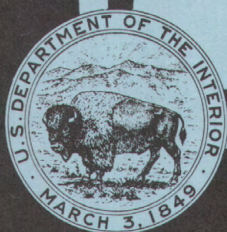
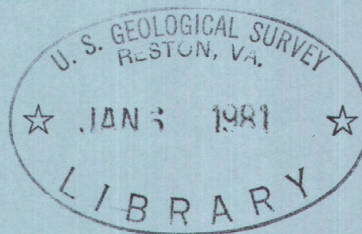


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Water Resources Data for New Mexico

Part 2. Water Quality Records



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

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

1974

JANUARY

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DECEMBER

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1974

Water Resources Data for New Mexico

Part 2. Water Quality Records



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

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

Prepared in cooperation with

New Mexico Office of the State Engineer
New Mexico Interstate Stream Commission
New Mexico Institute of Mining and Technology
Pecos River Commission
Environmental Protection Agency
New Mexico Environmental Improvement Agency
Bureau of Land Management, U.S. Department of
the Interior
Bureau of Reclamation, U.S. Department of the
Interior
Soil Conservation Service, U.S. Department of
Agriculture
Corps of Engineers, U.S. Army

Water resources records, 1974, for New Mexico are
in the following reports of the U.S. Geological
Survey:

1. Water Resources Data for New Mexico
Part 1: Surface Water Records
2. Water Resources Data for New Mexico
Part 2: Water Quality Records

Copies of this report may be obtained from the
District Chief, Water Resources Division
U.S. Geological Survey
P. O. Box 4369
Albuquerque, New Mexico 87106

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WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED

V

*(Letters after station name designate type of data: (c) chemical,
(b) biological, (k) daily specific conductance, (t) daily
water temperature, (s) sediment)*

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WATER RESOURCES DATA FOR NEW MEXICO, 1974

Part 2. Water-Quality Records

INTRODUCTION

Water-resources investigations of the U.S. Geological Survey include the collection of water-quality data on the chemical and physical characteristics of surface- and ground-water supplies of the Nation. The data for the 1974 calendar year for the quality of surface and selected ground waters in New Mexico are presented in this report. These data represent the New Mexico portion of the U.S. Geological Survey's National Water Data System. Data for a few water-quality stations in bordering States are also included. These data were collected by the Water Resources Division of the U.S. Geological Survey under the direction of W. E. Hale, New Mexico District Chief.

New Mexico District personnel directly involved in the collection and organization of the data in this report are listed in alphabetical order: Rosemary S. Ames, mathematical technician; Linda V. Beal, hydrologic technician; Alice J. Brown, hydrologic aid; Bruce M. Delaney, engineering technician; Jack D. Dewey, supervisory hydraulic engineer; Trancito Diaz, engineering technician; Ceceilia D. Foghorn, hydrologic field assistant; David E. Funderburg, engineering technician; Richard L. Lepp, biologist; Miko Lyon, hydrologist; Robert M. McBreen, physical science technician; Joseph E. O'Neill, chemist; Kim Ong, supervisory chemist; Emilo Pargas, engineering aid; Harriet Raymon, hydrologic aid; John A. Sanchez, hydrologic aid; Christian S. Smith, hydrologic aid; Gerald Young, hydrologic aid; Edward D. Villanueva, hydrologic technician. Also, numerous other District personnel and individuals outside the District helped indirectly with this report. Appreciation is expressed to them although their names are not listed for practical reasons.

Water-quality information is presented for chemical quality, aquatic biology, water temperatures, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium adsorption ratio, specific conductance, and pH. Biological data include coliform bacteria, streptococci bacteria, and benthic organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder furnishes information from which daily maximum, minimum, and mean values are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations, total sediment discharges, and for particle size distribution of suspended sediment and bed material.

The Geological Survey, beginning with the 1941 water year, has published an annual series of water-supply papers, "Quality of Surface Waters of the United States," which contain the chemical-quality, temperature, and sediment data of the water. Each volume covered an area whose boundaries coincided with those of certain natural drainage areas. The records for New Mexico are contained in Parts 7, 8, and 9 of the Water-Supply Paper series. (See table 4, p. 19.) These publications are available in most public libraries. Beginning with the 1964 water year, water-quality records for surface and ground water have been released by the Geological Survey on a state boundary basis. This report is one of such reports and is primarily for local and immediate use, and its distribution is limited. The 1964 through 1970 reports were published on a water year basis. The 1971 report was both a calendar year and water year report. The 1972 through 1974 reports are published on a calendar year basis. Records for the 1965 through 1970 reports are or will be published in Geological Survey Water-Supply Papers. The 1971 and subsequent reports may be published on a yet-to-be-established publication series.

Prior to the 1968 water year, data for chemical constituents and concentration of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began to use the metric system; data for chemical constituents and concentrations of suspended sediment are now reported in milligrams per litre (mg/l) or micrograms per litre (ug/l) and water temperatures are given in degrees Celsius (centigrade, °C). In waters with a density of 1.000 grams per millilitre (g/ml), parts per million and milligrams per litre can be considered equal. In waters with a density greater than 1.000 g/ml, values in milligrams per litre may be converted to parts per million by dividing by the density. (See section in this report on "Collection and Examination of Data" and table 5, p. 23 "Factors for converting English units to International System (SI) units" for further information.)

COOPERATION

Data in this report were obtained as part of the Federal program of the U.S. Geological Survey or in cooperation with the following State, Interstate, or Federal Agencies:

New Mexico State Engineer, S. E. Reynolds.
New Mexico Interstate Stream Commission, S. E. Reynolds,
secretary.
New Mexico Institute of Mining and Technology,
Kenneth W. Ford, president.
Pecos River Commission, H. M. Babcock, Federal representative
and chairman, J. B. Walker, commissioner for New Mexico,
Mr. R. B. McGowen, commissioner for Texas.

Environmental Protection Agency
New Mexico Environmental Improvement Agency
Bureau of Land Management, U.S. Department of the Interior
Bureau of Reclamation, U.S. Department of the Interior.
Soil Conservation Service, U.S. Department of Agriculture.
Corps of Engineers, U.S. Army.

DEFINITION OF TERMS

Terms related to water-quality and hydrologic data as used in this report are defined below. See also table for converting English units to International System of units (SI) on page 22.

Acre-foot (AC-FT, ac-ft) is a 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 metres.

Bed material is the shifting portion of fragmented alluvial material of which the streambed is composed.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic metres. It represents a runoff of approximately 0.0372 inches from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds present in water and varies with water compositions, temperature, period of contact, and other factors.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 millilitres is determined by the immediate membrane filter method.

Composite-period is the time interval in which samples collected during that period are combined into a single composite sample. The chemical analysis and other measurements made on the composite sample are assumed to be representative of the entire period. The composite periods in this report vary from one day to one month and are based upon changes in the specific conductances of daily samples and/or changes in daily discharges. In this report "sampling period" and "composite period" are used interchangeably.

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

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

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

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

Discharge-weighted average, (see weighted average).

Drainage area of a stream at a specific location is that area, measured in horizontal plane, enclosed by topographic divides from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point.

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

Gage height is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term, "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those sites where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

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

Milliequivalents per litre (ME/L, me/l) is a unit for expressing chemical equivalent concentrations of ions or constituents in solution. Concentrations in milligrams per litre are converted to milliequivalents per litre by multiplying by the appropriate factors in table 1, page 6. The factors are reciprocals of equivalent weights and are calculated by dividing the valences by the atomic or formula weights. The term "milliequivalents" is a contraction of the more precise term "milligram equivalents."

Milligrams per litre (MG/L, mg/l) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams per litre may be converted to parts per million (ppm) by dividing by the density in grams per millilitre. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per litre of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2, page 6.

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

Particle size is the diameter, in millimetres (mm), of suspended sediment or bed material determined either by sieve or sedimentation methods. Sedimentation methods (pipet, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling) (Guy, 1969). Fall diameter of a particle is the diameter of a quartz sphere that would fall in water at the same rate as the particle under the same settling conditions.

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

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

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis (Guy, 1969).

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

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre

<u>Ion</u>	<u>Multi- ply by</u>	<u>Ion</u>	<u>Multi- ply by</u>
Aluminum (Al+3) *....	0.11119	Iodide (I-1)	0.00788
Ammonia as NH ₄ +1 ....	.05544	Iron (Fe+3) *.....	.05372
Barium (Ba+2) .....	.01456	Lead (Pb+2) *.....	.00965
Bicarbonate (HCO ₃ -1) ..	.01639	Lithium (Li+1) *....	.14411
Bromide (Br-1) .....	.01251	Magnesium (Mg+2) ...	.08226
Calcium (Ca+2) .....	.04990	Manganese (Mn+2) *..	.03640
Carbonate (CO ₃ -2) ...	.03333	Nickel (Ni+2) *.....	.03406
Chloride (Cl-1) .....	.02821	Nitrate (NO ₃ -1) ....	.01613
Chromium (Cr+6) *....	.11539	Nitrite (NO ₂ -1) ....	.02174
Cobalt (Co+2) *.....	.03394	Phosphate (PO ₄ -3) ..	.03159
Copper (Cu+2) *.....	.03148	Potassium (K+1) ....	.02557
Cyanide (CN-1) .....	.03844	Sodium (Na+1) .....	.04350
Fluoride (F-1) .....	.05264	Strontium (Sr+2) *..	.02283
Hydrogen (H+1) .....	.99209	Sulfate (SO ₄ -2) ....	.02082
Hydroxide (OH-1) ....	.05880	Zinc (Zn+2) *.....	.03060

*Concentrations given in micrograms per litre in this report; multiply concentration by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in milligrams per litre to parts per million*
(All values calculated to three significant figures)

<u>Range of concen- tration in 1000 mg/l</u>	<u>Di- vide by</u>	<u>Range of concen- tration in 1000 mg/l</u>	<u>Di- vide by</u>	<u>Range of concen- tration in 1000 mg/l</u>	<u>Di- vide by</u>	<u>Range of concen- tration in 1000 mg/l</u>	<u>Di- vide by</u>
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170 -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

Plankton is the floating (or weakly swimming) animal or plant life in a body of water consisting chiefly of minute plants (as diatoms and blue-green algae) and of minute animals (as protozoan, entomostracans, and various larvae).

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

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

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time (Porterfield, 1972). It is computed by multiplying discharge times concentration in mg/l times 0.0027.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time (Colby and Hubbell, 1961).

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft or 0.09 metre above the bed) expressed as milligrams of dry sediment per litre of water-sediment mixture (mg/l). These concentrations are determined by filtration and (or) evaporation methods (Guy, 1969).

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

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known especially for water used for irrigated farmland.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

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

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimetre at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos per cm at 25°C). This relation is not constant from stream to stream or from aquifer to aquifer, and it may even vary in the same source with changes in the composition of the water. The terms "specific conductance" and "conductivity" are used interchangeably in this report.

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

Thermograph is a temperature sensing device that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" implies the use of a thermograph or other automatic temperature recording device.

Time-weighted average concentration in this report is computed by multiplying the number of days in individual composite periods by the concentration for the corresponding periods and dividing the sum of these products by the total number of days. An annual time-weighted average concentration represents the composition of the water that would be contained in a vessel or reservoir that had received equal volumes of water from the sampled stream for each day of the year. (See composite period, weighted average.)

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

Water year in Geological Survey reports dealing with surface water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1973, is called "the 1973 water year."

Tons per day is the quantity of a substance in a solution or suspension that passes a stream section during a 24-hour day. When tons per day are computed from instantaneous discharges and concentrations, it is assumed that these values are representative of the 24-hour period.

Weighted-average concentration is synonymous to discharge-weighted average concentration in this report. It is computed by multiplying the total discharge for a composite period by the concentration for the corresponding period and dividing the sum of these products by the sum of the discharges. An annual discharge-weighted average concentration represents the composition of the water that would be contained in a reservoir that had received all the water that flowed from the sampled stream during the year. (See composite period, time-weighted average.)

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

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

Irrigation network stations are water-quality stations located at or near certain streamflow gaging stations west of the main stem of the Mississippi River. Data collected at these stations are used to evaluate the chemical quality of surface waters used for irrigation and the changes resulting from the drainage of irrigated lands. Prior to water year 1966, the data for these stations were published in the annual water-supply paper series, "Quality of Surface Water for Irrigation, Western States."

National stream-quality accounting network is an accounting network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of water-quality conditions nationwide on a year-to-year basis and (2) to detect and assess long-term changes in stream quality.

Pesticide program is a network of regularly sampled water-quality stations where additional monthly samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected twice a year, presumably one during high flow conditions and one during low flow conditions, to be analyzed for radiochemical parameters. Radiochemical parameters measured in this program are gross alpha count, gross beta counts, radium isotope 226, and natural uranium in both the dissolved and solid phases of a water-sediment mixture.

Surveillance network stations are surface-water stations selected for water-quality examinations for water-quality control purposes. These stations are usually located at key regulatory streamflow gaging stations or near the statelines. Data for major inorganic constituents, nutrients, dissolved oxygen, and bacteria are collected at all these stations. Data for trace elements, radiochemicals, and pesticides are collected at some of these stations.

DOWNSTREAM ORDER AND STATION NUMBERS

Stations are listed in downstream direction along the mainstream, and stations on tributaries are listed between stations on the mainstream in the order in which those tributaries enter the mainstream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of water-quality stations in the front of this report the rank of tributaries is indicated by indentation, each indentation representing one rank.

As an added means of identification, each water-quality station, gaging station, and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record and continuous-record stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 08313000 which appears just to left of the station name includes the 2-digit part number "08" plus the 6-digit downstream order number "313000." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 07 (Lower Mississippi River basin), Part 08 (Western Gulf of Mexico basin), and Part 09 (Colorado River basin). All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

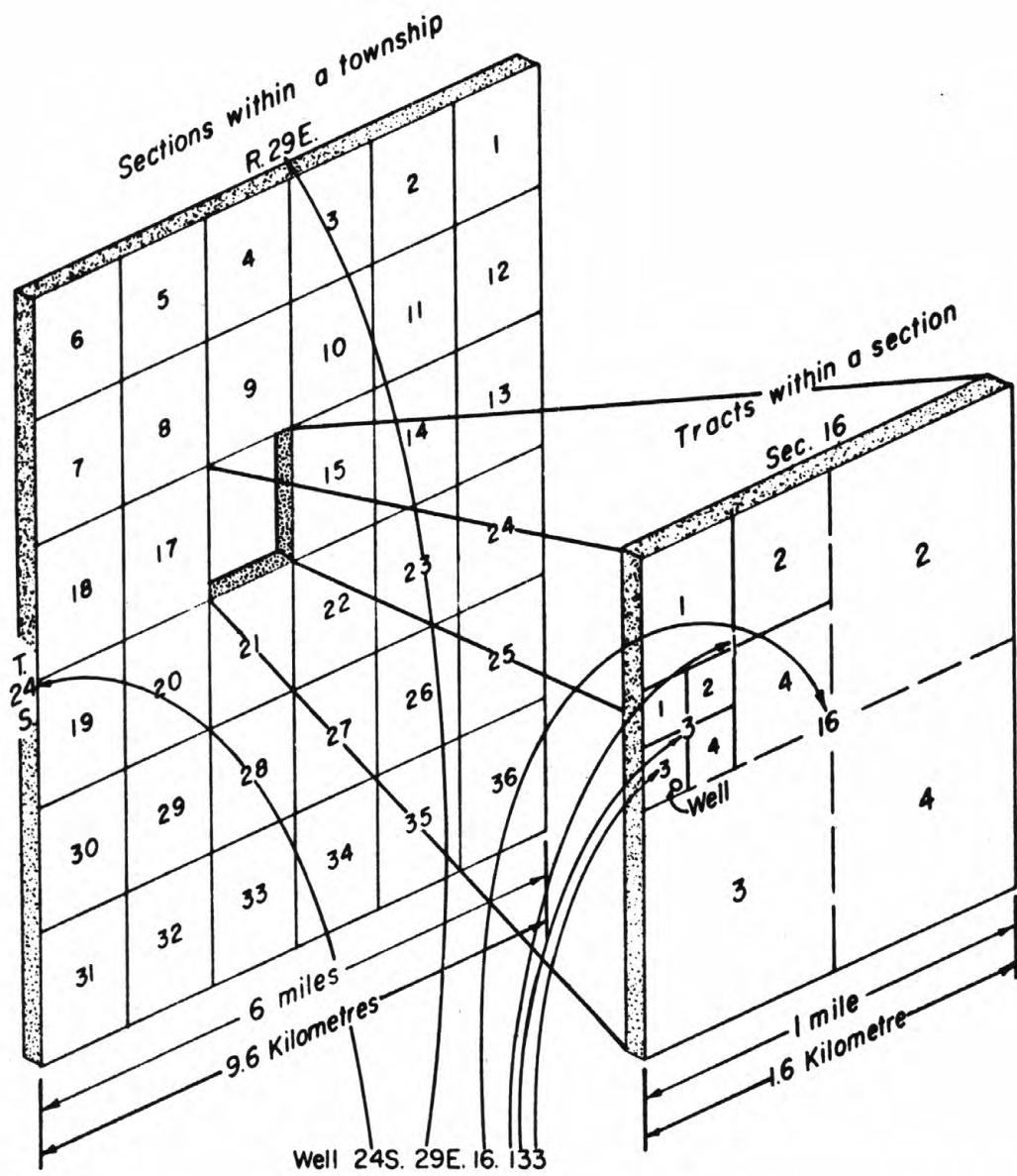


Figure 1.--System of numbering wells and springs in New Mexico.

Miscellaneous surface water sites which have not been assigned eight-digit downstream numbers are identified by using the latitude and longitude locations of the sites as the station numbers. These are 15-digit numbers consisting of the latitude and longitude coordinates in degrees, minutes and seconds plus a 2-digit sequence number. For example, the station number for a miscellaneous surface water site located at north latitude $32^{\circ}11'05''$, west longitude $104^{\circ}17'05''$ and a sequence number assignment of "10" would be 321105104170510.

LOCAL IDENTIFIER AND STATION NUMBER FOR WELLS AND SPRINGS

Wells and springs in this report are identified by local identifiers derived from a system used by the U.S. Geological Survey for numbering wells and springs in New Mexico. The local identifier is based on the system of public land surveys. The local identifier consists of a series of numbers, and letters separated by periods, giving the township, range, section, and tract within a section, in that order, as illustrated on page 11. The letters N or S locate the township north or south of the New Mexico base line. The letters E or W locate the range east or west of the New Mexico principal meridian. A zero in a tract number indicates that the well or spring is centrally positioned or has not been located accurately enough to be placed within a tract or quarter section. Three digits in a tract number can locate a well or spring to the nearest 10 acre tract while six digits will locate a site to the nearest 0.16 acre tract. This numbering system is illustrated in Figure 1, page 11.

Wells and springs in this report are also identified by station numbers which are essentially the latitudes and the longitudes locating the wells or the springs. These station numbers are the principal identifiers of wells and springs in the U.S. Geological Survey's National Water Data System. For example, the well illustrated in Figure 1, page 11 is also located in north latitude $32^{\circ}13'05''$ and west longitude $103^{\circ}59'51''$. It has been assigned a sequence number "01" so its station identification number is 321305103595101.

COLLECTION AND EXAMINATION OF DATA

Water samples for analyses and water-quality field measurements usually are collected at or near points on streams where gaging stations are maintained by the U.S. Geological Survey for measurement of water discharge. Discharge records for streams in New Mexico have been released in the report "Water Resources Data for New Mexico, 1974, Part 1. Surface Water Records." These discharge records are used in conjunction with the computations of the chemical constituents and sediment loads where they are applicable in this report.

Data on the quality of surface water were collected daily at some stations and less frequently at other stations; the locations of surface water stations where quality of water data are collected on a systematic basis are shown on the map on page 13, Figure 2.

The data in this report includes a description of the sampling station and tabulations of the samples analyzed. The description of the sampling station gives the location, drainage area, periods of record for the various water-quality data, extremes of the pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For miscellaneous surface-water sites no descriptive statements are given. For ground-water sampling stations, no descriptive statements are given either. However, the well number, depth of well, date of sampling, and other pertinent data, if available, are given in the tables containing the chemical analyses of ground water.

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory (1971). Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar (1967); Lamar, Goerlitz, and Law (1965); and Goerlitz and Brown (1972). Analyses of radioactive substances in water are described by Barker and others (1963, 1964, and 1965).

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

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 the 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 measurements such as pH and specific conductance, field values are considered to be more representative than laboratory values; however, if a sample changes very little between the time it is collected and the time it is measured in the laboratory, and if the laboratory method is more precise than the field method, the laboratory value may be the better value.

The chemical analyses of composite samples in this report generally represent discharge-weighted composites which range from one-day composites to thirty-day composites. The composite periods are selected on the basis of changes in the specific conductance of individual sample and fluctuations in streamflow.

Ground-water quality at a site generally does not change significantly during a short period. Changes in quality may be defined adequately by sampling as infrequently as seasonally or annually.

Temperature

Water temperatures are measured using a glass stem thermometer at all of the water-quality stations. Water temperatures are taken at the same time water samples are collected. The water temperature records listed under "Records Available" of some station headings are for daily water temperature records. 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 continuously recording thermographs are used, the records consist of maximum, minimum, and mean temperatures for each day. Monthly averages are also shown. To convert temperatures between degrees Celsius (°C) and degrees Fahrenheit (°F), see table 3, on page 16.

Table 3.--Temperature conversion table, degrees
Fahrenheit (°F) and degrees Celsius (°C)*
(Temperature reported to nearest 0.5°C)

°F	°C	°F	°C	°F	°C	°F	°C	°F	°C
32	0.0	50	10.0	68	20.0	86	30.0	104	40.0
33	.5	51	10.5	69	20.5	87	30.5	105	40.5
34	1.0	52	11.0	70	21.0	88	31.0	106	41.0
35	1.5	53	11.5	71	21.5	89	31.5	107	41.5
36	2.0	54	12.0	72	22.0	90	32.0	108	42.0
37	3.0	55	13.0	73	23.0	91	33.0	109	43.0
38	3.5	56	13.5	74	23.5	92	33.5	110	43.5
39	4.0	57	14.0	75	24.0	93	34.0	111	44.0
40	4.5	58	14.5	76	24.5	94	34.5	112	44.5
41	5.0	59	15.0	77	25.0	95	35.0	113	45.0
42	5.5	60	15.5	78	25.5	96	35.5	114	45.5
43	6.0	61	16.0	79	26.0	97	36.0	115	46.0
44	6.5	62	16.5	80	26.5	98	36.5	116	46.5
45	7.0	63	17.0	81	27.0	99	37.0	117	47.0
46	8.0	64	18.0	82	28.0	100	38.0	118	48.0
47	8.5	65	18.5	83	28.5	101	38.5	119	48.5
48	9.0	66	19.0	84	29.0	102	39.0	120	49.0
49	9.5	67	19.5	85	29.5	103	39.5	121	49.5

*C = 5/9 (°F - 32°) or °F = 9/5 (°C) + 32°.

Sediment

Suspended sediment concepts are described by Guy (1970), and the techniques for sample collection, analyses, and measurement of suspended-sediment are described by Guy and Norman (1970). Methods for computation of fluvial sediment discharges are described by Porterfield (1972). Methods for determining particle sizes of suspended sediment by optical techniques are described by Ritter and Helley (1969). Suspended-sediment concentrations are determined from samples collected by using depth-intergrating 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 have been 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 sub-divided 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 loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

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

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

Biology

Generally two types of biological data appear in this report; microbiological data on coliform and streptococci bacteria, and phytoplankton data. Methods for the collection and analysis of aquatic biological and aquatic microbiological samples are described by Slack and others (1973).

Coliform and streptococci bacteria are indicators of animal waste discharges into a stream or aquifer because these organisms are present in the intestinal tract of warm-blooded animals. These organisms are short-lived and relatively harmless, but their presence in a water supply suggest recent contamination and a possibility that dangerous bacteria may also be present.

Phytoplankton or the plant part of the plankton directly affect water quality, notably the dissolved oxygen, ph, concentration of certain solutes, and optical properties. At times the abundance or presence of particular species of phytoplankton result in nuisance conditions.

PARAMETER CODES

The five-digit codes shown in parentheses in the column headings of the tables in this report are parameter codes which uniquely identify the data. These are standard codes used to identify the data stored in the files of the National Water Data Storage and Retrieval System which was implemented and is managed by the Water Resources Division (WRD) of the U.S. Geological Survey. These codes are identical to those used by the Environmental Protection Agency (EPA) in all cases where EPA has assigned a parameter code.

WATER-SUPPLY PAPERS

Table 4, below, shows the annual series of Water-supply Papers that give information on quality of surface waters in New Mexico. Data for the Lower Mississippi River basin are given in Part 7; for the Western Gulf of Mexico basins in Part 8; and for the Colorado River basin in Part 9.

Table 4.--Water-supply paper numbers and parts containing quality of surface water for New Mexico

<u>Report year</u>	<u>Parts 1-14</u>	<u>Parts 7-8</u>	<u>Parts 9-14</u>	<u>Irriga- tion A</u>
1941	942	----	----	----
1942	950	----	----	----
1943	970	----	----	----
1944	1022	----	----	----
1945	1030	----	----	----
1946	1050	----	----	----
1947	1102	----	----	----
1948	----	1133	1133	----
1949	----	1163	1163	----
1950	----	1188	1189	----
1951	----	1199	1200	1264
1952	----	1252	1253	1362
1953	----	1292	1293	1380
1954	----	1352	1353	1430
1955	----	1402	1403	1465
1956	----	1452	1453	1485
1957	----	1522	1523	1524
1958	----	1573	1574	1575
1959	----	1644	1645	1699
1960	----	1744	1745	1746
1961	----	1884	1885	1886
1962	----	1944	1945	1946
1963	----	1950	1951	1952
1964	----	1957	1958	1967
1965	----	1964	1965	1968
1966	----	1994	1995	----
1967	----	2014	2015	----
1968	----	2096, 2097	2098	----
1969	----	2146, 2147	2148	----
1970	----	2156, 2157	B2158	----

A "Quality of Surface Waters for Irrigation, Western States."

B In preparation. These reports contain Parts 7, 8, or 9. Parts 10 to 14 in these or other reports.

SELECTED REFERENCES

- American Public Health Association, and others, 1971, Standard methods for the examination of water and wastewater, 13th ed.: Am Public Health Assoc., New York, 874 p.
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- Barnett, P. R., and Mallory, Jr. E. C., 1971, Determination of minor elements in water by emission spectroscopy: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, Chap. A2, 31 p.
- Brown, E., Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, Chap. A1, 160 p.
- Clarke, F. W., 1924, The composition of the river and lake waters of the United States: U.S. Geol. Survey Prof. Paper 135, 199 p.
- Colby, B. R., 1963, Fluvial sediments--a summary of source, transportation, deposition, and measurement of sediment discharge: U.S. Geol. Survey Bull. 1181-A, 47 p.
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- Goerlitz, D. F., and Brown, Eugene, 1972, Methods for analysis of organic substances in water: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, Chap. A3, 40 p.
- Goerlitz, D. F., and Lamar, W. L., 1967, Determination of phenoxy acid herbicides in water by electron-capture and microcoulometric gas chromatography: U.S. Geol. Survey Water-Supply Paper 1817-C, 21 p.
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- McGuinness, C. L., 1963, The role of ground water in the national water situations: U.S. Geol. Survey-supply Paper 1800, 1,121 p.
- Meinzer, O. E., 1923a, The occurrence of ground water in the United States: U.S. Geol. Survey Water-Supply Paper 489, 321 p.
- 1923b, Outline of ground-water hydrology, with definitions: U.S. Geol. Survey Water-Supply Paper 494, 71 p.
- Ong, K., and Hale, W. E., 1967, Water quality standards, appendix A., Figures and tables summarizing quality of water data at selected sampling stations, New Mexico Water Quality Control Commission, 280 p.
- Porterfield, George, 1972, Computation of fluvial sediment discharges: U.S. Geol. Survey Techniques of Water Resources Inv., book 3, Chap. C3, 66 p.

SELECTED REFERENCES - Concluded

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- Scofield, C. S., 1938, Quality of water of the Rio Grande basin above Fort Quitman, Texas: U.S. Geol. Survey Water-Supply Paper 839, 294 p.
- Slack, K. V., and others, 1973, Methods for collection and analysis of aquatic, biological and microbiological samples: U.S. Geol. Survey Techniques of Water Resources Inv., book 5, chap. A4, 165 p.
- Stabler, H., 1911, Some stream waters of the western United States: U.S. Geol. Survey Water-Supply Paper 274, 188 p.
- U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation, A study of methods used in measurement and analysis of sediment loads in streams. Published by the St. Anthony Falls Hydraulic Laboratory, Minneapolis, Minn.
- 1957, the development and calibration of visual accumulation tube: Rept. 11.
- 1957, Some fundamentals of particle size analysis: Rept. 12.
- 1959, Federal Inter-agency sedimentation instruments and reports: Rept. AA.
- 1961, The single stage samples for suspended sediment: Rept. 13.
- 1963, Determinations of fluvial sediment discharge: Rept. 14.

Table 5.--Factors for converting English units to International System (SI) units

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
<u>Length</u>		
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
yards (yd)	.9144	metres (m)
rods	5.0292	metres (m)
miles (mi)	1.609	kilometres (km)
<u>Area</u>		
acres	4047	square metres (m ²)
	.4047	*hectares (ha)
	.4047	square hectometre (hm ²)
	.004047	square kilometres (km ²)
square miles (mi ²)	2.590	square kilometres (km ²)
<u>Volume</u>		
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm ³)
	3.785x10 ⁻³	cubic metres (m ³)
million gallons (10 ⁶ gal)	3785	cubic metres (m ³)
	3.785x10 ⁻³	cubic hectometres (hm ³)
cubic feet (ft ³)	28.32	cubic decimetres (dm ³)
	.02832	cubic metres (m ³)
cfs-day (ft ³ /s-day)	2447	cubic metres (m ³)
	2.447x10 ⁻³	cubic hectometres (hm ³)
acre-feet (acre-ft)	1233	cubic metres (m ³)
	1.233x10 ⁻³	cubic hectometres (hm ³)
	1.233x10 ⁻⁶	cubic kilometres (km ³)
<u>Flow</u>		
cubic feet per second (ft ³ /s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm ³ /s)
	.02832	cubic metres per second (m ³ /s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm ³ /s)
	6.309x10 ⁻⁵	cubic metres per second (m ³ /s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm ³ /s)
	.04381	cubic metres per second (m ³ /s)
<u>Mass</u>		
ton (short)	.9072	tonne (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p. 15, 1972 edition.

**The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

ARKANSAS RIVER BASIN

07153500 DRY CIMARRON RIVER NEAR GUY, N. MEX.

LOCATION.--Lat 36°59'15", long 103°25'25", in SE¼ sec.21, T.32 N., R.33 E., Union County, at gaging station 1.5 mi (2.4 km) upstream from Baker damsite, 1.7 mi (2.7 km) northwest of Valley, 3.0 mi (4.8 km) upstream from Travesser Creek, 12 mi (19 km) north of Guy, 26 mi (42 km) northwest of Kenton, Okla., and at mile 634.5 (1,020.9 km).

DRAINAGE AREA.--545 mi² (1,412 km²).

PERIOD OF RECORD.--Chemical analyses: September 1969 to January 1974 (discontinued).
Sediment records: April 1963 to June 1968.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NESIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (MG03) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)
------	------	--	---	---	---	---	---	---	--	---

JAN, 09,..	1030	2.9	23	130	90	140	5.6	404	0	590
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DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SURP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHQS) (00095)	PH (UNIT8) (00400)	TEMPER- ATURE (DEG C) (00010)
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JAN, 09,..	29	.6	1.8	1220	700	360	2.3	1690	7.9	.0
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ARKANSAS RIVER BASIN

25

07199000 CANADIAN RIVER NEAR HEBRON, N. MEX.

LOCATION.--Lat 36°47'14", long 104°27'42", Colfax County, in Maxwell Grant, at gaging station on highway bridge on U.S. Highways 64 and 85, 3.1 mi (5.0 km) north of Hebron, 5.0 mi (8.0 km) upstream from Chicorica Creek, and 8.0 mi (12.9 km) south of Raton, and at mile 888.1 (1,429.0 km).

DRAINAGE AREA.--229 mi² (593 km²).

PERIOD OF RECORD.--Chemical analyses: February 1966 to current year.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	DIS- SOLVED SILICA (SIU2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED POT- SIUM (K) (MG/L) (00935)	BICAH- BONATE (HCU3) (MG/L) (00440)	CAR- BONATE (CU3) (MG/L) (00445)	DIS- SOLVED SULFATE (SU4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
JAN, 08,...	1540	.84	9.3	--	86	30	78	2.2	262	0	260	8.5
FEB, 05,...	1010	.40	--	--	--	--	--	--	--	--	--	--
FEB, 27,...	1030	3.4	9.6	--	82	31	87	2.1	183	0	300	10
MAR, 20,...	1100	.19	8.9	--	160	79	170	3.2	273	0	830	15
APR, 17,...	1435	.12	9.7	--	180	88	200	4.5	278	0	930	18
MAY, 13,...	1350	.08	12	--	190	98	240	5.0	266	0	1100	19
JUNE, 18,...	1325	.04	13	--	210	110	280	7.0	242	0	1300	21
JULY, 16,...	1055	.05	9.7	--	240	120	330	8.9	251	0	1500	25
SEP, 26,...	1220	.03	10	--	240	120	290	7.2	247	0	1400	20
OCT, 23,...	0900	.08	10	10	240	110	270	5.7	269	0	1400	19
NOV, 14,...	0935	1.9	8.5	--	91	35	98	2.9	249	0	350	11
DEC, 02,...	1320	3.9	9.0	--	87	31	89	2.8	246	0	300	9.9

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCTI- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN, 08,...	.4	1.1	--	--	608	340	120	1.8	953	8.0	.0	--
FEB, 05,...	--	--	--	--	--	--	--	--	1760	--	.0	--
FEB, 27,...	.1	1.2	--	--	617	330	180	2.1	977	7.7	.0	--
MAR, 20,...	.2	.02	--	--	1400	720	500	2.7	1900	7.6	5.0	--
APR, 17,...	.3	.03	--	--	1570	810	580	3.1	2130	7.8	25.0	--
MAY, 13,...	.3	.08	--	--	1800	880	660	3.5	2350	8.0	24.0	--
JUNE, 18,...	.3	.01	--	--	2060	980	780	3.9	2650	7.9	29.5	--
JULY, 16,...	.4	.02	--	--	2360	1100	890	4.3	2960	7.8	24.0	--
SEP, 26,...	.3	.00	--	--	2210	1100	900	3.8	2860	7.8	19.0	--
OCT, 23,...	.2	.03	.00	2290	2190	1100	880	3.6	2620	7.9	10.0	70
NOV, 14,...	.3	.75	--	--	723	370	170	2.2	1070	7.9	2.0	--
DEC, 02,...	.3	.91	--	--	654	350	150	2.1	991	8.0	.0	--

ARKANSAS RIVER BASIN

07202000 CHICORICA CREEK NEAR HEBRON, N. MEX.

LOCATION.--Lat 36°46'13", long 104°23'45", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.4, T.29 N., R.24 E., Colfax County, at gaging station at highway bridge near east boundary of Maxwell Grant, 300 ft (91 m) downstream from Una de Gato Creek, 4.4 mi (7.1 km) northeast of Hebron, and 9 mi (14.5 km) south of Raton.

DRAINAGE AREA.--381 mi² (987 km²).

PERIOD OF RECORD.--Chemical analyses: February 1966 to current year.
Sediment records: October 1949 to September 1950.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	DIS- SOLVED SILICA (SiO ₂) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (MCO ₃) (MG/L) (00440)	CAR- BONATE (CO ₃) (MG/L) (00445)	DIS- SOLVED SULFATE (SO ₄) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
FEB, 05...	1145	6.5	11	--	140	83	170	4.8	264	0	740	28
MAR, 20...	0930	93	13	--	42	15	21	2.0	149	0	72	3.5
APR, 17...	1340	22	12	20	45	19	28	2.2	158	0	110	3.3
MAY, 13...	1250	4.5	11	--	67	35	54	2.5	217	0	230	5.5
JUNE, 18...	1230	2.8	15	--	120	80	110	6.6	295	0	610	13
AUG, 06...	1315	1.0	11	--	150	74	150	6.3	254	0	710	23
AUG, 27...	1355	.47	11	--	90	43	55	4.5	158	0	360	5.7
SEP, 26...	1115	.82	12	--	160	89	150	5.4	284	0	790	21
OCT, 23...	0915	1.0	9.8	10	180	110	200	4.9	308	0	960	28
NOV, 14...	1230	2.4	8.4	--	180	110	220	6.1	314	0	990	40
DEC, 02...	1100	3.4	11	--	180	110	220	6.7	316	0	960	41

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
FEB, 05...	.4	4.6	--	--	1330	690	470	2.8	1860	7.7	.0	--
MAR, 20...	.2	.45	--	--	244	170	44	.7	411	7.5	2.0	--
APR, 17...	1.3	.19	.01	320	300	190	61	.9	490	8.0	16.0	30
MAY, 13...	.4	.00	--	--	512	310	130	1.3	801	8.3	19.0	--
JUNE, 18...	.4	.01	--	--	1100	630	390	1.9	1560	8.1	25.0	--
AUG, 06...	.4	.51	--	--	1250	680	470	2.5	1720	7.7	25.5	--
AUG, 27...	.4	.74	--	--	651	400	270	1.2	988	8.0	23.0	--
SEP, 26...	.4	.38	--	--	1370	770	540	2.4	1850	8.1	16.5	--
OCT, 23...	.4	.04	.00	1890	1650	900	650	2.9	2230	8.1	11.0	140
NOV, 14...	.4	2.6	--	--	1720	900	640	3.2	2300	7.9	5.5	--
DEC, 02...	.4	7.4	--	--	1720	900	640	3.2	2260	7.4	.5	--

ARKANSAS RIVER BASIN

27

07203000 VERMEJO RIVER NEAR DAWSON, N. MEX.

LOCATION.--Lat 36°40'50", long 104°47'08", Colfax County, in Maxwell Grant, at gaging station, 1.3 mi (2.1 km) north of Dawson, 2.3 mi (3.7 km) upstream from Rail Canyon, and at mile 22.5 (36.2 km).

DRAINAGE AREA.--301 mi² (780 km²).

PERIOD OF RECORD.--Chemical analyses: January 1945 to October 1950, March 1964 to current year.
Sediment records: January 1949 to September 1951.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	DIS- SOLVED SILICA (8102) (MG/L)	DIS- SOLVED IRON (FE) (01046) (UG/L)	DIS- SOLVED MANG- NESE (MN) (01056) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (00915) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (00925) (MG/L)	DIS- SOLVED SODIUM (NA) (00930) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (00935) (MG/L)
JAN. 09...	1225	4.5	9.9	13	<3	61	14	30	2.1
21...	1620	9.9	--	--	--	--	--	--	--
APR. 19...	0800	1.0	--	--	--	--	--	--	--
MAY 30...	0856	.82	9.1	10	15	58	15	34	2.3
JUNE 25...	1834	3.3	15	10	10	47	15	39	3.3
JULY 16...	1255	.98	9.1	10	--	51	14	38	3.2
OCT. 24...	1320	2.5	8.1	20	--	52	15	37	2.4

DATE	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLU- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHOG- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIOS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIOS (SUM OF CONSTI- TUENTS) (MG/L) (70301)
JAN. 09...	202	0	100	5.3	.6	.48	.00	328	325
21...	--	--	--	--	--	--	--	--	--
APR. 19...	--	--	--	--	--	--	--	--	--
MAY 30...	203	0	100	5.9	.5	.07	.01	324	326
JUNE 25...	172	0	110	5.6	.7	.26	.06	320	322
JULY 16...	180	0	110	6.4	.8	.01	.00	328	321
OCT. 24...	194	0	110	6.4	.7	.03	.00	325	327

DATE	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN. 09...	210	44	.9	518	8.2	-2.0	.0	30
21...	--	--	--	425	--	--	4.5	--
APR. 19...	--	--	--	521	--	--	2.5	--
MAY 30...	210	40	1.0	535	8.3	23.5	8.5	18
JUNE 25...	180	38	1.3	522	7.9	29.5	20.5	25
JULY 16...	190	37	1.2	529	8.0	--	26.0	30
OCT. 24...	190	31	1.2	527	8.2	--	14.5	30

ARKANSAS RIVER BASIN

07203000 VERMEJO RIVER NEAR DAWSON, N. MEX.--Continued

TRACE ELEMENT ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	DIS- SOLVED ALUM- INUM (AL) (UG/L) (01106)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BERYL- LIUM (BE) (UG/L) (01010)	DIS- SOLVED BISMUTH (BI) (UG/L) (01015)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHROM- MIUM (CR) (UG/L) (01030)	DIS- SOLVED COBALT (CO) (UG/L) (01035)
JAN. 09...	1225	36	3	92	<2	<7	30	<3	<3	<5
MAY 30...	0856	85	0	100	<2	<7	18	<3	<3	<7
JUNE 25...	1834	25	0	110	<2	<6	25	<3	<3	<4

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED GALLIUM (GA) (UG/L) (01120)	DIS- SOLVED GER- MANIUM (GE) (UG/L) (01125)	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L) (01060)
JAN. 09...	<2	<3	<7	13	<100	<6	3	<3	.0	<2
MAY 30...	<3	<2	<7	10	100	<7	4	15	.0	<2
JUNE 25...	<2	<3	<7	10	<100	<7	6	10	.0	<3

DATE	DIS- SOLVED NICKEL (NI) (UG/L) (01065)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED STRON- TIUM (SR) (UG/L) (01080)	DIS- SOLVED TIN (SN) (UG/L) (01100)	DIS- SOLVED TAN- TANIUM (TI) (UG/L) (01150)	DIS- SOLVED VANA- DIUM (V) (UG/L) (01085)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L) (01160)
JAN. 09...	<6	0	2	570	<7	<3	<3.0	<6	<7
MAY 30...	<7	0	0	600	<7	<5	<3.0	<4	<7
JUNE 25...	<4	0	1	610	<7	<7	<3.0	<3	<10

ARKANSAS RIVER BASIN

29

07211500 CANADIAN RIVER NEAR TAYLOR SPRINGS, N. MEX.
(Surveillance network station)

LOCATION.--Lat 36°17'49", long 104°29'36", in NW¼SE¼ sec.21, T.24 N., R.23 E., Colfax County, at gaging station at head of gorge, 2.0 mi (3.2 km) south of Taylor Springs, 2.3 mi (3.7 km) downstream from Cimarron River, 2.4 mi (3.9 km) upstream from Chico Creek, 7.1 mi (11.4 km) southeast of Springer, and at mile 850.4 (1,368.3 km).

DRAINAGE AREA.--2,850 mi² (7,380 km²).

PERIOD OF RECORD.--Chemical analyses: June 1966 to current year.
Sediment records: August 1969 to current year.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
JAN, 08...	1747	9,4	9,4	0	--	290	150	240	4,8	317
FEB, 07...	1315	10	8,7	10	--	280	150	260	4,3	306
MAR, 13...	1730	18	7,4	0	--	250	160	270	6,1	240
MAY 01...	1645	9,0	7,2	0	--	280	170	270	5,9	207
MAY 29...	1825	2,9	2,9	30	--	310	200	320	6,2	185
JUNE 26...	0943	2,6	5,9	40	--	280	170	280	7,1	175
JULY 30...	1940	9,4	6,3	30	--	170	85	180	9,2	137
AUG, 29...	1419	3,2	7,0	40	--	250	160	270	6,6	183
SEP, 24...	1150	9,4	7,5	1400	0	180	100	190	8,6	191
OCT, 22...	1145	4,9	7,0	50	--	250	130	250	7,3	216
NOV, 21...	1041	5,7	6,6	10	--	260	150	270	5,1	244
DEC, 17...	1000	5,0	9,4	140	80	340	190	320	4,5	316

DATE	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)
JAN, 08...	0	1500	63	,6	,16	,00	,16	,16	,06
FEB, 07...	0	1500	74	,6	,11	,01	,12	,12	,05
MAR, 13...	0	1600	51	,8	,06	,00	,06	,06	,24
MAY 01...	0	1600	62	,6	,02	,00	,03	,02	,03
MAY 29...	0	1900	91	,7	,10	,00	,12	,10	,03
JUNE 26...	0	1700	73	,5	,00	,00	,03	,00	,02
JULY 30...	0	930	58	,5	,02	,00	,02	,02	,04
AUG, 29...	0	1500	79	,6	,01	,00	,01	,01	,12
SEP, 24...	0	1000	45	,5	,06	,00	,10	,06	,04
OCT, 22...	0	1400	71	,5	,00	,00	,00	,00	,04
NOV, 21...	0	1500	66	,4	,01	,00	,08	,01	,06
DEC, 17...	0	1800	82	,5	,19	,00	,29	,19	,03

ARKANSAS RIVER BASIN

07211500 CANADIAN RIVER NEAR TAYLOR SPRINGS, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)
JAN.									
08...	.26	.48	.03	.03	2610	2420	1300	1100	2.9
FEB.									
07...	.30	.47	.04	.02	2620	2430	1300	1100	3.1
MAR.									
13...	.00	.30	.01	.01	2580	2460	1300	1100	3.3
MAY									
01...	.31	.37	.03	.00	2790	2500	1400	1200	3.1
29...	.90	1.0	.03	.00	3280	2920	1600	1400	3.5
JUNE									
26...	.62	.67	.01	.01	2930	2600	1400	1300	3.3
JULY									
30...	2.8	2.8	.96	.00	1700	1510	770	660	2.8
AUG.									
29...	.53	.66	.04	.02	2650	2360	1300	1200	3.3
SEP.									
24...	.54	.68	.06	.03	1900	1630	860	700	2.8
OCT.									
22...	.25	.29	.03	.03	2510	2220	1200	980	3.2
NOV.									
21...	.19	.33	.07	.01	2640	2380	1300	1100	3.3
DEC.									
17...	.22	.54	.04	.04	3270	2900	1600	1300	3.4

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN.									
08..	2840	8.0	2.0	.0	--	10.8	--	8.1	140
FEB.									
07...	2880	8.2	-2.0	.0	--	11.6	--	6.7	160
MAR.									
13...	2910	8.5	16.0	13.5	--	8.3	--	5.0	130
MAY									
01...	3150	8.2	20.0	25.0	--	7.8	--	40	200
29...	3480	8.2	29.5	20.0	--	7.2	--	13	290
JUNE									
26...	3170	8.2	24.0	22.0	--	7.2	--	9.9	240
JULY									
30...	1900	8.3	24.5	26.5	500	6.6	68	8.6	200
AUG.									
29...	2920	8.3	26.0	26.0	30	8.4	20	5.0	250
SEP.									
24...	2220	8.3	21.0	15.5	70	9.0	12	5.8	140
OCT.									
22...	2860	8.4	19.0	12.0	10	9.0	13	4.7	400
NOV.									
21...	2820	8.2	17.5	5.5	9	10.8	18	4.5	170
DEC.									
17...	3490	8.2	-4.5	.0	7	11.7	9	4.0	200

07211500 CANADIAN RIVER NEAR TAYLOR SPRINGS, N. MEX.--Continued

TRACE ELEMENT ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L) (01002)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	DIS- SOLVED COBALT (CO) (UG/L) (01035)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)
SEP. 24...	1150	1	0	140	0	0	0	2	6500
DEC. 17...	1000	1	1	200	0	<10	2	2	610

DATE	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE- NIUM (SE) (UG/L) (01147)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
SEP. 24...	1400	<100	0	0	.0	.1	3	3	30
DEC. 17...	140	<100	1	80	<.1	<.1	2	2	0

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOC- CI (COL- ONIES PER 100 ML) (31679)
JAN. 08...	1747	0	--
FEB. 07...	1315	0	--
MAR. 13...	1730	2	--
MAY 01...	1645	24	--
29...	1825	30	--
JUNE 26...	0943	270	--
JULY 30...	1940	2700	--
AUG. 29...	1419	38	45
SEP. 24...	1150	20	260
OCT. 22...	1145	15	23
NOV. 21...	1041	4	8
DEC. 17...	1000	0	7

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE DISE- MENT (MG/L) (80154)	SUS- PENDE DISE- MENT (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN .002 MM (70337)	SUS. SED. FALL DIAM. % FINER THAN .004 MM (70338)	SUS. SED. FALL DIAM. % FINER THAN .016 MM (70340)	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70331)
JAN. 08...	1747	.0	9.4	68	1.8	--	--	--	--	--	--
FEB. 07...	1315	.0	10	146	3.9	--	--	--	--	--	--
MAR. 13...	1730	13.5	18	579	28	--	--	--	--	--	--
MAY 01...	1645	25.0	9.0	35	.85	--	--	--	--	--	--
29...	1825	20.0	2.9	18	.14	--	--	--	--	--	--
JUNE 26...	0943	22.0	2.6	25	.18	--	--	--	--	--	--
JULY 30...	1940	26.5	9.4	782	20	43	63	81	98	100	--
AUG. 29...	1419	26.0	3.2	7	.06	--	--	--	--	--	--
SEP. 24...	1150	15.5	9.4	137	3.5	--	--	--	--	--	96
OCT. 22...	1145	12.0	4.9	59	.78	--	--	--	--	--	83
NOV. 21...	1041	5.5	5.7	44	.68	--	--	--	--	--	94
DEC. 17...	1000	.0	5.0	61	.82	--	--	--	--	--	47

ARKANSAS RIVER BASIN

07223300 CONCHAS CANAL BELOW CONCHAS DAM, N. MEX.

LOCATION.--Lat 35°22'35", long 104°10'03", San Miguel County, in Pablo Montoya Grant, at gaging station, at upstream end of tunnel transition section, 1.0 mi (1.6 km) downstream from headgates in Conchas Dam, and 21.5 mi (34.6 km) north of Newkirk.

PERIOD OF RECORD.--Chemical analyses: April 1964 to current year.

REMARKS.--No flow during most of each winter.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
JAN, 11...	1050	.68	7.3	80	68	24	49	4.1	170	0	200	14
FEB, 08...	0830	.10	8.5	--	70	28	58	3.8	188	0	240	16
26...	1545	.91	8.0	--	68	25	50	4.2	170	1	220	14
APR, 23...	1420	475	7.1	0	70	26	49	3.8	173	0	220	14
MAY 20...	1600	356	7.1	--	71	27	51	3.8	181	0	220	14
JUNE 14...	1530	324	7.4	--	66	30	52	4.2	185	0	230	14
JULY 03...	1530	3.9	7.6	--	72	30	52	4.3	184	0	230	14
AUG, 03...	1355	293	7.4	--	68	26	59	4.4	179	0	240	14
22...	1535	5.6	8.1	--	75	31	54	4.6	183	0	250	15
SEP, 12...	1310	292	7.0	10	72	31	57	4.1	185	0	240	17
OCT, 17...	1120	.30	4.9	10	68	29	61	4.7	172	0	240	16

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO, PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN, 11...	.5	.07	.04	480	451	270	130	1.3	733	8.2	.0	100
FEB, 08...	.4	.09	--	--	518	290	140	1.5	817	8.1	1.0	--
26...	.4	.09	--	--	475	270	130	1.3	742	8.4	10.5	--
APR, 23...	.3	.04	.03	495	476	280	140	1.3	761	8.2	13.0	70
MAY 20...	.3	.03	--	--	484	290	140	1.3	773	8.3	17.0	--
JUNE 14...	.4	.02	--	--	495	290	140	1.3	783	7.9	20.0	--
JULY 03...	.4	.03	--	--	501	300	150	1.3	793	7.9	22.0	--
AUG, 03...	.4	.03	--	--	508	280	130	1.5	797	8.0	23.0	--
22...	.4	.02	--	--	528	320	160	1.3	805	8.1	23.0	--
SEP, 12...	.6	.11	.01	546	520	310	160	1.4	813	8.0	21.0	70
OCT, 17...	.4	.00	.00	543	509	290	150	1.6	811	8.1	15.0	70

ARKANSAS RIVER BASIN

33

07226800 UTE RESERVOIR NEAR LOGAN, N. MEX.

LOCATION.--Lat 35°20'35", long 103°26'37", in NW¼ sec.21, T.13 N., R.33 E., Quay County, in Ute Reservoir impounded by Ute Dam on the Canadian River which is 2.5 mi (4.0 km) southwest of Logan, 3.5 mi (5.6 km) downstream from Ute Creek, and at mile 673.1 (1,083.0 km).

DRAINAGE AREA.--11,140 mi² (28,853 km²), of which 1,110 mi² (2,875 km²) is noncontributing, and 7,400 mi² (19,000 km²) is controlled by Conchas Dam (total area downstream from Conchas Dam is 3,731 mi² (9663 km²)).

PERIOD OF RECORD.--Chemical analyses: March 1963 to current year.

REMARKS.--Samples for chemical analyses are collected semi-annually at surface, and/or bottom levels of selected sites. Site locations are as follows: Site A, 0.4 mi (0.6 km) upstream from Ute Dam, Site B, 0.6 mi (1.0 km) upstream from Ute Dam; Site C, 1.9 mi (3.1 km) upstream from Ute Dam; Site D, on the Ute Creek arm, 5.7 mi (9.2 km) upstream from Ute Dam; Site E, 3.8 mi (6.1 km) upstream from Ute Dam at confluence of Ute Creek and Canadian River arms; Site F, on the Canadian River arm, 9.1 mi (14.6 km) upstream from Ute Dam; Site G, on the Ute Creek arm, 6.9 mi (11.1 km) upstream from Ute Dam; Site H, on the Canadian River arm, 12.8 mi (20.6 km) upstream from Ute Dam, Site I, on the Canadian River arm, 5.0 mi (8.0 km) upstream from Ute Dam.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

07226510 UTE RESERVOIR AT SITE F (LAT 35°20'21", LONG 103°33'07")

DATE	TIME	DEPTH (FT) (000003)	DEPTH OF RESER- VOIR (FT) (72025)	DIS- SOLVED SILICA (SiO ₂) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED POT- AS- (K) (MG/L) (00935)
APR, 05...	1000	19	24	.5	20	40	21	140	4.8
SEP, 06...	1055	5.0	26	3.0	10	30	21	140	5.4

DATE	BICAR- BONATE (HCO ₃) (MG/L) (00440)	CAR- BONATE (CO ₃) (MG/L) (00445)	DIS- SOLVED SULFATE (SO ₄) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)
APR, 05...	253	4	200	38	.9	.04	.01	589	574
SEP, 06...	235	6	200	41	.8	.03	.03	590	564

DATE	HARD- NESS (CA, MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED OXYGEN (MG/L) (00300)	DIS- SOLVED BORON (B) (UG/L) (01020)
APR, 05...	190	0	4.5	936	8.6	14.0	10.0	9.6	220
SEP, 06...	160	0	4.8	910	8.4	22.5	21.0	6.3	250

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)
SEP, 06...	1055	2	3

ARKANSAS RIVER BASIN

07226800 UTE RESERVOIR NEAR LOGAN, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

07226515 UTE RESERVOIR AT SITE I (LAT 35°21'03", LONG 103°31'00")

DATE	TIME	DEPTH (FT) (00003)	DEPTH OF RESER- VOIR (FT) (72025)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NESIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED TAS- SIUM (K) (MG/L) (00935)
APR. 05...	1100	34	39	1.8	10	38	19	120	4.9
SEP. 06...	1120	5.0	40	2.6	20	35	22	130	5.9

DATE	HICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS DUE AT 180 C (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)
APR. 05...	236	2	180	33	.8	.01	.00	518	516
SEP. 06...	237	5	200	41	.8	.02	.03	591	560

DATE	HARD- NESS (CA, MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED OXYGEN (MG/L) (00300)	DIS- SOLVED BORON (B) (UG/L) (01020)
APR. 05...	170	0	4.0	848	8.6	15.0	10.5	9.8	190
SEP. 06...	180	0	4.2	905	8.4	24.4	20.5	6.3	240

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)
SEP. 06...	1120	0	0

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

07226530 UTE RESERVOIR AT SITE D (LAT 35°22'20", LONG 103°29'47")

DATE	TIME	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NESIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	HICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)
APR. 05...	1130	2.2	20	39	19	120	5.0	246	1	180	34	.9

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	NON- CAR- BONATE HARD- NESS (CA, MG) (MG/L) (00900)	SODIUM AD- SORP- TION RATIO (00902)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)	
APR. 05...	.02	.00	537	523	180	0	3.9	859	8.4	10.0	190

07226800 UTE RESERVOIR NEAR LOGAN, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

07226560 UTE RESERVOIR AT SITE B (LAT 35°20'32", LONG 103°27'16")

DATE	TIME	DEPTH (FT) (00003)	DEPTH OF RESER- VOIR (FT) (72025)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NESIUM (NA) (MG/L) (00925)	DIS- SOLVED SODIUM (MG/L) (00930)	DIS- SOLVED POT- ASSIUM (K) (MG/L) (00935)
APR,										
05...	1300	5.0	52	1.9	--	--	36	18	120	4.8
05...	1330	47	52	2.0	10	<7	35	17	130	4.8
SEP,										
06...	1000	5.0	49	2.6	20	0	36	21	130	5.5
06...	1020	44	49	2.6	20	0	34	21	140	5.4

DATE	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLOR- IDE (CL) (MG/L) (00940)	DIS- SOLVED FLUOR- IDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRATE PLUS NITRITE (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)
APR,										
05...	236	1	180	33	.8	.02	.00	.02	.02	.10
05...	236	1	180	33	.9	.02	.01	.05	.03	.10
SEP,										
06...	248	0	190	40	.8	.02	.00	.02	.02	.04
06...	249	0	200	40	.9	.01	.00	.01	.01	.04

DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE NESS (MG/L) (00902)	SODIUM AD- SURP- TIUM RATIO (00931)
APR,									
05...	.33	.45	.02	.01	520	512	160	0	4.1
05...	.27	.42	.03	.01	520	520	160	0	4.5
SEP,									
06...	.78	.84	.03	.00	572	549	180	0	4.3
06...	.76	.81	.03	.00	592	567	170	0	4.7

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MMOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
APR,									
05...	835	8.6	17.0	11.0	--	9.6	--	3.9	--
05...	834	8.7	17.0	10.0	--	9.4	--	4.3	110
SEP,									
06...	910	8.2	20.5	21.5	9	6.2	10	4.3	230
06...	900	8.0	20.5	21.0	9	5.8	10	9.1	230

ARKANSAS RIVER BASIN

07226800 UTE RESERVOIR NEAR LOGAN, N. MEX.--Continued

TRACE ELEMENT AND RADIOCHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

07226560 UTE RESERVOIR AT SITE B--Continued

DATE	TIME	DIS- SOLVED ALUM- INUM (AL) (UG/L) (01106)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BERYL- LIUM (BE) (UG/L) (01010)	DIS- SOLVED BISMUTH (BI) (UG/L) (01015)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)
------	------	--	--	---	---	--	---	---	--	--

APR.										
05...	1300	--	2	--	--	--	--	--	--	--
05...	1330	47	2	200	<4	<10	110	4	<5	--
SEP.										
06...	1000	--	6	300	--	--	230	0	--	0
06...	1020	--	5	300	--	--	230	0	--	0

DATE	DIS- SOLVED COBALT (CO) (UG/L) (01035)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED GALLIUM (GA) (UG/L) (01120)	DIS- SOLVED GER- MANIUM (GE) (UG/L) (01125)	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)
------	---	---	--	---	---	--	---	--	---	---

APR.										
05...	--	--	--	--	--	<100	--	--	--	.0
05...	<9	<2	<5	<10	10	<100	<10	40	<7	.0
SEP.										
06...	--	1	--	--	20	<100	--	--	0	--
06...	--	1	--	--	20	<100	--	--	0	--

DATE	DIS- SOLVED MOLYB- DENUM (MO) (UG/L) (01060)	DIS- SOLVED NICKEL (NI) (UG/L) (01065)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED STRON- TIUM (SR) (UG/L) (01080)	DIS- SOLVED TIN (SN) (UG/L) (01100)	DIS- SOLVED TI- TANIUM (TI) (UG/L) (01150)	DIS- SOLVED VANA- DIUM (V) (UG/L) (01085)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L) (01160)
------	--	---	---	--	---	--	--	---	---	---

APR.										
05...	--	--	--	2	--	--	--	--	--	--
05...	8	<9	<1	2	1500	<10	<5	15	7	<20
SEP.										
06...	--	--	0	0	--	--	--	--	0	--
06...	--	--	0	0	--	--	--	--	0	--

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L) (80030)	SUS- PENDE GROSS ALPHA AS U-NAT. (UG/L) (80040)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L) (03515)	SUS- PENDE GROSS BETA AS CS-137 (PC/L) (03516)	DIS- SOLVED GROSS BETA AS AS SR90 (PC/L) (80050)	SUS- PENDE GROSS BETA AS AS SR90 (PC/L) (80060)	DIS- SOLVED RA-226 (RADON) METHUD (PC/L) (09511)	DIS- SOLVED NATURAL URANIUM (U) (UG/L) (22703)	DIS- SOLVED URANIUM (U) (UG/L) (80020)
------	---	--	--	---	---	--	--	--	---

APR.									
05...	26	.5	12	2.1	9.6	1.9	.12	6.9	6.9
05...	--	--	--	--	--	--	--	--	--
SEP.									
06...	--	--	--	--	--	--	--	--	--
06...	29	1.4	13	3.7	10	3.2	.18	7.9	--

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL PHYTO- PLANK- TON (CELLS PER ML) (60050)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)
------	------	---	--	--

SEP.				
06...	1000	--	1	2
06...	1020	240	--	--

ARKANSAS RIVER BASIN

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07226800 UTE RESERVOIR NEAR LOGAN, N. MEX.--Continued

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

07226560 UTE RESERVOIR AT SITE B--Continued

PHYTOPLANKTON

DATE	PHYLUM	COMMON NAME	PERCENT OF TOTAL
	.Class ..Order ...Family....Genus		
SEP 6...	CHLOROPHYTA		
	.Chlorophyceae	Green algae	
	....Oocystis (Codominant)		31
	....Pediastrum (Codominant)		31
	....Scenedesmus (Codominant)		15
	....Ankistrodesmus		8
	....Staurostrum		4
	PYRROPHYTA		
	.Dinophyceae	Dinoflagellates	
	....Glenodinium		4
	CHRYSOPHYTA		
	.Bacillariophyceae	Diatoms	
	....Nitzschia		4
	.Chrysophyceae	Golden or yellow-brown algae	
	....Dinobryon		4

PESTICIDE ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL ALDRIN (UG/L) (39330)	TOTAL CHLOR-DANE (UG/L) (39350)	TOTAL DDD (UG/L) (39360)	TOTAL DDE (UG/L) (39365)	TOTAL DDT (UG/L) (39370)	TOTAL DI-AZINON (UG/L) (39570)	TOTAL DI-ELDRIN (UG/L) (39380)	TOTAL ENDRIN (UG/L) (39390)	TOTAL HEPTA-CHLOR (UG/L) (39410)
APR. 05...	1330	.00	.0	.00	.00	.00	--	.00	.00	.00
SEP. 06...	1020	.00	.0	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL HEPTA-CHLOR EPOXIDE (UG/L) (39420)	TOTAL LINDANE (UG/L) (39340)	TOTAL MALA-THION (UG/L) (39530)	TOTAL METHYL PARA-THION (UG/L) (39600)	TOTAL PARA-THION (UG/L) (39540)	TOTAL PCB (UG/L) (39516)	TOTAL TOX-APHENE (UG/L) (39400)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)
APR. 05...	.00	.00	--	--	--	.0	0	.00	.02	.00
SEP. 06...	.00	.00	.00	.00	.00	.0	0	.00	.01	.00

ARKANSAS RIVER BASIN

07227100 REVUELTO CREEK NEAR LOGAN, N. MEX.

LOCATION.--Lat 35°20'28", long 103°23'40", in SW¼ sec.24, T.13 N., R.33 E., Quay County, at gaging station 0.3 mi (0.5 km) upstream from bridge on State Highway 39, 1.9 mi (3.1 km) southeast of Logan, and at mile 2.3 (3.7 km).

DRAINAGE AREA.--786 mi² (2,036 km²).

PERIOD OF RECORD.--Chemical analyses: July 1959 to current year.

Water temperatures: July 1959 to January 1966.

Sediment records: July 1970 to current year.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CP8) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SU4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
JAN, 10...	0900	2.7	9.6	--	89	65	390	4.9	319	0	780	170
FEB, 07...	1050	.60	8.3	--	65	48	590	4.1	282	0	540	580
MAR, 27...	1030	.13	9.6	--	59	50	1100	5.2	399	0	440	1400
APR, 24...	1300	34	8.1	10	80	45	160	7.2	236	0	470	51
MAY, 21...	0920	14	7.8	--	85	53	190	6.7	258	0	500	63
JULY, 29...	1105	20	8.5	--	70	39	170	7.6	199	0	460	50
AUG, 20...	1215	34	9.3	--	70	36	110	6.9	204	0	350	32
SEP, 10...	1455	1.3	9.1	--	63	23	270	6.3	220	0	490	150
OCT, 15...	1615	52	8.5	10	49	19	120	4.5	208	0	240	33
NOV, 13...	0935	6.9	9.0	--	75	45	270	4.6	274	0	550	110
DEC, 12...	1015	4.4	8.0	--	81	56	340	3.8	290	0	700	160

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO, PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MMOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN, 10...	1.1	.48	--	--	1670	490	230	7.7	2500	8.0	.0	--
FEB, 07...	.7	.18	--	--	1980	360	130	14	3320	8.1	.5	--
MAR, 27...	1.2	.01	--	--	3260	350	26	25	5810	8.2	19.0	--
APR, 24...	.7	.15	.04	956	939	390	190	3.5	1420	8.0	20.5	230
MAY, 21...	.8	.03	--	--	1030	430	220	4.0	1600	8.1	12.0	--
JULY, 29...	.6	.63	--	--	907	340	180	4.0	1410	7.7	22.0	--
AUG, 20...	.3	.75	--	--	718	320	150	2.7	1140	7.7	23.0	--
SEP, 10...	1.0	.11	--	--	1120	250	70	7.4	1790	8.1	31.0	--
OCT, 15...	.4	.35	.00	599	579	200	29	3.7	928	8.1	17.0	160
NOV, 13...	.8	.22	--	--	1200	370	150	6.1	1840	8.2	8.0	--
DEC, 12...	.8	.37	--	--	1490	430	190	7.1	2230	8.1	2.0	--

ARKANSAS RIVER BASIN

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07227100 REVUELTO CREEK NEAR LOGAN, N. MEX.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDIM- ENT CHARGE (MG/L) (80154)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN ,002 MM (70337)	SUS. SED. FALL DIAM. % FINER THAN ,004 MM (70338)	SUS. SED. FALL DIAM. % FINER THAN ,016 MM (70340)	SUS. SED. FALL DIAM. % FINER THAN ,062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN ,125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN ,250 MM (70344)
JAN, 10...	0900	.0	2.7	61	.44	--	--	--	--	--	--
FEB, 04...	1540	9.0	3.8	769	7.9	--	--	--	--	--	--
07...	1050	0.5	.60	51	.08	--	--	--	--	--	--
26...	1040	2.5	25	1660	112	--	--	--	--	--	--
MAR, 27...	1030	19.0	.13	22	.01	--	--	--	--	--	--
APR, 24...	1300	20.5	34	514	47	--	--	--	--	--	--
MAY 21...	0920	12.0	14	99	3.7	--	--	--	--	--	--
JUNE 10...	1030	21.0	7.6	108	2.2	--	--	--	--	--	--
JULY 02...	1045	--	3.7	130	1.3	--	--	--	--	--	--
29...	1105	22.0	20	1120	60	--	--	--	--	--	--
AUG, 20...	1215	23.0	34	2400	220	--	--	--	--	--	--
OCT, 15...	1615	17.0	52	1680	236	59	71	81	85	89	100
NOV, 13...	0935	8.0	6.9	130	2.4	--	--	--	--	--	--
DEC, 12...	1015	2.0	4.4	99	1.2	--	--	--	--	--	--

ARKANSAS RIVER BASIN

07227140 CANADIAN RIVER ABOVE NEW MEXICO-TEXAS STATE LINE, N. MEX.
(National stream-quality accounting network station)

LOCATION.--Lat 35°23'35", long 103°02'30", in SW¼ sec.32, T.14 N., R.37 E., Quay County, 0.1 mi (0.2 km) upstream from New Mexico-Texas State line, 5.5 mi (8.8 km) downstream from Rana Canyon, and 14.7 mi (23.7 km) north of Glenrio.

DRAINAGE AREA.--12,616 mi² (32,675 km²).

PERIOD OF RECORD.--Chemical analyses: July 1969 to June 1973, November 1974 to current year.
Sediment records: February 1970 to June 1973, November 1974 to current year.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEDUS DIS- CHANGE (CFS) (00061)	DIS- SOLVED SILICA (SIU2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
NOV. 08...	1515	22	10	10	100	46	940	5.5	294	0	410	1300
DEC. 05...	1235	15	11	20	120	65	1400	6.3	315	0	500	2000

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)
NOV. 08...	.6	.44	.01	.45	.45	.03	.48	.96	.27	.02	2980	2960
DEC. 05...	.6	.34	.00	.38	.34	.05	.17	.60	.05	.02	4120	4260

DATE	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (00340)	TOTAL ORGANIC CARBON (C) (MG/L) (00660)	DIS- SOLVED BORON (B) (UG/L) (01020)
NOV. 08...	440	200	20	5234	8.2	14.0	14.5	200	9.0	20	4.3	330
DEC. 05...	570	310	26	7200	8.4	19.5	11.5	40	10.0	46	3.7	350

TRACE ELEMENT ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L) (01002)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	DIS- SOLVED COBALT (CO) (UG/L) (01035)
------	------	---	--	---	---	--	---

DEC.
05... 1235 2 1 350 1 <10 0

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	TOTAL SELE- NIUM (SE) (UG/L) (01147)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
DEC. 05...	5	20	1	0	0	30

ARKANSAS RIVER BASIN

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07227140 CANADIAN RIVER ABOVE NEW MEXICO-TEXAS STATE LINE, N. MEX.--Continued

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL PHYTO- PLANK- TON (CELLS PER ML) (60050)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCUCCI (COL. ONES PER 100 ML) (31679)
NOV. 08...	1515	460	87	160
DEC. 05...	1235	660	31	19

PHYTOPLANKTON

DATE	PHYLUM .Class ..Order ...Family....Genus.....Species	COMMON NAME	PERCENT OF TOTAL
NOV 8...	CHRYSOPHYTA		
	.Bacillariophyceae	Diatoms	
	....Cyclotella (Codominant)		50
	....Navicula (Codominant)		38
	....Gomphonema		13
DEC 5...	CHRYSOPHYTA		
	.Bacillariophyceae		
	....Navicula (Codominant)		64
	....Nitzschia (Codominant)		36

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDIM- MENT (MG/L) (80154)	SUS- PENDE SEDIM- MENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV. 08...	1515	14.5	22	401	24	95
DEC. 05...	1235	11.5	15	213	8.6	75

RIO GRANDE BASIN

08251500 RIO GRANDE NEAR LOBATOS, COLO.

LOCATION.--Lat 37°04'42", long 105°45'22", in sec.22, T.33 N., R.11 E., Conejos County, at gaging station at highway bridge, 6 mi (10 km) north of Colorado-New Mexico State line, 7 mi (11 km) downstream from Culebra Creek, 10 mi (16 km) east of Lobatos, 14 mi (23 km) east of Antonito, and at mile 1,722.1 (2,770.9 km).

DRAINAGE AREA.--7,700 mi² (19,900 km²), approximately, including 2,940 mi² (7,610 km²) in closed basin in northern part of San Luis Valley, Colo.

PERIOD OF RECORD.--Chemical analyses: September 1969 to current year.

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

RADIOCHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	DIS=	SUS=	DIS=	SUS=	DIS=	SUS=	DIS=	DIS=	DIS=
		SOLVED	PENDE	SOLVED	PENDE	SOLVED	PENDE	SOLVED	SOLVED	SOLVED
		GROSS	GROSS	GROSS	GROSS	GROSS	GROSS	GROSS	NATURAL	URANIUM
		ALPHA	ALPHA	BETA	BETA	BETA	BETA	RA-226	URANIUM	URANIUM
		AS	AS	AS	AS	AS SR90	AS SR90	METHOD	(U)	(U)
		U=NAT.	U=NAT.	CS=137	CS=137	/Y90	/Y90	(PC/L)	(UG/L)	(UG/L)
		(80030)	(80040)	(03515)	(03516)	(80050)	(80060)	(09511)	(22703)	(80020)
JAN.										
10...	1520	<1.7	<.4	5.2	.7	4.1	.6	.02	.5	--
FEB.										
11...	1455	3.8	<.4	3.7	.6	3.0	.5	.04	.6	--
MAR.										
11...	1300	3.7	1.6	4.7	2.6	3.9	2.1	.03	--	.90
APR.										
10...	1145	19	1.2	6.3	1.9	5.3	1.6	.05	2.7	--
MAY										
07...	1500	3.7	1.7	49	1.8	4.0	1.6	.03	1.0	--
JUNE										
10...	1110	7.3	1.7	8.4	2.7	6.9	2.4	.03	2.0	--
JULY										
19...	1100	4.8	1.2	8.6	1.2	7.1	1.0	.04	1.9	--
AUG.										
09...	0945	6.5	4.4	11	6.4	9.2	5.4	.03	2.9	--
SEP.										
05...	1445	8.8	2.3	9.2	2.4	7.6	2.0	.05	3.1	--

08255500 COSTILLA CREEK NEAR COSTILLA, N. MEX.

LOCATION.--Lat 36°58'01", long 105°30'23", Taos County, in Sangre de Cristo Grant, at gaging station, 70 ft (21 m) downstream from bridge on State Highway 196, 0.5 mi (0.8 km) upstream from diversion dam, and 1.6 mi (2.6 km) southeast of Costilla, and at mile 15.9 (25.6 km).

DRAINAGE AREA.--195 mi² (505 km²).

PERIOD OF RECORD.--Chemical analyses: August 1966 to November 1974 (discontinued).

Sediment records: July 1973 to current year.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)
NOV. 19...	1525	7.9	15	24	4.4	6.8	1.3	105	7.3

DATE	TIME	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	NON- CAR- BONATE HARD- NESS (CA, MG) (MG/L) (00900)	SODIUM AD- SORP- TION RATIO (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MH08) (DEG C) (00095)	TEMPER- ATURE (DEG C) (00010)
NOV. 19...	1.4	.7	.02	113	78	0	.3	186	3.0

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE D SED- IMENT DIS- CHARGE (MG/L) (80154)	SUS- PENDE D SED- IMENT DIS- CHARGE (T/DAY) (80155)	SUS- SED, SIEVE DIAM, % FINER THAN .062 MM (70331)	SUS- SED, SIEVE DIAM, % FINER THAN .125 MM (70332)	SUS- SED, SIEVE DIAM, % FINER THAN .250 MM (70333)	SUS- SED, SIEVE DIAM, % FINER THAN .500 MM (70334)
JAN. 02...	1500	.0	9.1	49	1.2	--	--	--	--
JAN. 17...	1200	.0	7.6	6	.12	--	--	--	--
FEB. 11...	1145	.0	6.0	3	.05	--	--	--	--
MAR. 04...	1330	.5	9.1	18	.44	--	--	--	--
APR. 15...	1430	11.5	9.4	4	.10	--	--	--	--
MAY 09...	1330	13.5	65	215	38	--	--	--	--
JUNE 25...	1410	13.0	99	68	24	--	--	--	--
JULY 23...	1425	18.0	62	99	17	--	--	--	--
AUG. 07...	1400	--	38	84	8.6	--	--	--	--
SEP. 18...	1440	12.5	8.7	5	.12	--	--	--	--
NOV. 19...	1525	3.0	7.9	11	.24	33	42	59	100
DEC. 10...	1150	.0	4.5	6	.07	53	67	100	--

RIO GRANDE BASIN

08255500 COSTILLA CREEK NEAR COSTILLA, N. MEX.--Continued

PARTICLE SIZE OF SURFACE BED MATERIAL, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDIM- ENT DIS- CHARGE (MG/L) (80154)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY) (80155)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN 2.00 MM (80163)
APR. 15...	1430	9.4	4	.10	17	56	98	100	--	--
MAY 09...	1330	65	215	38	48	80	91	100	--	--
JUNE 25...	1410	99	88	24	91	99	100	--	--	--
JULY 23...	1425	62	99	17	6	10	38	86	99	100
NOV. 19...	1525	7.9	11	.24	--	--	--	--	--	--
DEC. 10...	1150	4.5	6	.07	--	--	--	--	--	--

DATE	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM (80165)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM (80166)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM (80167)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM (80173)
APR. 15...	--	--	--	--	--	--	--	--	--	--
MAY 09...	--	--	--	--	--	--	--	--	--	--
JUNE 25...	--	--	--	--	--	--	--	--	--	--
JULY 23...	--	--	--	--	--	--	--	--	--	--
NOV. 19...	0	1	2	8	15	23	34	61	94	100
DEC. 10...	1	2	9	30	66	86	93	94	100	--

RIO GRANDE BASIN

45

08266800 RED RIVER AT FISH HATCHERY, NEAR QUESTA, N. MEX.

LOCATION.--Lat 36°41'07", long 105°39'05", SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.3, T.28 N., R.12 E., Taos County, at Fish Hatchery bridge, 3.5 mi (5.6 km) upstream from mouth, and 4 mi (6.4 km) southwest of Questa.

DRAINAGE AREA.--185 mi² (479 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: January 1966 to current year.
Water temperatures: January 1966 to current year.
Sediment records: July 1970 to current year.

EXTREMES:

Current year:

Hardness: Maximum, 560 mg/l Feb. 1-2; minimum, 100 mg/l June 20-30.
Specific conductance: Maximum daily, 1,190 micromhos Apr. 5; minimum daily, 183 micromhos June 21.
Water temperatures: Maximum, 14.5°C July 28; minimum, 2.5°C Jan. 1, Feb. 10.

Period of record:

Hardness: Maximum, 640 mg/l June 30, 1971; minimum, 56 mg/l Apr. 27-30, 1973.
Specific conductance: Maximum daily, 1,320 micromhos Dec. 13, 1972; minimum daily, 172 micromhos May 21, 1968, May 20, 1973.
Water temperatures: Maximum, 20.0°C July 24, 1970; minimum, freezing point Feb. 7, 1966, Dec. 17, 1968, Nov. 18, 26, 1969.

REMARKS.--Mean daily discharge is estimated by subtracting 10 to 15 cfs from the mean daily discharge computed from the record of the station at the mouth of the river. This station converted from daily to monthly operation in October 1974.

CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- CHARGE (CFS) (00060)	DIS- SOLVED SILICA (SiO ₂) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED POT- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO ₃) (MG/L) (00440)	CAR- BONATE (CO ₃) (MG/L) (00445)	DIS- SOLVED SULFATE (SO ₄) (MG/L) (00945)
JAN.										
01-05	38	--	--	130	11	--	--	28	1	--
06-18	40	--	--	79	9.3	--	--	58	0	--
19-21	39	--	--	34	7.4	--	--	61	2	--
22-31	40	--	--	140	12	--	--	72	0	--
FEB.										
01-02	41	--	--	200	15	--	--	71	0	--
03-18	34	--	--	140	12	--	--	64	0	--
19-26	28	--	--	32	7.8	--	--	66	0	--
27-28	36	--	--	110	12	--	--	62	2	--
MAR.										
01-12	37	--	--	140	13	--	--	68	0	--
13-14	30	--	--	57	9.0	--	--	84	0	--
15-21	34	--	--	140	13	--	--	72	0	--
22-24	32	--	--	100	11	--	--	81	0	--
25-27	36	--	--	160	14	--	--	77	0	--
28-31	29	--	--	45	8.1	--	--	88	0	--
APR.										
01-02	30	--	--	42	7.8	--	--	91	0	--
03-19	36	--	--	170	14	--	--	82	0	--
20-30	40	--	--	140	12	--	--	82	0	--
MAY										
01-02	45	--	--	150	12	--	--	79	0	--
03-05	44	--	--	120	11	--	--	79	0	--
06-08	43	--	--	57	8.3	--	--	81	0	--
09-10	48	--	--	96	9.6	--	--	81	1	--
11-14	58	--	--	64	7.9	--	--	64	2	--
15-25	54	--	--	35	6.0	--	--	83	0	--
26-31	60	--	--	73	9.1	--	--	67	1	--
JUNE										
01-05	61	--	--	96	11	--	--	58	0	--
06-07	53	--	--	56	9.2	--	--	74	0	--
08-..	139	--	--	87	9.6	--	--	3	0	--
09-19	86	--	--	44	8.2	--	--	36	0	--
20-30	63	--	--	28	7.8	--	--	64	2	--
CALENDAR YEAR										
WTD, AVG.	--	--	--	92	10	--	--	65	0	--
TIME WTD.										
AVG.	45	--	--	100	10	--	--	68	0	--
TOT, LOAD										
(TONS)	--	--	--	2020	222	--	--	1430	8	--
WATER YEAR										
WTD, AVG.	--	--	--	91	10	--	--	73	0	--
TIME WTD.										
AVG.	44	--	--	97	10	--	--	75	0	--
TOT, LOAD										
(TONS)	--	--	--	2980	328	--	--	2390	8	--

RIO GRANDE BASIN

08266800 RED RIVER AT FISH HATCHERY, NEAR QUESTA, N. MEX.--Continued

CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- SOLVED CHLOR- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUOR- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)
JAN.									
01-05	--	--	.02	--	--	--	--	--	--
06-18	--	--	.09	--	--	--	--	--	--
19-21	--	--	.01	--	--	--	--	--	--
22-31	--	--	.32	--	--	--	--	--	--
FEB.									
01-02	--	--	.65	--	--	--	--	--	--
03-18	--	--	.23	--	--	--	--	--	--
19-26	--	--	.03	--	--	--	--	--	--
27-28	--	--	.08	--	--	--	--	--	--
MAR.									
01-12	--	--	.22	--	--	--	--	--	--
13-14	--	--	.18	--	--	--	--	--	--
15-21	--	--	.26	--	--	--	--	--	--
22-24	--	--	.16	--	--	--	--	--	--
25-27	--	--	.30	--	--	--	--	--	--
28-31	--	--	1.3	--	--	--	--	--	--
APR.									
01-02	--	--	.10	--	--	--	--	--	--
03-19	--	--	.42	--	--	--	--	--	--
20-30	--	--	.40	--	--	--	--	--	--
MAY									
01-02	--	--	.55	--	--	--	--	--	--
03-05	--	--	.25	--	--	--	--	--	--
06-08	--	--	1.3	--	--	--	--	--	--
09-10	--	--	.27	--	--	--	--	--	--
11-14	--	--	.04	--	--	--	--	--	--
15-25	--	--	.03	--	--	--	--	--	--
26-31	--	--	.04	--	--	--	--	--	--
JUNE									
01-05	--	--	.04	--	--	--	--	--	--
06-07	--	--	.00	--	--	--	--	--	--
08...	--	--	.12	--	--	--	--	--	--
09-19	--	--	.00	--	--	--	--	--	--
20-30	--	--	.00	--	--	--	--	--	--
CALENDAR YEAR									
WTD. AVG.	--	--	.19	--	--	--	--	--	--
TIME WTD.	--	--		--	--	--	--	--	--
AVG.	--	--	.22	--	--	--	--	--	--
TOT. LOAD (TONS)	--	--	4.1	--	--	--	--	--	--
WATER YEAR									
WTD. AVG.	--	--	.19	--	--	--	--	--	--
TIME WTD.	--	--		--	--	--	--	--	--
AVG.	--	--	.22	--	--	--	--	--	--
TOT. LOAD (TONS)	--	--	6.3	--	--	--	--	--	--

CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

[illegible]

RIO GRANDE BASIN

08266800 RED RIVER AT FISH HATCHERY, NEAR QUESTA, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (000061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED NE- SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- SIUM (K) (MG/L) (00935)
JAN.									
07...	0940	36	--	--	--	--	--	--	--
10...	1227	42	22	11	100	69	7.7	18	4.0
18...	1000	42	--	--	--	--	--	--	--
MAR.									
27...	0920	37	--	--	--	--	--	--	--
APR.									
17...	0910	36	--	--	--	--	--	--	--
MAY									
02...	1105	44	19	<4	120	100	9.9	19	5.5
30...	1316	64	17	8	70	67	8.2	13	3.3
AUG.									
08...	0930	59	19	--	--	100	11	18	5.9
SEP.									
04...	1405	37	22	--	--	42	7.4	16	2.5
OCT.									
01...	1340	36	20	10	--	68	9.4	21	4.3
NOV.									
06...	1520	39	21	--	--	110	11	21	6.7
18...	0930	37	15	--	--	94	8.9	21	5.4
DEC.									
11...	0940	33	22	--	--	120	11	25	7.0

DATE	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTH- PHOS- PHURUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTIT- UENTS) (MG/L) (70301)
JAN.									
07...	--	--	--	--	--	--	--	--	--
10...	90	0	160	6.5	1.0	.27	.01	339	334
18...	--	--	--	--	--	--	--	--	--
MAR.									
27...	--	--	--	--	--	--	--	--	--
APR.									
17...	--	--	--	--	--	--	--	--	--
MAY									
02...	89	0	240	4.8	1.3	.33	.02	473	446
30...	85	0	150	4.1	.7	.16	.02	307	306
AUG.									
08...	97	0	240	6.3	1.0	.38	--	--	451
SEP.									
04...	106	0	79	5.1	1.0	.55	--	--	230
OCT.									
01...	87	0	170	6.7	1.1	.02	.01	367	343
NOV.									
06...	94	0	270	7.3	1.3	.50	--	--	497
18...	93	0	230	6.1	.5	1.9	--	--	435
DEC.									
11...	93	0	300	7.6	1.4	.72	--	--	543

DATE	HARD- NESS (CA, MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN.									
07...	--	--	--	336	--	--	7.5	--	--
10...	200	130	.5	492	7.7	-7.0	7.5	--	50
18...	--	--	--	650	--	--	9.0	--	--
MAR.									
27...	--	--	--	784	--	--	8.5	--	--
APR.									
17...	--	--	--	818	--	--	9.5	--	--
MAY									
02...	290	220	.5	656	7.9	17.0	12.5	--	18
30...	200	130	.4	457	7.8	25.5	15.5	--	20
AUG.									
08...	300	220	.5	672	7.6	--	14.0	--	--
SEP.									
04...	140	53	.6	360	7.5	--	18.0	1	--
OCT.									
01...	210	140	.6	521	8.0	--	15.5	1	0
NOV.									
06...	320	240	.5	728	7.6	--	11.5	1	--
18...	270	190	.6	640	7.7	--	9.0	2	--
DEC.									
11...	350	270	.6	793	7.1	--	9.0	2	--

08266800 RED RIVER AT FISH HATCHERY, NEAR QUESTA, N. MEX.--Continued

TRACE ELEMENT ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	DIS- SOLVED ALUM- INUM (AL) (UG/L) (01106)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BERYL- LIUM (BE) (UG/L) (01010)	DIS- SOLVED BISMUTH (BI) (UG/L) (01015)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	DIS- SOLVED COBALT (CO) (UG/L) (01035)
JAN. 10...	1227	50	0	27	<2	<6	50	<3	<3	<4
MAY 02...	1105	80	0	31	<2	<8	18	<4	<4	<8
30...	1316	80	0	33	<1	<5	20	<3	<3	<5

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED GALLIUM (GA) (UG/L) (01120)	DIS- SOLVED GER- MANIUM (GE) (UG/L) (01125)	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L) (01060)
JAN. 10...	6	<3	<6	11	--	<6	16	100	.0	220
MAY 02...	2	<3	<8	<4	100	<6	17	120	.0	320
30...	2	<2	<5	8	<100	<5	11	70	.0	150

DATE	DIS- SOLVED NICKEL (NI) (UG/L) (01065)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED STRON- TIUM (SR) (UG/L) (01080)	DIS- SOLVED TIN (SN) (UG/L) (01100)	DIS- SOLVED TAN- TANIUM (TI) (UG/L) (01150)	DIS- SOLVED VANA- DIUM (V) (UG/L) (01085)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L) (01160)
JAN. 10...	5	0	2	540	<6	<3	3.0	10	<6
MAY 02...	5	0	1	970	<8	<4	4.0	6	<12
30...	<5	0	0	440	<5	<4	3.0	6	<5

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	820	1,050	708	341	904	583	467	537	546	---	---	---
2	430	1,100	804	344	809	596	547	537	429	---	---	---
3	1,020	665	804	695	774	590	603	554	443	---	---	---
4	921	849	804	1,010	689	567	531	552	410	---	---	---
5	755	877	813	1,190	634	653	532	609	483	---	---	---
6	382	945	834	854	471	467	504	641	452	---	---	---
7	382	807	827	951	385	350	626	796	635	---	---	---
8	522	671	795	814	365	541	721	787	804	---	---	---
9	600	636	826	1,000	625	345	340	715	821	---	---	---
10	590	736	855	557	558	330	642	625	475	---	---	---
11	530	710	896	980	452	328	704	644	377	---	---	---
12	486	738	834	1,000	421	408	687	669	366	---	---	---
13	644	801	429	931	491	367	557	683	365	---	---	---
14	695	958	438	938	391	307	514	669	366	---	---	---
15	709	986	844	962	286	354	494	740	359	---	---	---
16	396	803	844	972	267	356	523	796	382	---	---	---
17	407	760	759	1,110	259	357	521	843	381	---	---	---
18	439	769	819	975	259	439	549	865	343	---	---	---
19	299	340	808	1,030	257	343	634	768	346	---	---	---
20	298	290	825	652	259	251	697	549	341	---	---	---
21	295	300	967	659	262	183	741	659	358	---	---	---
22	761	306	580	921	270	237	773	698	353	---	---	---
23	955	302	691	970	277	238	801	778	350	---	---	---
24	882	298	662	818	275	227	743	782	342	---	---	---
25	761	312	824	777	269	250	778	768	352	---	---	---
26	656	301	933	721	523	251	770	728	356	---	---	---
27	640	620	997	655	542	264	605	627	352	---	---	---
28	808	791	421	716	472	242	575	624	---	---	---	---
29	739	---	352	884	475	273	548	669	726	---	---	---
30	1,120	---	342	941	425	281	524	710	655	---	---	---
31	868	---	335	---	529	---	517	735	---	---	---	---
MONTH	639	669	731	846	448	366	605	689	447	---	---	---
YEAR	MAX	1,190	MIN	183	MEAN	605						

RIO GRANDE BASIN

08266800 RED RIVER AT FISH HATCHERY, NEAR QUESTA, N. MEX.--Continued

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.5	3.5	5.0	6.0	8.0	9.5	12.0	13.5	12.5	---	---	---
2	5.0	4.0	5.0	7.0	8.0	10.0	12.0	13.5	12.5	---	---	---
3	3.0	4.0	5.0	7.0	8.0	9.5	12.0	14.0	12.5	---	---	---
4	3.0	4.0	5.0	6.0	8.5	9.5	12.0	---	11.5	---	---	---
5	4.0	4.0	3.5	5.5	8.5	10.0	12.0	12.0	11.5	---	---	---
6	4.5	3.5	3.5	7.0	7.5	10.0	12.0	13.5	11.5	---	---	---
7	4.5	3.5	5.5	7.0	7.0	9.0	13.0	13.5	11.5	---	---	---
8	4.5	3.0	4.0	5.0	9.0	7.0	14.0	13.5	11.5	---	---	---
9	5.0	3.0	6.5	7.0	9.5	7.0	13.0	12.0	12.0	---	---	---
10	4.5	2.5	6.0	7.5	9.0	8.0	13.0	---	12.0	---	---	---
11	4.0	3.0	5.0	6.0	8.0	9.0	14.0	13.0	12.0	---	---	---
12	3.5	3.0	4.0	6.5	8.0	9.0	13.0	12.0	12.0	---	---	---
13	4.0	3.0	4.5	6.0	11.0	11.0	14.0	12.0	11.5	---	---	---
14	3.0	4.0	4.5	6.0	8.0	10.5	14.0	11.5	12.0	---	---	---
15	3.0	4.0	5.5	6.0	8.0	10.5	13.0	12.5	12.0	---	---	---
16	3.5	3.0	5.5	6.0	8.0	10.5	14.0	13.0	12.0	---	---	---
17	3.0	3.0	5.5	7.0	8.0	10.5	14.0	13.5	11.0	---	---	---
18	4.0	4.0	5.5	8.5	8.0	10.0	14.0	13.0	11.0	---	---	---
19	4.0	4.0	6.0	8.0	7.0	12.0	14.0	13.5	10.0	---	---	---
20	4.0	5.0	6.0	7.5	7.5	10.5	14.0	13.5	11.0	---	---	---
21	6.0	4.5	5.5	6.0	7.5	10.5	14.0	12.0	12.0	---	---	---
22	3.0	5.0	5.0	7.0	7.0	10.5	14.0	13.0	11.0	---	---	---
23	4.0	5.0	7.0	7.0	9.0	10.5	14.0	13.0	11.0	---	---	---
24	3.0	5.0	5.0	8.5	9.5	12.5	14.0	13.0	11.0	---	---	---
25	3.0	5.0	5.0	9.5	9.0	12.5	14.0	10.5	11.0	---	---	---
26	4.0	4.0	5.5	9.0	9.5	11.5	13.5	13.0	10.5	---	---	---
27	4.0	3.5	6.0	7.0	9.5	11.5	14.0	13.0	9.5	---	---	---
28	3.0	4.5	6.0	6.5	9.0	13.0	14.5	12.0	---	---	---	---
29	3.0	---	6.0	7.0	9.0	13.0	14.0	12.0	9.5	---	---	---
30	3.0	---	7.0	7.0	9.0	13.0	12.5	12.5	9.0	---	---	---
31	3.0	---	7.5	---	10.0	---	13.0	12.5	---	---	---	---
MONTH	3.5	4.0	5.5	7.0	8.5	10.5	13.5	12.5	11.5	---	---	---
YEAR	MAX	14.5	MIN	2.5	MEAN	8.5						

INSTANTANEOUS SUSPENDED SEDIMENT, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE D SEDI- MENT (MG/L) (80154)	SUS- PENDE D SEDI- MENT DIS- CHARGE (T/DAY) (80155)
JAN.					
07...	0940	7.5	36	63	6.1
08...	0930	7.5	42	8	.91
18...	1000	9.0	42	10	1.1
FEB.					
14...	1015	6.5	42	8	.91
MAR.					
06...	1030	8.0	38	10	1.0
27...	0920	8.5	37	4	.40
APR.					
17...	0910	9.5	36	1140	111
17...	1510	9.5	36	34	3.3
MAY					
02...	1105	12.5	44	123	15
09...	0900	11.5	48	356	46
30...	1316	15.5	64	72	12
JUNE					
20...	0930	12.5	78	1030	217
JULY					
09...	0900	--	49	7	.93
AUG.					
08...	0930	14.0	59	6	.96
SEP.					
04...	1405	18.0	37	173	17
OCT.					
01...	1340	15.5	36	23	2.2
NOV.					
06...	1520	11.5	39	7	.74
18...	0930	9.0	37	6	.60
DEC.					
11...	0940	9.0	33	67	6.0

RIO GRANDE BASIN

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08279000 EMBUDO CREEK AT DIXON, N. MEX.

LOCATION (revised).---Lat 36°12'39", long 105°54'47", in NE¼SE¼ sec.19, T.23 N., R.10 E., Rio Arriba County, at gaging station, 750 ft (230 m) upstream from U.S. Highway 64, 0.5 mi (0.8 km) upstream from mouth, 0.5 mi (0.8 km) east of Embudo Post Office, and 1.7 mi (2.7 km) northwest of Dixon. Prior to Sept. 2, 1971, at site 750 ft (230 m) downstream.

DRAINAGE AREA.--305 mi² (790 km²).

PERIOD OF RECORD.--Chemical analyses: August 1970 to current year.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (000061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)
JAN.									
10...	1527	33	13	5	4	62	6.9	8.2	1.3
15...	1605	22	--	--	--	--	--	--	--
31...	1335	25	--	--	--	--	--	--	--
FEB.									
18...	1640	32	13	--	--	58	6.9	9.0	1.4
APR.									
01...	1545	42	12	--	--	52	6.4	6.8	1.2
26...	1005	78	--	--	--	--	--	--	--
MAY									
02...	1338	70	10	15	10	44	5.2	5.6	1.2
16...	1005	88	--	--	--	--	--	--	--
30...	1650	33	14	6	8	63	7.0	8.5	1.5
JUNE									
05...	1125	28	17	--	--	66	7.0	10	1.5
JULY									
23...	1240	7.7	17	--	--	67	7.2	16	2.0
AUG.									
21...	1055	7.4	17	--	--	68	7.3	16	2.1
SEP.									
16...	1000	5.2	18	--	--	18	6.7	25	3.3
OCT.									
15...	1110	27	18	10	--	71	7.8	12	2.0
NOV.									
14...	0920	28	15	--	--	70	8.2	10	1.3
DEC.									
11...	1120	18	16	--	--	69	7.6	10	1.5

DATE	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)
JAN.									
10...	203	0	25	5.9	.2	.19	.00	236	224
15...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
FEB.									
18...	196	0	23	5.9	1.0	.17	--	--	216
APR.									
01...	173	0	23	4.2	.2	.01	--	--	191
26...	--	--	--	--	--	--	--	--	--
MAY									
02...	146	0	21	1.5	.4	.08	.01	162	162
16...	--	--	--	--	--	--	--	--	--
30...	206	0	21	4.5	.2	.08	.01	216	222
JUNE									
05...	229	0	24	5.0	.3	.10	--	--	244
JULY									
23...	231	0	25	9.2	.5	.23	--	--	259
AUG.									
21...	240	0	25	11	.5	.28	--	--	266
SEP.									
16...	99	0	38	6.8	.7	.28	--	--	167
OCT.									
15...	244	0	27	8.9	.3	.11	.01	270	268
NOV.									
14...	240	0	23	5.9	.3	.11	--	--	252
DEC.									
11...	232	0	26	6.4	.3	.40	--	--	253

RIO GRANDE BASIN

08279000 EMBUDO CREEK AT DIXON, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	HARD- NESS (CA, MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHUS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN, 10...	180	17	.3	375	8.2	-6.5	2.5	20
15...	--	--	--	392	--	--	6.5	--
31...	--	--	--	403	--	--	5.5	--
FEB, 18...	170	12	.3	364	8.1	--	6.0	--
APR, 01...	160	14	.2	330	8.1	--	12.5	--
26...	--	--	--	277	--	--	8.5	--
MAY 02...	130	12	.2	276	8.3	24.5	14.5	14
16...	--	--	--	263	--	--	16.0	--
30...	190	17	.3	374	8.3	28.5	19.5	23
JUNE 05...	190	6	.3	410	8.2	--	13.0	--
JULY 23...	200	7	.5	467	8.0	--	24.0	--
AUG, 21...	200	3	.5	444	7.9	--	18.0	--
SEP, 16...	73	0	1.3	265	8.7	25.0	18.0	--
OCT, 15...	210	10	.4	454	8.2	--	13.5	0
NOV, 14...	210	13	.3	426	8.2	--	6.0	--
DEC, 11...	200	10	.3	426	8.1	--	3.0	--

TRACE ELEMENT ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	DIS- SOLVED ALUM- INUM (AL) (UG/L) (01106)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BERYL- LIUM (BE) (UG/L) (01010)	DIS- SOLVED BISMUTH (BI) (UG/L) (01015)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED MNIUM (CO) (UG/L) (01025)	DIS- SOLVED MNIUM (CR) (UG/L) (01030)	DIS- SOLVED COBALT (CO) (UG/L) (01035)
JAN, 10...	1527	10	3	140	<1	<5	20	<3	<3	<4
MAY 02...	1338	20	0	98	0	<4	14	<2	<2	<4
30...	1650	23	0	130	<1	<5	23	<3	<3	<5

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED GALLIUM (GA) (UG/L) (01120)	DIS- SOLVED GER- MANIUM (GE) (UG/L) (01125)	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L) (01060)
JAN, 10...	1	<3	<6	5	--	<5	8	4	.0	<2
MAY 02...	1	<2	<4	15	100	<3	5	10	.0	<2
30...	1	<1	<5	6	<100	<5	10	8	.0	<1

DATE	DIS- SOLVED NICKEL (NI) (UG/L) (01065)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED STRON- TIUM (SR) (UG/L) (01080)	DIS- SOLVED TIN (SN) (UG/L) (01100)	DIS- SOLVED TANIUM (TI) (UG/L) (01150)	DIS- SOLVED VANA- DIUM (V) (UG/L) (01085)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L) (01160)
JAN, 10...	<5	0	1	340	<5	<3	<3.0	7	<6
MAY 02...	<2	0	0	300	<4	<2	<2.0	3	<6
30...	<5	0	0	290	<5	<4	<3.0	3	<5

08286500 RIO CHAMA ABOVE ABIQUIU RESERVOIR, N. MEX.

LOCATION.--Lat 36°19'06", long 106°35'50", Rio Arriba County, at gaging station, 40 ft (12 m) downstream from site of former bridge, 7.7 mi (12.4 km) downstream from Rio Gallina, 9 mi (14 km) northwest of Youngsville, 15.6 mi (25.1 km) upstream from Abiquiu Dam, 30.3 mi (48.8 km) downstream from El Vado Dam, and at mile 47.4 (76.3 km).

DRAINAGE AREA.--1,600 mi² (4,144 km²), of which 100 mi² (260 km²) is probably noncontributing.

PERIOD OF RECORD.--Specific conductance: October 1969 to current year.

Water temperatures: October 1962 to current year.

Sediment records: October 1962 to current year.

EXTREMES:

Current year:

Specific conductance: Maximum daily, 773 micromhos Mar. 18; minimum daily, 227 micromhos June 25, 27, 28.

Water temperatures: Maximum daily, 16.5°C on several days during July to September; minimum, freezing point on many days during winter months.

Sediment concentrations: Maximum daily, 15,900 mg/l Apr. 3; minimum daily, 10 mg/l on many days during January and February.

Sediment discharge: Maximum daily, 12,500 tons (11,300 tonnes) July 5; minimum daily, 1 ton (.91 tonne) Oct. 17-21.

Period of record:

Specific conductance: Maximum daily, 1,320 micromhos Apr. 1, 1973; minimum daily, 153 micromhos May 23, 1970.

Water temperatures: Maximum, 32.0°C Aug. 19, 1964; minimum, freezing point on many days during winter months.

Sediment concentrations: Maximum daily, 73,800 mg/l Dec. 6, 1966; minimum daily, 10 mg/l on many days during 1968-69, 1972, and 1974.

Sediment discharge: Maximum daily, 230,000 tons (208,000 tonnes) Aug. 11, 1967; minimum daily, .81 ton (.73 tonne) July 4, 1972.

REMARKS.--Records furnished by the Corps of Engineers, Albuquerque, District. Suspended sediment particle-size analyses for 1963 to current year determined by method established by the Corps of Engineers.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	486	484	758	311	261	256	364	400	---	---	---
2	---	486	469	752	303	265	233	357	---	---	---	---
3	---	508	478	763	306	255	244	345	---	---	---	---
4	---	508	476	517	306	254	400	377	---	---	---	---
5	---	508	588	426	309	261	345	303	---	---	---	---
6	---	506	593	421	311	258	385	328	---	---	---	---
7	---	506	588	426	308	254	308	351	---	---	---	---
8	---	545	588	401	323	255	323	333	---	---	---	---
9	---	541	594	387	314	260	345	417	---	---	---	---
10	498	543	585	392	316	238	313	323	---	---	---	---
11	---	541	585	385	311	238	357	333	---	---	---	---
12	---	545	583	382	316	241	435	274	---	---	---	---
13	---	517	619	293	291	246	385	267	---	---	---	---
14	488	526	592	299	291	244	364	263	---	---	---	---
15	476	526	744	294	288	244	377	294	---	---	---	---
16	488	526	750	297	294	244	333	274	---	---	---	---
17	488	526	771	297	294	233	364	267	---	---	---	---
18	488	522	773	311	264	244	385	294	---	---	---	---
19	484	522	763	309	268	238	364	317	---	---	---	---
20	488	519	415	313	267	244	400	294	---	---	---	---
21	496	536	423	308	261	232	333	313	---	---	---	---
22	488	513	432	308	274	241	339	270	---	---	---	---
23	496	448	423	306	296	233	339	303	---	---	---	---
24	432	448	435	297	283	233	339	278	---	---	---	---
25	438	444	412	302	291	227	345	303	---	---	---	---
26	435	444	397	306	283	238	333	313	---	---	---	---
27	435	449	393	305	291	227	345	290	---	---	---	---
28	438	486	391	321	262	227	313	333	---	---	---	---
29	513	---	386	333	267	233	333	299	---	---	---	---
30	484	---	730	316	267	233	328	270	---	---	---	575
31	488	---	733	---	261	---	351	323	---	---	---	585
MONTH	---	506	555	384	291	243	342	312	---	---	---	---
YEAR	MAX	773	MIN	227	MEAN	385						

RIO GRANDE BASIN

08286500 RIO CHAMA ABOVE ABIQUIU RESERVOIR, N. MEX.--Continued

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	0.5	0.0	4.5	12.0	10.0	14.0	15.0	16.5	11.0	10.5	2.0
2	---	0.5	1.0	4.0	13.0	11.5	15.0	16.0	15.5	11.0	10.0	2.0
3	---	0.0	0.0	5.0	13.5	10.0	14.5	15.0	16.5	11.5	3.5	2.0
4	---	0.5	0.5	6.5	13.0	11.0	15.5	16.5	15.5	13.5	3.5	2.0
5	---	0.0	0.0	8.0	14.5	11.5	16.0	15.5	15.0	13.5	3.5	3.5
6	---	0.0	1.0	9.0	13.5	15.0	15.0	16.5	15.5	12.0	3.5	3.5
7	---	0.0	1.5	9.5	14.5	14.5	14.5	15.5	15.5	13.0	3.5	4.0
8	---	0.0	0.0	13.0	13.5	15.0	15.5	15.0	15.0	12.0	4.0	3.5
9	---	0.0	1.0	13.5	14.5	15.0	15.0	16.0	15.0	13.5	3.5	2.0
10	---	0.5	0.0	12.0	15.0	15.0	15.5	16.5	15.5	13.0	3.0	3.0
11	---	0.0	1.0	12.0	15.0	15.0	14.5	16.5	14.5	13.0	3.5	3.0
12	---	0.5	0.5	13.5	14.5	13.5	16.0	16.0	13.5	14.0	4.0	3.0
13	---	0.0	1.0	11.5	12.0	15.0	16.5	15.5	15.0	13.5	4.0	2.0
14	0.5	0.0	0.0	13.0	12.0	15.0	15.0	15.0	15.5	10.5	3.5	3.0
15	1.0	0.0	0.5	11.5	13.0	14.0	13.5	15.0	15.0	14.0	3.5	3.0
16	0.0	0.5	0.0	13.5	13.5	8.0	14.5	15.0	15.0	14.0	2.0	3.5
17	0.0	0.0	0.5	11.5	12.0	13.5	13.5	16.0	15.5	13.5	3.5	3.5
18	0.5	0.5	1.0	10.0	12.0	14.5	15.0	15.0	14.5	11.0	3.5	1.0
19	1.0	0.0	2.0	11.0	13.0	13.5	15.0	16.5	16.0	11.0	1.5	0.5
20	0.0	0.0	2.0	11.0	11.5	14.5	14.5	15.0	15.0	10.0	3.0	1.0
21	0.5	0.0	3.5	12.0	13.5	14.5	15.0	16.5	15.5	10.5	0.5	1.0
22	1.0	1.0	4.0	12.0	11.0	14.5	15.5	15.5	15.0	11.0	2.0	1.5
23	0.0	0.5	4.5	11.5	11.5	14.5	15.5	16.0	15.0	10.5	2.0	1.0
24	0.0	0.5	5.0	12.0	12.0	15.0	15.0	16.5	15.5	11.0	2.0	1.5
25	0.5	1.0	4.0	15.0	12.0	14.5	15.0	15.5	11.5	10.5	3.0	0.5
26	0.0	0.0	5.0	15.0	11.0	15.0	16.0	15.0	12.0	11.0	2.0	0.5
27	1.0	0.0	4.5	13.5	11.0	15.0	15.0	16.0	11.5	10.5	2.0	1.0
28	0.5	0.0	4.0	11.0	12.0	14.5	12.0	15.0	11.5	11.0	2.0	1.0
29	1.0	---	3.5	12.0	11.5	15.0	13.5	16.0	11.5	10.5	2.0	0.5
30	0.5	---	1.0	11.0	13.0	15.0	16.0	16.0	11.5	10.0	2.0	1.0
31	0.0	---	4.5	---	11.5	---	15.0	16.0	---	10.0	---	1.5
MONTH	---	0.0	2.0	11.0	13.0	14.0	15.0	15.5	14.5	12.0	3.5	2.0
YEAR	MAX	16.5	MIN	0.0	MEAN	9.0						

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	50	30	4.1	60	10	1.6	63	30	5.1
2	48	30	3.9	60	10	1.6	69	40	7.5
3	46	30	3.7	56	10	1.6	134	20	7.2
4	43	30	3.5	56	10	1.5	147	30	12
5	40	30	3.2	56	10	1.5	97	20	5.2
6	40	30	3.2	54	20	2.9	92	20	5.0
7	41	30	3.3	52	10	1.4	132	20	7.1
8	42	30	3.4	50	10	1.4	128	20	6.9
9	44	30	3.6	50	10	1.4	245	421	286
10	44	30	3.6	52	10	1.4	242	450	294
11	40	20	2.2	52	20	2.8	212	650	372
12	40	20	2.2	52	10	1.4	221	550	328
13	41	20	2.2	54	10	1.5	244	470	310
14	42	20	2.3	56	10	1.5	194	190	100
15	42	20	2.3	54	10	1.5	175	14700	6950
16	42	10	1.1	50	10	1.4	130	14400	5210
17	48	10	1.3	50	10	1.4	94	14200	3600
18	56	10	1.5	53	10	1.4	78	14200	2990
19	54	20	2.9	50	20	2.7	71	14500	2780
20	50	20	2.7	54	10	1.5	69	1820	339
21	58	20	3.1	52	30	4.2	60	1950	316
22	89	20	4.8	50	10	1.4	637	2150	3700
23	106	20	5.7	54	10	1.5	651	2150	3780
24	104	10	2.8	50	10	1.4	656	2200	3900
25	97	10	2.6	52	10	1.4	646	740	1290
26	68	10	1.8	54	10	1.5	580	720	1130
27	58	20	3.1	55	30	4.5	550	710	1050
28	56	10	1.5	57	30	4.6	446	480	578
29	56	10	1.5	--	--	--	443	480	574
30	56	10	1.5	--	--	--	326	12200	10700
31	58	20	3.1	--	--	--	323	12200	10600
TOTAL	1699	--	87.7	1497	--	53.9	8155	--	61233.0

08286500 RIO CHAMA ABOVE ABIQUIU RESERVOIR, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	323	12100	10600	383	580	600	608	250	410
2	167	12300	5550	373	560	564	608	260	427
3	128	15900	5500	398	80	86	603	370	602
4	119	170	55	533	70	101	632	300	512
5	114	80	25	541	40	58	751	310	629
6	114	70	22	545	80	118	756	70	143
7	111	70	21	541	90	131	784	260	550
8	112	60	18	513	150	208	778	120	252
9	112	30	9.1	320	140	121	767	170	352
10	111	30	9.0	323	120	105	767	60	124
11	286	30	23	326	130	114	767	60	124
12	137	40	15	328	150	133	767	40	83
13	112	70	21	382	238	292	767	60	124
14	112	70	21	835	570	1290	795	60	129
15	112	70	21	765	529	1120	894	70	169
16	111	70	21	386	320	334	888	90	216
17	111	80	24	402	210	228	888	100	240
18	112	150	45	541	60	88	882	140	333
19	114	130	40	533	80	115	882	60	143
20	344	130	121	545	130	191	888	70	168
21	358	140	135	613	90	149	888	130	312
22	358	150	145	617	80	133	882	80	191
23	358	70	68	617	190	317	882	70	167
24	367	100	99	613	140	232	882	110	262
25	370	70	70	613	150	248	882	90	214
26	376	70	71	613	130	215	791	160	350
27	383	80	83	613	150	248	402	120	130
28	389	600	630	608	50	82	446	160	193
29	383	230	238	603	40	65	446	150	181
30	386	580	604	603	120	195	443	80	96
31	--	--	--	608	70	115	--	--	--
TOTAL	6690	--	24304.1	16234	--	7996	22416	--	7826

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	439	130	154	740	2500	5000	118	80	25
2	486	563	1150	729	2440	4800	116	80	25
3	876	3800	8990	729	2750	5410	116	80	25
4	882	3830	9120	799	3790	8330	116	80	25
5	876	5270	12500	597	2580	4160	114	80	25
6	876	2970	7020	210	2580	1460	86	60	14
7	912	2920	7400	199	2370	1270	80	60	13
8	876	2820	6670	196	2320	1230	79	60	13
9	731	2710	5350	203	2610	1430	79	60	13
10	249	2740	1840	165	2790	1240	78	60	13
11	239	2990	1930	161	2850	1240	113	80	24
12	237	3660	2340	159	540	232	121	80	26
13	237	3340	2140	707	880	1680	89	60	14
14	237	2490	1590	740	710	1420	83	60	13
15	244	2750	1810	740	1100	2200	84	60	14
16	244	2700	1780	734	410	813	88	60	14
17	237	2710	1750	734	340	674	88	60	14
18	244	2700	1780	734	1060	2100	83	60	13
19	151	2860	1170	734	410	813	82	60	13
20	169	2770	1260	734	450	892	82	60	13
21	169	2650	1210	729	470	925	84	60	14
22	165	2920	1300	729	790	1550	82	60	13
23	165	3910	1740	729	700	1380	82	60	13
24	171	2520	1160	729	640	1260	80	50	11
25	712	2560	4920	729	380	748	80	50	11
26	756	2490	5080	724	510	997	79	50	11
27	745	2750	5530	729	520	1020	79	50	11
28	745	2310	4650	622	446	791	78	50	11
29	856	3144	7160	223	150	90	79	50	11
30	729	2650	5220	134	100	36	79	50	11
31	724	2450	4790	121	90	29	--	--	--
TOTAL	15379	--	120484	16942	--	55220	2697	--	466

RIO GRANDE BASIN

08286500 RIO CHAMA ABOVE ABIQUIU RESERVOIR, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	79	50	11	94	70	18	40	30	3.2
2	79	50	11	70	60	11	41	30	3.3
3	79	50	11	76	60	12	44	30	3.6
4	82	60	13	71	60	12	43	30	3.5
5	80	60	13	67	50	9.0	43	30	3.5
6	83	60	13	64	50	8.6	42	30	3.4
7	83	60	13	64	50	8.6	40	30	3.2
8	83	60	13	63	50	8.5	40	30	3.2
9	82	60	13	67	50	9.0	39	30	3.2
10	101	70	19	68	50	9.2	39	30	3.2
11	242	100	65	65	50	8.8	38	30	3.1
12	78	60	13	95	70	18	38	30	3.1
13	37	50	5.0	112	70	21	190	90	46
14	25	20	1.4	111	70	21	1030	20	56
15	22	20	1.2	66	50	8.9	1000	20	54
16	20	20	1.1	43	30	3.5	1010	20	55
17	19	20	1.0	42	30	3.4	1030	20	56
18	19	20	1.0	42	30	3.4	1060	20	57
19	19	20	1.0	41	30	3.3	1100	20	59
20	19	20	1.0	40	30	3.2	1030	20	56
21	19	20	1.0	40	30	3.2	120	70	23
22	80	60	13	40	30	3.2	48	50	6.5
23	116	70	22	41	30	3.3	43	50	5.8
24	114	70	22	42	30	3.4	38	50	5.1
25	101	60	16	40	30	3.2	35	50	4.7
26	60	50	8.1	40	30	3.2	37	50	5.0
27	42	40	4.5	39	30	3.2	37	50	5.0
28	47	40	5.1	38	30	3.1	37	50	5.0
29	39	30	3.2	38	30	3.1	37	50	5.0
30	148	80	32	38	30	3.1	35	50	4.7
31	171	90	42				35	60	5.7
TOTAL	2266	--	389.6	1757	--	232.4	8439	--	554.0

CAL YR 1974 TOTAL WATER DISCHARGE (CFS-DAYS)
 CAL YR 1974 TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)

104173
 278846.7

WTR YR 1974 TOTAL WATER DISCHARGE (CFS-DAYS)
 WTR YR 1974 TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)

120366
 335186

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PEN- DED SED- IMENT DIS- CHARGE (MG/L) (80154)	SUS- PEN- DED SED- IMENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN .002 MM (70337)	SUS. SED. FALL DIAM. % FINER THAN .004 MM (70338)
MAY 23...	1100	11.7	617	190	317	29	48

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM (70339)	SUS. SED. FALL DIAM. % FINER THAN .016 MM (70340)	SUS. SED. FALL DIAM. % FINER THAN .031 MM (70341)	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN .250 MM (70344)
MAY 23...	65	78	83	94	99	100

08287000 RIO CHAMA BELOW ABIQUIU DAM, N. MEX.

LOCATION.--Lat 36°14'12", long 106°24'59", in SE¼SE¼ sec.8, T.23 N., R.5 E., Rio Arriba County, at gaging station 0.8 mi (1.3 km) downstream from Abiquiu Dam, 5.9 mi (9.5 km) northwest of Abiquiu, and at mile 31.3 (50.4 km).

DRAINAGE AREA.--2,147 mi² (5,561 km²), of which about 100 mi² (260 km²) is probably noncontributing.

PERIOD OF RECORD.--Specific conductance: October 1969 to current year.

Water temperatures: October 1962 to current year.

Sediment records: October 1962 to current year.

EXTREMES:

Current year:

Specific conductance: Maximum daily, 1,030 micromhos Feb. 11; minimum daily, 256 micromhos June 27.

Water temperatures: Maximum 20.0°C on several days during July; minimum, 2.0°C on several days during January and February.

Sediment concentrations: Maximum daily, 160 mg/l May 7, Aug. 2; minimum daily, 0 mg/l Jan. 29, Feb. 27.

Sediment discharge: Maximum daily, 379 tons (344 tonnes) Aug. 2; minimum daily, 0 tons (0 tonnes) Jan. 29, Feb. 27.

Period of record:

Specific conductance: Maximum daily, 1,220 micromhos July 24, 1970; minimum daily, 146 micromhos May 28, 1970.

Water temperatures: Maximum, 28.0°C June 16, 1964; minimum, freezing point on many days during winter months.

Sediment concentrations: Maximum daily, 85,000 mg/l Nov. 29, 1967; minimum daily, 0 mg/l Jan. 29, Feb. 27, 1974.

Sediment discharge: Maximum daily, 214,000 tons (194,000 tonnes) Aug. 1, 1969; minimum daily, 0 tons (0 tonnes) Jan. 29, Feb. 27, 1974.

REMARKS.--Records furnished by the Corps of Engineers. Suspended sediment particle-size analyses for 1963 to current year determined by method established by the Corps of Engineers.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	588	857	420	377	---	282	392	---	---	---	---
2	---	---	---	427	380	---	279	366	---	---	---	---
3	---	---	---	429	368	303	280	---	328	499	---	---
4	357	992	816	444	---	305	270	---	357	510	---	---
5	---	923	833	476	---	296	267	395	345	---	---	---
6	---	839	833	---	345	299	---	370	361	---	---	---
7	---	845	839	---	357	286	---	357	---	517	---	---
8	---	992	833	513	353	---	---	364	---	522	---	---
9	430	---	---	566	355	---	331	385	375	537	---	---
10	448	---	---	550	355	294	294	---	390	541	---	---
11	---	1030	795	529	---	282	279	---	387	526	---	---
12	---	968	805	545	---	288	---	423	387	---	---	---
13	---	923	833	---	370	290	---	417	414	---	---	---
14	---	945	822	---	375	299	---	341	---	---	---	---
15	---	909	769	533	364	---	311	317	---	708	---	---
16	---	---	---	553	357	---	316	303	426	605	---	---
17	472	---	---	538	337	267	351	---	496	642	---	---
18	---	---	719	541	---	274	337	---	496	691	---	---
19	458	833	710	533	---	269	400	283	462	---	---	---
20	---	805	682	---	353	286	---	287	504	---	---	---
21	500	816	682	---	349	274	---	273	---	636	---	---
22	---	---	759	504	337	---	385	265	---	601	---	---
23	---	---	---	467	321	---	385	265	458	597	---	---
24	515	---	---	453	349	273	377	---	476	---	---	---
25	---	845	628	411	---	268	395	---	476	---	---	---
26	---	909	585	379	---	264	397	270	---	---	---	---
27	---	902	490	---	---	256	---	264	---	---	---	---
28	480	851	488	---	319	263	---	273	---	---	---	---
29	444	---	448	385	311	---	301	271	---	---	---	---
30	498	---	---	377	316	---	806	299	---	---	---	---
31	538	---	---	---	306	---	566	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	MAX	1030	MIN	256	MEAN	480						

RIO GRANDE BASIN

08287000 RIO CHAMA BELOW ABIQUIU DAM, N. MEX.--Continued

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	3.0	4.5	9.0	11.0	---	18.0	18.0	---	13.5	8.5	---
2	---	---	---	9.0	11.0	---	18.5	18.0	---	13.5	---	---
3	---	---	---	9.0	12.0	15.0	19.0	---	17.0	13.5	---	---
4	---	3.0	4.5	9.0	---	15.0	19.5	---	17.0	14.0	8.5	---
5	---	3.0	4.5	7.0	---	13.5	20.0	18.0	17.0	---	8.0	---
6	---	3.0	4.5	---	13.0	14.5	20.0	18.0	17.0	---	8.0	---
7	---	2.0	5.0	---	13.0	14.5	---	18.0	---	14.0	7.0	---
8	---	2.0	5.5	8.5	13.0	---	16.5	18.5	---	14.0	7.0	---
9	3.5	---	---	8.0	10.5	---	16.5	18.5	17.0	14.0	---	---
10	---	---	---	8.0	13.5	14.5	16.5	---	16.5	14.5	---	---
11	2.0	3.0	4.5	8.0	---	14.5	16.5	---	16.5	14.0	8.0	---
12	---	3.0	5.5	8.5	---	15.0	---	18.5	18.0	---	8.5	---
13	---	3.0	5.5	---	13.5	15.0	---	18.5	18.5	---	8.0	---
14	---	3.0	5.5	---	14.5	15.5	---	18.5	---	---	8.0	---
15	---	3.0	6.0	8.0	15.0	---	20.0	18.5	---	13.0	8.0	---
16	---	---	---	7.0	14.5	---	19.0	19.0	18.0	12.0	---	---
17	2.0	---	---	8.0	15.0	16.0	20.0	---	18.0	12.0	---	---
18	---	---	6.0	8.0	---	16.0	20.0	---	16.5	13.5	6.5	---
19	2.0	2.0	6.0	8.5	---	16.5	20.0	18.5	16.0	---	6.5	---
20	---	2.0	7.0	---	14.5	16.0	---	18.5	16.0	---	6.5	---
21	3.0	4.0	8.0	---	14.5	16.0	---	18.5	---	13.5	6.0	---
22	---	---	7.0	10.0	14.5	---	20.0	18.5	---	13.0	6.5	---
23	---	---	---	10.0	13.0	---	20.0	18.0	16.5	13.5	---	---
24	3.0	---	---	10.5	14.5	16.0	20.0	---	16.5	13.0	---	---
25	---	3.5	7.0	11.0	---	16.5	20.0	---	15.5	12.0	---	---
26	---	3.5	7.0	11.0	---	16.5	20.0	17.0	15.5	---	---	---
27	---	3.5	7.0	---	---	16.5	---	17.0	15.5	---	---	---
28	3.0	3.5	7.0	---	15.0	16.5	---	18.0	---	---	---	---
29	3.0	---	7.0	11.0	15.0	---	20.0	18.0	---	12.0	---	---
30	2.0	---	---	11.0	15.0	---	20.0	17.0	13.0	11.5	---	---
31	2.0	---	---	---	15.5	---	18.5	---	---	10.5	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	MAX	20.0	MIN	2.0	MEAN	12.0						

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1110	20	60	709	10	19	92	40	9.9
2	972	20	52	289	10	7.8	92	30	7.5
3	809	20	44	47	10	1.3	92	30	7.5
4	722	20	39	81	10	2.2	93	30	7.5
5	721	20	39	106	20	5.7	92	40	9.9
6	716	20	39	105	10	2.8	92	30	7.5
7	715	20	39	90	10	2.4	93	30	7.5
8	713	20	39	64	20	3.5	93	30	7.5
9	709	20	38	64	10	1.7	92	30	7.5
10	708	20	38	64	10	1.7	93	30	7.5
11	699	10	19	88	10	2.4	94	30	7.6
12	697	10	19	102	50	14	146	40	16
13	693	10	19	102	20	5.5	212	40	23
14	691	10	19	102	20	5.5	282	40	30
15	685	10	18	86	20	4.6	434	40	47
16	681	10	18	75	30	6.1	469	40	51
17	679	20	37	75	30	6.1	228	40	25
18	674	20	36	76	30	6.2	92	30	7.5
19	668	20	36	76	30	6.2	157	30	13
20	662	20	36	88	20	4.8	272	40	29
21	660	20	36	95	30	7.7	316	40	34
22	686	20	37	83	20	4.5	386	40	42
23	721	20	39	73	20	3.9	444	40	48
24	715	30	58	71	20	3.8	446	40	48
25	705	30	57	72	20	3.9	464	40	50
26	693	30	56	73	20	3.9	523	40	56
27	689	30	56	84	0	0	541	30	44
28	679	20	37	91	40	9.8	532	30	43
29	669	0	0	---	---	---	535	50	72
30	560	20	30	---	---	---	532	50	72
31	718	10	19	---	---	---	525	50	71
TOTAL	22216	--	1109	3131	--	147.0	8554	--	908.9

08287000 RIO CHAMA BELOW ABIQUIU DAM, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	521	70	98	449	120	145	634	100	171
2	510	70	96	449	120	145	615	100	166
3	472	80	102	416	110	124	605	90	147
4	261	70	49	529	110	157	605	100	163
5	112	60	18	617	110	183	753	110	224
6	133	50	18	644	140	243	769	120	249
7	133	50	18	606	160	262	726	120	235
8	133	50	18	603	90	147	803	120	260
9	132	50	18	380	90	92	763	110	227
10	157	50	21	365	90	89	765	100	207
11	256	40	28	397	90	96	766	90	186
12	233	50	31	345	90	84	746	80	161
13	138	40	15	368	90	89	746	90	181
14	94	40	10	748	130	263	746	100	201
15	104	40	11	832	150	337	828	100	224
16	123	40	13	492	140	186	904	110	268
17	132	40	14	400	140	151	929	120	301
18	170	50	23	535	140	202	907	120	294
19	172	60	28	552	140	209	870	150	352
20	282	70	53	581	140	220	876	120	284
21	433	70	82	630	110	187	876	120	284
22	427	70	81	617	110	183	876	110	260
23	391	70	74	631	100	170	876	100	237
24	420	50	57	636	100	172	872	90	212
25	441	70	83	635	100	171	861	130	302
26	446	100	120	616	100	166	770	110	229
27	457	100	123	620	100	167	462	90	112
28	454	110	135	635	100	171	436	90	106
29	456	120	148	602	100	163	466	90	113
30	432	110	128	593	110	176	466	70	88
31	--	--	--	602	100	163	--	--	--
TOTAL	8625	--	1713	17125	--	5313	22317	--	6444
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	438	60	71	748	140	283	136	80	29
2	444	60	72	878	160	379	122	70	23
3	781	60	127	814	150	330	144	70	27
4	908	70	172	843	150	341	140	80	30
5	879	80	190	656	110	195	127	60	21
6	870	80	188	293	90	71	115	50	16
7	897	80	194	242	80	52	90	50	12
8	922	80	199	224	70	42	89	50	12
9	628	90	153	211	50	28	96	40	10
10	402	110	119	212	70	40	87	40	9.4
11	293	90	71	173	70	33	93	50	13
12	229	80	49	167	80	36	123	50	17
13	236	70	45	555	120	180	119	60	19
14	235	60	38	803	140	304	93	60	15
15	235	60	38	801	120	260	88	60	14
16	235	70	44	780	110	232	132	90	32
17	237	90	58	766	100	207	117	70	22
18	243	80	52	769	100	208	100	70	19
19	280	90	68	780	90	190	102	60	17
20	205	90	50	781	110	232	98	80	21
21	155	90	38	761	110	226	95	70	18
22	157	100	42	752	90	183	96	70	18
23	159	80	34	753	110	224	95	40	10
24	177	60	29	750	100	203	90	60	15
25	557	100	150	753	90	183	95	40	10
26	857	130	301	744	80	161	94	20	5.1
27	838	130	294	741	80	160	91	20	4.9
28	750	100	203	722	80	156	89	20	4.8
29	817	110	243	349	80	75	87	20	4.7
30	957	110	284	162	80	35	89	20	4.8
31	765	60	124	198	80	43	--	--	--
TOTAL	15786	--	3740	18181	--	5292	3132	--	473.7

RIO GRANDE BASIN

08287000 RIO CHAMA BELOW ABIQUIU DAM, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	89	50	12	160	20	8.6	44	20	2.4
2	93	40	10	114	20	6.2	38	20	2.1
3	95	40	10	109	20	5.9	41	20	2.2
4	92	40	9.9	108	20	5.8	48	20	2.6
5	89	40	9.6	70	20	3.8	80	20	4.3
6	93	40	10	70	20	3.8	67	20	3.6
7	111	50	15	68	20	3.7	49	20	2.6
8	87	50	12	75	20	4.1	49	20	2.6
9	57	50	7.7	81	20	4.4	47	20	2.5
10	85	40	9.2	86	20	4.6	33	20	1.8
11	257	30	21	85	20	4.6	29	20	1.6
12	216	30	17	86	20	4.6	44	20	2.4
13	67	30	5.4	126	20	6.8	44	20	2.4
14	17	60	2.8	119	20	6.4	45	20	2.4
15	37	60	6.0	102	20	5.5	47	20	2.5
16	39	40	4.2	53	20	2.9	48	20	2.6
17	30	50	4.1	41	20	2.2	49	20	2.6
18	24	50	3.2	44	20	2.4	50	20	2.7
19	17	40	1.8	49	20	2.6	73	20	3.9
20	27	40	2.9	52	20	2.8	76	20	4.1
21	43	50	5.8	52	20	2.8	41	20	2.2
22	63	100	17	52	20	2.8	41	20	2.2
23	114	20	6.2	52	20	2.8	41	20	2.2
24	138	20	7.5	52	20	2.8	32	20	1.7
25	116	20	6.3	49	20	2.6	27	20	1.5
26	91	20	4.9	44	20	2.4	27	20	1.5
27	79	20	4.3	44	20	2.4	27	20	1.5
28	56	20	3.0	44	20	2.4	27	20	1.5
29	59	20	3.2	45	20	2.4	27	20	1.5
30	128	20	6.9	47	20	2.5	31	20	1.7
31	180	20	9.7	--	--	--	38	20	2.1
TOTAL	2689	--	248.6	2179	--	117.6	1360	--	73.5

CAL YR 1974	TOTAL WATER DISCHARGE (CFS-DAYS)
CAL YR 1974	TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)

125295
25580.3

WTR YR 1974	TOTAL WATER DISCHARGE (CFS-DAYS)
WTR YR 1974	TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)

167079
28170.6

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDI- MENT (MG/L) (80154)	SUS- PENDE SEDI- MENT CHARGE (T/DAY) (80155)	SUS, SED, FALL DIAM, % FINER THAN (70337)	SUS, SED, FALL DIAM, % FINER THAN (70338)	SUS, SED, FALL DIAM, % FINER THAN (70339)
MAY 07...	0800	12.8	606	160	262	56	74	85
OCT, 08...	0800	13.9	87	50	12	75	81	86
22...	0800	12.8	63	100	17	84	90	91

DATE	SUS, SED, FALL DIAM, % FINER THAN (70340)	SUS, SED, FALL DIAM, % FINER THAN (70341)	SUS, SED, FALL DIAM, % FINER THAN (70342)	SUS, SED, FALL DIAM, % FINER THAN (70343)	SUS, SED, FALL DIAM, % FINER THAN (70344)	SUS, SED, FALL DIAM, % FINER THAN (70345)	SUS, SED, FALL DIAM, % FINER THAN (70346)
	MAY 07...	92	94	95	96	98	99	100
OCT, 08...	92	94	95	96	99	100	--
22...	91	92	94	96	98	100	--

08290000 RIO CHAMA NEAR CHAMITA, N. MEX.

LOCATION.--Lat 36°04'26", long 106°06'40", in NE¼NE¼ sec.8, T.21 N., R.8 E., Rio Arriba County, San Juan Pueblo Grant at gaging station, at bridge on U.S. Highway 285, 0.5 mi (0.8 km) west of Chamita, 2.5 mi (4.0 km) northwest of San Juan Pueblo, and at mile 2.8 (4.5 km).

DRAINAGE AREA.--3,144 mi² (8,143 km²) of which about 100 mi² (260 km²) is probably noncontributing.

PERIOD OF RECORD.--Chemical analyses: April 1963 to current year.

Water temperatures: October 1950 to current year.

Sediment records: October 1947 to current year.

EXTREMES:

Current year:

Specific conductance: Maximum daily, 851 micromhos Feb. 14, Mar. 3; minimum daily, 268 micromhos June 23.

Water temperatures: Maximum, 36.0°C Aug. 19, 1974; minimum, 1.5°C Dec. 29-31.

Sediment concentrations: Maximum daily, 6,950 mg/l July 30; minimum daily, 10 mg/l Jan. 21, 24.

Sediment discharge: Maximum daily, 15,300 tons (13,900 tonnes) July 30; minimum daily, 3.5 tons (3.2 tonnes) Oct. 20.

Period of record:

Specific conductance (1969-73): Maximum daily, 1,010 micromhos July 25, 1970; minimum daily, 175 micromhos May 12, 14, 1973.

Water temperatures: Maximum, 36.0°C Aug. 19, 1974; minimum, freezing point on many days during winter months.

Sediment concentrations: Maximum daily, 62,800 mg/l July 27, 1971; minimum daily, no flow on several days in August 1950, 1951, September 1953, and July 1955.

Sediment discharge: Maximum daily, 340,000 tons (308,000 tonnes) Aug. 9, 1967; minimum daily, 0 tons (0 tonnes) on several days in August 1950 and 1951, September 1953, and July 1955.

REMARKS.--Daily specific conductance, daily temperature, and suspended sediment records furnished by Corps of Engineers, Albuquerque District. Suspended sediment particle-size analyses for 1963 to current year determined by method established by the Corps of Engineers.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)
JAN.									
09...	1115	722	--	--	--	--	--	--	--
10...	1647	724	16	5	<3	49	11	23	2.7
30...	1730	706	--	--	--	--	--	--	--
FEB.									
21...	1450	127	18	--	--	81	23	53	3.8
APR.									
04...	1515	513	16	--	--	51	12	24	2.6
26...	1530	710	--	--	--	--	--	--	--
MAY									
02...	1552	570	15	16	4	37	7.9	14	2.5
15...	1110	902	--	--	--	--	--	--	--
31...	1057	520	14	40	4	38	7.4	14	2.0
JUNE									
05...	1045	575	16	--	--	35	6.9	13	2.2
JULY									
25...	1000	130	14	--	--	49	8.2	27	3.2
AUG.									
20...	1050	694	15	--	--	34	5.7	11	2.2
SEP.									
16...	1540	90	17	--	--	55	12	28	3.3
OCT.									
16...	1650	54	23	10	--	69	12	53	4.6
DEC.									
10...	1145	60	20	10	--	72	15	50	3.5

DATE	BICARBONATE (MCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLORIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUORIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)
JAN.									
09...	--	--	--	--	--	--	--	--	--
10...	118	0	120	9.1	.2	.20	.00	299	290
30...	--	--	--	--	--	--	--	--	--
FEB.									
21...	190	0	220	21	.9	.28	--	--	516
APR.									
04...	127	0	110	6.5	.2	.08	--	--	285
26...	--	--	--	--	--	--	--	--	--
MAY									
02...	106	0	62	5.3	.4	.04	.01	207	197
15...	--	--	--	--	--	--	--	--	--
31...	104	0	65	3.2	.0	.03	.00	195	195
JUNE									
05...	103	0	61	3.2	.1	.01	--	--	188
JULY									
25...	135	0	95	6.4	.2	.02	--	--	270
AUG.									
20...	97	0	49	2.5	.1	.09	--	--	168
SEP.									
16...	162	0	96	7.5	.3	.01	--	--	299
OCT.									
16...	229	0	140	14	.4	.10	.05	433	429
DEC.									
10...	209	0	150	17	.3	.28	.00	447	432

RIO GRANDE BASIN

08290000 RIO CHAMA NEAR CHAMITA, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	HARD- NESS (CA, MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MMOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (8) (UG/L) (01020)
JAN.								
09...	--	--	--	415	--	--	2.0	--
10...	170	71	.8	452	8.0	2.0	3.0	60
30...	--	--	--	474	--	--	1.0	--
FEB.								
21...	300	140	1.3	790	8.1	--	5.0	--
APR.								
04...	180	73	.8	461	7.9	--	9.5	--
26...	--	--	--	345	--	--	18.5	--
MAY								
02...	130	38	.5	325	8.3	26.0	17.0	23
15...	--	--	--	365	--	--	16.0	--
31...	130	40	.5	309	8.1	22.5	14.5	22
JUNE								
05...	120	31	.5	303	7.9	--	13.0	--
JULY								
25...	160	45	.9	439	7.9	--	21.0	--
AUG.								
20...	110	30	.5	277	7.9	--	18.5	--
SEP.								
16...	190	57	.9	485	8.2	--	20.0	--
OCT.								
16...	220	32	1.6	667	7.9	--	21.0	4
DEC.								
10...	240	69	1.4	681	8.1	--	.0	70

TRACE ELEMENT ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	DIS- SOLVED ALUM- INUM (AL) (UG/L) (01106)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BERYL- LIUM (BE) (UG/L) (01010)	DIS- SOLVED BISMUTH (BI) (UG/L) (01015)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	DIS- SOLVED COBALT (CO) (UG/L) (01035)
JAN.										
10...	1647	10	4	90	<2	<6	60	<3	<3	<4
MAY										
02...	1552	23	1	75	<1	<5	23	<2	<2	<5
31...	1057	60	1	67	0	<4	22	<2	<2	<4

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED GALLIUM (GA) (UG/L) (01120)	DIS- SOLVED GER- MANIUM (GE) (UG/L) (01125)	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L) (01060)
JAN.										
10...	2	<3	<6	5	<100	<5	20	<3	.0	<2
MAY										
02...	2	<2	<5	16	100	<3	20	4	.0	<2
31...	2	0	<4	40	100	<4	11	4	.0	1

DATE	DIS- SOLVED NICKEL (NI) (UG/L) (01065)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED STRON- TIUM (SR) (UG/L) (01080)	DIS- SOLVED TIN (SN) (UG/L) (01100)	DIS- SOLVED TANIUM (TI) (UG/L) (01150)	DIS- SOLVED VANA- DIUM (V) (UG/L) (01085)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L) (01160)
JAN.									
10...	<5	0	3	420	<6	<3	<3.0	4	<6
MAY									
02...	<2	0	1	350	<5	<2	2.0	4	<7
31...	<4	0	0	240	<4	3	2.0	3	<4

RIO GRANDE BASIN

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08290000 RIO CHAMA NEAR CHAMITA, N. MEX.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	784	526	400	333	---	472	366	545	---	---
2	---	---	---	482	370	331	---	420	408	507	---	---
3	---	---	851	588	392	328	---	417	420	559	---	---
4	---	784	816	488	357	339	---	390	444	562	---	---
5	---	800	784	526	354	331	---	395	435	---	---	---
6	---	833	800	625	374	333	367	397	441	---	---	---
7	569	816	800	571	345	323	374	392	435	---	---	---
8	580	833	816	588	354	317	426	412	461	---	---	---
9	580	826	816	556	360	317	345	---	489	---	---	---
10	571	826	727	588	364	320	310	440	519	---	---	---
11	574	833	741	667	377	292	336	454	530	---	---	---
12	569	833	776	606	360	308	303	343	590	---	---	---
13	781	833	816	637	417	312	351	469	585	---	---	---
14	775	851	800	617	400	308	345	443	584	---	---	---
15	771	833	769	625	412	345	348	380	---	---	---	---
16	781	833	755	645	367	333	370	333	---	---	---	---
17	765	833	719	613	385	315	364	315	---	---	---	---
18	773	833	714	---	385	301	385	300	---	---	---	---
19	800	816	702	---	385	354	417	295	---	---	---	---
20	789	833	671	488	377	308	---	292	---	---	---	---
21	789	840	678	571	392	290	---	294	539	---	---	---
22	798	769	714	556	412	278	---	286	508	---	---	---
23	769	784	784	500	351	268	425	290	514	---	---	---
24	769	775	769	357	342	274	392	---	531	---	---	---
25	777	769	714	357	345	276	377	---	558	---	---	---
26	750	769	606	354	360	---	412	293	550	---	---	---
27	789	800	580	360	357	---	323	317	557	---	---	---
28	582	769	548	357	345	---	317	369	548	---	---	---
29	591	---	478	351	396	---	317	362	540	---	---	---
30	591	---	533	377	325	---	850	368	544	---	---	---
31	588	---	460	---	328	---	622	366	---	---	---	---
MONTH	699	813	717	521	371	313	---	368	504	---	---	---
YEAR	MAX	851	MIN	268	MEAN	522						

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	5.0	15.0	15.5	21.0	26.5	29.5	21.0	24.0	10.0	5.5
2	---	---	---	11.0	14.5	21.0	26.5	33.5	21.0	24.0	10.0	5.5
3	---	---	5.5	14.5	14.5	20.5	26.5	14.5	21.0	24.0	10.0	4.5
4	---	5.0	10.0	---	15.5	20.5	26.5	29.5	24.0	24.0	10.0	4.5
5	---	6.0	11.0	15.5	15.5	20.5	25.5	32.0	24.0	24.0	---	5.5
6	---	6.0	13.5	15.0	15.5	20.5	25.5	32.0	24.0	21.0	---	6.0
7	4.5	7.0	12.0	15.5	15.5	21.0	25.5	32.0	21.0	21.0	14.5	4.5
8	4.5	6.5	12.0	16.5	17.0	19.5	26.5	32.0	24.0	21.0	13.0	4.5
9	3.5	6.0	12.0	15.5	15.5	21.0	24.0	---	15.5	21.0	18.5	4.5
10	3.5	6.5	5.5	14.5	17.0	21.0	24.0	32.0	15.5	24.0	15.5	4.5
11	3.5	6.5	13.5	13.0	17.0	21.0	24.0	32.0	15.5	21.0	15.5	4.5
12	4.5	7.0	15.0	13.5	17.0	24.0	24.0	35.0	18.5	21.0	15.5	4.5
13	4.5	8.5	---	13.5	17.0	24.0	25.5	35.0	18.5	21.0	13.0	4.5
14	6.0	7.0	12.0	13.5	17.0	24.0	25.5	35.0	18.5	24.0	13.0	4.5
15	4.0	7.0	13.5	17.0	17.0	24.0	25.5	35.0	---	21.0	13.0	4.5
16	3.5	9.0	15.0	17.0	20.5	24.0	24.0	35.0	---	21.0	10.0	4.5
17	4.5	8.5	15.0	17.0	20.5	24.0	24.0	32.0	---	21.0	10.0	4.5
18	4.5	9.0	11.5	17.0	21.5	24.0	25.5	35.0	---	---	---	---
19	4.0	8.0	16.0	15.5	18.5	24.0	25.5	36.0	---	21.0	10.0	4.5
20	4.0	5.0	15.5	15.5	20.5	24.0	25.5	35.0	---	---	10.0	4.5
21	4.5	7.0	13.5	17.0	23.0	24.0	26.5	35.0	21.0	23.0	10.0	5.5
22	5.5	5.5	14.5	15.5	23.0	25.0	26.5	29.5	21.0	23.0	10.0	4.5
23	6.0	6.5	11.0	15.0	21.0	25.0	29.0	24.5	21.0	18.5	10.0	---
24	5.5	5.0	9.0	15.5	21.0	25.0	25.5	---	21.0	---	11.5	---
25	6.5	5.5	15.0	15.5	23.0	25.0	26.5	---	21.0	18.5	10.0	---
26	6.5	7.0	15.0	15.5	21.0	25.5	26.5	24.0	21.0	---	4.5	---
27	7.0	5.5	16.0	17.0	23.0	26.5	26.5	24.0	19.5	18.5	4.5	---
28	6.0	5.5	13.5	15.5	21.0	26.5	26.5	24.0	23.0	---	---	3.5
29	6.5	---	13.5	17.0	23.0	26.5	26.5	24.0	23.0	---	---	1.5
30	5.5	---	14.5	13.0	23.0	26.5	25.5	21.0	24.0	15.5	4.5	1.5
31	6.5	---	10.5	---	21.0	---	26.5	21.0	---	11.5	---	1.5
MONTH	5.0	6.5	12.5	15.0	19.0	23.5	25.5	30.0	20.5	21.0	11.0	4.5
YEAR	MAX	36.0	MIN	1.5	MEAN	16.5						

RIO GRANDE BASIN

08290000 RIO CHAMA NEAR CHAMITA, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1150	50	155	753	90	183	132	130	46
2	1070	50	144	570	80	123	133	110	40
3	885	50	119	130	50	18	133	100	36
4	800	50	108	110	40	12	132	150	53
5	741	50	100	133	40	14	132	110	39
6	728	50	98	138	50	19	132	160	57
7	728	50	98	142	60	23	134	180	65
8	734	90	178	111	30	9.0	134	220	80
9	727	50	98	102	60	17	135	180	66
10	723	60	117	104	20	5.6	163	360	158
11	710	60	115	107	30	8.7	158	440	188
12	707	70	134	134	90	33	151	620	253
13	715	70	135	138	150	56	244	520	343
14	711	40	77	145	80	31	264	420	299
15	696	50	94	139	80	30	430	750	871
16	682	40	74	120	60	19	495	800	1070
17	684	40	74	118	50	16	463	500	625
18	691	40	75	120	50	16	198	370	198
19	670	40	72	115	100	31	185	270	135
20	664	40	72	121	80	26	282	400	305
21	682	10	18	131	50	18	393	520	552
22	664	30	54	130	120	42	407	490	538
23	709	40	77	113	90	27	496	92	123
24	708	10	19	105	170	48	506	850	1160
25	701	50	95	107	130	38	515	540	751
26	699	50	94	107	210	61	566	510	779
27	713	60	116	110	70	21	609	430	707
28	697	80	151	124	160	54	612	490	810
29	691	70	131	--	--	--	612	520	859
30	610	110	181	--	--	--	611	880	1450
31	717	90	174	--	--	--	628	740	1250
TOTAL	22807	--	3247	4477	--	999.3	10185	--	13906

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	635	550	943	494	1900	2530	585	760	1200
2	628	400	678	511	1800	2480	597	1090	1760
3	613	350	579	509	1880	2580	559	940	1420
4	504	300	408	552	1970	2940	558	700	1050
5	256	180	124	679	1600	2930	620	670	1120
6	228	400	246	712	1600	3080	796	1480	3180
7	220	430	255	722	1200	2340	711	550	1060
8	233	340	214	742	1320	2640	778	410	861
9	210	260	147	570	1550	2390	818	350	773
10	225	280	170	388	1430	1500	721	400	779
11	269	140	102	460	900	1120	775	590	1230
12	360	160	156	401	680	736	719	600	1160
13	249	140	94	326	2050	1800	740	370	739
14	195	140	74	498	3620	4870	750	830	1680
15	152	120	49	890	4440	10700	766	950	1960
16	173	180	84	550	2590	3850	909	750	1840
17	183	180	89	355	1500	1440	966	600	1560
18	195	110	58	393	2000	2120	943	600	1530
19	246	130	86	505	1870	2550	870	930	2180
20	244	480	316	431	1290	1500	884	1110	2650
21	410	540	598	589	1420	2260	883	520	1240
22	476	520	668	528	710	1010	875	470	1110
23	437	500	590	514	710	985	892	640	1540
24	474	1270	1630	524	660	934	874	400	944
25	580	1800	2820	546	910	1340	843	350	797
26	664	1070	1920	560	1020	1540	823	350	778
27	808	2770	6040	519	330	462	523	300	424
28	637	1510	2600	568	630	966	366	300	296
29	585	850	1340	529	650	928	402	300	326
30	551	1600	2380	510	670	923	408	300	330
31	--	--	--	530	720	1030	--	--	--
TOTAL	11640	--	25458	16605	--	68474	21954	--	37517

08290000 RIO CHAMA NEAR CHAMITA, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	388	300	314	638	350	603	146	80	32
2	350	300	284	822	280	621	89	60	14
3	506	500	683	858	500	1160	87	90	21
4	905	1700	4150	759	490	1000	90	160	39
5	833	1700	3820	749	380	768	95	130	33
6	898	1780	4320	387	260	272	92	90	22
7	859	1710	3970	203	200	110	76	100	21
8	937	1850	4680	233	220	138	63	80	14
9	793	830	1780	191	200	103	54	70	10
10	333	160	144	202	160	87	52	90	13
11	358	160	155	171	130	60	61	160	26
12	206	130	72	156	180	76	57	130	20
13	217	180	105	221	200	119	94	90	23
14	211	90	51	636	190	326	104	70	20
15	209	280	158	662	260	465	91	80	20
16	231	290	181	664	280	502	87	80	19
17	207	180	101	631	320	545	116	80	25
18	214	2170	1250	652	160	282	86	80	19
19	234	780	493	656	140	248	83	80	18
20	295	850	677	668	150	271	78	80	17
21	169	680	310	667	180	324	70	120	23
22	154	650	270	660	170	303	67	130	24
23	148	410	164	660	180	321	85	280	64
24	137	360	133	653	180	317	81	220	48
25	247	420	280	655	180	318	82	130	29
26	746	400	806	643	170	295	74	70	14
27	765	280	578	615	150	249	85	70	16
28	683	300	553	638	120	207	82	70	15
29	676	2050	3740	496	90	121	87	80	19
30	814	6950	15300	149	110	44	79	70	15
31	858	470	1090	143	110	42	--	--	--
TOTAL	14581	--	50612	16138	--	10297	2493	--	693

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	76	70	14	183	180	89	79	50	11
2	74	50	10	193	180	94	86	50	12
3	74	110	22	132	100	36	82	50	11
4	78	120	25	160	140	60	84	50	11
5	75	120	24	129	100	35	94	60	15
6	79	120	26	110	100	30	128	100	35
7	105	130	37	103	90	25	105	100	28
8	121	130	42	96	90	23	95	100	26
9	80	60	13	109	100	29	80	60	13
10	69	60	11	110	100	30	79	60	13
11	121	130	42	113	100	31	72	50	9.7
12	328	150	133	110	100	30	70	50	9.5
13	157	140	59	113	100	31	81	60	13
14	93	120	30	148	130	52	69	50	9.3
15	39	40	4.2	134	120	43	80	60	13
16	47	40	5.1	126	110	37	91	60	15
17	50	40	5.4	81	60	13	90	60	15
18	42	40	4.5	66	50	8.9	87	60	14
19	38	40	4.1	67	50	9.0	88	60	14
20	32	40	3.5	75	50	10	113	90	27
21	35	40	3.8	74	50	10	106	90	26
22	45	40	4.9	65	50	8.8	85	60	14
23	75	60	12	71	50	9.6	77	60	12
24	132	90	32	71	50	9.6	56	50	7.6
25	146	100	39	66	50	8.9	45	40	4.9
26	113	80	24	66	50	8.9	45	40	4.9
27	124	90	30	71	50	9.6	45	40	4.9
28	100	80	22	72	50	9.7	45	40	4.9
29	95	80	21	76	50	10	45	40	4.9
30	117	80	25	77	50	10	45	40	4.9
31	191	180	93	--	--	--	50	40	5.4
TOTAL	2951	--	821.5	3067	--	811.0	2397	--	408.9

CAL YR 1974 TOTAL WATER DISCHARGE (CFS-DAYS)
 CAL YR 1974 TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)

129295
 213244.7

WTR YR 1974 TOTAL WATER DISCHARGE (CFS-DAYS)
 WTR YR 1974 TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)

170190
 283103.4

RIO GRANDE BASIN

08290000 RIO CHAMA NEAR CHAMITA, N. MEX.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDIM- ENT (MG/L) (80154)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN .002 MM (70337)	SUS. SED. FALL DIAM. % FINER THAN .004 MM (70338)	SUS. SED. FALL DIAM. % FINER THAN .008 MM (70339)
JULY 30...	0800	25.6	814	9020	19800	50	70	82
AUG. 06...	1100	37.2	387	310	324	36	62	77
SEP. 23...	1830	21.1	85	290	67	55	57	59
OCT. 03...	1800	23.9	74	180	36	84	88	92

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM (70340)	SUS. SED. FALL DIAM. % FINER THAN .031 MM (70341)	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN .250 MM (70344)	SUS. SED. FALL DIAM. % FINER THAN .500 MM (70345)	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM (70346)
JULY 30...	90	93	97	98	99	100	--
AUG. 06...	85	89	92	95	97	99	100
SEP. 23...	64	70	78	93	98	100	--
OCT. 03...	95	96	97	98	99	100	--

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, N. MEX.
(National stream-quality accounting network, irrigation,
surveillance, and radiochemical network station)

LOCATION.--Lat 35°52'29", long 106°08'30", in SW¼SW¼ sec.18, T.19 N., R.8 E., Santa Fe County, in San Ildefonso Pueblo Grant at gaging station, 400 ft (120 m) downstream from bridge on State Highway 4, 1.8 mi (2.9 km) southwest of San Ildefonso Pueblo, 2.5 mi (4.0 km) downstream from Pojoaque River, and 6.8 mi (10.9 km) west of Pojoaque, and at mile 1,614.2 (2,597.2 km).

DRAINAGE AREA.--14,300 mi² (37,040 km²), approximately, including 2,940 mi² (7,610 km²) in closed basin in San Luis Valley, Colo.

PERIOD OF RECORD.--Chemical analyses: October 1946 to current year.

Water temperatures: October 1948 to current year.

Sediment records: October 1947 to current year.

EXTREMES:

Current year:

Dissolved solids: Maximum, 458 mg/l July 31; minimum, 188 mg/l Aug. 28.

Hardness: Maximum, 290 mg/l July 31; minimum, 120 mg/l Feb. 1-2, Apr. 1-7, June 1-30, July 1-8, Aug. 15-31.

Specific conductance: Maximum daily, 614 micromhos July 31; minimum daily, 276 micromhos July 8.

Water temperatures: Maximum, 29.0°C July 23; minimum, freezing point on many days during January, February, and December.

Sediment concentrations: Maximum daily, 12,100 mg/l July 19; minimum daily, 11 mg/l Feb. 7.

Sediment discharge: Maximum daily, 26,400 tons (24,000 tonnes) July 19; minimum daily, 18 tons (16 tonnes) Sept. 10.

Period of record:

Dissolved solids: Maximum, 1,030 mg/l Aug. 5, 1963; minimum, 135 mg/l May 1-31, 1969.

Hardness: Maximum, 702 mg/l Aug. 5, 1963; minimum, 83 mg/l May 22-26, 1960, June 22-28, 1968.

Specific conductance: Maximum daily, 1,310 micromhos Aug. 5, 1963; minimum daily, 165 micromhos June 13, 1952.

Water temperatures: Maximum, 31.0°C Aug. 4, 5, 1954; minimum, freezing point on many days during winter months.

Sediment concentrations: Maximum daily, 43,500 mg/l Aug. 21, 1955; minimum daily, 11 mg/l July 27, 1963, and Feb. 7, 1974.

Sediment discharge: Maximum daily, 366,000 tons (332,000 tonnes) Aug. 23, 1961; minimum daily, 3 tons (2.7 tonnes) July 27, 1963.

REMARKS.--Daily mean temperature is computed by averaging the maximum and minimum temperatures for each day.

CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- CHARGE (CFS) (00060)	DIS- SOLVED SILICA (SI02) (00955)	DIS- SOLVED IRON (FE) (01046)	DIS- SOLVED CAL- CIUM (CA) (00915)	DIS- SOLVED MAG- SIUM (MG) (00925)	DIS- SOLVED SODIUM (NA) (00930)	DIS- SOLVED PO- SIUM (K) (00935)	BICAR- BONATE (HCO3) (00440)	CAR- BONATE (CO3) (00445)	DIS- SOLVED SULFATE (SO4) (00945)	DIS- SOLVED CHLOR- IDE (CL) (00940)	DIS- SOLVED FLUOR- IDE (F) (00950)
JAN.												
01-31	1330	21	--	46	9.5	21	2.8	122	0	84	7.8	.4
FEB.												
01-02	1300	12	--	28	11	26	2.6	45	5	120	8.2	.3
03-28	672	24	--	40	9.0	24	2.9	128	0	74	8.0	.5
MAR.												
01-14	885	25	--	43	8.7	23	2.9	130	0	67	8.0	.4
15-17	1390	23	--	49	11	31	3.0	124	0	110	9.9	.4
18-28	1350	24	--	46	9.2	27	3.1	124	0	83	8.4	.4
29-31	1520	23	--	39	8.2	20	2.7	116	0	63	5.7	.3
APR.												
01-07	1300	21	--	37	6.6	19	2.7	117	0	59	5.9	.3
08-25	730	20	--	52	10	28	3.4	146	3	95	10	.4
26-30	1160	17	--	43	7.6	21	2.9	128	0	63	7.0	.3
MAY												
01-31	1030	18	--	41	7.9	19	2.6	125	0	56	5.7	.4
JUNE												
01-30	1030	17	--	36	7.4	16	2.4	117	0	54	6.0	.3
JULY												
01-08	892	17	--	36	7.1	15	2.3	113	0	54	5.2	.3
09-19	494	18	--	48	8.1	20	3.0	129	0	78	6.4	.4
20-27	513	18	--	49	8.5	25	3.5	144	0	90	7.2	.4
28-30	973	17	--	40	6.3	16	2.5	117	0	60	3.9	.3
31...	1110	15	--	90	9.7	23	3.8	101	0	220	8.2	.2
AUG.												
01-14	685	18	--	52	7.2	21	3.3	134	0	90	5.3	.3
15-31	838	16	--	36	6.8	16	2.3	116	0	57	4.1	.2
SEP.												
01-30	263	22	--	47	7.4	28	3.3	163	0	68	8.3	.5
OCT.												
01-31	361	22	--	50	8.2	33	3.5	174	0	82	11	.6
NOV.												
01-30	429	24	--	56	10	34	3.9	177	0	82	11	.6
DEC.												
01-31	450	27	--	47	7.8	27	3.6	162	0	59	8.8	.6
CALENDAR YEAR												
WTD, AVG.	--	20	--	44	8.4	22	2.9	131	0	72	7.4	.4
TIME WTD.												
AVG.	763	21	--	45	8.3	24	3.1	140	0	72	7.8	.4
TOT, LOAD												
(TONS)	--	15400	--	33000	6300	16900	2190	98500	142	54200	5540	300
WATER YEAR												
WTD, AVG.	--	20	--	42	7.9	20	2.8	124	0	67	6.5	.5
TIME WTD.												
AVG.	949	21	--	42	7.9	21	2.8	128	0	67	6.7	.4
TOT, LOAD												
(TONS)	--	19100	--	39100	7400	19100	2600	116000	142	62500	6120	426

RIO GRANDE BASIN

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, N. MEX.--Continued

CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (000631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (000671)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC=FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNIT8) (00400)
JAN.												
01-31	.30	--	--	--	254	.35	912	150	54	.7	398	8.0
FEB.												
01-02	.01	--	--	--	235	.32	825	120	70	1.1	369	8.9
03-28	.24	--	--	--	247	.34	448	140	32	.9	390	8.3
MAR.												
01-14	.35	--	--	--	244	.33	583	140	37	.8	392	8.2
15-17	.49	--	--	--	301	.41	1130	170	66	1.0	463	8.0
18-28	.46	--	--	--	264	.36	962	150	51	1.0	418	7.9
29-31	.29	--	--	--	220	.30	903	130	36	.8	351	8.1
APR.												
01-07	.08	--	--	--	209	.28	734	120	24	.8	338	8.3
08-25	.00	--	--	--	294	.40	579	170	46	.9	458	8.5
26-30	.01	--	--	--	225	.31	705	140	34	.8	365	8.3
MAY												
01-31	.13	--	--	--	213	.29	592	140	32	.7	347	8.0
JUNE												
01-30	.15	--	--	--	197	.27	548	120	24	.6	329	7.4
JULY												
01-08	.33	--	--	--	194	.26	467	120	27	.6	306	8.0
09-19	.56	--	--	--	248	.34	331	150	44	.7	375	8.1
20-27	.08	--	--	--	273	.37	378	160	42	.9	427	7.9
28-30	.33	--	--	--	205	.28	539	130	34	.6	330	7.9
31...	.05	--	--	--	420	.57	1260	260	180	.6	628	8.0
AUG.												
01-14	.28	--	--	--	264	.36	488	160	50	.7	420	7.9
15-31	.02	--	--	--	196	.27	443	120	25	.6	320	8.2
SEP.												
01-30	.11	--	--	--	265	.36	188	150	16	1.0	429	8.1
OCT.												
01-31	.15	--	--	--	297	.40	289	160	17	1.1	472	8.0
NOV.												
01-30	.16	--	--	--	309	.42	358	180	35	1.1	487	8.1
DEC.												
01-31	.29	--	--	--	262	.36	318	150	17	1.0	410	8.0
CALENDAR YEAR												
WTD. AVG.	.21	--	--	--	244	.33	--	144	36	.8	388	8.0
TIME WTD.												
AVG.	.20	--	--	--	252	.34	--	148	33	.9	402	8.0
TOT. LOAD (TONS)	159	--	--	--	183000	--	--	--	--	--	--	--
WATER YEAR												
WTD. AVG.	.19	--	--	--	229	.31	--	138	35	.7	366	8.0
TIME WTD.												
AVG.	.18	--	--	--	233	.32	--	138	32	.8	371	8.0
TOT. LOAD (TONS)	179	--	--	--	215000	--	--	--	--	--	--	--

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (000661)	DIS- SOLVED SILICA (SiO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
JAN.										
11...	1207	1270	21	10	--	46	9.1	21	2.6	126
FEB.										
08...	1130	590	28	10	--	47	9.9	26	2.5	142
14...	1000	724	27	0	30	48	11	25	2.5	--
MAR.										
14...	1400	1130	23	40	20	42	9.2	27	2.9	120
MAY										
03...	1133	1050	19	10	--	39	7.6	19	2.8	119
31...	1451	858	17	10	--	43	7.6	19	2.8	130
JUNE										
27...	1134	834	18	890	0	36	7.2	16	2.4	114
JULY										
31...	1210	1170	15	10	--	98	10	20	3.9	107
AUG.										
28...	1705	918	17	50	--	38	5.6	14	2.4	114
SEP.										
25...	0815	265	23	40	0	44	9.5	28	3.5	164
OCT.										
23...	0915	340	23	20	--	52	8.8	34	4.5	178
NOV.										
22...	1053	390	23	10	--	53	8.4	34	3.7	180
DEC.										
18...	0900	445	26	10	10	48	9.5	29	3.2	163

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	CAR- BONATE (CU3) (00445)	DIS- SOLVED SULFATE (SO4) (00945)	DIS- SOLVED CHLOR- IDE (CL) (00940)	DIS- SOLVED FLUOR- IDE (F) (00950)	BROMIDE (BR) (71870)	DIS- SOLVED NITRATE (N) (00618)	DIS- SOLVED NITRITE (N) (00613)	TOTAL NITRITE PLUS NITRATE (N) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (00631)	AMMONIA NITRO- GEN (N) (00610)
JAN, 11...	0	70	7.8	1.1	--	.37	.01	.38	.38	.07
FEB, 08...	0	80	8.7	.4	--	.35	.01	.36	.36	.05
14...	0	79	8.5	.4	--	.0	--	--	.43	--
MAR, 14...	0	87	7.7	.5	--	.28	.00	.28	.28	.22
MAY, 03...	0	64	5.6	.4	--	.04	.00	.09	.04	.11
31...	0	65	5.7	.3	--	.01	.00	.03	.01	.06
JUNE, 27...	0	50	5.5	.3	--	--	.00	.03	--	.01
JULY, 31...	0	230	3.8	.2	--	.13	.00	.13	.13	.04
AUG, 28...	0	50	4.0	.3	--	.03	.00	.03	.03	.11
SEP, 25...	0	67	8.1	.6	--	.02	.00	.04	.02	.04
OCT, 23...	0	91	10	.6	--	.01	.00	.02	.01	.06
NOV, 22...	0	69	11	.6	--	.01	.00	.01	.01	.01
DEC, 18...	0	72	9.8	.6	--	.08	.00	.15	.08	.03

DATE	TOTAL ORGANIC NITRO- GEN (N) (00605)	TOTAL NITRO- GEN (N) (00600)	TOTAL PHOS- PHORUS (P) (00665)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (00671)	DIS- SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SUMP- TION RATIO (00931)
JAN, 11...	.36	.81	.09	.04	253	243	150	49	.7
FEB, 08...	.22	.63	.07	.04	279	274	160	42	.9
14...	--	--	--	.04	--	--	170	170	.8
MAR, 14...	.12	.62	.13	.04	267	260	140	42	1.0
MAY, 03...	.35	.55	.15	.03	229	216	130	31	.7
31...	1.0	1.1	.12	.04	237	225	140	32	.7
JUNE, 27...	--	.64	.12	.01	195	193	120	26	.6
JULY, 31...	.39	.56	.32	.00	458	434	290	200	.5
AUG, 28...	.52	.66	.13	.09	206	188	120	26	.6
SEP, 25...	.44	.52	.11	.03	265	265	150	15	1.0
OCT, 23...	.46	.54	.07	.02	304	312	170	24	1.1
NOV, 22...	.08	.10	.05	.02	307	292	170	19	1.1
DEC, 18...	.15	.33	.04	.01	291	279	160	25	1.0

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN, 11...	407	8.2	1.0	1.5	--	11.3	--	4.7	50
FEB, 08...	431	8.2	-6.0	.0	8	11.4	--	2.6	50
14...	432	8.1	--	3.5	--	--	--	--	50
MAR, 14...	418	8.4	19.0	9.0	20	9.1	--	4.2	20
MAY, 03...	349	8.4	20.5	13.5	50	8.4	--	17	40
31...	354	8.4	23.5	18.0	50	7.8	--	6.1	150
JUNE, 27...	302	8.3	--	20.0	60	--	--	6.0	20
JULY, 31...	580	8.2	25.0	20.5	200	6.5	--	8.8	40
AUG, 28...	295	8.2	24.0	20.5	80	8.0	14	7.0	40
SEP, 25...	425	8.2	8.0	8.0	10	8.4	8	4.7	50
OCT, 23...	493	8.2	12.5	11.5	30	8.9	10	4.7	170
NOV, 22...	467	8.4	12.5	4.5	10	10.4	4	5.9	90
DEC, 18...	435	8.4	-3.5	.0	7	12.0	6	4.2	80

RIO GRANDE BASIN

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, N. MEX.--Continued

TRACE ELEMENT AND RADIOCHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L) (01002)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	DIS- SOLVED COBALT (CO) (UG/L) (01035)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)
MAR, 14...	1400	4	2	20	0	0	0	5	2200
JUNE 27...	1134	3	2	20	1	0	0	1	2400
SEP, 25...	0815	2	2	50	0	0	0	1	770
OCT, 23...	0915	--	--	170	--	--	--	--	--
DEC, 18...	0900	3	2	80	0	<10	3	5	710

DATE	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE- NIUM (SE) (UG/L) (01147)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
MAR, 14...	40	<100	0	20	.0	.0	1	2	10
JUNE 27...	890	<100	0	0	.0	.0	0	0	20
SEP, 25...	40	<100	0	0	.0	--	0	0	--
OCT, 23...	20	--	--	--	--	--	--	--	--
DEC, 18...	10	<100	0	10	<.1	<.1	1	1	0

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT, (UG/L) (80030)	SUS- PENDED GROSS ALPHA AS U-NAT, (UG/L) (80040)	DIS- SOLVED GROSS BETA AS C8-137 (PC/L) (03515)	SUS- PENDED GROSS BETA AS C8-137 (PC/L) (03516)	DIS- SOLVED GROSS BETA AS AS SR90 /Y90 (PC/L) (80050)	SUS- PENDED GROSS BETA AS AS SR90 /Y90 (PC/L) (80060)	DIS- SOLVED RA-226 (RADON METHOD) (UG/L) (09511)	DIS- SOLVED NATURAL URANIUM (U) (UG/L) (22703)
MAR, 14...	--	--	--	--	--	--	--	--
JUNE 27...	--	--	--	--	--	--	--	--
SEP, 25...	--	--	--	--	--	--	--	--
OCT, 23...	17	8.7	5.8	4.3	5.0	3.4	.05	3.6
DEC, 18...	--	--	--	--	--	--	--	--

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL PHYTO- PLANK- TON (CELLS PER ML) (60050)	CHLORO- PHYLL A (UG/L) (32230)	CHLORO- PHYLL B (UG/L) (32231)	FECAL COLI- FORM (COL, PER 100 ML) (31616)	STREP- TOCUCCI (COL- ONIES PER 100 ML) (31679)
JAN, 11...	1207	--	--	--	190	--
FEB, 08...	1130	--	--	--	20	42
MAR, 14...	1400	--	--	.0	210	180
MAY 03...	1133	--	--	--	140	15
31...	1451	--	3.3	2.0	210	284
JUNE 27...	1134	--	2.0	1.6	860	77
JULY 31...	1210	--	--	--	6400	--
AUG, 28...	1705	--	--	--	3300	4200
SEP, 25...	0815	13000	--	--	3000	700
OCT, 23...A	0915	12000	4.0	.7	630	1100
NOV, 22...	1053	4300	--	--	370	110
DEC, 18...	0900	4900	--	--	93	160

A PERIPHYTON, BIOMASS, DRY WEIGHT, TOTAL (G/SQ M)(00573) 110
 PERIPHYTON, BIOMASS, ASH WEIGHT (G/SQ M)(00572) 100

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, N. MEX.--Continued

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

PHYTOPLANKTON

DATE	PHYLUM .Class ..Order ...Family....Genus.....Species	COMMON NAME	PERCENT OF TOTAL
SEP 25...	CHLOROPHYTA .Chlorophyceae....Micractinium....Scenedesmus....Oocystis....Closterium....Ankistrodesmus	Green algae	9 6 5 1 1
	CHRYSOPHYTA .Bacillariophyceae....Cyclotella (Codominant) ....Navicula (Codominant) ....Nitzschia....Cymbella....Gomphonema....Cocconeis....Epithemia....Achnanthes....Synedra....Melosira....Diatoma	Diatoms	37 16 3 3 3 3 2 2 2 2 2 1
OCT 23...	CHLOROPHYTA .Chlorophyceae....Oocystis....Pediastrum....Scenedesmus....Ankistrodesmus	Green algae	12 10 5 1
	CHRYSOPHYTA .Bacillariophyceae....Cyclotella (Codominant) ....Navicula (Codominant) ....Diatoma....Cocconeis....Synedra....Epithemia....Nitzschia....Rhoicosphenia....Surirella....Gomphonema....Neidium....Achnanthes	Diatoms	33 15 6 5 4 2 2 1 1 1 1 1
NOV 22...	CHRYSOPHYTA .Bacillariophyceae....Cyclotella (Dominant) ....Navicula....Diatoma....Nitzschia....Cymbella....Gomphonema....Rhoicosphenia....Achnanthes....Synedra	Diatoms	69 9 9 4 3 3 1 1 1
DEC 18...	CYANOPHYTA .Myxophyceae....Oscillatoria	Blue-green algae	13
	CHLOROPHYTA .Chlorophyceae....Mougeotia	Green algae	4
	CHRYSOPHYTA .Bacillariophyceae....Diatoma (Codominant) ....Navicula (Codominant) ....Synedra....Cymbella....Gomphonema....Fragilaria....Nitzschia....Gyrosigma....Cocconeis	Diatoms	38 22 5 3 3 3 3 3 3

RIO GRANDE BASIN

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, N. MEX.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(UNCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	325	363	394	321	341	343	327	459	381	427	527	429
2	362	376	385	321	355	336	329	394	387	439	519	433
3	328	297	390	324	335	336	326	429	432	439	517	396
4	335	386	387	321	335	346	295	365	401	444	496	398
5	362	402	380	316	351	349	288	431	393	449	490	415
6	354	427	379	356	345	353	307	389	402	438	491	431
7	---	438	379	388	348	360	282	400	398	427	490	427
8	360	310	375	401	329	330	276	410	406	433	499	412
9	374	395	364	414	330	356	377	393	411	437	492	405
10	388	396	365	435	335	346	360	458	424	431	489	398
11	391	396	355	450	346	343	343	445	429	437	476	397
12	391	413	375	456	350	332	342	450	442	462	466	383
13	387	429	414	462	353	332	369	443	444	529	470	416
14	384	430	401	456	339	335	373	416	424	448	470	393
15	392	332	460	456	344	321	386	355	423	459	488	424
16	393	421	458	462	328	313	355	335	423	473	476	401
17	395	423	470	468	329	305	374	352	417	472	471	393
18	394	401	384	462	335	297	384	318	414	475	465	403
19	390	408	366	474	351	305	383	318	444	467	471	399
20	404	402	389	462	357	308	505	311	429	461	472	396
21	401	382	404	480	350	304	413	307	423	461	465	413
22	399	294	405	492	347	299	419	306	429	469	468	395
23	411	371	454	450	340	293	426	300	438	477	461	388
24	423	350	445	430	344	292	426	298	425	474	464	361
25	421	359	426	435	347	288	424	303	417	473	457	400
26	424	363	409	375	335	288	412	304	423	528	461	385
27	417	362	404	350	338	300	374	305	428	475	452	374
28	418	299	396	336	348	327	336	305	438	489	456	367
29	414	---	368	356	355	315	321	305	434	469	449	409
30	393	---	337	365	344	320	313	348	428	477	440	375
31	435	---	335	---	351	---	614	387	---	487	---	394
MONTH	389	379	395	409	343	322	370	364	420	462	477	400
YEAR	MAX	614	MIN	276	MEAN	394						

WATER TEMPERATURE (DEG. C), RECORDER MAXIMUM, MINIMUM, AND MEAN, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JANUARY			FEBRUARY			MARCH			APRIL		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.0	0.0	4.5	1.0	3.0	10.5	5.5	8.0	12.0	8.0	10.0
2	0.0	0.0	0.0	4.5	2.0	3.0	9.0	6.0	7.5	11.0	9.0	10.0
3	0.0	0.0	0.0	4.5	0.5	2.5	9.0	5.0	7.0	10.0	7.0	8.5
4	0.0	0.0	0.0	5.0	0.5	3.0	9.0	4.5	7.0	10.0	7.0	8.5
5	0.0	0.0	0.0	4.5	0.5	2.5	9.0	3.5	6.0	12.0	5.0	8.5
6	1.0	0.0	0.5	2.0	0.0	1.0	10.0	4.0	7.0	14.0	8.0	11.0
7	2.0	0.0	1.0	2.0	0.0	1.0	9.0	5.5	7.0	13.5	8.5	11.0
8	4.0	1.0	2.5	2.0	0.0	1.0	9.5	5.5	7.5	14.5	8.0	11.0
9	4.5	2.0	3.0	2.0	0.0	1.0	10.0	7.0	8.5	14.5	9.0	12.0
10	4.5	2.0	3.0	3.5	0.0	2.0	9.0	5.5	7.0	13.0	9.0	11.0
11	3.5	0.5	2.0	4.5	0.0	2.0	9.5	3.5	6.5	13.0	7.0	10.0
12	2.0	0.0	1.0	5.5	0.0	3.0	10.0	5.0	7.5	13.5	8.0	11.0
13	3.5	0.5	2.0	6.0	2.0	4.0	10.0	5.5	8.0	12.0	7.0	9.5
14	4.5	2.0	3.0	7.0	3.5	5.0	10.0	6.0	8.0	11.5	6.0	9.0
15	3.5	1.0	2.0	8.0	3.0	5.5	12.0	6.0	9.0	15.0	7.5	11.0
16	4.0	0.5	2.0	8.0	3.0	5.5	12.0	7.0	9.5	15.0	8.0	11.5
17	4.0	1.0	2.5	5.5	3.5	4.5	12.0	8.0	10.0	16.5	9.0	13.0
18	5.5	3.5	4.5	7.0	3.5	5.0	12.0	7.0	9.5	16.5	10.5	13.5
19	5.5	2.0	4.0	7.0	2.0	4.5	12.0	9.0	10.5	15.0	10.5	13.0
20	4.5	2.5	3.5	8.5	4.5	6.5	13.5	10.0	12.0	14.0	8.0	11.0
21	6.5	4.0	5.0	7.0	2.0	4.5	12.0	7.0	9.5	13.5	8.0	11.0
22	5.0	3.0	4.0	7.0	2.0	4.5	11.0	7.0	9.0	16.0	9.0	12.5
23	4.0	1.5	3.0	5.5	2.0	4.0	11.0	8.0	9.5	15.0	11.0	13.0
24	4.0	0.5	2.0	5.5	0.0	3.0	11.0	5.5	8.0	16.0	11.0	13.5
25	3.5	0.5	2.0	6.0	0.5	3.0	12.0	7.0	9.5	16.0	12.0	14.0
26	4.0	1.5	2.0	8.0	1.0	4.5	12.0	7.0	9.5	16.0	12.0	14.0
27	4.5	2.0	3.0	8.5	2.0	5.0	12.0	8.5	10.0	14.5	11.0	13.0
28	2.0	0.5	1.0	9.0	3.5	6.0	13.5	9.0	11.0	14.0	10.0	12.0
29	3.0	0.0	1.5	---	---	---	14.0	9.5	12.0	15.5	10.0	13.0
30	3.5	0.0	2.0	---	---	---	14.0	10.0	12.0	15.5	12.0	14.0
31	4.5	0.0	2.5	---	---	---	13.5	10.5	12.0	---	---	---
MONTH	6.5	0.0	2.0	9.0	0.0	3.5	14.0	3.5	9.0	16.5	5.0	11.5

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WATER TEMPERATURE (DEG. C), RECORDER MAXIMUM, MINIMUM, AND MEAN, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

WATER TEMPERATURE (DEG. C), RECORDER MAXIMUM, MINIMUM, AND MEAN, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

MAY				JUNE			JULY			AUGUST		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	10.0	13.5	19.0	15.0	17.0	23.0	18.5	21.0	23.0	19.0	21.0
2	18.0	12.0	15.0	20.0	14.5	17.0	25.5	18.5	22.0	22.0	19.0	20.5
3	18.0	12.0	15.0	17.5	14.0	16.0	26.0	19.0	22.5	19.5	17.0	18.0
4	18.5	13.0	16.0	20.0	12.5	16.0	23.5	20.0	22.0	22.5	17.0	20.0
5	16.5	12.0	14.0	18.0	14.5	16.0	23.5	18.0	21.0	22.5	14.0	20.0
6	17.5	11.5	14.5	17.0	14.0	15.5	24.0	18.0	21.0	22.5	18.5	20.5
7	18.0	12.0	15.0	17.0	13.0	15.0	23.5	19.0	21.0	23.0	18.0	20.5
8	19.5	13.0	16.0	17.5	13.0	15.0	22.0	19.0	20.5	22.5	18.0	20.0
9	19.5	14.0	17.0	20.0	13.0	16.5	24.0	20.0	22.0	23.5	17.0	20.0
10	20.0	14.0	17.0	21.0	14.5	18.0	27.0	19.5	23.0	23.5	17.0	20.0
11	20.0	13.0	16.5	21.0	15.0	18.0	27.0	20.0	23.5	22.0	18.0	20.0
12	18.5	13.0	16.0	23.0	16.0	19.5	24.0	20.0	22.0	24.5	15.5	20.0
13	18.5	13.5	16.0	23.0	17.0	20.0	24.5	18.0	21.0	24.5	19.0	22.0
14	18.5	13.0	16.0	23.5	17.0	20.0	25.5	19.0	22.0	23.0	18.0	20.5
15	19.0	13.5	16.0	23.5	18.0	21.0	24.5	19.0	22.0	22.0	19.5	21.0
16	20.0	13.5	17.0	21.0	18.0	19.5	27.0	20.0	23.5	24.0	19.0	21.5
17	17.5	13.5	15.5	22.0	18.0	20.0	27.0	21.0	24.0	22.0	20.0	21.0
18	18.5	12.0	15.0	21.0	18.0	19.5	24.5	21.0	23.0	23.5	18.0	21.0
19	15.0	13.0	14.0	24.5	18.0	21.0	25.0	18.0	21.5	22.0	19.0	20.5
20	15.5	9.5	12.5	23.0	18.0	20.5	25.5	18.5	22.0	22.0	18.0	20.0
21	16.5	9.5	13.0	23.5	19.0	21.0	27.0	20.0	23.5	23.0	17.0	20.0
22	16.0	10.5	13.0	23.5	18.5	21.0	28.0	21.0	24.5	21.0	18.5	20.0
23	18.5	11.5	15.0	21.0	18.5	20.0	29.0	21.0	25.0	22.0	17.0	19.5
24	17.5	13.5	15.5	23.5	18.0	21.0	25.5	21.0	23.0	20.0	17.0	18.5
25	19.5	11.5	15.5	24.0	19.0	21.5	24.5	19.5	22.0	20.0	15.5	18.0
26	22.0	16.0	19.0	23.5	19.0	21.0	24.5	19.5	22.0	21.0	17.0	19.0
27	21.0	16.0	18.5	25.0	19.0	22.0	24.5	20.0	22.0	19.5	18.0	19.0
28	20.5	16.0	18.0	27.0	19.5	23.0	25.0	20.0	22.5	22.0	16.0	19.0
29	21.0	15.5	18.0	24.0	20.0	22.0	24.0	20.0	22.0	21.0	17.0	19.0
30	22.0	15.5	19.0	24.5	19.0	22.0	24.5	19.0	22.0	23.5	16.0	20.0
31	20.0	15.5	18.0	---	---	---	22.0	20.0	21.0	22.0	18.0	20.0
MONTH	22.0	9.5	16.0	27.0	12.5	19.0	29.0	18.0	22.5	24.5	15.5	20.0
SEPTEMBER				OCTOBER			NOVEMBER			DECEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.5	17.0	21.0	19.0	12.0	15.5	10.0	6.0	8.0	2.0	0.0	1.0
2	22.0	16.0	19.0	19.0	13.0	16.0	12.0	8.0	10.0	3.5	0.0	2.0
3	21.5	14.5	18.0	19.0	14.0	16.5	11.0	9.0	10.0	4.5	0.5	2.5
4	25.0	16.5	21.0	20.5	15.5	18.0	11.5	7.0	9.0	4.5	0.5	2.5
5	24.5	18.0	21.0	19.0	15.5	17.0	10.5	6.5	8.5	5.5	2.0	4.0
6	25.5	19.5	22.5	16.0	12.0	14.0	11.0	6.5	9.0	6.0	3.0	4.5
7	26.0	19.0	22.5	16.0	12.0	14.0	11.0	6.5	9.0	4.0	3.0	3.5
8	24.5	17.0	21.0	19.0	14.0	16.5	11.0	6.6	9.0	4.5	2.0	3.0
9	24.5	18.0	21.0	20.0	15.5	18.0	12.0	9.0	10.5	3.0	0.0	1.5
10	24.5	18.0	21.0	18.5	13.5	16.0	11.0	7.0	9.0	2.0	0.0	1.0
11	24.0	18.0	21.0	17.0	12.0	14.5	10.0	5.5	8.0	2.0	0.0	1.0
12	21.0	17.0	19.0	15.5	13.5	14.5	10.0	5.5	8.0	3.0	0.0	1.5
13	17.0	13.5	15.0	15.5	12.0	14.0	10.0	5.0	7.5	3.0	0.0	1.5
14	18.0	13.5	16.0	15.5	13.5	14.5	9.0	4.5	7.0	2.0	0.0	1.0
15	19.0	15.5	17.0	17.0	11.0	14.0	10.0	5.5	8.0	2.0	0.5	1.0
16	20.0	15.0	17.5	17.0	11.0	14.0	10.0	5.5	8.0	3.0	0.5	2.0
17	18.0	15.5	17.0	17.0	12.0	14.5	9.0	4.5	7.0	3.0	0.5	2.0
18	17.0	14.0	15.5	18.0	12.0	15.0	9.0	5.5	7.0	4.0	0.5	2.0
19	20.0	13.0	16.5	17.0	12.0	14.5	9.5	5.5	7.5	3.0	0.5	2.0
20	19.0	16.0	17.5	17.0	11.5	14.0	8.5	4.5	6.5	3.0	0.5	2.0
21	19.5	15.5	17.5	16.0	12.0	14.0	8.0	3.5	6.0	3.0	0.5	2.0
22	17.5	15.0	16.0	14.0	12.0	13.0	7.0	3.5	5.0	4.0	0.5	2.0
23	20.0	14.0	17.0	15.0	12.0	13.5	8.0	4.5	6.0	3.0	0.5	2.0
24	20.5	15.0	18.0	15.0	10.0	12.5	8.0	4.5	6.0	1.0	0.0	0.5
25	20.5	15.0	18.0	15.0	11.0	13.0	8.0	4.0	6.0	0.0	0.0	0.0
26	20.5	15.0	18.0	14.5	11.0	13.0	8.0	4.0	6.0	0.0	0.0	0.0
27	19.5	14.5	17.0	14.5	12.0	8.0	6.5	3.0	5.0	0.0	0.0	0.0
28	17.5	11.5	14.5	13.0	10.5	7.0	5.5	3.0	4.0	0.0	0.0	0.0
29	19.0	12.0	15.5	12.0	9.5	11.0	5.5	2.0	4.0	0.0	0.0	0.0
30	19.0	12.0	15.5	11.0	8.0	9.5	4.0	1.0	2.5	0.0	0.0	0.0
31	----	----	----	10.0	7.0	8.5	---	---	---	0.0	0.0	0.0
MONTH	26.0	11.5	18.0	20.5	7.0	14.0	12.0	1.0	7.0	6.0	0.0	1.5
YEAR	29.0	0.0	12.0									

RIO GRANDE BASIN

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1720	1070	4970	1320	380	1350	754	300	611
2	1680	960	4350	1270	300	1030	792	160	342
3	1410	1040	3960	718	240	465	766	158	327
4	1190	1190	3820	650	200	351	792	630	1350
5	1260	1190	4050	678	120	220	780	276	581
6	1340	860	3110	678	30	55	773	300	626
7	1300	830	2910	689	11	20	812	250	548
8	1310	700	2480	645	165	287	864	374	872
9	1310	710	2510	625	210	354	890	495	1190
10	1320	1290	4600	650	300	527	1020	200	551
11	1300	570	2000	662	440	786	995	380	1020
12	1270	1080	3700	667	856	1540	967	760	1980
13	1290	1730	6030	684	250	462	1060	1370	3920
14	1320	3300	11800	706	220	419	1130	950	2900
15	1300	2480	8700	694	185	347	1280	550	1900
16	1290	2300	8010	672	230	417	1470	200	794
17	1300	1890	6630	667	240	432	1420	890	3410
18	1320	1830	6520	678	285	522	1120	660	2000
19	1320	780	2780	672	180	327	1090	500	1470
20	1300	540	1900	684	200	369	1190	620	1990
21	1330	600	2150	689	125	233	1340	720	2600
22	1360	880	3230	684	460	850	1380	2610	9720
23	1370	410	1520	656	60	106	1470	2940	11700
24	1320	140	499	650	125	219	1430	2100	8110
25	1300	590	2070	640	137	237	1410	2010	7650
26	1300	875	3070	645	160	279	1440	950	3690
27	1320	510	1820	678	185	339	1500	1450	5870
28	1290	540	1880	712	154	296	1490	2410	9700
29	1250	625	2110	--	--	--	1500	660	2670
30	1240	890	2980	--	--	--	1520	1350	5540
31	1170	400	1260	--	--	--	1550	800	3350
TOTAL	41100	--	117419	20063	--	12839	35995	--	98982
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1590	1070	4590	1130	610	1860	877	450	1070
2	1630	930	4090	1100	817	2430	918	440	1090
3	1640	910	4030	1060	465	1330	872	440	1040
4	1500	770	3120	1020	1210	3330	868	695	1630
5	1070	530	1530	1180	1080	3440	924	525	1310
6	864	550	1280	1300	969	3400	1150	1110	3450
7	818	530	1170	1240	850	2850	1070	740	2140
8	780	220	463	1220	870	2870	1110	635	1900
9	736	380	755	1160	830	2600	1410	821	3130
10	736	370	735	884	550	1310	1190	680	2180
11	766	360	745	918	477	1180	1230	780	2590
12	877	310	734	953	540	1390	1160	733	2300
13	760	350	718	1020	625	1720	1150	905	2810
14	667	150	270	1090	705	2070	1110	812	2430
15	605	90	147	1580	1600	6830	1060	760	2180
16	564	110	168	1170	1030	3250	1170	898	2840
17	564	240	365	890	580	1390	1220	875	2880
18	595	500	803	864	485	1130	1170	710	2240
19	625	500	844	1000	615	1660	1100	655	1950
20	640	240	415	890	350	841	1100	560	1660
21	766	315	651	1050	370	1050	1090	830	2440
22	851	300	689	988	900	2400	1080	677	1970
23	799	240	518	960	625	1620	1080	640	1870
24	844	250	570	946	940	2400	1080	850	2480
25	974	845	2220	939	530	1340	1050	550	1560
26	1060	3020	8640	953	400	1030	1050	340	964
27	1220	2290	7540	897	400	969	844	320	729
28	1120	1970	5960	939	510	1290	575	397	616
29	1190	963	3090	925	470	1170	615	400	664
30	1220	2370	7810	877	585	1390	614	261	433
31	--	--	--	844	435	991	--	--	--
TOTAL	28071	--	64660	31987	--	62531	30937	--	56546

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	607	265	434	774	930	1940	357	124	120
2	544	470	690	946	1300	3320	296	57	46
3	628	375	636	1100	3110	9240	270	54	39
4	1110	840	2520	1050	1090	3090	275	50	37
5	1010	1130	3080	1080	4900	14300	272	46	34
6	1080	1930	5630	707	900	1720	279	46	35
7	1030	1300	3620	461	400	498	265	45	32
8	1130	800	2440	550	2450	3640	239	46	30
9	1020	750	2070	476	1200	1540	223	35	21
10	576	373	664	450	340	413	216	31	18
11	569	370	568	427	250	288	219	41	24
12	392	250	265	378	190	194	219	40	24
13	391	180	190	338	130	119	232	46	29
14	383	146	151	848	909	2050	265	64	46
15	381	153	157	913	640	1580	262	64	45
16	412	370	412	916	616	1520	270	80	58
17	389	237	249	867	610	1430	285	93	72
18	400	285	308	890	530	1270	283	120	92
19	521	12100	26400	884	620	1480	268	66	48
20	526	8500	12100	915	659	1630	277	72	54
21	391	3000	3170	906	599	1470	270	400	292
22	350	865	817	890	575	1380	261	200	141
23	325	370	325	896	330	798	281	70	53
24	310	304	254	902	375	913	277	40	30
25	332	369	331	926	460	1150	262	47	33
26	871	2370	5690	911	380	935	255	47	32
27	1000	1360	3670	896	495	1200	257	51	35
28	988	1090	2910	920	375	932	248	72	48
29	922	1300	3240	838	450	1020	256	35	24
30	1010	1720	4690	420	198	225	254	32	22
31	1110	1700	5090	362	141	138	--	--	--
TOTAL	20708	--	92771	23837	--	61423	7893	--	1614

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	254	32	22	498	421	566	380	72	74
2	256	120	83	480	305	395	381	147	151
3	230	29	20	443	276	330	473	197	252
4	251	32	22	443	210	251	476	183	235
5	266	66	47	460	215	267	479	183	237
6	289	71	55	428	210	243	512	239	330
7	338	660	602	415	180	202	534	215	310
8	328	156	138	411	147	163	529	278	397
9	307	90	75	420	124	141	507	255	349
10	413	9330	23400	439	145	172	446	247	297
11	456	8570	10900	447	138	167	467	267	337
12	625	9880	17900	448	155	187	439	240	284
13	494	6100	8140	447	157	189	466	180	226
14	417	2000	2250	470	145	184	455	229	281
15	352	1240	1180	469	175	222	443	135	161
16	346	1150	1070	451	137	167	462	214	267
17	350	1050	992	411	136	151	463	271	339
18	343	250	232	388	95	100	468	237	299
19	323	140	122	385	98	102	463	228	285
20	313	96	81	390	90	95	470	215	273
21	315	119	101	391	70	74	482	213	277
22	317	165	141	389	86	90	464	118	148
23	341	265	244	385	118	123	462	110	137
24	382	240	248	409	100	110	435	78	92
25	402	270	293	401	107	116	385	106	110
26	384	265	275	396	115	123	412	146	162
27	390	298	314	414	108	121	436	436	513
28	401	290	314	447	100	121	400	613	662
29	367	154	153	455	153	188	387	340	355
30	459	865	1070	430	135	157	401	190	206
31	466	655	824	--	--	--	384	114	118
TOTAL	11195	--	71308	12860	--	5517	13961	--	8164

CAL YR 1974 TOTAL WATER DISCHARGE (CFS-DAYS)
 CAL YR 1974 TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)

278607
 653774

WTR YR 1974 TOTAL WATER DISCHARGE (CFS-DAYS)
 WTR YR 1974 TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)

346557
 823348

RIO GRANDE BASIN

08313000 RIO GRANDE AT OTOWI BRIDGE, NEAR SAN ILDEFONSO, N. MEX.--Continued
 INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDI- MENT (MG/L) (80154)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN .002 MM (70337)	SUS. SED. FALL DIAM. % FINER THAN .004 MM (70338)	SUS. SED. FALL DIAM. % FINER THAN .016 MM (70340)	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70343)
JAN.										
03...	1530	5	1400	951	3590	--	--	--	8	20
11...	1207	1.5	1270	156	535	--	--	--	--	--
FEB.										
01...	1500	5.0	1340	577	2090	--	--	--	11	22
17...	1450	5.0	684	239	441	--	--	--	26	33
MAR.										
14...	1400	9.0	1130	1010	3080	--	--	--	6	9
APR.										
01...	1645	12.0	1590	1300	5580	--	--	--	10	13
MAY										
01...	1645	15.0	1070	610	1760	15	16	20	32	58
15...	1645	19.0	1540	1880	7820	7	9	10	20	39
31...	1451	18.0	858	182	422	36	41	53	--	--
JUNE										
27...	1134	20.0	834	215	484	31	36	43	--	--
JULY										
31...	1210	20.5	1170	758	2400	27	32	48	70	86
AUG.										
15...	0845	18.5	925	650	1620	--	--	--	--	--
28...	1705	20.5	918	350	868	24	24	28	35	43
OCT.										
12...	0900	13.5	884	18000	43000	28	34	55	89	98
23...	0915	11.5	340	200	184	--	--	--	--	--
NOV.										
22...	1053	4.5	390	86	91	--	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .250 MM (70344)	SUS. SED. FALL DIAM. % FINER THAN .500 MM (70345)	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM (70346)	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM (70347)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM (70332)	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM (70333)	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM (70334)	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM (70335)
JAN.									
03...	64	98	100	--	--	--	--	--	--
11...	--	--	--	--	20	39	87	100	--
FEB.									
01...	62	97	100	--	--	--	--	--	--
17...	56	96	100	--	--	--	--	--	--
MAR.									
14...	17	80	98	100	--	--	--	--	--
APR.									
01...	23	59	96	100	--	--	--	--	--
MAY									
01...	84	99	100	--	--	--	--	--	--
15...	63	87	100	--	--	--	--	--	--
31...	--	--	--	--	60	78	88	99	100
JUNE									
27...	--	--	--	--	53	67	96	99	100
JULY									
31...	100	--	--	--	--	--	--	--	--
AUG.									
15...	--	--	--	--	35	49	79	98	100
28...	91	100	--	--	--	--	--	--	--
OCT.									
12...	100	--	--	--	--	--	--	--	--
23...	--	--	--	--	36	--	--	--	--
NOV.									
22...	--	--	--	--	45	62	76	99	100

08317400 RIO GRANDE BELOW COCHITI DAM, N. MEX.
(Radiochemical network station)

LOCATION (revised).--Lat 35°37'04", long 106°19'26", in SW¼NE¼ sec. 17, T.16 N., R.6 E., Sandoval County, in Pueblo de Cochiti Grant, at gaging station, 1,000 ft (300 m) downstream from Cochiti Dam, 1.4 mi (2.3 km) northeast of Cochiti Pueblo, and at mile 1,589.0 (2,556.7 km). Prior to Nov. 14 at site 2.4 mi (3.9 km) downstream.

DRAINAGE AREA.--14,900 mi² (38,590 km²) approximately, including 2,940 mi² (7,610 km²) in closed basin in San Luis Valley, Colo.

PERIOD OF RECORD.--Chemical analyses: November 1971 to current year.

Water temperatures: July 1971 to current year.

Sediment records: July 1974 to current year.

REMARKS.--Temperature recorder inoperative from March 12-19.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)
MAR. 14...	2015	932	361	16.5	8.5

RADIOCHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	DIS- SOLVED GROSS ALPHA AS U-NAT, (UG/L) (80030)	SUS- PENDED GROSS ALPHA AS U-NAT, (UG/L) (80040)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L) (03515)	SUS- PENDED GROSS BETA AS CS-137 (PC/L) (03516)	DIS- SOLVED GROSS BETA AS AS SR90 /Y90 (PC/L) (80050)	SUS- PENDED GROSS BETA AS AS SR90 /Y90 (PC/L) (80060)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DIS- SOLVED NATURAL URANIUM (U) (UG/L) (22703)
MAR. 14...	2015	6.4	1.9	4.9	2.7	4.0	2.5	.06	2.9

WATER TEMPERATURE (DEG. C), RECORDER MAXIMUM, MINIMUM, AND MEAN, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JANUARY			FEBRUARY			MARCH			APRIL		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.0	1.0	2.0	3.0	1.5	2.0	7.0	4.5	5.0	12.0	11.5	11.5
2	1.0	0.5	0.5	3.0	2.0	2.5	7.0	7.0	7.0	11.5	10.5	11.0
3	0.5	0.0	0.5	3.5	2.5	3.0	7.0	7.0	7.0	10.5	10.0	10.0
4	0.5	0.0	0.0	4.0	3.0	3.0	7.0	7.0	7.0	9.5	8.5	9.0
5	0.5	0.0	0.0	4.0	3.0	3.0	7.0	7.0	7.0	9.0	8.0	8.5
6	0.5	0.0	0.5	3.0	2.5	2.5	7.5	7.0	7.5	9.5	8.0	8.5
7	0.5	0.0	0.5	3.0	2.0	2.5	8.0	7.5	7.5	10.5	9.0	10.0
8	0.5	0.0	0.5	2.0	1.5	1.5	8.0	7.5	8.0	11.5	10.0	10.5
9	0.5	0.0	0.5	1.5	1.0	1.5	8.0	7.5	7.5	11.5	10.5	11.0
10	1.0	0.0	0.5	1.5	1.0	1.0	8.0	7.0	7.0	11.5	11.0	11.0
11	1.5	0.5	1.0	1.5	1.0	1.0	7.5	7.0	7.0	11.0	10.5	10.5
12	1.5	1.0	1.0	1.5	1.0	1.0	---	---	---	10.5	9.5	10.0
13	1.5	1.0	1.0	2.0	1.5	1.5	---	---	---	10.5	10.0	10.0
14	1.5	1.0	1.0	3.0	2.0	2.5	---	---	---	10.5	10.0	10.5
15	2.0	1.5	1.5	4.5	3.0	4.0	---	---	---	11.0	10.0	10.5
16	2.5	1.5	2.0	5.0	4.0	4.5	---	---	---	12.0	10.5	11.0
17	2.5	2.0	2.0	5.5	5.0	5.0	---	---	---	13.5	11.0	12.0
18	2.5	2.0	2.5	5.5	5.0	5.5	---	---	---	14.0	13.0	13.0
19	3.5	2.5	3.0	5.5	5.0	5.0	---	---	---	14.0	13.0	13.5
20	4.0	3.5	3.5	5.5	5.0	5.0	11.0	10.0	10.5	13.5	13.0	13.5
21	4.0	3.5	3.5	5.5	5.0	5.0	11.0	10.0	10.5	13.5	12.5	13.0
22	4.5	3.5	4.0	5.5	5.0	5.0	10.5	10.0	10.5	13.0	12.0	12.5
23	4.5	3.5	4.0	5.0	4.5	4.5	10.0	9.5	9.5	13.5	12.5	13.0
24	3.5	2.5	3.0	4.5	4.0	4.5	9.5	9.0	9.5	15.0	13.5	14.0
25	3.0	2.0	2.5	4.5	4.0	4.0	9.5	9.0	9.0	15.5	14.0	15.0
26	2.5	1.5	2.0	4.5	3.5	4.0	10.0	9.0	9.5	15.5	15.0	15.5
27	2.0	2.0	2.0	4.5	4.0	4.5	10.5	9.5	10.0	16.0	15.5	15.5
28	2.5	2.0	2.5	4.5	4.5	4.5	11.0	10.0	10.5	15.5	14.0	15.0
29	2.5	2.0	2.5	---	---	---	12.0	10.5	11.5	14.0	13.0	14.0
30	2.0	1.5	2.0	---	---	---	12.5	11.5	12.0	14.5	13.0	13.5
31	2.5	1.5	2.0	---	---	---	12.5	12.0	12.0	---	---	---
MONTH	4.5	0	1.5	5.5	1.0	3.5	12.5	4.5	9.0	16.0	8.0	12.0

08317400 RIO GRANDE BELOW COCHITI DAM, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, JULY 1974 TO DECEMBER 1974

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	423	70	80	733	80	158	288	53	41
2	412	68	76	641	73	126	243	56	37
3	382	65	67	733	80	158	183	55	27
4	515	72	100	833	88	198	112	46	14
5	763	85	175	832	88	198	78	35	7.4
6	859	90	209	674	75	136	89	29	7.0
7	876	90	213	517	70	98	96	30	7.8
8	859	90	209	402	67	73	98	28	7.4
9	862	88	205	408	67	74	87	25	5.9
10	750	83	168	351	64	61	75	20	4.1
11	489	73	96	319	60	52	67	20	3.6
12	429	72	83	283	55	42	58	21	3.3
13	318	60	52	277	55	41	55	28	4.2
14	283	55	42	324	60	52	64	29	5.0
15	254	50	34	527	60	85	77	28	5.8
16	245	50	33	616	70	116	120	27	8.7
17	243	48	31	658	73	130	155	28	12
18	234	48	30	660	73	130	114	28	8.6
19	232	46	29	657	73	129	136	25	9.2
20	297	50	40	655	72	127	253	25	17
21	315	60	51	668	72	130	139	24	9.0
22	248	50	33	664	72	129	131	29	10
23	205	50	28	657	73	129	127	30	10
24	174	45	21	665	73	131	128	27	9.3
25	164	45	20	678	73	134	126	20	6.8
26	229	50	31	682	73	134	116	16	5.0
27	524	70	99	680	73	134	107	19	5.5
28	658	73	130	693	76	142	104	31	8.7
29	719	80	155	726	68	133	101	27	7.4
30	729	80	157	464	68	85	99	19	5.1
31	774	83	173	365	60	59	--	--	--
TOTAL	14464	--	2870	18042	--	3524	3626	--	312.8

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	98	18	4.8	435	26	31	458	14	17
2	96	16	4.1	451	22	27	438	10	12
3	100	18	4.9	459	21	26	437	16	19
4	99	21	5.6	444	19	23	466	32	40
5	99	21	5.6	445	19	23	481	35	45
6	134	22	8.0	444	20	24	493	36	48
7	233	27	17	435	13	15	513	35	48
8	210	25	14	427	17	20	529	36	51
9	157	20	8.5	427	21	24	531	38	54
10	152	20	8.2	428	23	27	521	21	30
11	227	26	16	437	24	28	502	33	45
12	296	30	24	444	23	28	493	32	43
13	337	31	28	449	35	42	483	33	43
14	329	31	28	452	13	16	483	21	27
15	298	30	24	466	20	25	475	30	38
16	251	27	18	471	22	28	475	35	45
17	222	25	15	465	21	26	483	35	46
18	219	25	15	448	19	23	488	39	51
19	212	25	14	431	21	24	494	17	23
20	205	25	14	419	25	28	492	13	17
21	206	25	14	418	21	24	498	11	15
22	202	25	14	418	20	23	501	11	15
23	202	25	14	418	18	20	496	12	16
24	206	25	14	419	32	36	489	11	15
25	223	26	16	428	27	31	449	11	13
26	242	27	18	428	28	32	414	60	67
27	256	25	17	425	51	59	420	11	12
28	259	20	14	434	31	36	428	7	8.1
29	262	18	13	458	22	27	411	6	6.7
30	268	19	14	464	18	23	402	6	6.5
31	330	29	26	--	--	--	394	7	7.4
TOTAL	6630	--	450.7	13187	--	819	14637	--	923.7

RIO GRANDE BASIN

08317400 RIO GRANDE BELOW COCHITI DAM, N. MEX.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, JULY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	SUS- PEN- DED SEDIM- ENT (MG/L) (80154)	SUS- PEN- DED SEDIM- ENT (T/DAY) (80155)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV, 12...	1634	6.0	418	19	21	89

LOCATION.--Lat 35°27'56", long 106°12'57", in SE₄SE₄ sec.5, T.14 N., R.7 E., Santa Fe County, in Mesita de Juana Lopez Grant, at gaging station, 0.6 mi (1.0 km) downstream from Galisteo Dam, 5.5 mi (8.8 km) northwest of Cerrillos, and at mile 11.2 (18.0 km).

PERIOD OF RECORD.--Specific conductance: July 1971 to current year.
Water temperatures: July 1971 to current year.
Sediment records: July 1971 to current year.

Specific conductance: Maximum, not determined; minimum, not determined.
Water temperatures: Maximum, not determined; minimum, not determined.
Sediment concentrations: Maximum daily, 64,800 mg/l July 20; minimum daily, no flow on many days.
Sediment discharge: Maximum daily, 42,000 tons (32,100 tonnes) Sept. 17; minimum daily, 0 tons (0 tonnes) on many days.

Specific conductance: Maximum, not determined; minimum, not determined.
Water temperatures: Maximum, not determined; minimum, not determined.
Sediment concentrations: Maximum daily, 73,100 mg/l July 17, 1972; minimum daily, no flow on many days each year.
Sediment discharge: Maximum daily 111,000 tons (101,000 tonnes) July 17; minimum daily, 0 tons (0 tonnes) on many days each year.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE=DAILY)

[illegible]

RIO GRANDE BASIN

08317950 GALISTEO CREEK BELOW GALISTEO DAM, N. MEX.--Continued

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	24.5	---	---	---	---	---	12.0	---
2	---	---	---	---	22.0	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	29.0	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	12.5	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	0.5
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	25.0	---	---	---	---	---
17	---	---	---	---	---	---	---	---	12.0	---	---	---
18	---	---	---	---	---	---	27.0	---	---	---	---	---
19	---	---	15.0	---	---	---	16.0	---	13.0	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	13.0	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	13.0	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	25.5	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	19.0	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.4	300	1.1	1.7	400	1.8	.72	180	.35
2	1.5	300	1.2	1.5	330	1.3	.31	100	.08
3	.80	200	.43	1.1	260	.77	.16	50	.02
4	1.0	250	.68	1.1	260	.77	.01	50	0
5	1.2	275	.89	1.1	260	.77	0	0	0
6	1.4	300	1.1	1.0	250	.68	0	0	0
7	1.3	290	1.0	.90	200	.49	0	0	0
8	1.3	290	1.0	.80	190	.41	0	0	0
9	1.4	300	1.1	1.2	275	.69	0	0	0
10	1.3	290	1.0	2.1	520	2.9	5.5	4570	97
11	1.2	275	.89	2.5	670	4.5	2.7	2690	20
12	1.3	290	1.0	1.9	450	2.3	1.4	1300	4.9
13	1.3	290	1.0	2.4	650	4.2	1.3	800	2.8
14	1.5	300	1.2	3.2	800	6.9	1.1	260	.77
15	1.9	450	2.3	2.3	600	3.7	.98	190	.50
16	2.0	500	2.7	2.0	500	2.7	.72	175	.34
17	2.5	670	4.5	2.3	600	3.7	.72	175	.34
18	4.0	1050	11	2.7	700	5.1	.72	175	.34
19	2.2	550	3.3	2.2	550	3.3	1.1	340	1.0
20	2.1	520	2.9	3.0	750	6.1	.85	440	1.0
21	2.6	680	4.8	3.3	820	7.3	.58	432	1.4
22	1.7	400	1.8	3.3	820	7.3	.25	200	.14
23	.92	200	.50	3.1	800	6.7	.13	100	.04
24	.86	190	.44	2.7	700	5.1	.10	90	.02
25	.80	180	.39	2.5	670	4.5	.07	80	.02
26	1.0	250	.68	1.4	608	2.3	.05	70	.01
27	2.7	700	5.1	1.4	400	1.5	.05	50	.01
28	1.1	260	.77	.98	200	.53	.03	50	0
29	1.5	330	1.3	--	--	--	0	0	0
30	1.8	300	1.5	--	--	--	0	0	0
31	1.7	400	1.8	--	--	--	0	0	0
TOTAL	49.28	--	59.37	55.68	--	88.51	19.55	--	131.08

08317950 GALISTEO CREEK BELOW GALISTEO DAM, N. MEX.--Continued
 SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	0	0	0	12	1840	72			
2	1.6	469	4.5	2.0	980	5.3			
3	.78	347	.76	.50	510	.69			
4	.21	216	.24	.02	115	.02			
5	.40	135	.15	0	0	0			
6	.41	121	.16	0	0	0			
7	0	0	0	0	0	0			
8	0	0	0	0	0	0			
9	.09	140	.08	0	0	0			
10	.03	50	.02	0	0	0			
11	.07	109	.09	0	0	0			
12	.02	39	.01	0	0	0			
13	0	0	0	0	0	0			
14	0	0	0	0	0	0			
15	.06	113	.08	0	0	0			
16	.09	78	.05	0	0	0			
17	.05	63	.05	0	0	0			
18	.03	42	.01	0	0	0			
19	.03	48	.01	0	0	0			
20	0	0	0	0	0	0			
21	0	0	0	0	0	0			
22	0	0	0	0	0	0			
23	0	0	0	0	0	0			
24	0	0	0	0	0	0			
25	.12	150	.09	0	0	0			
26	.12	172	.15	0	0	0			
27	0	0	0	0	0	0			
28	0	0	0	0	0	0			
29	.01	24	0	0	0	0			
30	1.1	315	8.0	0	0	0			
31	--	--	--	0	0	0			
TOTAL	5.22	--	14.45	14.52	--	78.01	0	--	0

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	.05	325	.04	0	0	0
5	0	0	0	18	47100	3410	0	0	0
6	0	0	0	2.0	2390	.3	0	0	0
7	40	31900	14200	.31	680	.57	0	0	0
8	1.4	23400	135	.03	53	.14	0	0	0
9	0	0	0	.21	390	.33	0	0	0
10	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0
12	1.0	11100	164	0	0	0	0	0	0
13	1.2	4280	289	0	0	0	0	0	0
14	62	61500	21300	0	0	0	0	0	0
15	25	62700	4820	0	0	0	.79	6630	113
16	2.1	36600	375	0	0	0	24	38100	14000
17	1.6	34000	147	0	0	0	147	63100	42000
18	66	58600	24600	0	0	0	4.6	600	7.5
19	15	50000	1890	0	0	0	1.1	460	1.4
20	24	64800	7270	0	0	0	30	9460	2970
21	23	50400	3450	0	0	0	4.4	4480	162
22	10	16500	446	0	0	0	.30	600	.49
23	3.2	4700	41	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0
25	0	0	0	24	17500	7330	0	0	0
26	4.4	11800	1120	4.2	15500	349	0	0	0
27	6.5	42000	873	96	28300	31800	0	0	0
28	.85	9000	21	30	17000	1720	0	0	0
29	34	9490	871	5.1	9130	124	0	0	0
30	42	36900	7560	.98	2000	5.3	0	0	0
31	0	0	0	0	0	0	--	--	--
TOTAL	363.25	--	89572	180.88	--	44752.38	212.19	--	59254.39

RIO GRANDE BASIN

08317950 GALISTEO CREEK BELOW GALISTEO DAM, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	0	0	0	7.1	1680	32	.40	240	.26
2	0	0	0	4.3	840	9.8	.50	250	.34
3	0	0	0	3.2	540	4.7	.50	250	.34
4	0	0	0	2.9	500	3.9	.50	250	.34
5	0	0	0	2.9	410	3.2	.50	250	.34
6	1.1	1790	77	1.3	400	1.4	.47	245	.31
7	12	15200	527	.98	300	.79	.45	245	.30
8	3.7	2200	22	1.1	330	.98	.42	245	.28
9	1.5	600	2.4	1.6	360	1.6	.40	240	.26
10	1.0	300	.81	.98	300	.79	.40	240	.26
11	84	30600	31600	.72	280	.54	.43	245	.28
12	40	28000	6010	.61	260	.43	.42	239	.92
13	3.0	1340	11	.72	270	.52	.40	240	.26
14	1.5	599	2.4	.61	260	.43	.37	230	.23
15	1.2	345	1.1	.61	260	.43	.40	240	.26
16	1.0	300	.81	.61	260	.43	.45	245	.30
17	.85	250	.57	.50	250	.34	.50	250	.34
18	.23	150	.09	.50	250	.34	.45	245	.30
19	.13	368	.31	.40	240	.26	.50	250	.34
20	.10	400	.11	.40	240	.26	.50	250	.34
21	1.5	1240	19	.50	250	.34	.60	260	.42
22	1.6	1650	7.1	.72	270	.52	.60	260	.42
23	56	17200	9130	.50	250	.34	.43	245	.28
24	9.0	9190	544	.50	250	.34	.33	235	.21
25	2.0	2200	12	.49	245	.32	.23	220	.14
26	1.0	1000	2.7	.48	245	.32	.35	235	.22
27	60	36600	7940	.47	245	.31	.40	240	.26
28	20	1550	84	.44	240	.29	.40	240	.26
29	7.1	3100	59	.30	230	.19	.45	245	.30
30	19	10400	606	.35	230	.22	.48	250	.32
31	12	4300	139				.40	240	.26
TOTAL	340.51	--	56798.40	36.79	--	66.33	13.63	--	9.69

CAL YR 1974 TOTAL WATER DISCHARGE (CFS-DAYS)
 CAL YR 1974 TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)

1291.50
 250824.61

WTR YR 1974 TOTAL WATER DISCHARGE (CFS-DAYS)
 WTR YR 1974 TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)

972.12
 194061.93

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDED SEDIM- ENT (MG/L) (80154)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN (70337)	SUS. SED. FALL DIAM. % FINER THAN (70338)	SUS. SED. FALL DIAM. % FINER THAN (70340)	SUS. SED. FALL DIAM. % FINER THAN (70342)
JULY									
18...	1120	--	10	45400	1260	58	79	99	100
18...	1245	27.0	8.4	36400	826	66	84	100	--
19...	0945	16.0	19	31200	1600	61	81	98	100
AUG.									
06...	1330	29.0	2.0	2280	12	79	93	100	--

LOCATION.--Lat 35°23'24", long 106°32'03", in NE¼ sec. 5, T.13 N., R.4 E., Sandoval County, at gaging station 0.8 mi (1.3 km) downstream from Jemez Canyon Dam, 2.0 mi (3.2 km) (revised) upstream from mouth, and 6 mi (9.6 km) north of Bernalillo.

PERIOD OF RECORD.--Chemical analyses: February 1966 to current year.
Sediment records: March 1974 to current year.

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED TAS- SIUM (K) (MG/L) (00935)
JAN.									
14...	1615	140	28	--	--	74	11	280	14
21...	1200	41	--	--	--	--	--	--	--
28...	1300	10	44	20	0	96	15	320	15
FEB.									
04...	1245	3,5	--	--	--	--	--	--	--
11...	1115	28	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
19...	0920	6,6	41	--	--	74	13	300	14
25...	1425	20	--	--	--	--	--	--	--
MAR.									
11...	1145	110	--	--	--	--	--	--	--
18...	1030	28	37	--	--	48	7,8	170	12
25...	1140	70	--	--	--	--	--	--	--
APR.									
08...	1205	44	--	--	--	--	--	--	--
15...	1010	52	--	--	--	--	--	--	--
22...	1150	31	32	--	--	47	6,6	110	8,9
29...	1200	84	--	--	--	--	--	--	--
MAY									
06...	1215	80	--	--	--	--	--	--	--
13...	1215	60	28	--	--	43	5,7	98	8,8
20...	1050	6,2	--	--	--	--	--	--	--
AUG.									
05...	1145	23	30	--	--	67	9,7	230	13
SEP.									
23...	1350	60	30	--	--	140	15	400	18
OCT.									
21...	1500	17	38	20	--	95	9,9	250	15
28...	1445	36	--	--	--	--	--	--	--
NOV.									
25...	1600	25	16	--	--	79	9,5	220	14
DEC.									
09...	1520	12	37	--	--	88	12	270	14
23...	1120	9,3	--	--	--	--	--	--	--

[illegible]

RIO GRANDE BASIN

08329000 JEMEZ RIVER BELOW JEMEZ CANYON DAM, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	HARD- NESS (CA, MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED BORON (8) (UG/L) (01020)
JAN.								
14...	230	0	8.0	1700	7.9	5.5	--	530
21...	--	--	--	1570	--	6.0	--	--
28...	300	5	8.0	2050	8.1	4.0	--	1700
FEB.								
04...	--	--	--	1510	--	5.0	--	--
11...	--	--	--	1380	--	.0	--	--
15...	--	--	--	2070	8.4	--	--	--
19...	240	0	8.5	1840	8.2	.5	--	1500
25...	--	--	--	1680	--	9.0	--	--
MAR.								
11...	--	--	--	3090	--	5.0	--	--
18...	150	0	6.0	1120	8.2	5.0	--	930
25...	--	--	--	667	--	--	--	--
APH.								
08...	--	--	--	708	--	1.5	--	--
15...	--	--	--	829	--	--	--	--
22...	140	0	4.0	808	8.3	6.0	--	660
29...	--	--	--	564	8.1	10.5	180	--
MAY								
06...	--	--	--	648	8.3	14.0	84	--
13...	130	0	3.7	750	8.1	20.0	--	640
20...	--	--	--	1190	8.3	6.5	210	--
AUG.								
05...	210	0	7.0	1510	7.7	24.5	--	1100
SEP.								
23...	410	200	8.6	2580	7.9	23.5	--	--
OCT.								
21...	280	68	6.5	1750	8.1	21.0	--	1300
28...	--	--	--	1860	7.9	15.0	--	--
NOV.								
25...	240	0	6.2	1480	8.1	8.0	--	--
DEC.								
09...	270	14	7.2	1790	8.3	5.0	--	1400
23...	--	--	--	1850	--	1.5	--	--

RADIOCHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	DIS- SOLVED GROSS ALPHA AS U=NAT. (UG/L) (80030)	SUS- PENDED GROSS ALPHA AS U=NAT. (UG/L) (80040)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L) (03515)	SUS- PENDED GROSS BETA AS CS-137 (PC/L) (03516)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L) (80050)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L) (80060)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DIS- SOLVED NATURAL URANIUM (U) (UG/L) (22703)
DEC.									
23...	1125	25	22	23	14	18	12	.17	4.1

RIO GRANDE BASIN

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08329000 JEMEZ RIVER BELOW JEMEZ CANYON DAM, N. MEX.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDIM- ENT CHARGE (MG/L) (80154)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN ,002 MM (70337)	SUS. SED. FALL DIAM. % FINER THAN ,004 MM (70338)
MAR.							
04...	1410	11.0	36	3410	331	--	--
11...	1145	5.0	110	6930	2060	--	--
18...	1030	5.0	28	1110	84	40	46
25...	1140	--	70	2630	497	--	--
APR.							
01...	1040	8.5	112	1220	369	--	--
08...	1205	1.5	44	340	40	--	--
15...	1020	--	52	9060	1270	--	--
22...	1150	6.0	31	2910	244	23	28
29...	1200	10.5	84	2300	522	--	--
MAY							
06...	1200	14.0	80	461	100	--	--
13...	1215	20.0	60	5440	881	--	--
20...	1050	6.5	6.2	1070	18	--	--
AUG.							
05...	1145	24.5	23	10600	658	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN ,016 MM (70340)	SUS. SED. FALL DIAM. % FINER THAN ,062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN ,125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN ,250 MM (70344)	SUS. SED. FALL DIAM. % FINER THAN ,500 MM (70345)	SUS. SED. FALL DIAM. % FINER THAN ,062 MM (70331)
MAR.						
04...	--	56	79	98	100	--
11...	--	57	86	99	100	--
18...	56	62	88	100	--	--
25...	--	--	--	--	--	--
APR.						
01...	--	--	--	--	--	--
08...	--	--	--	--	--	--
15...	--	--	--	--	--	--
22...	37	66	95	100	--	--
29...	--	--	--	--	--	--
MAY						
06...	--	--	--	--	--	--
13...	--	--	--	--	--	60
20...	--	--	--	--	--	--
AUG.						
05...	--	--	--	--	--	91

08329100 BERNALILLO FLOODWATER RETARDING RESERVOIR NO. 1 (PIEDRA LISA ARROYO), NEAR BERNALILLO, N. MEX.

LOCATION.--Lat 35°18'50", long 106°31'44", Sandoval County, in Bernalillo Grant, at out flow pipe of reservoir, 0.3 mi (0.5 km) east of intersection of State Highways 44 and 422, and 1.5 mi (2.4 km) northeast of Bernalillo.

DRAINAGE AREA.--4.1 mi² (10.6 km²), of which 2.0 mi² (5.2 km²) has contouring, pitting and small dams to reduce surface runoff.

PERIOD OF RECORD.--Sediment records: July 1956 to June 1974 (discontinued).

REMARKS.--No flow Jan. 1 to June 30.

RIO GRANDE BASIN

08330000 RIO GRANDE AT ALBUQUERQUE, N. MEX.

LOCATION.--Lat 35°05'21", long 106°40'48", Bernalillo County, in Atrisco Grant, at gaging station on U.S. Highway 66 at Albuquerque, and at mile 1,540.0 (2,477.9 km).

DRAINAGE AREA.--17,440 mi² (45,170 km²), approximately, including 2,940 mi² (7,610 km²) in closed basin in San Luis Valley, Colo.

PERIOD OF RECORD.--Specific conductance: October 1969 to current year.

Water temperatures: October 1969 to current year.

Sediment records: May 1969 to September 1969 (partial-record station), October 1969 to current year.

EXTREMES:

Current year:

Specific conductance: Maximum daily, 1,840 micromhos Oct. 12; minimum daily, 238 micromhos Sept. 21.

Water temperatures: Maximum, 33.0°C Aug. 21, Sept. 3; minimum, 1.0°C Jan. 2, 3.

Sediment concentrations: Maximum daily, 29,500 mg/l Oct. 12; minimum daily, 89 mg/l June 1.

Sediment discharge: Maximum daily, 42,500 tons (38,600 tonnes) Oct. 12; minimum daily, 3.1 tons (2.8 tonnes) Sept. 30.

Period of record:

Specific conductance: Maximum, 1,840 micromhos Oct. 12, 1974; minimum daily 133 micromhos July 21, 1971.

Water temperatures: Maximum, 34.0°C July 12, 1970; minimum, freezing point Nov. 1, 1970, Jan. 3-5, 1971.

Sediment concentrations: Maximum daily, 45,500 mg/l July 21, 1971; minimum daily, no flow on many days in 1971 and 1972.

Sediment discharge: Maximum daily, 275,000 tons (249,000 tonnes) July 27, 1971; minimum daily; 0 tons (0 tonnes) on many days in 1971 and 1972.

REMARKS.--Additional sediment total discharge determination were made bi-weekly when needed.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	347	455	439	410	392	394	400	392	423	---	595	530
2	351	444	440	392	405	398	394	475	427	---	583	515
3	358	452	435	380	458	391	404	518	433	---	563	510
4	360	408	440	376	432	384	412	550	440	485	573	518
5	357	497	443	365	413	378	418	875	445	483	570	518
6	368	498	443	372	407	380	394	463	461	---	547	522
7	407	447	441	395	397	390	342	464	460	454	551	533
8	384	425	447	394	396	392	322	445	463	472	570	524
9	408	447	442	380	395	389	360	438	---	480	538	508
10	---	470	404	412	400	391	338	452	---	472	551	560
11	424	542	647	445	396	375	335	458	---	465	565	508
12	422	485	610	452	400	376	394	455	---	1840	555	497
13	430	682	493	470	399	374	350	455	---	593	537	508
14	445	460	445	480	405	380	397	465	---	535	527	535
15	475	483	441	480	396	376	412	465	485	535	530	523
16	475	485	440	490	401	374	417	470	475	545	545	497
17	475	470	445	494	385	378	432	475	487	497	537	506
18	472	485	467	505	381	372	394	450	520	495	537	523
19	446	485	470	510	392	368	481	423	487	497	523	523
20	442	470	475	508	398	353	480	405	477	497	545	527
21	440	472	473	500	380	347	435	378	238	490	537	518
22	440	470	434	495	785	354	440	378	449	485	547	503
23	435	458	422	790	394	355	435	390	473	480	515	527
24	442	440	425	775	398	362	436	445	---	487	547	507
25	435	440	432	780	388	350	446	374	475	525	543	507
26	438	443	450	780	391	346	446	370	480	490	528	497
27	452	442	463	781	392	346	449	405	485	489	532	385
28	449	439	462	480	392	346	449	355	489	537	525	497
29	422	---	447	438	396	358	352	425	489	532	517	480
30	443	---	445	412	392	375	421	525	---	455	513	478
31	469	---	430	---	392	---	685	419	---	895	---	507
MONTH	424	471	458	498	411	372	415	453	---	563	545	509
YEAR	MAX	1840	MIN	238	MEAN	464						

RIO GRANDE BASIN
08330000 RIO GRANDE AT ALBUQUERQUE, N. MEX.--Continued

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	3.0	4.0	6.0	12.0	13.0	17.0	25.0	30.0	31.0	---	12.0	5.0
2	1.0	3.0	7.0	11.0	13.0	19.0	27.0	29.0	30.0	---	11.0	6.0
3	1.0	4.0	7.0	10.0	15.0	17.0	27.0	28.0	33.0	---	8.0	6.0
4	---	5.0	7.0	11.0	15.0	19.0	25.0	27.0	32.0	19.0	11.0	6.0
5	3.0	4.0	7.0	11.0	13.0	19.0	23.0	28.0	31.0	21.0	12.0	5.0
6	2.0	4.0	6.0	12.0	15.0	19.0	25.0	29.0	32.0	---	12.0	5.0
7	2.0	4.0	8.0	10.0	17.0	18.0	24.0	30.0	32.0	16.0	13.0	6.0
8	2.0	3.0	7.0	10.0	17.0	18.0	28.0	30.0	30.0	19.0	12.0	4.0
9	3.0	5.0	8.0	10.0	18.0	17.0	23.0	31.0	16.0	20.0	11.0	5.0
10	3.0	4.0	5.0	8.0	19.0	19.0	24.0	28.0	---	16.0	8.0	5.0
11	3.0	5.0	8.0	10.0	13.0	20.0	27.0	27.0	---	19.0	11.0	6.0
12	4.0	5.0	5.0	11.0	18.0	20.0	27.0	29.0	---	15.0	12.0	5.0
13	3.0	5.0	8.0	10.0	18.0	20.0	22.0	31.0	---	13.0	11.0	6.0
14	3.0	4.0	12.0	10.0	18.0	20.0	21.0	31.0	---	14.0	12.0	5.0
15	3.0	5.0	12.0	9.0	17.0	26.0	25.0	30.0	16.0	17.0	11.0	5.0
16	4.0	4.0	13.0	---	18.0	21.0	21.0	32.0	21.0	17.0	13.0	4.0
17	4.0	4.0	13.0	9.0	19.0	20.0	23.0	32.0	22.0	20.0	10.0	5.0
18	3.0	5.0	10.0	12.0	15.0	21.0	22.0	28.0	24.0	20.0	12.0	4.0
19	3.0	5.0	12.0	10.0	18.0	26.0	23.0	28.0	25.0	21.0	11.0	4.0
20	4.0	5.0	9.0	12.0	17.0	27.0	26.0	31.0	25.0	12.0	11.0	5.0
21	3.0	6.0	12.0	11.0	17.0	24.0	19.0	33.0	24.0	10.0	10.0	6.0
22	3.0	6.0	---	10.0	16.0	29.0	22.0	31.0	17.0	13.0	10.0	4.0
23	2.0	5.0	11.0	11.0	16.0	20.0	24.0	32.0	18.0	14.0	11.0	4.0
24	4.0	6.0	13.0	10.0	15.0	20.0	26.0	30.0	---	13.0	8.0	3.0
25	4.0	6.0	11.0	12.0	19.0	22.0	26.0	28.0	20.0	13.0	8.0	2.0
26	3.0	5.0	---	11.0	19.0	22.0	28.0	30.0	19.0	13.0	7.0	2.0
27	3.0	6.0	12.0	12.0	16.0	21.0	27.0	27.0	21.0	10.0	7.0	3.0
28	3.0	6.0	13.0	14.0	17.0	27.0	32.0	29.0	22.0	12.0	6.0	3.0
29	4.0	---	12.0	19.0	17.0	28.0	27.0	30.0	19.0	10.0	6.0	3.0
30	4.0	---	14.0	12.0	15.0	23.0	29.0	32.0	---	11.0	7.0	3.0
31	3.0	---	11.0	---	15.0	---	28.0	32.0	---	9.0	---	3.0
MONTH	3.0	5.0	9.5	11.0	16.5	21.5	25.0	30.0	---	15.0	10.0	4.5
YEAR	MAX	33.0	MIN	1.0	MEAN	14.5						

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1950	3100	16300	1300	1800	6320	568	490	751
2	1930	3200	16700	1300	1460	5120	604	530	864
3	1760	3750	17800	1360	1380	5070	698	570	1070
4	1510	2520	10300	1180	1000	3190	728	380	747
5	1320	1600	5700	843	940	2140	699	504	951
6	1300	1520	5340	785	760	1610	692	667	1250
7	1410	1660	6320	681	830	1530	596	455	732
8	1390	2000	7510	668	710	1280	597	451	727
9	1510	2420	9870	694	750	1410	586	585	926
10	1690	2410	11000	681	840	1540	800	1620	3500
11	1630	2410	10600	759	1110	2270	759	962	1970
12	1610	1810	7870	858	1390	3220	759	832	1710
13	1470	1950	7740	814	1350	2970	768	743	1540
14	1510	2380	9700	694	970	1820	691	634	1180
15	1530	1750	7230	843	1130	2570	755	707	1440
16	1430	1710	6600	858	1050	2430	828	516	1150
17	1360	1750	6430	800	860	1860	968	902	2360
18	1410	2060	7840	720	700	1360	1070	1470	4250
19	1340	1790	6480	632	600	1020	973	960	2520
20	1380	1780	6630	694	760	1420	848	1180	2700
21	1410	1670	6360	652	840	1480	785	703	1490
22	1430	1610	6220	635	790	1350	853	794	1830
23	1380	2230	8310	604	760	1240	987	623	1660
24	1490	2130	8570	604	700	1140	1090	897	2640
25	1510	1550	6320	571	920	1420	1180	1820	5800
26	1430	1450	5600	599	1350	2180	1250	824	2780
27	1390	1780	6680	600	830	1340	1220	668	2200
28	1450	1970	7710	570	470	723	1180	865	2760
29	1380	1620	6040	--	--	--	1220	810	2670
30	1380	2050	7640	--	--	--	1160	696	2180
31	1410	2000	7610	--	--	--	1160	906	2840
TOTAL	46100	--	261020	21999	--	61023	27072	--	61188

RIO GRANDE BASIN

08330000 RIO GRANDE AT ALBUQUERQUE, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1230	783	2600	967	420	1100	371	89	89
2	1250	957	3230	974	520	1370	370	127	127
3	1210	1390	4540	856	660	1530	394	130	138
4	1230	1230	4080	809	600	1310	389	151	159
5	1230	1120	3720	760	530	1090	355	130	125
6	1180	685	2180	790	390	832	293	113	89
7	918	768	1900	916	382	945	345	102	95
8	687	513	952	1070	500	1440	503	400	543
9	558	509	767	1030	950	2640	551	1030	1530
10	508	446	612	962	610	1580	894	510	1230
11	548	531	786	844	600	1370	916	505	1250
12	457	448	553	553	450	672	766	328	678
13	439	235	279	566	800	1220	732	267	528
14	496	1000	1340	552	340	507	700	523	988
15	440	687	816	530	180	258	670	199	360
16	349	550	518	814	460	1010	640	237	410
17	243	400	262	1160	530	1660	628	340	577
18	185	330	165	978	250	660	648	200	350
19	134	310	112	733	250	495	653	200	353
20	136	330	121	694	290	543	589	340	541
21	150	450	182	566	410	627	470	410	520
22	169	420	192	465	346	434	480	260	337
23	211	400	228	463	300	375	632	560	956
24	300	510	413	439	1260	1490	520	280	393
25	319	480	413	388	830	870	528	240	342
26	347	450	422	407	220	242	623	190	320
27	388	450	471	419	140	158	586	234	370
28	574	2950	4570	367	100	99	603	242	394
29	798	800	1720	356	130	125	385	201	209
30	815	600	1320	360	155	151	255	222	153
31	--	--	--	378	92	94	--	--	--
TOTAL	17499	--	39464	21166	--	26897	16489	--	14154
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	150	118	48	805	3860	8390	224	315	191
2	78	300	63	737	4000	7960	90	263	64
3	62	309	52	442	1790	2140	60	172	28
4	42	144	16	584	2850	4490	65	164	29
5	39	129	14	552	2660	3960	50	107	14
6	261	311	219	602	2880	4680	70	97	18
7	644	322	560	515	1470	2040	40	188	20
8	668	298	537	325	720	632	30	97	7.9
9	1300	2060	7860	221	550	328	15	113	4.6
10	1040	520	1460	132	348	124	12	133	4.3
11	800	460	994	118	265	84	30	130	11
12	273	430	317	112	194	59	45	136	17
13	681	1130	2770	67	99	18	45	115	14
14	261	753	627	51	96	13	30	131	11
15	198	530	283	46	160	20	30	264	21
16	264	980	699	42	175	20	99	157	42
17	145	640	251	56	365	65	75	115	23
18	149	500	201	175	400	189	15	2600	105
19	101	150	41	243	460	302	10	1200	32
20	156	1660	957	299	540	436	30	480	39
21	108	580	169	334	507	457	221	2650	1580
22	119	1250	402	364	295	419	75	3960	802
23	78	800	168	540	940	1370	15	640	26
24	33	220	20	398	1800	1930	5.0	304	4.1
25	20	160	8.6	440	849	1040	50	454	61
26	18	240	12	542	710	1040	30	317	26
27	20	340	18	625	3050	5150	30	212	17
28	22	158	9.4	826	3300	7360	25	175	12
29	155	5000	2090	879	9380	25100	15	127	5.1
30	390	4530	5610	887	9450	22600	10	114	3.1
31	613	16200	26800	411	2550	3730	--	--	--
TOTAL	8888	--	53276.0	12370	--	106146	1541.0	--	3232.1

08330000 RIO GRANDE AT ALBUQUERQUE, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	25	120	8.1	285	3720	2860	453	650	795
2	20	122	6.6	317	2970	2540	447	600	724
3	30	115	9.3	365	2900	2370	433	490	573
4	40	125	14	405	1640	1790	440	475	564
5	35	135	13	408	1420	1560	500	725	979
6	50	373	50	416	1110	1250	540	740	1080
7	61	540	89	396	1120	1200	540	690	1010
8	81	453	99	433	1710	2210	574	800	1240
9	97	387	101	532	1720	2540	586	995	1570
10	120	339	103	425	1110	1270	574	760	1180
11	137	3040	2990	424	1130	1290	540	610	889
12	350	29500	42500	458	1050	1300	490	499	660
13	276	14800	11000	465	1030	1290	510	560	771
14	171	6400	2950	439	1000	1190	440	840	998
15	183	3940	1950	464	800	1000	406	750	822
16	148	2000	799	489	880	1160	406	590	647
17	114	464	143	500	810	1090	470	607	770
18	115	428	133	510	700	964	470	680	863
19	116	395	124	500	610	824	480	667	864
20	116	380	119	440	630	748	490	746	987
21	126	281	96	423	790	902	518	650	909
22	135	149	54	406	620	680	563	675	1030
23	160	407	176	389	610	641	544	701	1030
24	136	138	51	393	520	552	488	720	949
25	227	2040	1270	403	475	517	445	450	541
26	182	420	206	420	570	646	475	600	770
27	254	1880	1730	420	490	556	401	2030	2200
28	330	2910	2590	431	400	465	382	1020	1050
29	313	2560	2160	437	480	566	406	550	603
30	365	1930	1900	446	800	963	449	505	612
31	316	4030	3440	--	--	--	431	447	520
TOTAL	4829	--	76874.0	12839	--	36934	14891	--	28200
CAL YR 1974	TOTAL WATER DISCHARGE (CFS-DAYS)								205683
CAL YR 1974	TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)								768408.1
WTR YR 1974	TOTAL WATER DISCHARGE (CFS-DAYS)								264551
WTR YR 1974	TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)								1045303.3

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDED SEDIM- ENT DIS- CHARGE (MG/L) (80154)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY) (80155)	SUS, SED, FALL DIAM. % FINER THAN .002 MM (70337)	SUS, SED, FALL DIAM. % FINER THAN .004 MM (70338)	SUS, SED, FALL DIAM. % FINER THAN .016 MM (70340)	SUS, SED, FALL DIAM. % FINER THAN .062 MM (70342)
JAN.									
14...	1235	5.0	1610	2920	12700	3	4	5	13
28...	1530	8.0	1580	2310	9850	--	--	--	9
FEB.									
11...	1420	5.0	843	1120	2550	14	17	21	30
25...	1600	7.0	575	1310	2030	--	--	--	7
MAR.									
11...	1445	8.0	713	1120	2160	19	22	26	35
25...	1450	--	1160	1230	3850	5	7	9	22
APR.									
15...	1530	14.0	480	669	867	24	32	39	43
29...	1600	19.0	850	819	1080	15	18	23	35
MAY									
01...	1500	20.0	946	369	942	34	38	44	61
17...	1600	26.0	1250	204	688	--	--	--	--
JULY									
01...	1230	25.0	155	75	31	35	38	44	58
17...	1200	23.0	175	596	282	74	87	94	--
AUG.									
05...	1545	20.5	560	1400	2120	61	70	87	90
26...	1145	20.0	452	453	553	49	59	70	77
OCT.									
12...	1500	15.0	460	41200	51200	67	83	98	98
NOV.									
11...	1100	11.5	425	1000	1150	50	59	75	78
DEC.									
02...	1415	6.5	455	604	742	34	45	65	70
23...	1500	5.5	562	548	832	41	46	66	--

RIO GRANDE BASIN

08330000 RIO GRANDE AT ALBUQUERQUE, N. MEX.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	SUS. SED. FALL DIAM. % FINER THAN ,125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN ,250 MM (70344)	SUS. SED. FALL DIAM. % FINER THAN ,500 MM (70345)	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM (70346)	SUS. SED. SIEVE DIAM. % FINER THAN ,062 MM (70331)	SUS. SED. SIEVE DIAM. % FINER THAN ,125 MM (70332)	SUS. SED. SIEVE DIAM. % FINER THAN ,250 MM (70333)	SUS. SED. SIEVE DIAM. % FINER THAN ,500 MM (70334)
JAN.								
14...	27	91	100	--	--	--	--	--
28...	37	91	98	100	--	--	--	--
FEB.								
11...	45	88	99	100	--	--	--	--
25...	16	56	97	100	--	--	--	--
MAR.								
11...	58	93	100	--	--	--	--	--
25...	39	75	98	100	--	--	--	--
APR.								
15...	48	82	99	100	--	--	--	--
29...	48	78	100	--	--	--	--	--
MAY								
01...	79	98	100	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
JULY								
01...	73	98	100	--	--	--	--	--
17...	--	--	--	--	96	97	100	--
AUG.								
05...	94	100	--	--	--	--	--	--
26...	83	99	100	--	--	--	--	--
OCT.								
12...	100	--	--	--	--	--	--	--
NOV.								
11...	82	98	100	--	--	--	--	--
DEC.								
02...	76	94	100	--	--	--	--	--
23...	--	--	--	--	76	82	96	100

PARTICLE SIZE OF SURFACE BED MATERIAL, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDED SEDIM- ENT CHARGE (MG/L) (80154)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY) (80155)	BED MAT. FALL DIAM. % FINER THAN ,062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN ,125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN ,250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN ,500 MM (80161)
JAN.								
14...	1235	1610	2920	12700	1	2	51	96
28...	1530	1580	2310	9850	1	3	53	98
FEB.								
11...	1420	843	1120	2550	1	2	28	88
25...	1600	575	1310	2030	1	8	59	97
MAR.								
11...	1445	713	1120	2160	1	4	46	87
25...	1450	1160	1230	3850	1	2	27	86
APR.								
15...	1530	480	669	867	1	2	47	96
29...	1600	850	819	1880	3	11	54	97
MAY								
01...	1500	946	369	942	0	2	46	92
17...	1600	1250	204	688	3	10	57	95
JULY								
01...	1230	155	75	31	1	3	51	95
AUG.								
05...	1545	560	1400	2120	1	5	65	91
26...	1145	452	453	553	1	2	44	89
NOV.								
11...	1100	425	1000	1150	1	2	45	92
DEC.								
02...	1415	455	604	742	1	4	31	74
23...	1500	562	548	832	1	1	45	87

RIO GRANDE BASIN

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08330000 RIO GRANDE AT ALBUQUERQUE, N. MEX.--Continued

PARTICLE SIZE OF SURFACE BED MATERIAL, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN 2.00 MM (80163)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM (80173)
JAN.							
14...	100	--	--	--	--	--	--
20...	100	--	--	--	--	--	--
FEB.							
11...	98	100	--	--	--	--	--
25...	100	--	--	--	--	--	--
MAR.							
11...	95	--	99	99	99	100	--
25...	98	--	98	99	100	--	--
APR.							
15...	100	--	--	--	--	--	--
29...	100	--	--	--	--	--	--
MAY							
01...	99	100	--	--	--	--	--
17...	100	--	--	--	--	--	--
JULY							
01...	99	100	--	--	--	--	--
AUG.							
05...	98	100	--	--	--	--	--
20...	98	100	--	--	--	--	--
NOV.							
11...	99	--	99	100	--	--	--
DEC.							
02...	91	--	95	97	99	100	--
23...	96	--	97	97	98	99	100

TOTAL SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDIM- ENT (MG/L) (80154)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY) (80155)	TOTAL SEDIM- ENT DIS- CHARGE (T/DAY) (80156)	STREAM WIDTH (FT) (00004)	MEAN DEPTH (FT) (00064)	STREAM VELOC- ITY (FPS) (00055)
JAN.									
14...	1235	5.0	1610	2920	12700	22100	299	1.6	3.5
20...	1530	8.0	1580	2310	9850	12400	294	1.6	3.4
FEB.									
11...	1420	5.0	843	1120	2550	4990	300	1.1	2.6
25...	1600	7.0	575	1310	2030	2790	206	1.2	2.2
MAR.									
11...	1445	8.0	713	1120	2160	3370	217	1.4	2.3
25...	1450	--	1160	1230	3850	6330	300	1.6	2.5
APR.									
15...	1530	14.0	480	669	867	1290	268	1.1	1.7
29...	1600	19.0	850	819	1880	2990	295	1.4	2.0
JULY									
01...	1230	25.0	155	75	31	81	140	.76	1.5
AUG.									
05...	1545	20.5	560	1400	2120	2600	224	1.3	2.0
20...	1145	20.0	452	453	553	792	230	1.1	1.7
NOV.									
11...	1100	11.5	425	1000	1150	1580	170	1.2	2.0
DEC.									
02...	1415	6.5	455	604	742	1010	180	1.4	1.9
23...	1500	5.5	562	548	832	1170	214	1.3	2.0

08331000 RIO GRANDE AT ISLETA, N. MEX.
(Surveillance network station)

LOCATION.--Lat 34°54'21", long 106°41'04", in NE 1/4 sec. 24, T. 08 N., R. 02 E., Valencia County, 50 feet (15 m) upstream from diversion dam, 50 feet (15 m) downstream from bridge on State Highway 147, at Isleta.

DRAINAGE AREA.--18,100 mi² (46,900 km²) (estimated).

PERIOD OF RECORD.--Chemical analyses: July 1972 to June 1974 (discontinued).

REMARKS.--Samples are collected on the Peralta main canal or the Belen Highline canal when the river is completely diverted.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	DIS- SOLVED SILICA (SiO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NESIUM (NA) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	RICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
JAN, 24...	1115	1530	23	40	48	8.6	28	3.5	140	0	90	13
FEB, 21...	1415	644	26	10	51	9.1	35	4.0	157	0	83	18
MAR, 11...	1550	681	24	10	47	8.4	36	4.2	144	0	80	23
MAR, 28...	1400	1200	23	120	47	8.9	35	4.4	137	0	96	15
APR, 25...	1045	436	28	10	53	9.3	45	5.4	164	0	99	25
MAY 23...	1300	510	25	20	44	8.1	35	4.9	153	0	71	17
JUNE 20...	1000	530	24	20	46	7.8	31	4.5	143	0	73	16

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHO, PHOS- PHORUS (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)
JAN, 24...	.4	.23	.05	.56	.28	.09	.27	.92	.39	.26	279
FEB, 21...	.5	.23	.02	.28	.25	.94	.56	1.8	.60	.42	314
MAR, 11...	.6	--	--	--	.31	--	--	--	--	.28	294
MAR, 28...	.6	.38	.03	.66	.41	.34	.41	1.4	.33	.25	279
APR, 25...	.6	2.1	.08	2.7	2.2	1.9	.90	5.5	1.5	1.2	343
MAY 23...	.6	.32	.11	.46	.43	1.0	.80	2.3	1.2	.95	288
JUNE 20...	.6	.27	.18	.53	.45	1.0	.70	2.2	1.5	.87	283

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED OXYGEN (MG/L) (00300)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN, 24...	286	160	40	1.0	444	8.1	2.0	2.0	10.6	5.2	70
FEB, 21...	307	160	36	1.2	494	8.2	5.5	7.0	9.3	4.7	100
MAR, 11...	297	150	34	1.3	474	7.9	--	11.0	--	--	120
MAR, 28...	300	150	42	1.2	477	8.1	19.0	14.0	7.6	4.8	90
APR, 25...	360	170	36	1.5	553	7.9	22.5	15.0	6.9	11	160
MAY 23...	285	140	14	1.3	475	7.6	34.0	21.0	6.4	4.4	110
JUNE 20...	277	150	33	1.1	442	7.6	28.5	22.0	5.6	6.8	100

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	FECAL COLI- FORM (COL. PER 100 ML) (31616)
JAN, 24...	1115	0
FEB, 21...	1415	0
MAR, 28...	1400	20
APR, 25...	1045	390
MAY 23...	1300	100
JUNE 20...	1000	1100

08331990 RIO GRANDE CONVEYANCE CHANNEL NEAR BERNARDO, N. MEX.

LOCATION.--Lat 34°24'52", long 106°48'11", Socorro County, in Sevilleta or Belen Grant, at gaging station, 0.2 mi (0.3 km) south of U.S. Highway 60, 1.8 mi (2.9 km) east of Bernardo, about 3 mi (5 km) upstream from floodway, and 4 mi (6 km) upstream from Rio Puerco.

PERIOD OF RECORD.--Chemical analyses: October 1956 to current year.
Specific conductance: October 1956 to December 1974 (discontinued).
Water temperatures: October 1958 to December 1974 (discontinued).
Sediment records: October 1947 to December 1974 (discontinued).

EXTREMES:

Current year:

Specific conductance: Maximum daily, 1,450 micromhos Sept. 20; minimum daily, 290 micromhos Aug. 23.
Water temperatures: Maximum 33.0°C July 22; minimum, 0.5°C Jan. 4.
Sediment concentrations: Maximum 20,900 mg/l Aug. 23; minimum daily, no flow on many days during June to September.
Sediment discharge: Maximum daily, 18,900 tons (17,100 tonnes) Jan. 1; minimum daily, 0 tons (0 tonnes) on many days during June to September.

Period of record:

Specific conductance (1964-74): Maximum daily, 2,250 micromhos Aug. 4, 1966; minimum daily, 220 micromhos Aug. 29, 1972.
Water temperatures (1964-74): Maximum, 39.0°C July 13, 1968; minimum, freezing point on several days during 1967, 1970-1972.
Sediment concentrations (1964-74): Maximum daily, 47,900 mg/l Aug. 4, 1966; minimum daily, no flow on many days in 1964, 1966-72, and 1974.
Sediment discharge (1964-74): Maximum daily, 150,000 tons (136,000 tonnes) Aug. 3, 1966; minimum daily, 0 tons (0 tonnes) on many days in 1964, 1966-72, and 1974.

REMARKS.--Records prior to 1965 water year were published as 08332000 Rio Grande near Bernardo, N. Mex., a composite of 08331990 Rio Grande Conveyance Channel near Bernardo, 08332010 Rio Grande Floodway near Bernardo, and 08332050 Bernardo Interior Drain at Bernardo. No flow June 17 to July 4, 6-11, July 25 to Aug. 3, 14-22, Sept. 11-19.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NESIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED TAS- SODIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
FEB.												
21...	1200	794	27	--	56	10	45	4.7	173	0	110	23
27...	1200	731	26	--	58	11	57	5.1	176	0	120	33
MAR.												
06...	1130	556	21	--	52	11	59	5.4	147	9	130	36
14...	1000	682	24	--	55	9.4	53	5.0	165	0	110	34
20...	1200	906	23	--	58	11	54	5.0	170	0	120	29
27...	1130	899	24	--	51	9.1	42	4.3	151	0	110	20
APR.												
10...	1130	322	28	10	61	17	51	4.8	193	0	130	27
24...	1130	71	31	--	88	16	95	6.6	263	0	210	47
MAY												
01...	1030	119	27	--	75	13	72	5.5	223	0	170	33
07...	1230	300	26	--	64	12	58	5.2	201	0	130	27
14...	1200	95	29	--	78	14	75	5.8	239	0	170	36
29...	1400	95	29	--	79	14	78	5.7	234	0	170	34
NOV.												
14...	0900	285	29	10	71	11	58	5.6	215	0	130	31

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHQS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
FEB.												
21...	.5	.96	--	--	366	180	39	1.5	569	7.8	3.0	--
27...	.5	.67	--	--	400	190	46	1.8	642	8.0	4.0	--
MAR.												
06...	.5	.08	--	--	397	180	40	1.9	620	8.8	7.0	--
14...	.5	.53	--	--	375	180	41	1.7	610	8.3	10.0	--
20...	.6	.58	.30	--	387	190	51	1.7	620	8.0	12.5	--
27...	.6	.62	--	--	338	160	41	1.4	531	7.9	14.0	--
APR.												
10...	.6	.67	.44	426	419	220	64	1.5	646	7.9	9.0	140
24...	.7	.40	--	--	626	290	70	2.4	965	8.2	15.0	--
MAY												
01...	.6	.38	--	--	508	240	58	2.0	788	8.0	13.0	--
07...	.4	.45	--	--	424	210	44	1.7	662	7.9	19.0	--
14...	.5	.43	--	--	528	250	56	2.1	825	8.1	21.0	--
29...	.6	.46	--	--	528	260	63	2.1	817	7.9	21.0	--
NOV.												
14...	.5	1.0	.65	445	449	220	44	1.7	687	7.8	7.0	140

RIO GRANDE BASIN

08331990 RIO GRANDE CONVEYANCE CHANNEL NEAR BERNARDO, N. MEX.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE=DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	513	532	517	790	905	---	---	594	860	708	645
2	---	508	535	497	710	880	---	---	685	880	755	645
3	---	502	530	495	643	813	---	---	661	945	722	646
4	442	507	520	472	635	930	---	---	675	905	685	657
5	441	535	530	462	688	930	---	655	722	960	690	657
6	463	562	580	492	670	865	---	635	576	985	690	655
7	451	566	537	498	645	803	---	650	---	1050	685	648
8	462	545	545	528	635	755	---	595	---	770	675	653
9	465	555	545	580	640	750	---	575	---	885	672	650
10	480	532	548	630	655	846	---	635	---	790	665	642
11	482	535	520	630	650	955	---	665	---	743	652	630
12	487	540	465	690	690	815	560	700	---	768	668	633
13	490	547	615	725	717	935	485	---	---	710	675	635
14	490	535	575	735	800	945	510	---	---	1180	668	628
15	497	545	543	705	785	910	503	---	---	880	653	632
16	520	540	542	735	905	---	578	---	---	745	653	645
17	507	533	535	790	890	---	621	---	---	725	650	643
18	507	538	527	810	994	---	605	---	---	735	640	635
19	510	540	518	835	855	---	650	---	---	745	652	652
20	504	545	530	880	797	---	625	---	1450	740	652	645
21	502	535	538	860	773	---	555	---	710	736	655	630
22	740	545	565	840	820	---	620	---	675	730	657	638
23	590	540	550	815	770	---	---	290	690	708	657	631
24	485	535	530	915	819	---	---	708	680	695	663	632
25	592	530	515	838	884	---	---	325	678	713	657	635
26	597	535	515	815	758	---	---	620	678	710	658	620
27	490	532	576	925	760	---	---	625	748	695	660	615
28	500	530	537	950	895	---	---	700	723	700	655	622
29	496	---	530	855	835	---	---	624	776	695	657	628
30	497	---	545	847	820	---	---	594	725	675	658	635
31	497	---	550	---	790	---	---	605	---	717	---	629
MONTH	507	536	539	712	765	---	---	---	---	799	670	638
YEAR	MAX	1450	MIN	290	MEAN	659						

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE=DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	10.0	14.5	14.5	22.5	27.0	---	---	24.5	23.5	13.0	6.0
2	---	8.5	11.0	13.0	23.5	26.0	---	---	20.5	24.0	15.0	8.0
3	---	8.5	11.5	---	21.0	27.5	---	---	24.0	21.5	9.0	10.0
4	0.5	7.5	11.0	13.0	22.0	28.0	---	---	29.0	23.0	11.0	8.0
5	2.0	10.0	12.5	14.5	21.5	25.5	---	25.5	30.0	20.0	9.0	10.0
6	4.0	6.0	7.0	---	21.5	24.0	---	20.5	29.5	17.0	12.0	10.0
7	3.5	5.5	12.5	15.5	22.0	24.5	---	25.0	---	17.0	13.5	8.5
8	5.5	6.0	12.5	17.0	23.0	23.5	---	20.0	---	22.0	11.5	5.5
9	7.0	7.0	13.5	14.5	23.5	26.5	---	23.0	---	23.5	13.0	6.0
10	7.0	7.5	12.0	13.5	27.5	28.5	---	30.0	---	18.5	12.0	6.0
11	8.0	8.5	13.0	13.5	24.0	29.5	---	27.0	---	19.0	12.0	7.0
12	5.5	9.5	14.0	17.0	24.0	30.0	22.0	31.0	---	18.0	11.5	7.5
13	9.0	11.0	15.0	15.0	22.5	24.5	20.0	---	---	16.5	12.0	8.0
14	8.0	10.5	15.5	16.5	23.5	29.5	22.0	---	---	17.0	7.0	5.0
15	7.5	10.5	16.5	18.0	24.5	32.0	22.0	---	---	17.5	11.0	6.5
16	9.0	11.0	16.5	17.0	23.5	---	22.0	---	---	19.0	12.5	8.0
17	8.0	10.5	16.5	19.5	23.0	---	22.5	---	---	19.0	8.0	8.5
18	16.0	11.0	---	19.0	24.5	---	25.0	---	---	21.0	13.0	7.5
19	10.0	9.5	16.0	18.0	23.0	---	21.0	---	---	22.0	13.0	8.0
20	8.0	6.5	12.5	18.5	22.5	---	22.0	---	17.0	16.0	12.0	8.0
21	8.5	9.5	15.0	18.0	24.0	---	24.0	---	14.0	18.0	12.0	10.0
22	8.0	8.5	11.0	20.0	24.0	---	---	33.0	17.0	15.0	9.0	9.0
23	7.0	8.0	14.5	19.0	25.0	---	---	15.0	21.0	17.0	9.0	7.0
24	7.0	7.5	15.0	18.5	24.5	---	---	27.5	25.0	18.5	9.5	5.5
25	8.0	8.5	16.5	22.5	26.0	---	---	20.0	22.5	17.5	11.0	4.0
26	6.0	10.0	16.5	21.0	26.5	---	---	27.5	23.5	16.0	7.0	4.5
27	7.0	11.0	16.0	20.0	25.0	---	---	23.0	23.0	17.0	8.0	5.0
28	6.0	12.5	17.5	17.0	25.5	---	---	26.0	19.0	17.0	8.0	2.0
29	5.0	---	18.0	21.5	25.5	---	---	26.0	21.5	9.0	7.0	4.0
30	8.5	---	19.5	21.0	27.0	---	---	29.0	25.0	12.0	16.5	7.0
31	9.0	---	17.0	---	25.5	---	---	27.0	---	12.5	---	5.0
MONTH	7.0	9.0	14.5	17.5	24.0	---	---	---	---	18.0	11.0	7.0
YEAR	MAX	33.0	MIN	0.5	MEAN	16.0						

RIO GRANDE BASIN

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08331990 RIO GRANDE CONVEYANCE CHANNEL NEAR BERNARDO, N. MEX.--Continued
 SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1570	4460	18900	1320	2730	9730	596	1780	2860
2	1570	2790	11800	1250	2640	8910	519	1830	2560
3	1560	3150	13300	1300	2550	8950	592	1670	2670
4	1570	3510	14900	1310	2450	8670	592	1820	2910
5	1440	3620	14100	1100	2980	8850	622	1750	2940
6	1300	3050	10700	913	2750	6780	527	1190	1690
7	1300	2850	10000	843	3430	7810	474	1670	2140
8	1450	2750	10800	814	3120	6860	418	1710	1930
9	1500	2740	11100	812	3790	8310	412	1600	1780
10	1550	2800	11700	778	2850	5990	408	1360	1500
11	1490	2900	11700	758	2260	4630	676	3080	6140
12	1430	3020	11700	768	2020	4190	830	3230	7240
13	1390	3010	11300	802	2290	4960	743	1760	3530
14	1350	3000	10900	777	2070	4340	691	1650	3080
15	1370	3060	11300	791	1700	3630	644	1440	2500
16	1410	2860	10900	862	2200	5120	651	1040	1830
17	1400	2340	8850	825	2150	4790	658	1800	3200
18	1380	2730	10200	805	2140	4650	783	2810	5940
19	1380	2770	10300	776	2200	4610	869	2300	5400
20	1370	2720	10100	770	2200	4570	874	2030	4790
21	1370	2700	9990	793	2120	4540	769	1670	3470
22	1360	2600	9550	791	2010	4290	673	1820	3310
23	1390	2650	9950	777	1910	4010	702	1730	3280
24	1390	2630	9870	768	2180	4520	752	1990	4040
25	1440	2770	10800	765	2370	4900	851	2100	4830
26	1410	2550	9710	755	2190	4460	883	2090	4980
27	1390	2810	10500	736	2130	4230	903	2180	5320
28	1380	3000	11200	677	2070	3780	901	2070	5040
29	1390	3000	11300	--	--	--	941	1920	4880
30	1330	2700	9700	--	--	--	908	1670	4090
31	1310	2800	9900	--	--	--	819	1530	3380
TOTAL	43940	--	347020	24436	--	161080	21681	--	113250
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	912	1950	4800	119	200	64	78	93	20
2	996	1620	4360	192	590	306	75	98	20
3	1030	1750	4870	309	1090	909	90	113	27
4	1110	2450	7340	364	640	629	70	69	13
5	1050	2560	7260	312	650	548	55	60	8.9
6	868	2070	4850	352	745	708	55	78	12
7	697	1680	3160	301	525	427	56	88	13
8	497	1190	1600	347	560	525	56	88	13
9	358	910	880	354	520	497	49	82	11
10	319	640	551	330	505	450	34	74	6.8
11	261	530	373	267	303	218	29	124	9.7
12	257	490	340	208	346	194	39	80	8.4
13	210	295	167	175	163	77	29	77	6.0
14	220	610	362	106	90	26	18	77	3.7
15	252	484	329	119	141	45	4.2	50	.57
16	176	307	146	69	89	17	.64	30	.05
17	157	213	90	68	133	24	0	0	0
18	132	170	61	62	82	14	0	0	0
19	101	136	37	71	116	22	0	0	0
20	99	108	29	121	156	51	0	0	0
21	90	102	25	175	235	111	0	0	0
22	93	107	27	149	260	105	0	0	0
23	78	119	25	129	185	64	0	0	0
24	70	77	15	116	160	50	0	0	0
25	81	72	16	100	145	39	0	0	0
26	89	89	21	133	167	60	0	0	0
27	76	102	21	113	94	29	0	0	0
28	49	75	9.9	75	134	27	0	0	0
29	79	83	18	96	217	56	0	0	0
30	92	110	27	93	130	33	0	0	0
31	--	--	--	88	109	26	--	--	--
TOTAL	10499	--	41809.9	5513	--	6351	737.64	--	173.12

08331990 RIO GRANDE CONVEYANCE CHANNEL NEAR BERNARDO, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	0	0	0	0	0	0	254	4200	2880
2	0	0	0	0	0	0	132	1610	574
3	0	0	0	0	0	0	53	505	72
4	0	0	0	.84	248	8.7	26	270	19
5	.26	429	1.8	32	2560	221	21	175	9.9
6	0	0	0	52	1710	240	8.0	90	1.9
7	0	0	0	78	2080	438	5.3	70	1.0
8	0	0	0	103	1710	476	3.3	65	.58
9	0	0	0	65	1640	288	1.6	60	.26
10	0	0	0	31	760	64	.95	49	.13
11	0	0	0	13	340	12	0	0	0
12	55	798	116	9.8	200	5.3	0	0	0
13	109	2580	786	.50	60	.08	0	0	0
14	178	1570	755	0	0	0	0	0	0
15	274	1240	917	0	0	0	0	0	0
16	200	840	454	0	0	0	0	0	0
17	146	430	170	0	0	0	0	0	0
18	125	375	127	0	0	0	0	0	0
19	179	1530	739	0	0	0	0	0	0
20	127	390	134	0	0	0	9.3	2370	215
21	96	2720	770	0	0	0	174	11600	8640
22	26	490	34	0	0	0	92	713	177
23	.60	250	.41	33	20900	2320	85	667	153
24	.45	200	.24	11	410	12	75	760	154
25	0	0	0	17	2230	151	84	583	132
26	0	0	0	78	3910	851	94	495	126
27	0	0	0	90	1600	389	57	303	47
28	0	0	0	69	460	86	50	221	30
29	0	0	0	101	860	235	21	101	5.7
30	0	0	0	126	800	272	18	81	3.9
31	0	0	0	214	3150	1820	--	--	--
TOTAL	1516.31	--	5004.45	1124.14	--	7889.08	1264.49	--	13242.37

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	61	175	29	273	1310	966	277	680	509
2	48	108	14	283	1720	1310	276	800	596
3	46	83	10	269	1610	1170	247	565	377
4	47	57	7.2	287	1660	1290	148	336	134
5	33	48	4.3	301	1560	1270	67	225	41
6	27	59	4.3	306	1690	1400	64	178	31
7	31	76	6.4	291	1790	1410	62	193	32
8	98	395	105	286	1750	1350	61	209	34
9	91	250	61	299	1270	1030	60	119	19
10	.23	345	115	300	1260	1020	57	206	32
11	146	420	166	295	1140	908	55	244	36
12	144	460	179	269	1200	872	52	480	67
13	216	1200	700	280	1700	1290	49	230	30
14	266	6800	4880	288	950	739	45	270	33
15	246	5600	3720	297	650	521	42	615	70
16	225	2050	1250	306	770	636	37	246	25
17	225	1800	1090	306	790	653	36	190	18
18	211	1250	712	316	860	734	34	188	17
19	175	775	366	319	840	723	33	209	19
20	161	500	217	319	700	603	32	550	48
21	167	420	189	303	450	368	31	255	21
22	166	440	197	282	650	495	31	503	42
23	212	650	372	283	875	669	29	250	20
24	210	650	369	289	1150	897	28	208	16
25	175	560	265	287	720	558	28	224	17
26	158	650	277	293	610	483	27	209	15
27	219	840	497	283	660	504	26	217	15
28	260	890	625	281	835	634	27	211	15
29	242	825	539	279	690	520	27	179	13
30	253	1230	840	278	660	495	27	164	12
31	253	1750	1200	--	--	--	27	493	36
TOTAL	4935	--	17006.2	8748	--	25518	2042	--	2390

CAL YR 1974 TOTAL WATER DISCHARGE (CFS-DAYS)
 CAL YR 1974 TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)

126436.78
 742734.12

WTR YR 1974 TOTAL WATER DISCHARGE (CFS-DAYS)
 WTR YR 1974 TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)

195846.78
 1322033.92

08331990 RIO GRANDE CONVEYANCE CHANNEL NEAR BERNARDO, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE DI- S- CHARGE (MG/L) (80154)	SUS- PENDE DI- S- CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN ,002 MM (70337)	SUS. SED. FALL DIAM. % FINER THAN ,004 MM (70338)	SUS. SED. FALL DIAM. % FINER THAN ,016 MM (70340)	SUS. SED. FALL DIAM. % FINER THAN ,062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN ,125 MM (70343)
JAN.										
11...	1700	8.0	1520	2930	12000	5	6	8	23	49
22...	1700	8.0	1410	2630	10000	5	6	8	22	52
FEB.										
01...	1700	10.0	1290	2490	8670	4	5	7	21	55
14...	1700	10.5	794	1870	4010	4	6	6	17	52
26...	1730	10.0	766	4250	8790	2	2	3	7	29
MAR.										
09...	1730	13.5	364	1340	1320	10	13	14	23	48
23...	1730	14.5	696	1660	3120	6	6	8	14	30
APR.										
04...	1730	13.0	1090	2350	6920	8	10	14	24	38
19...	1700	18.0	85	127	29	--	--	--	--	--
MAY										
02...	1800	23.5	220	731	434	20	24	32	45	59
20...	1730	22.5	119	168	54	--	--	--	--	--
JUNE										
04...	1730	28.0	64	57	10	--	--	--	--	--
JULY										
14...	1000	22.0	215	1670	969	35	46	64	71	76
21...	1300	24.0	83	3110	697	50	72	99	100	--
AUG.										
06...	0900	20.5	46	1690	210	77	93	99	100	--
23...	0600	15.0	14	24700	934	76	94	100	--	--
SEP.										
21...	1300	14.0	152	11600	4760	43	62	93	99	99
OCT.										
14...	1630	17.0	290	14300	11200	71	86	96	97	98
NOV.										
14...	0900	7.0	285	594	457	60	86	94	--	--
14...	1700	12.0	280	1200	907	31	40	47	50	55
DEC.										
11...	1700	7.0	55	241	36	72	85	94	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN ,250 MM (70344)	SUS. SED. FALL DIAM. % FINER THAN ,500 MM (70345)	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM (70346)	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM (70347)	SUS. SED. SIEVE DIAM. % FINER THAN ,062 MM (70331)	SUS. SED. SIEVE DIAM. % FINER THAN ,125 MM (70332)	SUS. SED. SIEVE DIAM. % FINER THAN ,250 MM (70333)	SUS. SED. SIEVE DIAM. % FINER THAN ,500 MM (70334)	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM (70335)
JAN.									
11...	86	99	100	--	--	--	--	--	--
22...	87	99	100	--	--	--	--	--	--
FEB.									
01...	87	98	100	--	--	--	--	--	--
14...	86	99	100	--	--	--	--	--	--
26...	82	99	99	100	--	--	--	--	--
MAR.									
09...	93	100	--	--	--	--	--	--	--
23...	78	98	100	--	--	--	--	--	--
APR.									
04...	83	99	100	--	--	--	--	--	--
19...	--	--	--	--	80	84	89	97	100
MAY									
02...	87	100	--	--	--	--	--	--	--
20...	--	--	--	--	88	92	94	99	100
JUNE									
04...	--	--	--	--	83	85	89	98	100
JULY									
14...	94	100	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
AUG.									
06...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
SEP.									
21...	100	--	--	--	--	--	--	--	--
OCT.									
14...	100	--	--	--	--	--	--	--	--
NOV.									
14...	--	--	--	--	96	99	100	--	--
14...	73	96	100	--	--	--	--	--	--
DEC.									
11...	--	--	--	--	96	98	98	99	100

RIO GRANDE BASIN

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, N. MEX.

LOCATION.--Lat 34°25'01", long 106°48'00", Socorro County, in Belen or Sevilleta Grant, at gaging station on U.S. Highway 60, 5 mi (8 km) downstream from heading of conveyance channel, and 2 mi (3 km) east of Bernardo, and at mile 1,487.2 (2,392.9 km).

DRAINAGE AREA.--19,230 mi² (49,810 km²), approximately, including 2,940 mi² (7,610 km²) in closed basin in San Luis Valley, Colo.

PERIOD OF RECORD.--Chemical analyses: October 1956 to current year.

Specific conductance: October 1956 to current year.

Water temperatures: October 1964 to current year.

Sediment records: October 1964 to current year.

EXTREMES:

Current year:

Specific conductance: Maximum daily, 685 micromhos Nov. 7; minimum daily, 483 micromhos Nov. 5.

Water temperatures: Maximum, 15.0°C Nov. 7, 9, 18; minimum, 1.0°C Dec. 28.

Sediment concentrations: Maximum daily, 5,700 mg/l Dec. 10; minimum daily, no flow on many days.

Sediment discharge: Maximum daily, 7,390 tons (6,700 tonnes) Dec. 10; minimum daily, 0 tons (0 tonnes) on many days.

Period of record:

Specific conductance (1964 to 1974): Maximum daily, 1,330 micromhos Aug. 10, 1967; minimum daily, 271 micromhos June 17, 1973.

Water temperatures (1964 to 1974): Maximum, 31.5°C July 4, 1973; minimum, freezing point Feb. 23, 1971, and Feb. 3, 1972.

Sediment concentrations (1964 to 1974): Maximum daily, not determined; minimum daily, no flow on many days each year.

Sediment discharge (1964 to 1974): Maximum daily, 356,000 tons (323,000 tonnes) Aug. 11, 1967; minimum daily, 0 tons (0 tonnes) on many days each year.

REMARKS.--Additional sediment total discharge determinations were made bi-weekly when needed. Records prior to 1965 water year were published as 08332000 Rio Grande near Bernardo, N. Mex., a composite of 08331990 Rio Grande Conveyance Channel near Bernardo, 08332010 Rio Grande Floodway near Bernardo, and 08332050 Bernardo Interior Drain at Bernardo. No flow Jan. 8-14, 16-22, Jan. 25 to Nov. 4.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

		INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (MCO3) (MG/L) (00440)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)
DATE	TIME											
NOV.												
06...	A 1200	120	29	10	69	11	58	6.0	219	120	32	.5
13...	1100	170	15	--	41	9.4	58	5.8	117	120	30	.5

A OTHER VALUES: PH (UNITS(00400)7.7; CARBONATE (CO3)(MG/L) 0.

RIO GRANDE BASIN

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08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, N. MEX.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	---	---	---	---	639
2	---	---	---	---	---	---	---	---	---	---	---	643
3	---	---	---	---	---	---	---	---	---	---	---	638
4	---	---	---	---	---	---	---	---	---	---	---	637
5	---	---	---	---	---	---	---	---	---	---	483	648
6	---	---	---	---	---	---	---	---	---	---	488	643
7	---	---	---	---	---	---	---	---	---	---	685	637
8	---	---	---	---	---	---	---	---	---	---	680	633
9	---	---	---	---	---	---	---	---	---	---	623	625
10	---	---	---	---	---	---	---	---	---	---	623	618
11	---	---	---	---	---	---	---	---	---	---	650	625
12	---	---	---	---	---	---	---	---	---	---	673	613
13	---	---	---	---	---	---	---	---	---	---	662	618
14	---	---	---	---	---	---	---	---	---	---	670	620
15	---	---	---	---	---	---	---	---	---	---	670	627
16	---	---	---	---	---	---	---	---	---	---	660	628
17	---	---	---	---	---	---	---	---	---	---	655	624
18	---	---	---	---	---	---	---	---	---	---	653	618
19	---	---	---	---	---	---	---	---	---	---	657	627
20	---	---	---	---	---	---	---	---	---	---	648	633
21	---	---	---	---	---	---	---	---	---	---	656	625
22	---	---	---	---	---	---	---	---	---	---	651	628
23	---	---	---	---	---	---	---	---	---	---	652	627
24	---	---	---	---	---	---	---	---	---	---	655	632
25	---	---	---	---	---	---	---	---	---	---	660	625
26	---	---	---	---	---	---	---	---	---	---	655	610
27	---	---	---	---	---	---	---	---	---	---	653	600
28	---	---	---	---	---	---	---	---	---	---	653	607
29	---	---	---	---	---	---	---	---	---	---	650	618
30	---	---	---	---	---	---	---	---	---	---	656	615
31	---	---	---	---	---	---	---	---	---	---	---	608
MONTH	---	---	---	---	---	---	---	---	---	---	643	625
YEAR	MAX	685	MIN	483	MEAN	634						

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	---	---	---	---	5.0
2	---	---	---	---	---	---	---	---	---	---	---	9.5
3	---	---	---	---	---	---	---	---	---	---	---	11.0
4	---	---	---	---	---	---	---	---	---	---	---	9.5
5	---	---	---	---	---	---	---	---	---	---	14.0	10.0
6	---	---	---	---	---	---	---	---	---	---	14.0	10.0
7	---	---	---	---	---	---	---	---	---	---	15.0	7.0
8	---	---	---	---	---	---	---	---	---	---	12.0	4.5
9	---	---	---	---	---	---	---	---	---	---	15.0	6.0
10	---	---	---	---	---	---	---	---	---	---	13.5	5.0
11	---	---	---	---	---	---	---	---	---	---	14.5	6.0
12	---	---	---	---	---	---	---	---	---	---	14.0	7.0
13	---	---	---	---	---	---	---	---	---	---	8.0	7.0
14	---	---	---	---	---	---	---	---	---	---	13.0	4.0
15	---	---	---	---	---	---	---	---	---	---	13.5	5.5
16	---	---	---	---	---	---	---	---	---	---	14.5	7.0
17	---	---	---	---	---	---	---	---	---	---	9.0	7.0
18	---	---	---	---	---	---	---	---	---	---	15.0	6.5
19	---	---	---	---	---	---	---	---	---	---	13.0	9.0
20	---	---	---	---	---	---	---	---	---	---	13.0	8.0
21	---	---	---	---	---	---	---	---	---	---	13.0	10.0
22	---	---	---	---	---	---	---	---	---	---	10.0	7.5
23	---	---	---	---	---	---	---	---	---	---	10.5	8.0
24	---	---	---	---	---	---	---	---	---	---	12.0	4.5
25	---	---	---	---	---	---	---	---	---	---	13.0	2.5
26	---	---	---	---	---	---	---	---	---	---	8.0	7.5
27	---	---	---	---	---	---	---	---	---	---	8.0	5.0
28	---	---	---	---	---	---	---	---	---	---	9.5	1.0
29	---	---	---	---	---	---	---	---	---	---	7.0	4.0
30	---	---	---	---	---	---	---	---	---	---	8.0	5.0
31	---	---	---	---	---	---	---	---	---	---	---	3.5
MONTH	---	---	---	---	---	---	---	---	---	---	12.0	6.5
YEAR	MAX	15.0	MIN	1.0	MEAN	9.0						

RIO GRANDE BASIN

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	336	1230	1120						
2	304	1000	821						
3	200	690	373						
4	140	690	261						
5	90	600	146						
6	30	540	44						
7	10	360	9.7						
8	0	0	0						
9	0	0	0						
10	0	0	0						
11	0	0	0						
12	0	0	0						
13	0	0	0						
14	0	0	0						
15	11	477	28						
16	0	0	0						
17	0	0	0						
18	0	0	0						
19	0	0	0						
20	0	0	0						
21	0	0	0						
22	0	0	0						
23	8.2	383	10						
24	1.8	128	1.0						
25	0	0	0						
26	0	0	0						
27	0	0	0						
28	0	0	0						
29	0	0	0						
30	0	0	0						
31	0	0	0						
TOTAL	1131.0	--	2813.7	0	--	0	0	--	0

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
TOTAL	0	--	0	0	--	0	0	--	0

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
TOTAL	0	--	0	0	--	0	0	--	0
DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1				0	0	0	187	400	202
2				0	0	0	196	460	243
3				0	0	0	232	580	363
4				0	0	0	344	635	590
5				55	873	156	440	542	644
6				110	925	275	416	525	590
7				140	860	325	448	645	780
8				148	890	356	464	900	1130
9				148	840	336	498	970	1300
10				169	895	408	480	5700	7390
11				210	900	510	489	1800	2380
12				164	1050	465	507	1960	2680
13				164	770	341	543	1830	2680
14				169	725	331	480	1460	1890
15				196	690	365	480	1820	2360
16				196	520	275	507	2800	3830
17				205	560	310	472	1340	1710
18				222	515	309	464	1530	1920
19				244	472	311	472	1180	1500
20				244	470	310	489	1180	1560
21				232	470	294	440	1290	1530
22				222	435	261	489	1500	1980
23				232	475	298	489	1200	1580
24				222	430	258	480	1920	2490
25				210	375	213	480	1700	2200
26				216	379	221	480	2060	2670
27				232	395	247	480	1150	1490
28				238	440	283	480	1500	1940
29				232	421	264	432	830	968
30				205	405	224	416	1210	1360
31							432	1740	2030
TOTAL	0	--	0	5025	--	7946	13706	--	55980
CAL YR 1974	TOTAL WATER DISCHARGE (CFS-DAYS)								
CAL YR 1974	TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)								
WTR YR 1974	TOTAL WATER DISCHARGE (CFS-DAYS)								
WTR YR 1974	TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)								

19862
66739.74877.5
16787

RIO GRANDE BASIN

08332010 RIO GRANDE FLOODWAY NEAR BERNARDO, N. MEX.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDIM- ENT (MG/L) (80154)	SUS- PENDE SEDIM- ENT (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN (70337)	SUS. SED. FALL DIAM. % FINER THAN (70338)	SUS. SED. FALL DIAM. % FINER THAN (70340)
NOV.								
06...	1200	15.0	120	1100	356	70	78	83
13...	1100	8.0	170	710	326	61	78	88
DEC.								
10...	1600	5.0	498	7810	10500	4	4	4

DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN (70342)	SUS. SED. FALL DIAM. % FINER THAN (70343)	SUS. SED. FALL DIAM. % FINER THAN (70344)	SUS. SED. FALL DIAM. % FINER THAN (70345)	SUS. SED. FALL DIAM. % FINER THAN (70331)	SUS. SED. FALL DIAM. % FINER THAN (70332)	SUS. SED. FALL DIAM. % FINER THAN (70333)	SUS. SED. FALL DIAM. % FINER THAN (70334)
NOV.									
06...	--	--	--	--	--	88	93	98	100
13...	--	--	--	--	--	94	96	100	--
DEC.									
10...	7	26	88	100	--	--	--	--	--

PARTICLE SIZE OF SURFACE BED MATERIAL, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDIM- ENT (MG/L) (80154)	SUS- PENDE SEDIM- ENT (T/DAY) (80155)	BED MAT. FALL DIAM. % FINER THAN (80158)	BED MAT. FALL DIAM. % FINER THAN (80159)	BED MAT. FALL DIAM. % FINER THAN (80160)	BED MAT. FALL DIAM. % FINER THAN (80161)	BED MAT. FALL DIAM. % FINER THAN (80162)	BED MAT. FALL DIAM. % FINER THAN (80163)
NOV.										
06...	1200	120	1100	356	0	1	55	95	99	100
13...	1100	170	710	326	1	3	61	96	100	--

TOTAL SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDIM- ENT (MG/L) (80154)	SUS- PENDE SEDIM- ENT (T/DAY) (80155)	TOTAL SEDIM- ENT DIS- CHARGE (T/DAY) (80156)	STREAM WIDTH (FT) (00004)	MEAN DEPTH (FT) (00064)	STREAM VELOC- ITY (FPS) (00055)
NOV.									
06...	1200	15.0	120	1100	356	431	55	1.2	1.9
13...	1100	8.0	170	710	326	382	155	.80	1.4

08353000 RIO PUERCO NEAR BERNARDO, N. MEX.

LOCATION.--Lat 34°24'33", long 106°51'09", in SE $\frac{1}{4}$ sec.8, T.2 N., R.1 E., Socorro County, at gaging station on former U.S. Highway 85, and 0.2 mi (0.3 km) upstream from Interstate Highway 25, 1.2 mi (1.9 km) southwest of Bernardo, 3 mi (4.8 km) upstream from mouth, and 18 mi (29 km) south of Belen.

DRAINAGE AREA.--7,350 mi² (19,040 km²), approximately, of which at least 1,130 mi² (2,930 km²) does not contribute directly to surface runoff.

PERIOD OF RECORD.--Chemical analyses: July 1956 to current year.

Specific conductance: July 1956 to current year.

Water temperatures: October 1964 to current year.

Sediment records: October 1947 to current year.

EXTREMES:

Current year:

Specific conductance: Maximum daily, 4,240 micromhos Mar. 19; minimum daily, 430 micromhos Aug. 25.

Water temperatures: Maximum, 27.5°C Aug. 10; minimum, 9.5°C Oct. 30-31, Nov. 4.

Sediment concentrations: Maximum daily, 175,000 mg/l Oct. 12; minimum daily, no flow on many days.

Sediment discharge: Maximum daily, 594,000 tons (539,000 tonnes) Aug. 4; minimum daily, 0 tons (0 tonnes) on many days.

Period of record:

Specific conductance: Maximum daily, 11,400 micromhos June 10, 1968; minimum daily, 238 micromhos July 30, 1969.

Water temperatures: Maximum, 30.5°C on Aug. 3, 1970; minimum, freezing point Dec. 30, 1971.

Sediment concentrations: Maximum daily, 267,000 mg/l July 26, 1957; minimum daily, no flow on many days of each year.

Sediment discharge: Maximum daily, 2,240,000 tons (2,030,000 tonnes) Aug. 7, 1957; minimum daily, 0 tons (0 tonnes) on many days of each year.

REMARKS.--Chemical analyses are run on composite samples collected during the day or period indicated. No flow Jan. 1 to Mar. 18, Mar. 22 to Apr. 30, May 2 to July 18, 20-27, Aug. 12-20, 27, 28, Aug. 31 to Sept. 18, Sept. 26 to Oct. 5, 8-10, 19-21, 27, 28, Nov. 7 to Dec. 31. Averages are computed on flow periods analyzed.

CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- CHARGE (CFS) (00060)	DIS- SOLVED SILICA (SiO ₂) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED FO- TA8- SIUM (K) (MG/L) (00935)	BICAR- BONATE (MCO ₃) (MG/L) (00440)	CAR- BONATE (CO ₃) (MG/L) (00445)	DIS- SOLVED SULFATE (SO ₄) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)
JULY												
19...	4.7	13	--	54	8.6	98	6.6	160	0	150	75	.9
29...	24	13	--	50	7.0	63	5.4	177	0	88	37	.7
31...	67	15	--	300	64	360	16	233	0	1300	170	.7
AUG.												
01...	35	15	--	330	64	350	14	224	0	1500	73	.7
02-03	7.0	24	--	120	18	110	7.4	143	0	390	75	.5
04...	1140	13	--	300	64	400	12	261	0	1500	79	.8
05-06	249	9.9	--	140	30	280	9.4	162	0	840	51	1.0
08-11	55	11	--	120	24	200	9.0	134	0	610	49	.9
21-24	100	14	--	65	12	83	7.3	180	0	190	35	.7
25...	50	8.8	--	32	4.2	45	5.6	96	0	86	20	.7
26...	171	13	--	60	11	89	6.8	170	0	190	43	.9
29...	57	13	--	60	11	89	6.8	170	0	190	43	.9
SEP.												
20-24	63	13	--	150	29	190	8.4	187	0	640	49	.6
OCT.												
12...	679	9.1	--	230	53	260	10	129	0	1100	54	.6
13-14	660	8.1	--	120	26	180	8.4	118	0	580	43	.8
15-18	94	9.4	--	140	28	180	6.0	159	0	590	42	.7
22-26	105	9.4	--	140	28	180	6.0	159	0	590	42	.7
29-31	318	9.4	--	140	28	180	6.0	159	0	590	42	.7
NOV.												
01-04	82	7.0	--	110	26	180	6.5	177	0	510	52	.5
WTD. AVG.	--	10	--	164	35	224	8.5	169	0	769	52	.7
TIME WTD.												
AVG.	164	11	--	132	26	179	7.7	165	0	574	51	.7
TOT. LOAD (TUNS)	--	201	--	3180	672	4340	165	3280	0	14900	1010	14
WTD. AVG.	--	13	--	188	39	266	9.9	205	0	916	62	.8
TIME WTD.												
AVG.	121	13	--	128	25	174	8.6	172	0	555	55	.7
TOT. LOAD (TUNS)	--	102	--	1530	319	2170	81	1670	0	7460	503	6.6

08353000 RIO PUERCO NEAR BERNARDO, N. MEX.--Continued

CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (000631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (000671)	DIS- SOLVED BORDON (R) (UG/L) (01020)	DIS- SOLVED (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED (SUM OF CUNSTI- (MG/L) (70301)	DIS- SOLVED (TONS PER AC=FT) (70303)	DIS- SOLVED (TONS PER DAY) (70302)	HARD- NESS (CA, MG) (MG/L) (000900)	NON- CAR- BONATE HARD- NESS (MG/L) (000902)	SODIUM AD- SORP- TION RATIO (000931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (000400)
JULY												
19...	.67	--	--	--	488	.66	6.19	170	39	3.3	812	7.7
29...	.33	--	--	--	353	.48	22.9	150	5	2.2	574	7.3
31...	.81	--	--	--	2340	3.18	550	1000	810	4.9	3010	7.5
AUG.												
01...	.62	--	--	--	2460	3.35	232	1100	920	4.6	2980	7.7
02-03	1.1	--	--	--	820	1.12	15.5	370	250	2.5	1180	7.5
04...	.80	--	--	--	2500	3.40	7700	1000	790	5.5	3200	6.9
05-06	1.5	--	--	--	1450	1.97	975	470	340	5.6	2020	7.8
08-11	1.2	--	--	--	1100	1.50	163	400	290	4.4	1560	7.7
21-24	1.0	--	--	--	500	.68	135	210	62	2.5	803	7.8
25...	2.0	--	--	--	258	.35	34.8	97	18	2.0	437	8.3
26...	2.0	--	--	--	506	.69	234	200	61	2.8	803	8.2
29...	2.0	--	--	--	506	.69	77.9	200	61	2.8	803	8.2
SEP.												
20-24	.47	--	--	--	1170	1.59	199	490	340	3.7	1680	7.7
OCT.												
12...	1.2	--	--	--	1790	2.43	3280	790	680	4.0	2370	7.7
13-14	1.1	--	--	--	1030	1.40	1840	410	310	3.9	1540	7.8
15-18	.67	--	--	--	1080	1.47	274	470	340	3.6	1540	7.9
22-26	.67	--	--	--	1080	1.47	306	470	340	3.6	1540	7.9
29-31	.67	--	--	--	1080	1.47	927	470	340	3.6	1540	7.9
NOV.												
01-04	.32	--	--	--	981	1.33	217	380	240	4.0	1430	7.8
WTD. AVG.	.94	--	--	--	1350	1.84	--	550	412	4.1	1860	7.7
TIME WTD.												
AVG.	.87	--	--	--	1070	1.45	--	438	303	3.7	1510	7.8
TOT. LOAD (TONS)	18	--	--	--	26300	--	--	--	--	--	--	--
WTD. AVG.	1.0	--	--	--	1600	2.18	--	625	460	4.5	2140	7.5
TIME WTD.												
AVG.	1.0	--	--	--	1050	1.43	--	419	280	3.6	1470	7.7
TOT. LOAD (TONS)	8.5	--	--	--	13000	--	--	--	--	--	--	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	2980	---	---	1410	---
2	---	---	---	---	---	---	---	1330	---	---	---	---
3	---	---	---	---	---	---	---	1030	---	---	---	---
4	---	---	---	---	---	---	---	3200	---	---	1350	---
5	---	---	---	---	---	---	---	2070	---	---	---	---
6	---	---	---	---	---	---	---	1980	---	---	---	---
7	---	---	---	---	---	---	---	1970	---	---	---	---
8	---	---	---	---	---	---	---	1620	---	---	---	---
9	---	---	---	---	---	---	---	1100	---	---	---	---
10	---	---	---	---	---	---	---	1840	---	---	---	---
11	---	---	---	---	---	---	---	1660	---	---	---	---
12	---	---	---	---	---	---	---	---	---	2340	---	---
13	---	---	---	---	---	---	---	---	---	1700	---	---
14	---	---	---	---	---	---	---	---	---	1320	---	---
15	---	---	---	---	---	---	---	---	---	1300	---	---
16	---	---	---	---	---	---	---	---	---	1300	---	---
17	---	---	---	---	---	---	---	---	---	1320	---	---
18	---	---	---	---	---	---	---	---	---	1410	---	---
19	---	---	4240	---	---	---	802	---	---	---	---	---
20	---	---	---	---	---	---	---	1880	---	---	---	---
21	---	---	---	---	---	---	---	864	1470	---	---	---
22	---	---	---	---	---	---	---	---	1730	---	---	---
23	---	---	---	---	---	---	---	761	1630	---	---	---
24	---	---	---	---	---	---	---	716	1530	1680	---	---
25	---	---	---	---	---	---	---	430	---	1610	---	---
26	---	---	---	---	---	---	---	785	---	1460	---	---
27	---	---	---	---	---	---	---	680	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	571	887	---	1820	---	---
30	---	---	---	---	---	---	---	---	---	1500	---	---
31	---	---	---	---	---	---	2980	---	---	1610	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	MAX	4240	MIN	430	MEAN	1570						

RIO GRANDE BASIN

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08353000 RIO PUERCO NEAR BERNARDO, N. MEX.--Continued

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	24.5	---	---	10.0	---
2	---	---	---	---	---	---	---	21.0	---	---	---	---
3	---	---	---	---	---	---	---	21.0	---	---	---	---
4	---	---	---	---	---	---	---	20.5	---	---	9.5	---
5	---	---	---	---	---	---	---	22.5	---	---	---	---
6	---	---	---	---	---	---	---	21.0	---	---	---	---
7	---	---	---	---	---	---	---	24.0	---	---	---	---
8	---	---	---	---	---	---	---	20.0	---	---	---	---
9	---	---	---	---	---	---	---	25.5	---	---	---	---
10	---	---	---	---	---	---	---	27.5	---	---	---	---
11	---	---	---	---	---	---	---	25.5	---	---	---	---
12	---	---	---	---	---	---	---	---	---	15.0	---	---
13	---	---	---	---	---	---	---	---	---	15.5	---	---
14	---	---	---	---	---	---	---	---	---	15.0	---	---
15	---	---	---	---	---	---	---	---	---	15.0	---	---
16	---	---	---	---	---	---	---	---	---	16.0	---	---
17	---	---	---	---	---	---	---	---	---	18.0	---	---
18	---	---	---	---	---	---	---	---	---	22.0	---	---
19	---	---	12.0	---	---	---	18.5	---	---	---	---	---
20	---	---	---	---	---	---	---	---	17.0	---	---	---
21	---	---	---	---	---	---	---	23.5	13.0	---	---	---
22	---	---	---	---	---	---	---	---	15.0	---	---	---
23	---	---	---	---	---	---	---	18.5	19.0	---	---	---
24	---	---	---	---	---	---	---	20.5	24.0	12.0	---	---
25	---	---	---	---	---	---	---	18.0	---	18.0	---	---
26	---	---	---	---	---	---	---	24.0	---	14.0	---	---
27	---	---	---	---	---	---	---	19.0	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	20.5	25.0	---	11.0	---	---
30	---	---	---	---	---	---	---	---	---	9.5	---	---
31	---	---	---	---	---	---	26.0	---	---	9.5	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	MAX	27.5	MIN	9.5	MEAN	18.5						

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
JANUARY FEBRUARY MARCH

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1							0	0	0
2							0	0	0
3							0	0	0
4							0	0	0
5							0	0	0
6							0	0	0
7							0	0	0
8							0	0	0
9							0	0	0
10							0	0	0
11							0	0	0
12							0	0	0
13							0	0	0
14							0	0	0
15							0	0	0
16							0	0	0
17							0	0	0
18							0	0	0
19							4.8	143000	2320
20							.73	35800	87
21							.15	17000	28
22							0	0	0
23							0	0	0
24							0	0	0
25							0	0	0
26							0	0	0
27							0	0	0
28							0	0	0
29							0	0	0
30							0	0	0
31							0	0	0
TOTAL	0	--	0	0	--	0	5.68	--	2435

08353000 RIO PUERCO NEAR BERNARDO, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1				.75	9750	184			
2				0	0	0			
3				0	0	0			
4				0	0	0			
5				0	0	0			
6				0	0	0			
7				0	0	0			
8				0	0	0			
9				0	0	0			
10				0	0	0			
11				0	0	0			
12				0	0	0			
13				0	0	0			
14				0	0	0			
15				0	0	0			
16				0	0	0			
17				0	0	0			
18				0	0	0			
19				0	0	0			
20				0	0	0			
21				0	0	0			
22				0	0	0			
23				0	0	0			
24				0	0	0			
25				0	0	0			
26				0	0	0			
27				0	0	0			
28				0	0	0			
29				0	0	0			
30				0	0	0			
31				0	0	0			
TOTAL	0	--	0	.75	--	184	0	--	0

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	0	0	0	35	128000	11700	0	0	0
2	0	0	0	6.0	50000	810	0	0	0
3	0	0	0	8.0	23600	735	0	0	0
4	0	0	0	1140	135000	594000	0	0	0
5	0	0	0	418	135000	160000	0	0	0
6	0	0	0	80	100000	21600	0	0	0
7	0	0	0	30	91000	7370	0	0	0
8	0	0	0	60	73000	11800	0	0	0
9	0	0	0	150	77900	24100	0	0	0
10	0	0	0	10	77500	2090	0	0	0
11	0	0	0	1.0	61000	165	0	0	0
12	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0
19	4.7	4080	439	0	0	0	17	37900	4650
20	0	0	0	0	0	0	40	53300	6540
21	0	0	0	23	52400	5400	32	56700	5920
22	0	0	0	134	61700	56600	189	107000	67600
23	0	0	0	213	40800	41500	40	61000	6590
24	0	0	0	28	22400	1560	12	56500	1830
25	0	0	0	50	12200	14900	4.0	36500	394
26	0	0	0	171	35000	43000	0	0	0
27	0	0	0	0	0	0	0	0	0
28	.37	8790	309	0	0	0	0	0	0
29	24	63600	1460	57	38400	15600	0	0	0
30	.60	49000	79	2.0	5200	28	0	0	0
31	87	74500	30000	0	0	0	--	--	--
TOTAL	116.67	--	32287	2616.0	--	1012958	334.0	--	93524

08353000 RIO PUERCO NEAR BERNARDO, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	0	0	0	178	41000	19700			
2	0	0	0	77	21000	4370			
3	0	0	0	52	18500	2600			
4	0	0	0	20	17800	961			
5	0	0	0	10	16000	432			
6	0	0	0	1.0	15900	43			
7	.11	16600	22	0	0	0			
8	0	0	0	0	0	0			
9	0	0	0	0	0	0			
10	0	0	0	0	0	0			
11	112	61800	78100	0	0	0			
12	679	175000	370000	0	0	0			
13	354	106000	109000	0	0	0			
14	965	143000	402000	0	0	0			
15	265	53300	38800	0	0	0			
16	92	31000	7700	0	0	0			
17	15	23000	932	0	0	0			
18	2.0	19900	107	0	0	0			
19	0	0	0	0	0	0			
20	0	0	0	0	0	0			
21	0	0	0	0	0	0			
22	3.0	22000	178	0	0	0			
23	8.0	31000	670	0	0	0			
24	448	104000	134000	0	0	0			
25	65	87500	15400	0	0	0			
26	3.0	59000	478	0	0	0			
27	0	0	0	0	0	0			
28	0	0	0	0	0	0			
29	134	103000	48400	0	0	0			
30	239	101000	111000	0	0	0			
31	582	167000	334000						
TOTAL	3966.11	--	1650787	338.0	--	28106	0	--	0

CAL YR 1974 TOTAL WATER DISCHARGE (CFS-DAYS)
 CAL YR 1974 TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)

7377.21
 2820281

WTR YR 1974 TOTAL WATER DISCHARGE (CFS-DAYS)
 WTR YR 1974 TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)

3073.10
 1141388

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PEN- DED SEDI- MENT (MG/L) (80154)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN .002 MM (70337)	SUS. SED. FALL DIAM. % FINER THAN .004 MM (70338)
JULY							
19...	1145	19.0	17	25900	1190	73	83
AUG.							
04...	1300	20.0	2980	179000	1440000	41	50
22...	0800	18.0	3.3	65400	583	64	78
SEP.							
22...	1630	15.0	184	100000	49700	54	63
OCT.							
12...	1130	15.0	685	143000	264000	42	47
NOV.							
01...	1630	10.0	37	53700	5360	53	67

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM (70339)	SUS. SED. FALL DIAM. % FINER THAN .016 MM (70340)	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN .250 MM (70344)	SUS. SED. FALL DIAM. % FINER THAN .500 MM (70345)
JULY						
19...	100	--	--	--	--	--
AUG.						
04...	--	69	87	95	99	100
22...	--	98	99	100	--	--
SEP.						
22...	--	83	97	99	100	--
OCT.						
12...	--	60	87	97	100	--
NOV.						
01...	--	81	90	97	100	--

08354000 RIO SALADO NEAR SAN ACACIA, N. MEX.

LOCATION.--Lat 34°17'50", long 106°53'59", in NW¼ sec.24, T.1 N., R.1 W., Socorro County, at gaging station at former bridge site, 0.3 mi (0.5 km) upstream from bridge on Interstate Highway 25, 3.1 mi (5.0 km) upstream from mouth, 2.9 mi (4.7 km) north of San Acacia, and 15 mi (24 km) north of Socorro.

DRAINAGE AREA.--1,380 mi² (3,570 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: July to September 1956, June 1966 to current year.
Sediment records: July 1948 to current year.

REMARKS.--Samples are collected when flow is observed on this ephemeral stream.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NESIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED POT- ASS- SODIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
JULY											
15...	A 1630	12	20	--	240	56	250	9.6	494	670	190
19...	B 1400	10	23	--	200	48	360	10	440	570	370
30...	C 1130	152	19	--	170	37	220	8.0	258	660	130
AUG.											
02...	D 1400	500	17	--	190	40	210	4.2	330	660	110
SEP.											
20...	E 1630	64	8.0	20	19	3.2	29	3.0	111	35	18
OCT.											
08...	F 1100	9.1	11	20	96	19	150	5.9	174	330	120

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHQS) (00095)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (MG/L) (01020)
JULY											
15...	.6	.35	--	--	1680	830	420	3.8	2430	20.0	--
19...	.6	.25	--	--	1800	700	340	5.9	2800	30.5	--
30...	.6	.31	--	--	1370	580	370	4.0	1990	25.0	--
AUG.											
02...	.6	.04	--	--	1390	640	370	3.6	2020	20.0	--
SEP.											
20...	.6	.14	.00	127	171	61	0	1.6	275	18.0	120
OCT.											
08...	.7	.15	.01	864	819	320	180	3.7	1320	15.0	150

A	OTHER VALUES:	PH (UNITS)(00400)	7.7;	CARBONATE (CO3)(MG/L)	0
B	"	"	"	"	0
C	"	"	"	"	0
D	"	"	"	"	0
E	"	"	"	"	0
F	"	"	"	"	0

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PEN- DED SEDI- MENT (MG/L) (80154)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (7/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN .002 MM (70337)	SUS. SED. FALL DIAM. % FINER THAN .004 MM (70338)	SUS. SED. FALL DIAM. % FINER THAN .016 MM (70340)	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70343)
JULY										
15...	1630	20.0	12	121000	3920	--	--	--	--	--
22...	1400	28.0	10	122000	3290	--	--	--	--	--
30...	1130	25.0	152	75900	31100	57	73	95	99	100
AUG.										
02...	1400	20.0	500	130000	176000	--	--	--	--	--
OCT.										
08...	1100	15.0	9.1	70500	1730	--	--	--	--	--

RIO GRANDE BASIN

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08354800 RIO GRANDE CONVEYANCE CHANNEL AT SAN ACACIA, N. MEX.

LOCATION.--Lat 34°14'54", long 106°54'04", in SW¼ sec.1, T.1 S., R.1 W., Socorro County, about 100 ft (30 m) downstream from gaging station, at downstream side of railway crossing, 0.5 mi (0.8 km) south of San Acacia, and 1.2 mi (1.9 km) downstream from San Acacia diversion dam.

PERIOD OF RECORD.--Specific conductance: October 1964 to current year.

Water temperatures: May 1959 to current year.

Sediment records: January 1959 to current year.

EXTREMES:

Current year:

Specific conductance: Maximum daily, 1,990 micromhos July 31; minimum daily, 468 micromhos Jan. 2.

Water temperatures: Maximum, 33.0°C June 19, 23; minimum, freezing point Jan. 2.

Sediment concentrations: Maximum daily, 76,100 mg/l Aug. 23; minimum daily, 21 mg/l June 2, 24.

Sediment discharge: Maximum daily, 132,000 tons (120,000 tonnes) Oct. 14; minimum daily, .05 ton (.04 tonne) June 23, 24.

Period of record:

Specific conductance: Maximum daily, 3,840 micromhos Oct. 8, 1964; minimum daily, 136 micromhos June 19, 1967.

Water temperatures: Maximum, 36.0°C July 13, 1970; minimum, freezing point on several days during 1967-1969, 1971-1974.

Sediment concentrations: Maximum daily, 141,000 mg/l Aug. 10, 1959; minimum daily, no flow on many days during most years.

Sediment discharge: Maximum daily, 528,000 tons (479,000 tonnes) Aug. 28, 1972; minimum daily, 0 tons (0 tonnes) on many days during most years.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE=DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	469	660	623	597	840	900	1040	1600	690	942	1090	758
2	468	775	635	600	775	890	940	1970	720	935	995	755
3	471	555	630	730	708	895	940	1410	815	935	905	745
4	493	555	623	555	710	895	1090	---	880	940	865	757
5	505	583	615	545	715	905	1050	1520	880	980	869	730
6	505	607	630	587	713	915	1070	1810	890	933	835	745
7	514	618	615	590	690	935	1060	945	918	937	815	740
8	534	605	610	608	710	925	1060	940	918	937	795	738
9	515	600	605	670	691	930	930	1000	942	945	805	730
10	525	600	555	685	693	940	1110	900	948	905	755	730
11	545	610	570	730	775	885	1150	900	960	870	775	723
12	555	605	527	705	770	950	1070	910	1020	1190	770	723
13	565	630	620	735	790	975	750	920	1030	1200	783	730
14	562	635	643	740	810	935	708	990	1000	1530	785	723
15	563	633	607	730	840	972	745	970	995	1190	785	728
16	572	613	620	755	830	970	670	1000	1030	945	760	720
17	570	615	570	815	860	980	746	999	882	905	760	727
18	563	625	580	790	855	993	745	1100	820	903	760	727
19	560	1070	540	865	820	997	720	1180	842	915	760	720
20	552	1100	570	910	870	905	775	1090	733	885	860	730
21	553	630	595	895	770	1020	750	1160	938	890	758	729
22	510	625	610	893	750	1010	905	880	1050	868	765	740
23	542	630	615	890	797	1010	890	1000	1050	1060	760	735
24	545	627	575	935	815	1130	965	920	987	970	768	727
25	548	627	571	910	778	1130	968	835	860	960	775	683
26	553	620	565	895	774	1150	1030	785	827	895	755	695
27	550	633	560	886	805	1080	985	845	945	895	760	710
28	553	628	580	880	810	1090	1030	845	880	1210	760	720
29	553	---	578	883	840	1070	1050	845	905	1270	755	735
30	545	---	600	843	880	1040	1050	750	920	935	755	745
31	555	---	597	---	880	---	1990	690	---	970	---	743
MONTH	536	654	595	762	786	981	967	1060	909	995	805	730
YEAR	MAX	1990	MIN	468	MEAN	815						

RIO GRANDE BASIN

08354800 RIO GRANDE CONVEYANCE CHANNEL AT SAN ACACIA, N. MEX.--Continued

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.0	9.0	10.0	18.0	23.0	26.0	28.0	26.0	24.0	22.0	12.0	5.0
2	0.0	9.0	14.0	13.0	24.0	25.0	30.0	25.0	23.0	23.0	12.5	7.0
3	4.0	7.0	15.5	12.0	23.0	26.0	29.0	20.0	23.0	19.0	13.0	7.5
4	1.0	8.0	13.0	13.5	23.0	26.0	28.0	---	23.0	18.0	12.0	8.0
5	2.5	9.5	14.0	16.0	24.0	25.0	30.0	25.0	26.0	17.0	11.0	9.0
6	4.0	5.0	14.0	17.5	22.0	26.0	28.0	25.0	26.0	16.5	11.0	9.0
7	4.5	5.0	14.0	15.0	25.0	26.0	26.0	24.0	26.0	16.0	11.0	8.5
8	5.0	6.0	14.0	16.0	25.0	22.0	25.0	25.0	27.0	19.0	14.5	4.0
9	8.0	8.0	13.5	15.0	27.0	24.0	26.0	26.0	28.0	22.0	14.0	3.0
10	8.0	9.0	11.0	15.0	23.0	25.0	26.0	24.0	26.0	18.5	12.0	5.0
11	7.5	10.0	15.0	15.0	23.0	26.0	25.0	23.0	26.0	17.0	12.0	4.5
12	9.0	10.0	16.0	17.5	21.0	28.0	25.0	24.0	28.0	17.0	12.0	5.0
13	7.0	12.0	17.5	17.0	23.0	28.5	27.0	24.0	19.0	16.0	12.0	5.0
14	8.0	11.0	17.0	16.0	25.0	28.0	28.0	15.0	17.0	16.5	11.5	5.5
15	8.0	11.5	18.5	19.0	24.0	30.0	23.0	24.0	18.0	16.0	12.0	6.0
16	8.5	12.0	18.5	18.0	25.0	30.0	26.0	26.0	19.5	18.0	12.0	5.0
17	9.0	9.5	17.0	21.0	23.0	28.0	26.0	25.0	20.0	18.0	13.0	6.0
18	8.0	9.0	18.0	19.0	23.0	30.0	27.0	25.0	16.0	17.5	13.0	5.5
19	9.0	11.0	17.5	17.0	21.0	33.0	24.0	24.0	23.0	17.0	12.0	6.0
20	8.0	7.0	13.0	20.0	23.0	32.0	27.0	24.0	15.0	17.0	12.5	7.0
21	9.0	10.5	16.0	19.0	24.0	32.0	28.0	24.5	14.5	16.5	12.0	7.0
22	8.0	10.0	15.0	22.0	24.0	32.0	29.0	23.0	14.0	15.0	11.0	7.5
23	6.0	8.0	16.0	20.0	25.0	33.0	28.0	23.5	20.0	15.0	8.0	5.0
24	6.0	10.0	16.5	19.0	24.0	30.0	29.0	25.0	22.0	16.5	10.0	4.0
25	5.5	10.0	18.0	20.0	25.0	31.0	25.0	25.0	23.0	15.0	9.0	5.0
26	7.0	13.0	17.0	21.0	27.0	32.0	28.0	24.0	22.0	14.0	11.5	2.0
27	6.0	13.5	18.0	19.0	25.0	32.0	29.0	23.0	21.0	13.0	8.0	4.0
28	7.0	16.0	18.5	18.5	25.0	32.0	28.0	24.0	20.0	12.5	6.0	1.0
29	6.5	---	19.0	24.0	25.0	30.0	27.0	24.5	22.0	12.0	7.0	3.5
30	7.0	---	18.0	20.0	26.0	30.5	30.0	27.0	22.5	13.0	7.5	4.0
31	8.0	---	18.0	---	27.5	---	28.5	27.0	---	12.0	---	4.5
MONTH	6.5	9.5	16.0	18.0	24.0	28.5	27.0	24.0	22.0	16.5	11.0	5.5
YEAR	MAX	33.0	MIN	0.0	MEAN	17.5						

SUSPENDED-SEDIMENT DISCHARGE. CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1780	2970	14300	1400	2590	9790	567	750	1150
2	1780	3520	16900	1310	2970	10500	511	760	1050
3	1750	4240	20000	1340	3100	11200	564	625	952
4	1670	5480	24700	1380	2950	11000	605	450	735
5	1530	6800	28100	1210	4380	14300	593	350	560
6	1410	6430	24500	982	5540	14700	513	480	665
7	1360	4200	15400	903	5640	13800	463	530	663
8	1550	3800	15900	880	4200	9980	444	1050	1260
9	1590	3810	16400	888	1880	4510	408	1400	1540
10	1620	3680	16100	888	4270	10200	405	825	902
11	1610	3800	16500	807	4570	9960	511	496	656
12	1560	4420	18600	837	4370	9880	789	1010	2150
13	1550	4200	17600	835	3950	8910	646	610	1060
14	1420	4280	16400	825	3780	8420	612	560	925
15	1440	3580	13900	802	4100	8880	567	780	1190
16	1510	4320	18400	857	2440	5650	549	840	1250
17	1480	4520	18100	873	2800	6600	557	1080	1550
18	1460	4100	16200	870	3400	7990	649	1300	2280
19	1460	3620	14300	832	3650	8200	751	1400	2840
20	1470	2930	11600	832	3310	7440	795	1390	2980
21	1460	3770	14900	827	3550	7930	746	1290	2600
22	1440	3930	15300	825	3810	8490	624	1030	1740
23	1510	2910	11900	802	3250	7040	590	950	1510
24	1520	3650	15000	800	2860	6180	639	835	1440
25	1480	3960	15800	777	2410	5060	683	800	1480
26	1440	4790	18600	761	1890	3880	748	1280	2590
27	1420	4270	16400	721	1550	3020	718	1150	2230
28	1420	4320	16600	627	970	1640	718	1760	3410
29	1470	3350	13300	--	--	--	742	1750	3510
30	1380	3810	12000	--	--	--	760	1810	3710
31	1350	3460	12600	--	--	--	692	1750	3270
TOTAL	46890	--	516300	25691	--	235150	19159	--	53848

08354800 RIO GRANDE CONVEYANCE CHANNEL AT SAN ACACIA, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	718	3750	7270	59	120	19	2.6	23	.16
2	812	3300	7230	94	274	70	2.3	21	.13
3	922	6200	15400	186	640	321	2.3	29	.18
4	1020	2920	8040	272	1080	793	2.3	70	.43
5	941	2420	6150	250	1440	972	2.3	79	.49
6	802	2750	5950	228	1340	825	2.0	48	.26
7	658	2680	4760	234	1270	802	2.3	47	.29
8	493	4070	5420	200	1040	562	2.3	55	.34
9	302	1760	1440	230	695	432	2.3	37	.23
10	259	1390	972	238	500	321	2.3	39	.24
11	171	1370	633	172	245	114	2.3	49	.30
12	175	930	439	112	200	60	2.0	43	.23
13	110	970	288	60	198	32	2.3	43	.27
14	117	990	313	22	170	10	2.0	50	.27
15	156	950	400	4.5	71	.86	1.5	45	.18
16	92	339	84	.85	57	.13	1.5	64	.26
17	35	171	16	1.0	44	.12	1.5	47	.19
18	51	192	26	1.0	45	.12	1.5	55	.22
19	23	171	11	2.0	31	.17	1.8	48	.23
20	18	110	5.3	5.0	34	.46	1.0	30	.08
21	19	142	7.3	49	145	19	1.0	25	.07
22	18	104	5.1	47	170	22	.85	24	.06
23	18	80	3.9	34	120	11	.67	25	.05
24	11	56	1.7	6.2	72	1.2	.85	21	.05
25	7.5	47	.95	3.0	168	1.4	1.5	22	.09
26	4.9	86	1.1	10	218	5.9	1.5	28	.11
27	3.3	62	.55	42	109	12	1.5	28	.11
28	3.0	51	.41	6.6	75	1.3	1.5	38	.15
29	3.3	46	.41	3.7	51	.51	1.8	40	.19
30	24	88	5.7	2.6	42	.29	1.3	44	.15
31	--	--	--	2.6	25	.18	--	--	--
TOTAL	7987.0	--	64874.42	2578.05	--	5409.64	52.87	--	6.01
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.3	40	.14	1.8	8500	41	316	4400	3750
2	.85	50	.11	213	41200	43600	257	3150	2190
3	.85	53	.12	559	57400	104000	123	1400	465
4	.85	41	.09	269	37400	29600	70	1090	206
5	.85	29	.07	67	26000	4700	42	550	62
6	.85	38	.09	51	32500	4480	32	426	37
7	.85	46	.11	35	15000	1420	31	425	36
8	.85	59	.14	29	11500	900	20	401	22
9	1.0	84	.23	28	10100	764	15	370	15
10	.50	66	.09	20	8300	448	12	342	11
11	.67	47	.09	15	13300	539	10	355	9.6
12	.67	150	.27	12	1190	39	9.0	300	7.3
13	2.0	500	2.7	10	960	26	7.5	315	6.4
14	3.0	640	5.2	9.5	730	19	7.5	412	8.3
15	213	2100	1210	9.0	910	22	6.6	437	7.8
16	257	2500	1730	9.0	690	17	11	3600	107
17	145	830	325	10	2900	78	110	8330	4680
18	102	750	207	10	4500	122	100	8000	3820
19	225	4460	3330	9.5	9800	251	116	5000	1570
20	300	3200	2590	14	7390	908	393	23300	45700
21	202	4280	2600	28	25800	2490	516	27200	47300
22	26	3100	218	102	23900	18900	432	18500	24800
23	100	1240	547	316	76100	80500	307	14600	12700
24	4.1	75	.83	81	13000	2840	280	5340	4040
25	3.0	64	.52	99	6000	1600	274	8600	6360
26	2.3	53	.33	373	56600	72600	231	4060	2640
27	1.5	108	.44	231	4130	2580	217	3700	2170
28	1.5	92	.37	137	2550	943	147	3250	1290
29	1.8	74	.36	194	5920	3960	134	3400	1230
30	1.5	62	.25	187	4220	2130	67	2020	365
31	.67	46	.08	241	4090	2660	--	--	--
TOTAL	1601.46	--	12769.63	3369.8	--	383177	4293.6	--	165605.4

RIO GRANDE BASIN

08354800 RIO GRANDE CONVEYANCE CHANNEL AT SAN ACACIA, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	39	780	82	542	31500	47400	540	3500	5100
2	15	273	11	484	19500	25500	540	4700	6850
3	16	229	9.9	440	10000	11900	552	4200	6260
4	22	472	28	419	9200	10400	571	3190	4920
5	100	618	209	459	9900	12300	564	3950	6020
6	92	610	147	517	11700	16300	576	3450	5370
7	70	15500	3250	558	8200	12400	593	3550	5680
8	147	10500	4030	569	8000	12300	622	3100	5210
9	153	3300	1360	604	9320	15200	618	1950	3250
10	205	3690	2210	609	6140	10100	661	4270	7890
11	237	2900	1860	685	7500	13900	669	7150	12900
12	681	33500	62900	657	7000	12400	666	6780	12200
13	551	31600	47000	638	9100	15700	656	6430	11400
14	985	49700	132000	629	7350	12500	649	6450	11300
15	617	30000	50000	628	3340	5660	645	7900	13800
16	351	12100	11500	616	4420	7350	649	7200	12600
17	280	7600	5750	616	4700	7820	629	5700	9680
18	255	4400	3030	606	4000	6540	636	5620	9650
19	196	4400	2330	596	5650	9090	654	4760	8410
20	167	9000	4060	593	4550	7290	663	5000	8950
21	145	3400	1330	593	3720	5960	664	4400	7890
22	221	3500	2090	566	5150	7870	664	5300	9500
23	413	26400	33400	567	5350	8190	664	4960	8890
24	686	42700	78500	554	5580	8350	684	4600	8500
25	496	20500	27500	535	3730	5390	691	3900	7280
26	251	10000	6780	542	4500	6590	701	3000	5680
27	321	10500	9100	532	4430	6360	698	3390	6390
28	410	19400	21500	548	5050	7470	666	3520	6330
29	521	32500	48100	542	4500	6590	631	3450	5880
30	531	24000	34400	540	3560	5190	595	3170	5090
31	733	40200	86300	--	--	--	589	2830	4500
TOTAL	9907	--	680766.9	16984	--	340010	19600	--	243370
CAL YR 1974	TOTAL WATER DISCHARGE (CFS-DAYS)								158113.78
CAL YR 1974	TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)								2701287
WTR YR 1974	TOTAL WATER DISCHARGE (CFS-DAYS)								202550.78
WTR YR 1974	TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)								2442057.10

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPERATURE (DEG C) (00010)	INSTAN- TANE- OUS DIS- CHARGE (CFS) (00061)	SUS- PENDED SEDI- MENT (MG/L) (80154)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER .002 MM (70337)	SUS. SED. FALL DIAM. % FINER .004 MM (70338)	SUS. SED. FALL DIAM. % FINER .016 MM (70340)	SUS. SED. FALL DIAM. % FINER .062 MM (70342)
JAN.									
17...	1715	9.0	1470	4120	16400	5	5	7	19
31...	1720	8.0	1330	3520	12600	3	5	6	19
FEB.									
13...	1725	12.0	833	3570	8030	3	3	4	13
28...	1640	15.0	600	734	1190	16	18	22	27
MAR.									
12...	1745	10.0	768	824	1710	--	--	--	67
APR.									
03...	1845	12.0	930	21000	52700	3	4	10	41
15...	1715	19.0	164	921	408	--	--	--	--
MAY									
06...	2020	22.0	266	1280	919	--	--	--	30
JULY									
19...	1855	26.0	368	8440	8390	56	70	85	88
AUG.									
01...	2035	26.0	2.6	22300	157	74	89	99	100
02...	1545	26.0	493	147000	196000	51	61	86	94
03...	1515	22.5	955	109000	281000	39	51	75	93
23...	1805	23.5	88	38200	9080	50	63	83	95
SEP.									
18...	1855	16.0	246	24200	16100	48	64	90	98
OCT.									
13...	1815	16.0	548	33300	49300	59	72	90	98
NOV.									
01...	1530	12.0	370	23200	23200	53	64	82	92
21...	1705	12.0	580	3710	5810	19	19	26	67
DEC.									
10...	1635	5.0	680	7560	13900	9	12	14	49
28...	1530	1.0	708	3480	6650	11	13	17	39

RIO GRANDE BASIN

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08354800 RIO GRANDE CONVEYANCE CHANNEL AT SAN ACACIA, N. MEX.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN .250 MM (70344)	SUS. SED. FALL DIAM. % FINER THAN .500 MM (70345)	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM (70346)	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM (70347)	SUS. SED. FALL SIEVE DIAM. % FINER THAN .062 MM (70331)	SUS. SED. FALL SIEVE DIAM. % FINER THAN .125 MM (70332)	SUS. SED. FALL SIEVE DIAM. % FINER THAN .250 MM (70333)	SUS. SED. FALL SIEVE DIAM. % FINER THAN .500 MM (70334)
JAN. 17...	55	93	100	--	--	--	--	--	--
31...	47	88	99	100	--	--	--	--	--
FEB. 13...	34	83	98	99	100	--	--	--	--
28...	35	72	98	100	--	--	--	--	--
MAR. 12...	94	99	100	--	--	--	--	--	--
APR. 03...	94	100	--	--	--	--	--	--	--
15...	--	--	--	--	--	28	35	98	100
MAY 06...	49	83	99	100	--	--	--	--	--
JULY 19...	95	100	--	--	--	--	--	--	--
AUG. 01...	--	--	--	--	--	--	--	--	--
02...	96	100	--	--	--	--	--	--	--
03...	98	100	--	--	--	--	--	--	--
23...	99	100	--	--	--	--	--	--	--
SEP. 18...	100	--	--	--	--	--	--	--	--
OCT. 13...	100	--	--	--	--	--	--	--	--
NOV. 01...	93	98	100	--	--	--	--	--	--
21...	95	100	--	--	--	--	--	--	--
DEC. 10...	90	99	100	--	--	--	--	--	--
28...	66	94	100	--	--	--	--	--	--

RIO GRANDE BASIN

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, N. MEX.

LOCATION.—Lat 34°15'23", long 106°53'18", Socorro County, in Sevilleta Grant, at gaging station, 0.2 mi (0.3 km) below San Acacia diversion dam, 0.3 mi (0.5 km) east of San Acacia, and 2 mi (3 km) downstream from Rio Salado, and at mile 1,472.6 (2,369.4 km).

DRAINAGE AREA.—26,770 mi² (69,330 km²), approximately, including 2,940 mi² (7,610 km²) in closed basin in San Luis Valley, Colo.

PERIOD OF RECORD.—Chemical analyses: July to December 1937, March 1939 to September 1956.

Specific conductance: July to December 1937, March 1939 to September 1956, October 1964 to current year.

Water temperatures: October 1947 to August 1956, January 1959 to current year.

Sediment records: July 1946 to June 1956, January 1959 to current year.

EXTREMES:

Current year:

Specific conductance: Maximum daily, 2,620 micromhos Aug. 4; minimum daily, 464 micromhos Jan. 2.

Water temperatures: Maximum, 33.0°C June 19; minimum, freezing point Jan. 2, 3.

Sediment concentrations: Maximum daily, 79,200 mg/l Aug. 5; minimum daily, 32 mg/l June 11.

Sediment discharge: Maximum daily, 167,000 tons (152,000 tonnes) Aug. 4; minimum daily, .08 ton (.07 tonne) Feb. 10.

Period of record:

Specific conductance (1937, 1939-56, 1964-74): Maximum daily, 3,700 micromhos July 14, 1940; minimum daily, 236 micromhos May 17, 1942.

Water temperatures: Maximum, 34.5°C July 13, 1971; minimum (1947-56, 1959-62, 1964-74), freezing point on many days during winter months.

Sediment concentrations: Maximum daily, 223,000 mg/l Aug. 11 1946; minimum daily, no flow on many days of most years.

Sediment discharge: Maximum daily, 1,760,000 tons (1,600,000 tonnes) Aug. 12, 1955, minimum daily, 0 tons (0 tonnes) on many days of most years.

REMARKS.—Additional sediment total discharge determinations were made bi-weekly when needed.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE=DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	472	765	650	615	890	770	940	1390	690	885	1330	945
2	464	575	645	570	830	780	1040	2530	810	895	1020	775
3	480	765	647	570	844	775	1030	1490	810	905	935	785
4	585	773	635	560	760	865	940	2620	845	918	885	820
5	590	700	620	573	765	925	925	1810	850	935	883	895
6	592	820	610	575	768	920	920	1150	835	920	865	905
7	570	935	617	617	715	925	915	890	870	945	1170	890
8	603	970	610	640	745	925	870	975	873	946	1260	885
9	565	975	610	715	715	900	840	895	895	925	1250	860
10	557	975	615	700	710	900	830	860	895	895	1290	865
11	575	690	607	755	700	940	830	855	910	863	1390	960
12	605	755	540	750	740	853	850	875	951	1520	1390	955
13	605	755	625	785	760	880	695	855	975	1530	1070	980
14	608	735	640	790	785	895	695	905	932	1540	1080	990
15	611	823	652	750	795	930	670	945	930	1220	1080	995
16	620	840	630	775	820	905	650	960	980	1240	1030	775
17	625	850	575	830	890	910	750	965	870	941	1020	773
18	634	850	595	800	840	910	725	1000	850	915	1050	835
19	627	700	570	895	830	995	830	1000	825	915	1030	910
20	633	705	595	905	805	970	760	1000	813	900	1030	912
21	653	705	625	920	743	935	740	1100	905	895	763	1010
22	770	730	630	885	720	895	880	865	1080	875	805	1030
23	625	800	620	875	775	900	840	1000	1040	1070	925	1030
24	647	775	608	910	790	905	895	940	970	1190	905	990
25	645	675	605	915	760	925	890	800	846	989	900	908
26	785	715	585	935	760	930	940	775	808	932	900	923
27	765	685	580	900	785	920	935	830	840	930	920	924
28	750	628	581	910	745	910	975	835	855	1150	935	910
29	740	---	590	910	800	950	975	855	875	1160	930	945
30	755	---	700	870	760	905	1470	755	890	1070	940	902
31	703	---	615	---	760	---	1000	700	---	1310	---	---
MONTH	628	774	614	773	778	902	879	1080	884	1040	1030	909
YEAR	MAX	2620	MIN	464	MEAN	858						

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, N. MEX.--Continued

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.0	9.0	10.0	18.0	23.0	26.0	28.0	26.0	24.0	22.0	12.0	5.0
2	0.0	9.0	14.0	13.0	24.0	25.0	30.0	26.0	23.0	23.0	12.5	7.0
3	0.0	7.0	15.5	12.0	23.0	26.0	29.0	20.0	23.0	19.0	13.0	7.5
4	1.0	8.0	14.0	13.5	23.0	26.0	28.0	21.0	23.0	18.0	12.0	8.0
5	2.5	9.5	14.0	16.0	24.0	25.0	30.0	25.0	26.0	17.0	11.5	9.0
6	4.0	5.0	14.0	17.5	22.0	26.0	28.0	25.0	26.0	16.5	11.0	9.0
7	4.5	5.0	14.0	15.0	25.0	26.0	26.0	24.0	26.0	16.0	11.0	8.5
8	6.0	6.0	14.0	16.0	25.0	22.0	25.0	20.0	27.0	19.0	14.5	4.0
9	8.0	8.0	13.5	15.0	27.0	24.0	26.0	26.0	28.0	22.0	14.0	3.0
10	8.0	9.0	11.0	15.0	23.0	25.0	20.0	24.0	26.0	18.5	12.5	5.0
11	---	10.0	15.0	15.0	23.0	26.0	25.0	23.0	26.0	17.0	12.0	4.5
12	9.0	10.0	16.0	17.5	21.0	28.0	25.0	24.0	28.0	17.0	12.0	5.0
13	7.0	12.0	17.5	17.0	23.0	28.5	27.0	24.0	19.0	16.0	12.0	5.0
14	8.0	11.0	17.0	16.0	25.0	28.0	28.0	25.0	17.0	16.5	11.5	5.5
15	8.0	11.5	18.5	19.0	24.0	30.0	23.0	24.0	18.0	16.0	12.0	6.0
16	8.5	12.0	18.5	18.0	25.0	30.0	26.0	26.0	19.5	18.0	12.0	5.0
17	9.0	9.5	17.0	21.0	23.0	28.0	26.0	25.0	20.0	18.0	13.0	6.0
18	8.0	9.0	18.0	19.0	23.0	30.0	27.0	25.0	16.0	17.5	13.0	5.5
19	9.0	11.0	17.5	17.0	21.0	33.0	26.0	24.0	23.0	18.0	12.0	6.0
20	8.0	7.0	13.0	20.0	23.0	32.0	27.0	24.0	15.0	17.0	12.0	7.0
21	9.0	10.5	16.0	19.0	24.0	32.0	28.0	24.5	14.5	16.5	12.0	9.0
22	8.0	10.0	15.0	22.0	24.0	32.0	29.0	23.0	14.0	15.0	11.0	7.5
23	6.0	8.0	16.0	20.0	25.0	23.0	28.0	23.5	20.0	15.0	8.0	5.0
24	6.0	10.0	16.5	19.0	24.0	30.0	29.0	25.0	22.0	16.5	10.0	4.0
25	5.5	10.0	18.0	20.0	25.0	31.0	25.0	25.0	23.0	15.0	9.0	5.0
26	7.0	13.0	17.0	21.0	27.0	32.0	28.0	24.0	22.0	14.0	11.5	2.0
27	6.0	13.5	18.0	19.0	25.0	32.0	29.0	23.0	21.0	13.0	8.0	4.0
28	7.0	15.0	18.5	18.5	25.0	32.0	28.0	24.0	20.0	12.5	6.0	1.0
29	6.5	---	19.0	24.0	25.0	30.0	27.0	24.5	22.0	12.0	7.5	3.5
30	7.0	---	18.0	20.0	26.0	30.5	26.0	27.0	22.5	9.0	7.5	4.0
31	8.0	---	18.5	---	27.5	---	28.5	27.0	---	12.0	---	4.5
MONTH	6.0	9.5	16.0	18.0	24.0	28.5	27.0	24.0	22.0	16.5	11.0	5.5
YEAR	MAX	33.0	MIN	0.0	MEAN	17.5						

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	18	630	31	2.8	178	1.3	31	2650	248
2	15	700	28	2.6	174	1.2	34	800	73
3	13	720	25	2.3	155	.96	33	2200	196
4	13	430	15	2.3	95	.59	36	1840	216
5	12	850	28	3.0	147	1.4	32	390	34
6	11	2630	78	2.9	181	1.4	33	627	85
7	11	500	15	2.0	98	.53	30	860	70
8	17	440	20	1.2	33	.11	34	390	36
9	17	324	15	.85	54	.12	38	340	35
10	17	260	12	.79	37	.08	38	313	32
11	19	317	16	1.9	79	.63	42	424	48
12	16	306	13	3.2	99	.86	34	482	50
13	13	389	14	2.6	113	.79	33	490	44
14	11	405	12	2.6	130	.91	34	292	27
15	12	380	12	2.2	93	.55	35	356	34
16	11	325	9.7	1.6	73	.32	31	285	24
17	10	280	7.6	1.7	54	.25	32	228	20
18	8.4	237	5.4	1.6	45	.19	30	220	18
19	7.8	199	4.2	3.0	107	1.2	33	218	19
20	7.6	159	3.3	3.5	137	1.3	31	304	25
21	6.9	283	5.3	3.3	138	1.2	30	195	16
22	7.6	255	5.2	3.2	154	1.3	30	233	19
23	7.8	234	4.9	2.8	157	1.2	31	205	17
24	6.6	158	2.8	2.3	125	.78	30	195	16
25	5.2	163	2.3	4.4	152	2.1	26	203	14
26	3.5	200	1.9	4.9	134	1.8	26	173	12
27	2.8	200	1.5	16	730	195	32	195	17
28	2.1	166	.94	31	7150	634	26	358	25
29	2.0	167	.90	--	--	--	32	344	30
30	2.0	97	.52	--	--	--	31	217	18
31	2.8	160	1.9	--	--	--	30	280	23
TOTAL	309.1	--	392.36	112.54	--	872.07	998	--	1541

RIO GRANDE BASIN

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	32	740	64	16	88	3.8	26	391	27
2	57	1290	222	17	80	3.7	28	399	30
3	42	2410	312	32	219	20	31	345	29
4	50	525	71	21	184	10	33	150	13
5	41	200	22	25	195	13	14	90	3.4
6	45	240	29	29	522	44	4.5	89	1.1
7	40	224	24	28	380	29	3.9	75	.79
8	38	176	18	29	215	17	3.4	85	.78
9	39	265	28	35	215	20	2.9	60	.47
10	65	354	62	36	210	20	2.7	39	.28
11	48	213	28	42	417	46	2.3	32	.20
12	50	222	30	38	630	65	2.2	55	.33
13	45	128	16	51	240	33	2.1	55	.31
14	41	140	15	37	280	28	1.7	73	.34
15	47	142	18	35	285	27	1.4	62	.23
16	42	140	16	31	240	20	1.3	60	.21
17	36	130	13	15	290	12	1.2	65	.21
18	38	151	15	16	220	9.5	1.3	87	.31
19	26	157	11	14	240	9.1	1.6	59	.25
20	25	68	4.6	21	175	9.9	1.6	52	.22
21	22	78	4.6	42	215	27	1.6	69	.30
22	25	90	6.1	51	230	32	1.7	81	.37
23	20	76	4.1	38	140	14	1.9	80	.41
24	12	72	2.3	36	118	11	2.0	93	.50
25	10	57	1.5	39	150	16	2.2	109	.65
26	11	90	2.7	43	167	19	2.3	179	1.1
27	10	87	2.3	39	137	14	2.3	135	.84
28	11	70	2.1	32	156	13	2.2	97	.58
29	12	67	2.2	28	145	11	2.2	88	.52
30	14	86	3.3	31	124	10	2.0	79	.43
31	--	--	--	27	133	9.7	--	--	--
TOTAL	994	--	1049.8	974	--	616.7	186.5	--	114.13

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.9	71	.36	3.3	13600	121	18	1080	69
2	1.7	53	.24	50	48400	17900	17	4640	239
3	1.7	37	.17	146	55900	25500	17	800	37
4	1.8	68	.33	625	68700	167000	12	533	17
5	1.8	64	.31	494	79200	114000	17	490	22
6	1.9	52	.27	166	40000	17900	9.2	440	11
7	1.8	55	.27	119	26800	10000	8.3	445	13
8	2.0	72	.39	132	22000	7840	5.8	395	6.2
9	2.2	134	.80	177	25900	13300	4.6	355	4.4
10	2.5	215	1.5	82	17500	3870	4.6	345	4.3
11	2.6	165	1.2	29	2790	218	4.3	412	4.8
12	3.0	145	1.2	18	910	44	4.1	458	5.1
13	4.7	355	4.5	19	490	25	7.1	660	21
14	9.5	521	21	21	520	29	9.7	330	8.6
15	10	890	24	21	640	36	6.5	1120	21
16	7.3	570	11	19	650	33	12	1280	82
17	16	448	32	14	1350	51	29	1900	220
18	14	240	9.1	9.9	1630	44	11	5210	164
19	13	3330	117	11	1850	55	7.3	2050	40
20	11	1000	53	12	1190	39	90	4490	3160
21	13	3260	144	9.2	1030	36	6.2	1490	45
22	11	4300	128	72	10500	13600	3.1	2850	24
23	8.6	1950	45	137	20000	9160	20	5480	410
24	8.3	430	9.6	18	6500	526	22	4300	255
25	8.3	184	4.1	59	3380	690	24	2430	157
26	7.8	202	4.3	124	5010	3320	36	2340	293
27	7.7	199	4.1	22	1550	106	31	1070	90
28	7.5	202	4.1	31	1980	175	67	597	102
29	7.0	200	3.8	26	4030	376	40	466	52
30	22	18800	2550	20	1600	86	22	480	29
31	5.2	2900	41	26	1420	110	--	--	--
TOTAL	216.8	--	3216.64	2712.4	--	406190	565.8	--	5606.4

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	21	430	24	30	8070	1600	2.3	250	1.6
2	19	612	34	3.5	2400	23	3.0	1850	15
3	26	475	33	1.2	5500	18	4.0	1100	12
4	25	940	63	2.3	3160	24	3.0	2320	19
5	40	1450	224	3.9	2580	25	2.5	1370	9.2
6	16	1480	64	3.0	1200	9.7	2.5	520	3.5
7	32	2680	306	2.0	500	2.7	2.3	360	2.2
8	15	3240	125	2.0	367	2.0	2.0	361	1.9
9	9.4	1200	30	2.0	420	2.3	3.7	377	3.8
10	8.9	1280	29	2.0	357	1.9	3.5	356	3.4
11	7.8	8350	285	1.5	191	.77	2.7	199	1.5
12	95	58600	18400	1.5	141	.57	2.2	190	1.1
13	5.6	29300	464	1.5	142	.58	1.2	158	.51
14	78	44500	9340	1.6	132	.57	2.0	137	.74
15	7.4	14000	280	1.6	145	.63	2.6	131	.92
16	2.6	8300	58	1.7	151	.69	3.9	107	1.1
17	3.1	4310	29	1.7	136	.62	5.8	346	5.8
18	4.5	3060	37	1.8	160	.78	4.0	416	4.5
19	1.7	2400	11	1.8	184	.89	3.5	289	2.7
20	9.4	1740	39	1.8	147	.71	3.0	548	4.4
21	10	1240	35	5.0	640	8.6	2.6	163	1.1
22	11	1220	34	2.5	750	5.1	2.4	110	.71
23	16	4730	268	2.5	490	3.3	2.1	118	.67
24	61	14600	4420	2.5	423	2.9	1.9	93	.48
25	7.6	10500	227	2.3	433	2.7	1.9	105	.54
26	7.6	17000	349	2.3	495	3.1	1.8	123	.60
27	44	19000	2720	2.3	388	2.4	1.8	87	.42
28	8.9	16800	454	2.3	465	2.9	1.9	102	.52
29	17	17600	1260	2.5	1030	7.0	2.0	71	.38
30	15	10100	299	2.5	400	2.7	1.9	88	.45
31	203	16000	16300	--	--	--	1.8	101	.49
TOTAL	828.5	--	56241	95.1	--	1756.11	81.8	--	101.23
CAL YR 1974	TOTAL WATER DISCHARGE (CFS-DAYS)								8074.54
CAL YR 1974	TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)								477697.44
WTR YR 1974	TOTAL WATER DISCHARGE (CFS-DAYS)								8623.34
WTR YR 1974	TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)								422498.40

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDED SEDI- MENT CHARGE (MG/L) (80154)	SUS- PENDED SEDI- MENT CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN ,002 MM (70337)	SUS. SED. FALL DIAM. % FINER THAN ,004 MM (70338)	SUS. SED. FALL DIAM. % FINER THAN ,016 MM (70340)
JAN.								
15...	1750	8.0	11	369	11	41	53	60
29...	1800	6.5	2.3	109	.68	60	69	74
FEB.								
11...	1735	10.0	3.7	122	1.2	--	--	--
28...	1655	15.0	24	10200	661	2	2	2
MAR.								
10...	1810	11.0	56	313	47	--	--	--
APR.								
01...	1625	18.0	34	598	55	--	--	--
10...	1700	15.0	97	354	93	--	--	--
MAY								
03...	1700	23.0	32	199	17	--	--	--
JULY								
30...	1050	23.0	105	87100	24700	57	70	97
AUG.								
02...	1330	25.0	270	163000	119000	48	64	89
03...	1700	21.0	648	69300	121000	60	73	96
04...	1800	21.0	2980	128000	1030000	51	63	83
27...	1820	23.0	38	1670	171	62	74	85
SEP.								
18...	1840	16.0	10	12800	346	57	75	95
OCT.								
13...	1800	16.0	34	43400	3980	63	74	91
NOV.								
01...	1515	12.0	121	22700	7420	60	71	90
DEC.								
07...	1615	8.5	2.3	350	2.2	72	77	87

RIO GRANDE BASIN

08354900 RIO GRANDE FLOODWAY AT SAN ACACIA, N. MEX.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	SUS. SED. FALL DIAM. % FINER THAN ,062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN ,125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN ,250 MM (70344)	SUS. SED. FALL DIAM. % FINER THAN ,500 MM (70345)	SUS. SED. SIEVE DIAM. % FINER THAN ,062 MM (70331)	SUS. SED. SIEVE DIAM. % FINER THAN ,125 MM (70332)	SUS. SED. SIEVE DIAM. % FINER THAN ,250 MM (70333)	SUS. SED. SIEVE DIAM. % FINER THAN ,500 MM (70334)
JAN.								
15...	75	88	100	--	--	--	--	--
29...	--	--	--	--	84	94	99	100
FEB.								
11...	--	--	--	--	68	89	95	100
28...	13	75	99	100	--	--	--	--
MAR.								
10...	--	--	--	--	57	83	99	100
APR.								
01...	--	--	--	--	82	95	99	100
10...	--	--	--	--	97	100	--	--
MAY								
03...	--	--	--	--	84	96	97	100
JULY								
30...	100	--	--	--	--	--	--	--
AUG.								
02...	100	--	--	--	--	--	--	--
03...	100	--	--	--	--	--	--	--
04...	95	99	100	--	--	--	--	--
27...	--	--	--	--	93	97	100	--
SEP.								
18...	--	--	--	--	99	100	--	--
OCT.								
13...	100	--	--	--	--	--	--	--
NOV.								
01...	99	100	--	--	--	--	--	--
DEC.								
07...	--	--	--	--	97	99	100	--

RIO GRANDE BASIN

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08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, N. MEX.
(National stream-quality accounting network, irrigation,
surveillance, and radiochemical network station)

LOCATION.—Lat 33°41'07", long 106°59'40", Socorro County, in Pedro Armendaris Grant No. 34, at gaging station 0.4 mi (0.6 km) northwest of Atchison, Topeka and Santa Fe Railway Co. bridge over floodway channel, 1.0 mi (1.6 km) southwest of former site of San Marcial, 3.5 mi (5.6 km) downstream from railroad bridge near Tiffany siding, and 51 mi (82 km) downstream from heading at San Acacia.

PERIOD OF RECORD.—Chemical analyses: March 1954 to current year.

Specific conductance: March 1954 to current year.

Water temperatures: March 1954 to current year.

Sediment records: March 1954 to current year.

EXTREMES:

Current year:

Specific conductance: Maximum daily, 1,630 micromhos Aug. 3; minimum daily, 507 micromhos Jan. 2, 3.

Water temperatures: Maximum, 34.0°C June 19-21, 26; minimum, freezing point Jan. 3, 5.

Sediment concentrations: Maximum daily, 65,000 mg/l Aug. 4; minimum daily, No flow on many days during July to September.

Sediment discharge: Maximum daily, 133,000 tons (121,000 tonnes) Aug. 4; minimum daily, 0 tons (0 tonnes) on many days during July to September.

Period of record:

Specific conductance: Maximum daily, 2,860 micromhos Oct. 25, 1956; minimum daily, 353 micromhos Jan. 8, 1963.

Water temperatures: Maximum, 35.0°C on several days during 1955, 1963, and 1971; minimum, freezing point on many days during December and January of most years.

Sediment concentrations: Maximum daily, 144,000 mg/l Sept. 19, 1971; minimum daily, no flow on many days during 1956, 1958, 1963, 1964, 1968, 1969, 1971, 1972, and 1974.

Sediment discharge: Maximum daily, 638,000 tons (579,000 tonnes) Aug. 28 1972; minimum daily, 0 tons (0 tonnes) on many days during 1956, 1958, 1963, 1964, 1968, 1969, 1971, 1972, and 1974.

REMARKS.—Additional sediment total discharge determinations were made bi-weekly when needed. No flow July 6-9, 12, 13, July 29 to Aug. 1, Aug. 11 to Nov. 10, Nov. 13 to Dec. 31.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (000061)	DIS- SOLVED SILICA (SiO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
JAN.										
07...	1145	1380	--	--	--	--	--	--	--	--
21...	1200	1470	--	--	--	--	--	--	--	--
23...	1335	1490	26	0	--	57	10	48	4.3	168
FEB.										
04...	1300	1510	--	--	--	--	--	--	--	--
11...	1130	878	--	--	--	--	--	--	--	--
19...	1230	982	--	--	--	--	--	--	--	--
21...	0900	930	28	20	--	61	12	67	5.1	188
25...	1200	854	--	--	--	--	--	--	--	--
MAR.										
25...	1015	790	26	0	--	60	11	62	5.7	182
APR.										
08...	1045	714	--	--	--	--	--	--	--	--
15...	0930	364	--	--	--	--	--	--	--	--
23...	1035	134	27	10	20	82	16	95	5.9	232
29...	1000	172	--	--	--	--	--	--	--	--
MAY										
06...	0900	394	--	--	--	--	--	--	--	--
13...	0845	221	--	--	--	--	--	--	--	--
20...	0915	146	--	--	--	--	--	--	--	--
23...	0830	226	26	10	--	77	15	87	5.7	226
28...	0900	135	--	--	--	--	--	--	--	--
JUNE										
18...	1000	2.0	24	20	--	88	15	88	5.8	222
JULY										
25...	0945	134	27	80	--	87	16	98	7.2	259

RIO GRANDE BASIN

08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)
JAN.									
07...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
23...	0	110	30	.5	.41	.03	.73	.44	.07
FEB.									
04...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
21...	0	130	45	.7	.56	.03	.59	.59	.22
25...	--	--	--	--	--	--	--	--	--
MAR.									
25...	0	130	34	.7	.50	.01	.55	.51	.35
APR.									
08...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
23...	0	200	65	.5	.08	.00	.08	.08	.13
29...	--	--	--	--	--	--	--	--	--
MAY									
06...	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
23...	0	190	55	.6	.01	.00	.02	.01	.05
28...	--	--	--	--	--	--	--	--	--
JUNE									
18...	7	190	61	.6	.03	.00	.03	.03	.05
JULY									
25...	0	210	65	.6	.14	.00	.15	.14	.07

DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)
JAN.									
07...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
23...	.62	1.4	.80	.56	372	371	180	46	1.5
FEB.									
04...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
21...	.56	1.4	.76	.48	455	446	200	48	2.1
25...	--	--	--	--	--	--	--	--	--
MAR.									
25...	.54	1.4	.66	.34	440	423	200	46	1.9
APR.									
08...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
23...	.37	.58	.31	.15	609	607	270	80	2.5
29...	--	--	--	--	--	--	--	--	--
MAY									
06...	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
23...	.89	.96	.44	.17	571	568	250	69	2.4
28...	--	--	--	--	--	--	--	--	--
JUNE									
18...	.41	.49	.13	.11	605	589	280	88	2.3
JULY									
25...	.46	.68	.77	.19	657	640	280	71	2.5

08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MMOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN.									
07...	564	--	--	4.0	--	--	--	--	--
21...	595	--	--	6.0	--	--	--	--	--
23...	597	8.2	6.0	5.0	--	10.8	--	13	110
FEB.									
04...	668	--	--	7.0	--	--	--	--	--
11...	662	--	--	4.0	--	--	--	--	--
19...	665	--	--	6.0	--	--	--	--	--
21...	714	8.4	.5	4.0	--	10.6	--	5.9	150
25...	656	--	--	6.0	--	--	--	--	--
MAR.									
25...	666	8.5	15.5	12.5	--	8.6	--	7.3	140
APR.									
08...	643	7.9	--	15.0	--	--	--	--	--
15...	787	8.6	--	12.0	--	--	--	--	--
23...	945	8.3	20.0	14.0	--	9.3	--	5.1	170
29...	960	--	--	15.0	--	--	--	--	--
MAY									
06...	798	--	--	13.0	--	--	--	--	--
13...	845	--	--	19.0	--	--	--	--	--
20...	829	--	--	13.0	--	--	--	--	--
23...	907	8.4	23.0	16.0	--	8.8	--	7.2	180
28...	863	--	--	19.0	--	--	--	--	--
JUNE									
18...	912	8.4	32.0	21.5	--	7.7	--	7.1	150
JULY									
25...	989	8.3	25.0	23.5	500	7.3	40	14	200

TRACE ELEMENT AND RADIOCHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	
APR. 23...	1035	7	170	0	0	2	10	<100	20	.0	
DATE	TIME	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED GROSS ALPHA AS (UG/L) (80030)	SUS- PENDEO GROSS ALPHA AS (UG/L) (80040)	DIS- SOLVED GROSS BETA AS (UG/L) (03515)	SUS- PENDEO GROSS BETA AS (UG/L) (03516)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L) (80050)	SUS- PENDEO GROSS BETA AS SR90 /Y90 (PC/L) (80060)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DIS- SOLVED NATURAL URANIUM (U) (UG/L) (22703)
APR. 23...	0	0	<6.7	17	6.3	9.0	5.0	7.2	.06	2.4	

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOC (COL- ONIES PER 100 ML) (31679)
JAN.			
23...	1335	410	--
FEB.			
21...	0900	400	--
MAR.			
25...	1015	430	--
APR.			
23...	1035	10	--
MAY			
23...	0830	480	--
JUNE			
18...	1000	7	--
JULY			
25...	0945	4200	1700

RIO GRANDE BASIN

08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, N. MEX.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	518	580	675	665	930	925	915	---	---	---	---	---
2	507	642	700	635	915	895	1,000	1,390	---	---	---	---
3	507	597	710	625	915	925	900	1,630	---	---	---	---
4	517	618	680	590	845	918	895	1,090	---	---	---	---
5	527	595	660	565	775	865	965	1,050	---	---	---	---
6	534	675	665	580	780	830	---	---	---	---	---	---
7	555	680	680	607	810	783	---	---	---	---	---	---
8	543	690	685	640	800	783	---	---	---	---	---	---
9	550	685	680	705	855	880	---	---	---	---	---	---
10	547	675	690	755	820	803	---	---	---	---	---	---
11	543	680	640	790	785	925	---	---	---	---	---	---
12	570	680	595	810	830	845	---	---	---	---	---	---
13	560	690	580	805	845	840	---	---	---	---	---	---
14	570	685	670	825	845	795	---	---	---	---	---	---
15	590	680	670	845	875	858	775	---	---	---	---	---
16	583	705	671	805	965	835	865	---	---	---	---	---
17	595	675	647	800	950	830	765	---	---	---	---	---
18	589	670	648	880	990	845	760	---	---	---	---	---
19	583	670	640	860	1,010	835	780	---	---	---	---	---
20	595	695	607	870	950	903	795	---	---	---	---	---
21	585	698	633	890	970	840	875	---	---	---	---	---
22	580	665	660	915	927	847	880	---	---	---	---	---
23	570	680	665	920	895	880	865	---	---	---	---	---
24	565	670	685	915	865	885	900	---	---	---	---	---
25	567	670	655	895	910	875	970	---	---	---	---	---
26	578	670	625	895	910	876	905	---	---	---	---	---
27	590	655	618	910	905	849	955	---	---	---	---	---
28	568	650	633	955	875	820	1,000	---	---	---	---	---
29	578	---	640	955	900	855	---	---	---	---	---	---
30	580	---	625	915	905	888	---	---	---	---	---	---
31	583	---	660	---	905	---	---	---	---	---	---	---
MONTH	562	665	655	794	886	858						
YEAR	MAX	1630	MIN	507	MEAN	761						

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	4.0	7.0	13.0	16.0	21.0	24.0	25.0	---	---	---	---	---
2	3.0	6.5	14.0	14.0	20.0	22.0	24.0	20.0	---	---	---	---
3	0.0	4.0	13.0	11.0	21.0	25.0	31.0	22.0	---	---	---	---
4	2.0	6.0	12.0	11.5	23.0	26.5	26.0	22.0	---	---	---	---
5	0.0	7.0	9.5	12.0	19.0	19.0	32.0	22.5	---	---	---	---
6	4.0	6.0	12.5	14.0	18.0	25.0	---	---	---	---	---	---
7	4.0	5.0	13.0	15.0	21.0	19.0	---	---	---	---	---	---
8	4.0	5.0	13.5	15.0	21.0	22.0	---	---	---	---	---	---
9	5.5	5.0	12.0	16.0	21.0	27.0	---	---	---	---	---	---
10	7.0	5.5	13.0	13.0	24.0	16.0	---	---	---	---	---	---
11	5.0	7.0	12.5	14.5	24.0	27.0	---	---	---	---	---	---
12	4.0	5.5	13.5	16.0	23.0	28.0	---	---	---	---	---	---
13	5.0	9.5	14.0	14.0	22.0	22.0	---	---	---	---	---	---
14	6.5	9.0	16.0	16.0	16.5	20.0	---	---	---	---	---	---
15	4.5	10.5	16.0	12.0	25.0	27.0	23.0	---	---	---	---	---
16	8.0	7.0	16.0	18.0	23.0	32.0	24.0	---	---	---	---	---
17	7.0	8.0	10.0	19.0	21.0	19.0	25.0	---	---	---	---	---
18	7.0	7.0	14.0	17.5	22.0	21.5	28.5	---	---	---	---	---
19	6.5	6.0	16.0	16.0	20.5	34.0	25.0	---	---	---	---	---
20	6.0	7.0	14.0	14.0	20.0	34.0	26.0	---	---	---	---	---
21	6.0	5.0	14.0	18.0	21.0	34.0	27.0	---	---	---	---	---
22	8.0	8.0	13.0	18.5	21.0	27.0	27.0	---	---	---	---	---
23	5.0	6.0	11.0	20.0	16.0	26.0	26.0	---	---	---	---	---
24	3.0	6.0	15.0	20.0	22.0	31.0	29.0	---	---	---	---	---
25	5.0	6.0	12.5	---	24.0	33.0	23.5	---	---	---	---	---
26	4.0	4.5	16.0	20.0	24.0	34.0	28.0	---	---	---	---	---
27	4.0	10.0	15.0	20.0	24.0	31.0	30.0	---	---	---	---	---
28	5.0	12.0	16.0	17.0	24.0	27.0	33.0	---	---	---	---	---
29	5.0	---	17.0	15.0	23.0	26.0	---	---	---	---	---	---
30	5.5	---	14.5	13.0	24.0	25.0	---	---	---	---	---	---
31	7.0	---	16.0	---	26.0	---	---	---	---	---	---	---
MONTH	5.0	7.0	14.0	15.5	22.0	26.0	---	---	---	---	---	---
YEAR	MAX	34.0	MIN	0.0	MEAN	16.0						

08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, N. MEX.--Continued
SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1700	2870	13200	1500	2080	8420	741	1500	3000
2	1770	1850	8840	1490	2110	8490	679	1010	1850
3	1700	1330	6100	1500	2350	9520	711	810	1550
4	1630	2900	12800	1530	1990	8220	733	2190	4330
5	1540	3450	14300	1400	1980	7480	715	960	1850
6	1400	5020	19000	1160	2160	6770	711	740	1420
7	1360	3250	11900	1090	2790	8210	630	636	1080
8	1530	3690	15200	994	2740	7350	628	703	1190
9	1590	2910	12500	958	1610	4160	580	555	869
10	1620	3860	16900	946	1320	3370	557	479	720
11	1630	2810	12400	902	1810	4410	626	592	1000
12	1600	2600	11200	866	2210	5170	933	828	2150
13	1970	3090	13100	910	1410	3460	787	590	1250
14	1540	3070	12800	902	820	2000	733	715	1420
15	1520	2590	10600	910	1450	3560	713	770	1480
16	1600	2450	10600	890	1270	3050	686	810	1500
17	1570	3610	15300	986	1100	2930	673	685	1240
18	1560	3170	13700	950	1510	3870	728	480	943
19	1510	5250	21400	945	1650	4210	856	510	1180
20	1530	4030	16600	919	1000	2480	953	651	1680
21	1510	2400	9780	906	970	2370	890	679	1630
22	1500	2330	9440	925	920	2300	747	615	1240
23	1530	2310	9540	871	2300	5410	688	685	1270
24	1620	2330	10200	885	3170	7570	752	819	1660
25	1550	2110	8830	865	1700	3970	786	810	1720
26	1540	2150	8940	836	3550	8010	878	699	1660
27	1500	2250	9110	825	1180	2630	890	665	1600
28	1520	1980	8130	738	620	1240	854	930	2140
29	1550	3390	14200	--	--	--	882	835	1990
30	1540	3790	15800	--	--	--	970	711	1860
31	1470	3910	15500	--	--	--	906	1080	2640
TOTAL	48300	--	387910	28599	--	140630	23616	--	51112
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	914	775	1910	182	325	160	130	129	45
2	978	620	1640	187	315	159	139	183	69
3	1240	1870	6260	172	291	135	119	147	47
4	1210	1660	5420	313	420	355	205	111	67
5	1200	1390	4500	443	1250	1500	174	82	39
6	1050	1410	4000	395	600	640	111	75	22
7	854	1350	3110	378	505	515	110	46	14
8	748	1170	2360	309	455	380	121	51	17
9	561	400	606	301	392	319	82	48	11
10	462	679	896	374	462	467	28	49	3.7
11	427	505	582	366	440	435	18	55	2.7
12	379	560	573	258	211	147	14	60	2.3
13	360	500	486	234	346	219	8.1	65	1.4
14	324	520	455	102	172	47	4.5	80	.97
15	359	465	451	108	161	47	13	105	3.7
16	327	312	275	101	212	58	22	38	2.3
17	252	735	500	96	211	55	14	100	3.8
18	210	230	130	97	255	67	2.0	81	.44
19	223	375	226	73	360	71	1.0	93	.25
20	191	545	281	169	335	153	81	80	30
21	155	243	102	184	308	153	86	78	18
22	211	280	160	267	410	296	38	69	7.1
23	148	320	128	279	420	316	14	44	1.7
24	104	93	26	292	285	225	16	49	2.1
25	95	149	38	216	255	149	18	100	4.9
26	101	121	33	133	180	65	14	182	6.9
27	133	161	58	227	275	169	10	192	5.2
28	126	127	43	179	238	115	14	125	4.7
29	171	205	95	185	295	147	14	83	3.1
30	56	126	19	163	280	123	14	61	2.3
31	--	--	--	132	175	62	--	--	--
TOTAL	13569	--	35363	6915	--	7749	1634.6	--	438.56

RIO GRANDE BASIN

08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

JULY			AUGUST			SEPTEMBER			
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6.0	59	.96	0	0	0			
2	42	45	5.1	146	23200	12800			
3	2.0	34	.18	515	25100	44600			
4	1.0	36	.10	1220	65000	133000			
5	1.0	90	.24	195	62700	29400			
6	0	0	0	170	46300	20700			
7	0	0	0	170	4020	1850			
8	0	0	0	151	2380	970			
9	0	0	0	20	1300	70			
10	38	975	420	5.0	610	8.2			
11	94	1950	1930	0	0	0			
12	0	0	0	0	0	0			
13	0	0	0	0	0	0			
14	52	1100	1050	0	0	0			
15	270	2830	2510	0	0	0			
16	338	7200	6570	0	0	0			
17	218	3150	1850	0	0	0			
18	47	950	121	0	0	0			
19	48	700	91	0	0	0			
20	279	900	678	0	0	0			
21	296	5000	4000	0	0	0			
22	243	6150	4040	0	0	0			
23	150	2400	972	0	0	0			
24	106	1380	395	0	0	0			
25	86	1000	232	0	0	0			
26	54	429	63	0	0	0			
27	10	1920	52	0	0	0			
28	1.0	400	1.1	0	0	0			
29	0	0	0	0	0	0			
30	0	0	0	0	0	0			
31	0	0	0	0	0	0			
TOTAL	2382.0	--	24981.68	2592.0	--	243398.2	0	--	0
OCTOBER			NOVEMBER			DECEMBER			
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1				0	0	0			
2				0	0	0			
3				0	0	0			
4				0	0	0			
5				0	0	0			
6				0	0	0			
7				0	0	0			
8				0	0	0			
9				0	0	0			
10				0	0	0			
11				15	3060	188			
12				45	2150	261			
13				0	0	0			
14				0	0	0			
15				0	0	0			
16				0	0	0			
17				0	0	0			
18				0	0	0			
19				0	0	0			
20				0	0	0			
21				0	0	0			
22				0	0	0			
23				0	0	0			
24				0	0	0			
25				0	0	0			
26				0	0	0			
27				0	0	0			
28				0	0	0			
29				0	0	0			
30				0	0	0			
31				--	--	--			
TOTAL	0	--	0	60	--	449	0	--	0
CAL YR 1974	TOTAL WATER DISCHARGE (CFS-DAYS)								
CAL YR 1974	TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)								
WTR YR 1974	TOTAL WATER DISCHARGE (CFS-DAYS)								
WTR YR 1974	TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)								
							127667.60		
							892031.44		
							220175.60		
							1815735.44		

08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, N. MEX.--Continued
INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SED- IMENT CHARGE (MG/L) (80154)	SUS- PENDE SED- IMENT CHARGE (T/DAY) (80155)	SUS- SED. FALL DIAM. % FINER THAN ,002 MM (70337)	SUS- SED. FALL DIAM. % FINER THAN ,004 MM (70338)	SUS- SED. FALL DIAM. % FINER THAN ,016 MM (70340)
JAN.								
07...	1145	4.0	1380	2440	9090	8	10	13
21...	1200	6.0	1470	1540	6110	10	12	16
FEB.								
10...	1755	5.5	962	1410	3660	6	9	11
25...	1200	6.0	854	760	1750	15	17	24
MAR.								
25...	0930	12.0	782	744	1570	--	--	--
25...	1015	12.5	790	1340	2860	10	13	17
APR.								
15...	0930	12.0	364	478	470	22	30	45
29...	1000	15.0	172	189	88	--	--	--
MAY								
13...	0845	19.0	221	475	283	16	19	26
28...	0900	19.0	135	35	13	--	--	--
JULY								
22...	1000	22.0	234	5840	3690	61	78	98
25...	0945	23.5	134	1030	373	69	82	96
AUG.								
04...	1729	22.0	650	50500	88600	64	73	93

DATE	SUS- SED. FALL DIAM. % FINER THAN ,062 MM (70342)	SUS- SED. FALL DIAM. % FINER THAN ,125 MM (70343)	SUS- SED. FALL DIAM. % FINER THAN ,250 MM (70344)	SUS- SED. FALL DIAM. % FINER THAN ,500 MM (70345)	SUS- SED. SIEVE DIAM. % FINER THAN ,062 MM (70331)	SUS- SED. SIEVE DIAM. % FINER THAN ,125 MM (70332)	SUS- SED. SIEVE DIAM. % FINER THAN ,250 MM (70333)	SUS- SED. SIEVE DIAM. % FINER THAN ,500 MM (70334)
JAN.								
07...	38	86	100	--	--	--	--	--
21...	40	85	100	--	--	--	--	--
FEB.								
10...	33	82	100	--	--	--	--	--
25...	51	93	100	--	--	--	--	--
MAR.								
25...	72	97	100	--	--	--	--	--
25...	35	58	87	100	--	--	--	--
APR.								
15...	77	96	100	--	--	--	--	--
29...	--	--	--	--	81	96	100	--
MAY								
13...	38	55	97	100	--	--	--	--
28...	--	--	--	--	82	96	97	100
JULY								
22...	100	--	--	--	--	--	--	--
25...	--	--	--	--	99	99	100	--
AUG.								
04...	99	100	--	--	--	--	--	--

PARTICLE SIZE OF SURFACE BED MATERIAL, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SED- IMENT CHARGE (MG/L) (80154)	SUS- PENDE SED- IMENT CHARGE (T/DAY) (80155)	BED MAT. FALL DIAM. % FINER THAN ,062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN ,125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN ,250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN ,500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN 2.00 MM (80163)
JAN.										
07...	1145	1380	2440	9090	16	72	99	100	--	--
21...	1200	1470	1540	6110	1	13	76	100	--	--
FEB.										
25...	1200	854	760	1750	2	20	83	100	--	--
MAR.										
25...	0930	782	744	1570	1	1	9	89	99	100
APR.										
15...	0930	364	478	470	2	30	97	100	--	--
29...	1000	172	189	88	8	48	94	100	--	--
MAY										
13...	0845	221	475	283	0	2	58	99	100	--
28...	0900	135	35	13	1	5	73	99	100	--
JULY										
22...	1000	234	5840	3690	0	3	60	98	100	--

RIO GRANDE BASIN

08358300 RIO GRANDE CONVEYANCE CHANNEL AT SAN MARCIAL, N. MEX.--Continued

TOTAL SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDI- MENT (MG/L) (80154)	SUS- PENDE SEDI- MENT (T/DAY) (80155)	TOTAL SEDI- MENT DIS- CHARGE (T/DAY) (80156)	STREAM WIDTH (FT) (00004)	MEAN DEPTH (FT) (00064)	STREAM VELOC- ITY (FPS) (00055)
JAN.									
07...	1145	4.0	1380	2440	9090	11700	65	3.6	5.9
21...	1200	6.0	1470	1540	6110	8930	68	3.9	5.9
FEB.									
25...	1200	6.0	854	760	1750	2700	67	2.7	4.7
MAR.									
25...	0930	12.0	782	744	1570	2510	67	2.6	4.5
APR.									
15...	0930	12.0	364	478	470	823	69	1.6	3.3
29...	1000	15.0	172	189	88	128	66	1.6	1.6
MAY									
13...	0845	19.0	221	475	283	540	70	1.5	2.2
28...	0900	19.0	135	35	13	36	67	1.2	1.7
JULY									
22...	1000	22.0	234	5840	3690	3730	69	1.9	1.8

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, N. MEX.
(National stream-quality accounting network, irrigation,
surveillance, and radiochemical network station)

LOCATION.--Lat 33°40'50", long 106°59'30", Socorro County, in Pedro Armendaris Grant No. 33 at gaging station on pier of the Atchison, Topeka, and Santa Fe Railway Co. bridge, 1.1 mi (1.8 km) downstream from former site of San Marcial, and 18.5 mi (29.8 km) southwest of San Antonio, and at mile 1,425.2 (2,293.1 km).

DRAINAGE AREA.--27,700 mi² (71,740 km²), approximately, including 2,940 mi² (7,610 km²) in closed basin in San Luis Valley, Colo.

PERIOD OF RECORD.--Chemical analyses: May 1905 to April 1907, July 1946 to current year.

Specific conductance: May 1905 to April 1907, July 1946 to current year.

Water temperatures: January 1949 to current year.

Sediment records: July 1946 to current year.

EXTREMES:

Current year:

Specific conductance: Maximum daily, 1,710 micromhos Aug. 6; minimum daily, 700 micromhos Aug. 23.

Water temperatures: Maximum, 27.0°C Aug. 8, 10; minimum, freezing point Dec. 26, 28.

Sediment concentrations: Maximum daily, 74,900 mg/l Aug. 6; minimum daily, no flow on many days.

Sediment discharge: Maximum daily, 122,000 tons (111,000 tonnes) Aug. 5; minimum daily, 0 tons (0 tonnes) on many days.

Period of record:

Specific conductance: Maximum daily, 2,730 micromhos Apr. 8, 1953; minimum daily, 293 micromhos June 20, 1967.

Water temperatures: Maximum, 36.0°C Aug. 11, 1951; minimum, freezing point on many days.

Sediment concentrations: Maximum daily, 126,000 mg/l Aug. 8, 1959; minimum daily, no flow on many days each year.

Sediment discharge: Maximum daily, 966,000 tons (876,000 tonnes) Oct. 22, 1957; minimum daily, 0 tons (0 tonnes) many days each year.

REMARKS.--Records of chemical analyses and sediment discharge for years prior to 1946 have been published in Water Bulletins of International Boundary and Water Commission. No flow Jan. 1 to Aug. 4, Sept. 13. Additional sediment total load determinations were made bi-weekly when needed. Sediment table omitted for period of no flow Jan. 1 to June 30.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	DIS- SOLVED SILICA (SIU2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NESIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (MCO3) (MG/L) (00440)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
AUG.												
06...	1000	360	--	--	--	--	--	--	--	--	--	--
26...	0900	160	--	--	--	--	--	--	--	--	--	--
27...A	1400	282	15	50	--	56	11	97	6.1	168	170	62
SEP.												
03...	0945	227	--	--	--	--	--	--	--	--	--	--
18...A	1230	95	20	50	0	100	20	120	7.2	262	270	93
23...	1000	485	--	--	--	--	--	--	--	--	--	--
OCT.												
16...A	1330	570	15	0	--	110	20	130	6.5	176	400	62
NOV.												
11...	0900	541	--	--	--	--	--	--	--	--	--	--
13...A	1430	530	28	10	--	72	13	80	3.9	221	150	50
DEC.												
02...	0930	483	--	--	--	--	--	--	--	--	--	--
11...A	1330	562	27	20	0	70	13	72	5.2	216	140	48

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRATE (N) (MG/L) (00613)	TOTAL NITRATE (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)
AUG.												
06...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
27...	.7	.98	.00	1.3	.98	.15	1.8	3.2	7.7	.04	502	505
SEP.												
03...	--	--	--	--	--	--	--	--	--	--	--	--
18...	.7	.01	.00	.39	.01	.14	34	34	2.5	.04	798	760
23...	--	--	--	--	--	--	--	--	--	--	--	--
OCT.												
16...	.7	.85	.04	1.1	.89	.07	5.9	7.1	5.4	.05	878	835
NOV.												
11...	--	--	--	--	--	--	--	--	--	--	--	--
13...	.6	.63	.00	.69	.63	.06	.92	1.7	1.4	.38	545	511
DEC.												
02...	--	--	--	--	--	--	--	--	--	--	--	--
11...	.6	.42	.01	.45	.43	.14	1.8	2.4	1.6	.40	492	486

A OTHER VALUE: CARBONATE (CO3)(00445)(MG/L) 0

RIO GRANDE BASIN

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	HARD- NESS (CA, MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED MURON (B) (UG/L) (01020)
AUG, 06...	--	--	--	941	--	--	20.5	--	--	--	--	--
26...	--	--	--	245	--	--	19.0	--	--	--	--	--
27...	190	47	3.1	850	7.8	26.0	21.5	8100	6.4	170	71	160
SEP, 03...	--	--	--	843	--	--	19.0	--	--	--	--	--
18...	330	120	2.9	1250	8.1	15.0	16.0	13000	7.9	660	64	180
23...	--	--	--	1550	--	--	14.0	--	--	--	--	--
OCT, 16...	360	210	3.0	1240	7.8	22.0	14.0	80000	7.8	280	69	200
NOV, 11...	--	--	--	819	--	9.0	9.5	--	--	--	--	--
13...	230	52	2.3	828	8.2	19.0	10.0	700	9.7	41	20	180
DEC, 02...	--	--	--	788	--	5.5	4.5	--	--	--	--	--
11...	230	51	2.1	769	8.0	4.0	3.0	400	11.2	36	13	170

TRACE ELEMENT AND RADIOCHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L) (01002)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	DIS- SOLVED COBALT (CU) (UG/L) (01035)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)
SEP, 18...	1230	260	5	180	0	0	0	2	110000
DEC, 11...	1330	33	6	170	1	<10	3	1	34000

DATE	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE- NIUM (SE) (UG/L) (01147)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
SEP, 18...	50	800	1	0	1.0	.0	1	6	10
DEC, 11...	20	100	0	0	<.1	<.1	1	0	20

DATE	DIS- SOLVED GROSS ALPHA AS (UG/L) (80030)	SUS- PENDE GROSS ALPHA AS (UG/L) (80040)	DIS- SOLVED GROSS BETA AS (PC/L) (03515)	SUS- PENDE GROSS BETA AS (PC/L) (03516)	DIS- SOLVED GROSS BETA AS (PC/L) (80050)	SUS- PENDE GROSS BETA AS (PC/L) (80060)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DIS- SOLVED NATURAL URANIUM (U) (UG/L) (22703)
SEP, 18...	--	--	--	--	--	--	--	--
DEC, 11...	12	54	8.6	32	6.9	27	.07	3.0

RIO GRANDE BASIN

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08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, N. MEX.--Continued
BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL PHYTO- PLANK- TON (CELLS PER ML) (60050)	CHLORO- PHYLL A (UG/L) (32230)	CHLORO- PHYLL B (UG/L) (32231)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCUCCI (COL- ONIES PER 100 ML) (31679)
AUG. 27...	1400	--	--	--	1800	5300
SEP. 18...	1230	--	--	--	27000	13000
OCT. 16...	1330	4300	--	--	12000	7800
NOV. 13...A	1430	210	.1	.1	14000	7500
DEC. 11...	1330	3400	.1	.1	3600	2200

A PERIPHYTON, BIOMASS, DRY WEIGHT, TOTAL (G/SQ M) 2.3
PERIPHYTON, BIOMASS, ASH WEIGHT (G/SQ M)(00572) 1.5

PHYTOPLANKTON

DATE	PHYLUM .Class ..Order ...Family....Genus.....Species	COMMON NAME	PERCENT OF TOTAL
OCT 16...	CHRYSTOPHYTA .Bacillariophyceae....Navicula (Dominant)	Diatoms	100
NOV 13...	CHRYSTOPHYTA .Bacillariophyceae....Nitzschia (Codominant) ....Neidium (Codominant) ....Navicula (Codominant)	Diatoms	33 33 33
DEC 11...	CHLOROPHYTA .Chlorophyceae....Closteriopsis	Green algae	3
	CHRYSTOPHYTA .Bacillariophyceae....Nitzschia (Dominant) ....Surirella....Gomphonema....Navicula....Caloneis	Diatoms	63 10 10 10 3

RIO GRANDE BASIN

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, N. MEX.--Continued

SPECIFIC CONDUCTANCE (MICROMMHNS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE=DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	---	815	900	1290	780
2	---	---	---	---	---	---	---	---	735	1010	1110	783
3	---	---	---	---	---	---	---	---	835	975	1040	790
4	---	---	---	---	---	---	---	---	845	975	980	785
5	---	---	---	---	---	---	---	---	847	980	950	770
6	---	---	---	---	---	---	---	1710	845	980	900	763
7	---	---	---	---	---	---	---	1370	835	940	875	710
8	---	---	---	---	---	---	---	1160	846	785	855	715
9	---	---	---	---	---	---	---	970	846	1050	843	770
10	---	---	---	---	---	---	---	975	855	955	817	755
11	---	---	---	---	---	---	---	1030	920	935	803	737
12	---	---	---	---	---	---	---	985	910	865	793	737
13	---	---	---	---	---	---	---	960	---	1540	830	780
14	---	---	---	---	---	---	---	995	---	1260	820	757
15	---	---	---	---	---	---	---	950	970	1300	810	755
16	---	---	---	---	---	---	---	930	945	1200	807	755
17	---	---	---	---	---	---	---	915	1010	1030	795	785
18	---	---	---	---	---	---	---	970	1190	970	790	770
19	---	---	---	---	---	---	---	990	877	965	795	765
20	---	---	---	---	---	---	---	1030	882	1010	785	757
21	---	---	---	---	---	---	---	1050	1260	985	780	775
22	---	---	---	---	---	---	---	1020	897	950	775	782
23	---	---	---	---	---	---	---	700	941	910	790	782
24	---	---	---	---	---	---	---	895	1170	915	776	845
25	---	---	---	---	---	---	---	950	1010	1330	792	770
26	---	---	---	---	---	---	---	935	1610	1180	800	738
27	---	---	---	---	---	---	---	823	918	1040	803	747
28	---	---	---	---	---	---	---	850	850	965	807	743
29	---	---	---	---	---	---	---	910	862	1100	797	768
30	---	---	---	---	---	---	---	890	873	1090	783	787
31	---	---	---	---	---	---	---	875	---	970	---	790
MONTH	---	---	---	---	---	---	---	994	943	1030	853	766
YEAR	MAX	1710	MIN	700	MEAN	915						

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE=DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	---	22.0	19.0	10.5	6.0
2	---	---	---	---	---	---	---	---	19.0	19.5	11.0	6.0
3	---	---	---	---	---	---	---	---	19.0	14.0	10.0	9.0
4	---	---	---	---	---	---	---	---	18.0	16.5	12.0	10.0
5	---	---	---	---	---	---	---	---	20.0	18.0	10.0	10.0
6	---	---	---	---	---	---	---	20.5	21.0	17.0	10.0	10.0
7	---	---	---	---	---	---	---	23.0	22.0	17.0	13.0	10.0
8	---	---	---	---	---	---	---	27.0	16.0	16.0	14.0	4.0
9	---	---	---	---	---	---	---	26.0	25.0	16.0	13.0	3.0
10	---	---	---	---	---	---	---	27.0	24.0	17.0	10.0	3.0
11	---	---	---	---	---	---	---	25.0	26.0	17.0	12.0	1.0
12	---	---	---	---	---	---	---	23.0	13.0	13.0	11.0	3.0
13	---	---	---	---	---	---	---	25.0	---	15.0	10.0	3.0
14	---	---	---	---	---	---	---	25.0	---	15.0	11.0	4.0
15	---	---	---	---	---	---	---	25.0	18.0	14.0	10.0	4.0
16	---	---	---	---	---	---	---	25.0	19.0	14.0	9.0	5.0
17	---	---	---	---	---	---	---	20.5	18.0	15.0	12.0	5.0
18	---	---	---	---	---	---	---	22.0	16.0	16.0	13.0	5.5
19	---	---	---	---	---	---	---	20.0	20.0	15.0	10.0	5.0
20	---	---	---	---	---	---	---	23.5	20.0	18.0	10.5	3.0
21	---	---	---	---	---	---	---	24.0	15.0	15.5	10.0	3.0
22	---	---	---	---	---	---	---	20.0	14.0	15.0	10.0	6.0
23	---	---	---	---	---	---	---	25.0	16.5	16.0	10.0	3.0
24	---	---	---	---	---	---	---	23.0	19.0	16.0	10.0	2.0
25	---	---	---	---	---	---	---	21.5	20.0	17.0	9.0	10.0
26	---	---	---	---	---	---	---	19.0	17.0	15.0	8.0	0.0
27	---	---	---	---	---	---	---	22.0	20.0	15.0	9.0	1.0
28	---	---	---	---	---	---	---	23.0	19.0	14.0	9.0	0.0
29	---	---	---	---	---	---	---	23.0	18.0	14.0	5.0	4.0
30	---	---	---	---	---	---	---	20.0	18.5	12.0	4.0	4.0
31	---	---	---	---	---	---	---	21.0	---	12.0	---	3.0
MONTH	---	---	---	---	---	---	---	23.0	19.0	15.5	10.0	4.5
YEAR	MAX	27.0	MIN	0.0	MEAN	14.0						

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1				0	0	0	250	5100	3440
2				0	0	0	254	3870	2650
3				0	0	0	223	2580	1550
4				0	0	0	145	1120	438
5				352	54700	122000	100	740	200
6				280	74900	56900	71	725	139
7				88	53500	12700	54	410	60
8				48	57300	7430	41	280	31
9				65	37000	6490	30	235	19
10				118	23500	7490	24	262	17
11				65	13000	2280	5.0	235	3.2
12				62	1740	291	.19	135	.07
13				67	940	170	0	0	0
14				62	840	141	.05	170	.05
15				36	450	44	1.4	365	1.4
16				17	250	11	28	935	71
17				9.6	177	4.6	80	710	153
18				6.6	175	3.1	112	18000	5440
19				20	265	14	122	6900	2270
20				32	245	21	128	3300	1140
21				22	230	14	361	34600	50300
22				8.8	181	4.3	360	9900	9620
23				107	7440	6310	445	30000	36000
24				188	16400	9150	242	13400	8760
25				142	3000	1150	195	6300	3320
26				222	8380	7170	178	19600	9420
27				294	17100	13600	216	1520	886
28				286	12500	9650	195	3900	2050
29				209	5500	3100	164	4160	1840
30				209	2400	1350	139	2500	938
31				206	4240	2360	--	--	--
TOTAL	0	--	0	3222.0	--	269848.0	4163.64	--	140756.72

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	100	915	247	777	42700	93600	485	3150	4120
2	90	540	131	598	19300	30700	485	2320	3040
3	73	415	82	514	8900	12400	494	3900	5200
4	73	383	75	460	6300	7820	494	3050	4070
5	85	485	111	440	5200	6180	480	2810	3640
6	112	925	280	465	10600	13300	475	2500	3210
7	110	750	223	506	4000	5460	475	2290	2940
8	120	545	177	514	5200	7220	518	1900	2660
9	208	15000	8420	542	12000	17600	514	2150	2980
10	274	7300	5400	494	3520	4690	542	2210	3230
11	334	3900	3520	530	3160	4520	582	2760	4340
12	390	13000	13700	534	2510	3620	554	3200	4790
13	525	47500	67300	510	4200	5780	550	3200	4750
14	570	45000	69300	522	2370	3340	542	1910	2800
15	714	30100	58000	518	2880	4030	578	1570	2450
16	590	15200	24200	542	2700	3950	582	2770	4350
17	400	9800	10600	534	2400	3460	578	2600	4060
18	346	11900	11100	570	2100	3230	554	1680	2510
19	342	4400	4060	546	2110	3110	554	3080	4610
20	278	2350	1760	546	2890	4260	566	3600	5500
21	282	2190	1670	542	6390	9350	554	2250	3370
22	266	1780	1280	514	7850	10900	550	1880	2790
23	355	24100	23100	510	3620	4980	542	2400	3510
24	485	25000	32700	514	4720	6550	562	2560	3880
25	560	32600	49300	518	3260	4560	610	8000	13200
26	420	27500	31200	490	3200	4230	598	4300	6940
27	360	17300	16800	514	2460	3410	598	3400	5490
28	520	13200	18500	506	2080	2840	570	1900	2920
29	475	13500	17300	502	3300	4470	580	2700	4230
30	495	18500	24700	494	3500	4670	570	1660	2550
31	515	12900	17900				586	1500	2370
TOTAL	10467	--	513136	15758	--	294230	16922	--	126500

CAL YR 1974 TOTAL WATER DISCHARGE (CFS-DAYS)
 CAL YR 1974 TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)

50532.64
 1344470.72

WTR YR 1974 TOTAL WATER DISCHARGE (CFS-DAYS)
 WTR YR 1974 TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)

7385.64
 410604.72

RIO GRANDE BASIN

08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, N. MEX.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PEN- DED SEDI- MENT (MG/L) (80154)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN .002 MM (70337)	SUS. SED. FALL DIAM. % FINER THAN .004 MM (70338)	SUS. SED. FALL DIAM. % FINER THAN .016 MM (70340)
AUG.								
06...	0900	20.5	360	102000	99100	67	80	97
26...	1000	19.0	160	2380	1030	40	50	61
27...	1330	21.5	282	11300	8600	--	--	--
SEP.								
03...	0945	19.0	227	2370	1450	65	77	89
18...	1230	16.0	95	26400	6770	62	78	98
23...	1000	14.0	485	58700	76900	68	79	97
OCT.								
07...	0900	14.0	122	917	302	58	74	90
15...	0910	14.0	701	29000	54900	62	80	94
16...	1330	14.0	570	16600	25500	--	--	--
29...	0900	10.0	466	5770	7260	63	77	93
NOV.								
11...	0900	9.5	541	3250	4750	39	46	60
13...	1430	10.0	530	5690	8140	--	--	--
DEC.								
02...	0930	4.5	483	1500	1960	32	36	49
11...	1330	3.0	562	3450	5240	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN .250 MM (70344)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM (70332)	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM (70333)	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM (70334)	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM (70335)
AUG.								
06...	98	99	100	--	--	--	--	--
26...	86	98	100	--	--	--	--	--
27...	--	--	--	85	--	--	--	--
SEP.								
03...	93	100	--	--	--	--	--	--
18...	99	99	100	--	--	--	--	--
23...	99	100	--	--	--	--	--	--
OCT.								
07...	--	--	--	93	97	99	99	100
15...	100	--	--	--	--	--	--	--
16...	--	--	--	94	--	--	--	--
29...	--	--	--	99	100	--	--	--
NOV.								
11...	--	--	--	97	100	--	--	--
13...	--	--	--	75	--	--	--	--
DEC.								
02...	90	100	--	--	--	--	--	--
11...	--	--	--	74	--	--	--	--

PARTICLE SIZE OF SURFACE BED MATERIAL, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PEN- DED SEDI- MENT (MG/L) (80154)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY) (80155)	BED MAT. FALL DIAM. % FINER THAN .062 MM (80158)	BED MAT. FALL DIAM. % FINER THAN .125 MM (80159)	BED MAT. FALL DIAM. % FINER THAN .250 MM (80160)	BED MAT. FALL DIAM. % FINER THAN .500 MM (80161)	BED MAT. FALL DIAM. % FINER THAN 1.00 MM (80162)	BED MAT. FALL DIAM. % FINER THAN 2.00 MM (80163)
AUG.										
06...	0900	360	102000	99100	12	41	97	100	--	--
SEP.										
03...	0945	227	2370	1450	4	14	92	100	--	--
23...	1000	485	58700	76900	1	23	96	100	--	--
OCT.										
15...	0910	701	29000	54900	3	17	96	100	--	--
29...	0900	466	5770	7260	2	14	96	100	--	--
NOV.										
11...	0900	541	3250	4750	7	13	77	96	99	100
DEC.										
02...	0930	483	1500	1960	2	12	71	98	100	--

RIO GRANDE BASIN

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08358400 RIO GRANDE FLOODWAY AT SAN MARCIAL, N. MEX.--Continued

TOTAL SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDI- MENT (MG/L) (80154)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY) (80155)	TOTAL SEDI- MENT DIS- CHARGE (T/DAY) (80156)	STREAM WIDTH (FT) (00004)	MEAN DEPTH (FT) (00064)	STREAM VELOC- ITY (FPS) (00055)
AUG. 06...	0900	20.5	360	102000	99100	101000	120	1.1	2.7
SEP. 03...	0945	19.0	227	2370	1450	1840	68	1.7	2.9
23...	1000	14.0	485	58700	76900	78000	106	1.4	3.4
OCT. 15...	0910	14.0	701	29000	54900	55600	124	1.6	3.6
29...	0900	10.0	466	5770	7260	7550	102	1.5	3.0
NOV. 11...	0900	9.5	541	3250	4750	5300	95	1.8	3.0
DEC. 02...	0930	4.5	483	1500	1960	2230	92	2.3	2.3

RIO GRANDE BASIN

08363700 TORTUGAS ARROYO NEAR LAS CRUCES, N. MEX.

LOCATION.--Lat 32°17'15", long 106°43'43", Dona Ana County, in Dona Ana Bend Colony Grant, at gaging station, 30 ft (9 m) downstream from flood detention dam, 1.2 mi (1.9 km) northeast of New Mexico State University, and 3.3 mi (5.3 km) southeast of Las Cruces.

DRAINAGE AREA.--20.7 mi² (53.6 km²).

PERIOD OF RECORD.--Sediment records: July 1963 to June 1974 (discontinued).

REMARKS.--No flow Jan. 1 to June 30.

RIO GRANDE BASIN

08377900 RIO MORA NEAR TERRERO, N. MEX.
(Hydrologic bench-mark station)

LOCATION.--Lat 35°46'38", long 105°39'27", in E₁NE₁ sec.22, T.18 N., R.12 E., San Miguel County, in Santa Fe National Forest, at gaging station 450 ft (140 m) upstream from bridge on State Highway 63, 600 ft (180 m) upstream from mouth, and 2.6 mi (4.2 km) north of Terrero.

DRAINAGE AREA.--53.2 mi² (137.8 km²).

PERIOD OF RECORD.--Chemical analyses: November 1962 to current year.
Sediment records: August 1967 to current year.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (000061)	DIS- SOLVED SILICA (SI02) (MG/L) (000955)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (000915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (000925)	DIS- SOLVED SODIUM (NA) (MG/L) (000930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (000935)	BICAR- BONATE (HCU3) (MG/L) (000440)	CAR- BONATE (CU3) (MG/L) (000445)
FEB. 07...	1815	5.0	6.8	21	2.3	1.9	.5	63	0
MAY 29...	1406	27	5.4	12	1.1	.9	.5	37	0
JUNE 25...	1156	7.8	7.6	16	1.6	1.5	.6	55	0
SEP. 25...	1445	9.5	6.8	16	2.9	1.8	.5	56	0
NOV. 21...	1642	15	5.4	16	1.3	2.1	.6	50	0
DEC. 16...	1400	7.9	6.3	16	1.6	2.0	.4	52	0

DATE	DIS- SOLVED SULFATE (SO4) (MG/L) (000945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (000940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (000950)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (000630)	TOTAL PHOS- PHORUS (P) (MG/L) (000665)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (000900)	NON- CAR- BONATE HARD- NESS (MG/L) (000902)
FEB. 07...	12	1.1	.3	.07	.01	76	77	62	10
MAY 29...	5.5	.3	.1	.01	.01	66	44	35	5
JUNE 25...	6.4	.9	.2	.02	.00	60	62	47	1
SEP. 25...	6.2	.7	.2	.04	.03	67	65	52	6
NOV. 21...	7.3	.9	.2	.03	.00	63	58	45	4
DEC. 16...	9.0	1.6	.2	.08	.00	72	63	47	4

DATE	SODIUM AD- SORP- TION RATIO (000931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (000995)	PH (UNITS) (000400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED OXYGEN (MG/L) (000300)	TOTAL ORGANIC CARBON (C) (MG/L) (000680)	CYANIDE (CN) (MG/L) (000720)
FEB. 07...	.1	136	7.9	-10.0	.0	11.2	--	--
MAY 29...	.1	75	8.2	22.0	13.0	7.5	1.9	.00
JUNE 25...	.1	98	8.2	24.0	15.0	7.4	4.3	.00
SEP. 25...	.1	110	7.6	19.5	10.5	8.2	4.4	.00
NOV. 21...	.1	99	8.0	6.0	.0	10.8	--	--
DEC. 16...	.1	104	7.6	1.0	.0	10.8	--	--

08377900 RIO MORA NEAR TERRERO, N. MEX.--Continued

TRACE ELEMENT AND RADIOCHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL SELENIUM (SE) (UG/L) (01147)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L) (80030)
MAY 29...	1406	0	60	<100	1.6	0	--
JUNE 25...	1156	0	2300	<100	.0	2	--
SEP. 25...	1445	0	110	<100	.4	0	1.5
DATE	TIME	SUS- PENDE GROSS ALPHA AS U-NAT. (UG/L) (80040)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L) (03515)	SUS- PENDE GROSS BETA AS CS-137 (PC/L) (03516)	DIS- SOLVED GROSS BETA AS AS SR90 /Y90 (PC/L) (80050)	SUS- PENDE GROSS BETA AS AS SR90 /Y90 (PC/L) (80060)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L) (09511)
MAY 29...	--	--	--	--	--	--	--
JUNE 25...	--	--	--	--	--	--	--
SEP. 25...	<.4	1.5	<.4	1.2	<.4	.03	.20

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	IMME- DIATE COLI- FORM (COL. PER 100 ML) (31501)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOC (COL- ONIES PER 100 ML) (31679)
FEB. 07...	1815	0	0	0
MAY 29...	1406	15	13	2
JUNE 25...	1156	65	2	24
SEP. 25...	1445	3	0	8
NOV. 21...	1642	1	1	5
DEC. 16...	1400	0	0	0

PESTICIDE ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL ALDRIN (UG/L) (39330)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG) (39333)	TOTAL CHLOR- DANE (UG/L) (39350)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG) (39351)	TOTAL DDD (UG/L) (39360)	DDD IN BOTTOM MA- TERIAL (UG/KG) (39363)	TOTAL DDE (UG/L) (39365)	DDE IN BOTTOM MA- TERIAL (UG/KG) (39368)	TOTAL DDT (UG/L) (39370)	DDT IN BOTTOM MA- TERIAL (UG/KG) (39373)
SEP. 25...	1445	.00	.0	.0	0	.00	.0	.00	.2	.00	.5
DATE	TIME	TOTAL DI- AZINON (UG/L) (39570)	TOTAL DI- ELDRIN (UG/L) (39380)	TOTAL DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG) (39383)	TOTAL DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG) (39390)	TOTAL HEPTA- CHLOR (UG/L) (39410)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG) (39413)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L) (39420)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG) (39423)	TOTAL LINDANE (UG/L) (39340)	LINDANE IN BOT- TOM MA- TERIAL (UG/KG) (39343)
SEP. 25...	.00	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0
DATE	TIME	TOTAL MALA- THION (UG/L) (39530)	TOTAL METHYL PARA- THION (UG/L) (39600)	TOTAL PARA- THION (UG/L) (39540)	TOTAL PCB (UG/L) (39516)	TOTAL PCB IN BOTTOM MA- TERIAL (UG/KG) (39519)	TOTAL TOX- APHENE (UG/L) (39400)	TOTAL TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG) (39403)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVER (UG/L) (39760)
SEP. 25...	.00	.00	.00	.00	.0	0	0	0	.00	.00	.00

RIO GRANDE BASIN

08377900 RIO MORA NEAR TERRERO, N. MEX.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDIM- ENT CHARGE (MG/L) (80154)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY) (80155)
JAN,					
06...	1340	.0	5.2	1	.01
18...	1125	.5	5.8	5	.08
FEB,					
07...	1815	.0	5.0	3	.04
27...	1210	5.0	5.0	3	.04
MAR,					
20...	1515	3.0	9.3	1	.02
APR,					
09...	1330	5.5	11	5	.15
MAY					
01...	1000	1.5	26	115	8.1
29...	1406	13.0	27	356	26
JUNE					
11...	1250	14.0	13	1350	47
25...	1156	15.0	7.8	2280	48
JULY					
01...	1020	14.5	7.8	16	.34
25...	1520	19.5	7.3	8	.16
SEP,					
12...	1155	11.0	6.0	1	.02
25...	1445	10.5	9.5	1	.03
NOV,					
21...	1642	.0	15	1	.04
27...	1030	.0	10	0	.00
DEC,					
16...	1400	.0	7.9	3	.06

08379500 PECOS RIVER NEAR ANTON CHICO, N. MEX.
(Surveillance network station)

LOCATION.--Lat 35°10'44", long 105°06'30", Guadalupe County in Anton Chico Grant, at gaging station 2.1 mi (3.4 km) upstream from Canon Blanco, 2.3 mi (3.7 km) southeast of Anton Chico, 9.7 mi (15.6 km) downstream from Tecolote Creek, and at mile 816.8 (1,314.2 km).

DRAINAGE AREA.--1,050 mi² (2,720 km²), approximately (contributing area).

PERIOD OF RECORD.--Chemical analyses: August 1967 to current year.
Sediment records: July 1974 to current year.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SiO ₂) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO ₃) (MG/L) (00440)
JAN. 29...	1340	13	7.9	--	--	53	6.6	6.4	1.0	179
FEB. 21...	1115	19	6.9	--	--	53	6.4	6.4	.8	171
MAR. 27...	1050	35	7.5	--	--	49	5.7	5.1	.9	153
APR. 11...	0955	14	7.8	10	--	53	6.2	5.0	1.2	169
JUNE 20...	1300	1.2	11	--	--	49	11	7.9	1.5	186
JULY 30...	1406	1.0	11	10	--	40	10	8.6	2.2	--
AUG. 13...	1100	11	11	50	--	56	7.4	6.7	1.4	184
SEP. 11...	1215	.77	9.6	10	0	49	9.9	8.3	1.8	189
OCT. 18...	1020	11	--	--	--	--	--	--	--	--
NOV. 07...	1400	16	9.0	10	--	49	6.6	6.3	1.2	170
DEC. 06...	1131	12	8.1	10	--	57	6.9	6.2	.8	190

DATE	CAR- BONATE (CO ₃) (MG/ (00044)	DIS- SOLVED SULFATE (SO ₄) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)
JAN. 29...	0	28	2.4	.3	--	--	--	.08	--
FEB. 21...	0	31	3.6	.1	--	--	--	.11	--
MAR. 27...	0	27	2.8	.4	--	--	--	.03	--
APR. 11...	0	24	2.4	.3	--	--	--	.03	--
JUNE 20...	0	34	3.2	.3	--	--	--	.47	--
JULY 30...	0	32	3.2	.3	.12	.00	.12	.12	.05
AUG. 13...	1	23	3.6	.3	.02	.00	.05	.02	.05
SEP. 11...	0	26	3.3	.3	.01	.00	.02	.01	.04
OCT. 18...	--	--	--	--	--	--	--	--	--
NOV. 07...	1	20	2.8	.2	.08	.00	.09	.08	.03
DEC. 06...	0	25	4.4	.2	.05	.00	.05	.05	.02

RIO GRANDE BASIN

08379500 PECOS RIVER NEAR ANTON CHICO, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (000605)	TOTAL NITRO- GEN (N) (MG/L) (000600)	TOTAL PHOS- PHORUS (P) (MG/L) (000605)	DIS- SOLVED ORTHO, PHOS- PHORUS (P) (MG/L) (000671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CUNSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (000900)	NON- CAL- BONATE HARD- NESS (MG/L) (000902)	SODIUM AD- SORP- TION RATIO (000931)
JAN, 29...	--	--	--	--	--	194	160	13	.2
FEB, 21...	--	--	--	--	--	193	160	18	.2
MAR, 27...	--	--	--	--	--	174	150	20	.2
APR, 11...	--	--	--	.01	182	183	160	19	.2
JUNE 20...	--	--	--	--	--	212	170	15	.3
JULY 30...	.36	.53	.03	.00	181	108	140	140	.3
AUG, 13...	.12	.22	.04	.00	200	201	170	18	.2
SEP, 11...	.17	.23	.00	.01	161	201	160	5	.3
OCT, 18...	--	--	--	--	--	--	--	--	--
NOV, 07...	.24	.36	.02	.00	187	180	150	8	.2
DEC, 06...	.11	.18	.01	.01	198	203	170	14	.2

DATE	BPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (000095)	PH (UNITS) (000400)	AIR TEMPER- ATURE (DEG C) (000020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (000070)	DIS- SOLVED OXYGEN (MG/L) (00300)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	TOTAL ORGANIC CARBON (C) (000680)	DIS- SOLVED BORON (B) (01020)
JAN, 29...	335	8.2	--	3.5	--	--	--	--	--
FEB, 21...	334	8.2	--	1.0	--	--	--	--	--
MAR, 27...	304	8.2	--	9.0	--	--	--	--	--
APR, 11...	322	7.9	--	6.5	--	--	--	--	20
JUNE 20...	357	8.1	--	29.5	--	--	--	--	--
JULY 30...	298	8.6	26.5	34.0	10	8.6	8	4.4	40
AUG, 13...	340	8.5	26.5	24.5	20	7.8	7	4.2	30
SEP, 11...	340	8.2	24.0	25.0	1	8.0	2	3.4	30
OCT, 18...	322	--	--	14.0	--	--	--	--	--
NOV, 07...	314	8.4	17.0	14.5	10	7.6	12	5.4	30
DEC, 06...	352	8.2	13.0	7.5	10	10.2	1	4.4	30

RIO GRANDE BASIN

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08379500 PECOS RIVER NEAR ANTON CHICO, N. MEX.--Continued

TRACE ELEMENT ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L) (01002)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CK) (UG/L) (01030)	DIS- SOLVED COBALT (CO) (UG/L) (01035)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)
SEP. 11...	1215	1	1	30	0	<10	2	1	140
DEC. 06...	1131	0	0	30	0	<10	0	5	--

	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE- NIUM (SE) (UG/L) (01147)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
SEP. 11...	10	<100	9	0	<.1	<.1	0	0	0
DEC. 06...	10	--	3	--	--	--	0	0	30

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)
JULY 30...	1406	670	--
AUG. 13...	1100	63	340
SEP. 11...	1215	120	--
NOV. 07...	1400	6	47
DEC. 06...	1131	23	14

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDIM- ENT (MG/L) (80154)	SUS- PENDE SEDIM- ENT (MG/L) (80155)	SUS- PENDE SEDIM- ENT (MG/L) (80155)	SUS. SED. SIEVE DIAM. X FINER THAN .062 MM (70331)
JULY 30...	1406	34.0	1.0	4	.01	--	--
AUG. 13...	1100	24.5	11	38	1.1	--	--
NOV. 07...	1400	14.5	16	37	1.6	51	51
DEC. 06...	1131	7.5	12	24	.78	64	64

RIO GRANDE BASIN

08383000 PECOS RIVER AT SANTA ROSA, N. MEX.

LOCATION.--Lat 34°56'36", long 104°41'55", in NW¼SE¼ sec.3, T.8 N., R.21 E., Guadalupe County, 0.6 mi (1.0 km) downstream from gaging station, which is 0.6 mi (1.0 km) upstream from bridge on U.S. Highway 66, in Santa Rosa, 1.9 mi (3.1 km) upstream from El Rito Creek, and at mile 756.56 (1,217.2 km).

DRAINAGE AREA.--2,650 mi² (6,860 km²), approximately (contributing area).

PERIOD OF RECORD.--Chemical analyses: July 1905 to December 1906. November 1970 to December 1971 (discontinued).

Specific conductance: October 1964 to current year.

Water temperatures: October 1958 to current year.

Sediment records: October 1958 to current year.

EXTREMES:

Current year:

Specific conductance: Maximum daily, 2,500 micromhos Jan. 18; minimum daily, 401 micromhos Aug. 8.

Water temperatures: Maximum, 34.0°C July 26; minimum, freezing point Jan. 2, 9.

Sediment concentrations: Maximum daily, 19,100 mg/l Aug. 3; minimum daily, 4 mg/l Apr. 11.

Sediment discharge: Maximum daily, 58,500 tons (53,100 tonnes) Aug. 7; minimum daily, .17 ton (.15 tonne) Apr. 11.

Period of record:

Specific conductance: Maximum daily, 2,500 micromhos Jan. 18, 1974; minimum daily, 173 micromhos May 22, 1973.

Water temperatures: Maximum (1958-63, 1964-74), 38.0°C May 11, 1970; minimum, freezing point on several days during winter months of most years.

Sediment concentrations: Maximum daily, 31,400 mg/l Aug. 18, 1961; minimum daily, 3 mg/l Apr. 30, 1972.

Sediment discharge: Maximum daily, 344,000 tons (312,000 tonnes) July 30, 1971; minimum daily, .09 ton (.08 tonne) Apr. 30, 1972.

SPECIFIC CONDUCTANCE (MICROMHUS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE=DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1860	1470	1460	1580	1600	1770	1780	1060	1340	1770	1160	1740
2	1710	1490	1570	1640	1600	1760	1760	1270	1520	1730	1080	1720
3	1770	1510	1580	1620	1640	1720	1820	1030	1570	1800	1090	1770
4	1450	1490	1580	1600	1670	1700	1630	875	1630	1800	1090	1690
5	1260	1480	1560	1500	1630	1860	1850	525	1600	1780	1080	1690
6	1270	1510	1550	1540	1710	1810	1810	413	1640	1810	1090	1710
7	1260	1510	1530	1650	1670	1800	1810	416	1670	1620	1100	1690
8	1260	1730	1530	1640	1640	1830	1830	401	1650	1660	1130	1660
9	1590	1450	1520	1600	1660	1800	1400	470	1690	1720	1310	1840
10	1400	1450	1510	1640	1720	1850	1100	750	1750	1730	1540	1630
11	1610	1540	1450	1670	1780	1840	895	1050	1720	510	1510	1750
12	1570	1500	1530	1640	1760	1840	1340	1300	1770	657	1540	1760
13	1430	1530	1530	1660	1870	1780	1680	1400	1740	827	1590	1770
14	1480	1510	1570	1640	1810	1810	1790	1540	1570	1110	1680	1830
15	1450	1490	1520	1590	1820	1810	1770	1590	1580	996	1670	2020
16	1440	1460	1550	1620	1840	1870	1780	1600	1340	1230	1640	1910
17	1460	1450	1610	1620	1820	1850	1790	1640	875	1320	1590	1910
18	2500	1450	1590	1620	1780	1890	1880	1500	1150	1460	1610	1790
19	1430	1480	1580	1620	1740	1890	1920	1590	1360	1490	1640	1870
20	1420	1510	1540	1680	1880	1940	1840	1600	1580	1470	1680	1820
21	1430	1430	1600	1660	1810	1890	1840	1580	1570	1530	1680	1670
22	1470	1520	1590	1630	1770	1810	1840	1640	1590	1540	1670	1740
23	1500	1490	1600	1590	1710	1670	1870	1640	1520	1510	1680	1860
24	1510	1610	1630	1640	1710	1680	1830	1620	1590	1550	1630	1890
25	1500	1480	1560	1640	1700	1760	1840	1540	1660	1590	1650	2140
26	1480	1470	1580	1520	1660	1830	1830	465	1680	1020	1690	2020
27	1480	1490	1560	1640	1780	1840	1870	445	1730	1320	1680	2060
28	1540	1480	1630	1600	1790	1910	1840	428	1790	1420	1710	2080
29	1570	---	1590	1590	1840	1850	1840	425	1660	915	1710	1540
30	1530	---	1670	1630	1840	1830	1730	745	1780	820	1770	1690
31	1540	---	1600	---	1830	---	930	1080	---	950	---	1810
MONTH	1520	1500	1560	1620	1740	1820	1700	1080	1580	1380	1490	1810
YEAR	MAX	2500	MIN	401	MEAN	1570						

08383000 PECOS RIVER AT SANTA ROSA, N. MEX.--Continued

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE=DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.0	3.5	13.0	9.0	12.0	16.0	18.5	18.5	21.0	14.5	13.5	4.0
2	0.0	3.0	13.0	8.0	10.0	14.0	27.5	25.0	16.0	14.0	11.5	5.5
3	1.0	3.0	16.0	10.0	16.0	24.0	23.0	20.0	14.5	14.5	11.0	5.0
4	1.0	12.5	8.0	7.0	12.5	23.5	17.0	17.5	20.0	19.0	11.0	5.5
5	4.5	5.0	8.5	10.5	18.0	24.0	20.5	20.0	20.0	10.5	12.5	7.5
6	5.0	8.0	10.0	9.0	26.0	23.0	28.0	19.0	27.0	13.0	13.5	9.0
7	3.5	2.0	11.0	20.0	16.0	20.5	25.0	20.0	23.0	20.0	15.5	6.0
8	4.5	9.0	9.0	13.5	28.0	19.0	25.0	19.0	18.0	19.0	14.5	7.0
9	0.0	2.5	9.0	13.0	22.0	15.0	20.0	17.5	23.5	17.0	9.0	1.0
10	2.0	2.0	9.5	15.0	21.5	22.0	30.0	23.5	23.0	17.0	9.0	5.0
11	4.0	6.5	8.0	16.5	24.0	28.0	20.5	19.0	21.5	16.5	20.5	4.0
12	4.0	5.0	11.0	8.5	14.0	30.0	22.0	16.0	16.0	13.0	7.0	5.0
13	4.5	8.0	21.0	8.0	23.0	27.5	25.0	24.0	15.0	10.0	14.0	9.0
14	11.0	5.5	21.0	9.0	21.5	19.0	27.5	12.5	14.0	11.5	11.5	5.0
15	3.0	8.0	14.0	11.0	20.5	23.5	27.5	21.5	15.5	19.0	7.0	4.0
16	4.0	5.5	12.0	15.5	15.5	19.5	32.0	31.5	17.0	10.5	13.0	5.5
17	6.0	5.0	15.5	25.0	15.5	31.0	26.0	20.0	15.0	10.0	13.5	3.5
18	8.0	4.5	12.0	15.0	20.0	22.0	30.0	26.0	20.0	23.0	9.5	5.0
19	5.0	7.0	10.0	11.5	20.5	17.0	30.5	17.0	22.5	13.5	7.0	7.0
20	4.5	11.0	11.0	13.0	22.5	18.0	25.0	18.5	16.0	11.5	12.0	1.0
21	12.5	13.0	16.5	13.0	26.5	29.0	24.5	16.5	14.0	18.5	15.0	7.0
22	11.0	6.5	17.0	25.0	18.0	21.0	18.0	19.5	13.0	13.5	10.5	10.0
23	4.5	8.0	7.0	24.0	20.5	27.0	23.5	22.0	13.5	12.5	12.5	7.5
24	4.0	10.0	7.0	23.0	29.5	17.0	29.0	18.0	12.5	17.0	15.0	7.0
25	5.0	14.0	19.5	24.0	25.0	33.0	26.0	18.0	20.0	12.5	12.5	3.0
26	5.5	4.0	12.5	22.5	19.0	30.0	34.0	19.0	20.0	13.0	10.0	4.0
27	4.0	15.5	14.0	11.0	15.5	32.0	20.5	19.0	24.5	13.5	8.0	8.0
28	1.0	16.0	19.5	17.0	20.5	29.0	26.0	18.0	26.0	9.0	7.5	7.5
29	2.0	---	12.0	17.5	25.0	18.0	21.0	18.0	12.5	10.0	5.5	7.0
30	4.0	---	20.0	13.5	17.5	18.5	29.0	17.5	20.0	10.5	4.0	6.0
31	5.0	---	13.0	---	23.5	---	20.5	18.0	---	7.5	---	7.5
MONTH	4.5	7.5	13.0	14.5	20.0	23.0	25.0	19.5	18.5	14.0	11.0	6.0
YEAR	MAX	34.0	MIN	0.0	MEAN	14.5						

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	10	36	.97	22	21	1.2	12	74	2.4
2	10	38	1.0	20	23	1.2	12	75	2.4
3	10	28	.76	20	16	.86	12	55	1.8
4	8.0	151	3.3	22	23	1.4	11	34	1.0
5	27	75	5.5	19	20	1.0	12	23	.75
6	29	44	3.4	16	17	.73	12	14	.45
7	29	90	7.0	13	50	1.8	12	15	.49
8	35	32	3.0	10	29	.78	13	17	.60
9	18	23	1.1	15	28	1.1	12	26	.84
10	15	31	1.3	18	32	1.6	14	48	1.8
11	16	21	.91	16	20	.86	17	48	2.2
12	18	24	1.2	17	21	.96	13	20	.70
13	20	29	1.6	16	24	1.0	14	25	.95
14	19	21	1.1	17	21	.96	14	15	.57
15	17	20	.92	17	21	.96	14	18	.68
16	20	23	1.2	19	17	.87	14	10	.38
17	20	19	1.0	19	26	1.3	16	13	.56
18	24	25	1.6	19	26	1.3	14	24	.91
19	25	20	1.4	19	34	1.7	16	12	.52
20	25	22	1.5	19	33	1.7	17	8	.37
21	25	18	1.2	20	32	1.7	17	11	.50
22	25	15	1.0	19	25	1.3	17	16	.73
23	22	19	1.1	17	39	1.8	17	10	.46
24	25	23	1.6	14	26	.98	19	7	.36
25	25	16	1.1	16	36	1.6	19	12	.62
26	25	27	1.8	16	33	1.4	19	18	.92
27	25	23	1.6	14	28	1.1	14	13	.49
28	22	22	1.3	13	26	.91	12	16	.52
29	22	23	1.4	--	--	--	12	12	.39
30	22	42	2.5	--	--	--	12	13	.42
31	22	21	1.2	--	--	--	12	9	.29
TOTAL	655.0	--	55.56	482	--	34.07	441	--	26.07

RIO GRANDE BASIN

08383000 PECOS RIVER AT SANTA ROSA, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	12	9	.29	24	17	1.1	14	15	.57
2	13	9	.32	22	20	1.2	14	28	1.1
3	16	12	.52	19	25	1.3	14	27	1.0
4	17	15	.69	19	19	.97	13	28	.98
5	19	17	.87	19	30	1.5	13	28	.98
6	17	19	.87	17	33	1.5	13	24	.84
7	16	18	.78	17	21	.96	13	17	.60
8	16	11	.48	17	29	1.3	14	22	.83
9	17	16	.73	16	38	1.6	13	13	.46
10	19	7	.36	13	32	1.1	13	20	.70
11	16	4	.17	12	31	1.0	13	26	.91
12	17	14	.64	12	27	.87	13	26	.91
13	16	13	.56	11	31	.92	14	27	1.0
14	17	11	.50	10	30	.81	13	30	1.1
15	20	20	1.1	11	33	.98	12	25	.81
16	17	24	1.1	11	22	.65	13	18	.63
17	19	24	1.2	13	20	.70	13	30	1.1
18	19	14	.72	14	28	1.1	12	22	.71
19	19	12	.62	14	30	1.1	12	14	.45
20	17	13	.60	13	34	1.2	11	15	.45
21	17	12	.55	13	29	1.0	11	49	1.5
22	17	18	.83	14	27	1.0	11	72	2.1
23	17	15	.69	16	31	1.3	38	157	23
24	17	24	1.1	16	40	1.7	12	140	4.5
25	19	26	1.3	16	37	1.6	9.0	113	2.7
26	25	33	2.2	14	24	.91	8.1	82	1.8
27	24	34	2.2	14	26	.98	8.1	60	1.3
28	19	41	2.1	13	28	.98	9.0	60	1.5
29	19	28	1.4	13	29	1.0	10	44	1.2
30	19	19	.97	13	21	.74	12	53	1.7
31	--	--	--	13	25	.88	--	--	--
TOTAL	532	--	26.46	459	--	33.95	388.2	--	57.43

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	14	69	2.6	27	2500	182	20	220	12
2	14	72	2.7	20	1100	59	18	438	21
3	12	58	1.9	218	19100	12800	16	160	6.9
4	16	78	3.4	40	7000	872	15	151	6.1
5	12	60	1.9	900	12100	30000	15	167	6.8
6	13	45	1.6	317	14700	12800	15	144	5.8
7	13	3250	114	1380	13800	58500	15	128	5.2
8	40	6440	1630	372	10300	10300	15	132	5.3
9	20	10100	545	150	7000	2840	14	105	4.0
10	80	4830	1170	56	2400	363	14	142	5.4
11	83	3750	966	33	550	49	14	124	4.7
12	27	270	20	25	270	18	13	123	4.3
13	19	150	7.7	20	260	14	13	134	4.7
14	16	182	7.9	17	166	7.6	19	172	8.8
15	19	150	7.7	16	227	9.8	20	90	4.9
16	14	167	6.3	16	180	7.8	29	90	7.0
17	12	105	3.4	17	280	13	54	1980	289
18	11	111	3.3	16	196	8.5	39	690	73
19	11	122	3.6	14	179	6.8	25	184	12
20	10	125	3.4	16	262	11	22	171	10
21	10	190	5.1	17	170	7.8	20	195	11
22	10	95	2.6	17	168	7.7	20	354	19
23	9.0	93	2.3	16	170	7.3	20	193	10
24	9.0	91	2.2	19	143	7.3	19	168	8.6
25	10	83	2.2	22	160	9.5	17	141	6.5
26	10	49	1.3	502	14000	21500	16	150	6.5
27	9.0	135	3.3	280	8500	6430	14	122	4.6
28	10	82	2.2	112	3700	1170	13	106	3.7
29	12	255	8.3	169	5740	2800	13	81	2.8
30	40	7360	1930	41	1800	199	13	90	3.2
31	81	16700	4040	22	400	24	--	--	--
TOTAL	666.0	--	10501.9	4887	--	161024.1	570	--	572.8

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DECEMBER

CAL YR 1974	TOTAL WATER DISCHARGE (CFS-DAYS)	12024.20
CAL YR 1974	TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)	204563.22
WTR YR 1974	TOTAL WATER DISCHARGE (CFS-DAYS)	11412.20
WTR YR 1974	TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)	172594.34

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

[illegible]

RIO GRANDE BASIN

08383500 PECOS RIVER NEAR PUERTO DE LUNA, N. MEX.
(Surveillance network station)

LOCATION.--Lat 34°43'48", long 104°31'28", in NE 1/4 sec. 20, T. 6 N., R. 23 E., Guadalupe County, at gaging station 9 mi (14.5 km) southeast of Puerto de Luna, 15.8 mi (25.4 km) upstream from Alamogordo Dam, and at mile 726.2 (1,168.5 km).

DRAINAGE AREA.--3,970 mi² (10,280 km²), approximately (contributing area).

PERIOD OF RECORD.--Chemical analyses: July 1939 to September 1941, December 1942 to April 1943, November 1946 to June 1959, October 1967 to current year.

Water temperatures: June 1949 to June 1959, October 1967 to August 1969.

Sediment records: January 1948 to November 1958.

REMARKS.--Formerly published as 8-3834. Pecos River at Puerto de Luna, N. Mex., which was located at bridge in the village of Puerto de Luna, 9 mi (14.5 km) northwest of the gaging station.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MNN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (MCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)
JAN, 18...	1230	94	14	20	--	510	61	80	2.3	164	0	1300
FEB, 14...	1045	92	14	40	13	510	61	84	2.2	137	0	1400
MAR, 14...	1115	90	14	0	--	510	64	87	4.0	134	0	1400
APR, 04...	1315	76	14	30	--	550	68	94	2.3	102	0	1600
MAY 16...	1200	62	15	--	--	580	73	92	--	123	0	1600
JUNE 21...	1000	60	15	10	--	560	72	100	2.7	114	0	1500
JULY 19...	1100	62	15	30	30	560	70	92	2.6	119	0	1500
NOV, 27...	1320	99	13	--	--	520	72	90	2.7	82	0	1500

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRATE (N) (MG/L) (00613)	TOTAL NITRATE (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)
JAN, 18...	120	.6	.11	.02	.14	.13	.01	.09	.24	.06	.04	2360
FEB, 14...	130	.6	.05	.00	.07	.05	.00	.12	.19	.02	.02	2420
MAR, 14...	130	.5	.02	.00	.02	.02	.07	.09	.18	.04	.04	2480
APR, 04...	130	.7	.01	.00	.01	.01	.02	.03	.06	.02	.02	2600
MAY 16...	130	.7	.00	.00	.02	.00	.04	.16	.22	.04	.01	2770
JUNE 21...	150	.7	.08	.00	.08	.08	.05	.29	.42	.07	.02	2790
JULY 19...	140	.6	.00	.00	.00	.00	.06	.02	.08	.07	.02	2720
NOV, 27...	140	.4	--	--	--	.01	--	--	--	--	--	--

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTIT- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED OXYGEN (MG/L) (00300)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN, 18...	2170	1500	1400	.9	2560	8.1	4.5	7.5	10.4	2.2	90
FEB, 14...	2270	1500	1400	.9	2650	8.3	10.0	7.0	10.8	2.4	140
MAR, 14...	2280	1500	1400	1.0	2720	7.7	20.0	12.0	9.8	3.8	90
APR, 04...	2510	1700	1600	1.0	2770	8.4	11.0	12.5	9.5	1.2	100
MAY 16...	2550	1800	1700	1.0	2970	8.0	30.0	21.5	7.4	2.3	110
JUNE 21...	2460	1700	1600	1.1	2940	8.2	31.0	23.0	8.2	7.1	110
JULY 19...	2440	1700	1600	1.0	2918	8.2	30.0	24.5	7.3	2.3	120
NOV, 27...	2380	1600	1500	1.0	2720	7.7	--	11.5	--	--	--

RIO GRANDE BASIN

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08383500 PECOS RIVER NEAR PUERTO DE LUNA, N. MEX.--Continued

TRACE ELEMENT ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	DIS- SOLVED ALUM- INUM (AL) (UG/L) (01106)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BERYL- LIUM (BE) (UG/L) (01010)	DIS- SOLVED BISMUTH (BI) (UG/L) (01015)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)
FEB. 14...	1045	70	0	30	0	<1	140	<5	0	--
JULY 19...	1100	--	1	<100	--	--	120	<1	--	0

DATE	DIS- SOLVED COBALT (CO) (UG/L) (01035)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED GALLIUM (GA) (UG/L) (01120)	DIS- SOLVED GER- MANIUM (GE) (UG/L) (01125)	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)
FEB. 14...	<10	<8	<8	<35	40	<100	2	30	13	.0
JULY 19...	--	2	--	--	30	<100	--	--	30	.0

DATE	DIS- SOLVED MOLYB- DENUM (MO) (UG/L) (01060)	DIS- SOLVED NICKEL (NI) (UG/L) (01065)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED STRON- TIUM (SR) (UG/L) (01080)	DIS- SOLVED TIN (SN) (UG/L) (01100)	DIS- SOLVED TAN- IUM (TI) (UG/L) (01150)	DIS- SOLVED VANA- DIUM (V) (UG/L) (01085)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L) (01160)
FEB. 14...	2	13	0	2	7000	<30	5	8.0	14	<50
JULY 19...	--	--	0	0	--	--	--	--	10	--

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	FECAL COLI- FORM (COL. PER 100 ML) (31616)
JAN. 18...	1230	1600
FEB. 14...	1045	8
MAR. 14...	1115	47
APR. 04...	1315	0
MAY 16...	1200	51
JUNE 21...	1000	23
JULY 19...	1100	280

08384500 PECOS RIVER BELOW ALAMOGORDO DAM, N. MEX.

LOCATION.--Lat 34°36'15', long 104°23'14', in lot 1, sec.2, T.4 N., R.24 E., De Baca County, at gaging station 1,200 ft (366 m) downstream from Alamogordo Dam, 2.9 mi (4.7 km) upstream from Salada Creek, 4.6 mi (7.4 km) northeast of Guadalupe, 12.2 (19.6 km) northwest of Fort Sumner, and at mile 710.7 (1,143.5 km).

DRAINAGE AREA.--4,390 mi² (11,370 km²), approximately (contributing area).

PERIOD OF RECORD.--Chemical analysis: June 1937 to January 1966.

Specific conductance: March 1972 to current year.

Water temperature: March 1972 to current year.

Sediment records: March 1972 to current year.

REMARKS.--Records of reservoir levels and contents furnished by Bureau of Reclamation.

INSTANTANEOUS SUSPENDED SEDIMENT, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PEN- DED DIS- CHARGE (MG/L) (80154)	SUS- PEN- DED SEDIM- ENT CHARGE (T/DAY) (80155)	ELE- VATION ABOVE MEAN SEA LEVEL (FT) (72020)	RESER- VOIR STORAGE (AC-FT) (00054)
JAN.								
07...	1300	1370	6.5	5.2	31	.44	4272	95510
14...	1000	1425	4.0	5.5	32	.48	4272	97150
18...	1115	1425	6.0	5.5	20	.30	4272	97560
21...	0900	1470	5.0	5.5	10	.15	4272	98410
24...	1100	1940	5.0	97	38	10	4272	98630
28...	1000	1515	5.0	92	127	32	4272	98630
FEB.								
04...	1000	1440	4.5	92	24	6.0	4272	98410
11...	0830	1475	4.0	6.8	32	.59	4272	98830
19...	0800	1500	4.5	6.1	103	1.7	4273	100100
25...	1000	1500	4.5	6.1	125	2.1	4273	101000
MAR.								
03...	1000	1530	8.0	6.5	64	1.1	4273	101800
04...	1000	1535	7.5	6.5	38	.67	4273	101800
11...	1000	1510	8.0	92	38	9.4	4273	102200
15...	1750	1530	9.0	1130	23	70	4273	102200
18...	0900	1600	9.5	1110	25	75	4272	95920
25...	1530	1580	10.5	1090	25	74	4268	81960
APR.								
02...	0900	1610	11.0	78	28	5.9	4265	71890
04...	1500	1635	11.0	80	21	4.5	4265	71890
09...	1100	1600	11.5	78	38	8.0	4265	71560
15...	0900	1680	11.0	57	64	9.8	4265	70910
22...	0900	1730	12.0	60	42	6.8	4265	70910
29...	1030	1725	13.0	65	40	7.0	4265	71230
MAY								
07...	0900	1740	15.0	67	45	8.1	4265	70910
16...	1600	1830	17.5	1090	1980	5830	4261	59480
21...	1900	1840	18.0	990	112	299	4256	49520
27...	0800	1910	18.0	930	136	342	4253	39680
JUNE								
05...	0800	1998	18.0	70	139	26	4253	39460
05...	1800	1999	19.0	70	135	26	4253	39460
06...	1730	1997	19.0	70	112	21	4253	39460
10...	0900	2020	19.0	64	103	18	4253	39020
11...	1500	2020	20.0	64	79	14	4253	39020
12...	0800	2010	19.0	71	13	2.5	4253	38800
13...	2000	2020	19.0	64	72	12	4253	38800
17...	0730	2020	19.5	66	74	13	4253	38590
18...	1530	2060	21.0	65	123	22	4253	38590
19...	0700	2050	19.0	66	71	13	4253	38590
21...	1030	2000	20.5	846	92	210	4252	35900
24...	1600	2010	22.0	860	135	313	4249	30300
JULY								
03...	1900	2140	23.5	779	122	257	4238	14530
08...	1730	2240	23.5	735	147	292	4227	4910
09...	1730	2280	24.0	75	171	35	4226	4000
10...	1800	2270	24.0	67	144	26	4226	4230
11...	0800	2340	28.0	74	153	31	4226	4410
12...	1000	2290	24.0	58	185	29	4227	4660
14...	0800	2250	23.0	67	198	36	4227	4910
15...	0800	2250	23.0	64	128	22	4227	4980
16...	0800	2280	28.0	66	158	28	4227	4980
18...	1500	2280	28.0	66	149	27	4227	5050
19...	0800	2310	23.0	65	124	22	4227	5050
19...	0945	2300	23.0	56	160	24	4227	5050
21...	1930	2400	23.0	61	148	24	4227	4980
22...	0700	2380	23.0	63	112	19	4227	4980
23...	1830	2380	24.0	78	138	29	4227	4910
24...	1930	2400	23.5	73	134	26	4227	4850
25...	0800	2420	24.0	74	123	25	4227	4790
29...	0800	2510	24.0	86	64	15	4226	4480

RIO GRANDE BASIN

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08384500 PECOS RIVER BELOW ALAMOGORDO DAM, N. MEX.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDED SEDI- MENT (MG/L) (80154)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY) (80155)	ELE- VATION ABOVE MEAN SEA LEVEL (FT) (72020)	RESER- VOIR STORAGE (AC-FT) (00054)
AUG.								
05...	1000	2340	22.0	91	3340	821	4230	6680
07...	2000	1940	22.5	59	56600	9020	4240	17410
08...	1600	1950	21.0	77	1170	243	4242	19660
08...	2000	1940	20.5	77	372	77	4242	19810
09...	0800	1910	20.5	77	234	49	4243	20370
10...	0800	1775	26.5	77	136	28	4243	20930
12...	1550	1730	22.5	78	107	23	4243	21230
12...	2000	1630	20.0	768	123	255	4243	21230
13...	1600	1440	21.0	768	269	558	4242	19810
19...	1930	1390	23.5	724	87	170	4233	9220
21...	1900	1630	23.4	691	80	149	4228	5580
22...	0905	1560	23.0	670	192	347	4227	4540
22...	2100	1510	23.0	659	59	105	4225	3600
23...	1800	1530	23.0	101	151	41	4224	3340
24...	0800	1630	22.0	99	125	33	4224	3280
25...	0900	1725	21.5	97	128	34	4224	3280
26...	1900	1960	21.0	100	101	27	4226	4290
27...	1700	1810	21.0	99	103	28	4228	5730
28...	1700	1705	22.0	99	99	26	4230	6600
29...	0810	1580	21.5	99	163	44	4230	7140
SEP.								
04...	1400	1630	20.0	100	145	39	4231	8020
05...	0930	1620	19.5	102	123	34	4231	7940
06...	0800	1640	19.5	107	106	31	4231	7940
09...	0800	1425	18.5	100	69	19	4232	8780
11...	1400	1530	20.5	100	84	23	4232	8610
11...	1556	1520	--	100	95	26	4232	8610
12...	0800	1540	19.0	101	76	21	4232	8520
16...	1140	1910	18.5	80	86	19	4232	8440
OCT.								
02...	1830	1960	16.5	74	104	21	--	--
03...	1800	2020	16.0	76	89	18	--	--
17...	1845	2040	15.5	31	14800	1240	4243	21230
18...	1830	1960	15.0	78	348	73	4243	21370
25...	0930	1990	15.0	,49	211	,28	4244	22260
28...	0805	2050	15.0	74	200	40	4244	22710
NOV.								
13...	1600	2030	12.0	,51	85	,12	4247	26920

08386000 PECOS RIVER NEAR ACME, N. MEX.

LOCATION.--Lat 33°32'10", long 104°22'34", in SW¼NW¼ sec.14, T.9 S., R.25 E., Chaves County, at gaging station, 3.0 mi (4.8 km) downstream from U.S. Highway 70, 3.7 mi (6.0 km) downstream from Salt Creek, 4.7 mi (7.6 km) southwest of Acme, 14 mi (22.5 km) northeast of Roswell, and at mile 591.2 (951.2 km).

DRAINAGE AREA.--11,380 mi² (29,470 km²), approximately (contributing area).

PERIOD OF RECORD.--Chemical analyses: July 1937 to current year.

Water temperatures: May 1952 to August 1969.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HC03) (MG/L) (00440)	CAR- BONATE (C03) (MG/L) (00445)	DIS- SOLVED SULFATE (S04) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
JAN,												
04...	1130	7.2	16	--	520	120	460	5.2	164	0	1600	660
25...	1110	14	12	--	430	110	380	7.5	125	0	1400	570
FEB,												
13...	1055	34	13	--	400	93	240	4.9	132	0	1300	320
MAR,												
05...	1015	8.4	12	--	510	130	450	5.5	117	0	1700	680
15...	1035	8.8	11	20	510	130	450	6.2	101	0	1700	690
18...	1100	689	13	30	340	61	110	3.3	136	0	970	150
22...	0945	856	11	40	310	44	68	2.4	135	0	830	88
APR,												
10...	1010	40	14	180	430	85	230	4.4	115	0	1400	320
MAY												
10...	1010	3.3	13	--	570	130	570	6.2	108	0	1800	880
14...	1015	649	12	--	370	54	82	3.2	119	0	990	110
20...	1135	807	12	--	340	50	69	2.9	119	0	940	91
JUNE												
07...	1145	15	15	--	470	90	240	4.6	90	0	1500	320
14...	1025	.06	17	--	560	110	340	6.4	116	0	1700	480
AUG,												
09...	1130	28	12	--	240	36	120	4.5	91	--	690	150
19...	1045	486	11	--	230	35	48	3.4	106	0	590	60
29...	1135	70	10	--	270	40	92	4.8	97	0	730	110
SEP,												
20...	0955	84	12	--	350	77	180	4.8	100	0	1100	240
27...	1100	52	12	--	310	71	190	4.2	104	0	990	260
OCT,												
21...	1300	35	13	60	370	82	250	4.6	98	0	1200	370
NOV,												
12...	1050	34	13	--	410	89	330	4.4	98	0	1300	480
DEC,												
20...	1005	16	13	--	470	110	410	4.4	145	0	1500	630

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO, PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (CA,MG) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN,												
04...	.8	.46	--	--	3460	1800	1700	4.7	4370	7.8	.0	--
25...	.6	.24	--	--	2970	1500	1400	4.2	3980	7.9	3.5	--
FEB,												
13...	.6	.49	--	--	2440	1400	1300	2.8	3190	7.9	8.0	--
MAR,												
05...	.6	.34	--	--	3550	1800	1700	4.6	4670	8.0	7.0	--
15...	.6	.03	.03	3840	3550	1800	1700	4.6	4820	8.0	13.0	360
18...	.2	.23	.03	1890	1720	1100	990	1.4	2280	7.7	12.0	130
22...	.7	.14	.00	1510	1420	960	840	1.0	1870	7.8	7.0	80
APR,												
10...	.9	.37	.00	2620	2540	1400	1300	2.7	3170	7.9	13.5	220
MAY												
10...	.5	.01	--	--	4020	2000	1900	5.6	5590	7.8	22.0	--
14...	.5	.08	--	--	1680	1100	1000	1.1	2140	7.8	18.0	--
20...	.5	.09	--	--	1560	1100	960	.9	2050	7.8	20.0	--
JUNE												
07...	.6	.07	--	--	2680	1500	1500	2.7	3330	7.8	26.0	--
14...	.6	.02	--	--	3270	1900	1800	3.4	4200	7.7	24.0	--
AUG,												
09...	.7	.61	--	--	1300	750	670	1.9	1860	--	26.5	--
19...	.5	.79	--	--	1030	720	630	.8	1450	7.7	22.0	--
29...	.5	.46	--	--	1310	840	760	1.4	1800	7.7	23.0	--
SEP,												
20...	.5	.27	--	--	2020	1200	1100	2.3	2690	7.8	19.0	--
27...	.5	.20	--	--	1890	1100	1000	2.5	2570	7.8	20.5	--
OCT,												
21...	.5	.00	.00	2490	2340	1300	1200	3.1	3200	7.7	18.0	280
NOV,												
12...	.5	.11	--	--	2680	1400	1300	3.9	3700	7.9	12.0	--
DEC,												
20...	.5	.27	--	--	3210	1600	1500	4.4	4300	7.7	1.0	--

08396500 PECOS RIVER NEAR ARTESIA, N. MEX.
(Irrigation, and surveillance network station)

LOCATION.--Lat 32°50'25", long 104°19'23", in NW 1/4 sec. 18, T. 17 S., R. 27 E., Eddy County, at gaging station at bridge on State Highway 83, 4.3 mi (6.9 km) east of Artesia, 7.0 mi (11.3 km) north of mouth of Rio Pecos, 17 mi (27.4 km) north of McMillan Dam, and at mile 507.1 (815.9 km).

DRAINAGE AREA.--15,300 mi² (39,630 km²), approximately (contributing area).

PERIOD OF RECORD.--Chemical analyses: July 1937 to current year.

Water temperatures: April 1949 to current year.

Sediment records: January 1949 to current year.

EXTREMES:

Current year:

Dissolved solids: Maximum, 10,400 mg/l June 19; minimum, 488 mg/l Sept. 22-25.

Hardness: Maximum, 3,100 mg/l June 19; minimum, 270 mg/l Sept. 22-25.

Specific conductance: Maximum daily, 19,600 micromhos Aug. 7; minimum daily, 464 micromhos Sept. 23.

Water temperatures: Maximum, 33.0°C Aug. 10; minimum, freezing point Jan. 3-4.

Sediment concentrations: Maximum daily, 7,800 mg/l Oct. 15; minimum daily, 1 mg/l Feb. 24.

Sediment discharge: Maximum daily, 47,200 tons (42,800 tonnes) Sept. 23; minimum daily, .07 ton (.06 tonne) Feb. 24.

Period of record:

Dissolved solids: Maximum, 18,000 mg/l June 6, 1972; minimum, 461 mg/l May 31, 1963.

Hardness: Maximum, 4,740 mg/l May 3; minimum, 235 mg/l May 31, 1963.

Specific conductance: Maximum daily, 28,600 micromhos June 24, 1971; minimum daily, 464 micromhos Sept. 23, 1974.

Water temperatures: Maximum, 36.0°C July 27, 1966, July 25, 1969; minimum, freezing point on many days during winter period.

Sediment concentrations: Maximum daily, 21,300 mg/l Aug. 1, 1962; minimum daily, no flow on many days during July 1953, July and August 1954, July 1957, July to October 1964.

Sediment discharge: Maximum daily, 183,000 tons (166,000 tonnes) Sept. 26, 1955; minimum daily, 0 tons (0 tonnes) on many days during July 1953, July and August 1954, July 1957, July to October 1964.

CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- CHARGE (CFS) (00060)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NESIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED POT- ASSIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAH- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLOR- IDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)
JAN.												
01-31	48	11	--	560	190	1100	12	193	0	1800	1800	.9
FEB.												
01-21	38	8	--	560	210	1200	12	131	0	1900	1900	.8
22-28	30	1.5	--	600	220	1300	15	149	0	2000	2200	.7
MAR.												
01-18	28	12	--	450	250	1500	15	156	0	2100	2500	.9
19-31	748	14	--	340	55	130	3.5	145	0	920	180	1.3
APR.												
01-05	281	8.8	--	310	51	110	3.6	40	0	940	150	.5
06-10	36	13	--	430	94	360	6.5	145	0	1200	590	.6
11-19	24	16	--	540	150	750	10	136	0	1500	1300	.8
20-30	23	15	--	660	220	1400	16	152	0	2100	2400	.8
MAY												
01-13	17	14	--	680	260	1700	22	154	0	2200	2900	.6
14-17	398	34	--	450	85	260	6.0	146	0	1300	400	.6
18-31	572	17	--	380	55	110	4.2	127	0	1000	160	.7
JUNE												
01-04	45	14	--	430	74	230	6.5	115	0	1300	350	.7
05-12	6.9	17	--	560	130	780	12	136	0	1800	1200	.6
13-24	4.5	19	--	800	250	2000	27	158	0	2400	3400	.7
25-30	346	17	--	460	74	190	6.2	124	0	1300	260	.7
JULY												
01-14	376	17	--	440	54	110	4.6	114	0	1200	160	.6
15-19	28	16	--	500	82	290	6.5	103	0	1400	460	.6
20-23	12	18	--	610	130	840	12	121	0	1700	1400	.7
24-31	5.8	18	--	690	210	1600	20	126	0	2300	2500	.7
AUG.												
01-12	4.7	17	--	790	260	2500	32	149	0	2500	4000	.7
13-17	18	12	--	490	130	660	11	102	0	1400	1200	.7
18-31	330	14	--	290	51	140	5.2	129	0	760	210	.6
SEP.												
01-10	40	16	--	360	120	600	9.3	97	0	1300	1000	.6
11-18	22	13	--	610	240	1400	14	116	0	1900	2300	.6
19-21	111	14	--	340	140	560	7.6	104	0	1200	920	.6
22-25	3800	14	--	82	16	64	4.8	166	0	130	93	.6
26-27	357	14	--	210	68	330	7.7	157	0	570	520	.3
28-30	155	16	--	280	150	740	9.6	174	0	1100	1200	.6
OCT.												
01-12	92	16	10	550	210	1400	9.0	159	0	1700	2200	.6
13-16	398	12	--	300	64	360	5.6	150	0	840	580	.5
17-22	204	15	--	360	110	650	6.8	185	0	960	1100	.6
23-26	1460	8.8	--	150	34	170	4.3	136	0	350	260	.3
27-31	276	13	--	350	100	610	5.8	173	0	1000	980	.5
NOV.												
01-08	177	18	--	500	170	1000	8.5	226	0	1600	1700	.6
09-30	117	17	--	580	190	1300	10	227	0	1900	2200	.7
DEC.												
01-31	90	14	--	610	230	1400	12	229	0	1900	2300	.8
CALENDAR YEAR												
WTD. AVG.	--	15	--	323	75	347	5.9	151	0	906	555	.7
TIME WTD.												
AVG.	198	14	--	525	163	989	12	157	0	1630	1620	.7
TOT. LOAD (TONS)	--	2840	--	63200	14600	67800	1150	29400	0	177000	109000	137
WATER YEAR												
WTD. AVG.	--	15	--	307	63	241	5.4	143	0	855	379	.7
TIME WTD.												
AVG.	182	14	--	510	155	895	11	147	0	1590	1480	.7
TOT. LOAD (TUNNS)	--	2650	--	54900	11300	43200	971	25600	0	155000	67900	129

RIO GRANDE BASIN

08396500 PECOS RIVER NEAR ARTESIA, N. MEX.--Continued

CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- SOLVED NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHOPHOS- PHATE (P) (MG/L) (00671)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCTI- VANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)
JAN, 01-31	1.3	--	--	--	5570	7.58	722	2200	2000	10	8050	7.7
FEB, 01-21	.16	--	--	--	5850	7.96	600	2300	2200	11	8620	7.5
22-28	.03	--	--	--	6410	8.72	519	2400	2300	12	9400	7.5
MAR, 01-18	.21	--	--	--	7110	9.67	538	2700	2500	13	10600	7.4
19-31	.51	--	--	--	1720	2.34	3470	1100	960	1.7	2290	7.5
APR, 01-05	.00	--	--	--	1590	2.16	1210	980	950	1.5	2080	7.9
06-10	.43	--	--	--	2770	3.77	269	1500	1300	4.1	3850	7.6
11-19	.28	--	--	--	4340	5.90	281	2000	1900	7.4	6400	7.5
20-30	.38	--	--	--	6890	9.37	428	2600	2400	12	10100	7.5
MAY, 01-13	.38	--	--	--	7850	10.7	360	2800	2600	14	11300	7.4
14-17	.30	--	--	--	2610	3.55	2800	1500	1400	2.9	3440	7.5
18-31	.29	--	--	--	1790	2.43	2760	1200	1100	1.4	2340	7.5
JUNE, 01-04	.28	--	--	--	2460	3.35	299	1400	1300	2.7	3150	7.5
05-12	.21	--	--	--	4570	6.22	85.1	1900	1800	7.7	6340	7.3
13-24	.19	--	--	--	8980	12.2	109	3000	2900	16	13700	7.4
25-30	.57	--	--	--	2370	3.22	2210	1500	1400	2.2	2930	7.4
JULY, 01-14	.42	--	--	--	2040	2.77	2070	1300	1200	1.3	2580	7.6
15-19	.33	--	--	--	2810	3.82	212	1600	1500	3.2	3720	7.5
20-23	.28	--	--	--	4770	6.49	155	2100	2000	8.1	6970	7.4
24-31	.42	--	--	--	7400	10.1	116	2600	2500	14	10800	7.4
AUG, 01-12	.37	--	--	--	10200	13.9	129	3000	2900	20	15800	7.5
13-17	.16	--	--	--	3960	5.39	192	1800	1700	6.8	4080	7.4
18-31	.74	--	--	--	1540	2.09	1370	930	820	2.0	2210	7.6
SEP, 01-10	1.2	--	--	--	3460	4.71	374	1400	1300	7.0	5390	7.3
11-18	.54	--	--	--	6540	8.89	388	2500	2400	12	9860	7.3
19-21	.40	--	--	--	3240	4.41	971	1400	1300	6.5	5000	7.3
22-25	.33	--	--	--	488	.66	5010	270	130	1.7	850	7.6
26-27	1.4	--	--	--	1800	2.45	1740	800	670	5.1	3000	7.8
28-30	1.4	--	--	--	3590	4.88	1500	1300	1200	8.9	5890	7.6
OCT, 01-12	.37	.07	600	6490	6170	8.39	1530	2200	2100	13	9300	7.2
13-16	.49	--	--	--	2240	3.05	2410	1000	880	4.9	3340	7.4
17-22	1.9	--	--	--	3300	4.49	1820	1400	1200	7.7	5090	7.5
23-26	.82	--	--	--	1050	1.43	4140	510	400	3.3	1710	7.6
27-31	1.2	--	--	--	3150	4.28	2350	1300	1200	7.4	4860	7.5
NOV, 01-08	1.8	--	--	--	5120	6.96	2450	1900	1700	9.9	7640	7.6
09-30	1.7	--	--	--	6320	8.60	2000	2200	2000	12	9400	7.5
DEC, 01-31	1.8	--	--	--	6590	8.96	1600	2500	2300	12	9960	7.6
CALENDAR YEAR WTD, AVG, TIME WTD, AVG, TOT, LOAD (TONS)	.64 .74 126	-- -- --	-- -- --	-- -- --	2300 5040 451000	3.13 6.85 --	-- -- --	1120 1990 --	991 1850 --	3.9 9.0 --	3330 7400 --	7.6 7.5 --
WATER YEAR WTD, AVG, TIME WTD, AVG, TOT, LOAD (TONS)	.47 .57 85	-- -- --	-- -- --	-- -- --	1940 4730 347000	2.64 6.43 --	-- -- --	1040 1920 --	912 1790 --	2.9 8.3 --	2730 6860 --	7.6 7.5 --

08396500 PECOS RIVER NEAR ARTESIA, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CF8) (000061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NESIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED POT- ASSIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLOR- IDE (CL) (MG/L) (00940)
JAN, 16...	1430	51	8.9	30	530	170	900	10	186	0	1700	1500
FEB, 12...	1400	34	8.2	10	580	220	1300	12	156	0	2000	2100
MAR, 12...	1430	28	11	0	650	260	1600	17	153	0	2400	2700
APR, 17...	1400	18	13	20	550	160	900	13	130	0	1800	1500
MAY 14...	1615	575	11	10	480	100	310	6.1	130	0	1500	430
JUNE 19...	1500	5.0	15	20	830	260	2400	17	147	0	2900	3800
JULY 18...	1600	13	14	90	540	110	470	7.2	109	0	1600	740

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SULFOS (RESI- DUE A1 180 C) (MG/L) (70300)
JAN, 16...	.7	.73	.05	.85	.78	.25	.67	1.8	.16	.09	4950
FEB, 12...	.9	.00	.00	.03	.00	.04	.64	.71	.07	.03	6270
MAR, 12...	.9	.02	.00	.02	.02	.12	.43	.57	.08	.08	7510
APR, 17...	.8	.03	.00	.03	.03	.20	.42	.65	.79	.03	5110
MAY 14...	.8	.04	.00	.04	.04	.10	2.1	2.2	.85	.05	3070
JUNE 19...	.9	.01	.00	.01	.01	.07	.80	.88	.05	.04	10400
JULY 18...	.6	.02	.00	.02	.02	.24	.05	.31	.03	.00	3780

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED OXYGEN (MG/L) (00300)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN, 16...	4920	2000	1900	8.7	7080	8.3	20.5	8.0	11.4	4.8	400
FEB, 12...	6300	2400	2200	12	8920	8.2	22.5	10.0	12.0	4.4	500
MAR, 12...	7720	2700	2600	13	10700	8.2	25.0	17.0	11.4	6.6	590
APR, 17...	5000	2000	1900	8.7	7090	8.0	27.5	21.5	9.4	7.5	460
MAY 14...	2900	1600	1500	3.4	3790	7.8	34.5	22.5	6.4	15	240
JUNE 19...	10300	3100	3000	19	14300	8.1	38.5	30.0	7.8	10	940
JULY 18...	3540	1800	1700	4.8	4840	7.8	31.5	28.0	--	2.6	330

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	FECAL COLI- FORM (COL. PER 100 ML) (31616)
JAN, 16...	1430	0
FEB, 12...	1400	0
MAR, 12...	1430	8
APR, 17...	1400	5
MAY 14...	1615	930
JUNE 19...	1500	33
JULY 18...	1600	53

RIO GRANDE BASIN

08396500 PECOS RIVER NEAR ARTESIA, N. MEX.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	7690	8540	9540	2020	9480	2760	2520	12200	3500	7400	6250	9040
2	7980	8610	9450	2100	9480	2980	2520	12900	3630	8000	7000	9040
3	7920	8400	9630	2280	11620	3530	2520	13000	4180	8440	7660	9040
4	8240	8470	10400	2540	10690	3820	2560	13900	4530	9000	7660	9040
5	7980	8540	10500	2840	10690	4540	2520	15600	5210	9390	7390	8960
6	8310	8540	10600	3110	10280	4770	2510	13400	5500	10000	7720	8960
7	8660	9130	10200	3480	11820	5120	2520	19600	6040	10100	7890	9120
8	8660	8900	10200	3800	11910	6100	2510	16200	6650	10100	7780	9200
9	8580	8900	10400	4160	10800	7140	2540	16300	7080	10200	8270	9360
10	8510	8900	10500	4590	10800	8270	2560	15400	7470	10200	8540	9630
11	8510	8900	10500	5020	11680	8010	2530	15100	7900	8780	8820	9630
12	8370	8740	10500	5850	13040	8140	2520	14400	8650	7940	8900	9630
13	7980	8810	10600	6210	15080	1110	2570	6860	9010	4600	9050	9810
14	7520	8810	11000	6450	4740	1150	2840	4100	9820	2650	9130	9900
15	6910	8810	11000	6290	2670	1230	3100	5400	9820	2420	9210	9900
16	6870	7430	11000	6800	2570	1250	3600	6900	10100	2840	9300	10000
17	6960	6930	10700	6900	2730	1210	3880	7540	11900	4030	9910	10000
18	7050	7270	11000	7090	2520	1220	4620	4050	8260	4240	10200	10100
19	7150	7720	3710	7950	2310	1440	5120	2720	6230	4860	9810	10200
20	7300	7950	2690	8710	2270	1460	6120	2060	4160	5190	9720	10100
21	7290	8270	2450	9530	2280	1480	6580	1900	3300	5650	9460	10300
22	7560	8820	2210	9430	2260	1610	7380	1850	1150	6140	9300	10200
23	7610	9040	2220	9800	2200	1670	7940	1840	464	2900	9210	10300
24	7730	9120	2140	9170	2200	1640	9040	1840	589	1160	8680	10300
25	7850	9450	2070	9520	2230	4790	11000	1750	1480	1690	8680	10300
26	7790	9370	2040	10200	2230	2880	10400	1840	2170	2190	8750	10000
27	8050	9630	2010	11100	2230	2640	11500	2080	4190	3320	9130	10100
28	8170	9290	1990	11000	2260	2580	11000	2220	5290	4430	8900	10000
29	8310	---	1980	12300	2260	2550	11700	2450	5620	5190	8750	9900
30	8310	---	2000	11300	2220	2550	11100	2320	6160	5510	8820	9700
31	8440	---	2010	---	2460	---	11100	2970	---	5710	---	10000
MONTH	7880	8620	7010	6720	6190	3320	5510	7760	5670	5940	8660	9730
YEAR	MAX	19600	MIN	464	MEAN	6910						

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.5	8.0	17.5	16.0	18.0	27.5	25.5	30.0	30.0	18.5	17.0	8.0
2	1.0	11.5	15.0	14.5	23.5	25.5	26.0	29.5	22.0	18.0	17.5	6.5
3	0.0	9.0	15.0	13.0	20.0	26.5	25.5	24.5	24.5	21.0	18.5	10.5
4	0.0	3.5	16.5	12.5	24.5	23.5	26.0	24.0	21.0	21.5	18.5	9.5
5	3.5	8.0	13.0	15.0	20.0	31.0	26.5	29.5	23.5	20.0	17.0	9.5
6	5.0	3.0	8.0	19.0	20.0	24.0	27.0	22.0	25.0	18.0	13.5	11.0
7	5.0	6.0	16.5	16.5	23.0	25.0	26.5	24.5	26.0	20.0	13.0	12.0
8	2.5	9.5	12.0	17.0	25.0	23.5	27.0	27.0	28.5	22.0	11.0	9.0
9	6.0	4.0	15.0	19.5	25.5	25.5	27.0	31.5	29.0	23.0	12.0	8.5
10	6.5	4.5	11.5	17.0	25.0	24.5	27.5	33.0	25.5	23.0	11.0	6.5
11	9.5	7.0	10.0	20.0	21.5	25.5	27.0	25.5	26.0	21.0	10.0	9.0
12	3.0	5.0	9.5	19.0	22.0	27.0	26.0	27.0	26.0	18.5	7.0	10.0
13	3.5	14.0	19.0	18.5	22.5	30.0	24.0	30.0	20.0	19.0	14.0	9.0
14	4.0	13.0	20.0	20.0	22.0	28.0	27.0	32.0	20.0	16.5	11.0	8.0
15	5.0	10.0	13.5	20.0	24.5	28.5	25.0	32.0	18.5	16.5	10.0	4.0
16	7.0	13.5	12.0	20.5	23.5	29.0	28.0	26.0	25.0	15.0	11.0	8.0
17	6.5	9.5	20.0	22.0	22.5	29.0	27.0	29.5	20.0	16.0	13.0	9.0
18	9.5	12.5	13.0	18.0	23.5	28.5	27.0	28.5	21.0	17.5	13.0	10.0
19	12.0	7.5	17.5	23.0	24.5	25.0	24.0	25.0	23.5	21.0	15.5	6.0
20	12.0	10.0	15.0	18.5	24.0	28.5	29.5	26.5	20.5	26.0	11.0	5.0
21	12.5	5.5	12.5	22.0	22.0	30.0	29.5	27.0	19.0	17.5	10.0	9.0
22	13.0	5.0	12.5	21.5	20.0	26.5	32.0	25.0	5.0	19.0	13.5	7.0
23	8.0	11.5	13.5	22.0	23.0	30.0	32.0	23.0	5.0	17.0	12.0	11.0
24	7.5	5.0	11.5	23.0	22.5	28.0	25.0	22.5	5.0	19.5	13.5	6.0
25	6.0	12.0	13.0	22.5	25.0	25.5	32.5	23.0	5.0	18.5	9.5	12.0
26	10.5	10.5	14.0	22.0	25.5	27.5	26.0	23.5	19.0	17.0	9.0	4.0
27	9.5	5.0	15.5	25.0	25.0	25.0	30.5	23.0	21.5	17.0	12.5	5.0
28	10.0	11.0	15.0	23.0	25.0	25.0	30.0	24.0	21.5	17.0	11.0	9.0
29	4.0	---	16.0	20.5	25.5	24.5	30.0	25.0	18.5	16.5	10.0	7.0
30	6.5	---	16.5	17.0	24.5	25.0	28.5	25.5	19.0	17.0	8.5	10.0
31	6.5	---	15.5	---	25.0	---	27.0	29.0	---	16.0	---	9.0
MONTH	6.5	8.5	14.5	19.5	23.0	27.0	27.5	26.5	20.5	19.0	12.5	8.5
YEAR	MAX	33.0	MIN	0.0	MEAN	18.0						

RIO GRANDE BASIN

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08396500 PECOS RIVER NEAR ARTESIA, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	46	7	.87	41	7	.77	33	11	.98
2	44	10	1.2	44	6	.71	31	14	1.2
3	40	7	.76	44	5	.59	29	9	.70
4	32	4	.35	43	5	.58	26	10	.70
5	32	36	3.1	42	4	.45	28	7	.53
6	41	12	1.3	34	4	.37	29	19	1.5
7	43	80	9.3	36	11	1.1	28	15	1.1
8	43	9	1.0	34	9	.83	27	13	.95
9	44	21	2.5	32	19	1.6	27	37	2.7
10	46	16	2.0	32	4	.35	29	20	1.6
11	46	4	.50	35	124	12	28	9	.68
12	50	51	6.9	34	15	1.4	28	65	4.9
13	55	8	1.2	32	8	.69	28	10	.76
14	65	9	1.6	33	4	.36	28	12	.91
15	61	9	1.5	48	4	.52	28	14	1.1
16	51	18	2.5	52	66	9.3	28	12	.91
17	54	9	1.3	45	8	.97	26	6	.42
18	57	18	2.8	39	3	.32	28	18	1.4
19	55	16	2.4	36	6	.58	525	1850	2930
20	56	51	7.7	33	9	.80	694	2400	4500
21	54	6	.87	30	62	5.0	752	2340	4750
22	53	7	1.0	29	8	.63	806	2160	4700
23	53	6	.86	27	7	.51	788	1850	3940
24	52	5	.70	27	1	.07	767	1400	2930
25	52	4	.56	28	10	.76	765	1790	3700
26	50	6	.81	31	5	.42	762	1820	3740
27	47	5	.63	34	6	.55	754	1980	4030
28	46	5	.62	33	9	.80	746	1550	3120
29	46	4	.50	--	--	--	785	1920	4070
30	44	4	.48	--	--	--	806	5880	12800
31	41	6	.66	--	--	--	778	3280	6890
TOTAL	1499	--	58.47	1008	--	43.03	10237	--	62093.04

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	744	3820	7670	22	137	8.1	82	302	67
2	337	1830	1940	24	244	16	47	205	26
3	155	650	272	20	475	26	32	115	9.9
4	98	510	135	23	440	27	18	75	3.6
5	69	345	64	17	410	19	9.8	90	2.4
6	46	292	36	17	390	18	8.0	163	3.5
7	32	213	18	26	232	16	8.7	353	8.3
8	41	235	26	21	293	17	7.1	236	4.5
9	35	193	18	12	409	13	5.3	260	3.7
10	28	225	17	10	436	12	5.5	238	3.5
11	22	357	21	9.8	431	11	5.5	308	4.6
12	27	257	19	12	453	15	5.3	232	3.3
13	32	200	17	13	410	20	4.8	290	3.8
14	31	230	19	519	1940	2820	5.3	404	5.8
15	33	213	19	511	1730	2390	5.0	368	5.0
16	30	254	21	184	820	407	5.0	538	7.3
17	19	380	19	378	1370	1670	4.1	265	2.9
18	14	379	14	628	1750	2970	3.7	280	2.8
19	10	490	13	658	2150	3820	4.1	330	3.7
20	27	556	41	697	2060	3880	3.7	276	2.8
21	28	295	22	687	1760	3260	3.2	392	3.4
22	28	406	31	600	1920	3110	3.0	440	3.6
23	31	438	37	570	1580	2430	2.6	491	3.4
24	24	367	24	565	1700	2590	9.1	582	22
25	16	544	15	570	1790	2750	278	953	715
26	19	451	23	600	1510	2450	342	1310	1210
27	16	370	16	585	1650	2610	344	1120	1040
28	14	288	11	610	1840	3030	365	1300	1280
29	24	294	19	632	1390	2370	367	1060	1050
30	29	241	19	448	1280	1550	379	1090	1120
31	--	--	--	155	700	293	--	--	--
TOTAL	2059	--	10616	9823.8	--	44618.1	2362.8	--	6621.8

RIO GRANDE BASIN

08396500 PECOS RIVER NEAR ARTESIA, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

JULY				AUGUST				SEPTEMBER			
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)		
1	382	1100	1130	3.9	246	2.6	65	287	50		
2	396	1000	1070	3.5	234	2.2	45	130	16		
3	403	1140	1240	4.1	223	2.5	37	111	11		
4	401	1100	1190	4.3	179	2.1	36	93	9.0		
5	422	1200	1370	6.6	174	3.1	43	118	14		
6	410	1210	1340	6.0	212	3.4	40	110	12		
7	425	1150	1320	5.5	238	3.5	37	120	12		
8	438	1210	1430	6.3	235	4.0	37	92	9.2		
9	425	1190	1370	4.3	263	3.1	33	90	8.0		
10	428	1160	1340	3.3	245	2.2	28	142	11		
11	445	1030	1240	2.9	281	2.2	20	124	6.7		
12	391	940	992	6.0	150	2.4	19	124	6.4		
13	185	550	275	49	141	22	18	93	4.5		
14	111	344	103	25	86	5.8	16	98	4.2		
15	60	220	36	6.0	74	1.2	16	105	4.5		
16	29	175	14	4.4	178	2.1	18	119	5.8		
17	18	105	5.1	3.5	110	1.0	31	156	13		
18	15	104	4.2	214	2090	1450	39	149	16		
19	17	114	5.2	306	2450	2020	103	168	51		
20	14	120	4.5	331	2180	1950	122	227	75		
21	13	109	3.8	370	1820	1820	107	254	73		
22	10	126	3.4	415	1640	1840	2800	5700	41400		
23	9.8	137	3.6	574	2930	4870	5300	3300	47200		
24	9.8	137	3.6	532	3480	5000	5600	2370	35800		
25	6.8	114	2.1	552	4600	6860	1500	1830	7410		
26	6.3	150	2.6	418	2280	2570	450	1280	1560		
27	5.3	163	2.3	237	1400	896	264	510	364		
28	4.6	179	2.2	192	850	441	192	226	117		
29	4.4	181	2.2	260	1460	1070	148	188	75		
30	4.6	162	2.0	140	910	344	124	223	75		
31	4.2	144	1.6	85	550	126	--	--	--		
TOTAL	5493.8	--	15508.4	4770.6	--	31322.4	17288	--	134413.3		
OCTOBER				NOVEMBER				DECEMBER			
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)		
1	124	268	90	217	690	404	106	15	4.3		
2	111	35	10	185	418	209	104	31	8.7		
3	98	48	13	185	357	178	104	16	4.5		
4	88	33	7.8	190	317	163	104	18	5.1		
5	83	57	13	170	326	150	104	51	14		
6	88	36	8.6	163	275	121	98	58	15		
7	83	46	10	158	185	79	97	33	8.6		
8	81	28	6.1	151	185	75	96	13	3.4		
9	83	29	6.5	146	100	39	91	15	3.7		
10	83	29	6.5	141	57	22	91	28	6.9		
11	80	20	4.3	134	70	25	96	23	6.0		
12	96	770	200	130	93	33	91	19	4.7		
13	453	2620	3570	125	57	19	90	24	5.8		
14	458	4800	5940	122	38	13	88	21	5.0		
15	390	7800	8210	119	53	17	87	19	4.5		
16	291	4600	3610	109	77	23	87	18	4.2		
17	278	2400	1800	103	30	8.3	87	12	2.8		
18	234	1350	853	111	35	10	84	17	3.9		
19	203	690	378	109	40	12	83	19	4.3		
20	185	390	195	106	27	7.7	81	22	4.8		
21	161	400	174	108	45	13	84	12	2.7		
22	160	340	147	112	31	9.4	84	13	2.9		
23	748	1760	3600	116	62	19	83	18	4.0		
24	3200	2910	25100	116	31	9.7	80	14	3.0		
25	1300	3600	12600	112	16	4.8	81	11	2.4		
26	576	7610	11800	109	25	7.4	87	31	7.3		
27	348	2200	2070	112	17	5.1	85	20	4.6		
28	270	1050	765	114	20	6.2	84	31	7.0		
29	298	1150	925	109	17	5.0	85	28	6.4		
30	236	940	599	106	12	3.4	88	22	5.2		
31	228	1190	733				90	17	4.1		
TOTAL	11115	--	83444.8	3988	--	1691.0	2800	--	169.8		
CAL YR 1974 TOTAL WATER DISCHARGE (CFS-DAYS)									72445.00		
CAL YR 1974 TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)									390600.14		
WTR YR 1974 TOTAL WATER DISCHARGE (CFS-DAYS)									66340.00		
WTR YR 1974 TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)									394024.33		

RIO GRANDE BASIN

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08396500 PECOS RIVER NEAR ARTESIA, N. MEX.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDIM- ENT (MG/L) (80154)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN .002 MM (70337)	SUS. SED. FALL DIAM. % FINER THAN .004 MM (70338)	SUS. SED. FALL DIAM. % FINER THAN .016 MM (70340)
MAR.								
20...	1210	15.0	630	2360	4010	34	44	63
30...	1115	16.5	804	7090	15400	14	20	40
MAY								
15...	1700	24.5	453	1360	1660	29	44	71
26...	1705	25.5	610	1480	2440	24	34	58
JULY								
01...	1250	23.0	384	1190	1230	31	34	46
11...	1820	27.0	460	1010	1250	31	37	53
AUG.								
23...	1030	23.0	759	3550	7280	21	28	36
SEP.								
22...	0730	6.0	2850	7550	58100	38	50	81
25...	1015	5.0	1220	1830	6030	24	36	54
OCT.								
14...	1420	16.5	483	5400	7040	49	64	67
25...	1320	19.0	985	3350	8910	44	56	78
30...	1120	17.0	230	902	560	50	73	85

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN .250 MM (70344)	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70331)	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70332)	SUS. SED. FALL DIAM. % FINER THAN .250 MM (70333)	SUS. SED. FALL DIAM. % FINER THAN .500 MM (70334)
MAR.							
20...	91	100	--	--	--	--	--
30...	92	99	100	--	--	--	--
MAY							
15...	--	--	--	95	100	--	--
26...	--	--	--	91	99	99	100
JULY							
01...	75	94	100	--	--	--	--
11...	89	100	--	--	--	--	--
AUG.							
23...	84	100	--	--	--	--	--
SEP.							
22...	99	100	--	--	--	--	--
25...	82	99	100	--	--	--	--
OCT.							
14...	95	100	--	--	--	--	--
25...	90	97	100	--	--	--	--
30...	--	--	--	88	98	100	--

RIO GRANDE BASIN

08405000 PECOS RIVER AT CARLSBAD, N. MEX.

LOCATION.--Lat 32°24'42", long 104°13'17", in SE 1/4 NE 1/4 sec. 7, T.22 S., R.27 E., Eddy County, immediately downstream from Lower Tansil Dam, which is approximately 0.2 mi (0.3 km) upstream from Dark Canyon, and 0.5 mi (0.8 km) downstream from the Greene Street Bridge on U.S. Highway 62-180 in Carlsbad.

DRAINAGE AREA.--18,100 mi² (46,900 km²), approximately (contributing area).

PERIOD OF RECORD.--Chemical analyses: May 1905 to April 1907, May 1937 to September 1946, July 1951 to current year.
Water temperatures: July 1951 to current year.

EXTREMES:

Current year:

Dissolved solids: Maximum, 4,680 mg/l July 1-31; minimum, 395 mg/l Sept. 22-27.

Hardness maximum, 2,400 mg/l July 1-31; minimum, 250 mg/l Sept. 22-27.

Specific conductance: Maximum daily, 6,800 micromhos Aug. 3; minimum daily, 401 micromhos Sept. 23.

Water temperatures: Maximum, 32°C July 27, Aug. 15, 19; minimum, 4.5°C Jan. 3.

Period of record:

Dissolved solids: Maximum, 4,680 mg/l July 1-31, 1974; minimum, 335 mg/l Oct. 21, 1969.

Hardness: Maximum, 2,400 mg/l July 1-31; minimum, 216 mg/l Oct. 21, 1969.

Specific conductance: Maximum daily, 6,800 micromhos Aug. 3, 1974; minimum daily, 401 micromhos Sept. 23, 1974.

Water temperatures: Maximum, 38.0°C May 28, 1969; minimum, freezing point Dec. 18, 1965.

REMARKS.--Prior to impoundment above Lower Tansil Dam in January 1970 samples were collected at gage on Greene Street Bridge. Additional samples were collected at 08405200 Pecos River below Dark Canyon for comparison with those collected at this station. Mean daily discharges are estimated from the gage below Dark Canyon.

CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- CHARGE (CFS) (00060)	DIS- SOLVED SILICA (SiO2) (MG/L) (00935)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- SIUM (K) (MG/L) (00935)	BICAR- BONATE (MCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)
JAN, 01-31	13	17	--	340	110	310	4.9	172	0	1100	510	.7
FEB, 01-28	21	15	--	340	110	300	4.5	175	0	1100	500	.7
MAR, 01-31	6.4	14	--	380	130	350	4.9	162	0	1200	560	.8
APR, 01-30	6.8	12	--	390	130	360	5.0	142	0	1300	570	.7
MAY, 01-31	2.4	14	--	380	130	360	6.2	132	0	1300	610	.7
JUNE, 01-17	.43	13	--	430	150	430	8.2	125	0	1400	710	.9
18-30	.23	10	--	530	190	560	9.5	106	0	1900	920	1.0
JULY, 01-31	.32	18	--	600	210	680	10	120	0	2000	1100	1.1
AUG, 01-31	.21	13	--	480	180	520	9.6	113	0	1600	850	.8
SEP, 01-10	.24	13	--	470	160	500	5.0	108	0	1600	820	.8
11-17	1.2	14	--	500	180	570	5.1	115	0	1700	890	.8
18-21	9.8	5.8	--	230	96	270	3.3	100	0	820	420	.4
22-27	6230	9.6	--	77	15	32	2.6	119	0	150	46	.2
28-30	46	11	--	82	16	47	2.8	119	0	170	69	.2
OCT, 01-05	51	12	--	120	34	95	4.2	137	0	330	150	.3
06-16	147	11	--	160	38	120	3.9	121	0	460	200	.3
17-22	273	15	--	230	69	210	4.3	167	0	660	330	.5
23-31	10600	9.0	--	77	17	67	3.4	125	0	170	100	--
NOV, 01-31	1050	9.4	10	170	44	200	5.5	125	0	460	350	.3
DEC, 01-09	284	12	--	270	72	250	6.0	148	0	720	420	.1
10-30	107	16	--	350	97	320	6.1	178	0	1000	570	.2
CALENDAR YEAR, 01-31	109	17	--	420	110	360	5.7	190	0	1300	610	.7
WTD, AVG, TIME WTD, AVG,	--	10	--	133	32	104	3.6	129	0	336	170	.3
TOT, LOAD (TONS)	191	14	--	386	127	378	6.2	145	0	1250	621	.7
WATER YEAR, WTD, AVG, TIME WTD, AVG,	--	10	--	98	22	54	2.8	123	0	224	82	.2
TOT, LOAD (TONS)	111	15	--	401	136	395	6.1	149	0	1320	644	.8
	--	1110	--	10700	2460	5900	303	13400	0	24500	9000	26

RIO GRANDE BASIN

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08405000 PECOS RIVER AT CARLSBAD, N. MEX.--Continued

CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO, PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC=FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)
JAN, 01=31	.96	--	--	--	2480	3.37	87.0	1300	1200	3.7	3270	7.8
FEB, 01=28	.77	--	--	--	2460	3.35	139	1300	1200	3.6	3410	7.7
MAR, 01=31	1.0	--	--	--	2720	3.70	47.0	1500	1400	4.0	3870	7.6
APR, 01=30	.43	--	--	--	2840	3.86	52.1	1500	1400	4.0	3940	7.6
MAY, 01=31	.28	--	--	--	2870	3.90	18.6	1500	1400	4.1	4020	7.5
JUNE, 01=17	3.0	--	--	--	3220	4.38	3.74	1700	1600	4.6	4450	7.3
18=30	.25	--	--	--	4170	5.67	2.59	2100	2000	5.3	5600	7.4
JULY, 01=31	.59	--	--	--	4680	6.36	4.04	2400	2300	6.1	6470	7.3
AUG, 01=31	.71	--	--	--	3710	5.05	2.10	1900	1800	5.1	5260	7.4
SEP, 01=10	.62	--	--	--	3630	4.94	2.35	1800	1700	5.1	5090	7.2
11=17	.43	--	--	--	3920	5.33	12.7	2000	1900	5.6	5510	7.2
18=21	.32	--	--	--	1900	2.58	50.3	970	890	3.8	2870	7.4
22=27	.95	--	--	--	395	.54	6640	250	150	.9	667	7.6
28=30	.96	--	--	--	461	.63	57.3	270	170	1.2	785	7.6
OCT, 01=05	.94	--	--	--	817	1.11	113	440	330	2.0	1280	7.6
06=16	.68	--	--	--	1060	1.44	421	560	460	2.2	1600	7.7
17=22	.85	--	--	--	1610	2.19	1190	860	720	3.1	2390	7.5
23=24	.43	--	--	--	507	.69	14500	260	160	1.8	754	7.8
24=31	.55	.03	250	1100	1300	1.77	3690	610	510	3.5	2030	7.5
NOV, 01=09	.76	--	--	--	1830	2.49	1400	970	850	3.5	2730	7.5
10=30	1.2	--	--	--	2450	3.33	708	1300	1200	3.9	3530	7.6
DEC, 01=31	.87	--	--	--	2920	3.97	859	1500	1300	4.0	4000	8.1
CALENDAR YEAR WTD. AVG.	.81	--	--	--	856	1.17	--	463	356	1.8	1300	7.6
TIME WTD. AVG.	.82	--	--	--	2860	3.89	--	1490	1380	4.2	3990	7.6
TOT. LOAD (TONS)	152	--	--	--	161000	--	--	--	--	--	--	--
WATER YEAR WTD. AVG.	.95	--	--	--	558	.76	--	332	231	1.1	879	7.6
TIME WTD. AVG.	.88	--	--	--	2990	4.07	--	1560	1450	4.3	4130	7.6
TOT. LOAD (TONS)	104	--	--	--	61000	--	--	--	--	--	--	--

RIO GRANDE BASIN

08405000 PECOS RIVER AT CARLSBAD, N. MEX.--Continued

SPECIFIC CONDUCTANCE (MICROMHUS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	3460	3350	3720	3940	3760	4310	6050	6500	4690	882	2420	3770
2	3470	3320	3750	3920	3230	4270	6150	6580	4760	1000	2470	3920
3	3460	3350	3760	3920	3770	4310	6300	6800	4740	1160	2490	3830
4	3460	3340	3770	3950	3770	4340	6340	6650	4730	1240	2610	3770
5	3460	3340	3800	3920	3790	4330	6080	6440	4820	1440	2610	3770
6	3460	3340	3820	3910	3790	4360	6080	5830	4930	1620	2690	3920
7	3430	3340	3800	3910	3790	4380	6150	5280	5000	1370	2810	3870
8	3420	3370	3800	3880	3800	4420	6080	5440	5050	1200	2880	3830
9	3430	3370	3830	3860	3840	4460	6010	5590	5170	1230	2970	3840
10	3430	3340	3820	3850	3830	4520	6150	5780	5250	1220	3060	3900
11	3410	3370	3860	3860	3870	4620	6230	5940	5300	1400	3130	3930
12	3420	3340	3880	3890	3900	4620	6050	5930	5350	1510	3140	3900
13	3410	3340	3880	3890	3910	4660	6190	5740	5460	1630	3230	3890
14	3400	3340	3880	3860	3940	4720	6150	5740	5400	1630	3250	3890
15	3400	3310	3890	3860	3960	4790	6150	5640	5460	1790	3300	3920
16	3400	3340	3910	3810	4030	4860	6230	5590	5170	2060	3430	3920
17	3400	3340	3940	3860	4030	4930	6230	5530	5190	2600	3410	3960
18	3400	3340	3920	3850	4070	5020	6150	5590	5740	2390	3410	4020
19	3400	3310	3920	3850	4100	5100	6270	5740	2660	2080	3450	4040
20	3400	3340	3890	3830	4160	5200	6230	5680	2670	2060	3430	4060
21	3390	3450	3910	3850	4170	5250	6190	5280	2930	2100	3550	4040
22	3390	3520	3910	3850	4210	5340	5880	5230	1770	2390	3540	4040
23	3390	3560	3900	3850	4230	5390	6340	4880	401	734	3650	4090
24	3320	3550	3920	3860	4130	5360	6620	4460	608	1490	3700	4090
25	3290	3570	3900	3850	4140	5450	6620	4460	507	1980	3650	4090
26	3310	3570	3900	3850	4150	5540	6540	4370	605	1900	3700	4040
27	3310	3590	3900	3850	4210	5630	6580	4350	682	2090	3720	4060
28	3310	3660	3900	3850	4290	5750	6710	4350	723	2170	3710	4040
29	3300	---	3920	3830	4350	5880	6670	4430	787	2240	3700	3990
30	3300	---	3920	3820	4220	5950	6460	4540	823	2280	3720	3960
31	3300	---	3930	---	4230	---	6580	4640	---	2410	---	3980
MONTH	3390	3400	3870	3870	3990	4930	6270	5450	3480	1720	3230	3950
YEAR	MAX	6800	MIN	401	MEAN	3970						

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	7.5	10.5	14.0	20.0	21.0	22.5	23.5	28.0	27.5	19.5	17.0	15.0
2	7.0	9.5	14.0	14.5	21.0	25.0	25.0	25.5	23.0	20.0	18.0	15.0
3	4.5	11.5	14.5	13.0	19.0	23.0	29.0	26.0	18.5	20.0	17.5	16.0
4	5.0	10.0	14.0	16.5	23.5	23.0	24.5	25.0	20.0	20.5	17.5	15.5
5	5.0	10.5	14.0	15.5	21.0	24.0	26.0	24.5	22.0	22.0	17.5	15.0
6	7.0	9.0	13.5	15.5	23.0	26.0	24.5	26.5	20.0	20.0	18.0	15.0
7	7.5	9.5	15.0	16.0	22.5	24.5	26.0	25.0	23.0	19.0	17.0	16.0
8	8.0	8.5	13.0	18.0	23.5	20.5	28.0	28.5	23.5	19.0	14.5	14.5
9	7.5	8.5	20.0	16.0	20.0	20.5	28.0	30.0	22.5	21.0	14.0	13.5
10	9.5	9.0	14.0	18.0	19.5	23.0	25.0	26.0	21.0	20.0	15.0	14.0
11	8.0	10.0	14.0	14.0	23.0	29.5	24.5	31.0	21.0	22.0	15.0	13.5
12	8.5	10.5	14.5	14.5	24.0	24.0	26.0	29.0	23.0	20.5	15.5	14.0
13	7.5	12.5	18.0	15.5	22.5	25.0	28.0	31.0	23.5	20.5	17.0	14.0
14	8.5	12.5	15.0	15.0	20.0	24.5	26.0	28.0	19.0	19.0	15.5	14.0
15	8.5	13.0	17.0	18.5	24.0	25.0	29.0	32.0	19.0	18.5	15.0	14.0
16	12.0	13.5	14.5	17.5	21.0	25.0	25.0	30.5	20.0	18.5	16.0	13.5
17	10.0	13.0	15.5	16.0	20.0	25.0	26.0	28.0	20.0	20.0	16.5	14.0
18	10.0	13.0	16.0	19.0	24.0	27.5	25.0	28.0	20.0	21.5	15.0	13.5
19	9.5	12.5	18.5	19.0	24.5	26.0	25.0	32.0	21.5	24.0	18.0	13.0
20	10.5	12.5	16.0	20.0	22.0	27.0	29.5	30.0	22.0	22.0	17.0	13.0
21	11.5	11.5	14.0	18.5	20.0	25.0	27.0	28.0	20.0	22.0	17.5	13.0
22	12.0	11.0	15.0	18.5	24.0	25.5	27.0	24.0	18.0	22.0	17.5	12.5
23	11.5	12.5	15.0	18.0	22.5	27.0	27.0	23.0	13.0	15.0	18.0	13.0
24	9.5	13.0	14.0	19.0	23.0	26.0	26.0	23.0	13.0	18.0	17.0	12.0
25	9.0	14.0	13.5	20.0	24.0	25.0	27.0	28.5	13.5	18.0	16.0	11.0
26	10.0	13.0	15.0	21.0	26.0	24.0	27.5	24.0	15.0	18.5	17.0	10.0
27	9.5	11.0	15.0	19.0	23.5	23.5	32.0	24.0	16.0	18.0	17.5	13.0
28	10.0	12.5	15.5	23.0	25.0	23.0	27.5	24.0	19.0	18.0	18.0	14.0
29	9.0	---	16.0	22.0	23.0	23.0	30.0	26.0	19.0	18.0	14.0	14.5
30	9.5	---	18.0	19.5	24.5	24.5	28.0	29.5	19.0	17.5	16.5	14.0
31	9.0	---	16.0	---	23.0	---	28.0	26.0	---	17.0	---	13.0
MONTH	9.0	11.5	15.0	17.5	22.5	24.5	27.0	27.0	20.0	19.5	16.5	13.5
YEAR	MAX	32.0	MIN	4.5	MEAN	18.5						

08405200 PECOS RIVER BELOW DARK CANYON, AT CARLSBAD, N. MEX.

LOCATION.--Lat 32°24'37", long 104°12'58", in NE¼SW¼NW¼ sec.8, T.22 S., R.27 E., Eddy County, at gaging station, 700 ft (210 m) downstream from mouth of Dark Canyon, 0.3 mi (0.5 km) downstream from lower Tansil Dam and Bataan recreational area, and 0.8 mi (1.3 km) downstream from bridge on U.S. Highway 62-180 in Carlsbad, and at mile 459.0 (738.5 km).

DRAINAGE AREA.--18,550 mi² (48,040 km²), approximately (contributing area).

PERIOD OF RECORD.--Chemical analyses: February 1972 to current year.

REMARKS.--Samples collected at this station for comparison with those collected at 08405000 Pecos River at Carlsbad, N. Mex.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS) (00061)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)
JAN.					
03...	1040	13	3470	7.8	5.0
FEB.					
01...	1425	18	3320	7.9	12.0
MAR.					
01...	1400	25	3710	7.8	16.0
APR.					
01...	1545	37	396	7.8	19.5
MAY					
01...	0900	7.7	3650	--	18.0
JUNE					
03...	1000	.39	4250	--	24.0
JULY					
04...	1355	--	4420	--	27.5
OCT.					
23...	1430	9370	846	--	17.0
24...	1540	2040	1500	--	--
29...	1400	337	2320	--	18.0

08406500 PECOS RIVER NEAR MALAGA, N. MEX.
(Surveillance network station)

LOCATION.--Lat 32°12'26", long 104°01'22", in SW 1/4 sec. 19, T.24 S., R.29 E., Eddy County, 2.5 mi (4.0 km) upstream from gaging station near Malaga, which is 3.1 mi (5.0 km) southeast of Malaga, 4.3 mi (6.9 km) downstream from Black River, and at mile 432.0 (695.1 km).

DRAINAGE AREA.--19,190 mi² (49,700 km²), approximately (contributing area).

PERIOD OF RECORD.--Chemical analyses: July 1937 to current year.

Water temperatures: February 1959 to current year.

Sediment records: July 1969 to August 1972.

EXTREMES:

Current year:

Dissolved solids: Maximum, 6,860 mg/l June 20; minimum, 414 mg/l Sept. 23-27, Oct. 23, 24.

Hardness: Maximum, 2,400 mg/l on many days during May, June, and July; minimum, 240 mg/l Oct. 23-24.

Specific conductance: Maximum daily, 9,630 micromhos June 27; minimum daily, 605 micromhos Sept. 24.

Water temperatures: Maximum, 32.0°C July 26; minimum, 5.0°C Jan. 3.

Period of record:

Dissolved solids: Maximum, 18,700 mg/l June 7, 1966; minimum, 344 mg/l Oct. 21, 1969.

Hardness: Maximum, 3,110 mg/l June 7, 1966; minimum, 235 mg/l Oct. 21, 1969.

Specific conductance: Maximum daily, 28,100 micromhos June 7, 1966; minimum daily, 450 micromhos Sept. 21, 1941.

Water temperatures: Maximum, 34.0°C June 25, 1964; minimum, 3.0°C Jan. 13, 1963.

REMARKS.--No appreciable inflow between gaging station and sampling point except during periods of heavy local rains.

CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- CHARGE (CF8) (00060)	DIS- SOLVED SILICA (SID2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NESIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED POT- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLOR- IDE (CL) (MG/L) (00940)	DIS- SOLVED FLUOR- IDE (F) (MG/L) (00950)
JAN.												
01-31	41	15	--	550	190	710	21	211	0	1800	1400	1.1
FEB.												
01-28	32	4.0	--	510	200	880	21	145	0	1800	1500	1.0
MAR.												
01-13	25	--	--	--	--	--	--	--	--	--	--	--
14-27	19	19	--	570	200	1200	39	167	0	1900	1900	1.0
28-31	23	16	--	550	170	940	28	175	0	1800	1500	.8
APR.												
01-19	19	16	--	510	210	1200	18	174	0	1900	1900	1.1
20-30	15	17	--	570	210	1200	17	180	0	1900	2100	1.1
MAY												
01-31	16	21	--	600	210	1200	39	174	0	1900	2000	1.0
JUNE												
01-30	12	23	--	610	190	1300	41	177	0	2000	2100	1.1
JULY												
01-07	13	24	--	610	190	1200	34	164	0	1900	1900	1.1
08-10	22	19	--	490	140	770	24	148	0	1500	1300	.8
11-31	12	24	--	600	190	1100	35	168	0	2000	1800	1.1
AUG.												
01-06	13	27	--	580	160	1100	38	178	0	1800	1800	1.0
07-12	16	24	--	530	140	780	26	169	0	1600	1200	.9
13-20	10	28	--	540	200	1200	40	169	0	1900	1800	1.0
21-31	49	19	--	410	110	520	15	138	0	1200	850	.7
SEP.												
01-22	44	23	--	550	170	1000	38	174	0	1700	1700	.9
23-27	7610	11	--	87	14	30	4.0	136	0	150	46	.2
28-30	469	12	--	140	40	200	7.2	137	0	360	300	.3
OCT.												
01-06	206	16	--	270	100	540	15	165	0	840	850	.5
07-08	253	14	--	200	62	240	7.1	153	0	570	390	.4
09-22	86	12	--	300	100	470	11	148	0	960	790	.6
23-24	5520	7.9	--	72	15	41	3.2	125	0	140	71	.2
25-31	1110	9.6	20	170	46	210	5.6	132	0	460	340	.3
NOV.												
01-12	320	14	--	290	100	360	8.4	167	0	860	620	.1
13-30	163	16	--	390	130	510	11	173	0	1200	830	.7
DEC.												
01-31	157	17	--	440	130	510	11	202	0	1400	850	.7
CALENDAR YEAR												
WTD. AVG.	--	12	--	179	49	202	7.1	145	0	484	336	.3
TIME WTD.												
AVG.	217	18	--	491	164	863	24	172	0	1600	1440	.9
TOT. LOAD (TONS)	--	2500	--	38100	10500	43100	1520	30800	0	103000	71600	70
WATER YEAR												
WTD. AVG.	--	12	--	182	51	216	8.1	144	0	491	364	.4
TIME WTD.												
AVG.	138	18	--	537	184	960	26	171	0	1760	1610	1.0
TOT. LOAD (TONS)	--	1660	--	24600	6850	29200	1090	19400	0	66300	49100	48

08406500 PECOS RIVER NEAR MALAGA, N. MEX.--Continued

CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- SOLVED NITRITE PLUS NITRATE (MG/L) (000631)	DIS- SOLVED ORTHO- PHOS- PHORUS (MG/L) (000671)	DIS- SOLVED BORON (UG/L) (01020)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	HARD- NESS (CA, MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICHO- MHOS) (00095)	PH (UNITS) (00400)
JAN.												
01-31	2.9	--	--	--	4800	6.53	531	2200	2000	6.7	7130	7.6
FEB.												
01-28	1.2	--	--	--	4990	6.79	431	2100	2000	8.4	7370	7.8
MAR.												
01-13	--	--	--	--	--	--	--	--	--	--	--	--
14-27	1.9	--	--	--	5920	8.05	304	2200	2100	11	8610	7.5
28-31	2.0	--	--	--	5100	6.94	317	2100	1900	9.0	7460	7.8
APR.												
01-19	2.6	--	--	--	5840	7.94	300	2100	2000	11	8260	7.0
20-30	1.4	--	--	--	6110	8.31	247	2300	2100	11	9200	7.4
MAY												
01-31	1.6	--	--	--	6060	8.24	262	2400	2200	11	8720	7.5
JUNE												
01-30	1.7	--	--	--	6360	8.65	206	2300	2200	12	9450	7.4
JULY												
01-07	1.7	--	--	--	5950	8.09	209	2300	2200	11	8930	7.5
08-10	1.4	--	--	--	4320	5.88	257	1800	1700	7.9	6340	7.3
11-31	1.5	--	--	--	5840	7.94	189	2300	2200	10	8640	7.4
AUG.												
01-06	1.7	--	--	--	5600	7.62	197	2100	2000	10	8670	7.3
07-12	1.2	--	--	--	4390	5.97	190	1900	1800	7.8	6670	7.5
13-20	1.5	--	--	--	5800	7.89	157	2200	2100	11	8750	7.5
21-31	1.2	--	--	--	3200	4.35	423	1500	1400	5.9	4860	7.5
SEP.												
01-22	1.0	--	--	--	5280	7.18	627	2100	2000	9.6	7060	7.5
23-27	1.1	--	--	--	414	.56	8510	280	170	.8	694	7.7
28-30	1.4	--	--	--	1130	1.54	1430	510	400	3.8	1950	7.9
OCT.												
01-06	2.2	--	--	--	2720	3.70	1510	1100	970	7.1	4050	7.7
07-08	1.5	--	--	--	1570	2.14	1070	750	620	3.8	2450	7.7
09-22	1.7	--	--	--	2720	3.70	632	1200	1100	6.0	3957	7.5
23-24	.5	--	--	--	414	.56	6170	240	140	1.1	663	7.8
25-31	.75	.05	150	1320	1310	1.78	3930	610	500	3.7	2020	7.6
NOV.												
01-12	1.5	--	--	--	2340	3.18	2020	1100	960	4.6	3460	7.5
13-30	1.8	--	--	--	3180	4.32	1400	1500	1400	5.7	4720	7.5
DEC.												
01-31	1.9	--	--	--	3470	4.72	1470	1600	1400	5.5	4990	7.6
CALENDAR YEAR												
WTD. AVG.	1.2	--	--	--	1350	1.83	--	649	532	2.7	2030	7.7
TIME WTD.												
AVG.	1.6	--	--	--	4690	6.37	--	1910	1770	8.4	6860	7.5
TOT. LOAD (TONS)	248	--	--	--	287000	--	--	--	--	--	--	--
WATER YEAR												
WTD. AVG.	1.3	--	--	--	1400	1.90	--	670	555	2.5	2090	7.7
TIME WTD.												
AVG.	1.7	--	--	--	5190	7.06	--	2110	1980	9.0	7490	7.5
TOT. LOAD (TONS)	170	--	--	--	189000	--	--	--	--	--	--	--

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (CO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLU- RIDE (CL) (MG/L) (00940)
JAN.												
17...	0900	35	12	20	550	200	890	21	219	0	1900	1500
FEB.												
13...	0930	25	13	10	570	200	1000	30	173	0	2000	1800
MAR.												
13...	0930	21	14	10	530	200	1000	38	135	0	1800	1700
APR.												
18...	0815	16	14	10	540	190	1200	36	165	0	1800	1900
MAY												
15...	1000	14	16	10	590	210	1300	38	178	0	1900	2100
JUNE												
20...	0800	11	19	10	600	210	1400	19	178	0	2100	2100
JULY												
18...	0900	13	21	50	600	210	1100	33	176	0	1900	1800

RIO GRANDE BASIN

08406500 PECOS RIVER NEAR MALAGA, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED URTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)
JAN. 17...	1.0	1.8	.08	1.9	1.9	.22	1.3	3.4	.25	.09	5110
FEB. 13...	1.1	1.8	.03	1.8	1.8	.09	1.1	3.0	.09	.03	5650
MAR. 13...	1.0	.88	.04	.93	.92	.36	1.8	3.1	.14	.09	5580
APR. 18...	1.0	1.1	.03	1.1	1.1	.27	.63	2.0	.04	.03	6020
MAY 15...	1.3	1.1	.06	1.3	1.2	.04	.76	2.1	.07	.03	6620
JUNE 20...	1.2	1.1	.04	1.1	1.1	.14	1.3	2.5	.05	.04	6860
JULY 18...	1.0	.93	.05	1.0	.98	.00	1.2	2.2	.05	.04	6120

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED OXYGEN (MG/L) (00300)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN. 17...	5190	2200	2000	8.3	7280	8.5	5.0	8.0	11.0	7.9	450
FEB. 13...	5710	2200	2100	9.2	7940	8.3	14.0	10.5	11.4	7.6	500
MAR. 13...	5350	2100	2000	9.4	7890	7.2	15.0	15.0	12.3	9.1	430
APR. 18...	5770	2100	2000	11	8490	7.9	17.5	17.5	8.2	11	570
MAY 15...	6250	2300	2200	12	9330	7.8	32.0	21.0	7.6	5.3	630
JUNE 20...	6540	2400	2300	13	9400	7.8	26.5	23.0	6.6	8.6	640
JULY 18...	5760	2400	2200	9.8	8310	7.4	26.0	24.0	7.9	8.5	570

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	FECAL COLI- FORM (COL. PER 100 ML) (31616)
JAN. 17...	0900	1
FEB. 13...	0930	4
MAR. 13...	0930	1
APR. 18...	0815	35
MAY 15...	1000	0
JUNE 20...	0800	10
JULY 18...	0900	30

RIO GRANDE BASIN

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08406500 PECOS RIVER NEAR MALAGA, N. MEX.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	6820	7040	6930	7850	8510	9360	9200	8990	6430	3200	3050	4790
2	6910	7240	7070	7610	8260	9120	9290	9070	6790	3650	3070	4790
3	6960	7400	7010	7830	8780	9280	9120	8990	7060	3990	3030	4790
4	6960	7520	7630	7830	9150	9450	8890	7040	---	4300	3140	4880
5	6960	7490	7690	7160	8920	9120	8600	7480	---	4700	3510	4880
6	6910	7510	7460	7830	8710	9280	8000	8840	7940	4660	3680	4950
7	6960	7480	7410	8210	8310	9450	8060	5460	7780	2220	3810	4900
8	6910	7620	7520	8210	8060	9450	5650	6480	7830	2690	3420	4860
9	6870	7480	7630	8630	8310	9360	6300	6560	8240	3360	3530	4840
10	6910	7510	7300	8860	8120	9360	6900	6690	8240	4040	3680	4810
11	6870	7690	7480	8860	8000	9540	7430	7090	8230	4440	3840	4810
12	6870	7720	7520	8710	8060	9360	7880	7380	8370	4570	3980	4860
13	6910	7840	7740	8860	8640	8660	8390	8290	8310	4700	4120	4860
14	6910	7770	8050	8210	9000	8580	8600	8430	8120	4590	4190	4860
15	6960	7450	7920	7540	8850	8730	7880	8430	7880	4070	4260	4860
16	6910	7140	8290	8560	8780	8880	7820	8360	7940	4070	4420	4860
17	7010	7210	8230	8280	9150	8880	8000	8360	7830	4300	4340	4880
18	7100	7350	8240	8560	8500	9200	8390	8230	7940	3550	4400	4860
19	7010	7010	8510	8560	8240	9200	8520	8560	7590	3490	4470	4900
20	6960	6880	8440	9100	8780	9360	8670	8770	7480	3760	4490	4930
21	7010	6810	8580	8940	8120	9540	8190	4820	7640	3920	4590	4810
22	7050	6920	8880	9100	8060	9360	8190	4020	7540	4200	4610	4860
23	7010	7030	8730	9270	8640	9280	8390	4820	743	638	4710	4840
24	6960	7170	8880	9180	9230	9200	8600	4120	605	653	4750	4860
25	7010	6630	8960	9350	8710	9280	8670	5850	608	1470	4770	4900
26	6960	6660	8800	9100	8640	9450	8970	6520	637	2070	4730	4790
27	6870	6700	8510	9100	8920	9630	8740	4500	713	2000	4800	4750
28	6820	6760	7740	9100	8850	9540	8810	3920	1380	2540	4750	4770
29	6870	---	7150	9020	8920	9450	8890	3570	2320	2940	4800	4840
30	6820	---	7050	9100	8640	9450	9120	4780	2700	2910	4840	4880
31	6820	---	7010	---	8920	---	8670	5630	---	2970	---	4840
MONTH	6930	7250	7880	8550	8610	9260	8280	6780	5890	3380	4130	4850
YEAR	MAX	9630	MIN	605	MEAN	6820						

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	6.5	13.5	16.5	16.0	19.0	26.5	28.0	28.5	26.0	18.5	17.0	9.0
2	6.5	11.0	17.0	19.0	22.0	25.5	26.5	29.0	23.5	21.0	17.5	9.5
3	5.0	13.5	15.0	15.0	21.0	27.5	30.0	26.0	20.0	21.0	17.0	8.0
4	6.5	9.0	17.0	14.0	25.0	28.0	27.0	23.5	---	22.0	16.5	10.5
5	5.5	12.0	18.0	14.0	20.0	25.0	27.0	24.0	---	23.0	16.5	10.5
6	6.0	9.0	18.0	15.0	24.0	27.5	24.0	23.5	28.0	21.0	15.0	11.0
7	7.0	11.0	17.0	16.0	25.0	27.0	29.5	27.0	27.5	20.0	15.0	10.5
8	8.0	11.0	18.0	16.0	22.0	25.0	28.0	27.0	23.0	22.0	14.0	10.0
9	9.0	11.0	16.5	21.0	24.5	26.0	29.5	31.0	27.0	22.0	15.0	9.0
10	10.0	8.0	15.0	20.0	22.0	26.0	28.0	30.0	27.5	22.5	14.0	9.5
11	11.0	13.0	19.0	15.0	23.0	28.0	30.0	25.0	23.0	21.0	15.0	9.0
12	8.0	9.0	19.5	17.5	24.0	27.0	29.0	23.0	23.0	21.0	15.0	8.5
13	7.0	15.0	20.0	20.0	24.5	25.5	23.5	29.0	20.0	21.0	15.5	---
14	8.0	13.5	20.0	15.0	26.5	28.5	24.5	31.0	22.0	18.0	14.0	8.5
15	8.0	12.0	18.0	16.5	26.5	25.0	23.0	26.0	20.5	18.0	13.0	---
16	10.0	15.0	19.0	20.0	23.0	25.0	27.0	27.0	20.5	17.0	13.0	8.5
17	12.5	11.0	17.5	18.5	24.0	23.0	29.5	27.0	22.0	18.0	12.0	9.0
18	10.0	11.0	17.0	23.0	22.0	29.0	27.0	26.0	22.0	18.5	12.0	8.5
19	11.0	14.0	20.0	23.0	24.0	24.0	28.0	30.0	23.5	21.0	14.0	8.0
20	13.0	12.0	18.5	21.5	26.0	28.0	29.0	26.0	22.0	21.0	13.0	8.0
21	14.0	9.5	16.0	21.0	25.5	30.0	28.0	25.0	19.5	22.0	13.0	9.0
22	13.0	13.0	18.5	16.0	26.0	28.0	30.0	24.0	17.5	23.0	13.5	9.0
23	10.0	13.0	14.0	23.0	26.0	26.0	29.5	23.0	15.0	21.0	15.0	9.0
24	9.5	10.5	15.0	19.0	24.0	25.0	30.0	22.0	13.0	20.0	12.5	8.5
25	10.0	13.0	19.5	23.5	23.0	27.0	31.0	23.0	16.0	22.0	13.0	8.5
26	9.5	12.0	20.0	25.0	23.5	28.0	32.0	28.0	18.0	22.0	13.0	7.0
27	9.5	14.0	21.0	21.5	25.0	28.0	31.0	26.0	18.5	22.5	12.0	7.0
28	10.0	14.0	20.0	23.0	27.5	27.5	27.0	23.0	19.0	21.0	12.0	8.0
29	8.5	---	22.0	21.5	28.0	23.5	27.0	28.0	20.0	21.0	10.0	9.0
30	11.0	---	22.0	19.0	25.0	23.0	29.0	28.5	18.0	18.0	9.5	10.0
31	9.0	---	18.0	---	23.0	---	25.0	24.0	---	17.0	---	9.0
MONTH	9.0	12.0	18.0	19.0	24.0	26.5	28.0	26.5	21.0	20.5	14.0	8.5
YEAR	MAX	32.0	MIN	5.0	MEAN	19.0						

08407000 PECOS RIVER AT PIERCE CANYON CROSSING, NEAR MALAGA, N. MEX.

LOCATION (revised).--Lat 32°11'19", long 103°58'43", in SW¼SW¼NW¼ sec.27, T.24 S., R.29 E., Eddy County, 0.2 mi (0.3 km) downstream from gaging station, which is 550 ft (168 m) upstream from Pierce Canyon Crossing, and 6 mi (9.7 km) southeast of Malaga.

DRAINAGE AREA.--19,260 mi (49,880 km²), approximately (contributing area).

PERIOD OF RECORD.--Chemical analyses: March 1938 to September 1941, October 1951 to current year.
Water temperatures: October 1952 to current year.

EXTREMES:

Current year:

Dissolved solids: Maximum, 26,400 mg/l May 10-19; minimum, 538 mg/l Oct. 24, 25.
Hardness: Maximum, 3,600 mg/l May 10-19; minimum, 290 mg/l Oct. 24, 25.
Specific conductance: Maximum daily, 44,300 micromhos April 24; minimum daily, 582 micromhos Sept. 25.
Water temperatures: Maximum, 33.0°C July 27; minimum, 4.0°C Jan. 3, 5, 6.

Period of record:

Dissolved solids: Maximum, 40,900 mg/l Aug. 1-7, 1966; minimum, 280 mg/l Sept. 21, 1941.
Hardness: Maximum, 4,850 mg/l Aug. 16, 1969; minimum, 202 mg/l Sept. 21, 1941.
Specific conductance: Maximum daily, 66,000 micromhos Aug. 1, 2, 1966; minimum daily, 433 micromhos Sept. 21, 1941.
Water temperatures: Maximum 35.0°C July 6, 1968; minimum, 2.0°C Jan. 13, 1963, Jan. 6, 1971, Jan. 5, 1972, and Jan. 10, 1973.

REMARKS.--No appreciable inflow between gaging station and sampling point except during periods of heavy local rains.

CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- CHARGE (CFS) (00060)	DIS- SOLVED SILICA (SiO ₂) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO ₃) (MG/L) (00440)	CAR- BONATE (CO ₃) (MG/L) (00445)	DIS- SOLVED SULFATE (SO ₄) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)
JAN.												
01-31	44	13	--	530	240	2100	22	178	0	1900	3400	1.0
FEB.												
01-28	34	5.6	--	540	240	2300	82	139	0	2000	3700	1.1
MAR.												
01-20	24	12	--	550	260	2800	110	144	0	2000	4600	1.0
21-26	18	16	--	560	270	3200	120	150	0	2100	5200	1.0
27-31	23	18	--	590	290	4000	150	175	0	2300	6200	1.1
APR.												
01-30	13	16	--	610	360	6100	230	147	0	2500	9900	1.2
MAY												
01-09	10	15	--	610	370	5800	240	172	0	2700	9100	.9
10-19	9.2	20	--	680	460	8800	360	209	0	--	16000	.9
20-31	18	19	--	650	320	4700	190	178	0	2600	7100	1.0
JUNE												
01-06	13	19	--	660	300	4600	170	162	0	2500	7500	1.0
07-12	12	18	--	680	370	6600	250	169	0	2700	11000	1.0
13-24	9.4	16	--	460	350	6000	230	152	0	2700	9400	1.0
25-30	8.9	16	--	710	400	7400	290	158	0	3000	12000	1.0
JULY												
01-31	13	23	--	630	310	4600	220	139	0	2400	7600	1.0
AUG.												
01-24	23	24	--	600	270	3600	170	151	0	2200	5700	.9
25-31	57	18	--	420	150	1400	58	118	0	1400	2300	.6
SEP.												
01-22	19	20	--	510	220	2800	75	134	0	1600	4700	.8
23-28	6380	9.8	--	100	25	85	3.3	124	0	240	130	.2
29-30	230	12	--	150	50	500	13	143	0	410	790	.3
OCT.												
01-06	190	15	--	270	120	1100	42	175	0	860	1900	.5
07-08	412	12	--	210	81	350	11	162	0	640	580	.4
09-22	110	12	--	300	120	1100	36	154	0	980	1700	.5
23...	6920	14	--	290	110	420	12	184	0	890	700	.5
24-25	3750	7.4	--	86	19	65	3.9	128	0	180	110	.2
26-31	967	9.9	50	180	54	310	9.7	132	0	510	500	.3
NOV.												
01-11	351	14	--	290	100	620	20	166	0	860	1100	.5
12-30	159	15	--	380	140	930	33	168	0	1300	1500	.6
DEC.												
01-31	154	16	--	420	150	930	31	198	0	1400	1500	.7
CALENDAR YEAR												
WTD. AVG.		11	--	201	71	512	18	142	0	610	832	.4
TIME WTD.												
AVG.	219	16	--	508	245	3200	121	158	0	1830	5220	.9
TOT. LOAD (TONS)	--	2430	--	43400	15300	111000	3850	30700	0	132000	180000	78
WATER YEAR												
WTD. AVG.	--	11	--	197	73	642	22	132	0	608	1040	.4
TIME WTD.												
AVG.	135	16	--	558	269	3460	127	158	0	2010	5640	1.0
TOT. LOAD (TONS)	--	1470	--	26300	9680	85600	2870	17600	0	81000	139000	48

RIO GRANDE BASIN

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08407000 PECOS RIVER AT PIERCE CANYON CROSSING, NEAR MALAGA, N. MEX.--Continued
CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (00631)	DIS- SOLVED ORTHO, PHOS- PHORUS (P) (00671)	DIS- SOLVED BORON (B) (01020)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	HARD- NESS (CA, MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)
JAN,												
01-31	1.9	--	--	--	8300	11.3	986	2300	2200	19	12400	7.6
FEB,												
01-28	.59	--	--	--	8940	12.2	821	2300	2200	21	13800	7.7
MAR,												
01-20	1.0	--	--	--	10400	14.1	674	2400	2300	25	16000	7.4
21-26	.91	--	--	--	11500	15.6	559	2500	2400	28	17800	7.5
27-31	1.2	--	1200	--	13600	18.5	845	2700	2500	34	20600	7.4
APR,												
01-30	.58	--	--	--	19800	26.9	695	3000	2900	48	31000	7.1
MAY												
01-09	.86	--	--	--	18900	25.7	510	3000	2900	46	28900	7.4
10-19	.97	--	--	--	26400	35.9	656	3600	3400	64	41100	7.4
20-31	.83	--	--	--	15700	21.4	763	2900	2800	38	24700	7.5
JUNE												
01-06	.39	--	--	--	15800	21.5	555	2900	2800	37	24200	7.4
07-12	.41	--	--	--	21700	29.5	703	3200	3100	51	31800	7.4
13-24	.33	--	--	--	19200	26.1	487	2600	2500	51	28800	7.3
25-30	.33	--	--	--	23900	32.5	574	3400	3300	55	35500	7.4
JULY												
01-31	.23	--	--	--	15900	21.6	558	2900	2800	38	25100	7.2
AUG,												
01-24	1.8	--	--	--	12600	17.1	782	2600	2500	31	21200	7.3
25-31	1.1	--	--	--	5810	7.90	894	1700	1600	15	9440	7.4
SEP,												
01-22	.82	--	--	--	10000	13.6	513	2200	2100	26	14500	7.1
23-28	1.2	--	--	--	660	.90	11400	350	250	2.0	1120	7.6
29-30	1.4	--	--	--	2000	2.72	1240	580	460	9.0	3560	7.7
OCT,												
01-06	2.3	--	--	--	4400	5.98	2260	1200	1100	14	7750	7.7
07-08	1.8	--	--	--	1970	2.68	2190	860	730	5.2	3170	7.9
09-22	1.6	--	--	--	4330	5.89	1290	1200	1100	14	7140	7.6
23...	.65	--	--	--	2530	3.44	47300	1200	1000	5.3	3790	8.0
24-25	.73	--	--	--	538	.73	5450	290	190	1.7	923	7.9
26-31	.87	.05	160	1760	1640	2.23	4280	670	560	5.2	2740	7.9
NOV,												
01-11	1.5	--	--	--	3090	4.20	2930	1100	960	8.0	4830	7.5
12-30	1.7	--	--	--	4390	5.97	1880	1500	1400	10	6860	7.4
DEC,												
01-31	1.8	--	--	--	4550	6.19	1890	1700	1500	9.9	7160	7.9
CALENDAR YEAR												
WTD. AVG.	1.2	--	--	--	2330	3.17	--	793	675	6.0	3700	7.7
TIME WTD.												
AVG.	1.1	--	--	--	11200	15.3	--	2270	2160	27	17400	7.5
TOT. LOAD (TONS)	254	--	--	--	503000	--	--	--	--	--	--	--
WATER YEAR												
WTD. AVG.	1.2	--	--	--	2670	3.63	--	792	682	6.6	4150	7.6
TIME WTD.												
AVG.	1.1	--	--	--	12200	16.5	--	2510	2380	29	18700	7.4
TOT. LOAD (TONS)	157	--	--	--	355000	--	--	--	--	--	--	--

08407000 PECOS RIVER AT PIERCE CANYON CROSSING, NEAR MALAGA, N. MEX.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	12200	11200	14500	25700	27900	26200	29400	23200	11000	5440	4190	6930
2	10600	11300	15000	21200	28200	24800	29700	23400	13100	6520	4150	6930
3	11100	16400	14400	23400	25500	24400	23200	24200	15000	6820	4100	6840
4	12200	12400	16200	26100	27400	20300	24100	18400	---	7840	4040	6840
5	11200	11700	14800	26400	25900	21600	31300	23600	---	8200	4360	6930
6	11400	13800	14900	26600	33500	25100	23500	22200	14700	9360	5260	6930
7	11900	13200	18400	26000	31400	29500	24700	20700	15500	2930	5750	7170
8	12900	11300	14100	25500	30100	34000	20200	16700	15600	3480	6170	6980
9	18700	11900	15900	32700	31800	37200	22000	15000	18100	4570	4440	6890
10	12200	12300	17100	34200	33400	25900	19200	17600	16000	5590	4840	6860
11	14000	16400	15000	34800	34300	27600	23000	30100	17700	6600	5260	6860
12	13600	13000	17100	37400	36400	33500	33300	26900	17600	7390	5750	6860
13	11500	14400	15400	38800	41200	25600	23700	25800	20200	8270	6020	---
14	11700	12700	17500	38000	39800	24600	20900	22500	22200	8900	6170	7030
15	12800	15900	15100	36700	41200	24000	23400	34400	18300	9550	6360	---
16	12800	14100	16300	32300	34700	24200	18800	26600	15900	8270	6480	6800
17	12100	13700	14900	30100	40200	26200	22500	25700	16400	7450	6560	6840
18	11600	14000	14300	28500	43700	29500	24200	22300	14800	7610	6440	6930
19	12200	13100	16300	27300	43500	29700	22700	34400	15700	6860	6520	6840
20	11700	13500	16100	24700	24500	31600	21000	30900	15200	6000	6600	6750
21	11700	17100	18100	24000	25100	32000	18400	25500	16000	5830	6650	7070
22	12900	15600	17100	24700	25000	32500	31600	23600	13700	6070	6690	6750
23	14900	11600	17400	36900	26000	30000	19200	18600	3610	3700	6650	6710
24	11700	12300	19600	44300	23100	32500	38900	14900	588	795	6870	6840
25	12400	13400	16000	26500	23100	36500	23600	7950	582	1030	7010	6670
26	11000	13800	16400	27700	26900	40400	22000	7610	682	2050	7050	6890
27	12400	10700	20900	30100	28700	40000	30000	9290	743	2230	7010	7070
28	13100	11400	17700	32500	23800	33600	24300	10000	907	2610	6960	6980
29	12600	---	17500	32300	19600	33600	27000	10600	2700	3720	6960	6890
30	12200	---	21700	33300	20900	26200	23000	8750	4630	4510	6780	7030
31	12400	---	23800	---	22200	---	25400	11700	---	4170	---	7070
MONTH	12450	13290	16760	30290	30290	29430	24650	20420	12040	5630	5940	6900
YEAR	MAX	44300	MIN	582	MEAN	17440						

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	6.0	12.0	16.5	17.0	18.0	28.0	24.0	26.0	27.0	19.0	18.0	9.0
2	5.0	9.0	16.0	16.5	23.0	24.5	27.5	25.0	25.0	20.0	16.5	9.0
3	4.0	14.0	14.5	14.0	21.0	29.0	30.0	25.0	20.5	19.5	17.5	8.0
4	5.0	8.5	17.0	15.0	26.0	29.0	28.0	23.0	22.5	20.0	16.5	10.0
5	4.0	11.5	17.0	14.0	20.5	25.0	28.0	25.0	22.0	20.5	15.0	10.5
6	4.0	8.5	17.5	20.0	25.0	26.0	25.0	25.0	29.0	21.5	14.5	10.5
7	5.5	8.0	18.0	15.5	25.0	28.0	29.5	28.0	24.0	19.5	14.0	10.5
8	7.0	6.0	14.0	17.0	21.0	23.0	27.0	28.5	24.0	20.5	14.0	10.0
9	10.0	---	17.0	21.0	24.0	23.0	29.5	31.0	27.0	22.0	15.0	9.5
10	10.0	---	15.0	18.0	23.0	19.0	28.0	30.0	25.0	22.0	14.0	7.0
11	10.0	---	18.0	15.0	24.0	28.5	29.5	25.0	24.0	21.0	14.5	9.0
12	7.0	---	18.0	17.0	25.0	27.5	28.0	24.5	24.5	20.0	14.5	9.0
13	5.5	---	20.0	19.5	25.0	27.5	24.0	27.0	22.0	19.5	14.0	---
14	6.5	---	19.0	15.0	26.0	25.0	24.5	32.0	21.0	19.0	14.0	9.0
15	7.0	---	20.0	16.0	26.0	25.0	29.0	32.0	19.0	17.5	13.0	---
16	9.0	---	19.0	21.0	24.0	24.5	26.5	27.5	20.0	17.5	13.0	9.0
17	7.0	11.0	17.0	19.5	26.0	23.5	27.0	27.0	22.0	18.0	12.0	8.5
18	10.5	11.0	17.0	22.0	23.5	24.5	24.0	26.0	22.0	18.0	12.5	8.5
19	11.0	13.0	20.0	23.5	26.0	25.0	24.0	28.0	21.5	18.0	13.5	8.0
20	9.0	10.5	20.0	22.0	24.0	27.0	25.0	28.0	22.0	18.0	13.5	8.5
21	14.0	9.0	14.0	19.5	26.0	25.0	25.0	25.0	20.0	19.0	13.0	8.0
22	13.0	12.0	14.5	16.0	24.5	28.5	31.0	25.0	17.5	19.0	14.0	8.0
23	10.0	10.0	18.0	22.5	26.0	25.0	31.5	23.5	18.0	18.5	15.0	9.0
24	9.0	9.0	11.0	24.0	22.0	26.0	32.0	23.0	13.0	16.0	13.0	8.0
25	9.0	13.0	10.5	20.0	24.0	30.0	26.0	22.5	15.0	17.0	12.5	8.0
26	8.5	11.5	14.0	20.0	25.0	31.0	28.0	23.5	15.5	18.0	11.5	7.0
27	8.0	12.0	21.5	22.0	25.0	30.0	33.0	24.0	17.0	18.0	11.5	6.5
28	8.0	12.0	20.5	23.0	26.0	25.0	27.0	25.0	19.0	18.0	12.0	7.0
29	8.0	---	19.0	23.0	28.0	24.5	27.0	26.0	17.0	17.0	10.0	9.0
30	10.0	---	22.0	21.0	25.0	23.0	29.5	28.0	18.5	17.0	11.0	10.0
31	8.0	---	18.0	---	23.0	---	24.0	26.0	---	17.0	---	10.0
MONTH	8.0	---	17.0	19.0	24.0	26.0	27.5	26.5	21.0	19.0	14.0	9.0
YEAR	MAX	33.0	MIN	4.0	MEAN	18.5						

08407500 PECOS RIVER AT RED BLUFF, N. MEX.
(National stream-quality accounting network,
and surveillance network station)

LOCATION (revised).--Lat 32°04'30", long 104°02'21", in SW¼NW¼NE¼ sec.1, T.26 S., R.28 E., Eddy County, 2 mi (3.2 km) downstream from gaging station which is at Red Bluff, 0.2 mi (0.3 km) downstream from Red Bluff Draw, 1.6 mi (2.6 km) northwest of the El Paso Natural Gas (Pecos River) compressor station, 5.2 mi (8.4 km) north of the New Mexico-Texas state line, 5.5 mi (8.8 km) upstream from Delaware River, and at mile 411.3 (661.8 km).

DRAINAGE AREA.--19,540 mi² (50,600 km²), approximately (contributing area).

PERIOD OF RECORD.--Chemical analyses: July 1937 to current year.

Water temperatures: October 1952 to current year.

Sediment records: July 1969 to current year.

EXTREMES:

Current year:

Specific conductance: Maximum daily, 45,000 micromhos May 25; minimum daily, 626 micromhos Sept. 25.

Water temperatures: Maximum, 32.5°C July 26-27; minimum, 3.5°C Jan. 5.

Period of record:

Specific conductance: Maximum daily, 51,400 micromhos June 20, 1972; minimum daily, 268 micromhos Sept. 19, 1946.

Water temperatures: Maximum, 36.0°C July 31, 1966, July 13, 1970; minimum, 1.0°C Jan. 10, 11, 1962, Jan. 13, 1963.

REMARKS.--No appreciable inflow between gaging station and sampling point except during periods of heavy local rains.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	DIS- SOLVED BICAR- BONATE (MG/L) (00440)
JAN, 17...	1200	44	9.4	20	--	530	230	1900	67	120
FEB, 13...	1130	27	9.4	10	--	560	230	2200	79	151
MAR, 13...	1145	20	8.3	80	40	550	260	3300	120	127
APR, 18...	1030	9.5	8.8	20	--	660	410	7700	290	76
MAY, 15...	1230	5.0	1.4	20	--	670	390	7000	280	139
JUNE, 20...	1115	5.0	8.1	80	30	760	450	8600	26	99
JULY, 18...	1130	14	14	40	--	660	370	5000	220	87
AUG, 14...	1430	8.6	13	240	--	680	320	4200	160	79
OCT, 11...	0925	96	9.1	10	--	310	140	2100	55	166
NOV, 14...	1650	178	9.9	10	--	360	130	1400	26	171
DEC, 12...	1141	160	8.6	20	60	440	170	1200	34	179

DATE	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)
JAN, 17...	0	1900	3200	.3	.42	.05	.54	.47	.10
FEB, 13...	0	2100	3700	1.0	.69	.03	.72	.72	.21
MAR, 13...	0	2100	5800	1.2	.43	.06	.49	.49	.36
APR, 18...	0	3200	12000	1.3	.06	.00	.06	.06	.68
MAY, 15...	0	3000	11000	1.4	.03	.01	.11	.04	.12
JUNE, 20...	0	3400	13000	1.5	--	.01	.03	--	.16
JULY, 18...	0	2700	8000	.9	.01	.00	.02	.01	.56
AUG, 14...	0	2600	6600	.9	.02	.00	.03	.02	.11
OCT, 11...	0	1100	3400	.5	.57	.05	.62	.62	.12
NOV, 14...	0	1200	2300	.6	.92	.03	1.0	.95	.03
DEC, 12...	0	1400	2000	.7	1.1	.04	1.1	1.1	.06

RIO GRANDE BASIN

08407500 PECOS RIVER AT RED BLUFF, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)
JAN, 17...	1.4	2.0	.08	.03	8140	7900	2300	2200	17
FEB, 13...	.89	1.8	.08	.04	8980	8960	2300	2200	20
MAR, 13...	.84	1.7	.11	.05	12100	12200	2400	2300	29
APR, 18...	1.6	2.5	.10	.10	24800	24300	3300	3300	58
MAY, 15...	.85	1.1	.07	.07	23100	22400	3300	3200	53
JUNE, 20...	1.1	1.3	.10	.10	27500	26300	3800	3700	61
JULY, 18...	.84	1.4	.08	.08	16400	17000	3200	3100	39
AUG, 14...	1.1	1.2	.07	.07	15000	14600	3000	3000	33
OCT, 11...	1.5	2.2	.11	.04	7260	7200	1400	1200	25
NOV, 14...	.73	1.8	.06	.01	5840	5520	1400	1300	16
DEC, 12...	1.1	2.3	.09	.01	5720	5350	1800	1700	12

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNIT8) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN, 17...	12100	8.7	20.0	8.5	20	--	--	9.0	690
FEB, 13...	13400	8.2	20.0	9.5	30	10.4	--	5.8	760
MAR, 13...	18200	8.2	21.5	17.5	20	11.3	--	7.2	950
APR, 18...	36200	6.9	--	19.0	10	--	--	25	2000
MAY, 15...	34500	8.3	38.0	24.0	2	8.6	--	6.9	1800
JUNE, 20...	36000	8.1	36.0	26.5	0	7.4	--	9.2	2300
JULY, 18...	25600	8.1	32.0	26.5	2	7.8	--	11	1500
AUG, 14...	21500	8.6	38.0	28.5	5	14.8	180	18	1300
OCT, 11...	11900	8.4	--	20.5	20	10.5	140	11	490
NOV, 14...	9070	8.3	8.0	14.0	10	14.4	90	10	420
DEC, 12...	8480	8.1	19.5	6.5	9	14.0	27	14	320

TRACE ELEMENT ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L) (01002)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	DIS- SOLVED COBALT (CO) (UG/L) (01035)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)
MAR, 13...	1145	3	3	950	0	30	1	1	750
JUNE, 20...	1115	4	4	2300	1	30	0	0	160
DEC, 12...	1141	1	0	320	1	<10	2	12	120

DATE	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (MG) (UG/L) (71900)	DIS- SOLVED MERCURY (MG) (UG/L) (71890)	TOTAL SELE- NIUM (SE) (UG/L) (01147)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
MAR, 13...	80	<100	0	40	.0	.0	4	2	30
JUNE, 20...	80	100	2	30	.0	.0	1	0	30
DEC, 12...	20	100	1	60	<.1	<.1	2	2	40

08407500 PECOS RIVER AT RED BLUFF, N. MEX.--Continued
 BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL PHYTO- PLANK- TON (CELLS PER ML) (60050)	CHLORO- PHYLL A (UG/L) (32230)	CHLORO- PHYLL B (UG/L) (32231)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)
JAN. 17...	1200	--	--	--	0	0
FEB. 13...	1130	--	--	--	0	0
MAR. 13...	1145	--	--	.0	0	0
APR. 18...	1030	--	97	31	10	12
MAY 15...	1230	--	--	--	0	0
JUNE 20...	1115	--	1.8	.9	0	16
JULY 18...	1130	--	--	--	12	1
AUG. 14...	1430	720000	--	--	20	780
SEP. 12...	1618	170000	--	--	--	--
OCT. 11...	0925	74000	--	--	40	56
NOV. 14...	1650	30000	--	--	35	21
DEC. 12...	1141	200000	--	--	0	0

PHYTOPLANKTON

DATE	PHYLUM ..Class ..Order ...Family ...Genus....Species	COMMON NAME	PERCENT OF TOTAL
AUG 14...	CYANOPHYTA	Blue-green algae	
	..Myxophyceae		
	....Lyngbya (Codominant)		36
	....Anacystis		13
	....Agmenellum		2
	CHLOROPHYTA		
	..Chlorophyceae	Green algae	
	....Scenedesmus (Codominant)		41
	....Crucigenia		0
	....Chodatella		0
	....Carteria		0
	CHRYSTOPHYTA		
	..Xanthophyceae	Yellow-green algae	
	....Ophiocytium		0
	..Bacillariophyceae	Diatoms	
	....Cyclotella		7
	....Navicula		0
SEP 12	CYANOPHYTA	Blue-green algae	
	..Myxophyceae		
	....Lyngbya (Dominant)		73
	....Anacystis		9
	....Anacystis		8
	....Incerta		3
	....Agmenellum		
	CHRYSTOPHYTA		
	..Bacillariophyceae	Diatoms	
	....Cyclotella		6
	....Nitzschia		1
	....Synedra		0
OCT 11	EUGLENOPHYTA	Euglenoids	
	..Euglenophyceae		
	....Phacus		0
	CYANOPHYTA		
	..Myxophyceae		
	....Lyngbya (Codominant)		43
	....Agmenellum		9
	....Anacystis		4

RIO GRANDE BASIN

08407500 PECOS RIVER AT RED BLUFF, N. MEX.--Continued
 BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

PHYTOPLANKTON

DATE	PHYLUM .Class ..Order ...Family....Genus.....Species	COMMON NAME	PERCENT OF TOTAL
OCT 11	CHLOROPHYTA .Chlorophyceae....Chlorella (Codominant) ....Scenedesmus....Crucigenia....Pediastrum....Closterium....Actinastrum....Coelastrum....Ankistrodesmus....Oocystis....Tetraedron	Green algae	22 8 3 3 2 1 1 1 1 1 0
	CHRYSOPHYTA .Bacillariophyceae ...Nitzschia ...Achnanthes ...Synedra ...Gyrosigma		1 1 1 0
NOV 14...	CYANOPHYTA .Myxophyceae....Anacystis (Dominant)	Blue-green algae	43
	CHLOROPHYTA .Chlorophyceae....Scenedesmus....Actinastrum....Crucigenia....Quadrigula....Ankistrodesmus....Coelastrum....Sphaerocystis....Tetrastrum....Chodatella....Dictyosphaerium....Treubaria....Kirchneriella	Green algae	10 7 6 5 5 5 4 1 1 1 0 0
	CHRYSOPHYTA .Bacillariophyceae ...Cyclotella ...Nitzschia ...Synedra	Diatoms	7 2 0
	ORGANISMS OF UNCERTAIN POSITION .Cryptophyceae....Cryptomonas		0
DEC 12...	CYANOPHYTA .Myxophyceae....Anacystis	Blue-green algae	4
	CHLOROPHYTA .Chlorophyceae....Sphaerocystis....Closterium....Scenedesmus....Ankistrodesmus....Actinastrum....Tetraedron	Green algae	2 1 1 1 0 0
	CHRYSOPHYTA .Bacillariophyceae....Cyclotella (Dominant) ...Melosira ...Nitzschia ...Amphiprora	Diatoms	88 4 0 0

08407500 PECOS RIVER AT RED BLUFF, N. MEX.--Continued

PESTICIDE ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL ALDRIN (UG/L) (39330)	ALDRIN IN BOTTOM MA= TERIAL (UG/KG) (39333)	TOTAL CHLOR- DANE (UG/L) (39350)	CHLOR- DANE IN BOTTOM MA= TERIAL (UG/KG) (39351)	TOTAL DDD (UG/L) (39360)	DDD IN BOTTOM MA= TERIAL (UG/KG) (39363)	TOTAL DDE (UG/L) (39365)	DDE IN BOTTOM MA= TERIAL (UG/KG) (39368)	TOTAL DDT (UG/L) (39370)	DDT IN BOTTOM MA= TERIAL (UG/KG) (39373)
MAY 15...	1230	.00	.0	.0	0	.00	.0	.00	.3	.00	.0

DATE	TOTAL DI- AZINON (UG/L) (39570)	TOTAL DI- ELDRIN (UG/L) (39380)	DI- ELDRIN IN BOTTOM MA= TERIAL (UG/KG) (39383)	TOTAL ENDRIN (UG/L) (39390)	ENDRIN IN BOTTOM MA= TERIAL (UG/KG) (39393)	TOTAL HEPTA- CHLOR (UG/L) (39410)	HEPTA- CHLOR IN BOTTOM MA= TERIAL (UG/KG) (39413)	TOTAL HEPTA- EPOXIDE (UG/L) (39420)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA= TERIAL (UG/KG) (39423)	TOTAL LINDANE (UG/L) (39340)
MAY 15...	.00	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MA= TERIAL (UG/KG) (39343)	TOTAL MALA- THION (UG/L) (39530)	TOTAL METHYL PARA- THION (UG/L) (39600)	TOTAL PARA- THION (UG/L) (39540)	TOTAL PCB (UG/L) (39516)	PCB IN BOTTOM MA= TERIAL (UG/KG) (39519)	TOX- APHENE IN BOTTOM MA= TERIAL (UG/KG) (39403)	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (39760)
MAY 15...	.0	.00	.00	.00	.0	0	0	.00	.00	.00

SPECIFIC CONDUCTANCE (MICROMHUS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	12700	12600	13200	20300	30200	29400	36500	24500	11200	11100	5750	8750
2	12700	12200	12800	21200	29100	28700	36300	25300	11100	12500	5530	8750
3	14400	11600	13400	20800	30300	31500	36300	26100	11000	13900	5280	8750
4	13100	12600	12900	20500	33300	31700	37100	26800	10900	14900	5150	8610
5	11500	12800	13200	21600	34900	29000	38000	27900	10600	15300	5680	8610
6	11500	13300	14400	24900	34400	29000	39300	27600	10900	16500	7120	8680
7	11600	13900	16000	26200	33800	29000	39200	28400	10900	3370	8390	8540
8	11700	14600	17100	26300	33400	28800	38400	29600	11600	4930	8970	8540
9	11700	14100	17100	25900	33000	28700	35200	29100	12800	6750	8540	8610
10	12000	14300	17200	25800	32700	28900	34000	29100	14100	8900	5450	8470
11	12900	13500	16300	26000	32800	28600	32800	28700	15500	11100	6460	8400
12	14500	13400	16200	25500	32800	29300	31000	25500	16600	12700	8460	8270
13	12800	12300	18200	25500	33100	30400	28500	25400	17800	14000	8460	8200
14	13300	13100	17600	25500	33100	31000	25800	24600	18700	14600	8810	8200
15	13800	13300	18300	26200	33400	30200	24000	24500	18300	13200	8970	8270
16	11800	15100	17800	28300	34000	29700	12800	24000	18200	13800	9120	8200
17	11700	14900	16500	30300	34000	29600	20900	23300	18900	13400	9450	8270
18	12900	15100	17400	31300	33900	30200	21500	22200	19800	12900	8890	8140
19	12400	14400	17900	31400	33900	31200	22100	22000	19300	10900	8890	8200
20	12400	14400	17800	33100	35000	35200	23600	21400	16900	8220	8740	8250
21	12400	15700	17600	35100	38800	35200	26200	21100	13100	7600	8670	8390
22	13700	14400	17100	38100	38800	37000	28100	21700	5070	7970	8740	8320
23	12200	14200	17100	39700	41600	38700	24900	29800	7680	10400	8890	8460
24	11900	14700	16700	39700	44000	39800	23400	23200	696	868	9040	8000
25	13100	17500	16400	38500	45000	40400	23300	15900	626	882	9200	7920
26	13800	14100	17200	35500	41800	40400	24200	7390	686	2000	9200	8050
27	12300	13200	18000	34600	38000	39800	19100	7130	744	2440	9120	8050
28	12000	12900	19500	34000	34400	39500	26500	7130	887	2660	9120	8170
29	12200	---	20600	32700	33100	38900	26900	6350	3000	5120	8740	8110
30	12700	---	22200	31500	32800	37300	26500	9620	9100	6460	8890	7920
31	14100	---	21600	---	31000	---	25000	10300	---	5900	---	7980
MONTH	12640	13860	16950	29200	34850	32900	28630	21790	11220	9200	7990	8330
YEAR	MAX	45000	MIN	626	MEAN	18990						

RIO GRANDE BASIN

08407500 PECOS RIVER AT RED BLUFF, N. MEX.--Continued

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	5.0	10.0	14.5	22.0	24.0	26.0	27.0	29.0	29.0	20.0	17.0	7.5
2	4.5	11.0	15.0	21.0	24.0	27.5	28.0	29.0	26.0	20.0	17.5	8.0
3	5.0	12.0	16.0	17.0	22.0	28.5	29.0	27.0	25.0	20.5	17.5	8.0
4	4.0	12.0	16.5	19.0	25.0	29.5	28.0	26.0	25.5	26.5	16.5	9.0
5	3.5	12.0	16.0	19.0	23.5	28.0	28.5	29.0	26.0	22.5	15.5	9.0
6	4.0	10.0	17.0	21.0	24.5	27.5	26.0	28.0	28.0	22.5	14.0	9.0
7	5.0	10.0	17.0	21.0	25.5	29.0	28.0	28.5	28.0	20.5	14.0	9.0
8	6.0	10.5	18.0	20.0	26.0	27.0	28.0	27.5	27.5	21.5	14.0	9.0
9	7.0	11.0	19.0	19.5	24.5	26.5	28.0	29.5	28.0	21.5	14.5	8.0
10	8.5	10.0	16.0	19.5	28.0	26.0	30.5	30.0	27.0	21.5	14.5	8.0
11	8.5	11.5	18.0	19.5	27.0	27.0	29.5	29.5	28.0	21.5	14.5	8.0
12	5.0	11.5	17.5	19.5	28.0	26.5	29.5	29.0	27.0	21.0	14.5	7.5
13	7.5	12.0	19.0	20.0	25.0	27.5	28.0	29.0	22.5	20.5	14.5	8.0
14	8.5	13.0	19.0	20.0	26.0	28.0	28.0	31.0	22.5	18.5	13.5	8.0
15	8.0	12.5	19.5	19.5	26.0	28.5	28.5	30.5	21.5	17.5	12.5	7.0
16	8.0	14.0	19.5	20.0	25.0	28.0	24.0	31.0	22.5	18.0	12.0	6.5
17	9.0	14.0	19.0	21.5	24.0	28.0	29.0	31.5	22.0	19.5	12.0	7.0
18	8.5	13.0	21.0	22.0	28.0	29.0	29.0	31.0	21.5	21.0	12.5	7.0
19	10.0	11.5	20.0	24.0	26.5	28.0	30.0	29.5	22.0	20.0	13.0	6.5
20	10.0	10.5	19.0	23.5	26.5	29.0	30.0	29.5	22.5	20.0	13.0	7.0
21	9.5	11.0	18.0	23.0	26.0	29.0	31.0	28.5	18.0	19.0	13.0	7.0
22	12.0	12.0	17.0	22.5	26.0	29.0	31.0	25.0	15.0	18.5	14.0	8.0
23	8.5	12.0	17.0	23.0	27.0	29.0	31.0	24.5	17.0	18.0	14.0	9.0
24	8.5	12.0	16.0	23.5	28.5	29.5	31.0	23.0	12.5	17.0	13.0	7.0
25	8.0	12.5	17.5	23.5	28.0	27.5	31.0	24.0	15.0	18.0	11.5	5.0
26	9.0	11.5	18.0	24.5	28.5	26.5	32.5	24.0	17.0	18.0	11.0	5.0
27	8.5	11.5	19.0	25.0	27.5	26.0	32.5	26.5	18.5	18.0	11.0	6.0
28	8.0	13.0	19.0	25.5	28.5	26.5	31.0	26.0	18.5	16.5	10.0	6.5
29	9.0	---	20.5	23.5	28.5	26.0	28.0	26.5	19.0	17.5	9.5	8.5
30	9.0	---	21.0	19.5	27.0	26.5	30.5	28.0	19.5	17.5	8.0	9.0
31	11.0	---	21.5	---	25.0	---	31.5	29.5	---	17.5	---	9.0
MONTH	7.5	11.5	18.0	21.5	26.0	27.5	29.5	28.0	22.5	19.5	13.5	7.5
YEAR	MAX	32.5	MIN	3.5	MEAN	19.5						

INSTANTANEOUS SUSPENDED SEDIMENT, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PEN- DED SEDIM- ENT (MG/L) (80154)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)
JAN,						
17...	1200	8.5	44	17	2.0	--
FEB,						
13...	1130	9.5	27	86	6.3	--
MAR,						
13...	1145	17.5	20	142	7.7	--
JUNE						
20...	1115	26.5	5.0	575	7.8	--
JULY						
18...	1130	26.5	14	6	.23	--
AUG,						
14...	1430	28.5	8.6	12	.28	--
OCT,						
11...	0925	20.5	96	49	1.3	79
NOV,						
14...	1650	14.0	178	80	38	10
DEC,						
12...	1141	6.5	160	47	20	46

TULAROSA VALLEY BASIN

175

08481500 RIO TULAROSA NEAR BENT, N. MEX.

LOCATION.--Lat 33°08'41", long 105°53'50", in SE¼NW¼ sec.32, T.13 S., R.11 E., Otero County (revised), at gaging station 50 ft (15 m) downstream from bridge on U.S. highway 70, 2.6 mi (4.2 km) west of Bent, and 8.5 mi (13.7 km) northeast of Tularosa.

DRAINAGE AREA.--120 mi² (310 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: May 1963 to current year.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLD- RIDE (CL) (MG/L) (00940)
JAN, 02...	1500	10	14	--	190	60	44	1.6	251	0	530	56
FEB, 04...	1455	12	14	--	200	61	44	1.4	241	0	530	59
27...	1525	11	14	--	190	62	43	1.4	231	0	530	63
MAR, 14...	1045	8.3	14	--	210	61	51	1.3	238	0	580	65
APR, 08...	1525	3.0	15	10	260	76	62	1.6	219	0	760	85
30...	0950	8.6	14	--	220	65	45	1.5	238	0	620	64
MAY, 15...	1620	6.1	15	--	240	65	47	1.3	194	0	650	60
JUNE, 06...	1215	8.6	15	--	200	65	42	1.1	216	0	550	62
26...	1525	6.5	--	--	--	--	--	--	--	--	--	--
JULY, 17...	1145	8.6	16	--	290	59	44	2.4	237	0	720	60
AUG, 07...	1650	9.9	16	--	310	61	44	2.7	247	0	820	62
OCT, 09...	1710	9.9	16	--	220	61	43	1.8	230	0	570	58
30...	1625	13	16	20	250	57	47	2.6	274	0	620	65
NOV, 21...	0900	12	15	--	230	64	51	2.0	258	0	580	70
DEC, 11...	1000	11	14	--	220	62	46	1.8	262	0	560	65

DATE	DIS- SOLVED FLUD- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN, 02...	1.5	.45	--	--	1020	720	520	.7	1450	7.9	8.0	--
FEB, 04...	.6	.35	--	--	1030	750	550	.7	1440	7.8	9.5	--
27...	.5	.33	--	--	1020	730	540	.7	1440	7.8	12.5	--
MAR, 14...	.8	.33	--	--	1100	780	580	.8	1500	7.9	10.0	--
APR, 08...	.8	.14	.01	1480	1370	960	780	.9	1820	7.8	20.0	60
30...	.4	.32	--	--	1150	820	620	.7	1560	7.8	12.5	--
MAY, 15...	.5	.22	--	--	1180	870	710	.7	1630	7.8	21.5	--
JUNE, 06...	.5	.31	--	--	1040	770	590	.7	1490	7.9	20.0	--
26...	--	--	--	--	--	--	--	--	1430	--	24.0	--
JULY, 17...	.5	.37	--	--	1310	970	770	.6	1740	7.8	20.0	--
AUG, 07...	.5	.48	--	--	1440	1000	820	.6	1840	7.8	22.0	--
OCT, 09...	.5	.46	--	--	1090	800	610	.7	1470	7.8	18.0	--
30...	.7	1.8	.10	1240	1200	860	640	.7	1610	7.7	11.0	50
NOV, 21...	.5	.54	--	--	1140	840	630	.8	1580	7.7	7.0	--
DEC, 11...	.5	.38	--	--	1100	800	590	.7	1500	7.7	3.0	--

LOCATION.—Lat 37°00'10", long 106°54'25", in NW¼ sec.24, T.32 N., R.1 W., Archuleta County, at gaging station, 290 ft (88 ft) downstream from highway bridge, 0.2 mi (0.3 km) southeast of Edith, 0.5 mi (0.8 km) upstream from Colorado-New Mexico State line, and 1.3 mi (2.1 km) upstream from Coyote Creek.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--Chemical analyses: October 1969 to October 1974 (discontinued).
Sediment records: October 1969 to October 1974 (discontinued).

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

[illegible][illegible]

SAN JUAN RIVER BASIN

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09346000 NAVAJO RIVER AT EDITH, COLO.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	HARD- NESS (CA, MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNIT8) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	TOTAL ORGANIC CARBON (C) (00680)	DIS- SOLVED BORON (8) (01020)
MAR. 04...	100	39	.4	240	8.4	4.5	.0	--	11.1	2.2	20
APR. 16...	--	--	--	284	--	--	8.0	14	--	--	--
23...	110	37	.5	280	8.0	--	5.5	--	--	--	20
MAY 09...	--	--	--	183	--	--	13.0	360	--	--	--
12...	--	--	--	112	--	--	6.0	63	--	--	--
29...	70	12	.3	182	7.8	--	13.0	--	--	--	20
JUNE 10...	83	21	.4	199	8.8	25.5	20.0	6	7.2	3.6	30
14...	--	--	--	238	--	--	14.0	4	--	--	--
JULY 03...	110	19	.4	258	8.1	--	19.0	3	--	--	30
17...	110	30	.5	262	8.0	21.0	15.0	20	7.0	4.8	30
24...	86	21	.4	212	7.8	--	19.0	78	--	--	20
AUG. 05...	--	--	--	180	--	--	21.0	27	--	--	--
20...	110	21	.4	270	7.9	--	13.5	9	--	--	20
23...	--	--	--	268	--	--	15.0	177	--	--	--
27...	--	--	--	264	--	--	10.5	9	--	--	--
SEP. 04...	--	--	--	304	--	--	13.0	5	--	--	--
19...	120	24	.5	299	8.0	--	13.0	5	--	--	30
OCT. 02...	--	--	--	324	--	--	6.0	4	--	--	--

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	FECAL COLI- FORM (COL. PER 100 ML) (31616)
MAR. 04...	1630	0
JUNE 10...	1800	33
JULY 17...	1015	330

SAN JUAN RIVER BASIN

09346000 NAVAJO RIVER AT EDITH, COLO.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDI- MENT (MG/L) (80154)	SUS- PENDE SEDI- MENT CHARGE (T/DAY) (80155)	SUS, SED. FALL DIAM. % FINER THAN ,062 MM (70342)	SUS, SED. FALL DIAM. % FINER THAN ,125 MM (70343)	SUS, SED. FALL DIAM. % FINER THAN ,250 MM (70344)	SUS, SED. FALL DIAM. % FINER THAN ,500 MM (70345)
MAR.									
04...	1630	,0	12	59	1,9	--	--	--	--
APR.									
16...	1550	8,0	60	21	3,4	--	--	--	--
MAY									
09...	1400	13,0	300	3740	3030	76	92	98	100
12...	0830	6,0	350	4830	4560	8	18	50	92
JUNE									
10...	1800	20,0	43	44	5,1	--	--	--	--
14...	1045	14,0	55	75	11	--	--	--	--
JULY									
03...	1215	19,0	55	36	5,3	--	--	--	--
17...	1015	15,0	73	99	20	--	--	--	--
24...	1145	19,0	55	296	44	--	--	--	--
AUG.									
05...	1530	21,0	55	107	16	--	--	--	--
20...	0915	13,5	36	32	3,1	--	--	--	--
23...	1130	15,0	31	358	30	--	--	--	--
27...	0900	10,5	31	32	2,7	--	--	--	--
SEP.									
04...	1045	13,0	27	28	2,0	--	--	--	--
19...	1145	13,0	30	27	2,2	--	--	--	--
OCT.									
02...	1030	6,0	30	8	,65	--	--	--	--

DATE	SUS, SED. FALL DIAM. % FINER THAN (70346)	SUS, SED. FALL DIAM. % FINER THAN (70347)	SUS, SED. SIEVE DIAM. % FINER THAN (70331)	SUS, SED. SIEVE DIAM. % FINER THAN (70332)	SUS, SED. SIEVE DIAM. % FINER THAN (70333)	SUS, SED. SIEVE DIAM. % FINER THAN (70334)	SUS, SED. SIEVE DIAM. % FINER THAN (70335)	SUS, SED. SIEVE DIAM. % FINER THAN (70336)
MAR.								
04...	--	--	--	--	--	--	--	--
APR.								
16...	--	--	97	100	--	--	--	--
MAY								
09...	--	--	--	--	--	--	--	--
12...	99	100	--	--	--	--	--	--
JUNE								
10...	--	--	42	53	71	98	100	--
14...	--	--	24	28	37	82	98	100
JULY								
03...	--	--	37	43	52	88	98	100
17...	--	--	55	70	85	100	--	--
24...	--	--	71	74	79	94	99	100
AUG.								
05...	--	--	60	68	79	97	100	--
20...	--	--	70	82	92	100	--	--
23...	--	--	99	99	100	--	--	--
27...	--	--	55	61	68	97	100	--
SEP.								
04...	--	--	42	45	51	86	95	100
19...	--	--	47	60	72	87	100	--
OCT.								
02...	--	--	88	89	97	100	--	--

SAN JUAN RIVER BASIN

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09355500 SAN JUAN RIVER NEAR ARCHULETA, N. MEX.
(Irrigation network station)

LOCATION.--Lat 36°48'05", long 107°41'51", in N½ sec.20, T.30 N., R.8 W., San Juan County, at gaging station, 0.5 mi (0.8 km) upstream from Gobernador Canyon, 0.8 mi (1.3 km) northeast of Archuleta, 7.2 mi (11.6 km) downstream from Navajo Dam, and at mile 291.4 (468.9 km) (revised).

DRAINAGE AREA.--3,260 sq mi² (8,440 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: December 1954 to current year.

Water temperatures: December 1954 to January 1969.

Sediment records: December 1954 to September 1965.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SiO ₂) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO ₃) (MG/L) (00440)
JAN, 07...	1600	1990	12	30	--	28	5.5	13	1.8	90
FEB, 04...	1645	1510	11	20	--	29	5.5	14	1.9	88
MAR, 06...	1200	970	9.9	30	--	33	5.7	13	1.8	95
APR, 03...	1730	1030	9.6	10	--	33	6.3	16	2.0	80
MAY, 06...	1910	1010	5.8	20	--	33	6.2	15	1.9	88
JUNE, 12...	1545	732	10	10	--	33	5.9	14	1.8	91
JULY, 17...	1345	668	11	20	--	31	6.3	15	2.1	98
AUG, 22...	1030	692	10	20	--	32	5.9	14	2.0	99
SEP, 25...	1630	708	11	10	0	31	6.9	14	2.5	86
OCT, 23...	1300	486	11	10	--	33	5.7	17	2.1	100
NOV, 22...	0915	468	10	0	--	34	5.5	15	1.5	109
DEC, 20...	1015	504	11	10	--	33	6.6	16	1.8	102

DATE	CAR- BONATE (CO ₃) (MG/L) (00445)	DIS- SOLVED SULFATE (SO ₄) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)
JAN, 07...	1	42	2.2	.2	.13	.00	.13	.13	.02
FEB, 04...	2	43	3.1	.2	.08	.01	.09	.09	.05
MAR, 06...	0	46	3.0	.4	.03	.00	.03	.03	.03
APR, 03...	8	52	5.1	.4	.01	.00	.03	.01	.07
MAY, 06...	5	52	2.5	.4	.03	.00	.03	.03	.05
JUNE, 12...	3	47	3.0	.2	.03	.00	.06	.03	.02
JULY, 17...	0	55	3.5	.2	.03	.01	.08	.04	.04
AUG, 22...	0	56	6.3	.2	.06	.00	.06	.06	.03
SEP, 25...	7	49	2.3	.2	.03	.00	.07	.03	.03
OCT, 23...	0	58	2.7	.2	.06	.00	.06	.06	.08
NOV, 22...	0	48	3.0	.2	.09	.00	.09	.09	.01
DEC, 20...	0	56	3.1	.2	.11	.00	.15	.11	.03

09355500 SAN JUAN RIVER NEAR ARCHULETA, N. MEX.--Continued
 CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)
JAN, 07...	.29	.44	.04	.01	153	151	93	17	.6
FEB, 04...	.11	.25	.03	.01	168	154	95	20	.6
MAR, 06...	.36	.42	.08	.01	162	160	110	28	.6
APR, 03...	.24	.34	.01	.00	184	172	110	29	.7
MAY, 06...	.30	.38	.02	.00	178	165	110	27	.6
JUNE, 12...	.27	.35	.00	.01	173	163	110	27	.6
JULY, 17...	.22	.34	.04	.00	168	173	100	23	.6
AUG, 22...	.28	.37	.02	.01	181	176	100	23	.6
SEP, 25...	.31	.41	.05	.01	171	167	110	24	.6
OCT, 23...	.23	.37	.04	.00	183	179	110	24	.7
NOV, 22...	.14	.24	.04	.00	182	171	110	21	.6
DEC, 20...	.09	.27	.02	.01	194	178	110	26	.7

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN, 07...	236	8.6	1.0	8.0	--	10.0	--	3.1	20
FEB, 04...	247	9.1	5.0	6.5	--	11.4	--	3.4	30
MAR, 06...	260	8.8	14.0	5.0	--	11.8	--	3.8	30
APR, 03...	282	9.5	8.0	7.0	--	12.6	--	3.2	20
MAY, 06...	272	8.8	18.5	10.0	--	11.2	--	4.1	140
JUNE, 12...	272	8.7	32.0	13.0	--	10.6	--	3.2	30
JULY, 17...	277	8.3	--	12.0	--	--	--	5.5	20
AUG, 22...	269	8.1	28.5	8.5	--	10.4	--	3.9	30
SEP, 25...	276	8.9	24.5	11.5	--	10.4	--	4.9	640
OCT, 23...	295	8.4	9.0	8.0	5	10.3	10	7.2	0
NOV, 22...	285	7.7	7.5	4.5	4	10.5	0	3.3	40
DEC, 20...	292	8.3	-1.0	4.5	5	11.1	7	3.4	20

TRACE ELEMENT ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)
APR, 03...	1730	2	0	20	0	--	3
SEP, 25...	1630	1	0	640	0	0	1

DATE	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
APR, 03...	10	<100	--	.0	0	1	10
SEP, 25...	10	<100	0	.1	0	1	0

SAN JUAN RIVER BASIN

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09357300 SAN JUAN RIVER ABOVE ANIMAS RIVER, AT FARMINGTON, N. MEX.

LOCATION.--Lat 36°43'10", long 108°12'45", in NE¼SE¼NE¼ sec.20, T.29 N., R.13 W., San Juan County, 100 ft (30 m) upstream from mouth of Animas River, at south edge of Farmington, and at mile 99 (159 km).

DRAINAGE AREA.--5,800 mi² (15,000 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: March 1963 to current year.

REMARKS.--Discharges are estimated from the streamflow records of the San Juan River at Farmington and Animas River at Farmington stations.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
JAN.									
08...	1610	1990	13	--	36	6.5	21	1.8	102
FEB.									
05...	1420	1660	11	--	37	6.5	23	2.1	103
MAR.									
05...	1700	1040	10	--	46	7.7	34	2.0	106
APR.									
02...	1445	1140	9.1	--	43	7.6	31	2.2	108
MAY									
07...	1600	820	9.6	--	44	7.6	32	2.0	102
JUNE									
13...	1630	388	9.9	--	51	8.6	39	2.2	113
JULY									
18...	0845	1280	11	--	84	8.0	96	4.0	137
AUG.									
20...	1110	490	11	--	52	8.4	35	2.7	124
SEP.									
26...	1600	627	11	10	49	7.9	37	2.7	121
OCT.									
23...	1750	644	10	--	60	6.3	81	3.2	147
NOV.									
21...	1715	473	10	--	57	7.4	45	2.2	127
DEC.									
17...	1645	605	10	--	56	8.7	43	2.1	121

DATE	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS DUE AT 180 C (MG/L) (70300)	DIS- SOLVED SOLIDS (RESI- DUE AT CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)
JAN.									
08...	0	66	3.8	.2	.17	--	--	199	120
FEB.									
05...	0	77	4.1	.0	.15	--	--	212	120
MAR.									
05...	0	120	5.2	.3	.13	--	--	278	150
APR.									
02...	0	100	5.1	.3	.14	--	--	252	140
MAY									
07...	5	110	4.0	.3	.03	--	--	265	140
JUNE									
13...	4	130	5.1	.3	.08	--	--	306	160
JULY									
18...	0	320	5.0	.4	.51	--	--	598	240
AUG.									
20...	0	130	4.5	.2	.08	--	--	305	160
SEP.									
26...	0	130	4.3	.2	.13	.01	318	302	160
OCT.									
23...	0	230	6.3	.3	.26	--	--	471	180
NOV.									
21...	0	150	4.9	.2	.24	--	--	340	170
DEC.									
17...	0	150	4.4	.2	.26	--	--	335	180

SAN JUAN RIVER BASIN

09357300 SAN JUAN RIVER ABOVE ANIMAS RIVER, AT FARMINGTON, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED OXYGEN (MG/L) (00300)	DIS- SOLVED BORON (B) (01020)
JAN. 08...	33	.8	333	8.2	6.0	6.0	--	20
FEB. 05...	35	.9	346	8.1	1.5	4.5	--	30
MAR. 05...	60	1.2	443	8.2	10.5	8.0	--	40
APR. 02...	50	1.1	418	8.3	12.0	8.5	--	30
MAY 07...	49	1.2	422	8.7	26.0	18.5	--	--
JUNE 13...	63	1.3	489	8.7	37.0	22.5	--	20
JULY 18...	130	2.7	940	7.6	23.0	19.0	--	70
AUG. 20...	63	1.2	483	8.3	29.5	21.0	--	30
SEP. 26...	61	1.3	485	8.0	27.0	17.0	--	160
OCT. 23...	59	2.7	764	8.2	15.0	11.0	10.0	60
NOV. 21...	66	1.5	552	8.2	15.0	6.5	10.5	40
DEC. 17...	81	1.4	531	8.2	5.0	5.0	10.5	5

09364500 ANIMAS RIVER AT FARMINGTON, N. MEX.
(Radiochemical network station)

LOCATION (revised).--Lat 36°43'17", long 108°12'05", in SW¼ sec. 15, T.29 N., R.13 W., San Juan County, at gaging station, in Boyd City Park, 900 ft (274 m) upstream from bridge on former State Highway 17, 0.4 mi (0.6 km) downstream from bridge on State Highway 17, and 1.5 mi (2.4 km) upstream from mouth. Prior to Nov. 1, 1973 at site 900 ft (274 m) downstream.

DRAINAGE AREA.--1,360 mi² (3,520 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: June 1940 to current year.

Specific conductance: October 1941 to current year.

Water temperatures: December 1950 to current year.

Sediment records: December 1950 to current year.

EXTREMES:

Current year:

Specific conductance: Maximum daily, 1,230 micromhos Sept. 14; minimum daily, 251 micromhos May 28.

Water temperatures: Maximum, 30.5°C July 14; minimum, freezing point Dec. 13.

Sediment concentrations: Maximum daily, 13,800 mg/l July 18; minimum daily, 1 mg/l Sept. 7.

Sediment discharge: Maximum daily, 84,100 tons (76,300 tonnes) July 18; minimum daily, .02 ton (.02 tonne) Sept. 7.

Period of record:

Specific conductance: Maximum daily, 1,980 micromhos Aug. 19, 1944; minimum daily, 156 micromhos May 29, 1972.

Water temperatures: Maximum, 32.0°C Aug. 26, 1966; minimum, freezing point on many days during winter months.

Sediment concentrations: Maximum daily, 36,800 mg/l July 23, 1954; minimum daily, 1 mg/l on several days during September 1956, September 1958, and September 1974.

Sediment discharge: Maximum daily, 337,000 tons (306,000 tonnes) July 23, 1954; minimum daily, less than .50 ton (.45 tonne) on many days during 1955-57, 1959, 1960, 1963, 1972, and 1974.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00001)	DIS- SOLVED SILICA (SiO ₂) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO ₃) (MG/L) (00440)
JAN, 08...	1715	320	9.5	10	--	99	15	45	3.5	208
FEB, 05...	1515	248	10	10	--	110	16	40	3.9	216
MAR, 05...	1800	288	9.7	20	--	110	19	50	4.1	219
APR, 02...	1800	360	7.9	10	75	87	14	32	3.3	163
MAY, 07...	1830	987	7.1	80	--	53	7.3	12	1.7	106
JUNE, 13...	1900	1350	6.1	10	--	48	6.3	14	1.8	96
JULY, 18...	1115	1450	6.8	40	--	100	9.0	38	4.7	126
AUG, 20...	1900	21	6.3	20	--	130	21	64	4.6	207
SEP, 26...	1845	133	10	20	40	120	20	56	4.7	227
OCT, 23...	1530	540	8.2	20	--	110	12	50	4.7	196
NOV, 21...	1600	255	8.0	10	--	110	15	40	3.5	191
DEC, 17...	1330	244	8.8	50	--	110	18	42	3.1	193

DATE	CAR- BONATE (CO ₃) (MG/L) (00445)	DIS- SOLVED SULFATE (SO ₄) (MG/L) (00945)	DIS- SOLVED CHLOR- IDE (CL) (MG/L) (00940)	DIS- SOLVED FLUOR- IDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)
JAN, 08...	0	180	33	.4	.38	.01	.39	.39	.31
FEB, 05...	0	210	30	.4	.36	.02	.39	.38	.11
MAR, 05...	0	240	32	.6	.35	.01	.39	.36	.44
APR, 02...	0	170	20	.6	.10	.01	.13	.11	.07
MAY, 07...	0	89	7.6	.5	.15	.01	.19	.16	.03
JUNE, 13...	0	78	8.4	.4	.02	.00	.04	.02	.02
JULY, 18...	0	250	13	.3	.14	.02	2.0	.16	.05
AUG, 20...	--	320	31	.6	.45	.00	.48	.45	.04
SEP, 26...	0	260	33	.5	.08	.00	.10	.08	.05
OCT, 23...	0	230	26	.4	.05	.01	.06	.06	.13
NOV, 21...	0	200	26	.4	.09	.00	.20	.09	.01
DEC, 17...	--	220	27	.4	.25	.01	.29	.26	.03

SAN JUAN RIVER BASIN

09364500 ANIMAS RIVER AT FARMINGTON, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (006005)	TOTAL NITRO- GEN (N) (MG/L) (006000)	TOTAL PHOS- PHORUS (P) (MG/L) (006055)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (006711)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (703000)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (703011)	HARD- NESS (CA, MG) (009000)	NON- CAR- BONATE HARD- NESS (MG/L) (009002)	SODIUM AD- SORP- TION RATIO (009311)
JAN, 08...	.28	.98	.23	.05	503	490	310	140	1.1
FEB, 05...	.12	.62	.07	.04	564	529	340	160	.9
MAR, 05...	.06	.89	.21	.05	581	575	350	170	1.2
APR, 02...	.45	.65	.14	.02	438	416	280	140	.8
MAY, 07...	.53	.75	.13	.01	250	231	160	75	.4
JUNE, 13...	.33	.39	.19	.00	229	210	150	67	.5
JULY, 18...	.14	.16	1.9	.00	493	485	290	180	1.0
AUG, 20...	.17	.69	.01	.00	732	682	410	240	1.4
SEP, 26...	.29	.44	.04	.02	621	617	380	200	1.2
OCT, 23...	7.2	7.4	1.8	.01	546	538	320	160	1.2
NOV, 21...	.07	.28	.03	.01	516	498	340	180	1.0
DEC, 17...	.10	.42	.06	.02	526	526	350	190	1.0

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (000955)	PH (UNITS) (004000)	AIR TEMPER- ATURE (DEG C) (000200)	TEMPER- ATURE (DEG C) (000110)	TUR- BID- ITY (JTU) (000700)	DIS- SOLVED OXYGEN (MG/L) (003000)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (003400)	TOTAL ORGANIC CARBON (MG/L) (006800)	DIS- SOLVED BORON (B) (UG/L) (010200)
JAN, 08...	770	8.5	2.0	2.0	--	10.2	--	4.2	70
FEB, 05...	818	8.9	1.0	2.0	--	11.0	--	1.6	90
MAR, 05...	875	8.5	5.5	9.0	--	9.6	--	5.4	90
APR, 02...	667	8.6	5.0	9.0	--	9.0	--	5.8	70
MAY, 07...	386	8.2	27.0	17.0	--	8.0	--	4.4	30
JUNE, 13...	354	8.4	30.5	20.0	--	6.9	--	2.7	50
JULY, 18...	739	7.7	24.5	19.5	--	--	--	102	80
AUG, 20...	1030	8.2	29.0	25.0	--	6.0	--	3.2	140
SEP, 26...	934	8.4	23.0	21.5	--	6.4	--	3.6	680
OCT, 23...	833	8.2	15.0	13.0	2500	--	210	47	20
NOV, 21...	779	8.4	14.0	9.5	3	10.6	8	6.1	100
DEC, 17...	789	8.6	7.0	2.5	20	12.4	4	2.5	80

TRACE ELEMENT AND RADIOCHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (010000)	DIS- SOLVED BARIUM (BA) (UG/L) (010005)	DIS- SOLVED BORON (B) (UG/L) (010200)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (010255)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (010320)	DIS- SOLVED COPPER (CU) (UG/L) (010400)	DIS- SOLVED IRON (FE) (UG/L) (010446)	TOTAL LEAD (PB) (UG/L) (010511)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (010566)	TOTAL MERCURY (UG/L) (719000)
APR, 02...	1800	1	--	70	0	0	4	10	<100	75	.0
SEP, 26...	1845	1	0	680	0	0	2	20	<100	40	.0

DATE	DIS- SOLVED SILVER (AG) (UG/L) (010755)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (011455)	DIS- SOLVED ZINC (ZN) (UG/L) (010900)	DIS- GROSS ALPHA AS U-NAT. (UG/L) (800300)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L) (800400)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L) (035155)	SUS- PENDED GROSS BETA AS CS-137 (PC/L) (035166)	DIS- SOLVED GROSS BETA AS AS SR90 /Y90 (PC/L) (800500)	SUS- PENDED GROSS BETA AS AS SR90 /Y90 (PC/L) (800600)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L) (095111)	DIS- SOLVED NATURAL URANIUM (U) (UG/L) (227030)
APR, 02...	0	0	10	7.7	12	7.3	18	6.1	15	.08	2.1
SEP, 26...	0	0	10	--	--	--	--	--	--	--	--

SAN JUAN RIVER BASIN

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09364500 ANIMAS RIVER AT FARMINGTON, N. MEX.--Continued

SPECIFIC CONDUCTANCE (MICROMHUS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE=DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	734	790	845	640	495	302	555	775	1080	888	775	762
2	800	775	865	645	510	333	550	698	1110	859	810	782
3	835	783	865	595	480	368	562	725	1040	970	778	772
4	803	775	835	640	434	410	579	690	1120	852	775	765
5	770	785	847	665	388	415	590	670	1130	932	795	770
6	760	835	790	675	392	362	625	663	1130	970	808	742
7	775	820	775	670	378	412	690	668	1180	933	815	746
8	745	815	798	690	367	438	663	673	1140	941	815	732
9	765	840	775	670	364	465	680	725	1220	914	726	759
10	790	840	760	650	309	500	675	700	1110	980	800	715
11	780	785	760	575	286	527	725	658	1100	1050	740	752
12	810	765	733	590	284	440	710	690	1170	985	747	729
13	805	765	765	650	286	348	720	740	1200	803	787	767
14	770	770	760	636	290	343	765	730	1230	877	730	795
15	795	780	745	660	318	335	765	781	1220	840	680	750
16	810	765	745	590	300	316	775	845	1120	814	664	756
17	810	780	715	693	267	364	590	880	970	724	655	732
18	811	790	730	693	269	385	721	865	995	811	688	761
19	785	815	730	663	301	392	645	995	945	820	750	800
20	790	825	715	668	285	---	610	975	870	800	730	785
21	786	815	695	603	332	394	620	915	990	802	691	709
22	789	825	680	610	394	422	618	1080	980	840	725	735
23	794	810	680	630	385	418	610	1050	905	824	739	725
24	792	820	680	625	375	428	628	1020	910	814	755	766
25	783	845	680	605	372	435	645	965	910	811	748	807
26	776	835	660	563	368	445	658	1020	875	799	754	830
27	760	805	670	540	288	465	660	797	862	988	730	763
28	784	815	675	430	251	492	645	786	766	794	725	725
29	796	---	670	460	255	500	695	765	772	771	723	780
30	805	---	650	480	268	514	690	817	842	689	774	782
31	810	---	635	---	270	---	695	1010	---	765	---	720
MONTH	788	802	740	617	341	413	657	818	1030	860	748	759
YEAR	MAX	1230	MIN	251	MEAN	714						

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE=DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.5	4.0	12.0	12.0	17.5	15.0	21.0	24.5	23.0	20.0	10.0	3.5
2	0.5	4.0	10.0	9.0	18.5	15.0	23.5	23.5	22.0	21.0	10.0	4.0
3	0.5	3.5	8.5	10.0	18.0	14.0	26.0	26.0	28.0	19.0	7.0	5.0
4	0.5	4.0	8.5	12.0	18.0	18.0	27.5	26.5	25.0	23.0	8.0	6.0
5	1.0	1.0	9.0	6.5	16.5	17.0	27.0	26.5	27.0	24.0	9.0	5.5
6	1.0	2.0	10.5	11.0	13.0	15.5	23.0	24.0	26.0	23.0	9.0	5.5
7	0.5	2.0	8.0	13.5	13.0	15.5	25.5	26.0	27.0	22.0	10.0	2.5
8	3.0	2.0	8.5	10.0	14.0	15.0	28.0	26.0	25.0	---	10.0	4.0
9	4.0	2.0	6.0	11.0	14.0	19.0	24.0	24.0	26.0	---	9.0	4.0
10	4.0	1.0	7.5	11.0	14.0	15.5	29.5	26.0	28.0	---	9.0	2.5
11	2.0	2.5	9.0	8.0	12.0	16.0	22.0	26.5	25.0	---	9.0	4.0
12	0.5	4.0	10.5	13.0	15.0	22.0	21.5	25.5	27.0	---	8.0	3.5
13	1.0	4.0	12.0	7.0	11.5	20.0	29.5	25.0	23.0	---	8.0	0.0
14	3.0	6.5	12.0	14.0	14.5	16.5	30.5	26.0	25.0	---	9.0	1.0
15	3.0	5.5	12.5	14.0	15.0	19.0	26.5	26.0	23.0	---	9.0	1.0
16	3.0	2.0	8.0	16.0	15.5	18.5	26.0	25.0	22.0	---	9.0	3.5
17	2.0	3.0	14.0	18.0	13.0	17.5	25.5	28.0	18.0	---	8.0	3.0
18	0.5	3.5	13.0	17.0	14.5	17.0	23.0	26.5	21.0	18.0	9.0	3.0
19	2.5	5.5	14.0	14.0	13.0	23.0	24.0	22.5	24.0	16.0	9.0	3.0
20	4.0	6.0	13.0	9.5	13.0	---	22.5	25.0	23.0	15.0	8.0	2.0
21	3.0	5.5	12.0	16.0	10.5	23.0	25.0	27.0	20.0	15.0	8.0	2.0
22	3.5	6.0	8.0	17.0	17.0	19.0	26.5	23.5	23.0	15.0	8.0	2.0
23	0.5	5.0	12.5	15.0	15.5	20.0	26.0	26.5	24.0	14.0	8.0	2.0
24	2.5	3.0	13.0	17.0	15.5	23.0	25.0	23.0	23.0	14.0	7.0	1.0
25	0.5	4.5	13.0	15.5	13.0	20.5	23.5	18.5	22.0	15.0	8.0	0.5
26	1.5	1.5	13.0	17.0	17.0	24.0	23.5	17.0	23.0	14.0	7.0	2.0
27	1.5	8.0	14.0	12.0	18.0	23.5	27.0	26.0	21.0	10.0	6.5	1.5
28	1.0	9.0	14.0	12.0	13.5	23.0	22.0	29.0	18.0	11.0	5.0	0.5
29	1.5	---	15.0	16.5	13.0	23.0	27.0	28.0	19.0	9.0	4.5	2.0
30	3.0	---	15.0	17.5	15.0	25.0	25.5	28.0	21.0	9.0	4.0	1.5
31	0.5	---	14.5	---	15.0	---	23.5	27.0	---	8.0	---	0.5
MONTH	2.0	4.0	11.5	13.0	14.5	19.0	25.0	25.0	23.5	---	8.0	2.5
YEAR	MAX	30.5	MIN	0.0	MEAN	13.5						

SAN JUAN RIVER BASIN

09364500 ANIMAS RIVER AT FARMINGTON, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	292	337	271	284	56	43	276	106	79
2	220	260	154	276	48	36	288	425	330
3	240	390	253	256	42	29	308	950	790
4	260	314	220	248	38	25	308	200	166
5	280	212	160	256	31	21	288	296	230
6	300	147	119	240	35	23	284	230	176
7	332	49	44	225	54	33	300	204	165
8	316	67	57	215	56	33	320	215	186
9	328	77	68	210	50	28	320	288	249
10	332	62	56	248	75	50	324	179	157
11	304	78	64	268	90	65	345	200	186
12	296	80	64	264	80	57	336	217	197
13	304	80	66	296	62	50	332	223	200
14	304	94	77	296	42	34	365	299	295
15	288	74	58	276	35	26	380	457	469
16	292	60	47	272	44	32	390	618	651
17	292	38	30	268	33	24	380	640	657
18	308	56	47	268	30	22	375	640	648
19	308	48	40	260	34	24	370	645	644
20	312	74	62	272	45	33	370	481	481
21	312	58	49	268	71	51	355	307	294
22	288	172	134	250	65	44	340	199	183
23	284	83	64	235	41	26	332	157	141
24	260	73	51	230	36	22	340	148	136
25	256	83	57	230	43	27	332	166	149
26	268	77	56	248	75	50	332	155	139
27	292	80	63	280	99	75	296	179	143
28	276	68	51	268	94	68	312	144	121
29	276	70	52	--	--	--	300	180	146
30	276	51	38	--	--	--	304	158	130
31	252	61	42	--	--	--	284	139	107
TOTAL	8948	--	2614	7207	--	1051	10186	--	8645

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	336	145	132	468	87	110	1850	1200	5990
2	375	137	139	480	86	111	1420	600	2300
3	370	110	110	570	100	154	1200	440	1430
4	340	231	212	766	300	620	1080	150	437
5	304	55	45	960	390	1010	1140	380	1170
6	288	33	26	1000	440	1190	1210	1450	4740
7	268	37	27	1030	365	1020	1050	420	1190
8	272	71	52	1220	560	1840	960	113	293
9	260	44	31	1560	1180	4970	798	70	151
10	288	42	33	1960	1540	8150	675	36	66
11	284	44	34	2200	1590	9440	696	450	846
12	296	44	35	2150	1010	5860	933	407	1030
13	272	42	31	2040	760	4190	1190	360	1160
14	276	39	29	1800	590	2870	1270	310	1060
15	264	66	47	1430	1040	4020	1330	207	743
16	236	83	53	1650	940	4190	1340	465	1680
17	202	35	19	2120	850	4870	1110	550	1650
18	196	30	16	2040	1100	6060	1070	53	153
19	224	59	36	1730	1400	6540	996	25	67
20	292	47	37	1800	2230	10800	1000	30	81
21	292	45	35	1280	560	1940	960	27	70
22	260	38	27	1020	610	1680	920	22	55
23	236	31	20	1030	790	2200	900	21	51
24	268	50	36	1110	940	2820	888	19	46
25	312	80	67	1150	460	1430	800	21	45
26	414	180	201	1180	513	1960	750	18	36
27	758	500	1020	1910	1110	5800	680	12	22
28	689	321	597	2220	1070	6410	600	11	18
29	612	210	347	2400	940	5330	560	10	15
30	522	115	162	2150	750	4350	520	8	11
31	--	--	--	2120	450	2580	--	--	--
TOTAL	10006	--	3656	46244	--	114515	29896	--	26606

09364500 ANIMAS RIVER AT FARMINGTON, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	468	11	14	185	170	85	12	10	.32
2	375	11	11	202	157	86	15	9	.36
3	355	8	7.7	202	164	89	8.8	5	.12
4	296	9	7.2	288	660	513	8.4	8	.18
5	284	14	11	360	876	920	9.8	7	.19
6	260	12	8.4	320	444	384	8.0	4	.09
7	240	330	214	228	250	154	6.4	1	.02
8	228	10	6.2	167	255	115	7.2	9	.17
9	236	9	5.7	182	324	159	12	7	.23
10	236	8	5.1	224	272	165	16	13	.56
11	203	5	2.7	220	156	93	12	5	.16
12	182	7	3.4	176	51	24	9.8	4	.11
13	152	7	2.9	155	35	15	6.4	12	.21
14	123	3	1.0	150	39	16	6.4	16	.28
15	158	31	13	123	40	13	9.8	8	.21
16	232	250	157	91	41	10	21	13	.74
17	764	2050	4750	65	24	4.2	40	23	2.5
18	1790	13800	84100	47	23	2.9	52	22	3.1
19	1010	4850	16300	29	19	1.5	42	23	2.6
20	742	1360	2720	46	27	3.4	47	21	2.7
21	654	870	1540	35	33	3.1	44	10	1.2
22	577	920	1430	21	7	.40	40	6	.65
23	486	770	1010	19	7	.36	60	23	3.7
24	420	496	562	23	5	.31	100	470	127
25	380	365	374	23	8	.50	142	237	91
26	340	445	409	18	13	.63	139	125	47
27	320	326	282	13	15	.53	142	136	52
28	292	247	195	16	16	.69	158	118	50
29	272	290	213	16	24	1.0	164	75	33
30	264	275	196	16	15	.65	128	51	18
31	228	160	98	16	13	.56	--	--	--
TOTAL	12567	--	114649.3	3676	--	2861.73	1467.0	--	438.4

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	118	31	9.9	430	830	964	248	55	37
2	106	28	8.0	450	850	1030	244	56	37
3	106	26	7.4	480	1620	2100	268	75	54
4	104	17	4.8	430	1510	1750	272	69	51
5	94	21	5.3	380	710	728	288	69	54
6	91	23	5.7	325	320	281	280	57	43
7	81	23	5.0	300	337	273	256	47	32
8	87	300	70	280	290	219	260	49	34
9	81	150	33	290	240	188	248	40	27
10	114	250	77	320	263	227	228	38	23
11	199	1270	682	300	189	153	220	40	24
12	213	480	276	270	172	125	224	53	32
13	252	660	449	260	134	94	220	56	33
14	220	310	184	290	150	117	213	73	42
15	206	150	83	270	110	80	228	94	58
16	206	130	72	260	104	73	210	89	50
17	202	89	49	260	102	72	216	78	45
18	196	63	33	280	95	72	236	83	53
19	192	55	29	290	80	63	224	74	45
20	176	40	19	280	78	59	224	53	32
21	176	40	19	260	76	53	252	85	58
22	195	652	905	260	77	54	244	99	65
23	556	7400	11300	270	66	48	216	63	37
24	414	5900	6600	260	60	42	196	49	26
25	345	1850	1720	245	46	30	182	41	20
26	308	500	416	236	56	36	176	55	26
27	639	11200	23500	240	54	35	228	117	72
28	504	7400	10100	244	42	28	228	105	65
29	817	13300	34800	244	45	30	248	159	106
30	742	9610	22000	244	60	40	228	77	47
31	500	1120	1510				220	72	43
TOTAL	8240	--	114972.1	8948	--	9064	7225	--	1371

CAL YR 1974 TOTAL WATER DISCHARGE (CFS-DAYS)
 CAL YR 1974 TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)

154610.0
 400443.53

WTR YR 1974 TOTAL WATER DISCHARGE (CFS-DAYS)
 WTR YR 1974 TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)

155356.0
 277924.83

SAN JUAN RIVER BASIN

09364500 ANIMAS RIVER AT FARMINGTON, N. MEX.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	SUS- PENDE SEDI- MENT CHARGE (MG/L) (80154)	SUS- PENDE SEDI- MENT CHARGE (T/DAY) (80155)	SUS, SED, FALL DIAM. X FINER THAN .002 MM (70337)	SUS, SED, FALL DIAM. X FINER THAN .004 MM (70338)	SUS, SED, FALL DIAM. X FINER THAN .016 MM (70340)	SUS, SED, FALL DIAM. X FINER THAN .062 MM (70342)
JAN.									
01...	1130	.5	300	1380	1120	22	27	48	--
08...	1715	2.0	320	73	63	--	--	--	--
MAR.									
05...	1800	9.0	288	240	187	58	73	87	--
APR.									
02...	1800	9.0	360	131	127	--	--	--	--
04...	1800	12.0	324	406	355	--	--	--	--
MAY									
07...	1830	17.0	987	299	797	13	14	32	70
09...	2130	16.0	1930	2000	10400	7	10	21	57
17...	2250	13.0	2530	1370	9360	--	--	--	35
JUNE									
13...	1900	20.0	1350	233	849	--	--	--	45
JULY									
18...	1115	19.5	1450	12600	49300	45	56	84	98
19...	1700	24.0	750	2060	4170	35	46	68	--
SEP.									
26...	1845	21.5	133	102	37	--	--	--	--
OCT.									
11...	1549	--	173	1360	635	62	77	97	--
23...	1530	13.0	540	6860	10000	45	58	80	93
30...	1355	--	682	7110	13100	45	60	84	95
NOV.									
21...	1600	9.5	255	95	65	--	--	--	--

DATE	SUS, SED, FALL DIAM. X FINER THAN .125 MM (70343)	SUS, SED, FALL DIAM. X FINER THAN .250 MM (70344)	SUS, SED, FALL DIAM. X FINER THAN .500 MM (70345)	SUS, SED, FALL DIAM. X FINER THAN 1.00 MM (70346)	SUS, SED, FALL DIAM. X FINER THAN .062 MM (70331)	SUS, SED, FALL DIAM. X FINER THAN .125 MM (70332)	SUS, SED, FALL DIAM. X FINER THAN .250 MM (70333)	SUS, SED, FALL DIAM. X FINER THAN .500 MM (70334)
JAN.								
01...	--	--	--	--	90	96	98	100
08...	--	--	--	--	63	76	89	100
MAR.								
05...	--	--	--	--	97	98	99	100
APR.								
02...	--	--	--	--	90	96	100	--
04...	--	--	--	--	90	100	--	--
MAY								
07...	92	98	100	--	--	--	--	--
09...	77	90	98	100	--	--	--	--
17...	46	69	97	100	--	--	--	--
JUNE								
13...	64	80	100	--	--	--	--	--
JULY								
18...	100	--	--	--	--	--	--	--
19...	--	--	--	--	94	98	99	100
SEP.								
26...	--	--	--	--	92	96	98	100
OCT.								
11...	--	--	--	--	99	99	100	--
23...	94	94	99	100	--	--	--	--
30...	99	100	--	--	--	--	--	--
NOV.								
21...	--	--	--	--	58	86	96	100

SAN JUAN RIVER BASIN

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09365000 SAN JUAN RIVER AT FARMINGTON, N. MEX.
(Surveillance network station)

LOCATION.--Lat 36°43'22", long 108°13'30", in SE¼ sec.17, T.29 N., R.13 W., San Juan County, at gaging station, 360 ft (110 m) downstream from highway bridge, 4,000 ft (1,200 m) downstream from Animas River, and 1 mi (1.6 km) west of Farmington, and at mile 251.4 (404.5 km) (revised).

DRAINAGE AREA.--7,240 mi² (18,750 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: May 1962 to current year.
Water temperatures: June 1962 to current year.

EXTREMES:

Current year:

Dissolved solids: Maximum, 1,480 mg/l July 15; minimum, 190 mg/l Jan. 8.
Hardness: Maximum, 490 mg/l July 15; minimum, 110 mg/l Jan. 8.
Specific conductance: Maximum daily, 2,030 micromhos July 15; minimum daily, 326 micromhos May 18.
Water temperatures: Maximum, 28.5°C July 4, 13; minimum, freezing point Dec. 13, 24, 28.

Period of record:

Dissolved solids: Maximum, 1,720 mg/l Aug. 8, 1970; minimum, 103 mg/l May 11-15, 1962.
Hardness: Maximum, 820 mg/l Aug. 6, 1968; minimum, 65 mg/l May 11-15, 1962.
Specific conductance: Maximum daily, 2,290 micromhos Aug. 8, 1970; minimum daily, 154 micromhos May 13, 1962.
Water temperatures: Maximum, 33.0°C July 6, 1967; minimum, freezing point on several days during December and January of most years.

REMARKS.--Daily chemical samples are collected by transversing the stream cross section.

CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- CHARGE (CFS) (00060)	DIS- SOLVED SILICA (SIO2) (00955)	DIS- SOLVED IRON (FE) (01046)	DIS- SOLVED CAL- CIUM (CA) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)
JAN.												
01-31	2010	12	--	48	8.1	25	2.3	118	0	99	9.2	.3
FEB.												
01-12	1850	4.5	--	43	8.1	25	2.1	106	0	96	8.0	.3
13-28	1310	6.2	--	51	9.4	36	2.3	112	0	140	12	.3
MAR.												
01-11	1380	11	--	61	9.6	41	2.3	140	0	150	10	.3
12-31	1410	10	--	56	9.4	32	2.2	132	0	120	9.5	.3
APR.												
01-08	1240	8.8	--	52	8.7	32	2.2	123	0	120	8.6	.2
09-11	828	11	--	58	9.8	38	2.4	132	0	140	9.9	.2
12-30	1150	10	--	51	8.4	30	2.3	120	0	110	7.5	.2
MAY												
01-08	1490	9.5	--	51	7.7	24	2.1	119	0	100	6.7	.3
09-20	2480	7.5	--	44	5.9	16	1.8	105	0	75	5.5	.3
21-26	1620	8.0	--	50	7.3	22	2.1	113	0	97	7.7	.3
27-31	2520	6.7	--	42	5.6	16	1.7	94	0	75	6.1	.4
JUNE												
01-18	1600	8.5	--	51	7.4	25	2.0	113	0	99	9.7	.3
19-30	992	6.9	--	58	8.9	33	2.4	125	0	130	14	.3
JULY												
01-14	421	9.5	--	67	12	56	3.0	150	0	190	14	.4
15-19	933	20	--	160	21	300	4.9	368	0	770	19	.5
16-19	1630	14	--	110	11	67	3.8	206	0	260	14	.5
20-31	980	12	--	67	10	41	2.8	149	0	150	11	.4
AUG.												
01-31	562	14	--	61	8.4	45	2.5	151	0	140	6.9	.3
SEP.												
01-30	620	33	--	63	9.0	43	2.7	141	0	150	9.3	.1
OCT.												
01-31	687	23	--	77	7.6	90	4.3	166	0	250	15	1.2
NOV.												
01-30	877	12	--	78	12	50	3.2	162	0	180	15	.3
DEC.												
01-31	820	12	--	73	11	44	2.4	154	0	180	17	.3
CALENDAR YEAR												
WTD. AVG.	--	12	--	58	8.7	37	2.5	131	0	134	10	.4
TIME WTD.												
AVG.	1170	13	--	61	9.1	42	2.6	138	0	147	11	.4
TOT. LOAD (TONS)	--	13500	--	66700	10000	42600	2850	151000	0	155000	11900	407
WATER YEAR												
WTD. AVG.	--	11	--	49	7.9	28	2.2	118	0	105	7.5	.3
TIME WTD.												
AVG.	1480	12	--	52	8.3	32	2.3	124	0	117	8.2	.3
TOT. LOAD (TONS)	--	16400	--	71200	11500	41300	3180	172000	0	154000	11000	397

09365000 SAN JUAN RIVER AT FARMINGTON, N. MEX.--Continued

CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS) PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS) PER DAY) (70302)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)
JAN,												
01-31	.33	--	50	--	264	.36	1430	150	56	.9	424	7.8
FEB,												
01-12	.03	--	40	--	239	.33	1190	140	54	.9	404	8.2
13-28	.02	--	50	--	313	.43	1110	170	74	1.2	506	7.9
MAR,												
01-11	.28	--	50	--	356	.48	1330	190	77	1.3	579	7.8
12-31	.26	--	40	--	306	.42	1170	180	70	1.0	506	7.8
APR,												
01-08	.03	--	40	--	293	.40	981	170	65	1.1	475	7.8
09-11	.02	--	60	--	335	.46	749	190	77	1.2	542	7.9
12-30	.08	--	40	--	279	.38	866	160	64	1.0	452	7.8
MAY												
01-08	.20	--	60	--	261	.36	1050	160	61	.8	438	7.7
09-20	.42	--	30	--	210	.29	1410	130	48	.6	354	7.7
21-26	.35	--	40	--	252	.34	1100	160	62	.8	420	7.6
27-31	.32	--	30	--	201	.27	1370	130	51	.6	342	7.6
JUNE												
01-18	.23	--	40	--	260	.35	1120	160	65	.9	443	7.7
19-30	.30	--	50	--	317	.43	849	180	79	1.1	523	7.7
JULY												
01-14	.41	--	50	--	428	.58	487	220	97	1.7	676	7.6
15-..	.08	--	160	--	1480	2.01	3730	490	190	5.9	2050	8.0
16-19	1.7	--	90	--	589	.80	2590	320	150	1.6	874	7.7
20-31	.52	--	70	--	370	.50	979	210	88	1.2	590	7.8
AUG,												
01-31	.25	--	80	--	354	.48	537	190	66	1.4	582	7.7
SEP,												
01-30	.01	--	70	--	380	.52	636	190	79	1.3	575	7.8
OCT,												
01-31	.44	--	70	--	552	.75	1320	220	84	2.6	852	7.8
NOV,												
01-30	.49	--	50	--	433	.59	1030	240	110	1.4	675	7.8
DEC,												
01-31	.51	--	--	--	418	.57	925	230	100	1.3	658	7.8
CALENDAR YEAR												
WTD, AVG,	.30	--	50	--	328	.45	--	179	72	1.2	526	7.8
TIME WTD,												
AVG,	.30	--	55	--	356	.49	--	190	77	1.3	568	7.8
TOT, LOAD (TONS)	351	--	55	--	379000	--	--	--	--	--	--	--
WATER YEAR												
WTD, AVG,	.25	--	49	--	271	.37	--	154	58	1.0	438	7.8
TIME WTD,												
AVG,	.24	--	53	--	296	.40	--	165	63	1.1	476	7.8
TOT, LOAD (TONS)	359	--	64	--	396000	--	--	--	--	--	--	--

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	CROSS SECTION LOC- ATION (FT) (00001)	INSTAN- TANEOUS DIS- CHARGE (CFE) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCU3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)
JAN,												
08...	1445	60	2310	--	--	--	--	--	--	--	--	--
08...	1520	20	2310	12	20	--	35	6.3	21	1.9	100	0
FEB,												
05...	1230	60	1910	--	--	--	--	--	--	--	--	--
05...	1300	20	1910	11	10	--	39	6.8	23	2.0	106	0
MAR,												
05...	1615	20	1330	10	30	--	56	9.4	37	2.4	126	0
APR,												
02...	1545	60	1340	--	--	--	--	--	--	--	--	--
02...	1630	20	1340	8.8	10	13	48	8.3	32	2.3	114	0
MAY												
07...	1645	60	1640	--	--	--	--	--	--	--	--	--
07...	1720	20	1640	8.1	10	--	48	7.3	22	1.8	106	2
JUNE												
13...	1700	60	1410	--	--	--	--	--	--	--	--	--
13...	1800	20	1510	7.9	20	--	51	7.9	27	2.1	106	2
JULY												
18...	0915	60	--	--	--	--	--	--	--	--	--	--
18...	0945	20	2500	9.8	500	--	98	9.3	86	4.6	133	0
AUG,												
20...	1730	--	490	11	--	--	56	8.9	39	2.9	135	0
SEP,												
26...	1700	--	760	11	10	10	72	10	41	3.8	153	0
OCT,												
23...	1730	--	1050	10	--	--	70	7.5	72	3.5	158	0
NOV,												
21...	1700	--	660	10	--	--	65	8.7	45	2.4	138	0
DEC,												
17...	1530	--	830	9.8	--	--	65	10	43	2.2	138	0

SAN JUAN RIVER BASIN

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09365000 SAN JUAN RIVER AT FARMINGTON, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLORIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUORIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL PHOSPHORUS (P) (MG/L) (00605)	DIS- SOLVED ORTHOPHOSPHORUS (P) (MG/L) (00671)
JAN, 08...	--	--	--	--	--	--	--	--	--	--	--	--
JAN, 08...	60	3,2	.2	.18	.00	.18	.18	.02	.35	.55	.08	.01
FEB, 05...	--	--	--	--	--	--	--	--	--	--	--	--
FEB, 05...	80	4,8	.1	.14	.01	.15	.15	.06	.17	.38	.04	.03
MAR, 05...	150	9,9	.4	.18	.00	.18	.18	.33	.19	.70	.14	.03
APR, 02...	--	--	--	--	--	--	--	--	--	--	--	--
APR, 02...	120	8,0	.4	.07	.00	.08	.07	.07	.24	.39	.05	.00
MAY, 07...	--	--	--	--	--	--	--	--	--	--	--	--
MAY, 07...	100	6,1	.3	.08	.00	.09	.08	.05	.32	.46	.08	.00
JUNE, 13...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE, 13...	110	6,5	.3	.03	.00	.09	.03	.00	.47	.56	.03	.01
JULY, 18...	--	--	--	--	--	--	--	--	--	--	--	--
JULY, 18...	330	8,9	.4	.28	.01	.37	.29	.05	4,5	4,9	1,8	.00
AUG, 20...	140	8,0	.2	--	--	--	.08	--	--	--	--	--
SEP, 26...	160	12	.3	.17	.00	.23	.17	.26	.37	.86	.14	.08
OCT, 23...	220	12	.4	--	--	--	.26	--	--	--	--	--
NOV, 21...	160	8,5	--	--	--	--	.23	--	--	--	--	--
DEC, 17...	160	8,2	.2	--	--	--	.28	--	--	--	--	--

DATE	DIS- SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CARBONATE HARD- NESS (MG/L) (00902)	SODIUM ADSORPTION RATIO (00931)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	AIR TEMPERATURE (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	DIS- SOLVED OXYGEN (MG/L) (00300)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN, 08...	--	--	--	--	--	504	8,3	4,0	4,5	10,0	3,8	--
JAN, 08...	203	190	110	31	.9	325	8,2	4,0	5,5	9,7	3,1	20
FEB, 05...	--	--	--	--	--	--	8,5	.0	2,5	10,6	3,8	--
FEB, 05...	234	220	130	38	.9	360	8,1	.0	3,0	10,6	3,5	50
MAR, 05...	335	338	180	75	1,2	520	8,4	10,0	7,0	9,5	4,5	50
APR, 02...	--	--	--	--	--	--	8,6	5,0	8,5	9,5	4,4	--
APR, 02...	289	284	150	61	1,1	445	8,8	5,0	7,5	9,3	4,0	30
MAY, 07...	--	--	--	--	--	--	8,5	26,0	18,5	7,9	5,6	--
MAY, 07...	269	248	150	60	.8	407	8,6	26,0	18,0	8,4	3,8	50
JUNE, 13...	--	--	--	--	--	--	8,4	33,0	23,0	7,3	2,9	--
JUNE, 13...	275	267	160	70	.9	428	8,6	33,0	22,0	7,3	4,8	40
JULY, 18...	--	--	--	--	--	904	7,7	21,0	19,0	6,9	110	--
JULY, 18...	647	614	280	170	2,2	937	7,6	21,0	18,5	6,9	97	100
AUG, 20...	--	333	180	66	1,3	504	8,2	29,0	21,0	--	--	50
SEP, 26...	397	387	220	95	1,2	612	8,7	27,0	17,0	8,4	4,5	50
OCT, 23...	--	474	210	80	2,2	750	8,1	15,0	12,0	10,0	--	50
NOV, 21...	--	369	200	87	1,4	598	8,3	15,0	6,5	10,4	--	50
DEC, 17...	--	368	200	87	1,3	587	8,2	6,0	4,0	11,1	--	50

SAN JUAN RIVER BASIN

09365000 SAN JUAN RIVER AT FARMINGTON, N. MEX.--Continued

TRACE ELEMENT ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORDN (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)
APR. 02...	1630	0	0	30	0	0	3
SEP. 26...	1700	2	0	50	0	0	2

DATE	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
APR. 02...	10	<100	13	.0	0	0	10
SEP. 26...	10	100	10	.2	1	1	10

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	CROSS SECTION LOC- ATION (FT) (00001)	FECAL COLI- FORM (COL. PER 100 ML) (31616)
JAN. 08...	1445	60	7300
08...	1520	20	72
FEB. 05...	1230	60	6000
05...	1300	20	26
MAR. 05...	1530	60	18000
05...	1615	20	57
APR. 02...	1545	60	25000
02...	1630	20	66
MAY 07...	1645	60	15000
07...	1720	20	72
JUNE 13...	1700	60	30000
13...	1800	20	39
JULY 18...	0915	60	31000
18...	0945	20	7400

SAN JUAN RIVER BASIN

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09365000 SAN JUAN RIVER AT FARMINGTON, N. MEX.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	387	377	598	463	437	368	598	524	542	604	688	623
2	360	385	611	488	425	388	593	676	560	626	744	620
3	386	399	673	481	445	415	618	932	533	691	746	638
4	393	350	567	457	427	447	621	742	530	---	692	657
5	377	374	544	457	412	447	624	655	521	---	681	670
6	404	385	538	457	427	420	625	562	521	697	691	663
7	383	419	536	451	424	450	638	548	515	703	676	656
8	390	391	520	444	412	473	729	529	525	722	675	647
9	396	384	522	537	416	482	687	656	521	728	688	649
10	427	341	569	545	363	490	653	653	512	741	670	647
11	386	414	541	522	345	510	646	546	520	942	667	646
12	405	434	515	444	328	474	626	534	513	892	636	651
13	408	465	514	434	332	430	618	519	519	1050	655	639
14	417	457	511	434	342	399	950	516	532	753	653	633
15	432	487	521	434	368	386	2030	521	562	700	642	627
16	430	437	587	414	345	378	704	514	591	673	636	653
17	426	521	515	435	329	404	960	523	604	651	641	639
18	423	505	518	440	326	423	885	519	616	660	651	651
19	430	531	499	440	349	466	885	529	596	660	716	652
20	429	549	499	444	342	---	665	534	598	656	765	621
21	441	531	482	444	372	482	581	524	592	644	647	628
22	445	432	488	450	431	492	676	494	581	670	655	627
23	429	424	452	434	425	490	575	508	605	778	651	611
24	426	510	449	456	418	492	556	532	612	851	676	619
25	392	511	482	462	416	501	552	552	637	685	638	625
26	400	397	478	462	407	514	555	558	601	679	627	622
27	417	455	474	471	347	552	566	524	599	1330	629	621
28	418	524	515	444	347	550	557	543	614	791	637	620
29	418	---	452	434	336	560	555	540	595	766	642	613
30	416	---	470	444	333	569	564	534	596	746	621	623
31	416	---	445	---	333	---	532	---	---	685	---	621
MONTH	410	442	518	457	379	464	698	568	565	751	667	636
YEAR	MAX	2030	MIN	326	MEAN	546						

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(ONCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	3.0	6.0	11.0	10.5	16.5	17.0	22.0	24.5	18.0	14.0	9.0	3.0
2	4.0	6.5	9.0	8.0	17.5	16.5	24.0	21.5	19.0	17.0	9.0	4.0
3	1.5	5.5	8.0	8.5	17.5	15.0	26.5	22.0	22.0	18.0	7.0	5.0
4	4.0	5.0	8.0	10.0	18.0	19.5	28.5	18.0	20.0	---	7.0	5.5
5	5.0	4.5	9.0	6.0	17.0	18.5	27.0	24.0	20.0	---	9.0	6.5
6	5.0	4.0	10.0	10.0	13.5	17.0	23.0	24.0	21.0	17.0	9.0	5.0
7	4.5	4.0	8.0	12.0	13.5	17.0	25.0	24.0	20.0	16.0	9.0	2.5
8	7.0	4.0	6.0	9.0	14.5	16.0	27.5	23.5	18.0	---	9.0	4.0
9	7.0	4.0	7.0	10.5	15.0	19.0	24.0	20.5	21.0	---	9.0	3.5
10	6.5	4.0	7.0	10.0	15.5	15.5	28.0	22.0	22.0	---	8.0	2.5
11	4.5	5.0	9.0	8.0	12.5	17.0	21.0	22.5	22.0	---	8.0	3.0
12	3.5	6.0	10.5	12.0	16.0	23.0	20.5	23.0	19.0	---	7.0	3.0
13	4.0	6.0	11.0	6.5	12.0	23.5	28.5	23.0	20.0	---	7.0	0.0
14	6.5	8.0	11.0	12.0	16.0	17.5	27.0	26.5	18.0	---	8.0	1.0
15	5.5	7.0	12.0	13.0	16.0	20.0	22.5	21.5	16.0	---	8.0	1.0
16	5.5	3.0	8.0	13.5	17.0	20.0	22.5	23.0	17.0	---	8.0	3.0
17	4.5	4.0	13.0	14.5	13.5	19.0	25.0	23.5	15.0	0.0	7.0	3.5
18	3.0	4.5	12.0	14.0	16.5	18.5	25.0	18.0	16.0	15.0	9.0	3.0
19	5.0	6.5	13.0	12.5	13.5	24.5	23.0	20.0	19.0	14.0	8.0	3.0
20	6.0	6.5	12.0	8.0	14.0	---	22.0	22.0	18.0	13.0	7.0	2.0
21	5.0	6.0	10.5	14.0	11.0	24.5	24.0	19.0	18.0	14.0	7.0	3.0
22	5.0	7.0	7.5	15.5	18.0	20.0	22.0	22.0	19.0	13.0	7.0	3.0
23	2.5	5.0	11.0	13.0	17.0	22.0	24.5	22.5	18.0	14.0	7.0	1.0
24	5.0	3.5	12.0	12.0	17.0	24.0	24.5	20.0	18.0	12.0	7.0	0.0
25	2.0	5.5	11.5	17.5	14.0	23.0	23.0	16.0	17.0	12.0	7.0	0.5
26	3.0	4.0	11.5	16.0	18.0	26.0	23.0	15.5	18.0	12.0	6.0	1.0
27	3.0	8.5	13.0	11.5	19.0	25.0	24.0	24.0	15.0	10.0	6.0	1.5
28	3.5	9.0	13.0	11.5	15.0	24.0	20.0	21.0	14.0	10.0	4.5	0.0
29	5.0	---	13.5	15.0	15.0	25.0	26.0	22.0	15.0	8.0	4.0	2.0
30	2.0	---	14.0	17.0	17.5	26.5	24.0	21.0	15.0	8.0	4.0	1.0
31	5.0	---	12.0	---	13.0	---	24.5	---	---	8.0	---	1.0
MONTH	4.5	5.5	10.5	11.5	15.5	20.5	24.5	21.5	18.5	---	7.5	2.5
YEAR	MAX	28.5	MIN	0.0	MEAN	13.0						

09368000 SAN JUAN RIVER AT SHIPROCK, N. MEX.
(National stream-quality accounting network,
surveillance, and radiochemical network station)

LOCATION.--Lat 36°47'32", long 108°43'54", in NW¼ sec.27, T.30 N., R.18 W., San Juan County, at gaging station 3 mi (5 km) west of Shiprock, 6 mi (10 km) downstream from Chaco River, and at mile 215.0 (345.9 km) (revised).

DRAINAGE AREA.--12,900 mi² (33,400 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: February 1941 to September 1945, July 1957 to current year.

Water temperatures: December 1950 to current year.

Sediment records: December 1950 to current year.

EXTREMES:

Current year:

Dissolved solids: Maximum, 1,060 mg/l Aug. 4-5; minimum, 248 mg/l Feb. 8-12.

Hardness: Maximum, 420 mg/l Aug. 4-5; minimum, 120 mg/l Feb. 8-12.

Specific conductance: Maximum daily, 1,510 micromhos Aug. 4-5; minimum daily, 375 micromhos May 18.

Water temperatures: Maximum, 27.0°C June 27; minimum, freezing point on several days during January, February, and December.

Sediment concentrations: Maximum daily, 66,100 mg/l Aug. 5; minimum daily, 13 mg/l Aug. 21.

Sediment discharge: Maximum daily, 870,000 tons (789,000 tonnes) Oct. 28; minimum daily, 7.8 tons (7.1 tonnes) Aug. 21.

Period of record:

Dissolved solids (1941-45, 1957-74): Maximum, 2,980 mg/l July 30, 31, 1959; minimum, 115 mg/l June 21-28, 30, 1944.

Hardness (1941-45, 1957-74): Maximum, 1,100 mg/l July 30, 31, 1959; minimum, 70 mg/l June 21-28, 30, 1944.

Specific conductance (1957-74): Maximum daily, 4,360 micromhos July 31, 1959; minimum daily, 188 micromhos June 6, 1958.

Water temperatures: Maximum, 34.0°C July 20, 1968; minimum, freezing point on many days during winter months of most years.

Sediment concentrations: Maximum daily, 114,000 mg/l Aug. 11, 1967; minimum daily, 2 mg/l May 4, 1963.

Sediment discharge: Maximum daily, 2,000,000 tons (1,810,000 tonnes) Aug. 11, 1967; minimum daily, 1 ton (.91 tonne) on several days during July and September 1959, September 1962, May and July 1963.

CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- CHARGE (CF8) (00060)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (K) (MG/L) (00930)	DIS- SOLVED TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)
JAN.												
01-31	2020	11	--	53	11	33	2.5	123	0	130	11	.3
FEB.												
01-07	1840	7.1	--	49	10	34	2.1	110	2	130	10	.3
08-12	1830	3.8	--	31	10	33	1.9	48	5	130	9.7	.2
13-28	1290	3.4	--	40	13	50	2.2	50	5	190	15	.3
MAR.												
01-12	1420	10	--	68	14	53	2.8	146	0	200	15	.3
13-31	1430	8.8	--	61	13	40	2.5	133	0	160	12	.2
APR.												
01-09	1190	7.2	--	56	12	40	2.4	121	0	150	11	1.3
10-12	876	8.7	--	69	14	49	2.7	141	0	190	15	1.1
13-30	1020	8.2	--	57	12	41	2.4	128	0	150	12	1.3
MAY												
01-09	1350	9.8	--	57	11	34	2.3	125	0	140	10	.3
10-20	2890	8.8	--	50	8.2	23	1.8	105	0	110	7.6	.3
21-26	1480	9.2	--	59	11	33	2.2	122	0	140	12	.3
27-31	2480	8.0	--	48	7.9	23	1.8	101	0	110	8.8	.3
JUNE												
01-03	1990	7.5	--	51	9.5	28	2.2	106	0	130	11	.3
04-12	1030	8.7	--	65	13	41	2.8	133	0	170	14	.3
13-19	1250	7.7	--	56	9.7	32	2.4	119	0	140	11	.4
20-27	712	8.0	--	68	13	43	2.7	136	0	190	15	.3
28-30	470	3.4	--	74	16	56	3.1	143	0	220	18	.5
JULY												
01-15	217	--	--	74	23	84	3.4	108	0	310	24	.4
16-24	1780	6.2	--	88	9.8	74	4.0	152	0	260	17	.5
25-31	581	2.2	--	57	12	55	3.0	90	4	210	15	.3
AUG.												
01-03	391	12	--	84	16	69	3.9	169	0	250	16	.3
04-05	820	12	--	140	17	190	6.6	288	0	520	27	.9
06-31	324	12	--	88	16	76	4.3	167	0	290	19	.5
SEP.												
01-30	404	15	--	87	17	74	3.4	161	0	290	18	.5
OCT.												
01-31	1030	37	--	78	8.7	120	5.1	203	0	300	21	1.3
NOV.												
01-30	912	11	--	91	17	66	3.4	174	0	250	21	.4
DEC.												
01-31	872	10	--	82	16	58	3.0	165	0	230	20	.3
CALENDAR YEAR												
WTD. AVG.	--	11	--	64	12	51	2.8	133	0	185	14	.5
TIME WTD.												
AVG.	1120	12	--	70	13	59	3.1	141	0	214	16	.5
TOT. LOAD (TONS)	--	12200	--	70700	13400	56200	3140	148000	516	205000	15600	527
WATER YEAR												
WTD. AVG.	--	9.4	--	56	11	38	2.4	121	0	149	11	.4
TIME WTD.												
AVG.	1410	9.6	--	62	13	46	2.7	127	0	179	13	.4
TOT. LOAD (TONS)		13000	--	77600	15200	52700	3330	168000	516	206000	15200	554

09368000 SAN JUAN RIVER AT SHIPROCK, N. MEX.--Continued

CHEMICAL ANALYSES, COMPOSITES OF DAILY SAMPLES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED SOLIDS (RESI- 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF TUENTS) (MG/L) (70301)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (70303)	DIS- SOLVED SOLIDS (TONS PER DAY) (70302)	HARD- NESS (CA, MG) (MG/L) (00900)	NUN- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)
JAN.												
01-31	.38	--	50	--	314	.43	1710	180	77	1.1	487	8.0
FEB.												
01-07	.17	--	70	--	300	.41	1490	160	70	1.2	499	8.4
08-12	.00	--	50	--	248	.34	1230	120	71	1.3	408	8.9
13-28	.04	--	--	--	344	.47	1200	150	100	1.8	563	9.0
MAR.												
01-12	.49	--	80	--	437	.59	1680	230	110	1.5	696	8.0
13-31	.28	--	60	--	364	.50	1410	210	97	1.2	581	8.1
APR.												
01-09	.17	--	80	--	340	.46	1090	190	90	1.3	552	8.2
10-12	.31	--	120	--	421	.57	996	230	110	1.4	648	8.2
13-30	.17	--	60	--	348	.47	958	190	87	1.3	565	8.2
MAY												
01-09	.30	--	50	--	327	.44	1190	190	85	1.1	533	7.9
10-20	.34	--	90	--	263	.36	2050	160	73	.8	420	7.8
21-26	.29	--	160	--	328	.45	1310	190	93	1.0	537	8.0
27-31	.24	--	50	--	259	.35	1730	150	70	.8	418	7.9
JUNE												
01-03	.02	--	80	--	292	.40	1570	170	80	.9	451	7.9
04-12	.28	--	120	--	382	.52	1060	220	110	1.2	597	8.0
13-19	.41	--	100	--	320	.44	1080	180	82	1.0	524	7.9
20-27	.15	--	60	--	406	.55	781	220	110	1.3	633	8.1
28-30	.19	--	70	--	462	.63	586	250	130	1.5	733	8.2
JULY												
01-15	.08	--	110	--	--	--	357	280	190	2.2	929	8.0
16-24	.24	--	120	--	536	.73	2580	260	140	2.0	838	8.2
25-31	.00	--	80	--	434	.59	681	190	110	1.7	665	8.5
AUG.												
01-03	.73	--	20	--	538	.73	568	280	140	1.8	820	8.1
04-05	1.1	--	700	--	1060	1.44	2350	420	180	4.0	1550	8.2
06-31	.92	--	90	--	592	.81	518	290	150	2.0	889	8.1
SEP.												
01-30	.03	--	230	--	585	.80	638	290	160	1.9	887	8.1
OCT.												
01-31	.06	--	90	--	671	.91	1870	230	63	3.4	1010	7.5
NOV.												
01-30	.77	--	--	--	549	.75	1350	300	160	1.7	840	7.9
DEC.												
01-31	.68	--	--	--	504	.69	1190	270	140	1.5	787	8.0
CALENDAR YEAR												
TD. AVG.	.32	--	85	--	407	.56	--	210	100	1.5	640	8.1
TIME WTD.												
AVG.	.34	--	100	--	454	.62	--	231	114	1.7	715	8.1
TOT. LOAD (TONS)	357	--	77	--	448000	--	--	--	--	--	--	--
WATER YEAR												
WTD. AVG.	.31	--	74	--	337	.46	--	187	86	1.2	537	8.2
TIME WTD.												
AVG.	.31	--	91	--	382	.52	--	207	102	1.4	613	8.2
TOT. LOAD (TONS)	430	--	103	--	467000	--	--	--	--	--	--	--

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFRS) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
JAN.										
08...	1100	2430	11	10	--	48	10	30	2.2	123
FEB.										
05...	0845	1920	11	30	--	54	11	34	2.4	128
MAR.										
05...	1000	1390	10	20	--	71	14	60	2.8	147
APR.										
03...	1130	1350	8.6	10	--	60	11	42	2.6	131
MAY										
07...	1130	1500	7.9	10	--	56	10	32	2.1	122
JUNE										
13...	1100	1010	8.2	0	--	68	13	41	2.7	140
JULY										
17...	1700	2210	11	30	--	95	9.7	120	5.3	181
AUG.										
21...	1115	353	7.7	40	--	95	23	77	3.8	177
SEP.										
26...	1100	568	10	30	2100	83	15	82	4.0	179
OCT.										
24...	1030	1660	10	30	--	87	8.7	100	4.9	186
NOV.										
21...	1130	728	9.1	10	--	110	17	74	3.3	193
DEC.										
18...	1030	842	10	10	0	82	18	58	2.6	168

SAN JUAN RIVER BASIN

09368000 SAN JUAN RIVER AT SHIPROCK, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	CAR- BONATE (CU3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRATE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA GEN- (N) (MG/L) (00610)
JAN, 08...	0	110	8.8	.3	.36	.00	.36	.36	.05
FEB, 05...	0	130	10	.5	.35	.01	.36	.36	.06
MAR, 05...	0	220	17	.4	.48	.00	.49	.48	.89
APR, 03...	0	160	14	.4	.25	.00	.26	.25	.10
MAY, 07...	0	140	9.8	.4	.23	.00	.26	.23	.07
JUNE, 13...	0	170	14	.5	.27	.01	.30	.28	.08
JULY, 17...	0	380	13	.5	.44	.03	1.0	.47	.05
AUG, 21...	2	300	19	.4	.66	.01	.68	.67	.04
SEP, 26...	--	270	19	.4	.70	.01	.84	.71	.12
OCT, 24...	0	290	19	.5	.66	.01	.67	.67	.04
NOV, 21...	0	300	23	.3	.60	.00	.62	.60	.08
DEC, 18...	0	230	18	.3	.54	.01	.86	.55	.11

DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)
JAN, 08...	.47	.88	.04	.03	290	283	160	60	1.0
FEB, 05...	.22	.64	.11	.09	342	318	180	75	1.1
MAR, 05...	.10	1.5	.29	.02	481	470	240	110	1.7
APR, 03...	.36	.72	.06	.03	376	364	200	88	1.3
MAY, 07...	.51	.84	.12	.02	337	320	180	81	1.0
JUNE, 13...	.57	.95	.17	.03	413	388	220	110	1.2
JULY, 17...	1.9	2.9	2.5	.01	753	726	280	130	3.1
AUG, 21...	1.1	1.8	.05	.04	669	618	330	180	1.8
SEP, 26...	5.1	6.0	.85	.04	590	577	270	120	2.2
OCT, 24...	14	15	6.4	.02	640	616	250	96	2.7
NOV, 21...	.17	.87	.15	.01	650	635	340	190	1.7
DEC, 18...	.66	1.6	.13	.06	543	504	280	140	1.5

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MMHS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN, 08...	453	8.1	5.0	3.0	--	11.1	--	3.4	40
FEB, 05...	517	8.5	7.0	1.0	--	10.8	--	3.6	70
MAR, 05...	728	8.4	2.0	4.0	--	10.8	--	7.0	100
APR, 03...	573	8.6	7.5	6.0	--	11.4	--	4.0	40
MAY, 07...	514	8.2	23.0	16.0	--	8.4	--	4.5	120
JUNE, 13...	636	8.2	32.5	18.5	--	8.5	--	4.6	140
JULY, 17...	1070	7.5	33.0	25.0	--	--	--	95	110
AUG, 21...	940	8.6	27.5	20.0	40	9.8	12	4.5	100
SEP, 26...	885	8.1	19.0	15.5	1400	7.7	10	26	120
OCT, 24...	938	8.1	12.0	11.0	7200	--	400	110	80
NOV, 21...	938	8.4	10.0	7.0	40	10.5	6	6.8	90
DEC, 18...	789	8.2	3.5	.5	30	12.1	11	5.7	70

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TRACE ELEMENT AND RADIOCHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L) (01002)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	DIS- SOLVED COBALT (CO) (UG/L) (01035)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)
APR, 03...	1130	--	--	40	--	--	--	--	--
SEP, 26...	1100	36	2	120	0	0	0	2	76000
DEC, 18...	1030	2	1	70	0	<10	1	15	3100

DATE	TIME	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE- NIUM (SE) (UG/L) (01147)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
APR, 03...	10	--	--	--	--	--	--	--	--	--
SEP, 26...	30	300	0	2100	.2	--	1	3	--	--
DEC, 18...	10	<100	0	0	<.1	<.1	2	1	0	0

DATE	TIME	DIS- SOLVED GROSS ALPHA AS U-NAT, (UG/L) (80030)	SUS- PENDE GROSS ALPHA AS U-NAT, (UG/L) (80040)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L) (03515)	SUS- PENDE GROSS BETA AS CS-137 (PC/L) (03516)	DIS- SOLVED GROSS BETA AS AS SR90 /Y90 (PC/L) (80050)	SUS- PENDE GROSS BETA AS AS SR90 /Y90 (PC/L) (80060)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DIS- SOLVED NATURAL URANIUM (U) (UG/L) (22703)
APR, 03...	5.6	4.3	5.0	5.7	4.2	4.9	.07	1.7	
SEP, 26...	16	290	9.4	170	7.6	140	.10	2.6	
DEC, 18...	--	--	--	--	--	--	--	--	--

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL PHYTO- PLANK- TON (CELLS PER ML) (60050)	CHLORO- PHYLL A (UG/L) (32230)	CHLORO- PHYLL B (UG/L) (32231)	FECAL COLI- FORM (COL, PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)
JAN, 08...	1100	--	--	--	710	--
FEB, 05...	0845	--	--	--	900	--
MAR, 05...	1000	--	--	--	3400	--
APR, 03...	1130	--	--	--	680	--
MAY 07...	1130	--	--	--	840	--
JUNE 13...	1100	--	--	--	220	--
JULY 17...	1700	--	--	--	13000	--
AUG, 21...	1115	--	--	--	180	680
SEP, 26...	1100	--	--	--	9000	3300
OCT, 24...	1030	8500	--	--	19000	8200
NOV, 21...	1130	1800	--	--	1600	260
DEC, 18...A	1030	4600	4.1	.7	2400	1200

A PERIPHYTON, BIOMASS, DRY WEIGHT, TOTAL (G/SQ M)(00573) 3.8
 PERIPHYTON, BIOMASS, ASH WEIGHT (G/SQ M)(00572) 3.1

SAN JUAN RIVER BASIN

09368000 SAN JUAN RIVER AT SHIPROCK, N. MEX.--Continued

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

PHYTOPLANKTON

DATE	PHYLUM ..Class ...Order ...Family....Genus.....Species	COMMON NAME	PERCENT OF TOTAL
OCT 24...	CHRYSTOPHYTA ..Bacillariophyceae....Navicula (Codominant) ....Diatoma (Codominant) ....Frustulia (Codominant) ....Cyclotella (Codominant)		33 33 17 17
NOV 21...	CYANOPHYTA ..Myxophyceae....Oscillatoria	Blue-green algae	6
	CHRYSTOPHYTA ..Bacillariophyceae....Navicula (Codominant) ....Nitzschia (Codominant) ....Gomphonema....Cymbella....Synedra....Surirella....Cocconeis....Rhoicosphenia....Diatoma	Diatoms	28 18 10 8 8 6 6 5 5
	..Chrysophyceae....Dinobryon	Golden or yellow-brown algae	1
DEC 18...	CHRYSTOPHYTA ..Bacillariophyceae....Navicula (Codominant) ....Diatoma (Codominant) ....Surirella....Gomphonema....Rhoicosphenia....Synedra....Nitzschia....Cymbella....Cocconeis		36 19 14 10 7 7 2 2 2

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(UNCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	448	523	732	500	555	403	719	816	963	821	1200	764
2	417	512	728	499	566	448	797	797	1040	825	955	782
3	436	486	734	506	572	493	790	801	1040	817	921	782
4	444	499	709	565	545	556	889	1510	946	817	850	827
5	446	456	693	568	536	578	915	1510	946	909	848	827
6	446	469	678	559	495	526	909	842	912	911	821	829
7	451	467	668	561	508	545	966	769	911	1030	819	798
8	439	413	660	558	486	576	918	873	811	1030	838	796
9	454	387	652	558	475	632	920	854	854	1030	837	792
10	480	412	613	681	470	631	976	805	941	1030	---	791
11	471	410	658	699	410	672	1050	798	939	972	---	774
12	471	419	648	605	398	686	1050	831	903	974	791	774
13	520	494	603	543	392	511	1140	777	898	1200	805	776
14	526	495	485	540	398	510	1140	848	944	1200	803	776
15	510	605	603	540	442	500	913	950	944	960	782	771
16	519	566	605	546	450	491	829	950	863	864	777	762
17	520	564	622	533	403	501	839	894	860	862	778	775
18	504	589	591	550	375	522	856	894	887	858	781	775
19	520	549	598	547	431	538	719	890	885	843	896	759
20	529	604	590	548	402	580	758	890	863	841	896	758
21	538	585	574	554	455	---	752	989	840	1020	924	720
22	547	569	575	550	523	620	838	981	823	1020	921	722
23	531	546	556	557	554	617	882	---	824	929	796	727
24	508	517	554	567	547	634	743	877	811	932	794	730
25	509	533	559	594	537	646	580	984	816	839	766	729
26	499	508	550	599	561	662	616	995	827	840	778	725
27	507	538	545	579	486	654	613	968	813	1130	780	729
28	497	605	549	535	403	683	691	971	769	1130	776	731
29	497	---	593	537	392	729	670	912	817	808	774	721
30	500	---	595	536	397	740	668	908	818	808	764	721
31	497	---	527	---	388	---	719	968	---	825	---	743
MONTH	490	511	614	560	469	582	833	928	884	939	838	764
YEAR	MAX	1510	MIN	375	MEAN	701						

SAN JUAN RIVER BASIN

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09368000 SAN JUAN RIVER AT SHIPROCK, N. MEX.--Continued

TEMPERATURE (DEG. C) OF WATER, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974
(UNCE-DAILY)

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.0	4.0	7.0	11.0	17.0	19.0	26.0	25.0	23.0	18.0	9.0	3.0
2	1.0	4.0	8.0	9.0	17.0	20.0	25.0	25.0	23.0	16.0	8.0	4.0
3	0.0	2.0	8.0	7.0	18.0	20.0	26.0	24.0	22.0	17.0	7.0	4.0
4	0.0	4.0	8.0	7.0	19.0	21.0	26.0	24.0	22.0	17.0	7.0	3.0
5	1.0	3.0	9.0	9.0	19.0	---	26.0	24.0	22.0	16.0	8.0	3.0
6	1.0	3.0	9.0	13.0	19.0	19.0	25.0	24.0	23.0	16.0	8.0	4.0
7	2.0	0.0	9.0	14.0	20.0	17.0	25.0	24.0	23.0	17.0	7.0	3.0
8	5.0	0.0	9.0	14.0	20.0	16.0	25.0	24.0	22.0	18.0	7.0	3.0
9	5.0	3.0	9.0	14.0	21.0	20.0	26.0	25.0	22.0	16.0	8.0	2.0
10	5.0	2.0	5.0	9.0	20.0	21.0	26.0	25.0	22.0	15.0	---	2.0
11	3.0	2.0	8.0	9.0	18.0	23.0	25.0	24.0	21.0	15.0	---	2.0
12	1.0	4.0	8.0	12.0	19.0	24.0	25.0	24.0	20.0	16.0	8.0	1.0
13	2.0	2.0	9.0	11.0	16.0	23.0	25.0	24.0	19.0	15.0	8.0	1.0
14	2.0	5.0	10.0	12.0	16.0	23.0	25.0	23.0	19.0	14.0	8.0	1.0
15	3.0	6.0	11.0	14.0	18.0	24.0	25.0	23.0	18.0	15.0	8.0	1.0
16	2.0	8.0	14.0	17.0	17.0	24.0	24.0	24.0	18.0	15.0	8.0	1.0
17	2.0	4.0	12.0	16.0	15.0	24.0	24.0	23.0	15.0	14.0	8.0	1.0
18	1.0	6.0	13.0	13.0	17.0	24.0	24.0	22.0	17.0	15.0	8.0	2.0
19	3.0	4.0	12.0	14.0	16.0	25.0	24.0	23.0	19.0	14.0	7.0	2.0
20	3.0	4.0	10.0	13.0	14.0	26.0	25.0	22.0	20.0	14.0	7.0	2.0
21	5.0	4.0	9.0	13.0	18.0	---	24.0	23.0	18.0	13.0	7.0	2.0
22	1.0	6.0	10.0	16.0	18.0	25.0	24.0	24.0	19.0	13.0	6.0	2.0
23	2.0	3.0	14.0	13.0	18.0	26.0	25.0	23.0	20.0	13.0	6.0	1.0
24	2.0	3.0	13.0	12.0	18.0	26.0	25.0	22.0	19.0	13.0	6.0	1.0
25	3.0	4.0	13.0	13.0	20.0	26.0	25.0	23.0	22.0	13.0	6.0	1.0
26	3.0	7.0	13.0	14.0	21.0	25.0	25.0	24.0	21.0	13.0	6.0	0.0
27	1.0	7.0	13.0	16.0	21.0	27.0	25.0	24.0	15.0	11.0	5.0	0.0
28	2.0	8.0	11.0	16.0	18.0	26.0	25.0	24.0	15.0	12.0	5.0	0.0
29	1.0	---	14.0	15.0	19.0	26.0	25.0	24.0	18.0	10.0	4.0	1.0
30	2.0	---	15.0	14.0	21.0	---	26.0	24.0	20.0	9.0	4.0	1.0
31	3.0	---	12.0	---	21.0	---	26.0	24.0	---	9.0	---	0.0
MONTH	2.0	4.0	10.5	12.5	18.5	23.0	25.0	23.5	20.0	14.5	7.0	2.0
YEAR	MAX	27.0	MIN	0.0	MEAN	13.5						

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2350	650	4120	1820	190	934	1390	560	2100
2	2270	1060	6500	1860	147	738	1510	550	2240
3	2150	410	2380	1850	181	904	1480	655	2620
4	2100	1270	7200	1820	147	722	1460	535	2110
5	2250	620	3770	1900	304	1560	1410	620	2360
6	2410	315	2050	1900	200	1030	1280	700	2420
7	2430	237	1550	1760	341	1620	1330	316	1130
8	2370	405	2590	1790	120	580	1370	440	1630
9	2370	290	1860	1800	80	369	1390	610	2290
10	2430	240	1570	1840	60	298	1500	460	1860
11	2390	420	2710	1920	60	311	1480	635	2540
12	2090	300	1690	1820	48	236	1440	516	2010
13	2000	350	1890	1390	150	140	1410	220	838
14	1970	400	2130	1320	70	249	1430	230	888
15	1840	640	3180	1330	161	578	1500	430	1740
16	1760	190	903	1350	190	693	1560	1380	5810
17	1760	140	665	1290	119	414	1590	2240	9620
18	1800	160	778	1240	147	492	1530	1260	5210
19	1820	155	762	1230	98	325	1510	950	3870
20	1820	120	590	1260	270	919	1410	550	2090
21	1850	435	2170	1240	100	335	1380	240	894
22	1840	300	1490	1240	50	167	1370	141	522
23	1800	400	1940	1210	47	154	1370	210	777
24	1800	220	1070	1210	50	163	1440	130	505
25	1800	200	972	1240	37	124	1470	160	635
26	1790	158	764	1270	110	377	1440	168	653
27	1910	204	1050	1370	1040	3850	1430	140	541
28	1880	155	787	1380	495	1840	1390	112	420
29	1840	75	373	---	---	---	1350	203	740
30	1880	70	355	---	---	---	1350	425	1550
31	1800	64	311	---	---	---	1310	297	1050
TOTAL	62570	--	60170	42650	--	20152	44280	--	63663

SAN JUAN RIVER BASIN

09368000 SAN JUAN RIVER AT SHIPROCK, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1370	107	396	1060	49	140	2590	310	2170
2	1330	85	305	1080	103	323	1880	200	1020
3	1280	107	370	994	37	99	1510	60	245
4	1300	80	281	1120	50	151	1220	74	244
5	1200	70	227	1350	478	1830	1150	90	279
6	1130	70	214	1570	280	1190	1300	153	537
7	1090	92	271	1520	190	780	1160	113	354
8	1080	178	519	1670	220	992	1100	68	202
9	930	149	374	1820	886	4620	970	74	194
10	860	51	118	2570	1380	9580	867	87	204
11	788	33	70	3180	1470	12600	752	91	185
12	980	72	191	3380	1670	15200	788	130	277
13	1130	66	201	3400	1450	13300	1020	160	441
14	1130	142	433	3150	1210	10300	1290	207	721
15	1090	167	491	2230	590	3550	1290	120	418
16	1050	169	479	2120	170	973	1570	81	347
17	1030	66	184	2630	890	6320	1380	79	294
18	916	27	67	3520	1410	13400	1240	68	228
19	923	52	130	2550	900	6200	978	74	195
20	938	55	139	3050	560	4610	867	15	35
21	994	61	164	2120	210	1200	776	16	34
22	930	48	121	1440	300	1170	728	35	69
23	867	63	147	1300	170	597	734	65	129
24	830	49	110	1360	150	551	728	49	96
25	812	45	99	1430	180	695	669	35	63
26	848	113	259	1260	240	816	615	18	30
27	1080	172	507	1670	744	3670	580	15	23
28	1370	205	758	2690	720	5230	530	15	21
29	1280	91	314	2690	470	3410	480	17	22
30	1150	46	143	2630	360	2560	400	20	22
31	--	--	--	2730	440	3240	--	--	--
TOTAL	31706	--	8082	65284	--	129297	31162	--	9099
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	350	21	20	376	200	203	304	38	31
2	325	28	25	343	570	528	301	45	37
3	277	26	19	453	700	856	280	39	29
4	214	44	25	662	51700	99700	250	127	86
5	201	50	27	979	66100	180000	233	154	97
6	198	53	28	669	31800	57400	243	185	121
7	185	49	24	516	10300	14300	346	150	140
8	179	32	15	380	2690	2760	339	114	104
9	194	25	13	335	2060	1860	343	93	86
10	179	29	14	399	830	894	267	80	58
11	182	100	49	380	300	308	236	260	166
12	157	270	114	395	204	218	236	755	481
13	112	545	165	376	194	197	263	663	471
14	118	613	196	339	240	220	260	610	428
15	390	5790	17700	304	229	188	335	620	561
16	706	13200	25300	287	204	158	350	405	383
17	1720	18000	109000	273	197	145	419	294	333
18	3320	21100	197000	260	179	126	489	450	594
19	3160	8300	75700	287	166	129	516	520	724
20	1980	4720	28100	256	87	60	476	1100	1410
21	1570	7200	30500	223	13	7.8	484	1200	1570
22	1290	6400	22300	214	36	21	535	350	506
23	1370	17100	65700	217	57	33	507	200	274
24	860	4700	10900	243	53	35	580	370	579
25	758	1720	3520	277	47	35	565	350	534
26	686	1450	2690	290	36	28	585	3410	5600
27	620	1460	2440	357	51	54	555	390	584
28	600	640	1040	284	74	57	560	312	472
29	525	340	482	284	65	50	625	156	263
30	444	350	420	294	79	63	636	168	288
31	435	210	247	290	40	31	--	--	--
TOTAL	23305	--	593773	1242	--	360664.8	12118	--	17010

SAN JUAN RIVER BASIN

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09368000 SAN JUAN RIVER AT SHIPROCK, N. MEX.--Continued

SUSPENDED-SEDIMENT DISCHARGE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	620	140	234	1240	4750	15900	794	161	345
2	620	125	209	1220	7100	23400	806	172	374
3	580	116	182	1530	6870	28400	836	204	460
4	605	104	170	1160	2800	8770	848	254	582
5	620	86	144	1040	1390	3900	881	260	618
6	540	71	104	962	750	1950	954	285	734
7	498	480	645	916	925	2290	909	224	550
8	353	660	629	854	670	1540	930	215	540
9	318	230	197	867	540	1260	874	258	609
10	307	80	66	962	2730	7090	902	233	567
11	605	2270	3850	842	1220	2770	895	177	428
12	540	2380	3470	818	720	1590	916	177	438
13	1520	22900	109000	800	510	1100	895	205	495
14	1330	33400	131000	824	540	1200	867	228	534
15	686	8900	16500	923	630	1570	909	276	677
16	652	3920	7230	909	6280	15400	867	268	627
17	642	1550	2690	902	7250	17700	836	241	544
18	625	5200	5400	895	1600	3870	874	325	767
19	600	1440	2330	874	264	623	842	183	416
20	585	900	1420	674	267	486	830	281	630
21	610	23000	37900	722	380	741	842	950	2160
22	686	29500	58900	818	403	890	881	650	1550
23	1320	31500	112000	848	348	797	888	1300	3120
24	1720	25800	120000	842	324	737	895	1680	4060
25	1060	15800	45200	848	210	481	888	1190	2850
26	867	8000	18700	830	208	466	881	1230	2930
27	2460	37500	370000	812	254	557	840	1280	2900
28	5000	59500	870000	800	209	451	860	1250	2900
29	1840	20400	107000	830	197	441	860	1440	3340
30	2120	24800	142000	800	185	400	860	610	1420
31	1360	7300	26800	--	--	--	860	345	801
TOTAL	31889	--	2193970	27362	--	146770	27020	--	38966
CAL YR 1974	TOTAL WATER DISCHARGE (CFS-DAYS)								
CAL YR 1974	TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)								
WTR YR 1974	TOTAL WATER DISCHARGE (CFS-DAYS)								
WTR YR 1974	TOTAL SUSPENDED-SEDIMENT DISCHARGE (TONS)								

410588.0
3641616.8513597.0
1392262.80

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (MG/L) (000061)	SUS- PENDED SEDI- MENT DIS- CHARGE (MG/L) (80154)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN .002 MM (70337)	SUS. SED. FALL DIAM. % FINER THAN .004 MM (70338)	SUS. SED. FALL DIAM. % FINER THAN .016 MM (70340)	SUS. SED. FALL DIAM. % FINER THAN .062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN .125 MM (70343)
FEB.										
05...	0845	1.0	1920	245	1270	--	--	--	15	21
MAR.										
05...	1000	4.0	1390	746	2800	53	68	88	--	--
APR.										
03...	1130	6.0	1350	105	383	--	--	--	--	--
MAY										
07...	1130	16.0	1500	157	636	12	21	32	63	73
28...	1700	18.0	2650	771	5520	3	4	10	34	56
JUNE										
13...	1100	18.5	1010	213	581	17	19	25	61	83
JULY										
17...	1700	25.0	2210	37300	223000	44	57	83	99	99
AUG.										
05...	1700	24.0	800	49200	106000	66	80	95	100	--
SEP.										
26...	1000	15.5	555	4930	7390	51	64	78	--	--
OCT.										
13...	1700	15.0	2230	30200	182000	65	77	94	99	100
24...	1030	11.0	1660	22600	101000	--	--	--	--	--
27...	1700	11.0	1910	52600	271000	54	60	71	89	97
NOV.										
21...	1130	7.0	728	373	733	--	--	--	--	--
DEC.										
18...	1030	.5	842	362	823	--	--	--	--	--

SAN JUAN RIVER BASIN

09368000 SAN JUAN RIVER AT SHIPROCK, N. MEX.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	SUS. SED. FALL DIAM. % FINER THAN .250 MM (70344)	SUS. SED. FALL DIAM. % FINER THAN .500 MM (70345)	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM (70346)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM (70332)	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM (70333)	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM (70334)	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM (70336)
FEB. 05...	43	95	100	--	--	--	--	--	--
MAR. 05...	--	--	--	93	94	95	100	--	--
APR. 03...	--	--	--	70	74	83	97	100	--
MAY 07...	83	99	100	--	--	--	--	--	--
28...	78	100	--	--	--	--	--	--	--
JUNE 13...	95	100	--	--	--	--	--	--	--
JULY 17...	100	--	--	--	--	--	--	--	--
AUG. 05...	--	--	--	--	--	--	--	--	--
SEP. 26...	--	--	--	81	82	82	92	99	100
OCT. 13...	--	--	--	--	--	--	--	--	--
24...	--	--	--	92	--	--	--	--	--
27...	100	--	--	--	--	--	--	--	--
NOV. 21...	--	--	--	48	--	--	--	--	--
DEC. 18...	--	--	--	35	--	--	--	--	--

GILA RIVER BASIN

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09430600 MOGOLLON CREEK NEAR CLIFF, N. MEX.
(Hydrologic bench-mark station)

LOCATION.—Lat 33°10'00", long 108°38'57", in SE¼ sec.13, T.13 S., R.18 W., Grant County, at gaging station 12 mi (19 km) upstream from mouth, and 14.2 mi (23 km) north of Cliff.

DRAINAGE AREA.—69 mi² (179 km²).

PERIOD OF RECORD.—Chemical analyses: February 1967 to current year.
Sediment records: October 1968 to current year.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	DIS- SOLVED SILICA (SiO2) (MG/L) (00955)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)
FEB. 20...	0900	1.4	19	14	3.2	7.1	.7	51	0	17
MAR. 26...	1315	3.5	17	12	2.8	6.0	.9	44	0	15
APR. 24...	0830	1.7	19	13	2.4	7.4	.9	46	0	15
AUG. 28...	1500	2.1	22	15	2.3	7.2	.9	50	0	19
OCT. 17...	1730	9.2	19	11	.6	5.9	.6	35	0	16
DEC. 12...	1600	5.7	18	12	2.4	5.5	.6	36	0	19

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)
FEB. 20...	2.4	.6	.03	.02	91	89	48	6	.4
MAR. 26...	2.2	.5	.01	.03	62	78	42	5	.4
APR. 24...	2.0	.5	.03	.02	75	63	42	5	.5
AUG. 28...	1.4	.6	.00	.03	90	93	47	6	.5
OCT. 17...	1.5	.4	.01	.02	80	72	30	1	.5
DEC. 12...	2.2	.4	.00	.03	81	78	40	10	.4

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNIT8) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	CYANIDE (CN) (MG/L) (00720)
FEB. 20...	132	8.2	12.5	1.5	--	9.6	--	1.9	--
MAR. 26...	113	7.8	17.5	11.5	--	9.0	--	2.0	--
APR. 24...	118	7.8	17.5	10.5	--	9.2	--	5.6	.00
AUG. 28...	125	7.5	20.5	19.0	2	7.9	6	--	.00
OCT. 17...	100	8.4	16.5	13.0	--	9.0	--	3.7	.00
DEC. 12...	109	7.5	9.0	1.0	--	11.6	--	--	--

GILA RIVER BASIN

09430600 MOGOLLON CREEK NEAR CLIFF, N. MEX.--Continued

TRACE ELEMENT AND RADIOCHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L) (01002)	TOTAL IRON (FE) (UG/L) (01045)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MERCURY (HG) (UG/L) (71900)	TOTAL SELE- NIUM (SE) (UG/L) (01147)	DIS- SOLVED GROSS ALPHA AS U=NAT, (UG/L) (80030)
APR, 24...	0830	1	60	<100	.0	1	--
AUG, 28...	1500	0	80	<100	.0	0	--
OCT, 17...	1730	0	50	300	.0	0	<.4

DATE	TIME	SUS- PENDE GROSS ALPHA AS U=NAT, (UG/L) (80040)	DIS- SOLVED GROSS BETA AS CS=137 (PC/L) (03515)	SUS- PENDE GROSS BETA AS CS=137 (PC/L) (03516)	DIS- SOLVED GROSS BETA AS /Y90 (PC/L) (80050)	SUS- PENDE GROSS BETA AS SR90 /Y90 (PC/L) (80060)	DIS- SOLVED GROSS RA=226 (RADON METHOD) (PC/L) (09511)	DIS- SOLVED URANIUM (U) (UG/L) (80020)
APR, 24...	--	--	--	--	--	--	--	--
AUG, 28...	--	--	--	--	--	--	--	--
OCT, 17...	<.4	1.3	<.4	1.0	<.4	.01	.02	

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	IMME- DIATE COLI- FORM (COL. PER 100 ML) (31501)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOC (COL- ONIES PER 100 ML) (31679)
FEB, 20...	0900	1	0	1
MAR, 26...	1315	1	0	2
APR, 24...	0830	0	0	5
AUG, 28...	1500	67	4	21
OCT, 17...	1730	13	1	24
DEC, 12...	1600	0	0	1

PESTICIDE ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL ALDRIN (UG/L) (39330)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG) (39333)	TOTAL CHLOR- DANE (UG/L) (39350)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG) (39351)	TOTAL DDD (UG/L) (39360)	DDD IN BOTTOM MA- TERIAL (UG/KG) (39363)	TOTAL DDE (UG/L) (39365)	DDE IN BOTTOM MA- TERIAL (UG/KG) (39368)	TOTAL DDT (UG/L) (39370)
OCT, 17...	1730	.00	.0	.0	0	.00	.0	.00	.0	.00

DATE	TIME	DDT IN BOTTOM MA- TERIAL (UG/KG) (39373)	TOTAL DI- AZINON (UG/L) (39570)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG) (39571)	TOTAL DI- ELDRIN (UG/L) (39380)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG) (39383)	TOTAL ENDRIN (UG/L) (39390)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG) (39393)	TOTAL HEPTA- CHLOR (UG/L) (39410)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG) (39413)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L) (39420)
OCT, 17...		.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

GILA RIVER BASIN

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09430600 MOGOLLON CREEK NEAR CLIFF, N. MEX.--Continued

PESTICIDE ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG) (39423)	TOTAL LINDANE (UG/L) (39340)	LINDANE IN BOTTOM MA- TERIAL (UG/KG) (39343)	TOTAL MALA- THION (UG/L) (39530)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG) (39531)	TOTAL METHYL PARA- THION (UG/L) (39600)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG) (39601)	TOTAL PARA- THION (UG/L) (39540)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG) (39541)	TOTAL PCB (UG/L) (39516)
OCT, 17...	.0	.00	.0	.00	.0	.00	.0	.00	.0	.0

DATE	PCB IN BOTTOM MA- TERIAL (UG/KG) (39519)	TOTAL TOX- APHENE (UG/L) (39400)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG) (39403)	TOTAL 2,4-D (UG/L) (39730)	2,4-D IN BOTTOM MA- TERIAL (UG/KG) (39731)	TOTAL 2,4,5-T (UG/L) (39740)	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG) (39741)	TOTAL SILVEX (UG/L) (39760)	SILVEX IN BOTTOM MA- TERIAL (UG/KG) (39761)
OCT, 17...	0	0	0	.00	0	.00	0	.00	0

INSTANTANEOUS SUSPENDED SEDIMENT, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	SUS- PENDE SEDI- MENT CHARGE (MG/L) (80154)	SUS- PENDE SEDI- MENT CHARGE (T/DAY) (80155)
JAN, 07...	1325	4.0	1.3	5	.02
23...	1315	4.5	3.9	47	.50
FEB, 14...	1135	4.0	1.3	3	.01
20...	0900	1.5	1.4	2	.01
25...	1140	3.0	.76	0	.00
MAR, 13...	1140	8.0	2.3	0	.00
26...	1315	11.5	3.5	1	.01
APR, 09...	1625	12.0	6.0	6	.10
24...	0830	10.5	1.7	1	.01
JULY 23...	1105	20.0	1.4	5	.02
AUG, 12...	1150	21.0	1.6	0	.00
28...	1500	19.0	2.1	0	.00
SEP, 09...	1155	20.0	.44	2	.00
26...	1240	16.0	12	1	.03
OCT, 10...	0915	14.0	3.0	4	.03
17...	1730	13.0	9.2	1	.02
NOV, 07...	1145	8.0	16	3	.13
DEC, 06...	1555	5.0	6.1	1	.02
12...	1600	1.0	5.7	2	.03

GILA RIVER BASIN

09431100 MANGAS CREEK BELOW MANGAS SPRINGS, N. MEX.

LOCATION.--Lat 32°50'57, long 108°31'13", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.5, T.17 S., R.16 W., Grant County, 0.1 mi (0.2 km) upstream from Blacksmith Canyon and 15 mi (24 km) southeast of Gila.

DRAINAGE AREA.--177 mi² (458 km²).

PERIOD OF RECORD.--Chemical analyses: April 1970 to current year.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00001)	DIS- SOLVED SILICA (SiO ₂) (MG/L) (00955)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO ₃) (MG/L) (00440)	CAR- BONATE (CO ₃) (MG/L) (00445)	DIS- SOLVED SULFATE (SO ₄) (MG/L) (00945)
JAN. 07...	1445	2.1	30	73	14	29	3.6	268	0	42
MAR. 05...	1115	2.1	--	--	--	--	--	--	--	--
MAY 23...	1115	2.3	33	68	13	26	1.8	252	0	43
JULY 04...	1350	2.3	32	66	12	28	4.0	257	0	45
SEP. 16...	1155	2.5	33	70	12	26	2.9	253	0	48
NOV. 19...	1505	2.6	35	60	13	28	2.8	225	0	45

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)
JAN. 07...	12	.4	4.2	355	240	20	.8	576	7.8	14.0
MAR. 05...	--	--	--	--	--	--	--	500	--	11.5
MAY 23...	9.0	.5	4.1	337	220	17	.8	537	8.1	21.5
JULY 04...	10	.5	4.1	342	210	0	.8	536	8.1	24.0
SEP. 16...	11	.5	4.7	349	220	12	.8	541	8.2	21.0
NOV. 19...	11	.5	5.0	328	200	15	.9	510	8.2	16.5

09431500 GILA RIVER NEAR REDROCK, N. MEX.
(Surveillance and radiochemical network station)

LOCATION.--Lat 32°43'37", long 108°40'30", in W₂ sec.23, T.18 S., R.18 W., Grant County, at gaging station 0.2 mi (0.3 km) downstream from Copper Canyon, 0.2 mi (0.3 km) upstream from lower end of box canyon, 4.7 mi (7.6 km) northeast of Redrock, and 14 mi (23 km) downstream from Mangas Creek, and at mile 539.2 (867.6 km).

DRAINAGE AREA.--2,829 mi² (7,327 km²).

PERIOD OF RECORD.--Chemical analyses: July 1967 to current year.
Sediment records: July 1974 to current year.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SiO ₂) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NESIUM (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED POT- ASSIUM (K) (MG/L) (00935)	BICAR- BONATE (MG/L) (00440)
JAN.										
09...	1055	90	31	--	--	40	8.4	33	2.3	175
23...	1035	81	--	--	--	--	--	--	--	--
FEB.										
13...	1340	54	32	--	--	42	8.9	36	2.1	188
MAR.										
04...	1225	54	--	--	--	--	--	--	--	--
26...	1000	59	32	13	5	39	8.9	36	2.5	184
APR.										
10...	1130	51	33	--	--	40	9.3	38	2.2	191
MAY										
01...	1045	62	33	--	--	42	9.8	41	2.6	197
22...	0900	24	34	10	40	43	10	40	3.0	208
JUNE										
04...	0845	19	38	--	--	42	10	40	2.6	205
JULY										
01...	1120	4.7	--	--	--	--	--	--	--	--
18...	1100	210	--	--	--	--	--	--	--	--
24...	0900	85	41	50	--	40	9.3	36	4.0	182
30...	1045	86	--	--	--	--	--	--	--	--
AUG.										
13...	1030	142	--	--	--	--	--	--	--	--
14...	1150	120	--	--	--	--	--	--	--	--
28...	1200	159	20	20	--	23	3.8	13	1.8	85
SEP.										
19...	1015	91	33	80	50	40	7.2	37	3.3	188
OCT.										
17...	1100	91	38	20	--	38	6.5	33	2.2	170
NOV.										
14...	1700	146	37	30	--	32	6.8	30	1.9	149
DEC.										
12...	1100	80	34	10	0	39	8.1	34	1.9	178

DATE	CAR- BONATE (CO ₃) (MG/L) (00445)	DIS- SOLVED SULFATE (SO ₄) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)
JAN.									
09...	0	38	14	2.1	--	--	--	.23	--
23...	--	--	--	--	--	--	--	--	--
FEB.									
13...	1	41	16	2.3	--	--	--	.05	--
MAR.									
04...	--	--	--	--	--	--	--	--	--
26...	0	42	14	2.2	--	--	--	.02	--
APR.									
10...	2	41	15	2.1	--	--	--	.02	--
MAY									
01...	0	45	17	2.3	--	--	--	.02	--
22...	0	43	15	2.6	--	--	--	.02	--
JUNE									
04...	0	39	14	2.4	--	--	--	.00	--
JULY									
01...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
24...	0	47	17	2.4	.14	.00	.14	.14	.07
30...	--	--	--	--	--	--	--	--	--
AUG.									
13...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
28...	0	19	4.8	--	.23	.00	.26	.23	.13
SEP.									
19...	0	41	17	2.4	.01	.01	.10	.02	.04
OCT.									
17...	0	34	14	2.1	.14	.00	.16	.14	.07
NOV.									
14...	0	31	13	2.2	.16	.01	.17	.17	.04
DEC.									
12...	0	34	17	2.2	.07	.00	.07	.07	.04

GILA RIVER BASIN

09431500 GILA RIVER NEAR REDROCK, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)
JAN.									
09...	--	--	--	--	--	256	130	0	1.2
23...	--	--	--	--	--	--	--	--	--
FEB.									
13...	--	--	--	--	--	274	140	0	1.3
MAR.									
04...	--	--	--	--	--	--	--	--	--
26...	--	--	--	.06	309	268	130	0	1.4
APR.									
10...	--	--	--	--	--	277	140	0	1.4
MAY									
01...	--	--	--	--	--	290	150	0	1.5
22...	--	--	--	.06	298	293	150	0	1.4
JUNE									
04...	--	--	--	--	--	289	150	0	1.4
JULY									
01...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
24...	.63	.84	.32	.11	283	288	140	0	1.3
30...	--	--	--	--	--	--	--	--	--
AUG.									
13...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
28...	1.8	2.2	4.1	.15	141	129	73	3	.7
SEP.									
19...	.58	.72	.08	.02	260	274	130	0	1.4
OCT.									
17...	.43	.66	.24	.06	--	252	120	0	1.3
NOV.									
14...	.39	.60	.15	.04	228	228	110	0	1.3
DEC.									
12...	.18	.29	.05	.01	255	258	130	0	1.3

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MMOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	TOTAL ORGANIC CARBON (C) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN.									
09...	410	8.0	--	10.0	--	--	--	--	--
23...	426	--	--	3.0	--	--	--	--	--
FEB.									
13...	424	8.4	--	10.0	--	--	--	--	--
MAR.									
04...	426	--	--	11.0	--	--	--	--	--
26...	420	8.2	15.0	11.0	--	--	--	--	47
APR.									
10...	432	8.4	--	11.5	--	--	--	--	--
MAY									
01...	446	8.3	--	16.0	--	--	--	--	--
22...	459	8.0	19.5	12.5	--	--	--	--	50
JUNE									
04...	458	8.0	--	15.0	--	--	--	--	--
JULY									
01...	441	--	--	27.0	--	--	--	--	--
18...	387	--	--	21.0	--	--	--	--	--
24...	428	8.2	24.5	19.5	60	8.0	16	5.5	60
30...	322	--	--	19.0	--	--	--	--	--
AUG.									
13...	378	--	--	21.0	--	--	--	--	--
14...	380	--	--	--	--	--	--	--	--
28...	200	7.5	23.0	19.0	1000	--	240	25	60
SEP.									
19...	424	8.6	23.0	18.0	100	8.4	14	4.0	70
OCT.									
17...	384	8.1	20.0	13.0	30	9.4	7	3.4	50
NOV.									
14...	343	8.2	15.5	12.5	2	9.3	10	3.0	60
DEC.									
12...	396	8.3	7.5	3.5	6	11.9	8	3.1	50

GILA RIVER BASIN

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09431500 GILA RIVER NEAR REDROCK, N. MEX.--Continued

TRACE ELEMENT AND RADIOCHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	DIS- SOLVED ALUM- INUM (AL) (UG/L) (01106)	TOTAL ARSENIC (AS) (UG/L) (01002)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BERYL- LIUM (BE) (UG/L) (01010)	DIS- SOLVED BISMUTH (BI) (UG/L) (01015)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	DIS- SOLVED COBALT (CO) (UG/L) (01035)
MAR, 26...	1000	10	--	3	20	<2	<6	47	<3	<3	<5
MAY 22...	0900	10	--	2	21	<2	<7	50	<3	<3	<7
SEP, 19...	1015	--	5	4	--	--	--	70	0	0	0
DEC, 12...	1100	--	2	2	--	--	--	50	1	<10	3

DATE	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED GALLIUM (GA) (UG/L) (01120)	DIS- SOLVED GER- MANIUM (GE) (UG/L) (01125)	TOTAL IRON (FE) (UG/L) (01045)	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)
MAR, 26...	4	<3	<6	--	13	<100	<6	22	5	.0
MAY 22...	2	<2	<7	--	10	<100	<7	22	40	.0
SEP, 19...	2	--	--	7800	80	<100	2	--	50	.0
DEC, 12...	4	--	--	380	10	<100	0	--	0	<.1

DATE	DIS- SOLVED MERCURY (HG) (UG/L) (71690)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L) (01060)	DIS- SOLVED NICKEL (NI) (UG/L) (01065)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	TOTAL SELE- NIUM (SE) (UG/L) (01147)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED STRON- TIUM (SR) (UG/L) (01080)	DIS- SOLVED TIN (SN) (UG/L) (01100)	DIS- SOLVED TAN- IUM (TI) (UG/L) (01150)	DIS- SOLVED VANA- DIUM (V) (UG/L) (01085)
MAR, 26...	--	3	<5	0	--	0	190	<6	<3	4.0
MAY 22...	--	2	<6	0	--	0	170	<7	<5	6.0
SEP, 19...	.0	--	--	--	0	0	--	--	--	--
DEC, 12...	<.1	--	--	--	0	0	--	--	--	--

DATE	DIS- SOLVED ZINC (ZN) (UG/L) (01090)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L) (01160)	DIS- SOLVED GROSS ALPHA AS U-NAT, (UG/L) (80030)	SUS- PENDE GROSS ALPHA AS U-NAT, (UG/L) (80040)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L) (03515)	SUS- PENDE GROSS BETA AS CS-137 (PC/L) (03516)	DIS- SOLVED GROSS BETA AS AS SR90 /Y90 (PC/L) (80050)	SUS- PENDE GROSS BETA AS AS SR90 /Y90 (PC/L) (80060)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DIS- SOLVED NATURAL URANIUM (U) (UG/L) (22703)
MAR, 26...	3	<10	--	--	--	--	--	--	--	--
MAY 22...	<7	<7	5.4	1.2	3.6	1.8	2.9	1.5	.01	2.2
SEP, 19...	0	--	--	--	--	--	--	--	--	--
DEC, 12...	20	--	10	.9	4.0	1.5	3.3	1.3	.03	1.2

GILA RIVER BASIN

09431500 GILA RIVER NEAR REDROCK, N. MEX.--Continued

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOC CI (COL- ONIES PER 100 ML) (31679)
JULY 24...	0900	200	500
AUG. 28...	1200	10000	3500
SEP. 19...	1015	3200	1600
OCT. 17...	1100	150	530
NOV. 14...	1700	10	730
DEC. 12...	1100	7	100

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	SUS- PENDE SEDIM- ENT DIS- CHARGE (MG/L) (80154)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY) (80155)	SUS. SED. FALL DIAM. X FINER THAN ,002 MM (70337)	SUS. SED. FALL DIAM. X FINER THAN ,004 MM (70338)	SUS. SED. FALL DIAM. X FINER THAN ,016 MM (70340)	SUS. SED. SIEVE DIAM. X FINER THAN ,062 MM (70331)	SUS. SED. SIEVE DIAM. X FINER THAN ,125 MM (70332)	SUS. SED. SIEVE DIAM. X FINER THAN ,250 MM (70333)	SUS. SED. SIEVE DIAM. X FINER THAN ,500 MM (70334)
JULY 24...	0900	19.5	85	225	52	45	57	81	96	98	99	100
AUG. 28...	1200	19.0	159	751	322	--	--	--	42	--	--	--
SEP. 19...	1015	18.0	91	550	135	--	--	--	--	--	--	--
OCT. 17...	1100	13.0	91	106	26	--	--	--	86	--	--	--
NOV. 14...	1700	12.5	146	114	45	--	--	--	58	--	--	--
DEC. 12...	1100	3.5	80	31	6.7	--	--	--	67	--	--	--

GILA RIVER BASIN

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09444000 SAN FRANCISCO RIVER NEAR GLENWOOD, N. MEX.
(Surveillance network station)

LOCATION.--Lat 33°14'48", long 108°52'47", in NE¼NW¼ sec.23, T.12 S., R.20 W., Catron County, at gaging station 0.2 mi (0.3 km) upstream from hot springs, 5 mi (8 km) south of Glenwood, 6 mi (10 km) downstream from Whitewater Creek, and at mile 511.5 (823.0 km) (revised).

DRAINAGE AREA.--1,653 mi² (4,281 km²).

PERIOD OF RECORD.--Chemical analyses: April 1963 to current year.

Sediment records: April 1963 to July 1967, July 1970 to current year.

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (000611)	DIS- SOLVED SILICA (SiO ₂) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NESIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED POT- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO ₃) (MG/L) (00440)
JAN.										
22...	1330	35	37	10	--	41	11	32	2.4	197
FEB.										
19...	1330	28	35	10	--	41	10	33	2.6	177
MAR.										
27...	0830	20	37	10	--	42	11	36	3.1	211
APR.										
24...	1115	18	38	10	--	42	11	39	2.9	205
MAY										
21...	1300	18	40	10	--	39	10	39	3.4	199
JUNE										
19...	0945	15	41	10	--	45	11	44	3.7	219
JULY										
23...	1245	16	42	30	--	43	11	42	3.4	217
AUG.										
28...	1600	25	39	--	--	38	10	27	3.0	195
SEP.										
20...	0930	41	35	200	0	35	7.3	25	3.0	171
OCT.										
18...	1100	36	37	20	--	36	7.9	30	2.4	194
NOV.										
15...	1200	35	36	10	--	34	8.7	27	1.5	177
DEC.										
13...	1000	29	35	10	0	38	9.9	28	2.4	177

DATE	CAR- BONATE (CO ₃) (MG/L) (00445)	DIS- SOLVED SULFATE (SO ₄) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRATE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)
JAN.									
22...	5	15	21	.4	.11	.00	.14	.11	.03
FEB.									
19...	11	15	26	.6	.07	.00	.08	.07	.05
MAR.									
27...	0	15	30	.6	.17	.00	.18	.17	.05
APR.									
24...	0	16	36	.4	.07	.01	.15	.08	.03
MAY									
21...	3	7.8	39	.5	.10	.00	.10	.10	.06
JUNE									
19...	0	16	44	.6	.13	.00	.13	.13	.04
JULY									
23...	0	18	40	.5	.08	.00	.14	.08	.01
AUG.									
28...	0	15	18	.5	--	--	.14	.13	.09
SEP.									
20...	0	13	17	.4	.19	.00	.25	.19	.03
OCT.									
18...	0	12	18	.4	.08	.00	.13	.08	.05
NOV.									
15...	0	14	17	.3	.14	.05	.20	.19	.04
DEC.									
13...	4	13	23	.4	.14	.00	.15	.14	.04

GILA RIVER BASIN

09444000 SAN FRANCISCO RIVER NEAR GLENWOOD, N. MEX.--Continued

CHEMICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TOTAL ORGANIC NITRO- GEN (N) (00605)	TOTAL NITRO- GEN (N) (00600)	TOTAL PHOS- PHORUS (P) (00665)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)
JAN. 22...	--	--	.10	.07	250	263	150	0	1.1
FEB. 19...	.16	.29	.06	.05	252	262	140	0	1.2
MAR. 27...	.07	.30	.08	.06	275	280	150	0	1.3
APR. 24...	.13	.31	.19	.03	269	287	150	0	1.4
MAY 21...	.10	.26	.08	.07	279	281	140	0	1.4
JUNE 19...	.42	.59	.07	.07	311	314	160	0	1.5
JULY 23...	.17	.32	.11	.08	296	308	150	0	1.5
AUG. 28...	.19	.42	.33	.08	232	248	140	0	1.0
SEP. 20...	.65	.93	.34	.07	204	221	120	0	1.0
OCT. 18...	.12	.30	.07	.04	234	240	120	0	1.2
NOV. 15...	.29	.53	.13	.05	226	227	120	0	1.1
DEC. 13...	.11	.30	.07	.02	229	242	140	0	1.0

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	TOTAL ORGANIC CARBON (C) (00680)	DIS- SOLVED BORON (B) (01020)
JAN. 22...	413	8.1	12.5	11.5	--	10.3	--	2.5	30
FEB. 19...	412	8.9	15.5	13.0	--	12.0	--	2.9	30
MAR. 27...	454	8.2	6.5	11.0	--	8.8	--	1.2	30
APR. 24...	464	8.1	25.5	18.0	--	9.7	--	4.6	40
MAY 21...	479	8.7	28.0	22.0	--	9.7	--	1.4	40
JUNE 19...	512	8.0	27.0	19.5	--	9.0	--	2.0	50
JULY 23...	486	8.3	33.5	26.5	10	9.4	5	1.5	60
AUG. 28...	370	8.4	21.0	25.0	60	7.8	7	2.9	90
SEP. 20...	343	8.3	16.0	15.5	80	8.7	10	8.4	80
OCT. 18...	376	8.2	23.0	17.0	10	9.4	3	2.0	60
NOV. 15...	351	8.1	20.5	13.5	10	9.3	8	2.0	40
DEC. 13...	380	8.5	12.0	8.5	5	11.9	4	2.9	30

09444000 SAN FRANCISCO RIVER NEAR GLENWOOD, N. MEX.--Continued
TRACE ELEMENT ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L) (01002)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	DIS- SOLVED COBALT (CO) (UG/L) (01035)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)
SEP, 20...	0930	4	2	80	0	0	0	0	4000
DEC, 13...	1000	2	3	30	1	<10	3	1	260

DATE	TIME	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE- NIUM (SE) (UG/L) (01147)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
SEP, 20...	200	<100	2	0	0	0	0	0	0	10
DEC, 13...	10	<100	1	0	<1	<1	0	0	0	20

BIOLOGICAL ANALYSES, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOC- CI (COL- ONIES PER 100 ML) (31679)
JAN, 22...	1330	0	--
FEB, 19...	1330	3	--
MAR, 27...	0830	20	--
APR, 24...	1115	2	--
MAY, 21...	1300	3	--
JUNE, 19...	0945	87	--
JULY, 23...	1245	14	140
AUG, 28...	1600	150	400
SEP, 20...	0930	4200	2000
OCT, 18...	1100	12	120
NOV, 15...	1200	13	79
DEC, 13...	1000	1	21

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	TIME	TEMPER- ATURE (DEG C) (00010)	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	SUS- PENDE SEDI- MENT (MG/L) (80154)	SUS- PENDE SEDI- MENT CHARGE (T/DAY) (80155)	SUS. SED. SIEVE DIAM. X FINER THAN .062 MM (70331)
JAN, 22...	1330	11.5	35	17	1.6	--
MAR, 27...	0830	11.0	20	12	.65	--
JULY, 23...	1245	26.5	16	20	.86	--
SEP, 20...	0930	15.5	41	215	24	98
OCT, 18...	1100	17.0	36	35	3.4	90
NOV, 15...	1200	13.5	35	30	2.8	93
DEC, 13...	1000	8.5	29	11	.86	86

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

EXPLANATION: Partial-record stations or miscellaneous sites in this table are listed in downstream order by parts if an eight-digit number has been assigned (see p. 10). They are followed by miscellaneous sites in ascending latitude-longitude identification numbers (see p. 12).

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

08284100 RIO CHAMA NEAR LA PUENTE, N. MEX. (LAT 36°39'45", LONG 106°37'57".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HC03) (MG/L) (00440)
JULY 16...	1200	27	13	20	40	53	12	14	2.6	168
DATE		CAR- BONATE (C03) (MG/L) (00445)	DIS- SOLVED SULFATE (S04) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)
JULY 16...		0	67	4.0	.2	.01	.00	.01	.01	.09
DATE		TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)
JULY 16...		.39	.49	.03	.01	260	249	180	44	.5
DATE		SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JULY 16...		375	8.3	22.0	20.5	10	9.8	14	4.9	40
DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)			
JULY 16...	1200	2	<100	40	1	0	4			
DATE		DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (MG) (UG/L) (71900)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)		
JULY 16...		20	<100	40	.0	0	0	0		
DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDIM- ENT (MG/L) (80154)	SUS- PENDE SEDIM- ENT (MG/L) (80155)	SUS. SED. SIEVE DIAM. X FINEP THAN .062 MM (70331)	SUS. SED. SIEVE DIAM. X FINER THAN .125 MM (70332)	
JULY 16...	1200	375	20.5	10	27	17	1.2	98	100	

WATER QUALITY DATA: CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

08284160 AZOTEA TUNNEL AT OUTLET, NEAR CHAMA, N. MEX. (LAT 36°51'12", LONG 106°40'18".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
APR. 23...	0835	161	19	10	--	16	2.7	6.8	1.0	57
MAY 29...	0915	492	17	50	--	8.6	1.3	3.3	.9	30
JUNE 11...	1530	174	20	130	10	13	1.7	5.5	1.1	44
JULY 24...	1445	60	23	20	--	15	2.2	6.3	1.6	54
AUG. 20...	1530	4.0	25	20	--	21	3.1	17	2.1	107
SEP. 19...	1415	1.0	26	20	--	27	3.3	93	3.7	223

DATE	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)
APR. 23...	0	21	.9	.3	--	--	--	.01	--
MAY 29...	0	8.8	.8	.1	--	--	--	.00	--
JUNE 11...	--	11	.7	.2	.02	.00	.02	.02	.01
JULY 24...	--	16	.6	.1	--	--	--	.06	--
AUG. 20...	--	8.2	4.4	.2	--	--	--	.03	--
SEP. 19...	11	25	42	.4	--	--	--	.08	--

DATE	TOTAL ORGANIC NITRO- GEN (N) (00605)	TOTAL NITRO- GEN (N) (00600)	TOTAL PHOS- PHORUS (P) (00665)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)
APR. 23...	--	--	--	.03	94	76	51	4	.4
MAY 29...	--	--	--	.05	54	56	27	2	.3
JUNE 11...	.28	.31	.03	.03	77	75	40	3	.4
JULY 24...	--	--	--	.01	89	92	47	2	.4
AUG. 20...	--	--	--	.05	124	134	65	0	.9
SEP. 19...	--	--	--	.04	339	342	81	0	4.5

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
APR. 23...	143	7.8	--	3.5	--	--	--	--	10
MAY 29...	202	7.6	--	5.0	12	--	--	--	10
JUNE 11...	89	7.8	25.0	9.0	2	9.2	26	2.2	10
JULY 24...	132	--	--	13.0	41	--	--	--	20
AUG. 20...	198	--	--	14.5	3	--	--	--	30
SEP. 19...	551	--	--	12.0	1	--	--	--	150

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

08284160 AZOTEA TUNNEL AT OUTLET NEAR CHAMA, N. MEX.--Continued

		DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED VAL- LENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)					
DATE	TIME											
JUNE 11...	1530	0	100	10	0	0	0					
		DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)				
DATE	TIME											
JUNE 11...	130	<100	10	0	0	0	20					
DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	SUS- PEN- DED SEDI- MENT (MG/L) (80154)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY) (80155)	SUS, SED, SIEVE DIAM. % FINER THAN .062 MM (70331)	SUS, SED, SIEVE DIAM. % FINER THAN .125 MM (70332)	SUS, SED, SIEVE DIAM. % FINER THAN .250 MM (70333)	SUS, SED, SIEVE DIAM. % FINER THAN .500 MM (70334)	SUS, SED, SIEVE DIAM. % FINER THAN 1.00 MM (70335)
APR. 17...	0900	164	3.0	13	92	29	7.2	88	91	95	100	--
MAY 29...	0915	202	5.0	12	492	67	89	79	93	97	100	--
JUNE 11...	1530	89	9.0	2	174	10	4.7	70	73	83	100	--
JUNE 14...	0845	91	8.0	2	183	9	4.4	89	94	97	100	--
JULY 03...	1500	124	12.5	2	15	4	.16	72	81	86	100	--
JULY 24...	1445	132	13.0	41	60	82	13	98	99	99	100	--
AUG. 06...	0830	122	12.5	8	84	20	4.5	80	86	87	97	100
AUG. 20...	1530	198	14.5	3	4.0	5	.05	74	81	89	100	--
SEP. 04...	1345	522	15.0	1	1.0	2	.01	77	100	--	--	--
SEP. 19...	1415	551	12.0	1	1.0	7	.02	43	66	80	100	--
OCT. 02...	1215	526	12.0	1	1.0	6	.02	26	65	100	--	--

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

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WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

08284200 WILLOW CREEK ABOVE HERON RESERVOIR, NEAR PARK VIEW, N. MEX.
(LAT 36°44'33", LONG 106°37'34".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
JULY 16...	1600	42	20	30	0	31	8.5	15	2.7	104

DATE	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)
JULY 16...	0	66	2.0	.2	.15	.00	.16	.15	.07

DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)
JULY 16...	1.5	1.8	.05	.04	199	198	110	27	.6

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JULY 16...	298	8.0	20.0	20.0	140	7.4	3500	22	50

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)
JULY 16...	1600	2	<100	50	1	0	4

DATE	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
JULY 16...	30	<100	0	.0	0	0	0

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDIM- ENT CHARGE (MG/L) (80154)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY) (80155)	SUS- SED. SIEVE DIAM. X FINER THAN .062 MM (70331)
JULY 16...	1600	298	20.0	140	42	627	71	100

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

08284540 RIO CHAMA BELOW HERON DAM, N. MEX. (LAT 36°39'40", LONG 106°43'08".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
JULY 16...	1445	47	12	30	0	67	20	18	2,9	132
DATE	TIME	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)
JULY 16...		0	180	3.0	.2	.08	.00	.10	.08	.07
DATE	TIME	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (MG/L) (00931)
JULY 16...		.32	.49	.03	.00	382	365	250	140	.5
DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JULY 16...		523	8.4	21.0	15.5	10	10.0	23	5.5	40
DATE	TIME	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED MANG- NESE (MG) (UG/L) (71900)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	
JULY 16...	1445			2	<100	40	1	0	2	
DATE	TIME	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (MG) (UG/L) (71900)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)		
JULY 16...		30	<100	0	.0	0	0	0		
DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDIM- ENT (MG/L) (80154)	SUS- PENDE SEDIM- ENT (MG/L) (80155)	SUS- SED. SIEVE DIAM. % FINER 0.062 MM (70331)	SUS- SED. SIEVE DIAM. % FINER 0.125 MM (70332)	SUS- SED. SIEVE DIAM. % FINER 0.250 MM (70333)
JULY 16...	1445	523	15.5	10	47	10	1.3	83	92	100

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

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WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

08285100 RIO CHAMA SEEP BELOW EL VADO DAM, N. MEX. (LAT 36°35'40", LONG 106°44'00".10)

DATE	TIME	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLOR- IDE (CL) (MG/L) (00940)	DIS- SOLVED FLUOR- IDE (F) (MG/L) (00950)
FEB, 08...	1000	15	20	30	5.7	7.6	1.8	84	0	45	1.5	.3

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
FEB, 08...	.08	.03	164	149	98	29	.3	240	7.9	3.0	20

DATE	TIME	DIS- SOLVED ALUM- INUM (AL) (UG/L) (01106)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)
FEB, 08...	1000	10	20	20	10

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDI- MENT (MG/L) (80154)	SUS- PENDE SEDI- MENT CHARGE (T/DAY) (80155)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM (70332)
AUG, 29...	1030	159	12.0	3	10	6	.16	64	100

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

08285500 RIO CHAMA BELOW EL VADO DAM, N. MEX. (LAT 36°34'48", LONG 106°43'24".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
JULY 03...	1200	6.0	15	40	--	26	4.3	6.1	1.6	76
JULY 16...	0945	237	15	110	40	26	5.3	7.3	1.6	77

DATE	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)
JULY 03...	0	40	1.0	.1	--	--	--	.01	--
JULY 16...	0	43	1.7	.1	.08	.00	.09	.08	.04

DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (MG/L) (00931)
JULY 03...	--	--	--	.01	134	132	83	20	.3
JULY 16...	.20	.33	.06	.04	143	139	87	24	.3

DATE	SPE- CIFIL CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JULY 03...	210	7.7	--	13.0	--	--	--	--	30
JULY 16...	210	8.2	20.0	10.5	10	10.2	1	4.5	20

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)
JULY 16...	0945	3	<100	20	<1	0	6

	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
DATE							
JULY 16...	110	<100	40	.0	1	0	10

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDI- MENT (MG/L) (80154)	SUS- PENDE SEDI- MENT CHARGE (T/DAY) (80155)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM (70332)
JULY 16...	0945	210	10.5	10	237	9	5.8	96	100

WATER QUALITY DATA: CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

08291000 SANTA CRUZ RIVER NEAR CUNDIYO, N. MEX. (LAT 35°57'53", LONG 105°54'14".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	
JUNE 29...	1645	29	9.9	50	13	1.5	2.1	.8	
DATE		BICAR- BONATE (HCO3) (MG/L) (00440)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (CA,MG) (MG/L) (70301) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)
JUNE 29...	47	5.7	1.3	.2	.03	58	39	0	.1
DATE		SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED OXYGEN (MG/L) (00300)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JUNE 29...	88	7.4	16.0	7.2	360	700	2.6	10	

08294300 RIO NAMBE AT NAMBE FALLS, NEAR NAMBE, N. MEX. (LAT 35°50'46", LONG 105°54'29".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)
JUNE 29...	1400	15	9.6	50	4.4	.8	2.3	.6

DATE	BICAR- BONATE (HCO3) (MG/L) (00440)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	NON- CAR- BONATE HARD- NESS (CA,MG) (MG/L) (00900)	SODIUM AD- SORP- TION RATIO (00931)	
JUNE 29...	19	4.7	.9	.2	.02	33	14	0	.3

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED OXYGEN (MG/L) (00300)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JUNE 29...	41	7.4	11.0	8.5	7	34	4.3	20

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

08302500 TESUQUE CREEK ABOVE DIVERSIONS, NEAR SANTA FE, N. MEX.
(LAT 35°44'20", LONG 105°54'20".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	
JUNE 29...	1110	3.0	12	10	7.8	2.1	3.5	1.0	
DATE		BICAR- BONATE (HCO3) (MG/L) (00440)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	NON- CAR- BONATE HARD- NESS (CA,MG) (MG/L) (00900)	SODIUM AD- SORP- TION RATIO (00902) (00931)
JUNE 29...	30	7.2	5.7	.1	.03	54	28	4	.3
DATE		SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED OXYGEN (MG/L) (00300)	FECAL COLI- FORM (COL. PER (31616)	STREP- TOCOCCI (COL- ONIES PER (31679)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JUNE 29...	80	7.3	9.5	9.1	1	60	1.9	10	

08317200 SANTA FE RIVER ABOVE COCHITI LAKE, N. MEX. (LAT 35°32'49", LONG 106°13'41".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
JUNE 28...	1015	3.3	24	30	150	62	11	67	6.8	298
DATE		DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)
JUNE 28...	45	29	.9	1.2	3.4	415	408	200	0	
DATE		SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED OXYGEN (MG/L) (00300)	FECAL COLI- FORM (COL. PER (31616)	STREP- TOCOCCI (COL- ONIES PER (31679)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JUNE 28...	2.1	655	8.2	17.0	7.9	>70000	6000	16	240	

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

08317200 SANTA FE RIVER ABOVE COCHITI LAKE, N. MEX.--Continued

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)
JUNE 28...	1015	7	100	240	0	0	10

DATE	TIME	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
JUNE 28...	30	<100	150	.2	0	0	20	

08317850 GALISTEO CREEK ABOVE GALISTEO RESERVOIR, N. MEX.
(LAT 35°26'58", LONG 106°09'08".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)
JUNE 28...	1420	.33	17	20	150	45	140	3.7

DATE	TIME	BICAR- BONATE (HCO3) (MG/L) (00440)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)
JUNE 28...	215	630	23	1.1	.02	1120	560	380	2.6	

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED OXYGEN (MG/L) (00300)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	STREP- TOCOCCI (COL- ONIES PER 100 ML) (31679)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
JUNE 28...	1510	8.1	24.0	8.8	>1300	115	2.7	200	

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

08319000 RIO GRANDE AT SAN FELIPE, N. MEX. (LAT 35°26'39", LONG 106°26'23".10)

		INSTAN=	DIS=	DIS=	DIS=	DIS=	DIS=	DIS=	DIS=	DIS=	DIS=	DIS=
		TANEOUS	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED
		DIS=	SILICA	IRON	MAN=	CAL=	NE=	SOLVED	TAS=	BICAR=	CAR=	DIS=
		CHARGE	(SI02)	(FE)	GANESE	CIUM	SIUM	SODIUM	SIUM	BONATE	BONATE	SULFATE
DATE	TIME	(CFS)	(MG/L)	(UG/L)	(MN)	(CA)	(MG)	(NA)	(K)	(HCO3)	(CO3)	(SO4)
		(00061)	(00955)	(01046)	(UG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)
FEB.												
14...	1325	882	29	0	10	46	9.8	25	2.6	--	--	66
19...	1245	--	--	--	--	--	--	--	--	170	0	--

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	BROMIDE (BR) (MG/L) (71870)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO, PHOS- PHORUS (P) (MG/L) (00671)	HARD- NESS (CA,MG) (MG/L) (00900)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
FEB. 14...	8.1	.4	.0	.34	.04	160	.9	419	7.9	4.0	50
19...	9.0	--	--	--	--	--	--	440	8.0	--	--

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
FEB. 14...	1325	0	50	0	20	10

08321500 JEMEZ RIVER BELOW EAST FORK, NEAR JEMEZ SPRINGS, N. MEX.
(LAT 35°49'39", LONG 106°38'51".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)
JUNE 18...	1215	--	--	--	--	--	--	--	--
JULY 10...	1215	13	--	--	--	--	--	--	--
NOV. 14...	1315	--	50	60	0	15	3.0	17	2.8

DATE	BICAR- BONATE (CO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	BROMIDE (BR) (MG/L) (71870)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO, PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)
JUNE 18...	91	0	--	4.0	--	--	--	--	--
JULY 10...	91	0	--	7.0	--	--	--	--	--
NOV. 14...	71	--	13	6.4	.9	.1	.01	.03	133

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
JUNE 18...	--	--	--	--	182	8.3	18.5	--
JULY 10...	--	--	--	--	170	8.3	18.0	--
NOV. 14...	144	50	0	1.0	176	7.7	4.5	40

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

08321500 JEMEZ RIVER BELOW EAST FORK, NEAR JEMEZ SPRINGS, N. MEX.--Continued

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)
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NOV., 14...	1315	6	<100	40	1	0	1	60
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DATE	TIME	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (MG) (UG/L) (71900)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
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NOV., 14...	<100	4	80	0	<.1	<1	0	<10
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08323000 RIO GUADALUPE AT BOX CANYON, NEAR JEMEZ, N. MEX.
(LAT 35°43'52", LONG 106°45'44".00)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)
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JUNE 18...	1030	--	--	--	--	--	--	--	--
JULY 10...	1030	11	--	--	--	--	--	--	--
NOV., 14...	0955	--	23	110	0	40	3.4	10	2.0

DATE	TIME	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	BROMIDE (BR) (MG/L) (71870)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHU- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)
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JUNE 18...	158	0	--	4.0	--	--	--	--	--	--
JULY 10...	165	0	--	2.0	--	--	--	--	--	--
NOV., 14...	152	--	7.1	2.5	.4	.0	.01	.01	151	

DATE	TIME	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
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JUNE 18...	--	--	--	--	258	8.2	15.0	--
JULY 10...	--	--	--	--	256	8.3	17.0	--
NOV., 14...	164	110	0	.4	254	7.9	3.0	30

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
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NOV., 14...	0955	8	<100	30	0	0	0	110	<100	3	<10	0
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QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

08323000 RIO GUADALUPE AT BOX CANYON, NEAR JEMEZ, N. MEX.--Continued

DATE	TOTAL MERCURY (HG) (71900)	DIS- SOLVED SILVER (AG) (01075)	DIS- SOLVED SELE- NIUM (SE) (01145)	DIS- SOLVED ZINC (ZIN) (01090)	DIS- SOLVED GROSS ALPHA AS (U=NAT, (UG/L) (80030)	SUS- PENDE GROSS ALPHA AS (U=NAT, (UG/L) (80040)	DIS- SOLVED GROSS BETA AS (CS=137 (PC/L) (03515)	SUS- PENDE GROSS BETA AS (CS=137 (PC/L) (03516)	DIS- SOLVED GROSS BETA AS SR90 (Y90 (PC/L) (80050)	SUS- PENDE GROSS BETA AS SR90 (Y90 (PC/L) (80060)	DIS- SOLVED RA=226 METHOD (PC/L) (09511)	DIS- SOLVED NATURAL URANIUM (U) (UG/L) (22703)
NOV. 14...	<.1	<1	0	<10	8.4	.6	3.7	.6	3.0	.5	1.1	1.7

08324000 JEMEZ RIVER NEAR JEMEZ, N. MEX. (LAT 35°39'42", LONG 106°44'34".00)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SiO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)
JUNE 18...	1400	--	--	--	--	--	--	--	--
JULY 10...	1400	18	--	--	--	--	--	--	--
NOV. 14...	0910	--	38	190	0	48	5.1	60	9.8

DATE	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLOR- IDE (CL) (MG/L) (00940)	DIS- SOLVED FLUOR- IDE (F) (MG/L) (00950)	BROMIDE (BR) (MG/L) (71870)	DIS- SOLVED NITRATE PLUS (N) (MG/L) (00631)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)
JUNE 18...	246	0	--	100	--	--	--	--	--
JULY 10...	233	0	--	93	--	--	--	--	--
NOV. 14...	203	--	15	71	.9	.3	.05	.03	341

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
JUNE 18...	--	--	--	--	714	8.3	25.5	--
JULY 10...	--	--	--	--	636	8.2	25.0	--
NOV. 14...	350	140	0	2.2	584	7.4	4.0	570

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MANGANESE (MN) (UG/L) (01056)
NOV. 14...	0910	50	100	570	0	0	1	190	<100	2	700	0

DATE	TOTAL MERCURY (HG) (71900)	DIS- SOLVED SILVER (AG) (01075)	DIS- SOLVED SELE- NIUM (SE) (01145)	DIS- SOLVED ZINC (ZIN) (01090)	DIS- SOLVED GROSS ALPHA AS (U=NAT, (UG/L) (80030)	SUS- PENDE GROSS ALPHA AS (U=NAT, (UG/L) (80040)	DIS- SOLVED GROSS BETA AS (CS=137 (PC/L) (03515)	SUS- PENDE GROSS BETA AS (CS=137 (PC/L) (03516)	DIS- SOLVED GROSS BETA AS SR90 (Y90 (PC/L) (80050)	SUS- PENDE GROSS BETA AS SR90 (Y90 (PC/L) (80060)	DIS- SOLVED RA=226 METHOD (PC/L) (09511)	DIS- SOLVED NATURAL URANIUM (U) (UG/L) (22703)
NOV. 14...	<.1	<1	0	<10	19	3.9	15	2.3	12	2.1	1.8	.9

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

11329500 RIO GRANDE NEAR BERNALILLO, N. MEX.
(LAT 35°17'05", LONG 106°35'45".10)

DATE	TIME	BICAR- BONATE (MCU3) (MG/L) (00440)	CAR- BONATE (CU3) (MG/L) (00445)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)
FEB. 19...	1200	146	0	10	468	8.2
19...	1215	169	0	13	486	8.0

08362500 RIO GRANDE BELOW CABALLO DAM, N. MEX. (LAT 32°53'05", LONG 107°17'31".10)

DATE	TIME	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCU3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
FEB. 12...	0930	17	40	68	22	210	7.7	433	0	180	130

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
FEB. 12...	1.1	.03	850	260	0	5.7	1390	8.0	6.0	260

08385950 PECOS RIVER AT BOB CROSBY BRIDGE, NEAR ACME, N. MEX.
(LAT 33°34'10", LONG 104°22'20".10)

DATE	TIME	TOTAL 2,4-D (UG/L) (39730)	2,4-D IN BOTTOM MA- TERIAL (UG/KG) (39731)	TOTAL 2,4,5-T (UG/L) (39740)	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG) (39741)	TOTAL SILVEX (UG/L) (39760)	SILVEX IN BOTTOM MA- TERIAL (UG/KG) (39761)
MAY 29...	--	.00	--	.00	--	.00	--
JUNE 05...	0800	.00	--	.00	--	.00	--
14...	0745	.00	--	.00	--	.03	--
24...	1115	.00	0	.00	0	.00	0

08386070 PECOS RIVER AT TATUM BRIDGE, NEAR ROSWELL, N. MEX.
(LAT 33°23'50", LONG 104°23'40".10)

DATE	TIME	TOTAL 2,4-D (UG/L) (39730)	TOTAL 2,4,5-T (UG/L) (39740)	TOTAL SILVEX (UG/L) (3976)
MAY 29...	0900	.00	.00	.00
JUNE 05...	0845	.00	.00	.06
24...	0830	.00	.00	.05
24...	1030	.00	.00	.00

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

08397405 AQUA CHIQUITA CREEK NEAR WEED, N. MEX. (LAT 32°48'03", LONG 105°28'29".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)
APR, 23...	1405	.24	5.4	50	10	59	16	5.9	1.3	219	0
JULY 10...	--	--	24	5300	2200	190	27	8.4	13	807	0
11...	--	--	17	1200	--	140	19	3.5	11	532	--
19...	--	--	16	200	40	98	10	44	4.5	427	0

DATE	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
APR, 23...	.01	221	233	210	34	.2	402	8.0	20.5	4.1	20
JULY 10...	.08	--	714	590	0	.2	1170	7.1	--	--	--
11...	.12	545	483	430	0	.1	838	--	--	100	200
19...	.08	--	421	290	0	1.1	663	7.3	--	--	200

DATE	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)
APR, 23...	31	5.2	.5	--	--	--	.16	--	--	--	--
JULY 10...	7.1	6.4	.4	--	--	--	7.2	--	--	--	--
11...	22	6.3	.2	.05	.00	.61	.05	5.0	41	47	2.6
19...	18	4.5	.4	--	--	--	3.3	--	--	--	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED SILVER (AG) (UG/L) (01075)
JULY 11...	9	0	200	0	0	2	1200	1600	1.8	0

08401200 SOUTH SEVEN RIVERS NEAR LAKEWOOD, N. MEX.
(LAT 32°35'19", LONG 104°25'17".10)

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)
OCT. 20...	2770	14.0

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

08401900 ROCKY ARROYO AT HIGHWAY BRIDGE, NEAR CARLSBAD, N. MEX.
(LAT 32°30'23", LONG 104°22'28".00)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
OCT. 23...	1230	1380	.3	19	7.7	2.3	1.9	59	43	.6
31...	1120	14	11	140	51	13	2.8	203	340	17

DATE	TIME	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (MG/L) (01020)
OCT. 23...		.1	.05	104	79	31	.1	172	15.5	20
31...		.5	5.9	702	560	390	.2	1050	16.5	140

08405500 BLACK RIVER ABOVE MALAGA, N. MEX. (LAT 32°13'44", LONG 104°09'02".10)

DATE	TIME	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
MAY 30...	1430	15	0	330	62	24	2.1	128	0	900	27

DATE	TIME	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (MG/L) (01020)
MAY 30...		0.5	0.19	1420	1100	970	0.3	1910	7.8	24.0	110

09343000 RIO BLANCO NEAR PAGOSA SPRINGS, COLO. (LAT 37°12'46", LONG 106°47'38".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)
APR. 23...	1215	88	19	10	--	14	2.1	7.3	1.5	64	0	8.9
MAY 29...	1430	211	18	20	--	7.7	1.1	3.5	1.1	34	0	5.0
JUNE 11...	1300	107	20	20	10	13	1.6	5.0	1.3	53	--	5.3
JULY 03...	1015	37	24	20	--	16	2.6	6.5	1.7	77	0	6.1
24...	1000	51	24	50	--	16	2.6	6.6	1.7	74	--	8.6
AUG. 20...	1130	28	25	20	--	19	3.5	8.1	1.9	90	--	5.5
SEP. 19...	1000	15	26	20	--	22	2.9	8.5	1.9	102	--	6.4

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L) (00940)	DIS-SOLVED FLUORIDE (F) (MG/L) (00950)	DIS-SOLVED NITRATE (N) (MG/L) (00618)	DIS-SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRATE PLUS NITRITE (MG/L) (00630)	DIS-SOLVED NITRITE PLUS NITRATE (MG/L) (00631)	AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL NITROGEN (N) (MG/L) (00600)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DIS-SOLVED ORTHOPHOSPHORUS (P) (MG/L) (00671)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)
APR. 23...	.9	.1	--	--	--	.05	--	--	--	--	.03	62
MAY 29...	.3	.0	--	--	--	.00	--	--	--	--	.06	46
JUNE 11...	.5	.1	.02	.00	.02	.02	.01	.24	.27	.05	.05	79
JULY 03...	.7	.1	--	--	--	.00	--	--	--	--	.04	101
JULY 24...	.1	.1	--	--	--	.07	--	--	--	--	.05	101
AUG. 20...	.3	.1	--	--	--	.02	--	--	--	--	.03	101
SEP. 19...	.8	.2	--	--	--	.00	--	--	--	--	.04	116

09343000 RIO BLANCO NEAR PAGOSA SPRINGS, COLO.--Continued

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	HARDNESS (CA+MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	SODIUM ADSORPTION RATIO (00931)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DIS-SOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM (COL. PER 100 ML) (31616)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS-SOLVED BORON (B) (UG/L) (01020)
APR. 23...	86	44	0	.5	121	8.1	8.0	--	--	--	--	10
MAY 29...	54	24	0	.3	69	7.7	14.5	3	--	--	--	20
JUNE 11...	73	39	0	.3	98	7.8	14.0	3	8.2	24	2.0	10
JULY 03...	96	51	0	.4	132	7.8	14.0	2	--	--	--	20
JULY 24...	97	51	0	.4	131	--	14.5	7	--	--	--	10
AUG. 20...	108	62	0	.4	153	--	16.0	2	--	--	--	10
SEP. 19...	119	67	0	.5	172	--	10.5	1	--	--	--	20

DATE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L) (01000)	DIS-SOLVED BARIUM (BA) (UG/L) (01005)	DIS-SOLVED BORON (B) (UG/L) (01020)	DIS-SOLVED CADMIUM (CD) (UG/L) (01025)	DIS-SOLVED CHROMIUM (CR6) (UG/L) (01032)	DIS-SOLVED COPPER (CU) (UG/L) (01040)
JUNE 11...	1300	0	0	10	0	0	0

DATE	DIS-SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS-SOLVED MANGANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS-SOLVED SILVER (AG) (UG/L) (01075)	DIS-SOLVED SELENIUM (SE) (UG/L) (01145)	DIS-SOLVED ZINC (ZN) (UG/L) (01090)
JUNE 11...	20	<100	10	.0	0	1	10

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

09343000 RIO BLANCO NEAR PAGOSA SPRINGS, COLO.--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE- MENT DIS- CHARGE (MG/L) (80154)	SUS- PENDE- MENT DIS- CHARGE (T/DAY) (80155)
APR.							
16...	1130	141	5.6	8	45	13	1.6
MAY							
13...	1245	73	10.0	9	280	59	45
14...	1230	76	9.0	9	270	36	26
29...	1430	69	14.5	3	211	22	13
JUNE							
11...	1300	98	14.0	3	107	10	2.9
13...	1430	92	14.5	2	107	7	2.0
JULY							
03...	1015	132	14.0	2	37	6	.60
24...	1000	131	14.5	7	51	17	2.3
AUG.							
20...	1130	153	16.0	2	28	3	.23
SEP.							
04...	0930	175	10.5	2	17	9	.41
19...	1000	172	10.5	1	15	3	.12
OCT.							
02...	0930	175	6.0	1	13	2	.07

DATE	SUS. SED. SIEVE DIAM. % FINER THAN ,062 MM (70331)	SUS. SED. SIEVE DIAM. % FINER THAN ,125 MM (70332)	SUS. SED. SIEVE DIAM. % FINER THAN ,250 MM (70333)	SUS. SED. SIEVE DIAM. % FINER THAN ,500 MM (70334)	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM (70336)
APR.						
16...	99	100	--	--	--	--
MAY						
13...	45	57	71	89	96	100
14...	62	76	87	100	--	--
29...	46	58	72	90	100	--
JUNE						
11...	48	100	--	--	--	--
13...	83	89	95	100	--	--
JULY						
03...	80	85	99	100	--	--
24...	82	89	96	100	--	--
AUG.						
20...	66	81	100	--	--	--
SEP.						
04...	57	73	82	92	100	--
19...	63	74	100	--	--	--
OCT.						
02...	64	86	100	--	--	--

09343300 RIO BLANCO BELOW BLANCO DIVERSION DAM, NEAR PAGOSA SPRINGS, COLO.
(LAT 37°12'11", LONG 106°48'45".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
APR.										
23...	1230	21	19	20	--	14	2.0	6.9	1.4	61
MAY										
29...	1400	42	18	30	--	8.0	1.2	3.6	1.1	36
JUNE										
11...	1030	22	19	20	0	11	1.4	5.0	1.3	51
JULY										
03...	0930	22	24	50	--	17	2.1	6.5	1.7	78
24...	0930	23	24	20	--	17	2.4	6.9	1.7	77
AUG.										
20...	1100	24	25	30	--	20	3.5	8.7	1.9	93
SEP.										
19...	1015	15	26	10	--	23	3.2	9.1	2.0	106

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

09343300 RIO BLANCO BELOW BLANCO DIVERSION DAM, NEAR PAGOSA SPRINGS, COLO.--Continued

DATE	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)
APR. 23...	0	8.9	1.0	.2	--	--	--	.04	--
MAY 29...	0	5.1	.5	.0	--	--	--	.00	--
JUNE 11...	--	5.1	.3	.1	.04	.00	.04	.04	.01
JULY 03...	0	6.9	.7	.1	--	--	--	.00	--
24...	--	6.3	.6	.1	--	--	--	.05	--
AUG. 20...	--	6.6	.2	.1	--	--	--	.03	--
SEP. 19...	--	6.9	1.4	.2	--	--	--	.00	--

DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)
APR. 23...	--	--	--	.00	80	84	43	0	.5
MAY 29...	--	--	--	.05	52	55	25	0	.3
JUNE 11...	.23	.28	.03	.03	79	69	33	0	.4
JULY 03...	--	--	--	.04	98	98	51	0	.4
24...	--	--	--	.01	89	97	52	0	.4
AUG. 20...	--	--	--	.04	101	112	64	0	.5
SEP. 19...	--	--	--	.03	118	124	71	0	.5

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
APR. 23...	116	8.1	--	7.5	--	--	--	--	10
MAY 29...	71	7.7	--	13.5	3	--	--	--	20
JUNE 11...	94	7.8	23.5	9.0	2	9.0	41	1.8	20
JULY 03...	134	7.8	--	10.0	2	--	--	--	20
24...	133	--	--	10.0	8	--	--	--	10
AUG. 20...	159	--	--	13.0	2	--	--	--	10
SEP. 19...	179	--	--	8.5	1	--	--	--	10

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)
JUNE 11...	1030	1	0	20	0	0	0

DATE	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
JUNE 11...	20	<100	0	.0	0	1	20

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

09343300 RIO BLANCO BELOW BLANCO DIVERSION DAM NEAR PAGOSA SPRINGS, COLO.--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDIM- ENT CHARGE (MG/L) (80154)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY) (80155)
APR. 16...	1100	131	3.9	8	21	13	.74
MAY 13...	1215	84	9.0	31	280	1310	990
14...	1215	78	9.0	10	270	165	120
29...	1400	71	13.5	3	42	13	1.5
JUNE 11...	1030	94	9.0	2	22	13	.77
13...	1400	99	14.0	2	23	4	.25
JULY 03...	0930	134	10.0	2	22	6	.36
24...	0930	133	10.0	8	23	27	1.7
AUG. 05...	1400	101	18.0	7	23	47	2.9
05...	1430	109	18.5	7	89	22	5.3
20...	1100	159	13.0	2	24	2	.13
SEP. 04...	0915	181	9.0	2	17	4	.18
19...	1015	179	8.5	1	15	3	.12
OCT. 02...	0915	184	6.0	1	13	3	.11

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM (70331)	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM (70332)	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM (70333)	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM (70334)	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM (70336)
APR. 16...	95	100	--	--	--	--
MAY 13...	16	31	60	85	89	94
14...	20	29	59	87	94	95
29...	61	81	100	--	--	--
JUNE 11...	50	60	70	78	100	--
13...	75	100	--	--	--	--
JULY 03...	84	92	100	--	--	--
24...	60	64	68	85	95	100
AUG. 05...	80	91	96	100	--	--
05...	77	86	89	92	92	100
20...	58	82	100	--	--	--
SEP. 04...	76	78	100	--	--	--
19...	57	70	100	--	--	--
OCT. 02...	58	73	100	--	--	--

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

09343400 RIO BLANCO AT U.S. HIGHWAY 84, NEAR PAGOSA SPRINGS, COLO.
(LAT 37°08'30", LONG 106°50'24".10)

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)
APR. 23...	1130	30	17	30	23	6.2	11	1.7
MAY 29...	1315	40	17	20	11	2.0	4.6	1.0
JULY 03...	1045	20	23	20	19	3.4	7.4	1.9
24...	1100	22	22	10	19	3.5	8.4	1.8
AUG. 20...	1000	20	22	20	20	3.2	8.8	1.8
SEP. 19...	1100	15	22	10	24	3.4	9.5	1.9

DATE	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)
APR. 23...	91	0	32	1.7	.2	.01	.03	130	138
MAY 29...	44	0	8.4	.5	.0	.00	.05	63	66
JULY 03...	90	0	9.1	.7	.1	.00	.03	112	109
24...	86	--	8.9	.8	.1	.01	.01	101	107
AUG. 20...	99	--	8.3	.3	.1	.01	.00	106	113
SEP. 19...	111	--	9.2	1.3	.2	.00	.01	126	126

DATE	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AU- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED BORON (B) (UG/L) (01020)
APR. 23...	83	8	.5	210	8.0	9.0	--	30
MAY 29...	36	0	.3	92	8.0	16.5	--	9
JULY 03...	61	0	.4	156	8.2	15.0	1	20
24...	62	0	.5	153	--	19.0	7	10
AUG. 20...	63	0	.5	170	--	16.0	3	20
SEP. 19...	74	0	.5	188	--	12.0	1	10

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE MENT SEDIM- ENT (MG/L) (80154)	SUS- PENDE MENT SEDIM- ENT (MG/L) (80155)	SUS. SED. FALL DIAM. X FINER THAN .062 MM (70342)
APR. 16...	1200	226	5.5	9	25	16	1.1	--
MAY 13...	1415	210	11.0	400	280	7030	5310	79
14...	1525	101	15.0	52	270	686	500	58
JUNE 13...	1500	117	21.5	1	20	4	.22	--
JULY 03...	1045	156	15.0	1	20	4	.22	--
24...	1100	153	19.0	7	22	16	.95	--
AUG. 05...	1500	250	20.5	25	20	53	2.9	--
20...	1000	170	16.0	3	20	11	.59	--
SEP. 04...	1015	190	12.0	2	17	7	.32	--
19...	1100	188	12.0	1	15	9	.36	--
OCT. 02...	1000	194	7.0	1	13	6	.21	--

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

09343400 RIO BLANCO AT U.S. HIGHWAY 84, NEAR PAGOSA SPRINGS, COLO.--Continued

DATE	SUS. SED. FALL DIAM. % FINER THAN ,125 MM (70343)	SUS. SED. FALL DIAM. % FINER THAN ,250 MM (70344)	SUS. SED. FALL DIAM. % FINER THAN ,500 MM (70345)	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM (70346)	SUS. SED. SIEVE DIAM. % FINER THAN ,062 MM (70331)	SUS. SED. SIEVE DIAM. % FINER THAN ,125 MM (70332)	SUS. SED. SIEVE DIAM. % FINER THAN ,250 MM (70333)	SUS. SED. SIEVE DIAM. % FINER THAN ,500 MM (70334)
APR. 16...	--	--	--	--	77	81	90	100
MAY 13...	85	92	98	100	--	--	--	--
14...	75	91	99	100	--	--	--	--
JUNE 13...	--	--	--	--	90	100	--	--
JULY 03...	--	--	--	--	82	96	100	--
24...	--	--	--	--	85	92	96	100
AUG. 05...	--	--	--	--	91	93	99	100
20...	--	--	--	--	67	78	91	100
SEP. 04...	--	--	--	--	60	72	85	100
19...	--	--	--	--	74	83	90	100
OCT. 02...	--	--	--	--	60	75	83	100

09344300 NAVAJO RIVER ABOVE CHROMO, COLO. (LAT 37°01'55", LONG 106°43'56".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (MG/L) (00955)	DIS- SOLVED IRON (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
APR. 23...	1030	100	21	20	--	19	3.6	7.0	1.3	51
MAY 29...	1015	213	18	40	--	8.9	1.4	3.3	.8	28
JUNE 12...	0945	157	21	200	10	12	1.8	4.0	1.0	34
JULY 03...	1330	65	26	20	--	17	2.4	5.4	1.2	45
24...	1345	81	24	20	--	14	2.6	5.0	1.2	38
AUG. 20...	1400	38	28	30	--	19	3.1	6.5	1.7	54
SEP. 19...	1315	34	29	20	--	21	2.9	7.6	1.4	55

DATE	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA GEN (N) (MG/L) (00610)
APR. 23...	0	36	.9	.2	--	--	--	.00	--
MAY 29...	0	14	.8	.1	--	--	--	.00	--
JUNE 12...	--	17	.6	.2	.02	.00	.03	.02	.01
JULY 03...	0	33	.8	.1	--	--	--	.00	--
24...	--	26	.0	.1	--	--	--	.02	--
AUG. 20...	--	34	1.1	.2	--	--	--	.03	--
SEP. 19...	--	36	.8	.2	--	--	--	.00	--

DATE	TOTAL ORGANIC NITRO- GEN (N) (00605)	TOTAL NITRO- GEN (N) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA+MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)
APR. 23...	--	--	--	.15	112	115	62	20	.4
MAY 29...	--	--	--	1.2	60	65	28	5	.3
JUNE 12...	.22	.26	.02	.02	82	75	37	9	.3
JULY 03...	--	--	--	.09	111	108	52	15	.3
24...	--	--	--	.04	83	92	46	15	.3
AUG. 20...	--	--	--	.05	116	121	60	16	.4
SEP. 19...	--	--	--	.05	125	126	64	19	.4

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

09344300 NAVAJO RIVER ABOVE CHROMO, COLO.--Continued

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
APR. 23...	168	8.0	--	5.0	--	--	--	--	10
MAY 29...	78	7.5	--	7.5	11	--	--	--	10
JUNE 12...	96	7.7	19.5	6.0	3	9.6	5	1.5	20
JULY 03...	141	7.8	--	17.0	1	--	--	--	10
24...	131	--	--	17.0	22	--	--	--	20
AUG. 20...	162	--	--	17.0	2	--	--	--	20
SEP. 19...	175	--	--	14.0	1	--	--	--	30

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)
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JUNE 12...	0945	0	0	20	0	0	0
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DATE	TIME	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
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JUNE 12...	200	<100	10	.0	0	0	10
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DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE SEDI- MENT (MG/L) (80154)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY) (80155)
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APR. 16...	1505	193	6.5	7	80	14	3.0
MAY 09...	1045	112	10.0	28	280	168	127
12...	1230	100	10.0	17	300	138	112
29...	1015	78	7.5	11	213	119	68
JUNE 12...	0945	96	6.0	3	157	14	5.9
14...	1000	102	8.0	2	144	10	3.9
JULY 03...	1330	141	17.0	1	65	2	.35
24...	1345	131	17.0	22	81	63	14
AUG. 06...	1015	125	10.5	11	92	53	13
20...	1400	162	17.0	2	38	11	1.1
23...	0900	166	8.0	2	30	7	.57
27...	1045	168	10.0	2	30	8	.65
SEP. 04...	1300	174	15.0	1	27	4	.29
19...	1315	175	14.0	1	34	3	.28
OCT. 02...	1115	178	6.0	1	31	5	.42

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

09344300 NAVAJO RIVER ABOVE CHROMO, COLO.--Continued

DATE	SUS. SED. SIEVE DIAM. % FINER THAN ,062 MM (70331)	SUS. SED. SIEVE DIAM. % FINER THAN ,125 MM (70332)	SUS. SED. SIEVE DIAM. % FINER THAN ,250 MM (70333)	SUS. SED. SIEVE DIAM. % FINER THAN ,500 MM (70334)	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM (70336)
APR. 16...		89	93	100	--	--
MAY 09...		56	68	82	95	98
12...		53	67	81	94	98
29...		38	53	70	88	93
JUNE 12...		56	76	90	100	--
14...		56	70	88	100	--
JULY 03...		82	84	92	100	--
24...		95	98	99	100	--
AUG. 06...		78	93	98	100	--
20...		76	86	92	100	--
23...		86	90	96	100	--
27...		91	95	99	100	--
SEP. 04...		65	70	97	100	--
19...		77	82	85	100	--
OCT. 02...		63	78	88	100	--

09344450 NAVAJO RIVER BELOW OSO DIVERSION DAM, NEAR CHROMO, COLO.
(LAT 37°31'48", LONG 106°44'16".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MNI) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)
APR. 23...	1010	39	21	20	--	20	3.7	6.9	1.0	54
MAY 29...	1100	90	18	40	--	9.4	1.5	3.4	.8	28
JUNE 12...	1115	59	21	160	0	12	1.8	4.2	1.0	35
JULY 03...	1300	59	26	20	--	17	2.8	5.4	1.2	48
24...	1300	59	23	10	--	14	2.7	4.8	1.3	37
AUG. 20...	1430	45	28	10	--	19	2.5	6.7	1.4	54
SEP. 19...	1245	34	29	10	--	21	2.9	7.7	1.3	58

DATE	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)
APR. 23...	0	37	1.5	.3	--	--	--	.09	--
MAY 29...	0	12	.6	.0	--	--	--	.00	--
JUNE 12...	--	16	.6	.2	.01	.01	.02	.02	.02
JULY 03...	0	31	.7	.1	--	--	--	.00	--
24...	--	26	.5	.1	--	--	--	.03	--
AUG. 20...	--	34	.9	.1	--	--	--	.01	--
SEP. 19...	--	37	.1	.2	--	--	--	.00	--

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

09344450 NAVAJO RIVER BELOW OSO DIVERSION DAM, NEAR CHROMO, COLO.--Continued

DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)
APR. 23...	--	--	--	.03	115	119	65	21	.4
MAY 29...	--	--	--	.06	61	60	30	7	.3
JUNE 12...	.25	.29	.03	.03	84	75	37	9	.3
JULY 03...	--	--	--	.04	109	108	54	15	.3
24...	--	--	--	.01	92	91	46	16	.3
AUG. 20...	--	--	--	.02	111	119	58	13	.4
SEP. 19...	--	--	--	.04	133	128	64	17	.4

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	FECAL COLI- FORM (COL. PER 100 ML) (31616)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
APR. 23...	173	7.9	--	4.0	--	--	--	--	20
MAY 29...	80	7.5	--	7.0	28	--	--	--	7
JUNE 12...	380	7.7	22.0	8.0	3	9.6	3	1.6	20
JULY 03...	148	7.7	--	12.5	1	--	--	--	10
24...	123	--	--	14.0	49	--	--	--	10
AUG. 20...	163	--	--	14.0	3	--	--	--	20
SEP. 19...	179	--	--	9.5	2	--	--	--	10

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)
JUNE 12...	1115	1	100	20	0	0	1

DATE	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
JUNE 12...	160	100	0	.0	0	0	10

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

09344450 NAVAJO RIVER BELOW OSO DIVERSION DAM, NEAR CHROMO, COLO.--Continued

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE- D SEDI- MENT (MG/L) (80154)	SUS- PENDE- D SEDI- MENT (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN ,062 MM (70342)	SUS. SED. FALL DIAM. % FINER THAN ,125 MM (70343)
APR.									
16...	1430	193	6.5	8	38	15	1.5	--	--
MAY									
09...	1110	183	9.5	1200	280	46900	35500	34	61
12...	0900	81	5.0	22	300	287	232	--	--
29...	1100	80	7.0	28	90	105	26	--	--
JUNE									
12...	1115	380	8.0	3	59	9	1.4	--	--
14...	1015	102	8.0	4	59	10	1.6	--	--
JULY									
03...	1300	148	12.5	1	59	4	.64	--	--
24...	1300	123	14.0	49	59	100	16	--	--
AUG.									
06...	1045	125	11.0	8	59	30	4.8	--	--
20...	1430	163	14.0	3	45	11	1.3	--	--
23...	0930	169	9.5	140	31	878	73	95	100
27...	1030	174	10.5	2	30	21	1.7	--	--
SEP.									
04...	1230	178	12.0	1	25	10	.68	--	--
19...	1245	179	9.5	2	34	4	.37	--	--
OCT.									
02...	1100	181	7.0	1	31	7	.59	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN ,250 MM (70344)	SUS. SED. FALL DIAM. % FINER THAN ,500 MM (70345)	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM (70346)	SUS. SED. FALL DIAM. % FINER THAN ,062 MM (70331)	SUS. SED. FALL DIAM. % FINER THAN ,125 MM (70332)	SUS. SED. FALL DIAM. % FINER THAN ,250 MM (70333)	SUS. SED. FALL DIAM. % FINER THAN ,500 MM (70334)	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM (70335)	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM (70336)
APR.									
16...	--	--	--	91	95	100	--	--	--
MAY									
09...	88	99	100	--	--	--	--	--	--
12...	--	--	--	27	36	54	82	91	100
29...	--	--	--	83	93	94	97	100	--
JUNE									
12...	--	--	--	81	91	100	--	--	--
14...	--	--	--	96	98	100	--	--	--
JULY									
03...	--	--	--	81	87	93	100	--	--
24...	--	--	--	99	99	100	--	--	--
AUG.									
06...	--	--	--	82	91	100	--	--	--
20...	--	--	--	71	100	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
27...	--	--	--	41	62	81	100	--	--
SEP.									
04...	--	--	--	64	100	--	--	--	--
19...	--	--	--	97	100	--	--	--	--
OCT.									
02...	--	--	--	58	100	--	--	--	--

09345250 LITTLE NAVAJO RIVER BELOW LITTLE OSO DIVERSION, COLO.
(LAT 37°04'26", LONG 106°49'04".10)

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	SUS- PENDE- D SEDI- MENT (MG/L) (80154)	SUS- PENDE- D SEDI- MENT (T/DAY) (80155)	SUS. SED. FALL DIAM. % FINER THAN ,062 MM (70342)
APR.								
16...	1330	240	4.0	45	4.0	92	.99	--
28...	0845	150	--	65	5.0	192	2.6	--
28...	1045	226	--	440	25	4000	270	84
29...	0910	151	--	77	25	382	26	--
MAY								
09...								
12...								
29...								
JUNE								
12...								
14...								
JULY								
03...								
24...								
AUG.								
06...								
20...								
23...								
27...								
SEP.								
04...								
19...								
OCT.								
02...								

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

09367561 SHUMWAY ARROYO NEAR WATERFLOW, N. MEX. (LAT 36°46'24", LONG 108°26'26".00)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	
SEP, 14...	1615	--	12	--	--	440	810	1900	23	173	
22...	1100	--	.6	--	--	140	74	270	6.1	127	
OCT, 20...	1730	--	8.8	--	--	160	130	450	8.6	157	
24...	1330	.20	.0	0	--	200	260	900	8.2	118	
27...	1700	--	13	--	--	72	16	160	7.3	184	
NOV, 03...	1530	--	7.4	--	--	200	92	440	6.8	30	
21...	1430	.50	--	--	--	--	--	--	--	--	
DEC, 18...	1345	.15	24	16000	980	530	330	1400	14	0	
DATE		CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)
SEP, 14...	0	7200	620	.9	--	--	--	55	--	--	--
22...	0	940	99	.7	--	--	--	3.3	--	--	--
OCT, 20...	0	1400	200	.7	--	--	--	9.5	--	--	--
24...	0	2800	340	.6	--	--	--	20	--	--	--
27...	0	390	28	.9	--	--	--	4.1	--	--	--
NOV, 03...	0	1600	140	.7	--	--	--	7.9	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
DEC, 18...	--	4800	530	1.2	24	.00	25	24	.67	.63	
DATE		TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	TOTAL ACIDITY AS H+ (MG/L) (71825)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)
SEP, 14...	--	--	--	--	11300	4400	4300	--	12	12330	
22...	--	--	--	--	1610	650	550	--	4.6	2260	
OCT, 20...	--	--	--	--	2480	930	810	--	6.4	3390	
24...	--	--	.00	--	4660	1600	1500	--	9.9	5730	
27...	--	--	--	--	796	250	95	--	4.4	1200	
NOV, 03...	--	--	--	--	2540	880	850	--	6.5	3250	
21...	--	--	--	--	--	--	--	--	--	7910	
DEC, 18...	26	.87	.51	8210	7760	2700	2700	6.4	12	9370	
DATE	PH (UNITS) (00400)	AIR TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED OXYGEN (MG/L) (00300)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	FECAL CULI- FORM (COL. PER (31616)	STREP- TOCOCCI (COL- ONIES PER (31679)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)	
SEP, 14...	10.4	--	24.0	--	--	--	--	--	--	700	
22...	9.6	--	16.5	--	--	--	--	--	--	320	
OCT, 20...	7.7	--	14.0	--	--	--	--	--	--	290	
24...	7.7	--	16.0	--	--	--	--	--	--	340	
27...	8.3	--	8.0	--	--	--	--	--	--	120	
NOV, 03...	6.9	--	9.0	--	--	--	--	--	--	310	
21...	3.2	--	1.0	--	--	--	--	--	--	--	
DEC, 18...	2.6	-2.0	.0	10	11.2	37	0	0	12	1000	

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

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WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

09367561 SHUMWAY ARROYO NEAR WATERFLOW, N. MEX.--Continued

DATE	TIME	TOTAL ARSENIC (AS) (UG/L) (01002)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	DIS- SOLVED COBALT (CO) (UG/L) (01035)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)
OCT. 24...	1330	1	--	340	--	--	--	--	--
NOV. 21...	1430	1	--	--	--	--	--	--	--
DEC. 18...	1345	9	13	1000	0	20	6	100	23000

DATE	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	TOTAL SELE- NIUM (SE) (UG/L) (01147)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)
OCT. 24...	0	<100	--	--	--	--	--	18	--
NOV. 21...	--	200	--	--	--	--	--	--	--
DEC. 18...	16000	100	7	260	980	.1	<.1	18	13

DATE	DIS- SOLVED ZINC (ZN) (UG/L) (01090)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L) (80030)	SUS- PENDE GROSS ALPHA AS U-NAT. (UG/L) (80040)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L) (03515)	SUS- PENDE GROSS BETA AS CS-137 (PC/L) (03516)	DIS- SOLVED GROSS BETA AS AS SR90 (PC/L) (80050)	SUS- PENDE GROSS BETA AS AS SR90 (PC/L) (80060)	DIS- SOLVED RA-226 NATURAL METHOD (U) (PC/L) (09511)	DIS- SOLVED NATURAL URANIUM (U) (UG/L) (22703)
OCT. 24...	--	--	--	--	--	--	--	--	--
NOV. 21...	--	--	--	--	--	--	--	--	--
DEC. 18...	180	<89	2.4	65	1.1	55	.9	.11	12

PHYTOPLANKTON

DATE	PHYLUM .Class ..Order ...Family....Genus.....Species	COMMON NAME	PERCENT OF TOTAL
DEC 18...	CYANOPHYTA .Myxophyceae....Lyngbya (Codominant)	Blue-green algae	74
	CHRYSTOPHYTA .Bacillariophyceae....Nitzschia (Codominant) ....Navicula....Gomphonema	Diatoms	18 7 1

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

RIO GRANDE ABOVE NEW MEXICO-TEXAS STATE LINE, N. MEX. (LAT 31°48'12", LONG 106°32'42".10)

		INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	
DATE	TIME											
FEB, 13...	1245	43	29	10	130	31	390	11	348	0	580	
		DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
DATE	TIME											
FEB, 13...	310	.9	.38	1660	450	170	8.0	2420	8.2	12.0	450	

RIO GRANDE AT HIGHWAY BRIDGE 225, NEAR ANTHONY, N. MEX. (LAT 31°59'57", LONG 106°38'06".10)

DATE	TIME	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
FEB, 13...	1150	21	10	150	29	210	11	294	0	440	200
DATE	TIME	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
FEB, 13...		.7	2.6	1220	490	250	4.1	1820	7.8	11.0	290

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

PECOS RIVER AT FIRST FORD, N. MEX. (LAT 32°10'42", LONG 103°59'50".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)
JAN,					
04...	1030	42	2950	11400	3.0
18...	1045	--	3250	12100	10.0
25...	1015	--	3100	11800	6.0
FEB,					
01...	0955	--	3310	12200	7.0
08...	0950	29	3120	11900	5.0
15...	0945	--	4800	16700	10.0
22...	1015	--	4680	16200	7.0
MAR,					
01...	0950	--	3580	13200	11.0
08...	1045	22	4300	15100	13.0
15...	0945	--	5050	17200	15.5
21...	0950	--	5120	17300	11.0
28...	1000	--	6020	19800	16.5
APR,					
04...	1000	--	7880	24700	13.5
11...	1100	6.0	11400	34100	14.0
18...	1155	--	10100	30100	22.0
25...	1015	--	12800	37000	20.5
MAY					
02...	0950	--	10400	31300	20.0
09...	1015	--	10800	32000	19.0
16...	1005	--	14900	42000	22.0
23...	1005	--	8900	27300	22.0
30...	1210	--	6500	21300	25.0
JUNE					
06...	1055	--	7420	23800	25.0
13...	1040	12	11600	34200	25.0
20...	1310	--	11600	33900	30.5
26...	0945	--	13000	38000	23.0
JULY					
04...	1010	--	8850	27500	--
11...	1205	16	5400	18400	27.5
18...	1025	--	8100	25100	28.0
25...	1030	--	9800	29200	26.5
AUG,					
02...	1050	11	8500	26400	27.0
10...	1010	--	4800	16600	25.0
16...	1210	--	11100	32300	30.5
SEP,					
06...	1200	14	5750	18600	25.5
13...	1010	--	6100	19700	19.0
NOV,					
18...	1140	--	1680	6840	13.0
DEC,					
27...	1000	--	1740	7250	6.5
31...	1230	161	1660	7060	9.5

08405450 BLUE SPRINGS ABOVE DIVERSIONS, N. MEX. (LAT 32°11'05", LONG 104°17'05".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PU- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)
JAN,									
04...	1345	9.1	--	--	--	--	--	--	--
25...	1230	--	--	--	--	--	--	--	--
FEB,									
07...	0910	9.0	--	--	--	--	--	--	--
22...	1210	10	--	--	--	--	--	--	--
MAR,									
07...	0935	9.9	--	--	--	--	--	--	--
21...	1300	9.5	--	--	--	--	--	--	--
APR,									
04...	1040	9.7	--	--	--	--	--	--	--
25...	1315	9.2	--	--	--	--	--	--	--
MAY									
03...	0840	9.3	--	--	--	--	--	--	--
AUG,									
10...	1255	8.2	14	260	42	12	1.3	204	620
SEP,									
20...	1210	9.0	--	--	--	--	--	--	--
OCT,									
11...	1420	11	--	--	--	--	--	--	--
18...	1510	12	--	--	--	--	--	--	--
NOV,									
04...	1600	13	--	--	--	--	--	--	--
14...	1325	--	--	--	--	--	--	--	--
25...	1315	14	--	--	--	--	--	--	--
DEC,									
12...	0900	14	--	--	--	--	--	--	--
27...	1220	14	--	--	--	--	--	--	--

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

08405450 BLUE SPRINGS ABOVE DIVERSIONS, N. MEX.--Continued

DATE	DIS- SOLVED CHLORIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUORIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)
JAN.									
04...	12	--	--	--	--	--	--	1430	17.0
25...	11	--	--	--	--	--	--	1690	16.0
FEB.									
07...	13	--	--	--	--	--	--	1480	17.0
22...	12	--	--	--	--	--	--	1410	18.5
MAR.									
07...	12	--	--	--	--	--	--	1410	16.0
21...	12	--	--	--	--	--	--	1470	17.5
APR.									
04...	12	--	--	--	--	--	--	1420	20.0
25...	14	--	--	--	--	--	--	1430	21.0
MAY									
03...	16	--	--	--	--	--	--	1450	--
AUG.									
10...	10	.4	.65	1060	820	660	.2	1460	23.5
SEP.									
20...	54	--	--	--	--	--	--	1540	19.5
OCT.									
11...	14	--	--	--	--	--	--	1400	20.0
18...	16	--	--	--	--	--	--	1330	21.5
NOV.									
04...	22	--	--	--	--	--	--	1450	18.5
14...	16	--	--	--	--	--	--	1420	--
25...	12	--	--	--	--	--	--	1280	17.5
DEC.									
12...	16	--	--	--	--	--	--	1440	--
27...	16	--	--	--	--	--	--	1350	17.0

ANDERSON (NE DEPRESSION) LAKE NEAR MALAGA, N. MEX.
(LAT 32°11'55", LONG 104°00'35".10)

DATE	TIME	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	BROMIDE (BR) (MG/L) (71870)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
FEB.							
25...	1045	--	141000	--	210000	13.5	--
JULY							
30...	1630	1.2	1400	27.5	4100	--	20
30...	1800	3500	93000	--	--	--	17000
DEC.							
16...	1010	--	141000	--	213000	18.5	--

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

PECOS RIVER AT FISHING ROCK CROSSING, N. MEX. (LAT 32°13'05", LONG 104°00'08".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (000011)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MMHS) (00095)	TEMPER- ATURE (DEG C) (00010)
JAN.					
04...	1205	44	1500	7110	5.0
11...	1315	--	1470	7030	9.0
18...	1115	--	1490	6850	9.0
25...	1050	--	1510	6990	6.5
28...	1100	--	905	4920	12.5
FEB.					
01...	1140	--	1460	6850	10.0
08...	1115	27	1680	7610	7.0
15...	1015	--	1800	7920	11.0
22...	1115	--	1440	6960	7.5
MAR.					
01...	1135	--	1450	6780	12.0
08...	1105	25	1750	7800	15.5
15...	1010	--	1710	7770	16.5
21...	1110	--	1980	8710	11.5
28...	1045	--	2190	9350	17.0
APR.					
04...	1020	--	1740	7950	14.5
11...	1310	8.0	1850	8420	16.0
18...	1215	--	1960	8570	20.0
25...	1045	--	2190	9280	20.0
MAY					
02...	1230	18	2280	9630	21.5
09...	1055	--	2240	9540	20.0
16...	1040	--	2040	8860	22.0
23...	1100	--	2190	9310	23.0
30...	1310	--	2250	9530	24.0
JUNE					
13...	1150	10	2380	9970	24.0
20...	--	--	2260	9520	29.0
26...	1030	--	2410	0000	24.0
JULY					
04...	1130	--	2510	0300	25.0
11...	1345	15	1640	7530	28.5
18...	1205	--	1940	8360	26.5
25...	1340	--	2060	9050	29.5
AUG.					
02...	1240	9.8	2300	9450	28.0
10...	1100	--	1500	7380	26.0
16...	1245	--	1520	7150	29.0
23...	1030	--	1140	5750	23.0
SEP.					
06...	1335	14	1400	6520	24.5
13...	1045	--	1950	8370	21.0
20...	1045	--	1850	7920	21.0
OCT.					
04...	1130	--	1000	4500	20.0
11...	1300	--	910	4320	20.5
18...	1230	--	965	4550	19.0
NOV.					
18...	1330	162	825	4410	16.0
25...	1045	--	905	4730	13.0
DEC.					
02...	1010	--	895	4860	10.0
20...	1135	--	885	4810	7.0
31...	1400	142	850	4910	9.5

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

HARROUN CANAL AT FISHING ROCK CROSSING, N. MEX. (LAT 32°13'20", LONG 104°00'50".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (000061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PU- TAS- SIUM (K) (MG/L) (00935)	BICAR- MONATE (HCO3) (MG/L) (00440)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)
JUNE									
06...	1245	11	--	--	--	--	--	--	--
13...	1250	11	--	--	--	--	--	--	--
JULY									
18...	1230	6.7	--	--	--	--	--	--	--
25...	1420	4.6	--	--	--	--	--	--	--
AUG.									
02...	1320	6.4	--	--	--	--	--	--	--
10...	1130	3.0	--	--	--	--	--	--	--
16...	1320	7.0	13	590	270	980	16	167	2000

DATE	TIME	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)
JUNE										
06...	1340	--	--	--	--	--	--	--	7270	27.5
13...	1390	--	--	--	--	--	--	--	7070	25.0
JULY										
18...	1710	--	--	--	--	--	--	--	8240	28.0
25...	1560	--	--	--	--	--	--	--	7690	31.5
AUG.										
02...	1810	--	--	--	--	--	--	--	8520	28.5
10...	1790	--	--	--	--	--	--	--	8370	26.5
16...	1700	.8	1.5	5660	2600	2400	8.4	8300	29.0	

SURPRISE SPRINGS AT POND NEAR MOUTH, AT LAGUNA GRANDE, N. MEX. (LAT 32°19'44", LONG 103°59'35".10)

DATE	TIME	DIS=	DIS=	DIS=	DIS=	DIS=	DIS=	BICAR=	CAR=	DIS=	DIS=
		SOLVED SILICA (SI02) (MG/L) (00955)	SOLVED IRON (FE) (UG/L) (01046)	SOLVED CAL=CIUM (CA) (MG/L) (00915)	SOLVED MAG=NE=SIUM (MG) (MG/L) (00925)	SOLVED SODIUM (NA) (MG/L) (00930)	SOLVED PO=TA=SIUM (K) (MG/L) (00935)			SOLVED SULFATE (SO4) (MG/L) (00945)	SOLVED CHLO=RIDE (CL) (MG/L) (00940)
FEB. 19...	1620	54	20	1700	1100	7700	400	219	0	2900	16000
DATE	TIME	DIS=	DIS=	DIS=	DIS=	DIS=	NON=	SODIUM	PH	TOTAL	DIS=
		SOLVED FLUO=RIE (F) (MG/L) (00950)	SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	SOLVED ORTHO=PHOS=PHORUS (P) (MG/L) (00671)	SOLVED SOLIDS (RESI= DUE AT 180 C) (MG/L) (70300)	SOLVED SOLIDS (SUM OF CONSTI= TUENTS) (MG/L) (70301)	HARD= NESS (CA, MG) (MG/L) (00900)	BONATE HARD= NESS (MG/L) (00902)		AD= SORP= TION RATIO (MG/L) (00931)	ORGANIC CARBON (C) (MG/L) (00680)
FEB. 19...	4.8	.04	.26	32200	30000	8800	8600	36	7.8	3.3	2400

SURPRISE SPRINGS ABOVE POND NEAR MOUTH, AT LAGUNA GRANDE, N. MEX. (LAT 32°19'45", LONG 103°59'35".10)

		INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PU- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	
DATE	TIME												
FEB. 19...	1645	2.0	65	60	1600	1200	6700	230	253	0	3000	15000	
DATE	TIME	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
FEB. 19...	23	.04	.18	27600	27900	8900	8700	31	39600	7.8	2.7	2600	

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

NASH DRAW NORTH OF LAGUNA DEL SOL, N. MEX. (LAT 32°20'05", LONG 103°58'50".10)

DATE	TIME	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
FEB, 19...	1600	33	120	1600	5300	61000	11000	226	0	7600	120000

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	PH (UNITS) (00400)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
FEB. 19...	5.7	.05	.74	214000	207000	26000	26000	165	7.6	12	5500

RIO GRANDE BELOW LEASBURG DAM, N. MEX. (LAT 32°28'36", LONG 106°55'03".10)

DATE	TIME	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
FEB, 12...	0845	21	80	140	30	210	11	234	0	450	200

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
FEB. 12...	.8	.03	1180	470	280	4.2	1780	8.0	3.5	280

PIPE LEAK ABOVE PECOS RIVER NEAR ARTESIA, N. MEX. (LAT 32°50'26", LONG 104°19'23".10)

DATE	TIME	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)
MAR, 01...	1210	29	30	180	61	250	16	528	0	440	310	1.5

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
MAR, 01...	.00	6.6	1580	1570	700	270	4.1	2590	7.2	180	580

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

LOS CHAVEZ LATERAL NEAR BELEN, N. MEX. (LAT 34°39'56", LONG 106°45'11".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
MAR, 11...	1420	--	25	10	56	9.1	37	4.9	178	0	89	18
JUNE 30...	1130	32	33	10	25	13	120	1.4	177	0	120	55

DATE	TIME	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00900)	DIS- SOLVED SODIUM (NA) (MG/L) (00902)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
MAR, 11...		.6	.28	.26	332	330	180	31	1.2	525	7.9	10.0	100
JUNE 30...		1.1	7.8	.03	474	491	120	0	4.9	781	8.2	21.0	260

SAUSAL DRAIN AT SAUSAL ROAD, NEAR BELEN, N. MEX. (LAT 34°40'04", LONG 106°45'36".10)

DATE	TIME	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)
MAR, 11...	1505	27	10	61	12	86	6.6	221	0	170	32	.7

DATE	TIME	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00900)	DIS- SOLVED SODIUM (NA) (MG/L) (00902)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
MAR, 11...		.36	.30	509	507	200	20	2.6	785	7.8	11.0	190

ALBUQUERQUE WASTE DRAIN, N. MEX. (LAT 35°05'59", LONG 106°41'12".01)

DATE	TIME	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	BICAR-	CAR-	DIS-	DIS-
		SOLVED SILICA (SI02) (MG/L) (00955)	SOLVED IRON (FE) (UG/L) (01046)	SOLVED CAL- CIUM (CA) (MG/L) (00915)	SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	SOLVED SODIUM (NA) (MG/L) (00930)	SOLVED PO- TAS- SIUM (K) (MG/L) (00935)			SOLVED SULFATE (SO4) (MG/L) (00945)	SOLVED CHLO- RIDE (CL) (MG/L) (00940)
MAR,											
05...	0700	7.7	10	15	4.5	120	14	58	0	86	120
06...	0800	13	--	20	3.4	12	4.2	43	0	21	17
07...	0900	5.3	0	49	11	17	5.1	54	0	52	68
08...	1000	6.3	--	24	7.0	17	2.0	60	0	46	20
09...	1100	13	10	59	11	25	9.7	60	0	50	89
10...	1200	7.4	10	13	2.0	25	3.4	31	0	32	22

DATE	TIME	DIS-	DIS-	DIS-	HARD-	NON-	SODIUM	SPE-	PH	DIS-	
		SOLVED FLUO- RIDE (F) (MG/L) (00950)	SOLVED NITRITE PLUS NITRATE (N) (MG/L) (71870)	SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)				AD- SORP- TION RATIO (MG/L) (00902)			CIF1 CON- DUCT- ANCE (MICRO- MHOS) (00095)	SOLVED BORON (B) (UG/L) (01020)
MAR,											
05...		.9	--	4.5	56	9	7.0	767	7.7	250	
06...		1.1	--	2.6	125	29	.7	206	7.9	--	
07...		1.1	.3	1.9	244	170	.6	464	7.9	150	
08...		1.0	.3	.17	154	89	.8	266	7.9	--	
09...		1.0	--	5.5	312	190	.8	564	8.1	180	
10...		1.4	-0	1.1	126	41	15	1.7	224	7.6	50

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

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WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

ALBUQUERQUE WASTE DRAIN, N. MEX.--Continued

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED STRON- TIUM (SR) (UG/L) (01080)
MAR,					
05...	0700	25	250	10	160
06...	0800	26	--	--	100
07...	0900	13	150	0	--
09...	1100	--	180	10	170
10...	1200	4	50	10	--

LAS HUERTAS CREEK AT LAS HUERTAS PICNIC GROUND, NEAR PLACITAS, N. MEX.
(LAT 35°14'01", LONG 106°24'41".01)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED CHLU- RIDE (CL) (MG/L) (00940)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)
SEP,									
10...	1700	10	4.4	19	13.0	20	2	20	0

RIO GRANDE AT HIGHWAY 44, BERNALILLO, N. MEX. (LAT 35°19'20", LONG 106°33'27".10)

DATE	TIME	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
FEB,										
14...	1530	28	10	0	48	9.3	40	3.9	84	24

DATE	TIME	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	BROMIDE (BR) (MG/L) (71870)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	HARD- NESS (CA,MG) (MG/L) (00900)	SODIUM AD- SORP- TION RATIO (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
FEB,											
14...	.5	.1	.27	.06	160	1.4	498	8.0	6.0	140	

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
FEB,						
14...	1530	3	140	10	110	0

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

RIO SALADO SOUTH OF SAN YSIDRO, N. MEX. (LAT 35°32'40", LONG 106°46'56".10)

DATE	TIME	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PU- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SU4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
JAN, 29...	1700	12	20	150	390	55	3800	3.1	422	0	4700	3100

DATE	TIME	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (SUM OF TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN, 29...		1.7	.18	.05	12300	1200	850	48	16600	7.6	2.5	8000

DATE	TIME	TOTAL ARSENIC (AS) (UG/L) (01002)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
JAN, 29...	1700	5	0	8000	20	8300	150

ARROYO PENASCO AT HIGHWAY 44, SAN YSIDRO, N. MEX. (LAT 35°34'06", LONG 106°51'37".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CF8) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PU- TAS- SIUM (K) (MG/L) (00935)	DIS- SOLVED MAN- SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
JUNE 29...	1000	2.0	23	50	10	140	61	2800	110	2800	2300

DATE	TIME	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	BROMIDE (BR) (MG/L) (71870)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	HARD- NESS (CA, MG) (MG/L) (00900)	SODIUM AD- SORP- TION RATIO (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
JUNE 29...		3.7	8.0	.06	.08	600	50	12400	7.7	18.0	7400

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
JUNE 29...	1000	70	7400	50	6100	10

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

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WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

JEMEZ RIVER AT HIGHWAY 4, NEAR SAN YSIDRO, N. MEX. (LAT 35°34'27", LONG 106°45'27".10)

DATE	TIME	INSTAN- TANEDUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAH- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)
JAN, 29...	1040	23	43	30	120	62	7.7	120	11	317	0	32

DATE	TIME	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUD- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHU- PHOS- PHORUS (P) (MG/L) (00611)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN, 29...	120	1.3	.01	.08	556	190	0	3.8	952	7.8	2.0	1000	

DATE	TIME	TOTAL ARSENIC (AS) (UG/L) (01002)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
JAN, 29...	1040	50	47	1000	30	960	120

CUCHILLA ARROYO AT HIGHWAY 44, SAN YSIDRO, N. MEX. (LAT 35°35'22", LONG 106°53'16".10)

DATE	TIME	INSTAN- TANEDUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
JUNE 29...	0925	.50	15	370	330	420	94	4200	130	4600	4000

DATE	TIME	DIS- SOLVED FLUD- RIDE (F) (MG/L) (00950)	BROMIDE (BR) (MG/L) (71870)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHU- PHOS- PHORUS (P) (MG/L) (00671)	HARD- NESS (CA,MG) (MG/L) (00900)	SODIUM AD- SORP- TION RATIO (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
JUNE 29...	2.7	8.7	.01	.05	1400	48	19400	7.7	27.0	9100	

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
JUNE 29...	0925	12	9100	370	8000	330

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

SANTA FE RIVER ABOVE MCCLURE RESERVOIR, N. MEX. (LAT 35°41'18", LONG 105°49'24".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANGANESE (MN) (UG/L) (01056)	DIS- SOLVED CALCIUM (CA) (MG/L) (00915)	DIS- SOLVED MAGNESIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED POTASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)
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JUNE 28...	1645	6.8	9.8	40	0	3.4	.9	1.8	.5	14
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DATE	TIME	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLORIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUORIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHOPHOSPHATE (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF TUESS) (MG/L) (70301)	HARDNESS (CA, MG) (MG/L) (00900)	NON-CARBONATE HARDNESS (MG/L) (00902)	SODIUM ADSORPTION RATIO (00931)
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JUNE 28...	5.5	1.5	.0	.05	.00	42	31	12	1	.2
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DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH (UNITS) (00400)	TEMPERATURE (DEG C) (00010)	DIS- SOLVED OXYGEN (MG/L) (00300)	FECAL COLIFORM (COL PER 100 ML) (31616)	STREPTOCOCCI (COL PER 100 ML) (31679)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED ORGANIC CARBON (C) (MG/L) (00681)	DIS- SOLVED BORON (B) (UG/L) (01020)
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JUNE 28...	35	7.3	10.5	8.1	0	21	7.0	3.1	20
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DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CADMIUM (CD) (UG/L) (01025)	HEXA- VALENT CHROMIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)
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JUNE 28...	1645	1	0	20	0	0	0
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DATE	TIME	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED MANGANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELENIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
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JUNE 28...	40	<100	0	.0	0	0	10
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QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

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WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

JEMEZ RIVER AT JEMEZ SPRINGS, N. MEX. (LAT 35°46'05", LONG 106°41'36".10)

DATE	TIME	DIS- SOLVED SILICA (SID2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
JAN, 29,..	1545	55	50	30	51	4.7	98	17	230	0	17	120

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO, PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHQS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
JAN, 29,..	1.3	.05	.08	480	150	0	3.5	807	7.8	9.0	850

DATE	TIME	TOTAL ARSENIC (AS) (UG/L) (01002)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
JAN, 29,..	1545	120	110	850	50	1300	30

EAST FORK JEMEZ RIVER ABOVE SAN ANTONIO CREEK, N. MEX.
(LAT 35°49'41", LONG 106°38'38".10)

DATE	TIME	DIS- SOLVED URANIUM (U) (UG/L) (80020)
NOV, 12,..	1300	.23

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

SULPHUR CREEK AT LA CUEVA N. MEX.--Continued

DATE	HARD- NESS (CA, MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	TOTAL ACIDITY AS H+ (MG/L) (71825)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (01020)
MAR, 21...	170	170	.9	.6	566	4.3	1.5	130

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MANGANESE (MN) (UG/L) (01056)
MAR, 21...	1200	1	130	2600	110	1100

SAN ANTONIO CREEK ABOVE SULPHUR CREEK, N. MEX.
(LAT 35°51'18", LONG 106°38'19".10)

DATE	TIME	DIS- SOLVED NATURAL URANIUM (U) (UG/L) (22703)
NOV, 12...	1155	.4

REDONDO CREEK ABOVE SULPHUR CREEK, N. MEX.
(LAT 35°52'36", LONG 106°37'42".10)

DATE	TIME	DIS- SOLVED URANIUM (U) (UG/L) (80020)
NOV, 12...	0910	.10

SULPHUR CREEK ABOVE REDONDO CREEK, N. MEX.
(LAT 35°52'39", LONG 106°37'54".10)

DATE	TIME	DIS- SOLVED URANIUM (U) (UG/L) (80020)
NOV, 12...	0925	.67

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

SANTA CLARA CREEK, HIGHWAY 30 NEAR ESPANOLA, N. MEX.

(LAT 35°58'20", LONG 106°05'20".10)

DATE	TIME	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	BROMIDE (BR) (MG/L) (71870)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)
MAR. 07...	0820	8.8	1.2	.7	.0	2.5	10	0	10	30

RIO DEL OSO AT CHILI, N. MEX. (LAT 36°06'31", LONG 106°09'10".10)

DATE	TIME	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	BROMIDE (BR) (MG/L) (71870)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)
MAR. 07...	1030	19	2.4	.5	.0	5.0	60	2	60	40

BARRANCA DITCH NEAR ABIQUIU, N. MEX. (LAT 36°12'08", LONG 106°20'52".10)

DATE	TIME	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	BROMIDE (BR) (MG/L) (71870)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)
MAR. 07...	1145	24	2.1	.5	.0	16.0	50	12	50	30

ARROYO SECO NEAR ABIQUIU, N. MEX. (LAT 36°12'12", LONG 106°20'21".10)

DATE	TIME	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	BROMIDE (BR) (MG/L) (71870)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)
MAR. 07...	1130	33	2.5	.4	.0	10.0	80	2	80

CHACO RIVER BELOW BURNHAM BRIDGE, BURNHAM, N. MEX. (LAT 36°21'57", LONG 108°33'57".10)

DATE	TIME	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MANG) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NESIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)
OCT. 31...	0940	9.0	20	0	19	1.4	150	3.3	250	150
DATE	TIME	DIS- SOLVED CHLOR- IDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (SUM OF TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	SODIUM AD- SURP- TION RATIO (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)
OCT. 31...	6.8	.0	.04	.01	463	53	0	9.0	798	5.5

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

SHUMWAY ARROYO ABOVE DUNLAP FARM, NEAR WATERFLOW, N. MEX. (LAT 36°46'31", LONG 108°26'10".10)

DATE	TIME	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)
SEP.											
15...	0955	.3	410	650	1800	18	195	0	5900	570	.5
29...	1830	.1	130	90	270	6.0	143	0	1000	100	.8
OCT.											
20...	1735	.4	160	120	470	6.3	153	0	1500	200	.7
NOV.											
17...	1620	16	410	260	1200	14	0	0	4100	410	1.3
DEC.											
19...	1650	21	480	300	1200	18	0	0	4700	470	1.4
29...	1600	12	450	160	730	14	70	0	2800	260	1.3

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	TOTAL ACIDITY AS H+ (MG/L) (71825)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
SEP.										
15...	47	9650	3700	3500	--	13	10700	9.8	24.0	740
29...	4.7	1690	700	580	--	4.5	2390	9.5	15.0	240
OCT.										
20...	4.5	2550	890	770	--	6.8	3350	8.5	15.0	290
NOV.										
17...	17	6490	2100	2100	2.2	11	7540	3.6	9.0	740
DEC.										
19...	23	7300	2400	2400	8.5	11	9280	2.5	.0	1100
29...	11	4510	1800	1700	--	7.5	5260	6.7	.0	--

POWERPLANT ARROYO BELOW SAN JUAN POWERPLANT RESERVOIR, N. MEX. (LAT 36°47'06", LONG 108°26'26".10)

DATE	TIME	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
AUG.										
15...	1500	5.3	430	800	1800	17	275	0	7100	480
SEP.										
22...	1145	3.9	86	1200	3300	15	394	0	10000	1100
OCT.										
06...	1800	7.5	400	1500	4000	12	498	0	12000	1400
13...	--	3.4	390	940	2300	16	282	0	8300	750
NOV.										
13...	1715	6.5	420	1400	3700	7.5	514	0	12000	1300
DEC.										
22...	1530	7.5	390	1300	3600	9.5	491	0	11000	1200

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
AUG.										
15...	.1	55	11000	4400	4100	12	11600	8.2	--	610
SEP.										
22...	.8	130	16500	5200	4800	20	18200	8.4	16.0	900
OCT.										
06...	1.7	160	20300	7200	6800	21	21000	8.3	18.0	1100
13...	.9	88	13200	4800	4600	14	14000	8.3	20.0	800
NOV.										
13...	1.6	140	19700	6800	6400	20	19300	8.3	9.0	990
DEC.										
22...	.5	150	18400	6300	5900	20	18600	7.8	5.5	760

QUALITY OF SURFACE WATER DATA AT PARTIAL-RECORD STATIONS OR MISCELLANEOUS SITES

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WATER QUALITY DATA, CALENDAR YEAR JANUARY 1974 TO DECEMBER 1974

WESTWATER ARROYO AT SAN JUAN POWERPLANT, N. MEX. (LAT 36°47'37", LONG 108°25'47".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED TAS- SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PU- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)
AUG. 13...	1600	1.0	21	310	230	430	59	470	19	1	2100

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO, PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
AUG. 13...	140	1.8	.06	.05	3240	1300	1300	5.6	3990	25.0	810

LITTLE NAVAJO BELOW LITTLE OSO DIVERSION DAM, COLO. (LAT 37°41'26", LONG 106°49'04".10)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) (00061)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
APR. 23...	1105	5.0	12	20	19	5.0	8.2	.9	78	0	26	1.0
MAY 29...	1245	13	14	50	11	2.6	6.9	.5	50	0	12	.5

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO, PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHUS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
APR. 23...	.2	.01	.02	101	111	68	4	.4	175	7.5	3.5	20
MAY 29...	.1	.00	.06	72	73	38	0	.5	110	7.8	10.5	20

EXPLANATION OF GEOLOGIC UNIT (AQUIFER) CODES (LISTED FROM YOUNGEST TO OLDEST AGE): 000 EXRV-Unknown age, Extrusive rocks; 000 HLFS-Unknown age, Hell-to-Finish Formation; 110 AVMB-Cenozoic age, Quaternary, Alluvium; 110 BLSN-Cenozoic age, Quaternary, Bolson fill; 112 ANCH-Cenozoic age, Quaternary, Pleistocene, Ancha Formation, Upper part of Santa Fe Group; 112 BDLR-Cenozoic age, Quaternary, Pleistocene, Bandelier Rhyolite Tuff of Tewa Group; 112 SNTF-Cenozoic age, Quaternary, Pleistocene, Santa Fe Group; 112 SNTFU-Cenozoic age, Quaternary, Pleistocene, Santa Fe Group, Upper Part; 112 VLLS-Cenozoic age, Quaternary, Pleistocene, Valles Rhyolite of Tewa Group; 121 Gila-Cenozoic age, Tertiary, Pliocene, Gila Conglomerate (Group); 121 TSUQ-Cenozoic age, Tertiary; Pliocene, Tesuque Formation, undifferentiated unit; 124 ANMS-Cenozoic age, Tertiary, Eocene, Animas Formation; 124 SNJS-Cenozoic age, Tertiary, Eocene, San Jose Formation; 125 NCMN-Cenozoic age, Tertiary, Paleocene, Nacimiento Formation; 211 CLFH-Mesozoic age, Upper Cretaceous, Cliff House Sandstone; 211 FRLD-Mesozoic age, Upper Cretaceous, Fruitland Formation; 211 GLLP-Mesozoic age, Upper Cretaceous, Gallup Sandstone; 211 MVRD-Mesozoic age, Upper Cretaceous, Mesaverde Group; 211 PCCF-Mesozoic age, Upper Cretaceous, Pictured Cliffs Sandstone; 221 MRSN-Mesozoic age, Upper Jurassic, Morrison Formation; 221 WSRC-Mesozoic age, Upper Jurassic, Westwater Canyon Sandstone Member, Morrison Formation; 231 CHNL-Mesozoic age, Upper Triassic, Chinle Formation; 310 SGRC-Paleozoic age, Permian, Sangre de Cristo Formation; 312 CLBR-Paleozoic age, Ochoa, Culebra Dolomite Member of Rustler Formation; 312 RSLR-Paleozoic age, Ochoa, Rustler Formation; 313 CPTN-Paleozoic age, Guadalupe, Capitan Limestone; 313 SADR-Paleozoic age, Guadalupe, San Andres Limestone, Upper Clastic Member; 318 ABO L-Paleozoic age, Leonard, Abo Sandstone (Lower Tongue); 325 MDER-Paleozoic age, Des Moines, Madera Limestone; 326 MGDL-Paleozoic age, Atoka, Magdalena Group; 400 PCMB-Paleozoic age, Precambrian, Precambrian.

REMARKS.--Ground-water sites in this table are segregated by county which appear alphabetically. The sites are then listed in ascending local identifiers (see p. 12).

BERNALILLO COUNTY

LOCAL IDENTIFIER	STATION NUMBER	DATE OF SAMPLE	TIME	GEOLOGIC UNIT	DEPTH (FT)	INSTANTANEOUS FLOW RATE (GPM)	TOTAL DEPTH OF HOLE (FT)	PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN)	DEPTH TO TOP OF SAMPLE INTERVAL (FT)
					(00003)	(00059)	(72001)	(72004)	(72015)
10N,03E,32,314	350256106390801	74-02-27	1000	112SNTF	--	--	--	--	--
10N,04E,08,434	350610106321301	74-01-21	0920	112SNTF	--	2257	1485	120	645
10N,05E,15,141	350543106233601	74-09-10	1320	325MDER	--	--	--	--	--
11N,04E,33,331	350800106314501	74-02-14	1700	112SNTF	1581	1845	1581	--	801
11N,05E,23,111	351012106230401	74-09-10	1510	325MDER	--	--	--	--	--

DATE OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE INTERVAL (FT)	DEPTH BELOW LAND SURFACE (FT)	DIS-SOLVED SILICA (MG/L)	DIS-SOLVED IRON (UG/L)	DIS-SOLVED MANGANESE (UG/L)	DIS-SOLVED CALCIUM (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)	DIS-SOLVED SODIUM (MG/L)	DIS-SOLVED POTASSIUM (MG/L)	BICARBONATE (MG/L)	CAMMONIUM (MG/L)	DIS-SOLVED SULFATE (MG/L)
	(72016)	(72019)	(00955)	(01046)	(01056)	(00915)	(00925)	(00930)	(00935)	(00440)	(00445)	(00945)
74-02-27	--	--	75	30	0	23	5.4	77	8.3	169	0	79
74-01-21	1473	571	32	30	60	32	1.0	24	2.4	123	0	19
74-09-10	--	--	--	--	--	100	7.8	4.4	.8	353	--	24
74-02-14	1569	765	32	30	50	30	1.4	26	2.0	139	0	15
74-09-10	--	--	--	--	--	31	5.3	6.5	.7	--	--	--

DATE OF SAMPLE	DIS-SOLVED CHLORIDE (MG/L)	DIS-SOLVED FLUORIDE (MG/L)	BROMIDE (MG/L)	NITRATE (MG/L)	PHOSPHORUS (MG/L)	DUE AT 180 C (MG/L)	SUM OF TUNENTS (MG/L)	HARDNESS (CA, MG)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMMHS)	PH
	(00940)	(00950)	(71870)	(00631)	(00671)	(70300)	(70301)	(00900)	(00902)	(00931)	(00095)	(00400)
74-02-27	22	.8	--	.44	.06	372	376	80	0	3.8	514	8.0
74-01-21	13	.8	--	.22	.03	182	186	84	0	1.1	284	7.9
74-09-10	3.8	.2	<.1	--	--	246	--	280	0	.1	562	7.0
74-02-14	6.8	.9	--	.19	.03	180	184	81	0	1.3	275	7.9
74-09-10	16	.1	<.1	--	--	--	--	99	--	.3	228	--

DATE OF SAMPLE	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (MG/L)	DIS-SOLVED BORON (UG/L)
	(00010)	(00680)	(01020)
74-02-27	20.5	--	200
74-01-21	24.0	1.8	20
74-09-10	13.5	--	40
74-02-14	25.5	.2	30
74-09-10	13.0	--	20

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

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BERNALILLO COUNTY--Continued

LOCAL IDENT- I- FIER	STATION	NUMBER	DATE OF SAMPLE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COBALT (CO) (UG/L) (01040)
10N,03E,32,314	350256106390801		74-02-27	1000	29	0	200	1	0	2
10N,04E,08,434	350610106321301		74-01-21	0920	4	300	20	0	0	2
10N,05E,15,141	350543106233601		74-09-10	1320	0	--	40	--	--	--
11N,04E,33,331	350800106314501		74-02-14	1700	4	0	30	0	0	17
11N,05E,23,111	351012106230401		74-09-10	1510	0	--	20	--	--	--

DATE OF SAMPLE	TOTAL IRON (FE) (UG/L) (01045)	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
74-02-27	90	30	<100	2	--	0	.0	0	2	10
74-01-21	110	30	<100	0	--	60	.0	0	2	20
74-09-10	--	--	--	--	0	--	--	--	--	--
74-02-14	130	30	<100	0	--	50	.0	1	1	20
74-09-10	--	--	--	--	0	--	--	--	--	--

CATRON COUNTY

LOCAL IDENT- I- FIER	STATION	NUMBER	DATE OF SAMPLE	TIME	GEO- LOGIC UNIT	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)
128,20W,23,321	331441108525201		74-12-05	1915	000EXRV	73	200	12	135	310

DATE OF SAMPLE	BROMIDE (BR) (MG/L) (71870)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
74-12-05	.4	1200	7.3	35.0	200

LOCAL IDENT- I- FIER	STATION	NUMBER	DATE OF SAMPLE	TIME	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)
128,20W,23,321	331441108525201		74-12-05	1915	200	310

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

DONA ANA COUNTY

LOCAL IDENT- IFIER	STATION NUMBER	DATE OF SAMPLE	TIME	GEO- LOGIC UNIT	DEPTH (FT) (000003)	FLOW RATE (GPM) (000058)	INSTAN- TANEOUS FLOW RATE (GPM) (000059)	TOTAL DEPTH OF HOLE (FT. BELOW LSU) (72001)	TOTAL DEPTH OF WELL (FT) (72008)			
158,054,27,333	325820107205101	74-07-12	1200	1128NTF	--	--	300	--	340			
158,054,30,213A	324047107233101	74-07-09	1200	1128NTF	--	--	--	--	--			
188,054,10,212	324547107201701	74-12-01	--	1128NTF	--	--	--	--	--			
198,024,36,213A	323657106595301	74-01-31	1300	1128NTF	--	--	--	--	--			
198,044,12,421B	324014107115702	74-06-12	--	110AVMB	--	--	--	67	--			
198,044,12,421A	324014107115701	74-06-08	--	110AVMB	--	--	--	21	--			
198,044,12,421B	324014107115702	74-06-15	1200	110AVMB	--	--	--	67	--			
198,044,12,421C	324014107115703	74-06-12	--	1128NTF	--	--	--	125	--			
198,044,12,421D	324014107115704	74-06-12	--	110AVMB	--	--	--	46	--			
198,044,12,421E	324014107115705	74-06-12	--	1128NTF	--	--	--	30	--			
218,014,10,213	323001106450101	74-12-04	1540	000EXHV	--	--	--	--	--			
218,05E,32,222	322635106264401	74-06-12	1745	110BLSN	--	--	--	--	--			
228,01E,14,341A	322523106485201	74-05-16	--	1128NTF	--	--	--	--	--			
228,01E,14,343	322519106484301	74-01-23	--	1128NTF	324	--	--	--	--			
228,01E,22,421	322242106492301	74-04-11	1200	1128NTF	--	--	--	--	--			
DATE OF SAMPLE	DEPTH TO TOP OF SAMPLE INTER- VAL (FT) (72015)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT) (72016)	DEPTH BELOW LAND SURFACE (FT) (72019)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NESE SILUM (MG) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED POT- ASH SILUM (K) (MG/L) (00935)	BICAR- BONATE (HCL3) (MG/L) (00440)	CAR- BONATE (CU3) (MG/L) (00445)
74-07-12	--	--	--	30	--	--	22	2,6	46	4,9	153	--
74-07-09	--	--	13,45	47	10	10	75	11	32	2,4	300	--
74-12-01	--	--	--	16	--	--	7,2	1	140	9	129	--
74-01-31	--	--	--	53	40	--	65	5,3	1500	210	675	0
74-06-12	--	--	--	36	--	--	120	19	150	7,5	237	0
74-06-08	--	--	--	28	--	--	620	160	950	20	419	0
74-06-15	--	--	--	--	--	--	--	--	--	--	--	0
74-06-12	--	--	--	22	--	--	440	100	780	18	80	0
74-06-12	--	--	--	42	--	--	240	32	250	10	323	0
74-06-12	--	--	--	47	--	--	640	140	760	14	390	0
74-12-04	--	--	--	74	--	--	--	--	1100	170	444	--
74-06-12	--	--	--	38	10	0	51	12	32	3,9	147	0
74-12-18	--	--	--	39	30	0	49	11	33	3,7	148	--
74-05-16	--	--	--	29	0	0	65	12	160	14	283	0
74-01-23	--	--	--	29	0	--	74	14	180	16	297	0
74-04-11	--	--	--	23	70	20	67	9,9	52	4,8	159	0
DATE OF SAMPLE	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00920)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC GEN (N) (MG/L) (00605)	TOTAL PHOS- PHORUS (P) (MG/L) (00605)	DIS- SOLVED ORTHU- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE A1 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF TUESTR) (MG/L) (70301)	HAND- NESS (CA, MG) (MG/L) (00900)	
74-07-12	16	26	6	--	60	--	--	--	--	226	66	
74-07-09	29	15	5	--	65	--	--	65	--	360	230	
74-12-01	110	50	1,6	--	68	--	--	--	--	390	18	
74-01-31	1900	860	17	--	38	--	--	--	--	4970	180	
74-06-12	380	88	6	--	70	--	--	--	--	921	380	
74-06-08	2100	1300	6	--	4,9	--	--	--	--	5410	2200	
74-06-15	--	--	--	--	--	--	--	--	--	--	--	
74-06-12	2800	130	1,0	--	1,4	--	--	--	--	4340	1500	
74-06-12	820	130	5	--	1,1	--	--	--	--	1680	730	
74-06-12	1900	1100	7	--	91	--	--	--	--	4800	2200	
74-12-04	--	1600	--	2,8	--	--	--	--	--	--	--	
74-06-12	79	26	1,0	--	1,8	--	--	63	--	323	180	
74-12-18	80	25	9	--	2,0	--	--	61	--	324	170	
74-05-16	110	170	1,2	--	60	--	--	66	--	701	210	
74-01-23	140	210	1,1	--	25	--	--	--	--	812	240	
74-04-11	110	62	4	--	21	--	--	1,5	--	413	210	
DATE OF SAMPLE	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	TOTAL ACIDITY AS H+ (MG/L) (71825)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED BORON (B) (UG/L) (01020)				
74-07-12	0	--	2,5	371	--	23,0	--	--				
74-07-09	0	--	9	554	--	18,5	--	--				
74-12-01	0	--	14	681	--	--	--	--				
74-01-31	0	--	48	7380	7,9	--	1000	--				
74-06-12	180	--	3,4	1350	7,9	19,0	--	180				
74-06-08	1900	--	8,8	7430	7,6	19,0	--	1100				
74-06-15	--	--	--	--	7,9	--	--	--				
74-06-12	1400	--	8,7	5240	6,8	20,0	--	1400				
74-06-12	470	--	4,0	2250	7,6	20,0	--	370				
74-06-12	1900	--	7,1	6470	7,6	--	--	890				
74-12-04	--	--	--	6100	6,7	52,5	--	780				
74-06-12	56	--	1,0	512	8,0	25,5	--	50				
74-12-18	46	--	1,1	504	--	--	--	40				
74-05-16	0	--	4,8	1200	8,0	21,5	--	--				
74-01-23	0	--	5,0	1340	8,0	12,0	--	210				
74-04-11	78	--	1,6	676	8,1	20,5	--	80				

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

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DONA ANA COUNTY--Continued

LOCAL IDENT- IFIER	STATION NUMBER	DATE OF SAMPLE	TIME	GEO- LOGIC UNIT	DEPTH (FT) (000003)	FLOW RATE (GPM) (000058)	INSTAN- TANEOUS FLOW RATE (GPM) (000059)	TOTAL DEPTH OF HOLE (FT, BELOW LSD) (72001)	TOTAL DEPTH OF WELL (FT) (72008)
	322242106492302	74-04-11	1205	1125NTF	--	--	--	--	--
	322242106492303	74-04-11	1210	1125NTF	--	--	--	--	--
228,05E,05,313	321510106274101	74-06-12	1700	1108LSN	--	--	--	--	--
		74-12-17	1700	1108LSN	--	--	--	--	--
228,05E,07,342	322415106281801	74-06-12	1530	1108LSN	--	--	--	--	--
		74-12-17	1610	1108LSN	--	--	--	--	--
228,05E,15,221	321401106245201	74-06-12	1445	1108LSN	--	--	--	--	--
		74-12-17	1410	1108LSN	--	--	--	--	--
228,05E,16,111	322403106263901	74-06-12	1335	1108LSN	--	--	--	--	--
		74-12-17	1540	1108LSN	--	--	--	--	--
228,05E,20,111	322311106274101	74-06-12	1250	1108LSN	--	--	--	--	--
		74-12-17	1130	1108LSN	--	--	--	--	--
228,05E,29,412	322155106270201	74-06-12	1050	1108LSN	--	--	--	--	--
		74-12-17	1050	1108LSN	--	--	--	--	--
228,05E,33,244	322108106254701	74-06-12	1000	1108LSN	--	--	--	--	--

DATE OF SAMPLE	DEPTH TO TOP OF SAMPLE INTER- VAL (FT) (72015)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT) (72016)	DEPTH BELOW LAND SURFACE (FT) (72019)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (MG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (MG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED POT- AS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)
74-04-11	--	--	--	25	20	90	42	6.9	41	5.6	151	0
74-04-11	--	--	--	27	10	30	37	7.4	130	11	281	0
74-06-12	--	--	--	35	50	10	32	7.8	23	2.3	125	0
74-12-17	--	--	--	37	60	0	30	6.9	24	2.1	119	--
74-06-12	--	--	--	33	0	0	33	4.2	36	2.0	128	0
74-12-17	--	--	--	33	10	0	30	3.6	34	1.8	121	--
74-06-12	--	--	--	10	50	0	11	.7	490	7.2	67	18
74-12-17	--	--	--	8.1	40	0	8.7	.1	500	5.8	54	22
74-06-12	--	--	--	23	40	0	28	4.2	22	2.5	86	0
74-12-17	--	--	--	24	10	0	26	3.6	24	2.1	85	--
74-06-12	--	--	--	33	10	0	35	6.6	26	2.4	106	0
74-12-17	--	--	--	36	50	10	36	6.4	28	2.1	108	--
74-06-12	--	--	--	37	20	20	29	6.0	23	2.3	114	0
74-12-17	--	--	--	35	40	20	30	5.3	24	2.0	108	--
74-06-12	--	--	--	1.5	10	0	41	.4	120	6.0	20	0

DATE OF SAMPLE	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	BRUMIDE (BR) (MG/L) (71870)	DIS- SOLVED NITRATE PLUS NITRITE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHU- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE A1 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF TUEENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (00900)
74-04-11	52	39	.4	--	.02	--	--	--	.01	286	287	130
74-04-11	79	80	1.3	--	.03	--	--	--	.00	--	512	120
74-06-12	44	12	.3	--	.85	--	--	--	.03	--	222	110
74-12-17	42	9.8	.3	--	.93	--	--	--	.01	--	215	100
74-06-12	45	17	.4	--	1.5	--	--	--	.09	--	241	100
74-12-17	44	9.5	.4	--	1.5	--	--	--	.01	--	223	90
74-06-12	310	500	.6	--	.03	--	--	--	.01	--	1380	30
74-12-17	310	540	.6	--	.03	--	--	--	.01	--	1420	22
74-06-12	41	13	.3	--	1.0	--	--	--	.01	--	181	87
74-12-17	41	12	.3	--	1.0	--	--	--	.02	--	179	80
74-06-12	51	16	.3	--	2.2	--	--	--	.02	--	232	110
74-12-17	49	17	.3	--	2.6	--	--	--	.01	--	240	120
74-06-12	43	11	.3	--	1.0	--	--	--	.03	--	211	97
74-12-17	42	11	.3	--	.78	--	--	--	.01	--	205	97
74-06-12	120	170	.6	--	.04	--	--	--	.00	--	470	100

DATE OF SAMPLE	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	TOTAL ACIDITY AS H+ (MG/L) (71825)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHQS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED BORON (B) (MG/L) (01020)
74-04-11	9	--	1.5	474	8.0	20.0	--	70
74-04-11	0	--	5.1	850	8.3	18.5	--	220
74-06-12	10	--	.9	334	8.1	24.5	--	30
74-12-17	6	--	1.0	322	--	--	--	20
74-06-12	0	--	1.6	368	8.2	25.0	--	20
74-12-17	0	--	1.6	336	--	--	--	30
74-06-12	0	--	39	2610	9.4	25.0	--	140
74-12-17	0	--	46	2620	--	--	--	140
74-06-12	17	--	1.0	280	8.2	26.0	--	30
74-12-17	10	--	1.2	279	--	--	--	40
74-06-12	28	--	1.1	358	8.3	27.0	--	20
74-12-17	28	--	1.1	368	--	23.5	--	20
74-06-12	5	--	1.0	324	8.0	26.0	--	20
74-12-17	10	--	1.1	310	--	23.5	--	20
74-06-12	88	--	5.1	892	8.0	24.0	--	60

DONA ANA COUNTY--Continued

LOCAL IDENT- IFIER	STATION	NUMBER	DATE OF SAMPLE	TIME	GEO- LOGIC UNIT	DEPTH (FT)	FLOW RATE (GPM)	INSTAN- TANEOUS RATE (GPM)	TOTAL DEPTH OF HOLE (FT, BELOW LSU)	TOTAL DEPTH OF WELL (FT)
						(00003)	(00058)	(00059)	(72001)	(72008)
23S,01E,10,134	321921106500001		74-12-17	1000	1106LSN	--	--	--	--	--
			74-06-07	--	110AVMB	--	--	--	--	--
			74-06-07	1200	110AVMB	--	--	--	--	--
23S,01E,13,411	321828106473703		74-09-05	1203	112SNTF	--	--	3.5	--	--
	321828106473702		74-09-06	1202	112SNTF	--	--	11	--	2000
23S,01E,13,411A	321828106473704		74-09-05	1204	112SNTF	--	--	12	--	--
	321828106473701		74-09-06	1200	112SNTF	--	--	24	--	2000
			74-09-10	1201	112SNTF	--	--	3.0	--	345
23S,01E,34,423	321539106492201		74-06-06	--	110AVMB	--	--	--	--	--
	321539106492205		74-06-06	--	110AVMB	--	--	--	--	--
23S,01E,34,423B	321539106492202		74-06-06	1220	110AVMB	--	--	--	--	--
23S,01E,34,423C	321539106492203		74-06-06	--	112SNTF	--	--	--	--	--
23S,01E,34,423D	321539106492204		74-06-06	--	112SNTF	--	--	--	--	--
23S,02E,05,342	321956106453701		74-06-28	--	112SNTF	--	--	--	--	--
23S,02E,07,123	321944106463801		74-05-28	--	112SNTF	--	--	--	--	--

DATE OF SAMPLE	DEPTH TO TOP OF SAMPLE INTER- VAL (FT) (72015)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT) (72016)	DEPTH BELOW LAND SURFACE (FT) (72019)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NESIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED POT- ASSIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)
74-12-17	--	--	--	1.0	10	10	42	1.0	120	5.1	17	--
74-06-07	--	--	--	21	--	--	57	11	110	8.0	189	0
74-06-07	--	--	--	21	--	--	80	17	100	9.7	208	0
74-09-05	1448	E1468	47.00	14	--	--	17	2.9	280	5.9	172	--
74-09-06	E961	981	41.00	24	10	40	20	6.2	150	9.1	179	--
74-09-05	1260	E1260	44.00	14	10	50	15	3.2	200	5.7	163	--
74-09-06	E604	624	29.00	26	300	35	29	8.0	120	11	197	--
74-09-10	E340	345	25.00	27	--	--	120	21	92	7.1	207	--
74-06-06	--	--	--	24	--	--	99	18	110	10	212	0
74-06-06	--	--	--	26	--	--	100	20	110	13	207	0
74-06-06	--	--	--	29	--	--	88	19	130	7.4	282	8
74-06-06	--	--	--	24	--	--	68	12	120	6.2	238	0
74-06-06	--	--	--	29	--	--	130	18	140	7.4	274	0
74-06-28	--	--	--	29	60	0	31	10	72	8.0	198	0
74-05-28	--	--	--	29	10	30	40	11	49	6.8	159	0

DATE OF SAMPLE	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	BROMIDE (BR) (MG/L) (71870)	DIS- SOLVED NITR- PLUS (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE A1 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (00900)
74-12-17	120	170	.6	--	.01	--	--	--	.01	--	468	110
74-06-07	180	61	.7	--	.11	--	--	--	--	--	543	190
74-06-07	200	90	.6	--	.25	--	--	--	--	--	622	270
74-09-05	270	160	1.5	--	.11	--	--	--	.00	835	837	54
74-09-06	130	61	1.0	--	.03	--	--	--	.03	--	510	75
74-09-05	170	150	1.2	--	.01	--	--	--	.01	--	640	51
74-09-06	83	78	1.3	--	1.4	--	--	--	.01	705	461	110
74-09-10	170	140	.3	--	3.4	.16	.09	8.9	1.7	1040	700	390
74-06-06	210	120	.6	--	2.4	--	--	--	--	--	707	320
74-06-06	240	120	.6	--	2.9	--	--	--	--	--	745	330
74-06-06	180	110	.6	--	.31	--	--	--	--	--	713	300
74-06-06	180	79	.7	--	.21	--	--	--	--	--	608	220
74-06-06	240	150	.3	--	.31	--	--	--	--	--	851	400
74-06-28	64	44	.7	--	.03	--	--	--	.03	--	357	120
74-05-28	58	49	.6	--	.03	--	--	--	.09	--	322	150

DATE OF SAMPLE	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	TOTAL ACIDITY AS H+ (MG/L) (71825)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICHO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED BORON (B) (UG/L) (01020)
74-12-17	95	--	5.0	862	--	22.0	--	60
74-06-07	33	--	3.5	871	8.3	19.0	--	150
74-06-07	99	--	2.7	1000	8.3	18.5	--	140
74-09-05	0	--	17	1400	--	22.5	--	--
74-09-06	0	--	7.5	858	--	21.0	--	--
74-09-05	0	--	12	1150	--	22.0	--	--
74-09-06	0	--	5.1	720	7.9	20.0	--	75
74-09-10	220	15	2.0	1160	8.0	20.5	--	--
74-06-06	150	--	2.7	1140	7.9	19.0	--	170
74-06-06	160	--	2.6	1180	7.6	19.0	--	160
74-06-06	53	--	3.3	1170	8.6	19.5	--	260
74-06-06	24	--	3.5	990	8.2	18.5	--	250
74-06-06	170	--	3.1	1360	8.2	19.0	--	200
74-06-28	0	--	2.9	589	8.1	--	--	--
74-05-28	15	--	1.8	532	8.0	19.0	--	--

DONA ANA COUNTY--Continued

DONA ANA COUNTY--Continued											TOTAL DEPTH OF HOLE (FT, BELOW LSD)	TOTAL DEPTH OF WELL (FT)
LOCAL IDENTIFY- FIER	STATION	NUMBER	DATE OF SAMPLE	TIME	GEO- LOGIC UNIT	DEPTH (FT) (00003)	FLOW RATE (GPM) (00058)	INSTAN- TANEOUS FLOW RATE (GPM) (00059)				
238,02E,08,433	322345106453001		74-06-28	--	1128NTF	--	--	--	--	--	--	--
238,02E,09,331	324403106445801		74-06-28	--	1128NTF	--	--	--	--	--	--	--
238,02E,16,413	321822106443101		74-06-28	--	1128NTF	--	--	--	--	--	--	--
238,02E,17,243	322348106451501		74-06-28	--	1128NTF	--	--	--	--	--	--	--
238,02E,18,313	321818106470401		74-07-25	1201	110AVMB	--	--	--	--	--	--	--
238,02E,18,313A	321818106470402		74-02-07	1010	1128NTF	48	--	--	--	48	--	--
			74-07-25	1202	110AVMB	--	--	--	--	--	--	48
238,02E,18,313B	321818106470403		74-02-07	1000	1128NTF	35	--	--	--	--	--	--
			74-02-07	1030	1128NTF	78	--	--	--	78	--	--
			74-07-25	1203	1128NTF	--	--	--	--	--	--	80
238,02E,18,313C	321818106470404		74-02-07	1100	1128NTF	160	--	--	--	160	--	--
			74-07-25	1204	1128NTF	--	--	--	--	--	--	170
248,01W,22,123	321311106560101		74-06-25	--	1128NTF	--	--	--	--	--	--	--
248,02E,15,2312	321324106432401		74-04-04	1215	1128NTF	--	--	--	--	--	--	--
	321324106432402		74-04-04	1220	1128NTF	--	--	--	--	--	--	--
DATE OF SAMPLE	DEPTH TO TOP OF SAMPLE INTER- VAL (FT) (72015)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT) (72016)	DEPTH BELOW LAND SURFACE (FT) (72019)	DIS- SOLVED SILICA (SiO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (MG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (MG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCU3) (00440)	CAR- BONATE (CU3) (00445)
74-06-28	--	--	--	29	10	10	35	10	48	6.6	156	0
74-06-28	--	--	--	31	10	0	70	19	73	8.3	182	0
74-06-28	--	--	--	35	10	10	90	23	70	7.6	206	0
74-06-28	--	--	--	29	0	0	32	9.1	59	8.0	157	0
74-07-25	32	35	--	25	--	--	200	24	130	10	326	--
74-02-07	--	--	--	--	--	--	210	25	--	--	337	0
74-07-25	45	48	--	32	--	--	180	23	160	9.6	365	--
74-02-07	--	--	--	--	--	--	200	24	--	--	350	0
74-02-07	--	--	--	--	--	--	91	17	--	--	235	0
74-07-25	75	78	--	34	--	--	120	19	150	8.1	329	--
74-02-07	--	--	--	--	--	--	94	17	--	--	216	0
74-07-25	157	160	--	26	--	--	99	18	62	5.2	222	--
74-06-25	--	--	--	31	10	70	49	11	250	33	320	0
74-04-04	--	--	--	34	10	10	39	9.4	52	12	161	0
74-04-04	--	--	--	44	10	190	58	11	45	18	147	0
DATE OF SAMPLE	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLOR- IDE (CL) (MG/L) (00940)	DIS- SOLVED FLUOR- IDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE PLUS NITRATE (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (00900)	
74-06-28	53	45	.8	--	.06	--	--	.03	--	--	305	150
74-06-28	140	93	.6	--	.85	--	--	.02	--	--	528	250
74-06-28	130	130	.5	--	.25	--	--	.03	--	--	589	320
74-06-28	55	52	.8	--	.05	--	--	.02	--	--	323	120
74-07-25	460	89	.5	--	.48	--	--	--	--	--	1100	600
74-02-07	540	97	--	--	--	--	--	--	--	--	--	630
74-07-25	430	97	.6	--	.03	--	--	--	--	--	1110	540
74-02-07	530	100	--	--	--	--	--	--	--	--	--	600
74-02-07	300	97	--	--	--	--	--	--	--	--	--	300
74-07-25	290	88	.3	--	.20	--	--	--	--	--	872	380
74-02-07	150	79	--	--	--	--	--	--	--	--	--	300
74-07-25	160	78	.4	--	.17	--	--	--	--	--	559	320
74-06-25	160	230	2.4	--	1.8	--	--	.03	--	--	932	170
74-04-04	63	46	.7	--	.18	--	--	.00	--	--	336	140
74-04-04	71	80	1.1	--	.01	--	--	.01	--	--	401	190
DATE OF SAMPLE	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	TOTAL ACIDITY AS H+ (MG/L) (71825)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHUS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00090)	DIS- SOLVED BORON (B) (MG/L) (01020)				
74-06-28	1	--	1.8	512	8.1	25.0	--	--				
74-06-28	100	--	2.0	860	7.8	23.0	--	--				
74-06-28	150	--	1.7	989	7.8	--	--	100				
74-06-28	0	--	2.4	537	8.1	25.0	--	--				
74-07-25	330	--	2.3	1690	--	22.0	--	--				
74-02-07	350	--	--	1790	7.6	17.5	--	--				
74-07-25	240	--	3.0	1650	--	23.0	--	--				
74-02-07	310	--	--	1720	7.7	17.0	--	--				
74-02-07	100	--	--	1250	7.6	19.5	--	--				
74-07-25	110	--	3.4	1320	--	22.0	--	--				
74-02-07	130	--	--	880	7.6	18.5	--	--				
74-07-25	140	--	1.5	909	--	21.5	--	--				
74-06-25	0	--	6.4	1620	7.9	--	--	--				
74-04-04	4	--	1.9	543	8.3	19.0	--	80				
74-04-04	70	--	1.4	664	7.9	20.0	--	70				

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

DONA ANA COUNTY--Continued

DONA ANA COUNTY--Continued										TOTAL DEPTH OF HOLE (FT. BELOW L80)	TOTAL DEPTH OF WELL (FT)	
LOCAL IDENTIFIER	STATION NUMBER	DATE OF SAMPLE	TIME	GEO-LOGIC UNIT	DEPTH (FT) (00003)	FLOW RATE (GPM) (00058)	INSTANTANEOUS FLOW RATE (GPM) (00059)					
258,02E,03,224	321524106432403	74-04-04	1225	112SNTF	--	--	--	--	--	--	--	
	321003106430201	74-11-06	1204	112SNTF	--	25	--	--	--	--	--	
		74-11-07	1201	112SNTF	--	8.0	--	--	--	--	--	
		74-11-07	1203	112SNTF	--	20	--	--	--	--	--	
		74-11-07	1207	112SNTF	--	20	--	--	--	--	--	
258,02E,04,114	320959106444701	74-08-05	1201	112SNTF	--	--	20	--	--	700	--	
	320959106444702	74-08-05	1202	112SNTF	--	36	--	--	--	--	--	
	320959106444703	74-08-05	1203	112SNTF	--	--	30	--	--	--	--	
	320633106424701	74-04-20	1230	112SNTF	--	--	--	--	--	--	--	
	320633106424702	74-04-20	1235	112SNTF	--	--	--	--	--	--	--	
258,02W,15,214	320633106424703	74-04-20	1240	112SNTF	--	--	--	--	--	--	--	
	320304107014501	74-06-25	--	112SNTF	--	--	--	--	--	--	--	
	320706106392501	74-03-13	--	110AVMB	--	--	--	--	--	--	--	
	320511106405901	74-06-26	--	110AVMB	--	--	--	--	--	--	--	
	320336106411101	74-02-07	1500	112SNTF	18	--	--	18	--	--	--	
DATE OF SAMPLE	DEPTH TO TOP OF INTER-VAL (FT) (72015)	DEPTH TO BOT-TOM OF INTER-VAL (FT) (72016)	DEPTH BELOW LAND SURFACE (FT) (72019)	DIS-SOLVED SILICA (MG/L) (00955)	DIS-SOLVED IRON (UG/L) (01046)	DIS-SOLVED MANGANESE (MG/L) (01056)	DIS-SOLVED CALCIUM (MG/L) (00915)	DIS-SOLVED MAGNESIUM (MG/L) (00925)	DIS-SOLVED SODIUM (MG/L) (00930)	BICARBONATE (MG/L) (00440)	CARBONATE (MG/L) (00445)	
74-04-04	--	--	--	23	10	0	8.6	4.2	57	6.6	54	
74-11-06	--	--	--	30	10	0	18	1	180	2.2	83	
74-11-07	--	--	--	26	360	40	42	9.3	63	2.9	152	
74-11-07	--	--	--	17	120	240	45	3.8	94	4.1	120	
74-11-07	--	--	--	28	510	10	36	8.8	59	3.2	153	
74-08-05	242	262	--	27	10	0	52	8.7	57	4.4	162	
74-08-05	6505	525	--	26	0	0	43	7.2	44	3.0	151	
74-08-05	6660	680	--	26	0	0	37	5.6	46	3.8	121	
74-04-20	--	--	--	26	10	0	79	17	57	5.1	136	
74-04-20	--	--	--	27	10	0	22	5.6	52	3.2	109	
74-04-20	--	--	--	28	0	0	18	3.6	64	2.9	161	
74-06-25	--	--	--	27	10	0	70	10	47	5.4	220	
74-03-13	--	--	--	26	20	--	78	16	150	18	265	
74-06-26	--	--	--	35	20	--	320	74	330	19	356	
74-02-07	--	--	--	--	--	--	140	24	--	--	392	
DATE OF SAMPLE	DIS-SOLVED SULFATE (MG/L) (00945)	DIS-SOLVED CHLORIDE (MG/L) (00940)	DIS-SOLVED FLUORIDE (MG/L) (00930)	BROMIDE (MG/L) (71870)	DIS-SOLVED NITRATE (MG/L) (00631)	AMMONIA NITROGEN (MG/L) (00610)	TOTAL ORGANIC NITROGEN (MG/L) (00605)	TOTAL PHOSPHORUS (MG/L) (00665)	DIS-SOLVED ORTHOPHOSPHORUS (MG/L) (00671)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L) (70301)	HARDNESS (CA+MG) (MG/L) (00900)
74-04-04	60	39	.9	--	.10	--	--	--	.00	--	234	34
74-11-06	200	100	3.5	--	.64	--	--	--	.00	569	580	45
74-11-07	63	55	.4	--	.34	--	--	--	.01	464	339	140
74-11-07	100	74	.3	--	.50	--	--	--	.00	396	400	130
74-11-07	55	47	.4	--	.11	--	--	--	.00	322	314	130
74-08-05	69	53	.4	--	.31	--	--	--	--	--	353	170
74-08-05	48	37	.3	--	.12	--	--	--	--	--	284	140
74-08-05	59	41	.4	--	.13	--	--	--	--	--	281	120
74-04-20	170	68	.6	--	.13	--	--	--	.01	--	500	270
74-04-20	53	37	.8	--	.07	--	--	--	.01	--	255	78
74-04-20	58	42	.9	--	.09	--	--	--	.01	320	317	60
74-06-25	110	22	.5	--	.08	--	--	--	.17	--	401	220
74-03-13	210	120	1.0	--	.28	--	--	--	--	--	751	260
74-06-26	420	820	.5	--	.15	--	--	--	--	--	2200	1100
74-02-07	410	120	--	--	--	--	--	--	--	--	--	450
DATE OF SAMPLE	NON-CARBONATE HARDNESS (MG/L) (00902)	TOTAL ACIDITY AS H+ (MG/L) (71825)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICRO-MHOS) (00095)	PH	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DIS-SOLVED BORON (B) (MG/L) (01020)				
74-04-04	0	--	4.0	393	9.1	16.5	--	90				
74-11-06	0	--	12	956	--	26.0	--	230				
74-11-07	19	--	2.3	574	--	18.0	--	90				
74-11-07	30	--	3.6	644	--	20.0	--	120				
74-11-07	1	--	2.3	527	--	18.0	--	90				
74-08-05	33	--	1.9	593	--	21.5	--	280				
74-08-05	13	--	1.6	475	--	23.0	--	330				
74-08-05	16	--	1.9	473	--	23.0	--	220				
74-04-20	140	--	1.5	805	8.1	19.5	--	60				
74-04-20	0	--	2.6	418	8.4	19.5	--	70				
74-04-20	0	--	4.7	525	8.2	19.5	--	90				
74-06-25	36	--	1.4	625	8.3	24.0	--	--				
74-03-13	43	--	4.0	1220	7.5	2.0	--	200				
74-06-26	810	--	4.3	3150	7.6	18.5	--	320				
74-02-07	130	--	--	1620	7.7	16.0	--	--				

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

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DONA ANA COUNTY--Continued

DONA ANA COUNTY--Continued										TOTAL DEPTH OF HOLE (FT. BELOW L&D)	TOTAL DEPTH OF WELL (FT)	
LOCAL IDENTIFIER	STATION NUMBER	DATE OF SAMPLE	TIME	GEO-LOGIC UNIT	DEPTH (FT) (00003)	FLOW RATE (GPM) (00058)	INSTANTANEOUS FLOW RATE (GPM) (00059)					
26S,02E,12,421A	320336106411102	74-07-26 74-02-07	1201 1530	110AVMB 112SNTF	-- 24	-- --	-- --	-- 24	-- --	18 --	--	
26S,02E,12,421H	320336106411103	74-07-26 74-02-07 74-07-26	1202 1600 1203	110AVMB 112SNTF 110AVMB	-- 48 --	-- -- --	-- -- --	-- 48 --	-- -- --	24 -- 35	--	
26S,02E,12,421C	320336106411104	74-02-07 74-07-26	1630 1204	112SNTF 112SNTF	-- --	-- --	-- --	-- 56	-- --	-- --	--	
26S,02E,12,421D	320336106411105	74-02-07 74-07-26	1700 1205	112SNTF 112SNTF	155 --	-- --	-- --	155 --	-- --	-- --	--	
26S,02E,15,443	320737107013601	74-06-25	--	112SNTF	--	--	--	--	--	--	--	
26S,03E,03,344	320405106373101	74-02-07	1230	112SNTF	26	--	--	26	--	--	--	
26S,03E,03,344A	320405106373102	74-02-07	1300	112SNTF	36	--	--	36	--	--	--	
26S,03E,03,344H	320405106373103	74-02-07	1350	112SNTF	48	--	--	48	--	36	--	
DATE OF SAMPLE	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	DEPTH TO BOTTOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH BELOW LAND SURFACE (FT) (72019)	DIS-SOLVED SILICA (SI02) (MG/L) (00955)	DIS-SOLVED IRON (FE) (UG/L) (01046)	DIS-SOLVED MANGANESE (MN) (UG/L) (01056)	DIS-SOLVED CALCIUM (CA) (MG/L) (00915)	DIS-SOLVED MAGNESIUM (MG) (00925)	DIS-SOLVED SODIUM (NA) (MG/L) (00930)	DIS-SOLVED TASSIUM (K) (MG/L) (00935)	BICARBONATE (HCO3) (MG/L) (00440)	CARBONATE (CO3) (MG/L) (00445)
74-07-26	6.0	18	--	29	--	--	120	21	160	7.7	204	--
74-02-07	--	--	--	--	--	--	100	20	--	--	221	0
74-07-26	21	24	--	31	--	--	100	20	70	6.3	204	--
74-02-07	--	--	--	--	--	--	82	15	--	--	194	0
74-07-26	32	35	--	34	--	--	110	18	110	6.4	236	--
74-02-07	--	--	--	--	--	--	68	13	--	--	193	0
74-07-26	73	76	--	30	--	--	71	14	100	5.6	192	--
74-02-07	--	--	--	--	--	--	67	13	--	--	171	0
74-07-26	148	151	--	28	--	--	70	14	78	5.0	165	--
74-06-25	--	--	--	71	40	0	13	2.6	73	11	205	0
74-02-07	--	--	--	--	--	--	120	43	--	--	730	0
74-07-26	16	26	--	31	--	--	110	38	1200	79	772	--
74-02-07	--	--	--	--	--	--	160	61	--	--	605	0
74-07-26	26	36	--	50	--	--	210	80	810	65	587	--
74-02-07	--	--	--	--	--	--	110	35	--	--	563	0
DATE OF SAMPLE	DIS-SOLVED SULFATE (SO4) (MG/L) (00945)	DIS-SOLVED CHLORIDE (CL) (MG/L) (00940)	DIS-SOLVED FLUORIDE (F) (MG/L) (00920)	BROMIDE (BR) (MG/L) (71870)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITROGEN (N) (MG/L) (00610)	TOTAL ORGANIC NITROGEN (N) (MG/L) (00605)	TOTAL PHOSPHORUS (P) (MG/L) (00665)	DIS-SOLVED ORTHOPHOSPHORUS (P) (MG/L) (00671)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) (70300)	DIS-SOLVED SOLIDS (SUM OF TENTS) (MG/L) (70301)	HARDNESS (CA, MG) (00900)
74-07-26	340	100	1.0	--	.01	--	--	--	--	--	426	340
74-02-07	270	87	--	--	--	--	--	--	--	--	--	330
74-07-26	210	72	.6	--	.28	--	--	--	--	--	612	330
74-02-07	220	76	--	--	--	--	--	--	--	--	--	270
74-07-26	260	82	.5	--	.10	--	--	--	--	--	734	350
74-02-07	200	72	--	--	--	--	--	--	--	--	--	220
74-07-26	190	72	.4	--	.18	--	--	--	--	--	578	240
74-02-07	190	62	--	--	--	--	--	--	--	--	--	220
74-07-26	170	59	.4	--	.08	--	--	--	--	--	516	250
74-06-25	21	11	1.6	--	3.4	--	--	.06	--	--	321	43
74-02-07	970	970	--	--	--	--	--	--	--	--	--	480
74-07-26	1000	960	1.5	--	4.6	--	--	--	--	--	3620	430
74-02-07	940	910	--	--	--	--	--	--	--	--	--	650
74-07-26	920	840	.8	--	2.8	--	--	--	--	--	3280	850
74-02-07	750	860	--	--	--	--	--	--	--	--	--	420
DATE OF SAMPLE	NON-CARBONATE HARDNESS (MG/L) (00902)	TOTAL ACIDITY AS H+ (MG/L) (71825)	SODIUM ADSORPTION RATIO (00931)	SPECIFIC CONDUCTANCE (MICROMHOS) (00095)	PH	TEMPERATURE (DEG C) (00010)	TURBIDITY (JTU) (00070)	DIS-SOLVED BORON (B) (UG/L) (01020)				
74-07-26	140	--	3.5	1410	--	20.0	--	--				
74-02-07	150	--	--	1110	7.8	17.0	--	--				
74-07-26	160	--	1.7	990	--	20.0	--	--				
74-02-07	100	--	--	979	7.7	17.5	--	--				
74-07-26	150	--	2.6	1130	--	20.0	--	--				
74-02-07	65	--	--	944	7.6	18.0	--	--				
74-07-26	77	--	2.8	935	--	20.5	--	--				
74-02-07	81	--	--	838	7.7	17.5	--	--				
74-07-26	81	--	2.2	838	--	21.0	--	--				
74-06-25	0	--	4.8	435	8.1	26.0	--	--				
74-02-07	0	--	--	5790	8.0	16.0	--	--				
74-07-26	0	--	25	6040	--	22.0	--	--				
74-02-07	150	--	--	5270	7.8	17.0	--	--				
74-07-26	370	--	12	5310	--	20.0	--	--				
74-02-07	0	--	--	4940	7.6	17.5	--	--				

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

DONA ANA COUNTY--Continued

LOCAL IDENT- 1- FILE	STATION NUMBER	DATE OF SAMPLE	TIME	GEU- LOGIC UNIT	DEPTH (FT) (00003)	FLOW RATE (GPM) (00058)	INSTAN- TANEOUS FLOW RATE (GPM) (00059)	TOTAL DEPTH OF HOLE (FT) BELOW LSD) (72001)	TOTAL DEPTH OF WELL (FT) (72008)
26S,03E,03,344C	320405106373104	74-07-26	1203	110AVMB	--	--	--	--	--
		74-02-07	1400	112SNTF	75	--	--	75	--
26S,03E,03,344D	320405106373105	74-07-26	1204	112SNTF	--	--	--	--	--
		74-02-07	1430	112SNTF	150	--	--	150	--
		74-07-26	1205	112SNTF	--	--	--	--	--
26S,03E,14,430	320200106360001	74-05-04	--	112SNTF	--	--	--	--	--
27S,02E,25,111	315611107002601	74-06-25	--	112SNTF	--	--	--	--	--
29S,03E,12,341	314746106353601	74-12-03	--	112SNTF	--	--	--	--	--
29S,03E,12,422	314759106345701	74-12-04	--	112SNTF	--	--	--	--	--
29S,04E,16,233	314710106342201	74-12-03	--	112SNTF	--	--	--	--	--

DATE OF SAMPLE	DEPTH TO TOP OF SAMPLE INTER- VAL (FT) (72015)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT) (72016)	DEPTH BELOW LAND SURFACE (FT) (72019)	DIS- SOLVED SILICA (MG/L) (00955)	DIS- SOLVED IRON (UG/L) (01046)	DIS- SOLVED MAN- GANESE (UG/L) (01056)	DIS- SOLVED CAL- CIUM (MG/L) (00915)	DIS- SOLVED MAG- NESIUM (MG/L) (00925)	DIS- SOLVED SODIUM (MG/L) (00930)	DIS- SOLVED POT- ASSIUM (MG/L) (00935)	BICAR- BONATE (MG/L) (00440)	CAR- BONATE (MG/L) (00445)
74-07-26	45	48	--	52	--	--	120	40	870	49	578	--
74-02-07	45	48	--	--	--	--	160	42	--	--	641	0
74-07-26	72	75	--	40	--	--	150	44	330	39	526	--
74-02-07	--	--	--	--	--	--	160	42	--	--	640	0
74-07-26	--	150	--	49	--	--	160	43	300	44	585	--
74-05-09	--	--	--	52	10	--	140	45	230	44	408	0
74-06-25	--	--	--	90	10	30	140	22	320	42	945	0
74-12-03	--	--	--	29	--	--	38	3,3	100	5,0	90	--
74-12-04	--	--	--	--	--	--	250	11	--	--	37	--
74-12-03	--	--	--	26	--	--	130	24	220	23	103	--

DATE OF SAMPLE	DIS- SOLVED SULFATE (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (MG/L) (00950)	DIS- SOLVED BROMIDE (MG/L) (71870)	DIS- SOLVED NITRITE PLUS NITRATE (MG/L) (00631)	AMMONIA NITRO- GEN (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (MG/L) (00605)	TOTAL PHOS- PHORUS (MG/L) (00665)	DIS- SOLVED ORTHO- PHOS- PHORUS (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (00900)
74-07-26	710	780	.7	--	4,9	--	--	--	--	--	2930	460
74-02-07	210	430	--	--	--	--	--	--	--	--	--	570
74-07-26	220	420	.2	--	.08	--	--	--	--	--	1500	560
74-02-07	200	410	--	--	--	--	--	--	--	--	--	570
74-07-26	190	400	.3	--	.01	--	--	--	--	--	1470	580
74-05-09	200	360	.3	--	.44	--	--	--	--	--	1270	540
74-06-25	180	140	1,6	--	2,8	--	--	--	.10	--	1410	440
74-12-03	190	39	.7	--	2,2	--	--	--	.04	476	459	110
74-12-04	990	520	--	--	--	--	--	--	--	--	--	670
74-12-03	460	220	.9	--	12	--	--	--	.04	1220	1210	420

DATE OF SAMPLE	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	TOTAL ACIDITY AS H+ (MG/L) (71825)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MMOS) (00095)	PH	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	DIS- SOLVED BORON (UG/L) (01020)
74-07-26	0	--	18	4810	--	20,0	--	--
74-02-07	47	--	--	2480	7,5	17,5	--	--
74-07-26	120	--	6,1	2500	--	20,5	--	--
74-02-07	48	--	--	2440	7,4	17,5	--	--
74-07-26	97	--	5,4	2450	--	20,5	--	--
74-05-09	200	--	4,3	2180	7,6	23,5	--	300
74-06-25	0	--	6,6	2100	7,0	28,0	--	--
74-12-03	35	--	4,2	731	--	13,5	1	--
74-12-04	640	--	--	3630	--	13,5	--	--
74-12-03	340	--	4,7	1840	--	25,5	3	--

DONA ANA COUNTY--Continued

LOCAL IDENT- 1- FIER	STATION	NUMBER	DATE OF SAMPLE	TIME	DIS- SOLVED ALUM- INUM (AL) (UG/L) (01106)	DIS- SOLVED ARSENIC (AS) (UG/L) (01009)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BERYL- LIUM (BE) (UG/L) (01010)	DIS- SOLVED BISMUTH (BI) (UG/L) (01015)	DIS- SOLVED BORON (B) (UG/L) (01020)
218,01W,10,213	323001106450101	74-12-04	1540	--	--	--	--	--	--	780
228,01E,22,421	322242106492302	74-04-11	1205	--	1	0	--	--	--	70
	322242106492303	74-04-11	1210	--	--	--	--	--	--	220
238,01E,13,411	321828106473703	74-09-05	1203	--	4	--	--	--	--	--
	321828106473702	74-09-06	1202	--	--	--	--	--	--	--
238,01E,13,411A	321828106473704	74-09-05	1204	--	--	--	--	--	--	--
	321828106473701	74-09-06	1200	260	2	40	0	<4	--	75
		74-09-10	1201	--	3	--	--	--	--	--
238,02E,16,413	321822106443101	74-06-28	--	--	3	--	--	--	--	100
248,02E,15,2312	321324106432401	74-04-04	1215	--	--	--	--	--	--	8
	321324106432402	74-04-04	1220	--	--	--	--	--	--	70
	321324106432403	74-04-04	1225	--	--	--	--	--	--	90
258,02E,03,224	321003106430201	74-11-06	1204	--	7	<100	--	--	--	230
		74-11-07	1201	--	5	<100	--	--	--	90
		74-11-07	1203	--	0	<100	--	--	--	120

DATE OF SAMPLE	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COBALT (CO) (UG/L) (01035)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED GALLIUM (GA) (UG/L) (01120)	DIS- SOLVED GER- MANIUM (GE) (UG/L) (01125)	TOTAL IRON (FE) (UG/L) (01045)	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)
74-12-04	--	--	--	--	--	--	--	--	--	--	--	1100
74-04-11	0	--	0	--	1	--	--	20	<100	--	--	--
74-04-11	--	--	--	--	--	--	14000	10	--	--	--	--
74-09-05	--	--	--	--	--	--	--	--	100	--	--	--
74-09-06	--	--	--	--	--	--	3300	10	--	--	--	--
74-09-05	--	--	--	--	--	--	17000	10	--	--	--	--
74-09-06	<10	<3	--	<2	3	<2	<4	300	--	10	130	--
74-09-10	--	--	--	--	--	--	--	--	<100	--	--	--
74-06-28	--	--	--	--	2	--	--	10	--	0	--	--
74-04-04	--	--	--	--	--	--	340	10	--	--	--	--
74-04-04	--	--	--	--	--	--	2400	10	--	--	--	--
74-04-04	--	--	--	--	--	--	3900	10	--	--	--	--
74-11-06	--	--	0	--	--	--	--	10	<100	--	--	--
74-11-07	11	--	0	--	5	--	--	360	<100	11	--	--
74-11-07	14	--	0	--	2	--	--	120	<100	5	--	--

DATE OF SAMPLE	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (MG) (UG/L) (71900)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L) (01060)	D
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QUALITY OF GROUND WATER DATA FOR NEW MEXICO

DONA ANA COUNTY--Continued

LOCAL IDENT- I- FIER	STATION	NUMBER	DATE OF SAMPLE	TIME	DIS- SOLVED ALUM- INUM (AL) (UG/L) (01106)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BERYL- LIUM (BE) (UG/L) (01010)	DIS- SOLVED BISMUTH (BI) (UG/L) (01015)	DIS- SOLVED BORON (B) (UG/L) (01020)
			74-11-07	1207	--	2	<100	--	--	90
258,02E,04,114	320959106444701		74-08-05	1201	--	--	--	--	--	280
258,02E,04,114A	320959106444702		74-08-05	1202	--	--	--	--	--	330
258,02E,04,114B	320959106444703		74-08-05	1203	--	--	--	--	--	220
258,02E,26,114	320633106424701		74-04-20	1230	--	--	--	--	--	80
	320633106424702		74-04-20	1235	--	--	--	--	--	70
	320633106424703		74-04-20	1240	--	5	0	--	--	90
258,03E,31,313A	320511106405901		74-06-26	--	--	--	--	--	--	320

DATE OF SAMPLE	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COBALT (CO) (UG/L) (01035)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED GALLIUM (GA) (UG/L) (01120)	DIS- SOLVED GER- MANIUM (GE) (UG/L) (01125)	TOTAL IRON (FE) (UG/L) (01045)	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)
74-11-07	--	--	0	--	--	--	--	--	510	<100	--	--
74-08-05	--	--	--	--	--	--	--	--	10	--	--	40
74-08-05	--	--	--	--	--	--	--	--	0	--	--	30
74-08-05	--	--	--	--	--	--	--	--	0	--	--	40
74-04-20	--	--	--	--	--	--	--	3200	10	--	--	--
74-04-20	--	--	--	--	--	--	--	960	10	--	--	--
74-04-20	0	--	--	--	1	--	--	--	0	100	--	--
74-06-26	--	--	--	--	--	--	--	1300	20	--	--	--

DATE OF SAMPLE	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (71900)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L) (01060)	DIS- SOLVED NICKEL (NI) (UG/L) (01065)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED STRON- TIUM (SR) (UG/L) (01080)	DIS- SOLVED TIN (SN) (UG/L) (01100)	DIS- SOLVED TI- TANIUM (TI) (UG/L) (01150)	DIS- SOLVED VANA- DIUM (V) (UG/L) (01085)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)	DIS- SOLVED ZIR- CONIUM (ZR) (UG/L) (01180)
74-11-07	10	.1	--	--	--	0	--	--	--	--	10	--
74-08-05	0	--	--	--	--	--	--	--	--	--	20	--
74-08-05	0	--	--	--	--	--	--	--	--	--	20	--
74-08-05	0	--	--	--	--	--	--	--	--	--	30	--
74-04-20	0	--	--	--	--	--	--	--	--	--	--	--
74-04-20	0	--	--	--	--	--	--	--	--	--	--	--
74-04-20	0	--	--	--	--	1	--	--	--	--	30	--
74-06-26	--	--	--	--	--	--	--	--	--	--	--	--

DATE OF SAMPLE	DIS- SOLVED GROSS ALPHA AS U-NAT, (UG/L) (80030)	SUS- PENDEO GROSS ALPHA AS U-NAT, (UG/L) (80040)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L) (03515)	SUS- PENDEO GROSS BETA AS CS-137 (PC/L) (03516)	DIS- SOLVED GROSS BETA AS AS SR90 /Y90 (PC/L) (80050)	SUS- PENDEO GROSS BETA AS AS SR90 /Y90 (PC/L) (80060)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DIS- SOLVED NATURAL URANIUM (U) (22703)
74-11-07	--	--	--	--	--	--	--	--
74-08-05	--	--	--	--	--	--	--	--
74-08-05	--	--	--	--	--	--	--	--
74-08-05	--	--	--	--	--	--	--	--
74-04-20	--	--	--	--	--	--	--	--
74-04-20	--	--	--	--	--	--	--	--
74-04-20	--	--	--	--	--	--	--	--
74-06-26	--	--	--	--	--	--	--	--

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

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EDDY COUNTY

LOCAL IDENT- IFIER	STATION NUMBER	DATE OF SAMPLE	TIME	GEO- LOGIC UNIT	TOTAL DEPTH OF WELL (FT) (72008)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANGANESE (MN) (UG/L) (01056)	DIS- SOLVED CALCIUM (CA) (MG/L) (00915)
218,26E,28,143	322705104180201	74-06-01	1200	313CPTN	--	19	10	0	260
248,27E,12,300	321340104090001	74-05-30	1440	313CPTN	--	17	10	--	430
248,29E,16,133 USGS NO 8	321305103595101	74-01-11	1620	312CLBR	203	--	--	--	--
		74-09-13	1000	312CLBR	203	--	--	--	--
		74-09-27	1030	312CLBR	203	--	--	--	--
		74-10-04	1005	312CLBR	203	--	--	--	--
		74-12-16	1015	312CLBR	203	--	--	--	--
248,29E,16,133A	321305103594901	74-12-16	1330	110AVMB	--	--	--	--	--
248,29E,19,222	321234104005401	74-07-23	1105	--	--	--	--	--	--
248,29E,20,122	321234104002601	74-07-18	1305	--	--	--	--	--	--
248,29E,20,134	320215104004201	74-07-18	1415	312CLBR	--	--	--	--	--
		74-12-16	0940	312CLBR	--	--	--	--	--
248,29E,20,322	321209104002101	74-07-18	1325	312CLBR	--	--	--	--	--
		74-12-17	1110	312CLBR	--	--	--	--	--
248,29E,20,412	321210104001501	74-07-18	1330	110AVMB	--	--	--	--	--

DATE OF SAMPLE	DIS- SOLVED MAG- NE- SIUM (MG) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (00900)
74-06-01	80	92	3.5	188	0	750	170	.6	2.8	.03	1480	980
74-05-30	95	200	4.3	143	0	1300	340	.6	.30	--	2460	1500
74-01-11	--	--	--	--	--	--	142000	--	--	--	--	--
74-09-13	--	--	--	--	--	--	139000	--	--	--	--	--
74-09-27	--	--	--	--	--	--	144000	--	--	--	--	--
74-10-04	--	--	--	--	--	--	141000	--	--	--	--	--
74-12-16	--	--	--	--	--	--	141000	--	--	--	--	--
74-12-16	--	--	--	--	--	--	540	--	--	--	--	--
74-07-23	--	--	--	--	--	--	26600	--	--	--	--	--
74-07-18	--	--	--	--	--	--	49800	--	--	--	--	--
74-07-18	--	--	--	--	--	--	173000	--	--	--	--	--
74-12-16	--	--	--	--	--	--	173000	--	--	--	--	--
74-07-18	--	--	--	--	--	--	149000	--	--	--	--	--
74-12-17	--	--	--	--	--	--	152000	--	--	--	--	--
74-07-18	--	--	--	--	--	--	103000	--	--	--	--	--

DATE OF SAMPLE	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DENSITY (GM/ML AT 20 C) (71820)	DIS- SOLVED BORON (B) (UG/L) (01020)
74-06-01	820	1.3	2060	7.4	--	--	--
74-05-30	1300	2.3	3200	7.5	20.0	--	180
74-01-11	--	--	213000	--	--	1.163	--
74-09-13	--	--	209000	--	--	1.150	--
74-09-27	--	--	217000	--	20.0	1.164	--
74-10-04	--	--	213000	--	20.0	1.156	--
74-12-16	--	--	209000	--	19.5	1.149	--
74-12-16	--	--	4190	--	19.0	--	--
74-07-23	--	--	69700	--	20.0	1.032	--
74-07-18	--	--	114000	--	21.5	1.060	--
74-07-18	--	--	230000	--	21.0	1.196	--
74-12-16	--	--	223000	--	19.0	1.178	--
74-07-18	--	--	222000	--	21.0	1.176	--
74-12-17	--	--	217000	--	19.5	1.162	--
74-07-18	--	--	182000	--	21.5	1.115	--

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

EDDY COUNTY--Continued

EDDY COUNTY--Continued						TOTAL	DIS-	DIS-	DIS-	DIS-
LOCAL IDENT- I- FIER	STATION	NUMBER	DATE OF SAMPLE	TIME	GEO- LOGIC UNIT	DEPTH OF WELL (FT) (7200R)	SOLVED SILICA (SI02) (MG/L) (00955)	SOLVED IRON (FE) (UG/L) (01046)	SOLVED MANGANESE (MN) (UG/L) (01056)	SOLVED CAL- CIUM (CA) (MG/L) (00915)
24S,29E,20,431	321157104001501		74-07-18	1100	312HSLR	--	--	--	--	--
24S,29E,20,432A	321157104000601		74-07-18	1345	312HSLR	--	--	--	--	--
24S,29E,20,141	321128104003301		74-07-18	1525	312CLBR	--	--	--	--	--
24S,29E,20,143	321122104003301		74-07-18	1530	312CLBR	--	--	--	--	--
24S,29E,20,213	321134104001701		74-07-18	1430	312CLBR	--	--	--	--	--
24S,29E,20,241	321128104000201		74-07-18	1440	312PSLR	--	--	--	--	--
24S,29E,20,413	321108104001801		74-07-18	1505	110AVMB	--	--	--	--	--
			74-12-16	1100	110AVMB	--	--	--	--	--
24S,29E,20,433	321057104001801		74-07-18	1500	110AVMB	--	--	--	--	--
			74-12-16	1050	110AVMB	--	--	--	--	--
24S,29E,30,222	321143104005601		74-07-19	0855	110AVMB	--	--	--	--	--
24S,29E,30,222A	321142104005601		74-07-19	0910	110AVMB	--	--	--	--	--
24S,29E,30,242	321130104005601		74-07-19	0930	110AVMB	--	--	--	--	--
24S,29E,30,242A	321129104005601		74-07-19	0920	110AVMB	--	--	--	--	--

DATE OF SAMPLE	DIS- SOLVED MAG- NE- SIUM (MG) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO, PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (00900)
74-07-18	--	--	--	--	--	--	113000	--	--	--	--	--
74-07-18	--	--	--	--	--	--	112000	--	--	--	--	--
74-07-18	--	--	--	--	--	--	20200	--	--	--	--	--
74-07-18	--	--	--	--	--	--	17200	--	--	--	--	--
74-07-18	--	--	--	--	--	--	56900	--	--	--	--	--
74-07-18	--	--	--	--	--	--	55300	--	--	--	--	--
74-07-18	--	--	--	--	--	--	9450	--	--	--	--	--
74-12-16	--	--	--	--	--	--	9800	--	--	--	--	--
74-07-18	--	--	--	--	--	--	13200	--	--	--	--	--
74-12-16	--	--	--	--	--	--	10400	--	--	--	--	--
74-07-19	--	--	--	--	--	--	15500	--	--	--	--	--
74-07-19	--	--	--	--	--	--	16100	--	--	--	--	--
74-07-19	--	--	--	--	--	--	11800	--	--	--	--	--
74-07-19	--	--	--	--	--	--	12600	--	--	--	--	--

DATE OF SAMPLE	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DENSITY (GM/ML AT 20 C) (71820)	DIS- SOLVED BORON (B) (UG/L) (01020)
74-07-18	--	--	194000	--	21.5	1.128	--
74-07-18	--	--	196000	--	21.5	1.130	--
74-07-18	--	--	55500	--	21.0	1.027	--
74-07-18	--	--	49000	--	21.0	1.023	--
74-07-18	--	--	122000	--	21.0	1.066	--
74-07-18	--	--	121000	--	--	1.064	--
74-07-18	--	--	31600	--	21.5	1.014	--
74-12-16	--	--	33400	--	16.5	1.016	--
74-07-18	--	--	41700	--	21.5	1.019	--
74-12-16	--	--	33100	--	6.5	1.015	--
74-07-19	--	--	47000	--	21.0	1.022	--
74-07-19	--	--	46400	--	21.0	1.021	--
74-07-19	--	--	37700	--	21.0	1.017	--
74-07-19	--	--	38800	--	21.0	1.018	--

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

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GRANT COUNTY

LOCAL IDENT- IFIER	STATION	NUMBER	DATE OF SAMPLE	TIME	GEO- LOGIC UNIT	INSTAN- TANEOUS FLOW RATE (GPM) (00059)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)
GILA HOT SPRINGS, NM	331155108121601	74-12-05	1450	000EXRV	--	--	72	--	--	--
163, 14W, 35, 214	325242108152401	74-07-20	--	326MGDL	198	16	30	20	59	--
183, 10W, 13, 111	324457107500401	74-12-05	1105	000EXRV	--	56	10	0	3.3	--
183, 14W, 28, 141	324259108175301	74-08-28	1130	121GILA	1050	8.8	50	0	48	--
203, 11W, 20, 243	323409107595001	74-12-05	0835	000EXRV	--	41	60	0	34	--

DATE OF SAMPLE	DIS- SOLVED MAG- NE- SIUM (MG) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	BROMIDE (BR) (MG/L) (71870)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (SUM OF TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (00900)
74-12-05	--	120	3.5	101	--	100	--	.2	--	--	--	--
74-07-20	9.4	45	2.1	220	75	11	2.3	--	.08	.07	329	190
74-12-05	.6	94	1.3	--	65	17	18	.0	.22	.05	--	11
74-08-28	9.7	27	1.4	216	15	14	.8	--	2.1	.05	241	160
74-12-05	7.4	79	7.6	277	49	17	5.9	.1	.04	.01	378	120

DATE OF SAMPLE	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNIT8) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
74-12-05	--	--	620	7.5	61.0	100
74-07-20	6	1.4	531	--	24.8	--
74-12-05	--	13	455	8.3	60.5	50
74-08-28	0	.9	423	--	22.5	--
74-12-05	0	3.2	603	7.1	53.5	70

LOCAL IDENT- I- FIER	STATION	NUMBER	DATE OF SAMPLE	TIME	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
GILA HOT SPRINGS,NM	331155108121601		74-12-05	1450	100	--	220	--
183,10W,13,111	324457107500401		74-12-05	1105	50	10	100	0
203,11W,20,243	323409107595001		74-12-05	0835	70	60	130	0

GUADALUPE COUNTY

LOCAL IDENT- IFIER	STATION	NUMBER	DATE OF SAMPLE	TIME	GEO- LOGIC UNIT	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED MAN- GANESE (MN) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)
09N, 21E, 08, 231	350125104435301	74-09-30	1600	3138	ADRU	18	490	170	450	14

DATE OF SAMPLE	BICAR- BONATE (HCO3) (MG/L) (00440)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNIT8) (00400)	TEMPER- ATURE (DEG C) (00010)
74-09-30	74	2500	250	.9	.00	3930	1900	1900	4.5	4520	8.5	19.0

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

MCKINLEY COUNTY

LOCAL IDENT- IFIER	STATION	NUMBER	DATE OF SAMPLE	TIME	GEU- LOGIC UNIT	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)
NAVAJO RESERVATION	355038108445601		74-10-02	1115	110AVMB	35	20	50	75	5.9
	355426108250501		74-10-02	1535	221WSRC	10	50	10	5.8	1.1
17N,12W,20,110	354134108082301		74-06-08	1610	221WSRC	18	0	--	1.9	.0
17N,12W,30,240	354029108090301		74-10-29	1520	221WSRC	19	10	10	12	4.1
18N,17W,23,000	354630108370101		74-10-29	1740	211GLLP	10	10	0	3.4	.5

DATE OF SAMPLE	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUD- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHU- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF TUNTS) (MG/L) (70301)	HARD- NESS (CA, MG) (00900)
74-10-02	48	1.8	272	--	58	23	.4	.33	.04	--	383	210
74-10-02	720	3.1	1130	237	11	180	8.8	.09	.05	--	1730	19
74-06-08	120	1.1	244	12	55	5.3	.3	.05	.13	345	334	4
74-10-29	120	2.3	252	--	93	3.4	.4	.05	.00	--	379	47
74-10-29	530	2.3	289	22	720	98	1.3	.22	.01	--	1530	11

DATE OF SAMPLE	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
74-10-02	0	1.4	613	--	27.5	--
74-10-02	0	72	2820	--	27.5	--
74-06-08	0	24	545	8.4	--	70
74-10-29	0	7.6	601	--	--	--
74-10-29	0	71	2310	--	--	--

LOCAL IDENT- IFIER	STATION	NUMBER	DATE OF SAMPLE	TIME	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED GROSS ALPHA AS U=NAT. (UG/L) (80030)	SUS- PENDE GROSS ALPHA AS U=NAT. (UG/L) (80040)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L) (03515)	SUS- PENDE GROSS BETA AS CS-137 (PC/L) (03516)
17N,12W,20,110	354134108082301		74-06-08	1610	70	0	<5.4	3.7	3.0	2.5

DATE OF SAMPLE	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L) (80050)	SUS- PENDE GROSS BETA AS SR90 /Y90 (PC/L) (80060)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DIS- SOLVED NATURAL URANIUM (U) (UG/L) (22703)	DIS- SOLVED URANIUM (U) (UG/L) (80020)
74-06-08	2.4	2.0	.05	<.4	.09

RIO ARRIBA COUNTY

LOCAL IDENT- IFIER	STATION	NUMBER	DATE OF SAMPLE	TIME	GEO- LOGIC UNIT	DIS- SOLVED SILICA (SIU2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (MG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (MG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)
OJO CALIENTE IRON SPRING	361816106030801	74-12-03	0950	000HLFS		--	--	--	--	--
		74-12-03	0955	000HLFS		6.3	--	--	--	--
21N,02E,14,433	360237106413901	74-06-19	1550	318ABO L		10	20	20	88	19
		74-11-26	1000	318ABO L		--	--	--	--	--
22N,03E,22,111	360748106365601	74-06-19	1255	231CHNL		19	40	0	30	7.7
22N,05E,01,322	360957106211901	74-03-07	1305	112SNTFU		10	--	--	--	--
	360958106211601	74-03-07	1400	112SNTFU		50	80	0	12	4.8
		74-03-07	1410	112SNTFU		10	--	--	--	--
22N,05E,06,324	370949106263301	74-06-19	1000	112SNTF		51	30	0	11	3.0
23N,05E,15,212	361559106230601	74-03-07	1530	221MRBN		23	10	1200	340	70
23N,07W,14,100	361338107354901	74-10-24	--	124ANMS		13	20	10	1.7	.0
24N,02W,28,100	361712107033301	74-10-23	1245	124SNJS		10	10	0	1.7	.0
24N,05W,23,400	361744107191901	74-10-24	1620	124SNJS		7.6	10	0	2.5	.2
25N,03W,33,300	362058107092101	74-10-24	1500	124SNJS		13	10	2000	450	230
26N,04W,23,400	362808107125901	74-10-17	1615	124SNJS		8.3	10	0	51	17
29N,06W,20,300	364227107292601	74-11-17	1215	124SNJS		17	10	940	480	49
29N,06W,35,000	364105107252801	74-10-27	1230	124SNJS		13	10	0	54	10
29N,07W,04,3143	364505107345601	74-10-16	1507	124SNJS		20	10	960	530	15
29N,07W,05,3132	364510107360301	74-10-16	1445	124SNJS		22	10	70	540	17
29N,07W,23,3412	363844107394001	74-10-27	1400	124SNJS		19	0	1600	230	34

DATE OF SAMPLE	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	BROMIDE (BR) (MG/L) (71870)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SULFOS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (00900)
74-12-03	890	--	207	--	--	270	--	1.4	--	--	--	--
74-12-03	--	--	--	--	--	--	--	--	--	--	--	--
74-06-19	8.4	2.2	381	--	9.0	2.6	.2	.0	.50	.64	332	300
74-11-26	--	--	--	--	--	--	--	--	--	--	--	--
74-06-19	50	6.9	247	--	20	2.5	1.2	<.1	.88	.00	263	110
74-03-07	--	--	--	--	--	--	--	--	--	--	--	--
74-03-07	9.9	1.1	80	0	2.1	1.9	.2	.0	.43	.05	124	50
74-03-07	--	--	--	--	--	--	--	--	--	--	--	--
74-06-19	7.7	1.0	60	--	4.1	1.5	.4	<.1	.65	.04	112	40
74-03-07	330	13	362	0	1100	330	.5	1.0	.02	.04	2390	1100
74-10-24	250	.9	318	31	230	7.5	1.3	--	.21	.70	695	4
74-10-23	190	1.1	376	--	100	2.4	.6	--	.05	.01	491	4
74-10-24	290	3.0	305	9	370	6.1	1.0	--	.02	.00	840	7
74-10-24	550	6.0	303	--	2800	89	.1	--	.05	.01	4290	2100
74-10-17	340	1.6	413	0	580	11	.7	--	.97	.01	1220	200
74-11-17	490	4.4	484	--	2000	66	.4	--	.59	.00	3350	1400
74-10-27	360	1.6	756	--	320	12	1.3	--	.93	.21	1150	180
74-10-16	220	2.9	322	--	1600	7.8	.6	--	.07	.01	2560	1400
74-10-16	110	2.4	189	--	1500	8.5	.5	--	.02	.00	2290	1400
74-10-27	140	3.5	697	--	320	18	.5	--	1.4	.02	1120	710

DATE OF SAMPLE	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (MG/L) (01020)
74-12-03	--	--	3900	6.6	40.0	1500
74-12-03	--	--	--	--	40.0	--
74-06-19	0	.2	570	7.1	10.5	20
74-11-26	--	--	--	--	6.0	--
74-06-19	0	2.1	430	7.4	11.0	110
74-03-07	--	--	145	--	16.0	--
74-03-07	0	.6	141	7.8	18.0	10
74-03-07	--	--	--	--	18.0	--
74-06-19	0	.5	120	6.8	16.0	10
74-03-07	840	4.3	3190	7.5	--	150
74-10-24	0	53	1130	--	--	--
74-10-23	0	40	815	--	--	--
74-10-24	0	47	1300	--	--	--
74-10-24	1800	5.3	4890	--	--	--
74-10-17	0	11	1770	8.0	--	--
74-11-17	1000	5.7	3960	--	--	--
74-10-27	0	12	1780	--	--	--
74-10-16	1100	2.6	2990	--	--	--
74-10-16	1300	1.3	2620	--	--	--
74-10-27	140	2.3	1630	--	--	--

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

RIO ARriba COUNTY--Continued

LOCAL IDENT- I- FIER	STATION	NUMBER	DATE OF SAMPLE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MANGANESE (MN) (UG/L) (01056)
UJO CALIENTE IRON SPRING	361816106030801		74-12-03	0950	--	1500	--	--	3300	--
21N,02E,14,433	360237106413901		74-06-19	1550	2	20	--	20	20	20
			74-11-26	1000	--	--	1	--	--	--
22N,03E,22,111	360748106365601		74-06-19	1255	1	110	--	40	100	0
22N,05E,01,322	360958106211601		74-03-07	1400	7	10	--	60	20	0
22N,05E,06,324	370949106263301		74-06-19	1000	2	10	--	30	10	0
23N,05E,15,212	361359106230601		74-03-07	1530	0	150	--	10	130	1200

DATE OF SAMPLE	DIS- SOLVED NATURAL URANIUM (U) (UG/L) (22703)
74-12-03	--
74-06-19	--
74-11-26	5.4
74-06-19	--
74-03-07	--
74-06-19	--
74-03-07	--

SANDOVAL COUNTY

LOCAL IDENT- I- FIER	STATION	NUMBER	DATE OF SAMPLE	TIME	GEO- LOGIC UNIT	DEPTH (FT) (00003)	INSTAN- TANEOUS FLOW RATE (GPM) (00059)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL) (72000)	TOTAL DEPTH OF WELL (FT) (72008)	DEPTH BELOW LAND SURFACE (FT) (72019)
CAN SAN DIEGO GR	354618106412602		74-01-25	1600	110AVMB	--	--	--	--	--
12N,02E,14,433	351546106420501		74-12-12	1100	112SNTF	--	1000	5602	--	637
12N,02E,25,421	351422106404201		74-12-12	1125	112SNTF	--	650	5370	--	373
12N,03E,30,121	351446106400601		74-12-12	1045	112SNTF	--	1000	5356	--	420
12N,04E,05,214	351809106321901		74-09-25	1300	112SNTF	--	--	--	--	--
13N,04E,01,234	352306106275801		74-09-25	1000	112SNTF	--	--	--	--	--
13N,04E,01,412A	352257106275301		74-09-25	1100	112SNTF	--	--	--	--	--
13N,04E,01,421	352303106274601		74-09-25	1145	112SNTF	--	--	--	--	--
15N,01E,10,310	353238106494901		74-01-25	1005	110AVMB	--	--	--	--	--
15N,01E,16,233	353152106504901		74-10-18	1300	231CMNL	--	--	--	--	--
15N,02E,12,431	353226106404501		74-04-04	1250	112SNTF	--	--	--	--	--
15N,02E,22,414	353044106425101		74-04-04	1305	112SNTF	--	--	--	--	--
16N,01W,01,421	353844106531901		74-01-25	0810	110AVMB	--	--	--	--	--
16N,02E,07,423	353743106454801		74-04-04	1005	325MDER	--	--	--	--	--
16N,02E,27,213	353533106425301		74-04-04	1115	112SNTF	--	--	--	--	--

DATE OF SAMPLE	DIS- SOLVED SILICA (SiO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)
74-01-25	19	--	--	--	--	--	--	--	--	--	--	--
74-12-12	50	10	0	18	3,5	53	5,0	127	--	43	6,8	,4
74-12-12	70	80	0	28	5,0	36	7,6	156	--	35	7,3	,3
74-12-12	60	70	0	31	5,9	30	6,4	142	--	37	7,4	,4
74-09-25	73	--	--	41	6,8	79	7,9	200	--	40	7,2	1,0
74-09-25	100	200	0	65	15	77	11	394	--	29	35	,3
74-09-25	39	30	0	150	22	50	3,0	193	--	350	24	,4
74-09-25	78	3000	70	210	51	180	11	514	--	580	53	,4
74-01-25	4,4	--	--	--	--	--	--	--	--	--	--	--
74-10-18	--	--	--	--	--	3900	140	--	--	--	2800	--
74-04-04	36	1700	0	49	1,5	56	5,5	228	0	57	4,2	,4
74-04-04	--	--	--	--	--	53	7,1	--	--	--	34	--
74-01-25	7,0	--	--	--	--	--	--	--	--	--	--	--
74-04-04	--	--	--	--	--	--	--	--	--	--	--	--
74-04-04	30	3700	20	64	9,2	69	9,6	185	0	190	4,9	,5

DATE OF SAMPLE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTH- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTIT- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)		
74-01-25	--	--	--	--	--	--	--	--	--	--		
74-12-12	--	--	5,0	,04	263	265	59	0	3,0	367	--	19,5
74-12-12	--	--	,03	,05	264	267	91	0	1,6	352	7,4	13,0
74-12-12	--	--	1,4	,04	251	255	100	0	1,3	348	7,5	16,0
74-09-25	,3	--	,22	--	--	421	130	0	3,0	642	--	27,0
74-09-25	--	--	,12	,09	548	528	220	0	2,2	749	6,6	25,5
74-09-25	--	--	2,7	,04	780	746	470	310	1,0	1050	--	19,5
74-09-25	--	--	,08	,06	1420	1420	730	310	2,9	1880	6,4	21,5
74-01-25	--	--	--	--	--	--	--	--	--	--	--	15,0
74-10-18	10	--	--	--	--	--	--	--	--	20000	--	18,0
74-04-04	<,1	--	1,9	,00	--	332	130	0	2,2	490	7,9	17,0
74-04-04	--	--	--	--	346	--	--	--	--	510	--	18,5
74-01-25	--	--	--	--	--	--	--	--	--	--	--	51,0
74-04-04	--	--	--	--	--	--	--	--	--	--	--	16,0
74-04-04	<,1	--	4,7	,00	--	493	200	46	2,1	704	6,1	15,0

DATE
OF
SAMPLE

DIS-
SOLVED
BORD-
ON
(B)
(UG/L)
(01020)

74-01-25	--
74-12-12	150
74-12-12	80
74-12-12	80
74-09-25	560
74-09-25	380
74-09-25	360
74-09-25	270
74-01-25	--
74-10-18	8200
74-04-04	110
74-04-04	--
74-01-25	--
74-04-04	--
74-04-04	240

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

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SANDOVAL COUNTY--Continued

LOCAL IDENT- IFIER	STATION NUMBER	DATE OF SAMPLE	TIME	GEOL- OGIC UNIT	DEPTH (FT) (00003)	INSTAN- TANEOUS FLOW RATE (GPM) (00059)	ELEV. OF LAND SURFACE DATUM (FT, ABOVE MSL) (72000)	TOTAL DEPTH OF WELL (FT) (72008)	DEPTH BELOW LAND SURFACE (FT) (72019)
	355254106401201	74-04-23	1330	325MDEH	--	--	--	--	--
	355254106401202	74-05-03	1015	400PCMB	3557	--	--	--	--
		74-05-03	1030	400PCMB	--	--	--	--	--
	355254106401203	74-05-14	1200	400PCMB	--	--	--	--	--
	355254106401204	74-07-17	1600	400PCMB	--	--	--	--	--
	355254106401201	74-09-19	1400	400PCMB	--	--	--	--	--
19N,03E,08,442	355315106384901	74-09-24	1245	110AVMB	--	--	--	--	--
19N,03E,16,444	355222106372201	74-09-24	1235	110AVMB	--	--	--	--	--
19N,03E,17,344	355247106383601	74-03-04	1250	110AVMB	--	--	--	--	--
		74-07-23	1100	110AVMB	--	--	--	--	--

DATE OF SAMPLE	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCU3) (MG/L) (00440)	CAR- BONATE (CU3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLOR- IDE (CL) (MG/L) (00940)	DIS- SOLVED FLUOR- IDE (F) (MG/L) (00950)
74-04-23	1.6	1200	70	1.7	2.1	6300	350	6820	1080	2100	3500	10
74-05-03	110	1200	50	7.3	13	4800	180	--	--	1600	2600	16
74-05-03	17	--	--	--	--	--	--	--	--	--	--	--
74-05-14	76	30	340	22	20	3200	150	--	0	1200	1800	16
74-07-17	57	40000	780	30	3.6	580	35	993	--	160	320	2.0
74-09-19	--	--	--	12	.6	270	19	439	--	85	140	1.5
74-09-24	--	--	--	32	9.1	--	--	236	--	20	4.2	.5
74-09-24	--	--	--	--	--	12	8.3	189	--	--	23	.4
74-03-04	15	--	--	--	--	--	--	--	--	--	--	--
74-07-23	--	--	--	--	--	--	--	--	--	--	--	--

DATE OF SAMPLE	BROMIDE (BR) (MG/L) (71870)	IODIDE (I) (MG/L) (71865)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)
74-04-23	16	.48	.06	1.1	--	16800	13	0	764	22900	8.8	--
74-05-03	14	.03	.08	.36	--	9380	72	72	247	18100	7.7	--
74-05-03	--	--	--	--	--	--	--	--	--	--	--	--
74-05-14	8.3	.17	.01	.16	--	--	140	140	119	13000	7.7	76.0
74-07-17	3.7	--	.24	.07	--	1730	92	0	27	2720	7.2	--
74-09-19	--	--	--	--	939	--	32	0	21	1330	7.3	--
74-09-24	--	--	--	--	286	--	120	0	--	419	6.8	--
74-09-24	--	--	--	--	294	--	--	--	--	390	7.2	--
74-03-04	.1	--	--	--	--	--	--	--	--	--	--	16.0
74-07-23	<.8	--	--	--	--	--	--	--	--	--	--	--

DATE
OF
SAMPLE

DIS-
SOLVED
BORON
(B)
(UG/L)
(01020)

74-04-23 25000
74-05-03 26000
74-05-03 --
74-05-14 15000
74-07-17 15000

74-09-19 1900
74-09-24 530
74-09-24 30
74-03-04 40
74-07-23 20

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

SANDOVAL COUNTY--Continued

LOCAL IDENT- IFIER	STATION NUMBER	DATE OF SAMPLE	TIME	GEO- LOGIC UNIT	DEPTH (FT) (000033)	INSTAN- TANEOUS FLOW RATE (GPM) (00059)	ELEV. OF LAND SURFACE DATUM (FT, ABOVE MSL) (72000)	TOTAL DEPTH OF WELL (FT) (72008)	DEPTH BELOW LAND SURFACE (FT) (72019)
19N,03E,32,331	354949106385601	74-02-07	1200	325MDER	--	--	--	155	--
	354949106385602	74-03-21	0945	325MDER	--	--	--	--	--
19N,03E,32,341	354946106384601	74-01-25	1400	325MDER	--	--	--	--	--
		74-03-04	1410	325MDER	--	--	--	--	--
20N,01E,06,233	355935106522901	74-08-05	1045	318ABU L	--	--	--	--	--
		74-11-26	0845	318ABU L	--	--	--	--	--
20N,02E,27,222	355634106421401	74-02-22	1100	112BDLR	--	--	--	--	--
20N,02E,35,111	355541106420801	74-02-22	1015	112BDLR	--	--	--	--	--
20N,03E,27,433	355544106423701	74-02-22	1145	112BDLR	--	--	--	--	--
20N,03E,29,123	355623106383601	74-02-24	1800	112VLLS	--	--	--	--	--
		74-02-24	1900	112VLLS	--	--	--	--	--
21N,02W,09,124	360407107032201	74-10-22	1015	124SNJS	--	--	--	--	--
23N,04W,07,412	361413107172901	74-10-21	1210	--	--	--	--	--	--
23N,06W,22,300	361235107374001	74-10-24	1000	124SNJS	--	--	--	--	--

DATE OF SAMPLE	DIS- SOLVED SILICA (SIO2) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MANG) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLOR- IDE (CL) (MG/L) (00940)	DIS- SOLVED FLUOR- IDE (F) (MG/L) (00950)
74-02-07	8.8	--	--	--	--	--	--	--	--	--	--	--
74-03-21	37	2000	240	130	25	100	11	662	0	32	61	1.0
74-01-25	9.7	--	--	--	--	--	--	--	--	--	--	--
74-03-04	--	--	--	--	--	--	--	--	--	--	--	--
74-08-05	12	50	20	50	12	65	5.2	374	--	9.7	4.8	.4
74-11-26	--	--	--	--	--	--	--	--	--	--	--	--
74-02-22	36	--	--	--	--	--	--	--	--	--	--	--
74-02-22	33	--	--	--	--	--	--	--	--	--	--	--
74-02-22	42	--	--	--	--	--	--	--	--	--	--	--
74-02-24	77	--	--	--	--	--	--	--	--	--	--	--
74-02-24	16	--	--	--	--	--	--	--	--	--	--	--
74-10-22	16	20	70	74	11	48	3.9	178	--	190	5.4	.3
74-10-21	8.1	10	0	2.5	.0	260	1.1	401	21	220	5.2	.7
74-10-24	8.3	10	40	140	1.5	300	2.5	100	--	920	5.1	.5

DATE OF SAMPLE	BROMIDE (BR) (MG/L) (71870)	IODIDE (I) (MG/L) (71865)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHU- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF TUENTS) (MG/L) (70301)	HARD- NESS (CA, MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SURP- TION RATIO (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHQS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)
74-02-07	--	--	--	--	--	--	--	--	--	--	--	14.5
74-03-21	.3	--	.07	.05	--	728	430	0	2.1	1210	6.9	16.5
74-01-25	--	--	--	--	--	--	--	--	--	--	--	--
74-03-04	--	--	--	--	--	--	--	--	--	--	--	18.5
74-08-05	.1	--	.11	.00	--	344	170	0	2.1	580	7.2	10.5
74-11-26	--	--	--	--	--	--	--	--	--	--	--	8.0
74-02-22	--	--	--	--	--	--	--	--	--	--	--	12.0
74-02-22	--	--	--	--	--	--	--	--	--	--	--	10.0
74-02-22	--	--	--	--	--	--	--	--	--	--	--	12.0
74-02-24	--	--	--	--	--	--	--	--	--	--	--	--
74-02-24	--	--	--	--	--	--	--	--	--	--	--	--
74-10-22	--	--	.06	.00	--	435	230	64	1.4	672	--	--
74-10-21	--	--	.04	.02	--	717	6	0	45	1140	--	--
74-10-24	--	--	.24	.00	--	1430	560	270	6.9	1970	--	--

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LOCAL IDENT= I= FIER	STATION	NUMBER	DATE OF SAMPLE	TIME	DIS- SOLVED ALUM- INUM (AL) (UG/L) (01106)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CU) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CH6) (UG/L) (01032)	EXAM- VALENT CHRO- MIUM (CH6) (UG/L) (01032)
433		351546106420501	74-12-12	1100	--	20	<100	150	0	0	0
421		351422106404201	74-12-12	1125	--	7	<100	80	0	0	0
121		351446106400601	74-12-12	1045	--	9	<100	80	0	0	0
214		351809106321901	74-09-25	1300	--	--	--	560	--	--	--
234		352306106275801	74-09-25	1000	--	9	100	380	0	0	0
412A		352257106275301	74-09-25	1100	--	3	0	360	0	0	0
421		352303106274601	74-09-25	1145	--	4	0	270	1	0	0
310		353238106494901	74-11-12	1600	--	--	--	--	--	--	--
233		353152106504901	74-10-18	1300	--	190	--	8200	--	--	--
431		353226106404501	74-04-04	1250	--	4	--	110	--	--	--
421		353844106531901	74-12-02	0950	--	--	--	--	--	--	--
423		353743106454801	74-04-04	1005	--	--	--	--	--	--	--
213		353533106425301	74-04-04	1115	--	12	--	240	--	--	--
142		353529106450701	74-08-30	0930	--	--	--	--	--	--	--
340		354808106405001	74-09-05	1405	--	--	--	--	--	--	--
442		354729106411001	74-11-12	1440	--	--	--	--	--	--	--
432		354614106412901	74-05-30	1510	--	780	--	7400	--	--	--
		354618106412601	74-11-12	1500	--	--	--	--	--	--	--
211		354604106413601	74-05-28	1045	--	230	--	1900	--	--	--
334		354522106420001	74-07-03	0810	--	5	--	2100	--	--	--

DATE OF SAMPLE	DIS- SOLVED CUBALT (CU) (UG/L) (01035)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MANGANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED NICKEL (NI) (UG/L) (01065)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED Selenium (SE) (UG/L) (01145)	DIS- SOLVED STRONTIUM (SR) (UG/L) (01080)
74-12-12	--	1	10	<100	1	100	0	<.1	--	0	2	--
74-12-12	--	1	80	<100	4	100	0	.2	--	0	0	--
74-12-12	--	1	70	<100	0	90	0	<.1	--	0	0	--
74-09-25	--	--	--	--	--	130	--	--	--	--	--	--
74-09-25	--	0	200	<100	--	110	0	.0	--	1	0	--
74-09-25	--	1	30	<100	--	10	0	.0	--	1	4	--
74-09-25	--	19	3000	<100	--	200	70	.0	--	2	1	--
74-11-12	--	--	--	--	--	--	--	--	--	--	--	--
74-10-18	--	--	--	--	--	7100	--	--	--	--	--	--
74-04-04	--	--	1700	--	--	60	0	--	--	--	--	--
74-12-02	--	--	--	--	--	--	--	--	--	--	--	--
74-04-04	--	--	--	--	--	110	--	--	--	--	--	--
74-04-04	--	--	3700	--	--	140	20	--	--	--	--	--
74-08-30	--	--	--	--	--	--	--	--	--	--	--	--
74-09-05	--	--	--	--	--	0	--	--	--	--	--	--
74-11-12	--	--	--	--	--	--	--	--	--	--	--	--
74-05-30	--	--	450	--	--	7800	300	--	--	--	--	--
74-11-12	--	--	--	--	--	--	--	--	--	--	--	--
74-05-28	--	--	750	--	--	2300	620	--	--	--	--	--
74-07-03	--	--	--	--	--	370	--	--	--	--	--	--

[illegible]

DIS-

[illegible]

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

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SANDOVAL COUNTY--Continued

LOCAL IDENT- I- FILER	STATION NUMBER	DATE OF SAMPLE	TIME	DIS- SOLVED ALUM- INUM (AL) (UG/L) (01106)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAU- MIUM (CU) (UG/L) (01025)	DIS- SOLVED VAL- MIUM (CR6) (UG/L) (01032)
19N,03E,29,420	355049106380901	74-05-10	1245	--	--	--	--	--	--
19N,03E,32,324	354952106383401	74-05-10	1300	--	--	--	--	--	--
19N,03E,32,331	354949106385602	74-03-21	0945	--	5	--	510	--	--
	354949106385601	74-11-26	1300	--	--	--	--	--	--
		74-11-26	1330	--	--	--	--	--	--
19N,03E,32,341	354946106384601	74-03-04	1410	--	--	--	--	--	--
		74-11-12	1420	--	--	--	--	--	--
20N,01E,06,233	355935106522901	74-08-05	1045	--	0	--	90	--	--
		74-11-26	0845	--	--	--	--	--	--
20N,02E,27,222	355634106421401	74-02-22	1100	--	--	--	7	--	--
		74-11-12	1110	--	--	--	--	--	--
20N,02E,35,111	355541106420801	74-02-22	1015	--	--	--	10	--	--
20N,03E,27,433	355544106423701	74-02-22	1145	--	--	--	20	--	--
20N,03E,29,123	355623106383601	74-02-24	1800	--	--	--	30	--	--
		74-11-12	1010	--	--	--	--	--	--

DATE OF SAMPLE	DIS- SOLVED CUMALTY (CU) (UG/L) (01035)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED NICKEL (NI) (UG/L) (01065)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED STRON- TIUM (SR) (UG/L) (01080)
74-05-10	--	--	--	--	--	300	--	--	--	--	--	--
74-05-10	--	--	--	--	--	0	--	--	--	--	--	--
74-03-21	--	--	2000	--	--	690	240	--	--	--	--	--
74-11-26	--	--	--	--	--	--	--	--	--	--	--	--
74-11-26	--	--	--	--	--	--	--	--	--	--	--	--
74-03-04	--	--	--	--	--	3600	--	--	--	--	--	--
74-11-12	--	--	--	--	--	--	--	--	--	--	--	--
74-08-05	--	--	50	--	--	100	20	--	--	--	--	--
74-11-26	--	1	--	--	--	--	--	--	--	--	--	--
74-02-22	--	--	--	--	--	10	--	--	--	--	--	--
74-11-12	--	--	--	--	--	--	--	--	--	--	--	--
74-02-22	--	--	--	--	--	10	--	--	--	--	--	--
74-02-22	--	--	--	--	--	10	--	--	--	--	--	--
74-02-24	--	--	--	--	--	40	--	--	--	--	--	--
74-11-12	--	--	--	--	--	--	--	--	--	--	--	--

DATE OF SAMPLE	DIS- SOLVED ZINC (ZN) (UG/L) (01090)	DIS- SOLVED GROSS ALPHA AS (UG/L) (80030)	SUS- PENDE GROSS ALPHA AS (UG/L) (80040)	DIS- SOLVED GROSS BETA AS (PC/L) (03515)	SUS- PENDE GROSS BETA AS (PC/L) (03516)	DIS- SOLVED GROSS BETA AS SR90 (PC/L) (80050)	SUS- PENDE GROSS BETA AS SR90 (PC/L) (80060)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DIS- SOLVED NATURAL URANIUM (U) (UG/L) (22703)	DIS- SOLVED URANIUM (U) (UG/L) (80020)
74-05-10	--	--	--	--	--	--	--	--	--	--
74-05-10	--	--	--	--	--	--	--	--	--	--
74-03-21	--	--	--	--	--	--	--	--	--	--
74-11-26	--	--	--	--	--	--	--	--	1.4	--
74-11-26	--	<25	.4	35	1.4	29	1.3	4.3	4.9	--
74-03-04	--	--	--	--	--	--	--	--	--	--
74-11-12	--	--	--	--	--	--	--	--	.7	--
74-08-05	--	--	--	--	--	--	--	--	--	--
74-11-26	--	--	--	--	--	--	--	--	26	--
74-02-22	--	--	--	--	--	--	--	--	--	--
74-11-12	--	--	--	--	--	--	--	--	.4	--
74-02-22	--	--	--	--	--	--	--	--	--	--
74-02-22	--	--	--	--	--	--	--	--	--	--
74-02-24	--	--	--	--	--	--	--	--	--	--
74-11-12	--	1.9	2.2	2.5	1.7	2.3	1.5	.03	<.4	--

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

SAN JUAN COUNTY

LOCAL IDENT- 1- FIER	STATION NUMBER	DATE OF SAMPLE	TIME	GEU- LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL)	TOTAL DEPTH OF WELL (FT)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MANG- NESE (MN) (UG/L)
21N,13W,06,1121	360521108161301	74-10-29	1130	211GLLP	--	--	16	10	0
23N,09W,01,2321	361534107441401	74-10-25	1410	124ANMS	--	--	11	30	0
23N,14W,14,1312	361305106182001	74-10-28	1600	211CLFM	--	--	9.9	0	70
24N,10W,12,2223	361936107505401	74-10-25	1555	124ANMS	--	--	13	0	0
26N,10W,08	363029107551601	74-10-26	--	125NCMN	--	--	9.5	10	10
26N,11W,33,2142	362618108001601	74-10-28	1230	124ANMS	--	--	12	10	0
27N,11W,11,300	363510107583801	74-10-26	1000	124ANMS	--	--	15	10	0
27N,12W,16,1444	363444108064201	74-10-26	1400	124ANMS	--	--	13	10	20
28N,10W,26,320	363753107521701	74-10-16	1300	125NCMN	--	--	14	10	310
30N,15W,10,444 PS WELL A	364916108234301	74-12-19	1045	211PCCF	5335	600	20	240	0

DATE OF SAMPLE	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAH- BONATE (CO3) (MG/L) (00445)	TOTAL SUL- FIDE (S) (MG/L) (00745)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)
74-10-29	4.2	.7	580	3.6	518	19	--	480	240	3.0	--	--
74-10-25	2.0	.0	250	.8	327	28	--	240	8.0	.9	--	--
74-10-28	30	27	360	4.7	384	--	--	650	9.7	.1	--	--
74-10-25	6.2	.1	190	.8	274	50	--	110	4.1	.4	--	--
74-10-26	2.0	.0	280	1.0	336	47	--	240	11	1.9	--	--
74-10-28	1.0	.0	210	.6	342	21	--	130	8.0	.7	--	--
74-10-26	45	2.2	290	2.4	239	--	--	520	4.4	1.3	--	--
74-10-26	19	.5	210	1.3	299	--	--	260	6.4	1.2	--	--
74-10-16	500	16	690	5.5	136	--	--	2600	15	1.1	--	--
74-12-19	1.9	1.6	1600	16	2400	463	510	19	880	2.8	.00	.00

DATE OF SAMPLE	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHU. PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTIT- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SCDIUM AD- SORP- TION RATIO (00931)
74-10-29	--	.01	--	--	--	--	.00	--	1600	13	0	69
74-10-25	--	.22	--	--	--	--	.06	--	703	5	0	49
74-10-28	--	.44	--	--	--	--	.01	--	1280	190	0	11
74-10-25	--	.09	--	--	--	--	.04	--	510	16	0	21
74-10-26	--	.09	--	--	--	--	.01	--	759	5	0	55
74-10-28	--	.15	--	--	--	--	.02	--	553	3	0	58
74-10-26	--	.03	--	--	--	--	.01	--	998	120	0	11
74-10-26	--	.05	--	--	--	--	.00	--	659	50	0	13
74-10-16	--	.00	--	--	--	--	.01	--	3910	1300	1200	8.3
74-12-19	.00	.00	1.0	1.0	2.0	.20	3.1	4150	4200	11	0	207

DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICHO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	DIS- SOLVED BORON (B) (UG/L) (01020)
74-10-29	2530	--	--	--	--	--	--
74-10-25	1130	--	--	--	--	--	--
74-10-28	1940	--	--	--	--	--	--
74-10-25	832	--	--	--	--	--	--
74-10-26	1200	--	--	--	--	--	--
74-10-28	920	--	--	--	--	--	--
74-10-26	1540	--	--	--	--	--	--
74-10-26	1050	--	--	--	--	--	--
74-10-16	4580	--	--	--	--	--	--
74-12-19	6690	9.1	19.0	10	12	380	1300

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

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SAN JUAN COUNTY--Continued

LOCAL IDENT- IFIER	STATION	NUMBER	DATE OF SAMPLE	TIME	GEO- LOGIC UNIT	ELEV. OF LAND SURFACE DATUM (FT. ABOVE MSL) (72000)	TOTAL DEPTH OF WELL (FT) (72008)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)
30N,15W,15,444 PS WELL C	364826108234301	74-12-17	0935	211FRLD	5260	60	--	--	--	--
		74-12-19	1115	211FRLD	5260	60	11	20	790	--
30N,15W,16,331 PS WELL D	364835108254601	74-12-17	0900	211FRLD	5260	30	--	--	--	--
		74-12-19	1200	211PCCF	5260	30	10	40	720	--
30N,15W,27,422 PS WELL B	364705108234301	74-12-17	1235	211PCCF	5230	450	--	--	--	--
		74-12-19	1245	211PCCF	5230	450	11	70	110	--
30N,15W,32,333 PS WELL F	364554108265401	74-12-17	1400	110AVMB	5120	38	--	--	--	--
		74-12-19	1330	110AVMB	5120	38	8.2	0	0	0
31N,13W,04,2414	365554108120501	74-10-16	1635	125NCMN	--	--	24	40	0	0
32N,13W,15,2324	365921108111201	74-10-28	1045	211PCCF	--	--	13	10	0	0

DATE OF SAMPLE	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	TOTAL SUL- FIDE (S) (MG/L) (00745)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00618)	DIS- SOLVED NITRITE (N) (MG/L) (00613)
74-12-17	--	--	--	--	--	--	--	--	--	--	--	--
74-12-19	380	110	1900	9.4	373	--	.2	4800	32	.4	3.9	.07
74-12-17	--	--	--	--	--	--	--	--	--	--	--	--
74-12-19	440	330	6400	11	875	--	.0	8100	4600	1.1	21	.27
74-12-17	--	--	--	--	--	--	--	--	--	--	--	--
74-12-19	30	22	4000	11	990	--	1.6	4400	2400	2.3	.00	.00
74-12-17	--	--	--	--	--	--	--	--	--	--	--	--
74-12-19	69	27	100	2.3	185	--	.0	300	24	.6	.23	.00
74-10-16	220	75	74	1.5	445	--	--	560	30	.4	--	--
74-10-28	200	93	89	2.3	344	--	--	740	26	.3	--	--

DATE OF SAMPLE	TOTAL NITRITE PLUS NITRATE (N) (MG/L) (00630)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	AMMONIA NITRO- GEN (N) (MG/L) (00610)	TOTAL ORGANIC NITRO- GEN (N) (MG/L) (00605)	TOTAL NITRO- GEN (N) (MG/L) (00600)	TOTAL PHOS- PHORUS (P) (MG/L) (00665)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)
74-12-17	--	--	--	--	--	--	--	--	--	--	--	--
74-12-19	4.1	4.0	.06	.53	4.7	.04	.03	7730	7450	1400	1100	22
74-12-17	--	--	--	--	--	--	--	--	--	--	--	--
74-12-19	29	21	.54	2.0	32	.05	.09	21300	20400	2500	1700	56
74-12-17	--	--	--	--	--	--	--	--	--	--	--	--
74-12-19	.00	.00	4.4	.30	4.7	.09	.07	11600	11400	170	0	135
74-12-17	--	--	--	--	--	--	--	--	--	--	--	--
74-12-19	.27	.23	.03	.12	.42	.14	.10	650	624	280	130	2.6
74-10-16	--	4.2	--	--	--	--	.00	--	1220	860	490	1.1
74-10-28	--	1.0	--	--	--	--	.01	--	1340	880	600	1.3

DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MMOS) (00045)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TUR- BID- ITY (JTU) (00070)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) (00340)	DIS- SOLVED BORON (B) (UG/L) (01020)
74-12-17	7910	7.0	15.0	--	--	--	--
74-12-19	9110	7.0	13.0	5	12	10	180
74-12-17	25800	7.3	12.5	--	--	--	--
74-12-19	25600	7.2	14.0	4	22	200	1100
74-12-17	15100	8.1	15.3	--	--	--	--
74-12-19	16100	8.0	19.5	10	1.9	72	990
74-12-17	879	7.8	--	--	--	--	--
74-12-19	990	7.7	14.0	6	3.4	6	70
74-10-16	1650	--	--	--	--	--	--
74-10-28	1820	--	--	--	--	--	--

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

SAN JUAN COUNTY--Continued

LOCAL IDENT- I- FIER	STATION	NUMBER	DATE (JF SAMPLE	TIME	DIS- SOLVED ALUM- INUM (AL) (UG/L) (01106)	TOTAL ARSENIC (AS) (UG/L) (01002)	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BOMON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CD) (UG/L) (01025)	DIS- SOLVED CHRO- MIUM (CR) (UG/L) (01030)
30N,15W,10,444 PS WELL A	364916108234301	74-12-19	1045		20	1	1	1300	2	0
30N,15W,15,444 PS WELL C	364826108234301	74-12-17	0935		--	0	--	--	--	--
		74-12-19	1115		10	1	0	180	3	10
30N,15W,16,331 PS WELL D	364835108254601	74-12-17	0900		--	1	--	--	--	--
		74-12-19	1200		10	1	1	1100	18	50
30N,15W,27,422 PS WELL B	364705108234301	74-12-17	1235		--	0	--	--	--	--
		74-12-19	1245		0	0	0	990	0	0
30N,15W,32,333 PS WELL F	364554108265401	74-12-17	1400		--	7	--	--	--	--
		74-12-19	1330		0	1	1	70	0	0

DATE OF SAMPLE	DIS- SOLVED COBALT (CO) (UG/L) (01035)	DIS- SOLVED COPPER (CU) (UG/L) (01040)	TOTAL IRON (FE) (UG/L) (01045)	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED LEAD (PB) (UG/L) (01049)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	TOTAL GANESE (MN) (UG/L) (01055)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (71900)	DIS- SOLVED MERCURY (HG) (UG/L) (71890)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L) (01060)
74-12-19	0	1	890	240	200	2	170	10	0	<.1	<.1	0
74-12-17	--	--	--	--	<100	--	--	--	--	0	--	--
74-12-19	6	8	1500	20	200	1	200	770	790	<.1	<.1	5
74-12-17	--	--	--	--	300	--	--	--	--	1	--	--
74-12-19	0	11	1300	40	300	3	280	830	720	<.1	<.1	2
74-12-17	--	--	--	--	100	--	--	--	--	0	--	--
74-12-19	0	0	720	70	100	27	320	110	110	<.1	<.1	1
74-12-17	--	--	--	--	<100	--	--	--	--	2	--	--
74-12-19	0	2	4000	0	<100	2	40	90	0	<.1	<.1	4

DATE OF SAMPLE	TOTAL SELE- NIUM (SE) (UG/L) (01147)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED VANA- DIUM (V) (UG/L) (01085)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)	DIS- SOLVED GROSS ALPHA AS (UG/L) (80030)	SUS- PENDE- D GROSS ALPHA AS (UG/L) (80040)	DIS- SOLVED GROSS BETA AS (PC/L) (03515)	SUS- PENDE- D GROSS BETA AS (PC/L) (03516)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L) (80050)	SUS- PENDE- D GROSS BETA AS SR90 /Y90 (PC/L) (80060)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L) (09511)	DIS- SOLVED NATURAL URANIUM (U) (UG/L) (22703)
74-12-19	0	0	6.6	0	<33	1.8	24	1.3	19	1.2	.57	.7
74-12-17	2	--	--	--	--	--	--	--	--	--	--	--
74-12-19	7	2	.0	40	--	--	--	--	--	--	--	--
74-12-17	0	--	--	--	--	--	--	--	--	--	--	--
74-12-19	2	2	29	100	--	--	--	--	--	--	--	--
74-12-17	0	--	--	--	--	--	--	--	--	--	--	--
74-12-19	2	1	22	20	<94	3.4	<52	2.1	<42	1.8	.19	1.9
74-12-17	0	--	--	--	--	--	--	--	--	--	--	--
74-12-19	1	1	.0	8	<7.0	13	4.9	9.3	3.9	7.9	.05	2.8

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

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SANTA FE COUNTY

LOCAL IDENT- 1- FIFR	STATION	NUMBER	DATE OF SAMPLE	TIME	GEO- LOGIC UNIT	TOTAL DEPTH OF MOLE (FT, BELOW LSD) (72001)	TOTAL DEPTH OF WELL (FT) (72008)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANGANESE (MN) (UG/L) (01056)
10N,07E,27,12113	350408106111101	74-05-21	1445	325MDER	--	327	14	20	0	
14N,07E,36,1314	352405106092401	74-03-26	1320	211MVRD	135	--	24	240	530	
14N,09E,36,3134	352343105564401	74-03-26	1100	110AVMH	90	--	13	10	0	
15N,07E,09,2234	353258106115301	74-05-06	1030	000EXRV	--	--	13	30	0	
15N,10E,05,3434	353306105542001	74-03-21	1230	1128NTF	--	--	22	10	0	
15N,11E,02,2111	353352105443701	74-03-21	1115	3108GRC	185	--	14	10	0	
16N,09E,07,111228	353818106020202	74-04-16	1115	1128NTF	--	--	20	20	0	
16N,09E,12,11222	353819105563501	74-04-11	1430	121TSUG	--	--	37	30	10	
16N,10E,27,24234	353522105513301	74-03-22	1200	110AVMB	--	--	14	10	0	
16N,10E,30,1444	353518105551301	74-03-22	1530	400PCMB	300	--	25	0	0	
16N,11E,25,13132	353526105440401	74-04-06	1145	3108GRC	--	--	18	200	20	
16N,11E,27,3313	353457105461101	74-03-20	1630	3108GRC	265	--	22	0	0	
16N,11E,28,2442	353520105461401	74-03-20	1230	3108GRC	877	--	18	10	10	
18N,07E,01,21132	354939106085501	74-04-18	1030	121TSUG	--	--	45	20	0	
18N,07E,01,42243	354908106083401	74-04-18	0940	121TSUG	--	--	43	10	0	

DATE OF SAMPLE	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED POT- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED ORTHO, PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED RESID- DUE AT 180 C (MG/L) (70300)
74-05-21	150	18	17	2.1	456	0	45	32	.8	2.4	.03	512
74-03-26	220	66	110	2.9	355	0	700	60	.9	.34	.04	1450
74-03-26	90	18	24	1.6	282	0	100	10	.9	.23	.03	418
74-05-06	67	15	67	5.0	328	0	63	27	.8	.03	.02	426
74-03-21	82	16	20	3.9	268	0	40	37	1.1	2.4	.08	379
74-03-21	95	18	56	1.8	303	0	100	52	.4	.45	.03	505
74-04-16	26	2.8	6.1	.8	100	0	3.1	2.0	.2	.37	.02	108
74-04-11	57	17	30	2.4	234	0	47	19	1.3	3.1	.03	331
74-03-22	42	15	10	1.4	125	0	47	21	.4	2.2	.04	243
74-03-22	77	14	17	3.2	251	0	39	20	1.3	4.0	.06	339
74-04-06	23	5.1	84	1.6	262	0	33	4.9	.8	.03	.01	298
74-03-20	150	57	74	4.2	532	0	140	110	.3	13	.05	899
74-03-20	55	14	75	2.3	308	0	81	14	.4	.16	.03	413
74-04-18	46	6.5	92	5.1	378	0	25	4.5	.4	1.4	.04	405
74-04-18	50	6.6	77	4.6	350	0	22	4.7	.5	1.3	.03	378

DATE OF SAMPLE	DIS- SOLVED SOLIDS (SUM OF CONSTIT- UENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH	TEMPER- ATURE (DEG C) (00010)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
74-05-21	515	450	75	.4	873	7.0	15.5	1.1	50
74-03-26	1360	820	530	1.7	1830	7.3	15.5	--	140
74-03-26	398	300	68	.6	647	7.3	13.5	--	50
74-05-06	420	230	0	1.9	704	7.5	12.5	3.8	180
74-03-21	365	270	51	.5	615	7.4	14.5	--	80
74-03-21	489	310	63	1.4	835	7.5	11.5	--	60
74-04-16	112	76	0	.3	179	8.1	14.5	6.4	9
74-04-11	341	210	20	.9	528	7.7	13.0	--	80
74-03-22	222	170	64	.3	383	7.1	7.0	--	20
74-03-22	338	250	44	.5	555	7.5	13.5	--	40
74-04-06	300	78	0	4.1	475	8.0	12.0	--	120
74-03-20	878	610	170	1.3	1410	7.3	11.5	--	230
74-03-20	413	200	0	2.3	665	7.5	14.5	--	100
74-04-18	417	140	0	3.4	625	7.2	23.5	3.4	110
74-04-18	387	150	0	2.7	584	7.2	23.5	2.0	90

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

SANTA FE COUNTY--Continued

LOCAL IDENT- 1- FIELD	STATION	NUMBER	DATE OF SAMPLE	TIME	GEO- LOGIC UNIT	TOTAL DEPTH OF HOLE (FT. BELOW LSD) (72001)	TOTAL DEPTH OF WELL (FT) (72008)	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
18N,09E,10,32444	354805105582501	74-06-07	1430	110AVMB	--	--	20	50	0	
18N,09E,25,24211	354555105554901	74-04-11	1045	121TSUQ	--	--	27	120	0	
19N,08E,05,34423	355404106070001	74-06-03	1515	110AVMB	--	--	21	30	0	
19N,09E,08,133148	355335106010102	74-06-12	1045	121TSUQ	--	--	29	30	20	
19N,09E,14,44131	355222105570201	74-04-09	1515	112ANCH	--	--	22	30	0	
20N,08E,01,4232	355931106021701	74-05-31	1115	121TSUQ	--	--	26	20	0	
20N,09E,04,41212	355935105591501	74-04-30	1200	121TSUQ	--	--	52	20	0	
20N,10E,05,12211	360006105541101	74-04-13	1515	110AVMB	--	--	27	20	0	
20N,10E,17,44433	355727105534001	74-04-13	1415	400PCMB	--	--	17	70	0	

DATE OF SAMPLE	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L) (00631)	DIS- SOLVED URTHO, PHOS- PHORUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L) (70300)
74-06-07	87	8.7	14	2.4	294	0	18	15	.3	.05	.04	296
74-04-11	77	14	18	1.9	274	0	28	13	.5	4.3	.00	337
74-06-03	53	4.3	28	2.8	216	0	22	6.9	.3	.21	.00	244
74-06-12	41	8.6	120	7.3	236	0	180	22	.7	.18	.02	523
74-04-09	34	1.5	44	.9	190	0	14	4.4	1.0	.23	.02	186
74-05-31	48	5.1	33	4.0	219	0	20	5.2	1.3	.38	.04	245
74-04-30	24	2.0	110	8.6	206	0	90	41	1.0	1.8	.03	472
74-04-13	76	3.8	23	2.4	272	0	15	8.3	1.6	.66	.02	294
74-04-13	22	1.5	2.8	.9	62	0	10	2.6	.2	.03	.04	100

DATE OF SAMPLE	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SURP- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	TOTAL ORGANIC CARBON (C) (MG/L) (00680)	DIS- SOLVED BORON (B) (UG/L) (01020)
74-06-07	311	250	12	.4	536	7.4	12.0	1.7	20
74-04-11	334	250	25	.5	542	7.7	13.0	--	50
74-06-03	246	150	0	1.0	407	7.7	11.0	2.6	50
74-06-12	526	140	0	4.4	794	8.2	18.5	3.4	60
74-04-09	217	91	0	2.0	341	7.8	13.5	--	80
74-05-31	252	140	0	1.2	406	7.8	16.0	1.7	60
74-04-30	439	68	0	5.8	672	8.0	14.5	4.4	150
74-04-13	294	210	0	.7	475	7.4	8.5	--	50
74-04-13	88	61	10	.2	133	7.2	12.5	--	20

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

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SANTA FE COUNTY--Continued

LOCAL IDENT- I- FIR	STATION	NUMBER	DATE OF SAMPLE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L) (01000)	DIS- SOLVED BARIUM (BA) (UG/L) (01005)	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED CAD- MIUM (CU) (UG/L) (01025)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L) (01032)	DIS- SOLVED COPPER (CU) (UG/L) (01040)
10N,07E,27,12113	350408106111101	74-05-21	1445	1	300	50	0	0	4	
14N,07E,36,1314	352405106092401	74-03-26	1320	0	0	140	0	0	3	
14N,09E,36,3134	352343105564401	74-03-26	1100	4	100	50	0	0	3	
15N,07E,09,2234	353258106115301	74-05-06	1030	6	400	180	0	0	4	
15N,10E,05,3434	353306105542001	74-03-21	1230	2	0	80	0	0	7	
15N,11E,02,2111	353352105443701	74-03-21	1115	2	0	60	0	0	7	
16N,09E,07,111228	353818106020202	74-04-16	1115	1	0	9	0	0	1	
16N,09E,12,11222	353819105563501	74-04-11	1430	8	0	80	0	0	50	
16N,10E,27,24234	353522105513301	74-03-22	1200	0	0	20	0	0	10	
16N,10E,30,1444	353518105551301	74-03-22	1530	2	0	40	0	0	6	
16N,11E,25,13132	353526105440401	74-04-06	1145	0	0	120	0	0	2	
16N,11E,27,3313	353457105461101	74-03-20	1630	4	200	230	0	0	6	
16N,11E,28,2442	353520105461401	74-03-20	1230	2	100	100	0	0	7	
18N,07E,01,21132	354935106085501	74-04-18	1030	9	0	110	0	0	3	
18N,07E,01,42243	354908106083401	74-04-18	0940	12	0	90	0	0	1	
18N,09E,10,32444	354805105582501	74-06-07	1430	2	400	20	0	0	3	
18N,09E,25,24211	354555105554901	74-04-11	1045	4	0	50	0	0	8	
19N,08E,05,34423	355404106070001	74-06-03	1515	1	200	50	2	0	0	
19N,09E,08,133148	355335106010102	74-06-12	1045	6	100	60	0	0	0	
19N,09E,14,44131	355222105570201	74-04-09	1515	9	0	80	0	0	7	
20N,08E,01,4232	355931106021701	74-05-31	1115	1	0	60	1	0	1	
20N,09E,04,41212	355935105591501	74-04-30	1200	1	100	150	0	0	0	
20N,10E,05,12211	360006105541101	74-04-13	1515	1	0	50	0	0	4	
20N,10E,17,44433	355727105534001	74-04-13	1415	0	0	20	0	0	10	

DATE OF SAMPLE	DIS- SOLVED IRON (FE) (UG/L) (01046)	TOTAL LEAD (PB) (UG/L) (01051)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	TOTAL MERCURY (HG) (UG/L) (01090)	DIS- SOLVED SILVER (AG) (UG/L) (01075)	DIS- SOLVED SELE- NIUM (SE) (UG/L) (01145)	DIS- SOLVED ZINC (ZN) (UG/L) (01090)
74-05-21	20	<100	0	0	0	7	100
74-03-26	240	<100	530	0	0	2	50
74-03-26	10	<100	0	0	0	2	70
74-05-06	30	100	0	0	0	2	20
74-03-21	10	<100	0	0	0	2	270
74-03-21	10	<100	0	0	0	2	60
74-04-16	20	<100	0	0	0	0	40
74-04-11	30	<100	10	1	0	3	630
74-03-22	10	<100	0	0	0	2	90
74-03-22	0	<100	0	0	0	2	60
74-04-06	200	<100	20	0	0	0	10
74-03-20	0	<100	0	0	0	16	40
74-03-20	10	<100	10	0	0	9	20
74-04-18	20	<100	0	0	0	1	20
74-04-18	10	<100	0	0	0	1	20
74-06-07	50	<100	0	0	0	2	40
74-04-11	120	<100	0	1	0	0	60
74-06-03	30	<100	0	0	0	0	20
74-06-12	30	<100	20	0	0	11	340
74-04-09	30	<100	0	0	0	2	30
74-05-31	20	<100	0	0	4	0	30
74-04-30	20	<100	0	0	0	4	100
74-04-13	20	<100	0	0	0	1	10
74-04-13	70	<100	0	0	0	2	20

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

SIERRA COUNTY

LOCAL IDENT- IFIER	STATION	NUMBER	DATE OF SAMPLE	TIME	GEOL- OGIC UNIT	INSTAN- TANEOUS FLOW RATE (GPM) (00059)	TOTAL DEPTH OF WELL (FT) (72008)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT) (72015)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT) (72016)	DEPTH BELOW LAND SURFACE (FT) (72019)
14S,04W,04,212	330740107151101	74-12-04	1135	110AVMB	--	--	--	--	--	--
15S,02W,24,213	325940106595601	74-12-04	1140	110AVMB	--	--	--	--	--	--
15S,03W,17,333	325953107104001	74-07-25	1200	112SNTF	--	160	--	--	--	100
15S,05W,22,122	325946107203301	74-08-01	1200	112SNTF	--	--	--	--	--	123
		74-07-31	1200	112SNTF	--	--	--	--	--	--
15S,05W,27,431	325825107202601	74-05-07	1215	112SNTF	--	--	--	--	--	--
15S,05W,27,442	325816107200201	74-07-11	1200	112SNTF	--	375	--	--	--	--
15S,05W,27,443	325806107201001	74-07-11	1200	112SNTF	--	260	--	--	--	--
15S,05W,29,424	325822107220401	74-05-07	--	112SNTF	--	--	--	--	--	--
16S,01W,10,324	325547106555301	74-07-25	1200	112SNTF	--	300	--	--	--	49,45
16S,05W,20,243	325409107221101	74-05-03	--	112SNTF	--	--	--	--	--	--
16S,05W,22,313	325357107205101	74-05-03	--	112SNTF	--	--	--	--	--	--
16S,05W,22,412	325406107201601	74-07-10	1200	112SNTF	2,0	--	--	--	--	--
16S,05W,26,133	325321107195701	74-07-13	1200	112SNTF	--	>200	--	--	--	118
16S,05W,36,113	325236107185201	74-07-13	1200	112SNTF	--	128	--	--	--	55,00
16S,07W,16,111	325515107351601	74-07-02	1200	112SNTF	--	--	180	250	218	--
17S,04W,29,343	324744107163601	74-12-04	1230	000HLFS	--	--	--	--	--	--
18S,01W,31,321	324156106590601	74-08-02	1200	112SNTF	--	380	--	--	--	--
18S,05W,12,442	324513107180201	74-05-03	--	112SNTF	--	--	--	--	--	--

DATE OF SAMPLE	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MANG- NESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NESE (Mg) (MG/L) (00925)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLOR- IDE (CL) (MG/L) (00940)	DIS- SOLVED FLUOR- IDE (F) (MG/L) (00950)
74-12-04	--	--	--	--	--	740	--	213	0	--	1400	--
74-12-04	4,1	--	--	--	--	--	--	--	--	--	--	--
74-07-25	18	--	--	64	27	93	1,3	270	--	180	31	3,0
74-08-01	24	--	--	50	35	19	3,0	319	--	19	3,1	4
74-07-31	36	--	--	89	12	170	9,6	140	--	49	330	9
74-05-07	33	0	--	110	13	180	11	117	0	61	420	5
74-07-11	31	--	--	85	8,1	200	9,1	89	--	48	380	7
74-07-11	30	50	--	38	4,9	80	6,5	141	--	25	120	7
74-05-07	33	0	--	43	5,8	46	3,1	242	0	13	16	4
74-07-25	63	--	--	76	50	810	8,8	333	--	1400	290	12
74-05-03	--	--	--	46	5,3	--	--	194	0	29	4,5	--
74-05-03	34	20	--	39	4,0	34	2,1	181	0	33	5,1	6
74-07-10	31	80	10	29	2,5	47	3,2	174	--	32	6,8	1,0
74-07-13	32	20	--	35	2,0	38	2,7	170	--	39	4,9	7
74-07-13	35	--	--	200	19	66	5,0	181	--	400	96	5
74-07-02	34	30	40	79	7,2	28	1,5	259	--	57	6,7	4
74-12-04	33	10	0	45	15	300	18	--	0	290	170	7,5
74-08-02	69	--	--	170	37	250	27	134	--	860	100	9
74-05-03	36	10	--	96	12	70	2,3	210	0	180	14	1,2

DATE OF SAMPLE	DIS- SOLVED NITRATE PLUS NITRITE (BR) (MG/L) (71870)	DIS- SOLVED ORTH- PHOS- (P) (MG/L) (00631)	DIS- SOLVED SOLIDS (SUM OF CUNSTI- TUENTS) (MG/L) (70301)	HARD- NESS (CA,MG) (MG/L) (00900)	NON- CAR- BONATE HARD- NESS (MG/L) (00902)	SODIUM AD- SORP- TION RATIO (MG/L) (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MMUS) (00095)	PH	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
74-12-04	1,9	--	--	--	--	--	4500	6,8	40,0	300
74-12-04	--	--	--	--	--	--	--	--	40,0	--
74-07-25	--	75	--	554	270	50	887	--	--	--
74-08-01	--	6,3	--	339	270	7	571	--	--	--
74-07-31	--	74	--	769	270	160	1480	--	25,0	--
74-05-07	--	52	--	889	330	230	4,3	1560	8,0	120
74-07-11	--	58	--	808	250	170	5,6	1550	--	24,0
74-07-11	--	44	--	377	120	0	3,2	703	--	22,0
74-05-07	--	08	--	280	130	0	1,7	442	8,2	60
74-07-25	--	5,1	--	2900	400	120	18	4290	--	--
74-05-03	--	--	--	140	0	--	384	8,1	24,0	--
74-05-03	--	29	--	242	110	0	1,4	364	8,1	22,5
74-07-10	--	39	04	240	83	0	2,3	371	--	24,0
74-07-13	--	23	--	239	96	0	1,7	358	--	23,0
74-07-13	--	5,1	--	933	580	430	1,2	1360	--	20,5
74-07-02	--	85	04	345	230	14	8	538	--	18,5
74-12-04	5	11	01	--	170	--	9,9	1660	7,2	34,0
74-08-02	--	2,8	--	1590	580	470	4,5	2230	--	25,0
74-05-03	--	15	--	582	290	120	1,8	870	7,4	18,0

LOCAL IDENT- I- FIER	STATION	NUMBER	DATE OF SAMPLE	TIME	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LITHIUM (LI) (UG/L) (01150)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)
14S,04W,04,212	330740107151101	74-12-04	1135	300	--	1100	--	
17S,04W,29,343	324744107163601	74-12-04	1230	330	10	310	0	

QUALITY OF GROUND WATER DATA FOR NEW MEXICO

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SOCORRO COUNTY

LOCAL IDENT- I- FIER	STATION	NUMBER	DATE OF SAMPLE	TIME	GEU- LOGIC UNIT	DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	BICAR- BONATE (HCO3) (MG/L) (00440)	DIS- SOLVED CHL- RIDE (CL) (MG/L) (00940)	DIS- SOLVED HRCMIDE (HR) (MG/L) (71870)
038,01W,16,523	340248106570101		74-12-04 74-12-04	0915 0920	000EXRV 000EXRV	-- 2.8	57 --	157 --	16 --	.5 --

DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
74-12-04	360	7.1	31.5	90
74-12-04	--	--	31.5	--

LOCAL IDENT- I- FIER	STATION	NUMBER	DATE OF SAMPLE	TIME	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)
038,01W,16,323	340248106570101		74-12-04	0915	90	60

TAOS COUNTY

					DIS- SOLVED SILICA (SI02) (MG/L) (00955)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED MAN- GANESE (MN) (UG/L) (01056)	DIS- SOLVED CAL- CIUM (CA) (MG/L) (00915)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L) (00925)			
LOCAL IDENT- I- FIER	STATION	NUMBER	DATE OF SAMPLE	TIME	GEU- LOGIC UNIT							
MANBY HOT SPRING NM	363030105432501		74-12-03	1320	000EXRV	58	40	0	27			
PONCE DE LEON SPRING,NM	361925105362001		74-12-03	1640	400PCMB	54	20	0	11			
29N,13E,23,42	364300105310001		74-05-11	0845	400PCMB	6.7	49000	3200	48			
			74-05-23	1000	400PCMB	12	20	70	30			
			74-06-06	0900	400PCMB	12	370	0	31			
DATE OF SAMPLE	DIS- SOLVED SODIUM (NA) (MG/L) (00930)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L) (00935)	BICAR- BONATE (HCO3) (MG/L) (00440)	CAR- BONATE (CO3) (MG/L) (00445)	DIS- SOLVED FIDE (S) (MG/L) (00746)	DIS- SOLVED SULFATE (SO4) (MG/L) (00945)	DIS- SOLVED CHLO- RIDE (CL) (MG/L) (00940)	DIS- SOLVED FLUO- RIDE (F) (MG/L) (00950)	DIS- SOLVED NITRATE (N) (MG/L) (00631)	DIS- SOLVED NITRITE PLUS PHOS- PHURUS (P) (MG/L) (00671)	DIS- SOLVED ORTH- PHOS- PHURUS (P) (MG/L) (00671)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L) (70301)
74-12-03	130	9.2	202	0	--	130	56	3.8	.5	.34	.03	522
74-12-03	150	4.6	79	0	--	120	92	18	.7	.00	.01	491
74-05-11	7.2	2.4	101	0	--	47	4.2	.6	--	.03	.00	225
74-05-23	6.0	.9	68	0	--	53	2.5	.4	--	.13	.03	144
74-06-06	4.8	.9	--	0	--	51	.6	.5	--	.03	.00	224

DATE OF SAMPLE	HARD- NESS (CA,MG) (00900)	HARD- NESS (MG/L) (00902)	SODIUM AD- TION RATIO (00931)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS) (00095)	PH (UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	DIS- SOLVED BORON (B) (UG/L) (01020)
74-12-03	91	0	5.9	794	6.9	34.0	270
74-12-03	32	0	11	786	7.8	32.0	500
74-05-11	150	65	.3	355	5.8	--	--
74-05-23	97	41	.3	229	7.9	--	--
74-06-06	99	0	.2	--	--	--	--

LOCAL IDENT- I- FIER	STATION	NUMBER	DATE OF SAMPLE	TIME	DIS- SOLVED BORON (B) (UG/L) (01020)	DIS- SOLVED IRON (FE) (UG/L) (01046)	DIS- SOLVED LITHIUM (LI) (UG/L) (01130)	DIS- SOLVED MANG- NESE (MANG) (UG/L) (01056)	DIS- SOLVED DENUM (MG) (UG/L) (01060)
MANBY HOT SPRING NM	363030105432501		74-12-03	1320	270	40	290	0	--
PONCE DE LEON SPRING,NM	361925105362001		74-12-03	1640	500	20	250	0	--
29N,13E,23,42	364300105310001		74-05-11	0845	--	49000	--	3200	1
			74-05-23	1000	--	20	--	70	2
			74-06-06	0900	--	370	--	0	1

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