49-04-471	09-07-04	101	.6	36.9	202	671	704	<.04	<.06	<.008	--
JL-49-04-472	09-08-04	128	.5	29.6	217	608	641	<.04	<.06	<.008	--
JL-49-04-475	08-31-04	104	.6	26.9	213	661	575	<.04	<.06	<.008	--
JL-49-04-476	09-01-04	134	.5	29.8	211	614	661	<.04	<.06	<.008	--
JL-49-04-477	09-01-04	42.7	.9	24.0	72.7	263	284	<.04	<.06	<.008	--
JL-49-04-481	09-02-04	331	.3	19.7	251	944	1,000	<.04	<.06	<.008	--
JL-49-04-498	10-28-03	284	1.8	28.4	251	1,020	1,040	.48	<.06	<.008	.040

Local identifier	Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Total nitrogen, wat flt by analysis, mg/L (62854)	Organic carbon, water, fltrd, mg/L (00681)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)
JL-49-04-171	08-24-04	<.006	E.004	<.03	--	2	<.20	9	70	<.06	132
JL-49-04-185	08-24-04	E.004	E.003	<.03	--	4	<.20	10	41	<.06	128
JL-49-04-210	08-25-04	E.003	.004	<.03	--	E1	<.20	12	39	<.06	248
JL-49-04-470	09-03-04	<.006	.005	.23	--	E1	<.20	3	56	<.06	191
JL-49-04-471	09-07-04	<.006	.005	.09	--	E1	<.20	14	41	<.06	198
JL-49-04-472	09-08-04	<.006	.004	.06	--	E1	<.20	12	72	<.06	100
JL-49-04-475	08-31-04	<.006	E.004	.13	--	E1	<.20	7	57	<.06	187
JL-49-04-476	09-01-04	<.006	<.004	.11	--	<2	<.20	11	65	<.06	103
JL-49-04-477	09-01-04	E.004	E.003	<.03	--	15	<.20	14	6	<.06	82
JL-49-04-481	09-02-04	<.006	<.004	.04	--	9	<.20	<2	50	<.06	65
JL-49-04-498	10-28-03	.013	.015	1.04	4.4	4	--	3.9	26	--	240

Local identifier	Date	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Molybdenum, water, fltrd, ug/L (01060)
JL-49-04-171	08-24-04	E.04	<.8	.095	1.1	13	.21	58	1.1	<.02	9.3
JL-49-04-185	08-24-04	<.04	<.8	.031	.6	16	.10	42	4.1	<.02	7.3
JL-49-04-210	08-25-04	E.03	<.8	.215	1.7	20	<.08	135	22.8	<.02	6.8
JL-49-04-470	09-03-04	E.03	<.8	.637	2.6	17	<.08	103	122	<.02	8.0
JL-49-04-471	09-07-04	E.03	<.8	.166	1.9	<6	E.05	85	10.6	<.02	8.0
JL-49-04-472	09-08-04	E.03	<.8	.126	2.0	<6	<.08	63	19.2	<.02	9.1
JL-49-04-475	08-31-04	E.02	<.8	.278	1.9	E4	E.07	97	23.3	<.02	8.5
JL-49-04-476	09-01-04	E.02	<.8	.121	1.7	<6	E.06	89	15.2	<.02	9.2
JL-49-04-477	09-01-04	<.04	<.8	E.013	.6	<6	<.08	30	2.9	<.02	4.6
JL-49-04-481	09-02-04	<.04	<.8	.141	2.2	<6	<.08	95	.8	<.02	3.2
JL-49-04-498	10-28-03	.04	<.8	1.30	1.9	220	E.05	--	382	<.02	13.4

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—Continued

EL PASO COUNTY, TX—CONTINUED

Local identifier	Date	Nickel, water, fltrd, ug/L (01065)	Selen-ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Stront-ium, water, fltrd, ug/L (01080)	Vanad-ium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	C-13 / C-12 ratio, water, unfltrd per mil (82081)	C-14 countng error, water, fltrd, percent modern (49934)	C-14, water, fltrd, percent modern (49933)	Deu-terium/ Protium ratio, water, unfltrd per mil (82082)
JL-49-04-171	08-24-04	.64	<5	<.2	310	--	.8	--	--	--	--
JL-49-04-185	08-24-04	.24	<3	<.2	96.4	--	E.5	--	--	--	--
JL-49-04-210	08-25-04	1.26	<3	<.2	3,530	--	1.3	--	--	--	--
JL-49-04-470	09-03-04	.99	<3	<.2	1,580	--	19.9	--	--	--	--
JL-49-04-471	09-07-04	.66	<3	<.2	768	--	24.8	--	--	--	--
JL-49-04-472	09-08-04	.34	<3	<.2	622	--	8.1	--	--	--	--
JL-49-04-475	08-31-04	.92	<3	<.2	1,470	--	25.2	--	--	--	--
JL-49-04-476	09-01-04	.37	<3	<.2	742	--	16.3	--	--	--	--
JL-49-04-477	09-01-04	E.04	<3	<.2	22.7	--	1.9	--	--	--	--
JL-49-04-481	09-02-04	.37	<3	<.2	412	--	20.5	--	--	--	--
JL-49-04-498	10-28-03	3.65	E.3	<.2	2,860	<5	1.5	-8.43	.120	6.740	-71.90

Local identifier	Date	Gross alpha radioac water, unfltrd Th-230, pCi/L (63018)	Gross beta radioac water unfltrd Cs-137, pCi/L (03519)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Ra-226, water, unfltrd pCi/L (09501)	Ra-228, water, unfltrd pCi/L (11501)	Rn-222 2-sigma water unfltrd pCi/L (76002)	Rn-222, water, unfltrd pCi/L (82303)	Tritium 2-sigma water unfltrd pCi/L (75985)	Tritium water unfltrd pCi/L (07000)	Uranium natural water, fltrd, ug/L (22703)
JL-49-04-171	08-24-04	--	--	--	--	--	--	--	--	--	.26
JL-49-04-185	08-24-04	--	--	--	--	--	--	--	--	--	.18
JL-49-04-210	08-25-04	--	--	--	--	--	--	--	--	--	2.34
JL-49-04-470	09-03-04	--	--	--	--	--	--	--	--	--	7.61
JL-49-04-471	09-07-04	--	--	--	--	--	--	--	--	--	2.85
JL-49-04-472	09-08-04	--	--	--	--	--	--	--	--	--	.10
JL-49-04-475	08-31-04	--	--	--	--	--	--	--	--	--	4.77
JL-49-04-476	09-01-04	--	--	--	--	--	--	--	--	--	.06
JL-49-04-477	09-01-04	--	--	--	--	--	--	--	--	--	.06
JL-49-04-481	09-02-04	--	--	--	--	--	--	--	--	--	<.04
JL-49-04-498	10-28-03	12	14	-10.40	.10	<1	27	470	.58	.1	12.9

Remark codes used in this table:
< -- Less than
> -- Greater than
E -- Estimated value

A
Abiquiu Reservoir near Abiquiu 94
Adair-Luna Ditch near Luna 308
Amole del Norte Channel at Albuquerque 159
Animas River at Farmington 283
Animas River below Aztec 281
Animas River near Cedar Hill 280
Arroyo 19A at Albuquerque 144
Azotea Tunnel at Outlet, near Chama 82
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Bear Arroyo at Jefferson Street at Albuquerque 134
Bernardo Interior Drain near Bernardo 164
Black River above Malaga 249
Black River at Malaga 250
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Bluewater Lake near Bluewater 167
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Canadian River at Logan 49
Canadian River near Sanchez 45
Canadian River near Taylor Springs 41
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Cienega Ditch near Reserve 313
Cieneguilla Creek near Eagle Nest 33
Cimarron River at Springer 40
Cimarron River below Eagle Nest Dam 36
Cimarron River near Cimarron 37
Cochiti Lake near Cochiti Pueblo 116
Conchas Lake at Conchas Dam 46
Costilla Creek above Costilla Dam 56
Costilla Creek near Garcia, CO 62
Costilla Creek below Costilla Dam 60
Costilla Creek near Costilla 61
Costilla Reservoir near Costilla 59
Coyote Creek near Golondrinas 44
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Dark Canyon Draw near White City 243
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E
Eagle Creek below South Fork, near Alto 217
Eagle Nest Lake near Eagle Nest 35
Eagle Tail Ditch near Maxwell 30
East Pleasanton Ditch near Glenwood 323
El Vado Reservoir near Tierra Amarilla 87
Elephant Butte Reservoir at Elephant Butte 186
Embudo Creek at Dixon 78
F
Fish Pond Ditch above Hatchery at Glenwood 322
Fort Sumner Main Canal near Fort Sumner 211
Fort West Ditch near Gila 300
Fourmile Draw near Lakewood 234
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Galisteo Creek below Galisteo Dam 123
Galisteo Reservoir near Cerrillos 122
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Gallinas River near Colonias 199
Gila Farms Ditch near Gila 301
Gila River below Blue Creek, near Virden 306
Gila River near Gila 297
Gila River near Redrock 302
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Hahn Arroyo at Albuquerque 133
Heron Reservoir near Los Ojos 85
Horse Lake Creek above Heron Reservoir, near Los Ojos 84
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Jemez Canyon Reservoir near Bernalillo 130
Jemez River below Jemez Canyon Dam 131
Jemez River near Jemez 128
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Kiehne Ditch near Reserve 315
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Lake Avalon near Carlsbad 241
Lake Maloya near Raton 29
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Little Tesuque Creek at Bishops Lodge near Santa Fe . 107
Los Pinos River, at La Boca, CO 274
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Malpais Spring near Oscura 266
Mariposa Diversion of San Antonio Arroyo at Albuquerque 145
McClure Reservoir near Santa Fe 113
Middle Frisco Ditch near Reserve 317
Mimbres River at Mimbres 263
Mogollon Creek near Cliff 298
Mora River at La Cueva 42
Mora River near Golondrinas 43
Moreno Creek at Eagle Nest 32
N
Nambe Falls Reservoir near Nambe 104
Navajo Reservoir near Archuleta 276
Nichols Reservoir near Santa Fe 115
North Camino Arroyo at Sunset Hills in Albuquerque . 138
North Floodway Channel near Alameda 137
North Side Luna Ditch near Luna 307
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Parsons Ditch near Reserve 316
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Pecos River above Canon del Uta near Colonias 200
Pecos River above Santa Rosa Lake 201

Pecos River at Damsite 3, near Carlsbad 239
Pecos River at Pierce Canyon Crossing, near Malaga . . 256
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Pecos River below Santa Rosa Dam 205
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Pecos River near Anton Chico 197
Pecos River near Artesia 225
Pecos River near Dunlap 213
Pecos River near Lake Arthur 224
Pecos River near Malaga 251
Pecos River near Pecos 196
Pecos River near Puerto de Luna 206
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Conversion Factors

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter (mm)
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter (m)
mile (mi)	1.609×10^{0}	kilometer (km)
	Area	
acre	4.047×10^{3}	square meter (m^2)
	4.047×10^{-1}	square hectometer (hm^2)
	4.047×10^{-3}	square kilometer (km^2)
square mile (mi^2)	2.590×10^{0}	square kilometer (km^2)
	Volume	
gallon (gal)	3.785×10^{0}	liter (L)
	3.785×10^{-3}	cubic meter (m^3)
	3.785×10^{0}	cubic decimeter (dm^3)
million gallons (Mgal)	3.785×10^{3}	cubic meter (m^3)
	3.785×10^{-3}	cubic hectometer (hm^3)
cubic foot (ft^3)	2.832×10^{-2}	cubic meter (m^3)
	2.832×10^{1}	cubic decimeter (dm^3)
cubic-foot-per-second-per-day [(ft^3/s/d]	2.447×10^{3}	cubic meter (m^3)
	2.447×10^{-3}	cubic hectometer (hm^3)
acre-foot (acre-ft)	1.223×10^{3}	cubic meter (m^3)
	1.223×10^{-3}	cubic hectometer (hm^3)
	1.223×10^{-6}	cubic kilometer (km^3)
	Flow rate	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter (L/s)
	2.832×10^{-2}	cubic meter per second (m^3/s)
	2.832×10^{1}	cubic decimeter per second (dm^3/s)
gallon per minute (gal/min)	6.309×10^{-2}	liter per second (L/s)
	6.309×10^{-5}	cubic meter per second (m^3/s)
	6.309×10^{-2}	cubic decimeter per second (dm^3/s)
million gallons per day (Mgal/d)	4.381×10^{-2}	cubic meter per second
	4.381×10^{1}	cubic decimeter per second (dm^3/s)
	Mass	
ton, short (2,000 lb)	9.072×10^{-1}	megagram (Mg) or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$°F = (1.8 \times °C) + 32$$