

Report

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Progress Report

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*Surface Water Data at
Los Alamos National Laboratory:
1995 Water Year*

Los Alamos
NATIONAL LABORATORY

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DEFINITION OF TERMS

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover one acre to a depth of one foot and is equivalent to 43,560 cubic feet or 325,851 gallons or 1,233.49 cubic meters.

Cfs-day is the volume of water represented by the flow of one cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,445 cubic meters.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second per square mile [(ft³/s)/mi²] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (ft³/s, cfs) is the rate of discharge representing a volume of one cubic foot passing a given point during one second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

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

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

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide, from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

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

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

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called *Sea Level Datum of 1929* or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the

Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Water year in Geological Survey reports dealing with surface water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1980, is called the "1980 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

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

SURFACE WATER DATA AT LOS ALAMOS NATIONAL LABORATORY: 1995 WATER YEAR

D. A. Shaull, M. R. Alexander, and R. P. Reynolds

ABSTRACT

The principle investigators collected and computed surface water discharge data from 15 stream-gaging stations that cover most of Los Alamos National Laboratory. The United States Department of Interior Geological Survey, Water Resources Division, operates two of the stations under a subcontract; these are identified in the station manuscripts. Included in this report are data from one seepage run conducted in Los Alamos Canyon during the 1995 water year.

INTRODUCTION

This first annual water data report from Los Alamos National Laboratory (LANL, Laboratory) contains flow data from 15 stream-gaging stations that cover most of the Laboratory's property. We placed particular emphasis on the Laboratory's downstream boundary, which is approximated by the route taken by New Mexico State Highway 4. The upstream boundary is approximated by New Mexico State Highway 501. Some of the gaging stations are within Laboratory boundaries.

The Water Quality and Hydrology Group (ESH-18) developed and installed the stream-gaging network; the US Department of Interior, Geological Survey, Water Resources Division (USGS-WRD) did some of the contract work. USGS-WRD designed and installed the necessary data collection structures. Construction took place in 1993 and 1994, and USGS-WRD operated the network until January 1, 1995, when ESH-18 assumed operational responsibility. Groups other than ESH-18 also conduct site-specific earth science research using data from these stations.

STATION IDENTIFICATION NUMBERS

USGS-WRD assigns a unique identification number to each stream-gaging station it establishes. All sites numbered since 1950 are part of the downstream order system. The downstream order system increases station numbers in the downstream direction along main streams, and in the case of this report, their respective mouths to the Rio Grande.

DATA COLLECTION AND COMPUTATION

A complete record-gaging station gathers records of stage and discharge measurements from streams or canals. In addition to these stage and discharge measurements, we directly observe factors affecting the stage/discharge relation, consult weather records, and use other information that supplements base data in determining daily flow. Direct readings on a nonrecording gage or from the data logger provide continuous records of stage. We measure discharge with current meters, using methods adapted by the Geological Survey as a result of experience accumulated since 1880. Standard textbooks describe these methods as do *Water-Supply Paper 2175* and the *US Geological Survey Technique of Water Resources Investigations*, Book 3, Chapter A6.

We use stage/discharge relation curves to prepare rating tables that give the discharge for any stage measured at a stream-gaging station. When necessary to define discharge extremes outside the range of current meter measurements, we extend the curves using

- logarithmic plotting,
- velocity area studies,
- results of indirect measurements of peak discharge, such as slope area or contracted opening measurements and computations of flow over dams or weirs, or
- step backwater techniques.

Daily mean stages (gage heights) are applied to the stage-discharge curves or tables to compute daily mean discharges. If the stage/discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method. In the shifting-control method, correction factors based on individual discharge measurements and notes by personnel taking the measurements are applied to the gage heights before discharges are determined from the curves or tables.

The shifting-control method is also used if the stage/discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control. At some northern stream-gaging stations, the stage/discharge relation is affected by ice in the winter and it becomes impossible to compute discharge in the usual manner. Discharge for period of ice effect is computed on the basis of gage height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes of observations, and comparable discharge records for other stations in the same or nearby basins for comparable periods of time.

For some gaging stations, periods occur when no gage height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, etc. For such periods, the daily discharges are estimated on the basis of recorded range-in-stage, prior and subsequent records, discharge measurements, weather records, and record comparison made against other stations in the same or nearby basins. Likewise, daily contents may be estimated from operator logs, prior and subsequent records, inflow-outflow studies, and other information.

ACCURACY OF RECORDS

Two factors determine the accuracy of streamflow records:

- stability of the stage-discharge relation, or if the control is unstable, the frequency of discharge measurements; and
- accuracy of measurements or stage, accuracy of discharge measurements, and interpretations of records.

Accuracy attributed to records is noted under "Remarks."

- Excellent—95% of daily discharges are within 5% of true value;
- Good—95% of daily discharges are within 10% of true value;
- Fair—95% of daily discharges are within 15% of true value; and
- Poor—records do not meet the criteria mentioned.

Differences in accuracy may be attributed to different parts of a given record.

The number of significant figures used to report daily mean discharges is based solely on the magnitude of the discharge value:

If—the value (cfs) is	Then—its reported to
less than 1 cfs	nearest hundredth
1–10 cfs	nearest tenth
10–1000 cfs	whole number
above 1000 cfs	three significant figures

DATA PRESENTATION

The records published in this report are for each gaging station and comprise two parts:

- Station manuscript description with photo and
- Data table for the water year (October 1, 1994 to September 30, 1995).

The station manuscript provides data under various headings: station location, period of record, average discharge, historical extremes, record accuracy, and other points pertinent to station operation and regulation. Each continuous record of discharge includes the following categories of descriptions.

Location. The most accurate and available maps provide location information. The location of the gage with respect to the vicinity's cultural and physical features is given as well as a name that makes reference to place. For a few stations, the US Army Corps of Engineers or the Water Resources Council (*River Mileage Measurement*, Bulletin 14, rev. October 1968) provided river mileage. We define left and right banks from the perspective of facing downstream.

Drainage area. The most accurate and available maps provide drainage area measurements. The accuracy of drainage area measurements varies depending on the type of map available for this purpose.

Period of record. The period of record is the time during which published records exist for a station or its equivalent station. An equivalent station is one that was in operation at a time that the present station was not and was located so that records from it can reasonably be considered equivalent with records from the present station.

Gage. This section describes the type of gage in current use. The datum of the current gage referred to in the *National Geodetic Vertical Datum* of 1929 (see glossary) and a condensed history of the types, locations, and datums of previous gages are given under this heading.

Remarks. The date in the station description for water discharge records identifies all periods of estimated daily discharge records. The text also presents information relative to the accuracy of the records, special methods of computation, conditions that affect natural flow at the station, and other pertinent information.

Extremes for period of record. Extremes may include maximum and minimum stages and maximum and minimum discharges or content. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest stage gage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

Extremes outside period of record. This section contains information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may have been obtained from other agencies, old data files, newspapers, or local citizens.

Extremes for current year. Extremes given here are similar to those for the period of record. The time for occurrence of peaks is expressed in 24-hour local standard time. For example, 12:30 A.M. is 0030 and 1:30 P.M. is 1330. The minimum for the current water year appears in this section.

DATA TABLE OF DAILY MEAN VALUES

The daily table of discharge records for stream gaging stations gives the mean discharge for each day of the water year. In the monthly summary for the table, the line headed "Total" gives the sum of the daily figures for each month; the line headed "Mean" gives the average flow in cubic feet per second for the month; and the lines headed "Max" and "Min" give the maximum and minimum daily mean discharges for each month and in acre feet, respectively, in the line headed "AC-FT."

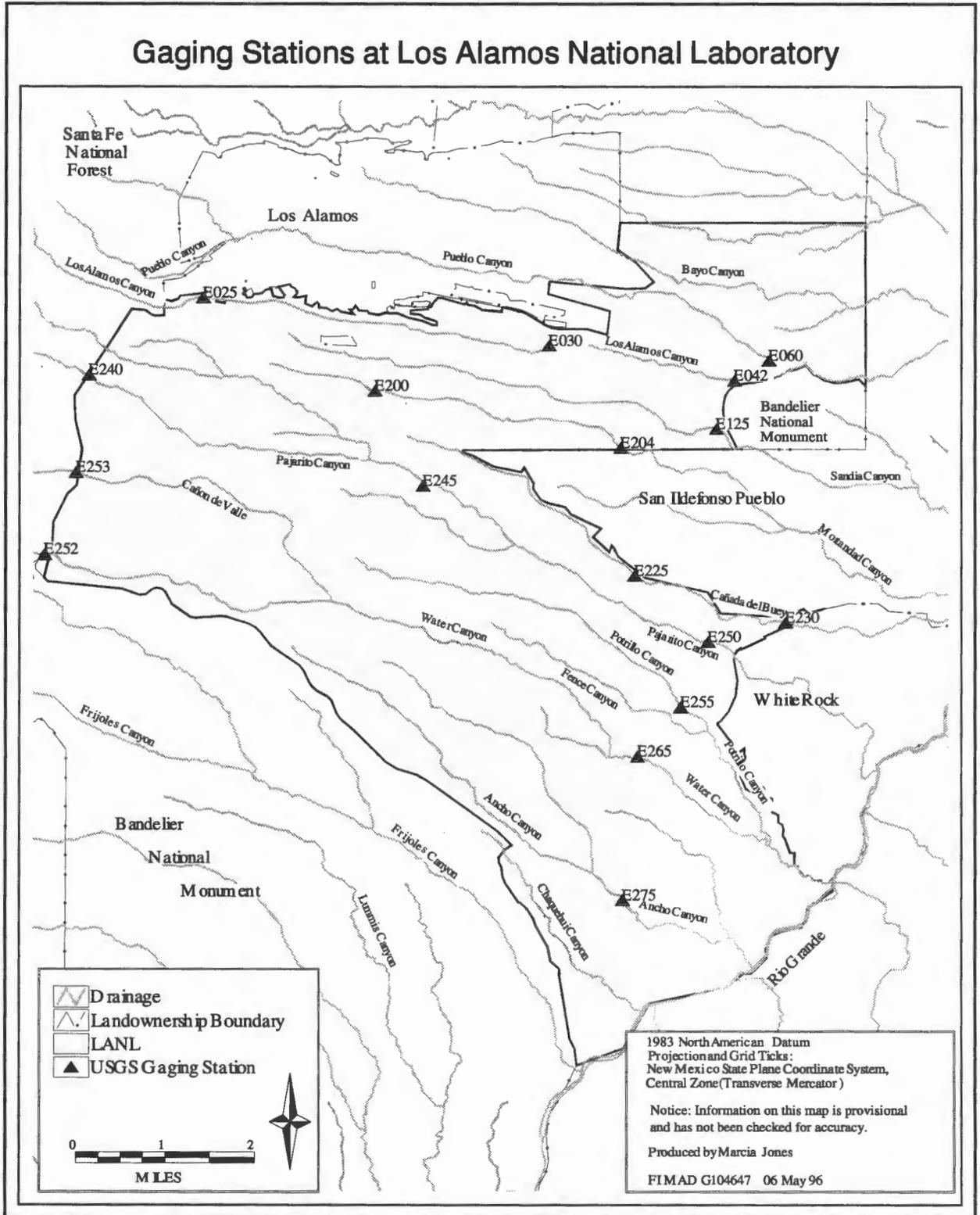
REFERENCES

Water-Supply Paper 2175 and the US Geological Survey Technique of Water Resources Investigations, Book 3, Chapter A6.

US Army Corps of Engineers, *River Mileage Measurement*, Bulletin 14, rev. October 1968.

National Geodetic Vertical Datum of 1929.

Gaging Stations at Los Alamos National Laboratory



**Summary of Discharges from Stream Monitoring Stations
at Los Alamos National Laboratory**

Water Year 1995
October 1, 1994–September 30, 1995

Canyon Sites	Days w/ Flow	Total volume of Water		Instantaneous Max		Comments
		AC-FT	Gallons	FT ³ /s	GPM	
E025 Upper Los Alamos	247	465.0	151,520,715	10.0	4,488	
E030 Middle Los Alamos	169	492.0	160,318,692	12.0	5,386	
E042 Lower Los Alamos**	110	328.0	106,879,128	54.0	24,235	USGS operated
E060 Pueblo**	365	874.0	28,481,038	6.3	2,621	USGS operated
E125 Sandia**	6	5.0	1,629,255	13.0	5,834	
E204 Lower Mortandad**	0	0.0	–	0.0	–	
E200 Middle Mortandad	83	18.0	5,865,318	9.7	4,353	Record began 5/10/95
E225 Upper Cañada del Buey	1	0.4	130,340	17.0	7,630	
E230 Lower Cañada del Buey**	15	14.0	4,561,914	75.0	33,660	
E240 Upper Pajarito	239	106.0	34,540,206	1.9	853	
E245 Middle Pajarito	211	250.0	81,462,750	24.0	10,771	
E250 Lower Pajarito**	210	30.0	9,775,530	4.6	2,064	
E255 Potrillo	3	3.5	1,140,479	63.0	28,274	
E252 Upper Water	74	9.5	3,095,585	0.21	94	
E253 Cañon de Valle	0					
E265 Lower Water ** ***	2			0.21	9,425	Gage rating to be established
E275 Ancho	5					Gage rating to be established

USGS1.3/18/96

** Station at downstream Laboratory boundary

*** Daily values table not published this year

STATION MANUSCRIPTS

08313025 LOS ALAMOS CANYON AT LOS ALAMOS, NM

LOCATION. Lat 35° 52'48", long 106° 19'42", in SE 1/4 SE 1/4 sec. 17, T. 19 N., R. 6 E., Los Alamos County, on right bank 1.5 mi downstream from Los Alamos Reservoir, and 0.4 mi upstream from "Rainbow" bridge on Diamond Drive over Los Alamos Canyon.

DRAINAGE AREA. 7.12 mi².

PERIOD OF RECORD. October 1, 1993 through September 30, 1995.

GAGE. Data logger with cellular telemetry and 2-ft Parshall Flume. Elevation of gage is 7,220 ft above *National Geodetic Vertical Datum of 1929* from topographic map.

REMARKS. Water discharge records good. Flow partially controlled by Los Alamos Reservoir 1.5 mi upstream.

EXTREMES FOR PERIOD OF RECORD. Maximum discharge 10 cfs, May 4, 1995; gage height 1.26 ft. No flow at times.

EXTREMES FOR CURRENT WATER YEAR. Maximum discharge 10 cfs, at 1035 hrs, May 4, 1995; gage height 1.26 ft. No flow at times.



E025-95

08313025 LOS ALAMOS CANYON AT LOS ALAMOS, NM

DAILY DISCHARGE IN CUBIC FEET PER SECOND
WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0.20	1.1	0	0	0.38	0.63	5.4	1.4	0	0.13	0.37
2	0	0.20	1.1	0	0	0.32	0.58	5.3	1.3	0	0.13	0.31
3	0	0.26	1.1	0	0	0.41	0.54	6.2	1.2	0	0.13	0.24
4	0	0.24	1.1	0	0	0.49	0.51	5.8	1.1	0	0.13	0.18
5	0	0.22	0.91	0	0	0.55	0.47	4.3	0.97	0	0.11	0.12
6	0	0.23	0.07	0	0	1.2	0.48	4.2	0.84	0	0.10	0.17
7	0	0.22	0.01	0	0	1.6	0.55	3.8	0.75	0	0.10	0.13
8	0	0.23	0.03	0	0	1.6	0.66	3.4	0.66	0	0.10	0.15
9	0	0.20	0.08	0	0	1.3	0.91	2.8	0.59	0	0.10	0.28
10	0	0.20	0	0	0	1.1	1.1	2.6	0.57	0	0.10	0.27
11	0	0.24	0	0	0	0.95	0.97	2.7	0.50	0	0.16	0.38
12	0	2.5	0	0	0	0.91	0.86	3.2	0.42	0	0.20	0.29
13	0	4.1	0	0	0	0.88	0.77	3.2	0.34	0	0.18	0.20
14	0.01	2.9	0	0	0	0.88	0.82	3.0	0.32	0	0.25	0.23
15	0.05	2.0	0	0	0	0.88	0.98	3.0	0.29	0	0.19	0.19
16	0.23	1.4	0	0	0	0.99	1.0	3.0	0.29	0	0	0.17
17	0.40	0.96	0	0	0	1.2	1.2	3.9	0.9	0	0	0.15
18	0.37	0.73	0	0	0	1.3	1.1	4.1	0.9	0	0	0.09
19	0.33	0.63	0	0	0	1.5	1.1	3.4	0.64	0	0	0.02
20	0.30	0.57	0	0	0	1.7	0.98	2.9	0.58	0.26	0.11	0.01
21	0.28	0.53	0	0	0	2.0	0.94	2.5	0.52	0.26	0.02	0
22	0.27	0.48	0	0	0.01	2.4	1.0	2.2	0.45	0.23	0	0.01
23	0.25	0.44	0	0	0.04	2.2	0.81	1.6	0.40	0.21	0.01	0
24	0.26	0.4	0	0	0.06	1.9	0.77	2.1	0.43	0.20	0.40	0
25	0.26	0.36	0	0	0.14	1.8	0.86	1.8	0.46	0.20	0.63	0
26	0.26	0.33	0	0	0.21	1.5	1.3	1.7	0.43	0.18	0.82	0
27	0.26	0.31	0	0	0.25	1.3	1.7	1.5	0.37	0.17	0.91	0
28	0.23	1.1	0	0	0.32	1.1	2.4	1.4	0.33	0.17	0.68	0
29	0.23	1.1	0	0	—	0.95	3.4	1.8	0.31	0.17	0.72	0.02
30	0.22	1.1	0	0	—	0.80	4.8	1.6	0.39	0.17	0.58	0.01
31	0.20	—	0	0	—	0.70	—	1.5	—	0.14	0.46	—
Total	4.41	24.38	5.5	0	1.03	36.79	34.19	95.9	18.65	2.36	7.45	3.99
Mean	0.14	0.81	0.18	0	0.037	1.19	1.14	3.09	0.62	0.076	0.24	0.13
Max	0.4	4.1	1.1	0	0.32	2.4	4.8	6.2	1.4	0.26	0.91	0.38
Min	0	0.2	0	0	0	0.32	0.47	1.4	0.29	0	0	0
AC-FT	8.7	48	11	0	2	73	68	190	37	4.7	15	7.9

CY 1994: TOTAL *34.29 MEAN 0.37 MAX 4.1 MIN 0 AC-FT 68

WATER YEAR 1995: TOTAL 234.65 MEAN 0.64 MAX 6.2 MIN 0 AC-FT 465

* Incomplete Record

08313030 LOS ALAMOS CANYON BELOW TA-2 NEAR LOS ALAMOS, NM

LOCATION. Lat 35° 52'20", long 106° 15'37", SW1/4, SE1/4 sec. 14, T. 19 N, R.6 E., Los Alamos County, 150 ft upstream from mouth of DP Canyon wash and 2.4 mi upstream from NM State Highway 4.

DRAINAGE AREA. 8.58 mi².

PERIOD OF RECORD. July 1994 to September 30, 1995.

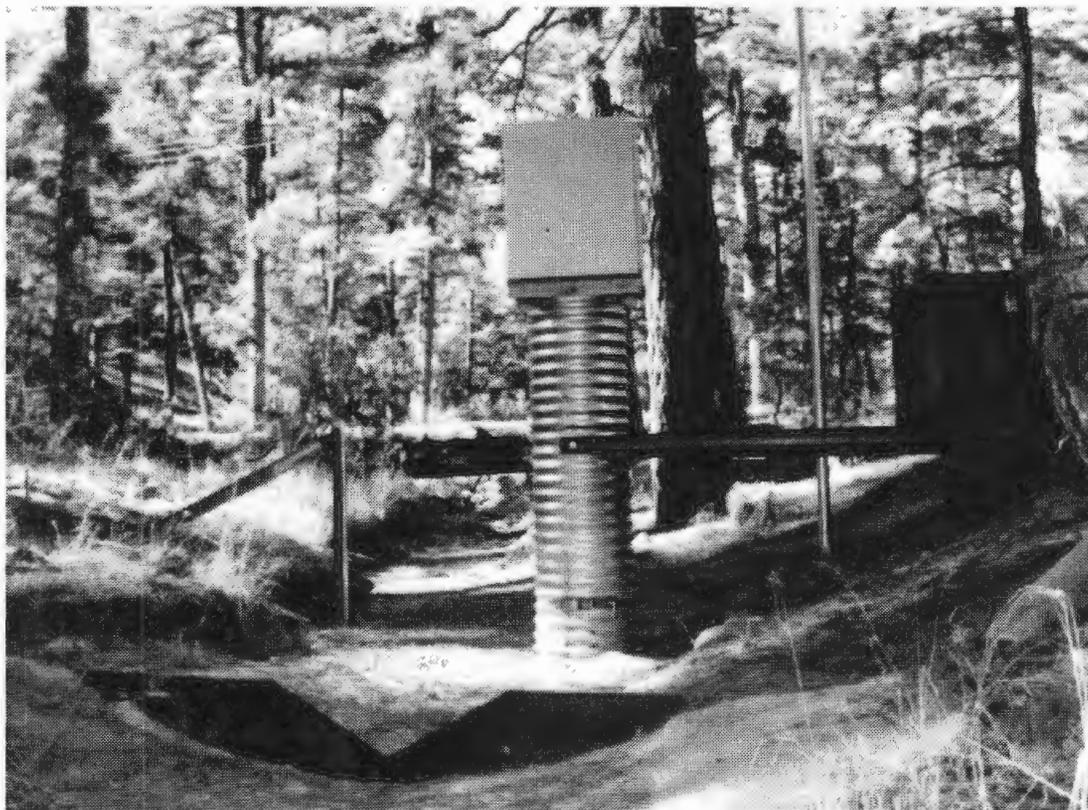
GAGE. Data logger with cellular telemetry and concrete control. Elevation of gage is 6,580 ft above *National Geodetic Vertical Datum of 1929*, from topographic map.

REMARKS. Water discharge records fair. Flow partially regulated by Los Alamos Reservoir about 2.5 mi upstream.

EXTREMES OUTSIDE PERIOD OF RECORD. Flood of July 31, 1968, was 329 cfs from slope area determination. Gage height was established later at 3.71 ft present datum.

EXTREMES FOR PERIOD OF RECORD. Maximum discharge 12 cfs, Oct. 14, 1994, gage height, 1.50 ft. No flow at times.

EXTREMES FOR CURRENT WATER YEAR. Maximum discharge 12 cfs at 2330 hrs Oct. 14, 1994, gage height 1.50 ft. No flow at times



E030-95

8313030 LOS ALAMOS CANYON BELOW TA-2 NEAR LOS ALAMOS, NM

**DAILY DISCHARGE IN CUBIC FEET PER SECOND
WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0.82	0	0	0.01	0.62	5.5	1.4	0.17	0	0.01
2	0	0	0.80	0	0	0.04	0.57	5.7	1.2	0	0	0
3	0	0	0.80	0	0	0.09	0.49	6.2	1.2	0	0	0
4	0	0	0.80	0	0	0.27	0.42	5.7	1.1	0	0	0
5	0	0	0.80	0	0	0.49	0.34	5.6	0.73	0	0.49	0
6	0	0	0.80	0	0	1.3	0.28	5.7	0.12	0	0	0.01
7	0	0	0.50	0	0	1.6	0.38	5.4	0	0	0	0.65
8	0	0	0.20	0	0	1.5	0.51	5.1	0	0	0	0.21
9	0	0	0.08	0	0	1.4	0.64	4.4	0	0	0	0.69
10	0	0	0.04	0	0	1.1	0.57	4.0	0	0	0	0.27
11	0	0	0.01	0	0	0.97	0.86	4.3	0	0	0.33	0.84
12	0	7.1	0	0	0	0.91	0.75	4.7	0	0	0	0.23
13	0	3.5	0	0	0	0.82	0.66	5.0	0	0	0	0.05
14	0.96	3.1	0	0	0	0.77	0.65	5.0	0	0	0	0.01
15	1.9	1.6	0	0	0	0.75	0.73	5.0	0	0	0	0
16	0.72	0.65	0	0	0	0.79	0.82	5.1	0	0.09	0	0
17	1.3	0.40	0	0	0	0.86	0.88	5.7	1.5	0	0	0
18	0	0.33	0	0	0	1.0	0.98	5.7	0.64	1.0	0	0
19	0	0.31	0	0	0	1.3	0.90	5.0	0.36	0.03	0	0
20	0	0.27	0	0	0	1.6	0.83	4.4	0.20	0	0	0
21	0	0.26	0	0	0	1.8	0.34	3.7	0.09	0	0	0
22	0	0.24	0	0	0	2.2	0.74	3.5	0.05	0	0	0
23	0	0.23	0	0	0	2.2	0.66	3.7	0.01	0	0	0
24	0	0.22	0	0	0	2.0	0.70	3.5	0	0	0.16	0
25	0	0.20	0	0	0	1.8	1.2	2.5	0.09	0	0.15	0
26	0	0.20	0	0	0	1.5	1.1	2.1	0.63	0	0.84	0
27	0	0.30	0	0	0	1.3	1.1	1.8	0.33	0	0.91	0
28	0	0.55	0	0	0	1.2	1.7	1.8	0.26	0	0.27	0
29	0	0.80	0	0	---	0.96	2.9	4.4	0.11	0	0.68	0
30	0	0.81	0	0	---	0.78	4.8	2.3	0.23	0	0.37	0
31	0	---	0	0	---	0.66	---	1.6	---	0	0.13	---
Total	4.88	21.07	5.65	0	0	33.97	28.12	134.1	10.25	1.29	4.33	2.97
Mean	0.16	0.7	0.18	0	0	1.1	0.94	4.33	0.34	0.042	0.14	0.099
Max	1.9	7.1	0.82	0	0	2.2	4.8	6.2	1.5	1	0.91	0.84
Min	0	0	0	0	0	0.01	0.28	1.6	0	0	0	0
AC-FT	9.7	42	11	0	0	67	56	266	20	2.6	8.6	5.9

CY 1994: TOTAL* 31.60 MEAN 0.34 MAX 7.1 MIN 0 AC-FT 63

WATER YEAR 1995: TOTAL 246.63 MEAN 0.68 MAX 7.1 MIN 0 AC-FT 489

* Incomplete Record

08313042 LOS ALAMOS CANYON NEAR LOS ALAMOS, NM

LOCATION. Lat 35° 52'01", long 106° 13'21", in SW1/4 sec. 20, T.19 M. R.7 E, Santa Fe County, on right bank, 1/4 mi upstream from NM State Highway 4, 2.7 mi NW of White Rock, NM, 3.9 mi E of Los Alamos, and 13.5 mi SW of Espanola.

DRAINAGE AREA. 9.08 mi².

PERIOD OF RECORD. November 1970 to June 1971, October 1991 to September 30, 1995.

GAGE. Data logger with cellular telemetry and concrete control. Elevation of gage is 6,380 ft above *National Geodetic Vertical Datum of 1929*, from topographic map.

COOPERATION. Station operated by US Geological Survey through the 1995 water year.

REMARKS. Records fair. No diversion above station.

EXTREMES FOR PERIOD OF RECORD. Maximum discharge 137 ft³/s, Aug. 27, 1993, gage height 2.7 ft. No flow at times.

EXTREMES FOR CURRENT WATER YEAR. Maximum discharge 54 ft³/s, 0025 hrs, Oct. 15, 1995, gage height 2.29 ft. No flow at times.



E042-95

08313042 LOS ALAMOS CANYON NEAR LOS ALAMOS, NM

DAILY DISCHARGE IN CUBIC FEET PER SECOND
WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0.05	3.9	0.44	0.01	0	0
2	0	0	0	0	0	0	0	4.1	0.42	0	0	0
3	0	0	0	0	0	0	0	4.5	0.40	0	0	0
4	0	0	0	0	0	0	0	4.4	0.36	0	0	0
5	0	0	0	0	0	0	0	5.3	0.33	0	0	0
6	0	0	0	0	0	0	0	4.2	0.30	0	0	0
7	0	0	0	0	0	0	0	4.1	0.27	0	0	1.1
8	0	0	0	0	0	0	0	4.0	0.20	0	0	0.38
9	0	0	0	0	0	0	0	3.6	0.15	0	0	0.21
10	0	0	0	0	0	0	0.12	3.2	0.13	0	0	0.05
11	0	0	0	0	0	0	0.23	3.6	0.08	0	0	0.54
12	0	9.5	0	0	0	0	0.05	3.9	0.05	0	0	0
13	0	0.05	0	0	0	0	0	4.5	0.01	0	0	0
14	1.3	0.68	0	0	0.10	0	0	4.5	0.03	0	0	0
15	6.9	0.80	0	0	0.28	0	0.02	4.5	0.02	0	0	0
16	0.97	0.44	0	0	0.02	0	0.05	4.7	0.01	0.20	0	0
17	2.1	0.20	0	0	0	0	0.12	5.5	1.1	0	0	0
18	0	1.1	0	0	0	0	0.15	5.7	0.27	2.4	0	0
19	0	0	0	0	0	0	0.15	4.6	0	0.40	0	0
20	0	0	0	0	0	0	0.13	4.1	0	0	0	0
21	0	0	0	0	0	0	0.11	3.4	0	0	0	0
22	0	0	0	0	0	0.42	0.34	3.1	0	0	0	0
23	0	0	0	0	0	0.87	0.29	3.2	0	0	0	0
24	0	0	0	0	0	0.85	0.29	3.1	0	0	0	0
25	0	0	0	0	0	0.58	0.21	2.4	0.06	0	0	0
26	0	0	0	0	0	0.83	0.27	1.8	0.99	0	0.41	0
27	0	0	0	0	0	1.1	0.39	1.6	0.01	0	0.04	0
28	0	0	0	0	0	0.24	0.65	1.3	0.05	0	0	0
29	0	0	0	0	—	0.20	1.1	8.20	0	0	0.31	0
30	0	0	0	0	—	0.12	2.9	0.82	0.06	0	0.07	0
31	0	—	0	0	—	0.09	—	0.45	—	0	0	—
Total	11.27	12.77	0	0	0.4	5.3	7.62	116.27	5.74	3.01	0.83	2.28
Mean	0.36	0.43	0	0	0.014	0.17	0.25	3.75	0.19	0.097	0.027	0.076
Max	6.9	9.5	0	0	0.28	1.1	2.9	8.2	1.1	2.4	0.41	1.1
Min	0	0	0	0	0	0	0	0.45	0	0	0	0
AC-FT	22	25	0	0	0.8	11	15	231	11	6	1.6	4.5

CY 1994: TOTAL* 24.04 MEAN 0.26 MAX 9.5 MIN 0 AC-FT 48

WATER YEAR 1995: TOTAL 165.49 MEAN 0.45 MAX 9.5 MIN 0 AC-FT 328

* Incomplete Record

8313060 PUEBLO CANYON NEAR LOS ALAMOS, NM

LOCATION. Lat 35° 52'13", long 106° 12'56", in NE 1/4 NE 1/4 sec. 20, T. 19 N, R. 7 E. Santa Fe County on right bank at state highway maintenance yard 200 ft. north of NM State Highway 502, and 4.2. mi east of Los Alamos.

DRAINAGE AREA. 6.94 mi².

PERIOD OF RECORD. January 1992 to September 30, 1995.

GAGE. Data logger with cellular telemetry. Elevation of gage is 6,330 ft above *National Geodetic Vertical Datum of 1929*, from topographic map.

COOPERATION. Station operated by US Geological Survey through this water year.

REMARKS. Records fair except for estimated daily discharges, which are poor. No diversion above station. Perennial flow is primarily from effluent.

EXTREMES FOR PERIOD OF RECORD. Maximum discharge 6.3 ft³/s August 26, 1992, and Oct. 15, 1994, maximum gage height 5.97 ft, Oct 15, 1994. No flow partial days at times.

EXTREMES FOR CURRENT WATER YEAR. Maximum discharge 6.3 ft³/s, gage height 5.97 at 0220 hrs Oct. 15. No flow partial days at times.



E060-95

8313060 PUEBLO CANYON NEAR LOS ALAMOS, NM

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.89	0.66	0.84	1.2	1.0	1.4	1.5	0.79	1.3	1.7	2.4	2.2
2	1.1	0.89	0.90	1.3	1.1	1.5	1.6	0.89	0.62	1.5	0.97	1.7
3	1.0	0.95	0.77	1.5	1.1	1.4	1.5	0.84	0.82	1.6	0.84	0.97
4	1.0	1.0	0.85	1.4	1.1	1.5	1.6	0.88	0.58	1.3	1.1	1.4
5	1.4	1.2	0.89	1.2	1.2	1.5	1.3	0.81	0.67	1.1	1.7	1.3
6	1.2	1.3	1.1	1.4	1.2	1.6	1.3	0.92	0.60	0.70	2.1	1.0
7	1.0	0.99	1.3	1.3	1.3	1.5	1.4	0.83	0.70	1.0	1.3	1.9
8	1.4	1.1	1.3	1.0	1.2	1.4	1.5	0.87	0.69	0.81	1.1	2.1
9	1.4	1.1	1.3	1.1	1.1	1.4	1.1	0.77	0.78	1.1	1.3	2.2
10	1.4	1.1	1.2	1.1	1.1	1.1	1.6	0.58	0.58	0.77	1.2	2.3
11	1.1	1.1	1.2	1.0	1.1	1.3	1.6	0.89	0.73	0.96	1.5	1.7
12	0.80	3.1	1.3	1.0	0.97	1.2	1.6	0.73	0.58	0.9	1.4	1.6
13	0.48	1.5	1.2	0.97	1.0	1.4	1.6	0.53	0.65	2.0	1.4	1.5
14	1.2	1.3	1.2	1.0	1.0	1.1	1.3	0.67	0.73	1.2	1.4	1.5
15	1.9	0.98	1.3	1.0	1.1	1.3	1.2	0.53	0.79	1.1	1.9	0.68
16	1.0	0.9	1.2	1.0	1.1	1.5	1.4	0.58	0.81	1.8	1.1	0.89
17	3.1	0.88	1.3	1.0	1.1	1.3	1.4	0.65	1.4	1.6	1.1	1.5
18	1.4	0.87	1.2	1.0	1.2	1.3	1.3	0.83	1.8	2.5	1.7	1.2
19	0.92	0.94	1.2	0.97	1.2	1.2	1.4	0.96	1.6	2.5	1.5	1.4
20	0.94	0.92	1.2	0.8	1.2	1.3	1.3	0.99	1.6	2.2	1.4	1.5
21	0.62	0.92	1.1	0.89	1.3	1.1	1.4	0.73	1.0	1.8	1.5	1.1
22	0.70	0.89	1.0	0.97	1.2	1.4	1.5	0.75	0.89	2.2	1.4	0.76
23	0.76	0.91	1.1	0.97	1.2	1.2	1.5	0.47	0.85	2.4	0.76	1.6
24	0.87	0.86	1.2	0.97	1.2	1.4	1.6	0.67	1.0	1.4	1.5	1.7
25	0.72	0.82	1.1	1.0	1.3	1.3	1.6	0.77	0.84	0.89	1.7	1.9
26	0.91	0.87	1.1	0.97	1.3	1.4	1.6	0.77	1.9	0.76	2.2	0.60
27	0.78	0.87	1.2	0.93	1.4	1.5	1.5	0.72	1.7	0.76	2.5	1.1
28	0.75	0.92	1.2	0.97	1.3	1.4	1.4	0.76	1.6	0.68	2.2	0.49
29	0.97	0.87	1.2	0.97	—	1.4	1.2	1.4	1.9	0.72	2.3	1.4
30	0.99	0.84	1.2	0.97	—	1.5	0.87	1.4	1.6	0.76	2.5	1.5
31	0.83	—	1.3	1.0	—	1.5	—	1.2	—	0.8	2.3	—
Total	33.53	31.55	35.45	32.85	32.57	42.3	42.67	25.18	31.31	41.51	49.27	42.69
Mean	1.08	1.05	1.14	1.06	1.16	1.36	1.42	0.81	1.04	1.34	1.59	1.42
Max	3.1	3.1	1.3	1.5	1.4	1.6	1.6	1.4	1.9	2.5	2.5	2.3
Min	0.48	0.66	0.77	0.8	0.97	1.1	0.87	0.47	0.58	0.68	0.76	0.49
AC-FT	67	63	70	65	65	84	85	50	62	82	98	85

CY 1994: TOTAL* 100.53 MEAN 1.09 MAX 3.1 MIN 0.48 AC-FT 199

WATER YEAR 1995: TOTAL 440.88 MEAN 1.21 MAX 3.1 MIN 0.47 AC-FT 874

* Incomplete Record

8313125 SANDIA CANYON ABOVE HIGHWAY 4 NEAR WHITE ROCK, NM

LOCATION Lat 35° 51'32", long 106° 13'33", SE1/4SW1/4 sec. 20, T. 19 N, R.7 E, Santa Fe County, 0.25 mi N of East Jemez Road and 0.5 mi upstream from NM State Highway 4.

DRAINAGE AREA. 2.52 mi².

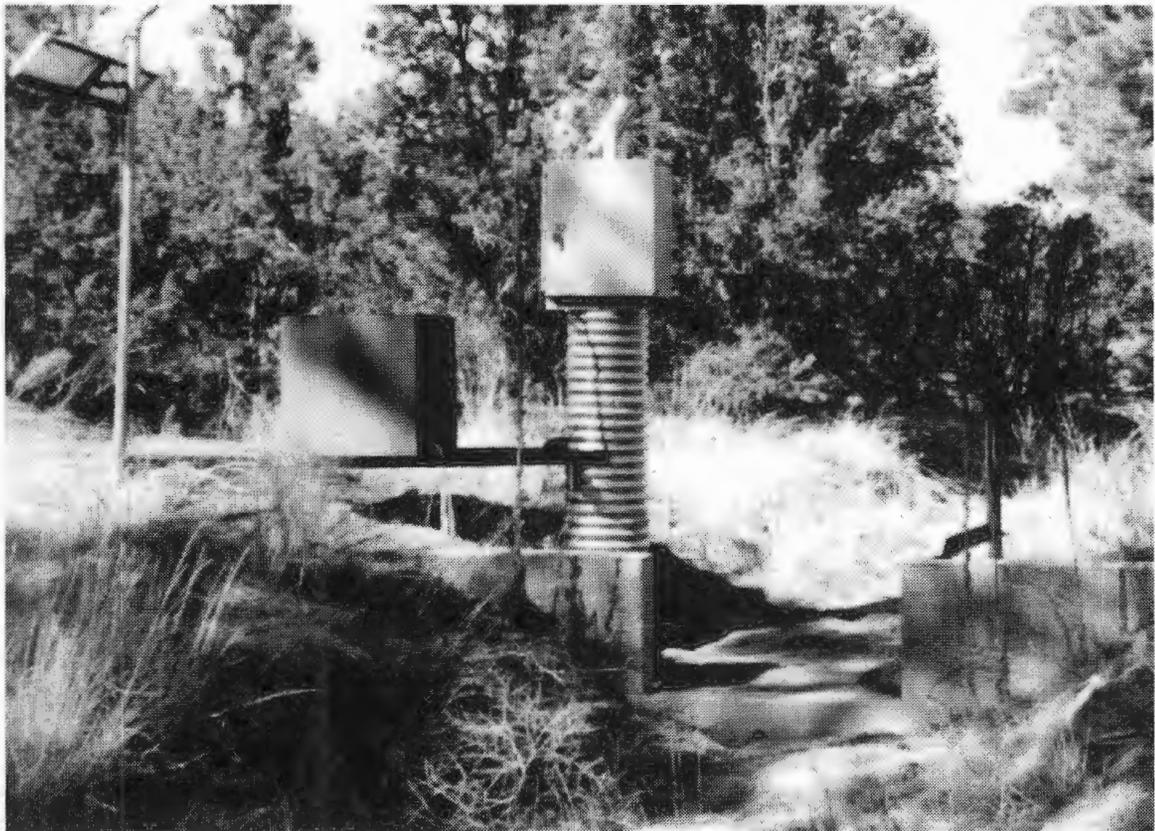
PERIOD OF RECORD. October 1993 to September 30, 1995.

GAGE. Data logger with cellular telemetry and concrete control. Elevation of gage is 6,495 ft. above *National Geodetic Vertical Datum of 1929*, from topographic map.

REMARKS. Water discharge records fair. Flow partially regulated by Los Almos Reservoir about 2.5 miles upstream.

EXTREMES FOR PERIOD OF RECORD. Maximum discharge 13 cfs Sept. 8, 1995, gage height 1.82 ft. No flow most of time.

EXTREMES FOR CURRENT WATER YEAR. Maximum discharge 13 cfs at 1245 hrs Sept. 8, 1995, gage height 1.82 ft. No flow most of time.



E125-95

8313125 SANDIA CANYON ABOVE HIGHWAY 4 NEAR WHITE ROCK, NM

**DAILY DISCHARGE IN CUBIC FEET PER SECOND
WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	1.4
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0.06	0	0	0	0	0	0	0	0	0.05	0
12	0	0.40	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0.60	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	---	0	0	0	0	0	0	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
Total	0	0.46	0	0	0	0	0	0	0	0	0.65	1.4
Mean	0	0.015	0	0	0	0	0	0	0	0	0.021	0.047
Max	0	0.4	0	0	0	0	0	0	0	0	0.6	1.4
Min	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0.9	0	0	0	0	0	0	0	0	1.3	2.8

CY 1994: TOTAL* 0.46 MEAN 0.005 MAX 0.4 MIN 0 AC-FT 0.9

WATER YEAR 1995: TOTAL 2.51 MEAN 0.007 MAX 1.4 MIN 0 AC-FT 5

* Incomplete Record

8313200 MORTANDAD CANYON AT TA-50 NEAR LOS ALAMOS, NM

LOCATION. Lat $35^{\circ}51'55''$, long $106^{\circ}17'42''$, SW 1/4NE 1/2 sec. 22, T. 19 N, R.6 E, Los Alamos County, 0.6 N of Pajarito Road and .25 mi N of LANL TA-50 and 1/4 mi below TA-50 outfall.

DRAINAGE AREA. 0.49 mi².

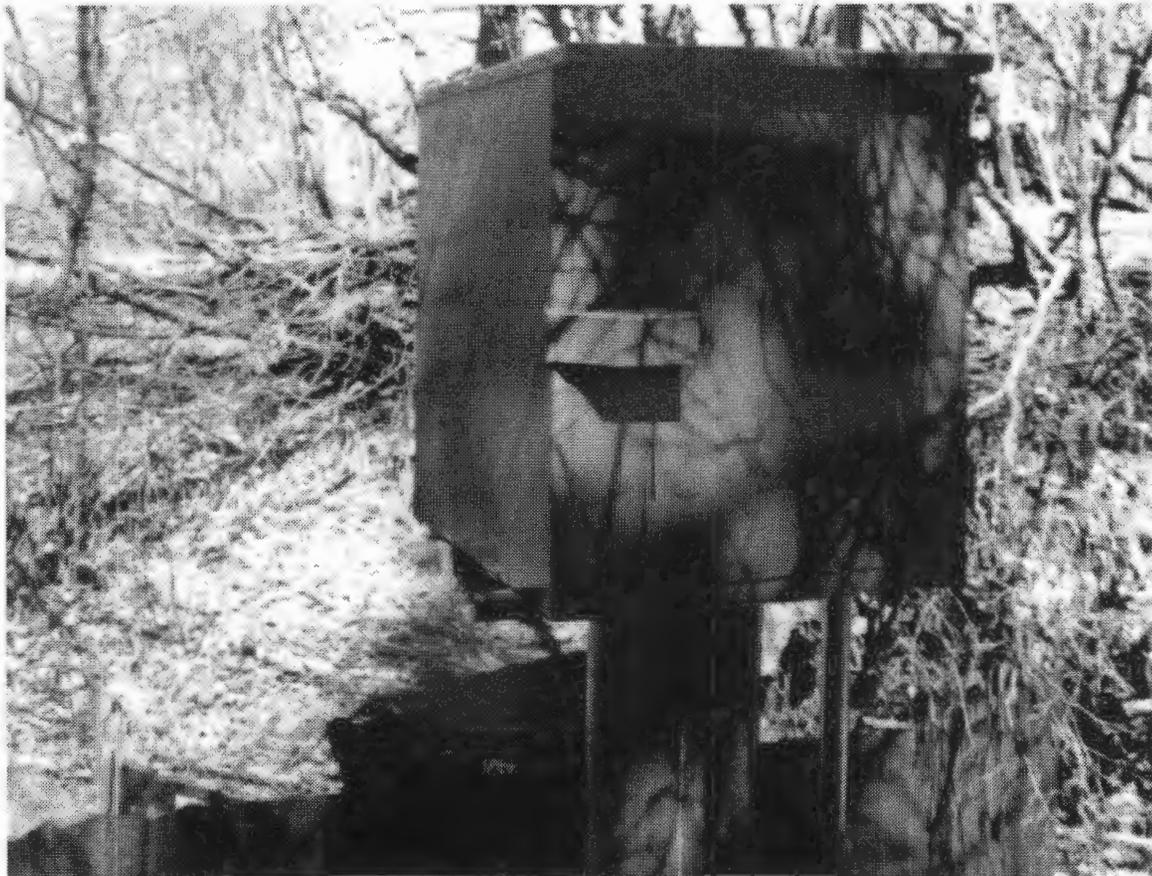
PERIOD OF RECORD. May 10, 1995, to September 30, 1995.

GAGE. Data logger with cellular telemetry and steel "fabricated" Parshall Flume as low-water control. Elevation of gage is 7,040 ft above *National Geodetic Vertical Datum of 1929* from topographic map.

REMARKS. Water discharge records fair. Flow is mostly effluent from LANL TA-50.

EXTREMES OUTSIDE PERIOD OF RECORD. Flow of 34 cfs occurred Aug. 19, 1970, gage height 3.07 ft from old data files of US Geological Survey.

EXTREMES FOR CURRENT WATER YEAR. Maximum discharge 9.7 cfs at 1525 hrs May 29, gage height 1.94 ft. No flow at times.



E200-95

8313200 MORTANDAD CANYON AT TA-50 NEAR LOS ALAMOS, NM

DAILY DISCHARGE IN CUBIC FEET PER SECOND
WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									0	0	0.01	0.01
2									0.04	0	0.01	0
3									0	0.02	0.01	0.01
4									0	0	0.01	0
5									0	0.02	0.31	0.01
6									0.02	0	0	0
7									0.03	0.02	0.01	0.79
8									0	0	0.01	0.01
9									0	0	0	0.09
10								0.14	0.03	0	0	0
11								0	0.02	0	0.03	0.30
12								0.04	0.01	0	0	0.14
13								0	0.05	0	0.05	0.14
14								0	0.04	0	0.02	0.14
15								0	0	0	0.02	0
16								0.04	0.04	0	0.02	0
17								0.03	0.16	0.11	0.04	0
18								0.08	0	0.8	0.02	0.11
19								0	0.05	0	0	0.11
20								0	0.04	0.03	0.08	0
21								0	0.04	0	0.02	0
22								0.07	0.02	0	0	0.07
23								0.04	0.04	0	0.01	0
24								0.03	0	0.01	0.02	0
25								0.04	0	0.01	0.01	0.03
26								0.04	0.36	0.01	0	0.11
27								0	0.03	0.01	0	0.08
28								0.02	0.32	0	0.03	0.15
29					---			2.7	0.05	0	0.02	0.01
30					---			0.29	0	0	0.02	0
31		---			---		---	0.05	---	0.01	0.02	---
Total								3.61	1.39	1.05	0.8	2.31
Mean								0.16	0.046	0.034	0.026	0.077
Max								2.7	0.36	0.8	0.31	0.79
Min								0	0	0	0	0
AC-FT								7.2	2.8	2.1	1.6	4.6

CY 1994: TOTAL* 0.0

WATER YEAR 1995: TOTAL* 9.16 MEAN 0.064 MAX 2.7 MIN 0 AC-FT 18

* Incomplete Record

8313204 MORTANDAD CANYON AT LABORATORY BOUNDARY

LOCATION. Lat 35° 51'22", long 106° 14'42", NW1/4 NW1/4 sec. 30, T. 19, R. 7 E., Santa Fe County, 100 ft upstream from LANL/San Ildefonso Indian Reservation Boundary and 2.8 mi upstream from NM State Highway 4.

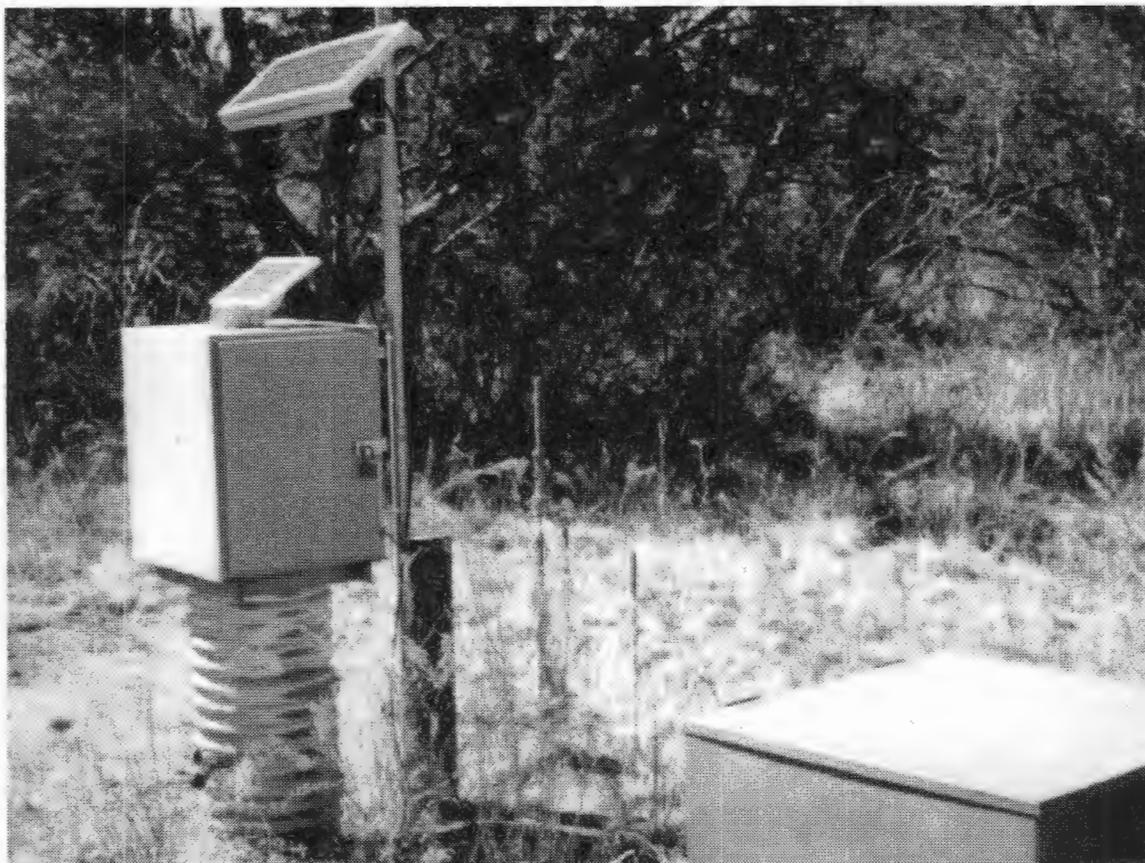
DRAINAGE AREA. 1.67 mi².

PERIOD OF RECORD. October 1, 1993, to September 30, 1995.

GAGE. Data logger with cellular telemetry and concrete control. Elevation of gage is 6,665 ft. above *National Geodetic Vertical Datum of 1929* from topographic map.

EXTREMES FOR PERIOD OF RECORD. No flow for period.

EXTREMES FOR CURRENT WATER YEAR. No flow for year.



E204-95

8313204 MORTANDAD CANYON AT LABORATORY BOUNDARY

**DAILY DISCHARGE IN CUBIC FEET PER SECOND
WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	—	0	0	0	0	0	0	0
30	0	0	0	0	—	0	0	0	0	0	0	0
31	0	—	0	0	—	0	—	0	—	0	0	—
Total	0	0	0	0	0	0	0	0	0	0	0	0
Mean	0	0	0	0	0	0	0	0	0	0	0	0
Max	0	0	0	0	0	0	0	0	0	0	0	0
Min	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	0

**CY 1994: TOTAL* 0 MEAN 0 MAX 0 MIN 0 AC-FT 0
WATER YEAR 1995: TOTAL 0 MEAN 0 MAX 0 MIN 0 AC-FT 0**

* Incomplete Record

08313225 Cañada del Buey above White Rock, NM

LOCATION. Lat 35° 50'07", long 106° 14'29", in Ramon Vigil Grant, Los Alamos County, 0.1 mi south of Santa Fe/Los Alamos County Line and 2.5 mi upstream from NM State Highway 4 in White Rock.

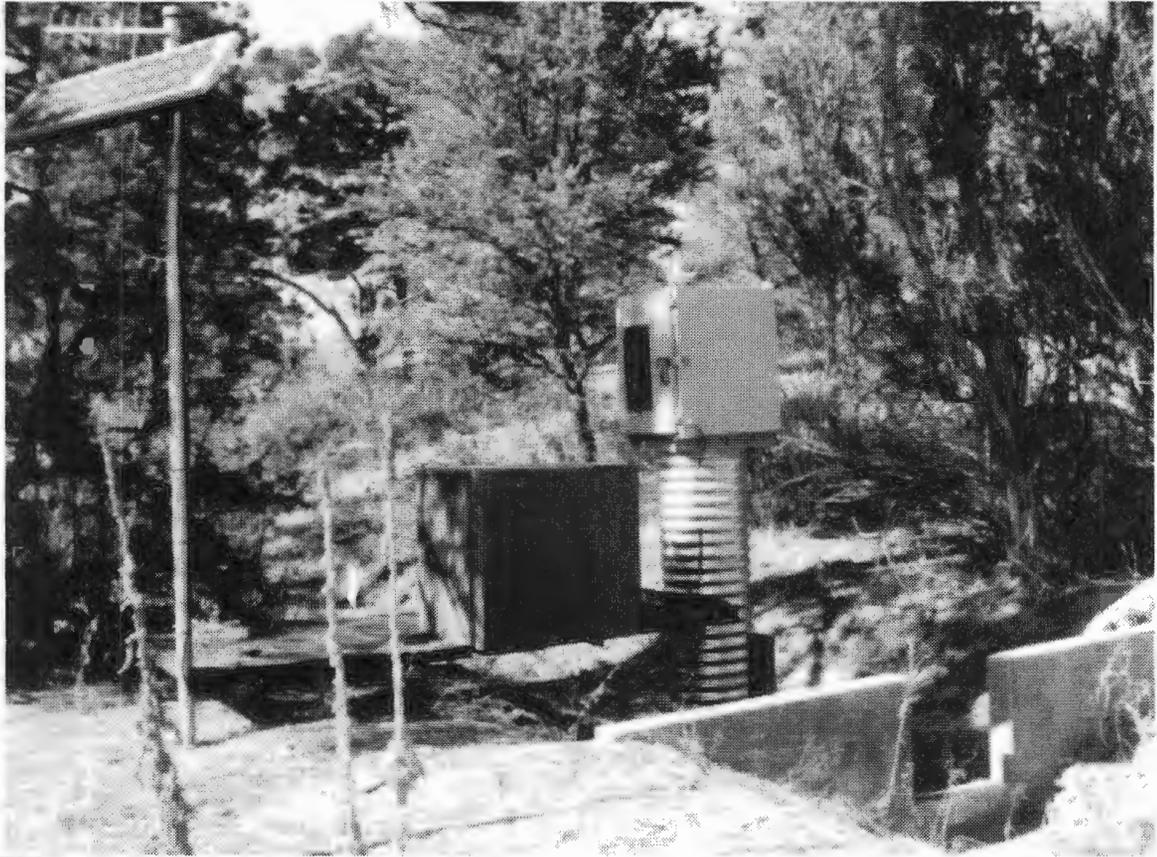
DRAINAGE AREA. 1.58 mi².

PERIOD OF RECORD. October 1993 to September 30, 1995.

GAGE. Data logger with cellular telemetry and concrete control. Elevation of gage is 6,620 ft above *National Geodetical Vertical Datum of 1929* from topographic map.

EXTREMES FOR PERIOD OF RECORD. Maximum discharge 17 cfs Sept. 8, 1995, gage height 2.71 ft. No flow most of time.

EXTREMES FOR CURRENT WATER YEAR. Maximum discharge 17 cfs. at 1315 hrs Sept. 8, 1995, gage height 2.71 ft. No flow most of the time.



E225-95

08313225 Cañada del Buey above White Rock, NM

DAILY DISCHARGE IN CUBIC FEET PER SECOND
WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0.20
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	---	0	0	0	0	0	0	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
Total	0	0	0	0	0	0	0	0	0	0	0	0.2
Mean	0	0	0	0	0	0	0	0	0	0	0	0.007
Max	0	0	0	0	0	0	0	0	0	0	0	0.2
Min	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	0.4

CY 1994: TOTAL* 0.00 MEAN 0 MAX 0 MIN 0 AC-FT 0

WATER YEAR 1995: TOTAL 0.20 MEAN 0.001 MAX 0.2 MIN 0 AC-FT 0.4

* Incomplete Record

8313230 Cañada del Buey at White Rock, NM

LOCATION. Lat 35° 49'39", long 106° 12'40", in Ramon Vigil Grant, Los Alamos County, 250 mi upstream from NM State Highway 4 in White Rock, NM.

DRAINAGE AREA. 2.14 mi².

PERIOD OF RECORD. October 1991 to September 30, 1995.

GAGE. Data logger with cellular telemetry and concrete control. Elevation of gage is 6,415 ft above *National Geodetic Vertical Datum of 1929* from topographic map.

REMARKS. Records fair. No diversions.

EXTREMES FOR PERIOD OF RECORD. Maximum discharge 112 cfs Aug. 14, 1994, gage height 2.40 ft. No flow most of the time.

EXTREMES FOR CURRENT WATER YEAR. Maximum discharge 37 cfs at 1900 hrs Sept. 7, gage height 1.97 ft. No flow most of the time.



E230-95

8313230 Cañada del Buey at White Rock, NM

DAILY DISCHARGE IN CUBIC FEET PER SECOND
WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	1.2
8	0	0	0	0	0	0	0	0	0	0	0	1.3
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0.50	0	0	0	0	0	0	0	0	0.20	0
12	0	0.50	0	0	0	0	0	0	0	0	0.48	0
13	0	0	0	0	0.02	0	0	0	0	0	0.72	0
14	0	0	0	0	0.05	0	0	0	0	0	0.72	0.17
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0.08	0
17	0	0	0	0	0	0	0	0	0	0	0.09	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	---	0	0	0.07	0	0	0.85	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
Total	0	1	0	0	0.07	0	0	0.07	0	0	3.14	2.67
Mean	0	0.033	0	0	0.003	0	0	0.002	0	0	0.1	0.089
Max	0	0.5	0	0	0.05	0	0	0.07	0	0	0.85	1.3
Min	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	2	0	0	0.1	0	0	0.1	0	0	6.2	5.3

CY 1994: TOTAL* 1.00 MEAN 0.011 MAX 0.5 MIN 0 AC-FT 2
WATER YEAR 1995: TOTAL 6.95 MEAN 0.019 MAX 1.3 MIN 0 AC-FT 14

* Incomplete Record

8313240 Pajarito Canyon above Highway 501 near Los Alamos, NM

LOCATION. Lat 35° 52'06", long 106° 21'09", SE 1/4 NW 1/4, sec. 19, T.19 N, R. 6. E, Los Alamos County, in Santa Fe National Forest, 200 ft upstream from NM State Highway 501.

DRAINAGE AREA. 1.90 mi².

PERIOD OF RECORD. October 1993 to September 30, 1995.

GAGE. Data logger with cellular telemetry and Parshall Flume. Elevation of gage is 7,760 ft above *National Geodetic vertical datum of 1929* from topographic map.

REMARKS. Records good.

EXTREMES FOR PERIOD OF RECORD. Maximum discharge 2.4 cfs, June 21, 1994, gage height 0.55 ft. No flow at times.

EXTREMES FOR CURRENT WATER YEAR. Maximum discharge 1.9 cfs at 1915 hrs, Nov. 12 gage height 0.74 ft. No flow at times.



E240-95

8313240 Pajarito Canyon above Highway 501 near Los Alamos, NM

**DAILY DISCHARGE IN CUBIC FEET PER SECOND
WATER YEAR OCTOBER 1994 TO SEPTEMBER 95**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.12	0	0	0	0	0	0.08	0.87	0.49	0.28	0.10	0.10
2	0.14	0	0	0	0	0	0.01	0.81	0.49	0.24	0.09	0.10
3	0.15	0	0	0	0	0	0.01	0.84	0.49	0.23	0.09	0.09
4	0.17	0	0	0	0	0	0	0.83	0.47	0.23	0.09	0.09
5	0.15	0	0	0	0	0.01	0	0.79	0.45	0.23	0.09	0.08
6	0.12	0	0	0	0	0.18	0	0.77	0.44	0.21	0.09	0.08
7	0.14	0	0	0	0	0.22	0.01	0.73	0.43	0.20	0.07	0.09
8	0.15	0	0	0	0	0.05	0.05	0.68	0.42	0.18	0.06	0.10
9	0.12	0	0	0	0	0.01	0.09	0.61	0.41	0.16	0.05	0.09
10	0.09	0	0	0	0	0	0.11	0.57	0.39	0.15	0.04	0.09
11	0.09	0	0	0	0	0	0.09	0.56	0.38	0.16	0.08	0.10
12	0.08	0.91	0	0	0	0	0.07	0.59	0.35	0.15	0.07	0.09
13	0.09	1.3	0	0	0	0	0.07	0.62	0.34	0.15	0.11	0.07
14	0.22	0.57	0	0	0	0	0.10	0.58	0.33	0.15	0.11	0.07
15	0.28	0.34	0	0	0	0	0.14	0.51	0.32	0.15	0.08	0.07
16	0.24	0.22	0	0	0	0	0.16	0.51	0.32	0.17	0.07	0.07
17	0.19	0.18	0	0	0	0.02	0.19	0.51	0.49	0.17	0.06	0.05
18	0.08	0.29	0	0	0	0.08	0.18	0.52	0.38	0.25	0.06	0.04
19	0.04	0.16	0	0	0	0.09	0.17	0.48	0.35	0.19	0.09	0.04
20	0.02	0.20	0	0	0	0.11	0.16	0.45	0.33	0.16	0.08	0.04
21	0.02	0.06	0	0	0	0.11	0.17	0.44	0.32	0.14	0.06	0.03
22	0.01	0.04	0	0	0	0.13	0.10	0.41	0.31	0.13	0.08	0.03
23	0.01	0.02	0	0	0	0.09	0.19	0.41	0.29	0.13	0.08	0.03
24	0.01	0.02	0	0	0	0.06	0.18	0.44	0.27	0.12	0.12	0.03
25	0.01	0.01	0	0	0	0.06	0.20	0.44	0.29	0.12	0.27	0.03
26	0.01	0.01	0	0	0	0.04	0.31	0.44	0.27	0.11	0.25	0.03
27	0	0	0	0	0	0.01	0.59	0.47	0.26	0.11	0.24	0.03
28	0	0	0	0	0	0.01	0.75	0.51	0.27	0.10	0.18	0.04
29	0	0	0	0	—	0	0.86	0.59	0.26	0.10	0.19	0.06
30	0	0	0	0	—	0	0.89	0.54	0.28	0.10	0.13	0.04
31	0	—	0	0	—	0.03	—	0.52	—	0.10	0.11	—
Total	2.75	4.33	0	0	0	1.31	5.93	18.04	10.89	5.07	3.29	1.9
Mean	0.089	0.14	0	0	0	0.042	0.2	0.58	0.36	0.16	0.11	0.063
Max	0.28	1.3	0	0	0	0.22	0.89	0.87	0.49	0.28	0.27	0.1
Min	0	0	0	0	0	0	0	0.41	0.26	0.1	0.04	0.03
AC-FT	5.5	8.6	0	0	0	2.6	12	36	22	10	6.5	3.8

**CY1994: TOTAL* 7.08 MEAN 0.077 MAX 1.3 MIN 0 AC-FT 14
WATER YEAR 1995: TOTAL 53.51 MEAN 0.15 MAX 1.3 MIN 0 AC-FT 106**

*** Incomplete Record**

8313245 Pajarito Canyon above TA-18 near Los Alamos, NM

LOCATION. Lat 35° 50'59", long 106° 17'02", Ramon Vigil Grant, Los Alamos County, 1.5 mi upstream from LANL TA-18 and Three-Mile Canyon and .15 mi SE of Pajarito Road.

DRAINAGE AREA. 7.84 mi².

PERIOD OF RECORD. November 1993 to September 30, 1995.

GAGE. Data logger with cellular telemetry and concrete control. Elevation of gage is 6,865 ft. above *National Geodetic Vertical Datum of 1929* from topographic map.

REMARKS. Record fair.

EXTREMES FOR PERIOD OF RECORD. Maximum discharge, 26 cfs, June 21, 1994, gage height 2.40 ft. No flow at times.

EXTREMES FOR CURRENT WATER YEAR. Maximum discharge, 24 cfs, 1500 hrs, Aug. 29, gage height 2.24 ft. No flow at times.



E245-95

8313245 Pajarito Canyon above TA-18 near Los Alamos, NM

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.22	0.47	0	0	0	0.82	0.65	0.93	2.1	0.50	0	0.08
2	0.22	0.47	0	0	0	1.1	0.58	0.92	1.9	0.40	0	0.03
3	0.22	0.47	0	0	0	0.96	0.56	0.89	1.7	0.35	0	0
4	0.22	0.48	0	0	0	1.4	0.52	0.89	1.6	0.33	0.02	0
5	0.22	0.50	0	0	0	1.5	0.50	0.95	1.5	0.30	0.33	0
6	0.23	0.55	0	0	0	2.7	0.48	0.89	1.5	0.21	0	0.01
7	0.24	0.60	0	0	0	1.6	0.43	0.87	1.4	0.18	0	0.83
8	0.25	0.70	0	0	0	1.1	0.42	0.86	1.3	0.16	0	0.44
9	0.25	0.80	0	0	0	1.0	0.44	0.81	1.2	0.13	0	0.35
10	0.25	1.0	0	0	0	1.0	0.50	0.77	1.2	0.10	0	0.14
11	0.29	0.90	0	0	0	0.98	0.72	0.75	1.1	0.09	0.08	0.36
12	0.32	0.70	0	0	0	0.95	0.58	0.72	1.1	0.08	0	0.07
13	0.40	0.60	0	0	0.01	0.90	0.57	0.72	1.1	0.08	0.14	0.03
14	0.50	0.40	0	0	0.02	0.90	0.55	0.70	1.0	0.08	0.09	0
15	0.70	0.20	0	0	0.02	0.88	0.53	0.69	0.97	0.11	0.04	0
16	0.80	0.11	0	0	0.03	0.85	0.51	0.67	0.95	0.35	0	0
17	1.00	0.06	0	0	0.05	0.85	0.53	0.67	0.95	0.30	0	0
18	0.90	0	0	0	0.06	0.84	0.54	0.74	0.69	1.2	0	0
19	0.80	0	0	0	0.07	0.84	0.57	0.67	0.56	0.46	0	0
20	0.80	0	0	0	0.08	0.84	0.58	0.64	0.51	0.35	0.03	0
21	0.70	0	0	0	0.09	0.84	0.60	0.64	0.49	0.27	0	0
22	0.65	0	0	0	0.10	0.82	0.65	0.64	0.43	0.22	0	0
23	0.60	0	0	0	0.20	0.84	0.65	0.65	0.41	0.14	0	0
24	0.55	0	0	0	0.30	0.84	0.71	0.66	0.41	0.08	0	0
25	0.55	0	0	0	0.42	0.84	0.75	0.59	0.44	0.04	0.02	0
26	0.55	0	0	0	0.50	0.82	0.75	0.59	0.46	0.03	0	0
27	0.50	0	0	0	0.55	0.92	0.75	0.57	0.45	0.02	0.12	0
28	0.50	0	0	0	0.79	0.75	0.80	0.61	0.61	0.01	0.08	0
29	0.47	0	0	0	—	0.72	0.89	3.4	0.55	0.01	1.3	0
30	0.47	0	0	0	—	0.66	0.91	3.8	0.54	0.01	0.35	0
31	0.47	—	0	0	—	0.73	—	2.9	—	0	0.17	—
Total	14.84	9.01	0	0	3.29	30.79	18.22	30.8	29.1	6.59	2.77	2.34
Mean	0.48	0.3	0	0	0.12	0.99	0.61	0.99	0.97	0.21	0.089	0.078
Max	1	1	0	0	0.79	2.7	0.91	3.8	2.1	1.2	1.3	0.83
Min	0.22	0	0	0	0	0.66	0.42	0.57	0.41	0	0	0
AC-FT	29	18	0	0	6.5	61	36	61	58	13	5.5	4.6

CY 1994: TOTAL* 23.85 MEAN 0.26 MAX 1.0 MIN 0 AC-FT 47

WATER YEAR 1995: TOTAL 147.7 MEAN 0.4 MAX 3.8 MIN 0 AC-FT 293

* Incomplete Record

8313250 Pajarito Canyon above Highway 4 near White Rock, NM

LOCATION. Lat 35° 49'28", long 106° 13'36", in Ramon Vigil Grant, Los Alamos County, 0.25 mi upstream from NM State Highway 4 and White Rock, NM

DRAINAGE AREA. 10.9 mi².

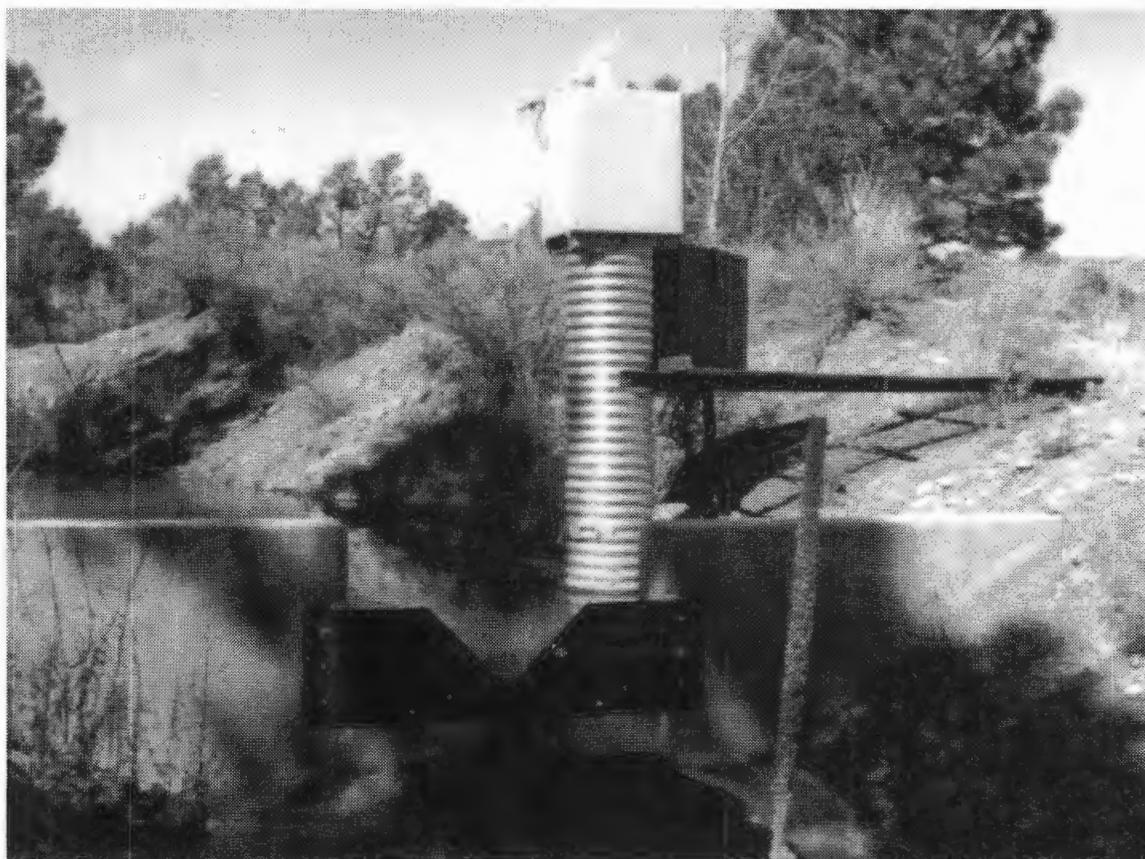
PERIOD OF RECORD. November 1993 to September 30, 1995.

GAGE. Data logger with cellular telemetry and concrete control. Elevation of gage is 6,550 ft above *National Geodetic Vertical Datum of 1929* from topographic map and GPS.

REMARKS. Records poor.

EXTREMES FOR PERIOD OF RECORD. Maximum discharge 4.6 cfs Aug. 29, 1995, gage height 2.76 ft. No flow at times.

EXTREMES FOR CURRENT WATER YEAR. Maximum discharge 4.6 cfs at 1430 hrs Aug. 29, gage height 2.76 ft. No flow at times.



E250-95

8313250 Pajarito Canyon above Highway 4 near White Rock, NM

**DAILY DISCHARGE IN CUBIC FEET PER SECOND
WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.10	0	0.09	0	0	0.05	0.06	0.05	0.12	0.05	0	0
2	0.10	0	0.09	0	0	0.06	0.06	0.05	0.11	0.02	0	0
3	0.10	0	0.09	0	0	0.06	0.06	0.05	0.09	0.01	0	0
4	0.11	0	0.09	0	0	0.06	0.06	0.05	0.09	0	0	0
5	0.11	0	0.09	0	0	0.06	0.06	0.06	0.08	0	0	0
6	0.11	0	0.09	0	0.01	0.06	0.06	0.06	0.07	0	0	0
7	0.12	0	0.09	0	0.10	0.06	0.06	0.05	0.06	0	0	0.03
8	0.12	0.10	0.09	0	0.10	0.06	0.06	0.07	0.06	0	0	0.10
9	0.12	0.70	0.09	0	0.10	0.06	0.06	0.06	0.06	0	0	0.06
10	0.12	0.65	0.09	0	0.09	0.06	0.06	0.05	0.05	0	0	0.02
11	0.12	0.45	0.09	0	0.08	0.06	0.06	0.06	0.05	0	0	0.02
12	0.12	0.40	0.09	0	0.08	0.06	0.06	0.05	0.05	0	0.01	0.01
13	0.12	0.40	0.09	0	0.12	0.06	0.06	0.05	0.05	0	0.13	0.01
14	0.20	0.40	0.09	0	0.15	0.06	0.06	0.05	0.05	0	0.05	0.01
15	0.60	0.30	0.10	0	0.14	0.06	0.06	0.05	0.04	0	0.02	0.02
16	1.1	0.25	0.10	0	0.10	0.06	0.06	0.04	0.03	0	0.01	0.01
17	2.0	0.20	0.10	0	0.08	0.06	0.06	0.05	0.02	0	0.02	0.01
18	0.40	0.20	0.10	0	0.08	0.06	0.06	0.05	0.02	0.10	0.02	0.01
19	0.20	0.20	0.10	0	0.06	0.06	0.06	0.05	0.01	0.03	0.01	0.01
20	0.13	0.12	0.10	0	0.06	0.06	0.06	0.05	0.01	0.03	0.01	0
21	0.10	0.10	0.10	0	0.05	0.06	0.06	0.04	0	0.03	0	0
22	0.09	0.09	0.10	0	0.06	0.06	0.06	0.04	0	0.03	0	0
23	0.08	0.08	0.09	0	0.05	0.06	0.06	0.04	0	0	0	0
24	0.07	0.08	0.09	0	0.03	0.06	0.06	0.09	0.01	0	0	0
25	0.04	0.09	0.09	0	0.04	0.06	0.06	0.07	0.02	0	0	0
26	0.02	0.09	0.09	0	0.05	0.06	0.06	0.07	0.06	0	0	0
27	0.02	0.09	0.09	0	0.04	0.06	0.05	0.06	0.04	0	0	0
28	0	0.09	0.09	0	0.03	0.06	0.05	0.09	0.03	0	0	0
29	0	0.09	0.09	0	—	0.06	0.05	0.31	0.06	0	0.3	0.01
30	0	0.09	0.09	0	—	0.06	0.05	0.48	0.09	0	0.03	0.01
31	0	—	0.09	0	—	0.06	—	0.14	—	0	0.01	—
Total	6.52	5.26	2.87	0	1.7	1.85	1.76	2.48	1.43	0.3	0.62	0.34
Mean	0.21	0.18	0.093	0	0.061	0.06	0.059	0.08	0.048	0.01	0.02	0.011
Max	2.0	0.70	0.10	0	0.15	0.06	0.06	0.48	0.12	0.10	0.30	0.10
Min	0	0	0.09	0	0	0.05	0.05	0.04	0	0	0	0
AC-FT	13	10	5.7	0	3.4	3.7	3.5	4.9	2.8	0.6	1.2	0.7

CY 1994: TOTAL*14.65 MEAN 0.16 MAX 2.0 MIN 0 AC-FT 29

WATER YEAR 1995: TOTAL 25.13 MEAN 0.069 MAX 2.0 MIN 0 AC-FT 50

* Incomplete Record

8313252 Water Canyon above Highway 501 near Los Alamos, NM

LOCATION. Lat 35° 50'11", long 106° 21'46", T. 19 N, R. 5 E., Los Alamos County in Santa Fe National Forest, 0.3 mi upstream from NM State Highway 501 and 0.3 mi NW of junction of State Highways 501 and 4.

DRAINAGE AREA. 3.39 mi².

PERIOD OF RECORD. October 1994 to September 30, 1995.

GAGE. Data logger with cellular telemetry and 120-degree weir plate. Elevation of gage is 7,575 ft above *National Geodetic Vertical Datum of 1929* from topographic map.

REMARKS. Records good.

EXTREMES FOR CURRENT WATER YEAR. Maximum discharge 0.21 cfs at 1335 hrs, March 14 gage height 1.30 ft. No flow most of time.



E252-95

8313252 Water Canyon above Highway 501 near Los Alamos, NM

**DISCHARGE IN CUBIC FEET PER SECOND
WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995**

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0.10	0	0	0	0	0
2	0	0	0	0	0	0	0.09	0	0	0	0	0
3	0	0	0	0	0	0	0.09	0	0	0	0	0
4	0	0	0	0	0	0	0.08	0	0	0	0	0
5	0	0	0	0	0	0	0.08	0	0	0	0	0
6	0	0	0	0	0	0	0.07	0.01	0	0	0	0
7	0	0	0	0	0	0	0.06	0.02	0	0	0	0
8	0	0	0	0	0	0	0.05	0.02	0	0	0	0
9	0	0	0	0	0	0	0.04	0.04	0	0	0	0
10	0	0	0	0	0	0.05	0.04	0.05	0	0	0	0
11	0	0	0	0	0	0.06	0.04	0.06	0	0	0	0
12	0	0	0	0	0	0.06	0.04	0.07	0	0	0	0
13	0	0	0	0	0	0.05	0.03	0.08	0	0	0	0
14	0	0	0	0	0	0.08	0.03	0.07	0	0	0	0
15	0	0	0	0	0	0.12	0.02	0.05	0	0	0	0
16	0	0	0	0	0	0.14	0.02	0.05	0	0	0	0
17	0	0	0	0	0.04	0.15	0.01	0.05	0	0	0	0
18	0	0	0	0	0.12	0.15	0.01	0.05	0	0	0	0
19	0	0	0	0	0.12	0.15	0.01	0.05	0	0	0	0
20	0	0	0	0	0.10	0.14	0.01	0.04	0	0	0	0
21	0	0	0	0	0.02	0.14	0.01	0.04	0	0	0	0
22	0	0	0	0	0	0.14	0	0.04	0	0	0	0
23	0	0	0	0	0	0.13	0	0.03	0	0	0	0
24	0	0	0	0	0	0.13	0	0.03	0	0	0	0
25	0	0	0	0	0	0.13	0	0.03	0	0	0	0
26	0	0	0	0	0	0.13	0	0.02	0	0	0	0
27	0	0	0	0	0	0.12	0	0.02	0	0	0	0
28	0	0	0	0	0	0.12	0	0.02	0	0	0	0
29	0	0	0	0	---	0.11	0	0.01	0	0	0	0
30	0	0	0	0	---	0.11	0	0.01	0	0	0	0
31	0	---	0	0	---	0.10	---	0.01	---	0	0	---
Total	0	0	0	0	0.4	2.51	0.93	0.97	0	0	0	0
Mean	0	0	0	0	0.014	0.081	0.03	0.031	0	0	0	0
Max	0	0	0	0	0.12	0.15	0.10	0.08	0	0	0	0
Min	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0.8	5	1.8	1.9	0	0	0	0

CY 1994: TOTAL* 0.00 MEAN 0 MAX 0 MIN 0 AC-FT 0
 WATER YEAR 1995: TOTAL 4.81 MEAN 0.013 MAX 0.15 MIN 0 AC-FT 9.5

* Incomplete Record

8313253 Cañon del Valle above Highway 501 near Los Alamos, NM

LOCATION. Lat 35° 51'06", long 106° 21'17", NE 1/4, NE 1/4, sec. 25, T.19 N, R. 5 E., Los Alamos County in Santa Fe National Forest, 0.25 mi upstream from NM State Highway 501, 4.7 mi above mouth and 1.5 mi N of junction of State Highways 501 and 4.

DRAINAGE AREA. 2.46 mi².

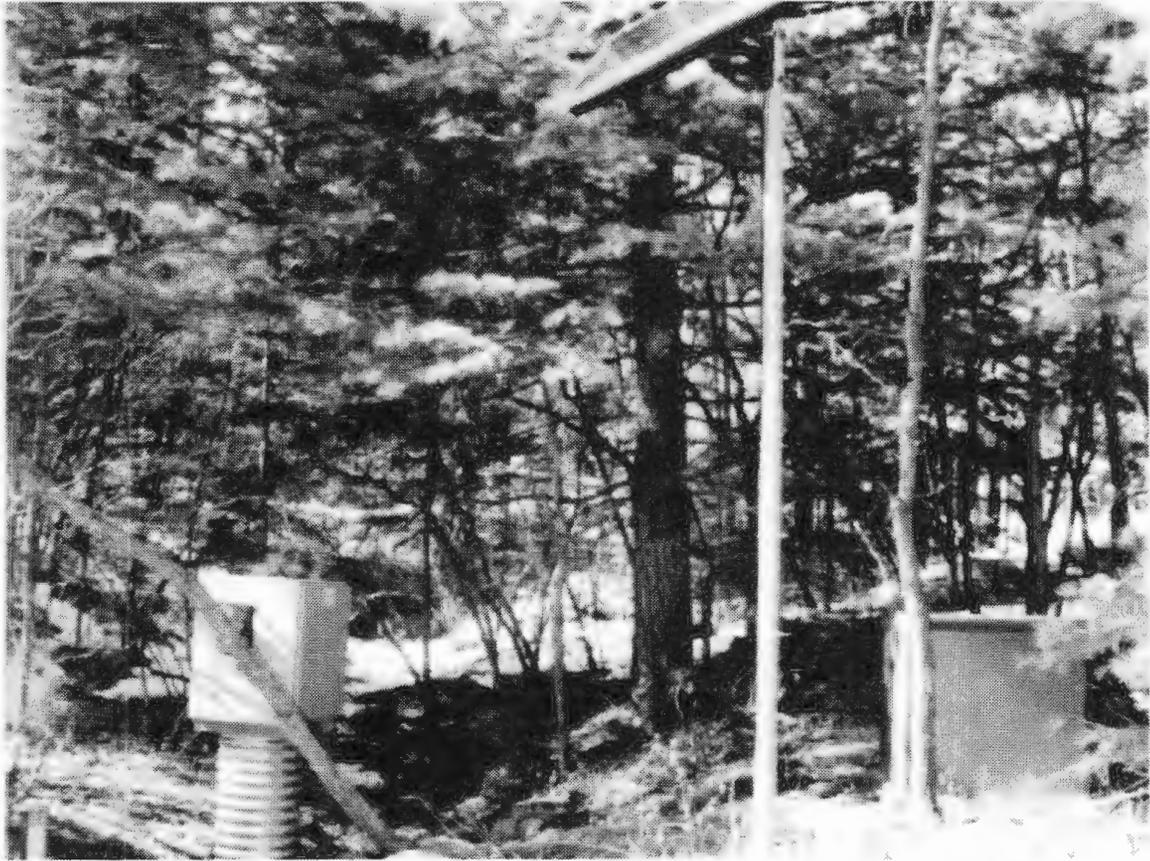
PERIOD OF RECORD. October 1994 to September 30, 1995.

GAGE. Data logger with cellular telemetry and 120° weir plate. Elevation of gage is 7,745 ft above *National Geodetic Vertical Datum of 1929* from topographic map.

REMARKS. Records fair.

EXTREMES FOR PERIOD OF RECORD. No flow for period.

EXTREMES FOR CURRENT WATER YEAR. No flow all year.



E253-95

8313253 Cañon del Valle above Highway 501 near Los Alamos, NM

DAILY DISCHARGE IN CUBIC FEET PER SECOND
WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	—	0	0	0	0	0	0	0
30	0	0	0	0	—	0	0	0	0	0	0	0
31	0	—	0	0	—	0	—	0	—	0	0	—
Total	0	0	0	0	0	0	0	0	0	0	0	0
Mean	0	0	0	0	0	0	0	0	0	0	0	0
Max	0	0	0	0	0	0	0	0	0	0	0	0
Min	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	0	0

CY 1994: TOTAL* 0 MEAN 0 MAX 0 MIN 0 AC-FT 0
WATER YEAR 1995: TOTAL 0 MEAN 0 MAX 0 MIN

0 AC-FT 0

* Incomplete Record

8313255 Potrillo Canyon near White Rock, NM

LOCATION. Lat 35° 48'53", long 106° 14'00", in Ramon Vigil Grant, Los Alamos County, 2.0 mi SW of White Rock and 0.25 mi upstream from NM State Highway 4.

DRAINAGE AREA. 2.25 mi².

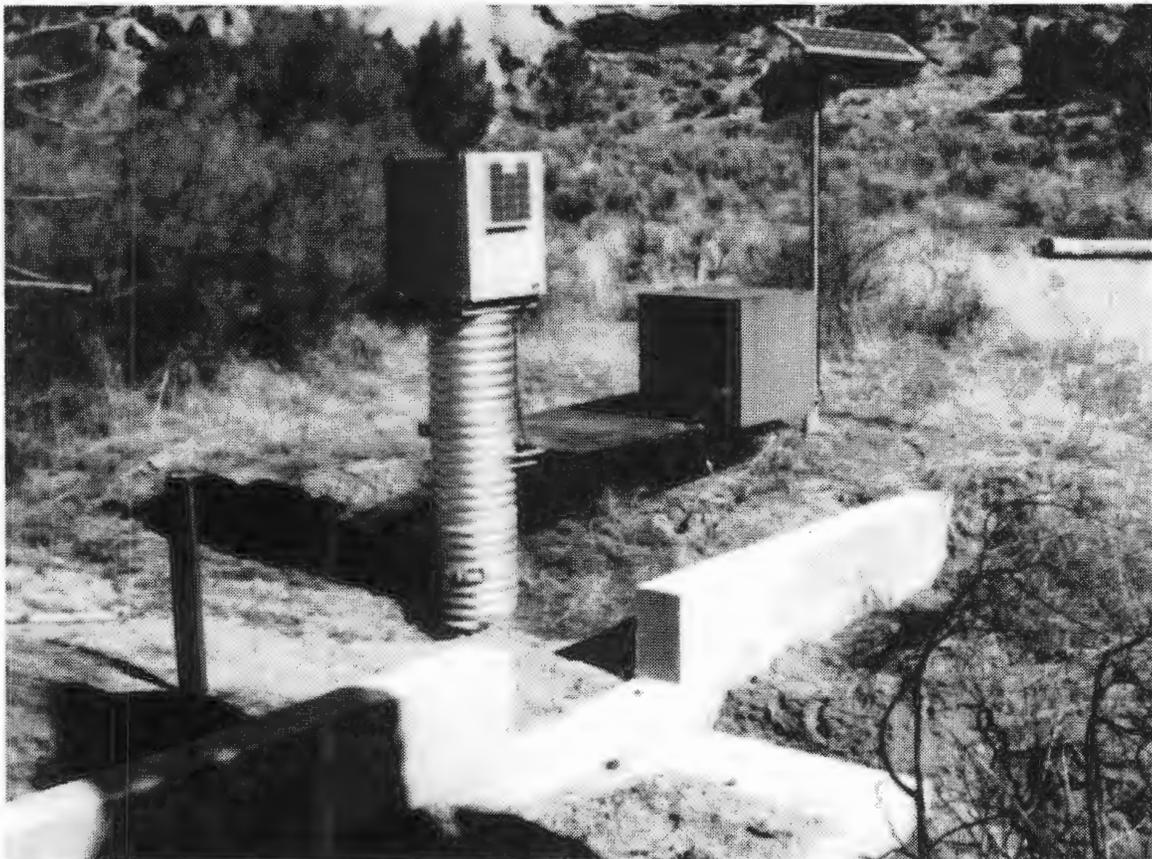
PERIOD OF RECORD. October 1993 to September 30, 1995.

GAGE. Data logger with cellular telemetry and concrete control. Elevation of gage is 6,460 ft above *National Geodetic Vertical Datum of 1929* from topographic map.

REMARKS. Records good to fair.

EXTREMES FOR PERIOD OF RECORD. Maximum discharge 63 cfs Aug. 29, 1995, gage height 2.70 ft. No flow most of time.

EXTREMES FOR CURRENT WATER YEAR. Maximum discharge 63 cfs at 1355 hrs, Aug. 29, 1995, gage height 2.70 ft. No flow most of time.



E255-95

8313255 Potrillo Canyon near White Rock, NM

DAILY DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0.34
8	0	0	0	0	0	0	0	0	0	0	0	0.03
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	---	0	0	0	0	0	1.4	0
30	0	0	0	0	---	0	0	0	0	0	0	0
31	0	---	0	0	---	0	---	0	---	0	0	---
Total	0	0	0	0	0	0	0	0	0	0	1.4	0.37
Mean	0	0	0	0	0	0	0	0	0	0	0.045	0.012
Max	0	0	0	0	0	0	0	0	0	0	1.4	0.34
Min	0	0	0	0	0	0	0	0	0	0	0	0
AC-FT	0	0	0	0	0	0	0	0	0	0	2.8	0.7

CY 1994: TOTAL* 0 MEAN 0 MAX 0 MIN 0 AC-FT 0

WATER YEAR 1995: TOTAL 1.77 MEAN 0.005 MAX 1.4 MIN 0 AC-FT 3.5

* Incomplete Record

Los Alamos Canyon Seepage/Channel Loss Investigation

Reach. Investigation was done from just below Los Alamos Reservoir to the mouth of the canyon. Locations are referenced to two physical features 1) gaging station 08313025 and 2) the security fence at the downstream boundary of Los Alamos Technical Area (TA) 2.

Date. All discharge measurements were made May 3, 1995.

Weather. Weather for the data collection effort was excellent. There was no precipitation before or during the investigation to bias the results. Temperatures were at or near normal.

Streamflow. Flow in the reach was steady from spillage from Los Alamos Reservoir. The following table summarizes the gains and losses. Increases from the only flowing tributary (Pueblo Canyon) is considered a contribution and not a gain from seepage.

Remarks. Seepage investigation is rated good based on weather, lack of precipitation, and favorable discharge measuring conditions. Individual discharge measurements are rated good $\pm 5\%$ and accuracy should be considered when evaluating results of this investigation.

Date: May 3, 1995

Stream	Location	Time	Water Temp (°C)	Specific Conductance Us/cm	Discharge ft ³ /s	Discharge	
						Gain/Loss percent	Gain/Loss ft ³ /s
Los Alamos Canyon	0.5 mi U/S from Gage 08313025 Lat 35°52'45", long 106°20'14"	1020	6.0	120	5.51	-	-
Los Alamos Canyon	Below Rainbow Bridge from Gage 08313025 Lat 35°52'48", long 106°19'42"	1130	6.5	110	5.51	0	0
Los Alamos Canyon	Lat 35°52'50", long 106°19'12"	1215	7.0	100	5.24	-4.9	-.27
Los Alamos Canyon	1.0 mi below Gage 08313025 Lat 35°52'45", long 106°18'42"	1210	8.3	110	6.33	+20.8	+1.09
Los Alamos Canyon	1.5 mi D/S from Gage 08313025 Lat 35°52'37", long 106°18'17"	1120	7.8	110	6.54	+3.3	+.21
Los Alamos Canyon	1.8 mi D/S from Gage 08313025 Lat 35°52'34", long 106°17'58"	1040	7.3	110	6.75	+3.2	+.21
Los Alamos Canyon	2.2 mi D/S from Gage 08313025 Lat 35°52'32", long 106°17'39"	1000	6.5	120	6.79	+0.6	+0.07
Los Alamos Canyon	At security fence just D/S TA-2 Lat 35°52'34", long 106°17'24"	1025	7.0	130	6.96	+2.5	+.17

Date: May 3, 1995

Stream	Location	Time	Water Temp (°C)	Specific Conductance Us/cm	Discharge		
					ft ³ /s	Gain/Loss percent	Gain/Loss ft ³ /s
Los Alamos Canyon	0.5 mi D/S from TA-2 fence Lat 35°52'27", long 106°17'24"	1110	8.5	120	6.44	-7.5	-.52
Los Alamos Canyon	1.0 mi D/S from TA-2 fence Lat 35°52'24", long 106°16'20"	1215	9.5	120	6.77	+5.1	+3.3
Los Alamos Canyon	1.7 mi D/S from TA-2 fence at Gage 08313030 Lat 35°52'20", long 106°5'37"	1245	11.0	130	6.18	-8.8	-.59
Los Alamos Canyon	2.2 mi D/S from TA-2 fence Lat 35°52'24", long 106°15'8"	1335	11.5	130	5.85	-5.3	-.33
Los Alamos Canyon	2.8 mi D/S from TA-2 fence Lat 35° 52'10", long 106°14'28"	1415	13.0	140	5.74	-1.9	-.11
Los Alamos Canyon	3.4 mi D/S from TA-2 fence Lat 35°52'8", long 106°13'55"	1405	12.6	140	5.26	-8.4	-.48
Los Alamos Canyon	Los Alamos Canyon near Los Alamos Gage 08313042 Lat 35°52'01", long 106°13'21"	1330	13.4	140	4.76	-9.5	-.50
Pueblo Canyon	Pueblo Canyon Gage 08313060 Lat 35°52'13", long 106°12'56"	1530	22.0	—	0.87	"In Flow"	
Los Alamos Canyon	At mouth 100 ft D/S from Rio Grande at Otowi Gage 08313030 Lat 35°52'29", long 106°8'30"	24.0	230	1.35	-76.0	-4.28	

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