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Fourth Progress Report on the Cooperative Investigation
of Springs and Stream Flow in the Tecolote Tunnel
Area of Santa Barbara, California

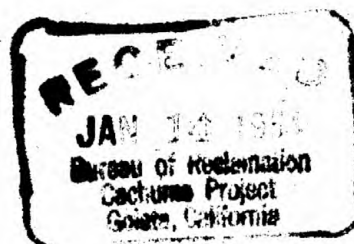
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FOURTH PROGRESS REPORT ON THE COOPERATIVE INVESTIGATION
OF SPRINGS AND STREAM FLOW IN THE TECOLOTE TUNNEL AREA
OF SANTA BARBARA COUNTY, CALIFORNIA

BY
C. E. Burgess

Prepared in cooperation with the
Santa Barbara County Water Agency

July 1952

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Fourth Progress Report on the Cooperative Investigation
of Springs and Stream Flow in the Tecolote Tunnel Area
of Santa Barbara County, California

INTRODUCTION

This is a continuation of annual progress reports giving the results of discharge measurements made in the Santa Ynez Mountains between Refugio Canyon on the west to San Marcos Pass and the Painted Cave area on the east. This portion of Santa Barbara County has been designated as the "Tecolote Tunnel Area" because a tunnel by that name, now being built by the Bureau of Reclamation, passes through it. The purpose of this tunnel is to divert flood runoff from the Santa Ynez River, stored in Cachuma Reservoir, to the city of Santa Barbara and adjacent areas.

During the construction of this tunnel, the seepage from the south portal has averaged 6.4 second-feet for the year ending April 30, 1952, the average being 8.7 second-feet for the last 6 months of that period. Both of these values exceed the average total discharge prior to April 30, 1951, for more than 120 springs measured in the Tecolote Tunnel Area.

As it was not known what effect the seepage from this tunnel might have on the flow of springs and streams in the immediate vicinity, the Santa Barbara County Water Agency requested the U. S. Geological Survey to institute an observational program. This program was started in 1948--about 2 years before work was started on the tunnel. The area covered by the observational program was made sufficiently large to include all the springs that could possibly be affected, as well as certain border springs believed to be outside the zone of influence.

The purpose of this, the fourth progress report, is to make available factual data obtained during the year ending April 30, 1952. This program is operated under a cooperative agreement between the U. S. Geological Survey and the Santa Barbara County Water Agency whereby each pays half the cost of the investigation.

ACKNOWLEDGMENTS

Work and preparation of this report have been performed under the direct supervision of Douglas R. Woodward, William M. Littlefield, and Harold C. Troxell, all under the general supervision of Revoc C. Briggs, District Engineer, U. S. Geological Survey. Observations of flow were made by Clasen E. Burgess and Walter C. Heinrich.

PREVIOUS INVESTIGATIONS

In February 1946, the Bureau of Reclamation requested the Surface Water Branch of the U. S. Geological Survey to make a series of discharge measurements above points of existing diversions in Tecolote, Eagle, and Dos Pueblos canyons. During October 1948, a reconnaissance of all the streams in the Tecolote Tunnel Area was made, and a network of measuring sites was established.

During the period June to August 1948, at the request of the Santa Barbara County Water Agency, Joseph E. Upson of the Ground Water Branch of the U. S. Geological Survey located and measured 48 springs between the Tecolote Tunnel and the San Marcos Pass road. From October to November 1948, the Ground Water Branch extended examination of springs to cover the entire Tecolote Tunnel Area. During the period when the initial observations were made, a description of each spring, the geological formation in which the spring occurs, a chemical analysis of the water, and the first discharge measurement were obtained.

Later, in February 1949, the two programs of flow observations were consolidated and turned over to the Surface Water Branch for continuance.

PRECIPITATION

During the climatological year of July 1, 1951, to June 30, 1952, the annual precipitation for the first time in eight years exceeded normal rainfall at all Santa Barbara County stations. The annual precipitation for 1951-52 at Santa Barbara amounted to 21.90 inches, or 122 percent of normal, while 50 miles to the northwest, at Santa Maria, the precipitation amounted to 15.94 inches, or 154 percent of normal. This above-normal precipitation resulted almost entirely from the severe storms during January and March. The annual precipitation for the 10-year period 1942-52 for these two stations, in terms of their average annual precipitation, is given in table 1.

Table 1 - Annual precipitation, in percent of average annual precipitation, at Santa Barbara and Santa Maria for the period 1942-52.

Year	Santa Barbara	Santa Maria
1942-43	133	120
-44	98	101
-45	83	82
-46	62	80
-47	71	58
-48	50	58
-49	59	69
-50	73	65
-51	63	68
-52	122	154

The continuing subnormal precipitation prior to the current year had

created a critical water-supply situation in the coastal communities in the vicinity of Santa Barbara. The water stored in Gibraltar Reservoir and Jameson Lake was reduced to merely enough for emergency purposes. The filling of these reservoirs by runoff originating from the current year's precipitation has given some respite to the metropolitan area of Santa Barbara.

The program of cloud nucleation instituted in 1951 by the city of Santa Barbara was continued this year on a county wide basis.

RUNOFF

Although the computations of the annual runoff for the 1951-52 water year is still incomplete, there is every indication that runoff will be well above normal. Current records for other southern California areas indicate that the cumulative runoff as of June 30, 1952, was 28 percent above normal in the Santa Ana River basin in San Bernardino County, 126 percent above normal in the Santa Ysabel Creek basin in San Diego County, and 187 percent above normal in the Arroyo Seco basin in Los Angeles County. The runoff this year was marked by peaks of unusual magnitude, often approaching the maximum of record. The estimated peak discharge for the 1951-52 water year amounted to 1,100 second-feet for San Jose Creek, 800 second-feet for Atascadero Creek, 2,500 second-feet for Carpinteria Creek, and 3,000 second-feet for Salsipuedes Creek. The ranch foreman in the Dos Pueblos Canyon estimated the discharge of the March peak to be 500 cfs, the greatest in many years.

For a 7-year period prior to the 1951-52 water year, the annual runoff in the Santa Ynez Mountains had been continuously below normal. The annual runoff for the 10-year period 1941-51 is given in table 2 for certain drainage areas in, or within the vicinity of, the Tecolote Tunnel Area. Of these areas, only San Jose Creek drainage area on the south side of the Santa Ynez Mountains is within the Tecolote Tunnel Area.

Table 2 - Annual runoff, in acre-feet, for San Jose, Atascadero, Carpinteria, and Salsipuedes Creeks for the period 1941-51.

Water year	San Jose Creek	Atascadero Creek	Carpinteria Creek	Salsipuedes Creek
1941-42	765	220	316	10,650
-43	2,970	4,880	6,340	10,710
-44	1,070	2,280	1,680	8,870
-45	500	850	1,100	600
-46	390	265	208	630
-47	580	1,080	546	870
-48	30	40	4.8	402
-49	278	189	17.1	1,710
-50	269	183	152	1,280
-51	64	13	0	325
Estimated mean for the 25-year period 1920-45	1,110	1,500	1,700	5,600

Location and Distribution of Measuring Sites

The map on Plate 1, in the back of this report, shows the location and distribution of more than 120 measuring sites within the Tecolote Tunnel Area. The number shown at each site corresponds to the station number used throughout this and previous reports. In addition, the map gives the 500-foot contour interval as well as the location of the tunnel.

Records

The results of all discharge measurements of springs and streams in the Tecolote Tunnel Area from the beginning of this investigation through June 1952 are given in table 3 in the back of this report. For each station there is a chronological listing of measurements, preceded by a short description of the station including the location and altitude. The table also includes information regarding diversions and other pertinent data.

It is contemplated, as additional discharge measurements are made, that the results will be tabulated on the proper pages of table 3 and that future progress reports will not include results of all discharge measurements previously published.

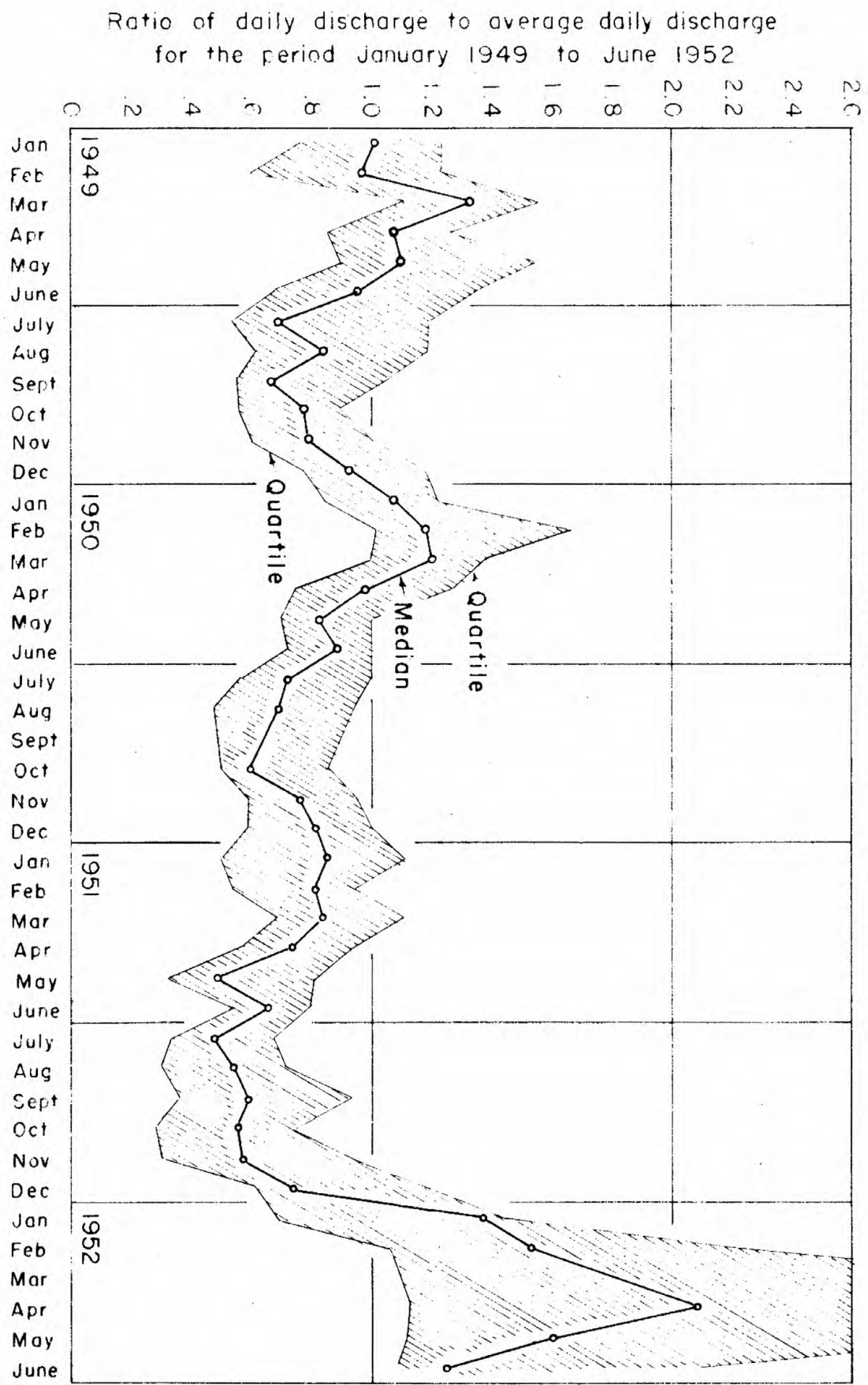
Basic Runoff Distribution

As indicated in previous reports, the influences that affect the outflow of springs in this area are a complex array of physical features. As a result, there is considerable variation in the runoff distribution at each station as well as between stations.

Following a practice established in the third progress report, records from 22 springs have been selected to indicate the basic runoff characteristic of the region. This group consists of springs 16, 18, 20, 31, 31, 33, 35, 62, 63, 66, 81, 82, and 90 on the southern slope of the Santa Ynez Mountains and springs 94, 103, 131, 123, 131, 135, 143, 148, and 151 on the northern slope. It is noted by reference to Plate 1 that these springs are well dispersed throughout the entire area.

To establish this basic distribution, the observed discharges at each point were given a dimensionless characteristic by expressing each in terms of average observed discharge for the period of record extending from January 1949 to June 1952. This period of record consists of four winter and three summer periods, but these unequal periods should not materially change the interrelationship of individual observations. The monthly medians of these 22 stations have been assumed to indicate the basic trend in runoff distribution and are plotted on Plate 2 in the form of a hydrograph. The quartile points have also been plotted on Plate 2 in order to demonstrate the variability of the data. The departure of the quartiles range from 10 to 50 percent of the median except during the period of storm runoff in the spring of 1952. This increased variability during storm periods results largely from surface runoff contributions to the ground-water runoff. For this reason a reasonable

Basic hydrograph of flow in the springs of the Tecolote Tunnel Area for the period of January 1949 to June 1952



time interval was allowed to lapse after each storm period before making the regular observation.

It is also quite difficult to obtain a measurement of the ground-water runoff at these points of observation because of the unusually large evapotranspiration losses associated with these areas of ground-water seepage. As a result, a satisfactory indication of this seepage is obtainable only during the winter months when these natural water losses are at a minimum. Consequently, a comparison of winter runoff should give the best indication as to trend in ground-water seepage. The data in Plate 2 shows that the median monthly runoff for the winter period January through April 1949 amounted to 1.10 times the average daily discharge. During the following 5-month winter period December 1949 to April 1950, the median value declined slightly to 1.08 times the average discharge. In the subsequent winter period December 1950 to April 1951, this median flow declined farther to 0.81 times the average discharge. Then during the current winter period December 1951 to April 1952, this median value increased to 1.49 times the average discharge. These four winter quantities are believed to indicate the general trend in mountain ground-water runoff.

Outflow from Tecolote Tunnel

The excavation of the 6.4-mile Tecolote Tunnel was started from the north portal on February 17, 1950, and from the south portal on May 3, 1950. The tunnel is to be of standard, horseshoe-shaped cross-section with a height of 7 feet, a width at the invert of 5.7 feet, and a cross-sectional area of 35.6 square-feet. This tunnel is designed to carry a maximum flow of 100 second-feet. As of June 30, 1952, 14,969 feet of excavation have been completed from the north portal and 11,448 feet from the south portal, leaving a tunnel distance of less than 1.4 miles for excavation. This remaining distance will be excavated from the south portal. The tunnel will be lined with con-

crete, with lining operations beginning at the north portal. The work at Cachuma Dam is scheduled for completion on or before December 1, 1952, allowing for the impoundment of next winter's storm runoff.

North Portal

The daily discharge or outflow in second-feet from the north portal for the period May 1, 1951, to April 30, 1952, is given in table 4. This outflow represents the water pumped from the tunnel to maintain satisfactory working conditions at the heading. As no further excavation is contemplated from this portal, this outflow should gradually diminish as the tunnel lining progresses.

On May 1, 1951, the heading was 9,200 feet from the north portal in the Sespe formation of friable sandstones and conglomerates as indicated in the third progress report. The excavation continued in this formation until the heading reached 9,880 feet from the portal. A major fault was traversed between 9,880 to 9950 feet from the portal. The excavation then passed into the Coldwater formation of friable sandstone with minor thin beds of siltstone until 11,638 feet from the portal. This formation produced only minor seepage.

The important Santa Ynez fault between the Coldwater and Jalama formations was contacted 11,638 feet from the portal. Beyond the fault and extending to 14,969 feet, the excavation was in the Jalama formation of mostly very dark grey, fine-grained, well-cemented siltstones and silty shales. These rocks are badly ground up in the first 300 to 400 feet from the Santa Ynez fault. Beds of very hard sandstone up to 200 feet thick were found between 14,250 and 14,969 feet at which point excavation from the north portal was discontinued. Between 14,368 feet and the limit of the excavation were several seeps of over 100 gallons per minute from open fractures and joints in the siltstones and sandstones before being sealed off by grouting operations.

Table 4

Daily outflow in second-feet from North Portal of Tecolote Tunnel for the year ending April 30, 1952

Day	MAY	JUNE	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.
1	.19	.16	.15	.16	.22	.25	.15	.26	.34	† .74		
2	.20	.18	.15	.16	.19	.22	.15	.24	.38			
3	.22	.16	.15	.16	.19	.23	.15	.23	.38			
4	.22	.16	.14	.16	.22	.23	.12	.23	.37			
5	.22	.16	.15	.17	.20	.23	.20	.23	.37			
6	.22	.16	.15	.16	.20	.22	.15	.25	.36			
7	.20	.16	.15	.16	.20	.21	.15	.23	.36			
8	.20	.16	.16	.16	.20	.23	.17	.23	.36			
9	.20	.16	.16	.18	.20	.22	.18	.23	.38			
10	.19	.16	.16	.18	.19	.22	.23	.25	.38			
11	.18	.16	.16	.19	.19	.20	.25	.26	.38			
12	.18	.18	.16	.18	.19	.22	.26	.26	.38			
13	.18	.18	.15	.18	.20	.23	.23	.25	.39			
14	.16	.20	.16	.18	.22	.18	.26	.25	.45			
15	.16	.18	.16	.18	.20	.20	.26	.25				
16	.16	.18	.16	.18	.21	.20	.28	.27				
17	.16	.16	.16	.18	.20	.24	.29	.26				
18	.16	.18	.16	.16	.23	.22	.31	.26				
19	.16	.16	.28	.18	.23	.22	.29	.26				
20	.16	.15	.22	.18	.23	.19	.29	.25				
21	.16	.16	.18	.18	.23	.19	.31	.28				
22	.15	.16	.16	.16	.23	.19	.29	.28				
23	.16	.16	.19	.16	.23	.16	.28	.28				
24	.16	.15	.18	.16	.23	.15	.26	.29				
25	.15	.15	.16	.16	.22	.14	.27	.31				
26	.16	.15	.19	.15	.23	.14	.29	.31				
27	.16	.15	.20	.18	.25	.14	.26	.29				
28	.15	.15	.22	.18	.23	.10	.25	.29				
29	.16	.15	.18	.18	.22	.20	.26	.32				
30	.16	.18	.16	.18	.19	.15	.25	.31				† .91
31	.16		.16	.19		.15		.34				

5.45*

5.27*

6.37*

7.09*

4.91*

5.32*

6.07*

6.25*

MEAN	.176	.164	.170	.172	.212	.196	.236	.266				
ACRE- FEET	11	9.7	10	11	13	12	14	16				

† Result of discharge measurements.

* Period May 1 to Dec. 31, 1951

MEAN

ACRE-FEET

97 *

Table
4

South Portal

The daily outflow from the south portal for the year ending April 30, 1952, is given in table 5. During the first portion of this year the daily outflow increased from slightly more than one second-foot to 11 second-feet in November. Since that date the daily discharge ranged from 7 to 10 second-feet. Because of this excessive seepage, very little progress was made during the past year on the south end of the tunnel excavation. During the year ending April 30, 1952, 4,670 acre-feet of seepage was drained from this end of the tunnel.

On May 1, 1951, the excavation was in the Cozy Dell formation which extends to 11,448 feet where the heading is now at a standstill. In general, the porosity of this rock is very small, with water occurring only in fractures. On August 8, 1951, a large flow of water was encountered in the brecciated siltstone. According to Mr. R. E. Trefzger, geologist of the Bureau of Reclamation, "A 40 to 50-foot thick zone of intense fracturing and crushing with very little fault movement, as shown by the small amounts of gouge, is the source of water and fragmented rock. It is this particular combination that has caused such difficulty in advancing the south portal heading."

Table 5

Daily outflow in second-feet from South Portal of Tecolote Tunnel for the year ending April 30, 1952

Day	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.
1	1.4	# 2.44		4.2	7.8	4.0	8.0	9.1	7.5	8.3	8.9	8.7
2	1.1			4.2	8.2	3.9	9.8	9.0	7.4	8.3	8.8	8.5
3	1.7			4.2	8.6	3.8	8.8	8.8	7.9	8.3	8.7	7.2
4	1.8			4.2	9.0	3.9	7.8	8.4	8.1	8.3	8.6	8.1
5	1.8			4.2	8.2	4.2	6.8	8.9	7.9	9.5	8.6	8.1
6	1.9			4.2	7.6	4.2	7.6	9.4	7.9	8.2	8.6	8.2
7	1.9			4.2	7.0	4.2	8.6	8.1	7.9	8.4	8.6	8.3
8	1.9	# 2.44		4.5	7.0	4.2	9.6	8.5	7.9	8.4	8.6	9.1
9	1.9			4.7	7.0	4.3	9.6	9.0	7.9	8.2	8.6	9.2
10	2.0			6.3	7.0	4.3	9.6	9.4	7.8	8.1	8.6	9.2
11	1.8			5.0	7.2	4.2	9.6	8.8	7.8	8.0	9.1	9.7
12	1.9	# 2.50		5.0	7.2	4.1	9.6	9.3	7.7	8.1	8.4	9.7
13	1.8			5.0	7.1	4.3	9.6	9.4	7.7	8.2	8.9	9.6
14	1.8			3.7	7.3	4.5	9.3	9.3	7.7	8.6	8.6	9.6
15	1.9			4.9	7.0	4.6	9.2	9.3	7.8	8.6	8.5	8.8
16	1.9		# 2.92	5.4	6.8	4.8	9.4	9.3	7.8	8.7	8.4	8.9
17				5.5	6.6	4.9	9.4	9.3	7.9	8.8	8.3	9.2
18				5.4	6.9	5.0	9.5	9.4	8.0	8.8	8.6	9.8
19				5.3	7.5	5.2	9.5	8.3	8.1	8.7	8.6	9.8
20				5.2	6.6	5.4	9.8	8.1	8.2	8.8	8.7	9.7
21		# 2.50		6.8	7.3	5.6	9.5	8.2	8.3	9.2	8.8	9.7
22				7.0	7.2	5.8	9.3	8.0	8.2	9.1	8.8	9.7
23			# 3.00	7.8	7.1	6.3	9.0	7.8	8.2	9.1	8.9	10
24				7.8	7.1	6.3	9.4	7.6	8.1	9.0	8.9	10
25				7.3	7.0	6.5	9.9	7.4	7.9	9.0	8.6	10
26				6.8	6.9	7.0	10	7.0	7.9	8.9	8.9	10
27				6.3	4.2	7.5	11	7.4	8.0	8.9	8.9	10
28				7.2	3.9	7.9	9.5	7.4	8.0	9.0	8.9	10
29		# 2.15		7.0	4.0	8.2	3.6	7.7	8.1	9.0	8.9	10
30				8.3	4.0	7.1	9.2	7.7	7.9		8.9	9.9
31	# 2.65			7.6		7.1		7.6	8.6		8.9	

206.3 * 271.5 * 246.3 * 270.1 *
 175.2 * 163.3 * 262.9 * 250.5 * 278.7 *

MEAN	a 2.0	a 2.5	a 2.9	5.65	6.88	5.27	9.05	8.48	7.95	8.64	8.71	9.29
ACRE- FEET	a 123	a 149	a 178	348	409	324	539	521	489	497	536	553

U. S. GOVERNMENT PRINTING OFFICE 16-60060-1

a estimated

† Result of discharge measurements

MEAN 64
 ACRE-FEET 4,670

Table
5

SAN ANTONIO CREEK AT SAN MARCOS PASS ROAD

Location.- Lat. $34^{\circ}28'00''$, long. $119^{\circ}46'10''$. At bridge on State Highway 150, about 2 miles north of Highway 101.

Altitude.- About 500 feet, from topographic map.

Description.- Measuring site in natural creek channel, at highway crossing.

Diversion.- Two diversions above station-1, on Cat Canyon, 25 foot concrete dam with reservoir capacity of 500,000 gal., and 2, 1.5 M.G. reservoir on Loma Abaja.

Previous measurements.- 1945.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.	: °F
Nov. 15, 1948	(8:05 a.m.)	: No flow	: No flow	:
Dec. 13	(8:45 a.m.)	: No flow	: No flow	:
Jan. 3, 1949	(8:30 a.m.)	: No flow	: No flow	:
Mar. 16	(3:00 p.m.)	: 0.78	: 350	:
Apr. 11	(12:45 p.m.)	: .092	: 41	:
May 11	(11:20 a.m.)	: .020	: 9.1	:
June 13	(9:10 a.m.)	: .053	: 23.8	:
July 19	(1:00 p.m.)	: No flow	: No flow	:
Aug. 12	(10:10 a.m.)	: No flow	: No flow	:
Sept. 13	(12:45 p.m.)	: No flow	: No flow	:
Nov. 1	(8:45 a.m.)	: No flow	: No flow	:
16	(11:40 a.m.)	: No flow	: No flow	:
Dec. 14	(9:15 a.m.)	: No flow	: No flow	:
Jan. 9, 1950	(2:35 p.m.)	: No flow	: No flow	:
Feb. 13	(9:20 a.m.)	: .52	: 230	: 47
Mar. 8	(10:40 a.m.)	: .092	: 41	: 55
Apr. 19	(10:30 a.m.)	: .050	: 22	: 64
May 18	(10:20 a.m.)	: .022	: 9.9	: 57
June 19	(8:20 a.m.)	: .005	: 2.2	: 62
July 17	(1:00 p.m.)	: No flow	: No flow	:
Aug. 10	(10:40 a.m.)	: do	: No flow	:
Oct. 23	(7:30 a.m.)	: do	: do	:
Nov. 20	(10:30 a.m.)	: do	: do	:
Dec. 13	(12:30 p.m.)	: do	: do	:
Jan. 18, 1951	(10:00 a.m.)	: do	: do	:
Feb. 13	(12:30 p.m.)	: do	: do	:
Mar. 13	(12:30 p.m.)	: do	: do	:
Apr. 16	(12:05 p.m.)	: do	: do	:

SAN ANTONIO CREEK AT SAN MARCOS PASS ROAD (cont'd)

DATE		DISCHARGE		TEMP	REMARKS
		Second- feet	Gals. per min.	"F	
1951					
June 13	(10:45 a.m.)	No flow			
July 23	(1:20 p.m.)	do			
Sept 12	(12:00 m	do			
Oct. 11	(1:45 p.m.)	do			
Nov. 5	(10:40 a.m.)	do			
Dec. 4	(1:00 p.m.)	do			
1952					
Jan. 7	(8:30 a.m.)	2.25	1,010		Concrete weir below bridge washed out.
Feb. 21	(12:50 p.m.)	.62	280	52	
Apr. 8	(11:00 a.m.)	2.33	1,040	58	
May 14	(2:00 p.m.)	.78	350	70	
June 5	(1:35 p.m.)	.47	212	64	

SPRING - ETIENNE LEJEUNE

Location.- Lat. 34°30'50", long. 119°47'10", about 0.6 mile north of Painted Cave.

Altitude.- About 2,700 feet, from topographic map.

Description.- Uncurbed pool at foot of boulders at falls in creek bed.
Discharge measured at outlet of pool.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.:	: °F
Feb. 8, 1949		0.0051	2.3	
Apr. 11	(9:30 a.m.)	.021	9.4	
May 23	(10:30 a.m.)	.0071	3.2	
June 23	(8:05 a.m.)	.0069	3.10	60
Aug. 12	(9:00 a.m.)	.011	5.1	57
Sept. 29	(8:25 a.m.)	.012	5.2	
Nov. 1	(9:15 a.m.)	.0059	2.6	55
Dec. 20	(8:35 a.m.)	.0077	3.4	42
Jan. 17, 1950	(9:10 a.m.)	.019	8.2	46
Feb. 13	(1:30 p.m.)	.023	10	47
Mar. 8	(11:25 a.m.)	.018	7.9	50
Apr. 19	(11:10 a.m.)	.0096	4.3	57
May. 18	(11:30 a.m.)	.012	5.6	52
June 22	(10:55 a.m.)	.0043	1.9	56
Aug. 10	(11:10 a.m.)	.0022	1.0	60
Oct. 24	(8:10 a.m.)	.0025	1.1	57
Nov. 16	(8:40 a.m.)	.0062	2.8	
Dec. 20	(10:30 a.m.)	.0071	3.2	54
Jan. 18, 1951	(8:10 a.m.)	.0095	4.3	45
Feb. 21	(8:00 a.m.)	.0098	4.4	41
Mar. 20	(9:25 a.m.)	.010	4.7	
Apr. 23	(7:15 a.m.)	.0027	1.2	
June 13	(8:15 a.m.)	.0014	.62	50
July 31	(8:50 a.m.)	Pool at point of diversion		
Sept. 12	(12:45 p.m.)	do		
Oct. 22	(9:00 a.m.)	.0027	1.20	53
Nov. 5	(10:30 a.m.)	.0018	.81	60
Dec. 6	(10:05 a.m.)	.0031	1.38	43
Jan. 9, 1952	(8:55 a.m.)	.0080	3.57	39
Feb. 25	(9:00 a.m.)	.028	12.5	49
Apr. 8	(11:55 a.m.)	.096	43	52
May 19	(9:20 a.m.)	.023	10	67
June 23	(8:00 a.m.)	.016	7.1	

SPRING - ETIENNE LEJEUNE

Location.- Lat. $34^{\circ}30'50''$, long. $119^{\circ}47'20''$, about 0.7 mile north of Painted Caye.

Altitude.- About 2,650 feet, from topographic map.

Description.- Seeps in stream channel impounded by small concrete dam.
Discharge measured above upper diversion dam.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.	: °F
Feb. 8, 1949		: 0.0014	: 0.65	:
Apr. 11	(9:50 a.m.)	: .0019	: .86	:
May 23	(10:50 a.m.)	: .0028	: 3.9	:
June 23	(8:25 a.m.)	: No flow	: No flow	:
Aug. 12	(9:10 a.m.)	: No flow	: No flow	:
Sept. 29	(8:35 a.m.)	: No flow	: No flow	:
Nov. 1	(9:30 a.m.)	: No flow	: No flow	:
Dec. 20	(8:55 a.m.)	: .0066	: 2.9	: 42
Jan. 17, 1950	(9:30 a.m.)	: .092	: 41	: 44
Feb. 13	(1:50 p.m.)	: .011	: 4.3	:
Mar. 8	(11:45 a.m.)	: No flow	: No flow	:
Apr. 19	(11:30 a.m.)	: No flow	: No flow	:
May 18	(11:25 a.m.)	: No flow	: No flow	:
June 22	(10:40 a.m.)	: do	: do	:
Aug. 10	(11:20 a.m.)	: do	: do	:
Oct. 24	(8:20 a.m.)	: do	: do	:
Nov. 16	(8:30 a.m.)	: do	: do	:
Dec. 20	(10:20 a.m.)	: do	: do	:
Jan. 18, 1951	(8:00 a.m.)	: do	: do	:
Feb. 21	(7:45 a.m.)	: do	: do	:
Mar. 20	(9:15 a.m.)	: do	: do	:
Apr. 23	(7:00 a.m.)	: do	: do	:
June 13	(8:05 a.m.)	: do	: do	:
July 31	(8:35 a.m.)	: do	: do	:
Sept. 12	(1:00 p.m.)	: do	: do	:
Oct. 22	(9:15 a.m.)	: do	: do	:
Nov. 5	(10:40 a.m.)	: do	: do	:
Dec. 6	(9:50 a.m.)	: .012	: 5.4	: 44
Jan. 9, 1952	(8:40 a.m.)	: .028	: 12.6	: 38
Feb. 25	(9:20 a.m.)	: .019	: 8.5	: 45
Apr. 8	(11:40 a.m.)	: .15	: 67	: 52
May 19	(9:15 a.m.)	: .051	: 23	: 60
June 23	(7:45 a.m.)	: .0081	: 3.64	:

SPRING - PAINTED CAVE - MUTUAL WATER COMPANY

Location.-Lat. 34°30'30", long. 119°47'20", about 0.3 mile north of Painted Cave.

Altitude.- 2,590 feet, from topographic map.

Description.-Cemented pool on sandstone ledge in creek bed.

DATE	DISCHARGE		TEMP °F	REMARKS
	Second-foot	Gals. per min.		
1948				
June 19 (estimate)	0.009 to .011	4 to 5		
Oct. 26	.0052	2.33		
1949				
Feb. 9	.0096	4.3		
Apr. 11 (9:05 a.m.)	.0045	2.0		
May 23 (10:10 a.m.)	.0066	3.0		
June 23 (7:55 a.m.)	.00046	.21		
Aug. 12 (8:50 a.m.)	No flow			
Sept. 29 (8:00 a.m.)	do			
Nov. 1 (9:05 a.m.)	do			
Dec. 20 (8:20 a.m.)	.016	7.1	43	
1950				
Jan. 17 (8:45 a.m.)	.099	44	47	
Feb. 13 (1:10 p.m.)	.042	19	52	
Mar. 7 (11:15 a.m.)	.002	.90	50	
Apr. 19 (11:00 a.m.)	No flow			
May 18 (11:00 a.m.)	.002	.90	50	
June 22 (10:35 a.m.)	No flow			
Aug. 10 (11:00 a.m.)	do			
Oct. 24 (7:45 a.m.)	do			
Nov. 16 (8:15 a.m.)	do			
Dec. 20 (10:15 a.m.)	do			
1951				
Jan. 18 (7:45 a.m.)	do			
Feb. 21 (7:35 a.m.)	do			
Mar. 20 (9:00 a.m.)	do			
Apr. 23 (6:55 a.m.)	do			
June 13 (8:20 a.m.)	do			station below
July 31 (8:25 a.m.)	do			1.07 gpm being pumped from/
Sept. 12 (12:35 p.m.)	do			.70 " " " "
Oct. 22 (9:25 a.m.)	do			.80 " " " "
Nov. 5 (10:20 a.m.)	do			Pump idle.
Dec. 6 (9:30 a.m.)	.046	21	44	
1952				
Jan. 9 (8:20 a.m.)	.14	62	39	
Feb. 25 (8:50 a.m.)	.040	18	47	
Apr. 8 (11:30 a.m.)	.20	88	54	
May 19 (9:00 a.m.)	.033	15	60	
June 23 (7:30 a.m.)	.022	10		

SPRING - E. T. OGRAM

Location.- Lat. 34°30'20", long. 119°47'10" at Painted Cave.

Altitude.- About 2,560 feet, from topographic map.

Description.- Uncontrolled seepage from fractures in sandstone ledge on valley side. Discharge measured at end of 3-inch pipe.

DATE	DISCHARGE		TEMP. °F.
	: Second-feet :	: Gals. per min. :	
June 19, 1948 (estimated)	: 0.001 :	: 0.5 :	:
Feb. 9, 1949	: .0039 :	: 4.0 :	:
Apr. 11 (10:50 a.m.)	: .033 :	: 15 :	:
May 23 (9:55 a.m.)	: .033 :	: 15 :	:
June 23 (8:40 a.m.)	: .013 :	: 5.9 :	: 58
Aug. 12 (9:25 a.m.)	: .0011 :	: .48 :	: 58
Sept. 29 (8:45 a.m.)	: .00041 :	: .18 :	:
Nov. 1 (10:00 a.m.)	: .0014 :	: .64 :	:
Dec. 20 (9:15 a.m.)	: .013 :	: 6.0 :	: 56
Jan. 17, 1950 (9:45 a.m.)	: .020 :	: 9.1 :	: 57
Feb. 13 (2:10 p.m.)	: .030 :	: 14 :	:
Mar. 7 (12:10 p.m.)	: .019 :	: 8.3 :	: 59
Apr. 19 (11:40 a.m.)	: .012 :	: 5.2 :	: 58
May 18 (11:40 a.m.)	: .0039 :	: 1.8 :	: 57
June 22 (11:10 a.m.)	: .0024 :	: 1.1 :	: 58
Aug. 10 (11:30 a.m.)	: .00084 :	: .4 :	: 60
Oct. 24 (8:30 a.m.)	: * No flow :	: No flow :	: Pump removed
Nov. 16 (8:50 a.m.)	: .00096 :	: .4 :	: 55
Dec. 20 (10:35 a.m.)	: .0013 :	: .6 :	: 58
Jan. 18, 1951 (8:25 a.m.)	: .0022 :	: .97 :	: 56
Feb. 21 (3:15 a.m.)	: .0015 :	: .7 :	:
Mar. 20 (9:30 a.m.)	: .0024 :	: 1.1 :	:
Apr. 23 (7:25 a.m.)	: .0016 :	: .7 :	:
June 13 (8:30 a.m.)	: .0013 :	: .60 :	: 56
July 31 (9:00 a.m.)	: No flow :	: No flow :	:
Sept. 12 (12:30 p.m.)	: do :	: do :	:
Oct. 22 (9:30 a.m.)	: do :	: do :	:
Nov. 5 (10:15 a.m.)	: do :	: do :	:
Dec. 6 (10:15 a.m.)	: .0031 :	: 1.38 :	:
Jan. 9, 1952 (9:20 a.m.)	: .015 :	: 6.5 :	: 56
Feb. 25 (9:45 a.m.)	: .053 :	: 24 :	: 58
Apr. 8 (12:35 p.m.)	: .072 :	: 32 :	: 58
May 19 (9:40 a.m.)	: .046 :	: 21 :	: 59
June 23 (8:10 a.m.)	: .027 :	: 12 :	:

* Spring Dry. Pump installed on pool 50' below spring; pumping water to station #4.

SPRING - SAM NUCKOLS

Location.- Lat. 34°30'20", long. 119°47'10", at Painted Cave

Altitude.- About 2,360 feet, from topographic map.

Description.- Seeps in landslide on valley side. Discharge measured at end of tile pipe to concrete settling box. -

DATE	DISCHARGE		TEMP. °F
	: Second-feet	: Gals. per min:	
Oct. 26, 1948	: 0.0056	: 2.5	:
Feb. 9, 1949	: .017	: 7.8	:
Apr. 11, (11:10 a.m.)	: .021	: 9.2	:
May 23 (9:30 a.m.)	: .029	: 13	:
June 23 (9:10 a.m.)	: .019	: 8.6	:
Aug. 12 (9:45 a.m.)	: .0099	: 4.44	: 57
Sept 29 (9:05 a.m.)	: .0058	: 2.6	:
Nov. 1 (10:25 a.m.)	: .0050	: 2.2	: 61
Dec. 20 (9:40 a.m.)	: .019	: 8.7	: 55
Jan. 17, 1950 (10:10 a.m.)	: .025	: 11	: 54
Feb. 9 (9:45 a.m.)	: .022	: 10	: 54
Mar. 8 (1:10 p.m.)	: .019	: 8.6	: 55
Apr. 19 (noon)	: .012	: 5.6	: 55
May 18 (12:10 p.m.)	: .010	: 4.6	:
June 22 (11:30 a.m.)	: .0080	: 3.6	: 57
Aug. 10 (11:45 a.m.)	: .0038	: 1.7	: 58
Oct. 24 (8:55 a.m.)	: .0024	: 1.1	: 61
Nov. 15 (9:05 a.m.)	: .0039	: 1.7	: 58
Dec. 20 (10:50 a.m.)	: .0056	: 2.6	: 58
Jan. 18, 1951 (8:45 a.m.)	: .0070	: 3.1	: 57
Feb. 21 (8:35 a.m.)	: .0061	: 2.7	: 56
Mar. 20 (9:45 a.m.)	: .0088	: 4.0	:
Apr. 23 (7:40 a.m.)	: .0058	: 2.6	:
June 13 (8:45 a.m.)	: .0032	: 1.44	: 57
July 31 (9:10 a.m.)	: .0014	: .65	: 62
Sept. 12 (12:20 p.m.)	: .00070	: .31	: 62
Oct. 22 (9:45 a.m.)	: .00040	: .18	: 60
Nov. 5 (10:00 a.m.)	: .00018	: .08	: 60
Dec. 6 (10:40 a.m.)	: .014	: 6.2	: 57
Jan. 9, 1952 (9:35 a.m.)	: .015	: 6.8	: 54
Feb. 25 (10:10 a.m.)	: .013	: 6.0	: 56
Apr. 8 (12:55 p.m.)	: .012	: 5.4	: 55
May 19 (9:55 a.m.)	: .0066	: 2.94	: 56
June 23 (8:30 a.m.)	: .0074	: 3.34	:

SPRING - SAM NUCKOLS

Location.- Lat. 34°30'10", long. 119°47'10", at Painted Cave.

Altitude.- About 2,300 feet, from topographic map.

Description.- Deep in alluvium on valley side. Discharge measurements at overflow from bottling plant.

DATE	DISCHARGE		TEMP. °F
	: Second-feet :	: Gals. per min. :	
June 19, 1948	: .0048 :	: 2.14 :	
Oct. 26,	: .0018 :	: .8 :	
Feb. 16, 1949	: .012 :	: 5.4 :	
Apr. 11, (11:00 a.m.)	: .0084 :	: 3.8 :	
May 23 (9:15 a.m.)	: .0073 :	: 3.3 :	
June 23 (8:45 a.m.)	: .0095 :	: 4.26 :	59
Aug. 12 (9:35 a.m.)	: * .0038 :	: * 1.69 :	57
Sept 29 (8:55 a.m.)	: No flow :	: No flow :	
Nov. 1 (10:15 a.m.)	: No flow :	: No flow :	
Dec. 20 (9:30 a.m.)	: No flow :	: No flow :	
Jan. 17, 1950 (10:00 a.m.)	: No flow :	: No flow :	
Feb. 14 (9:15 a.m.)	: No flow :	: No flow :	
Mar. 8 (12:55 p.m.)	: No flow :	: No flow :	
Apr. 19 (11:50 a.m.)	: .014 :	: 6.4 :	58
May 18 (11:50 a.m.)	: .014 :	: 6.2 :	55
June 22 (11:20 a.m.)	: .0089 :	: 4.0 :	58
Aug. 10 (11:35 a.m.)	: No flow :	: No flow :	
Oct. 24 (8:45 a.m.)	: No flow :	: No flow :	
Nov. 16 (8:55 a.m.)	: .00038 :	: .2 :	52
Dec. 20 (10:40 a.m.)	: .0063 :	: 2.8 :	59
Jan. 18, 1951 (8:35 a.m.)	: .0032 :	: 1.4 :	55
Feb. 21 (8:25 a.m.)	: .0042 :	: 1.9 :	51
Mar. 20 (9:35 a.m.)	: .0081 :	: 3.7 :	
Apr. 23 (7:30 a.m.)	: .0095 :	: 4.3 :	
June 13 (8:35 a.m.)	: No flow :	: No flow :	
July 31 (9:05 a.m.)	: do :	: do :	
Sept. 12 (12:10 p.m.)	: .00032 :	: .15 :	67
Oct. 22 (9:35 a.m.)	: No flow :	: No flow :	
Nov. 5 (9:50 a.m.)	: do :	: do :	
Dec. 6 (10:30 a.m.)	: .00048 :	: .21 :	49
Jan. 9, 1952 (9:25 a.m.)	: No flow :	: No flow :	
Feb. 25 (10:00 a.m.)	: .010 :	: 4.33 :	
Apr. 8 (12:45 p.m.)	: .011 :	: 5.0 :	58
May 19 (9:45 a.m.)	: .0086 :	: 3.93 :	61
June 23 (8:20 a.m.)	: * .020 :	: 9.2 :	

* Reflects new curb built at station 10.

* Combined flow of springs 10 & 11

MARIA YGNACIO CREEK AT OLD SAN MARCOS PASS ROAD

Location.- Lat. $34^{\circ}27'40''$, $119^{\circ}47'40''$. At bridge on old San Marcos Pass Road about 0.6 mile above Goleta Foothill Road.

Altitude.- 140 feet, from topographic map.

Description.- Measurements made in natural creek channel at bridge.

Diversion.- One diversion about 1.3 miles above station.

DATE	DISCHARGE		TEMP.
	: Second-feet	: Gals. per min.:	
Oct. 27, 1948 (3:00 p.m.)	: 0.12	: 54	:
Nov. 15 (10:00 a.m.)	: No flow	: No flow	:
Dec. 13 (8:55 a.m.)	: No flow	: No flow	:
Jan. 3, 1949 (8:55 a.m.)	: .11	: 49	:
Mar. 17, (11:15 a.m.)	: .37	: 166	:
Apr. 11 (12:15 p.m.)	: .16	: 72	:
May 11 (11:55 a.m.)	: .14	: 62	:
June 13 (8:55 a.m.)	: .018	: 8.1	:
July 19 (12:40 p.m.)	: .022	: 9.9	: 66
Aug. 12 (10:30 a.m.)	: .0022	: 1.09	:
Sept. 15 (2:00 p.m.)	: Less than	:	:
	: .005	:	:
Nov. 1 (8:30 a.m.)	: .0030	: 1.35	: 55
Nov. 16 (11:55 a.m.)	: .0024	: 1.08	: 56
Dec. 14 (10:00 a.m.)	: .12	: 53	: 46
Jan. 10, 1950 (8:40 a.m.)	: .18	: 79	: 42
Feb. 13 (8:45 a.m.)	: .28	: 120	: 46
Mar. 8 (8:55 a.m.)	: .042	: 19	:
Apr. 19 (8:25 a.m.)	: .006	: 2.7	: 58
May 18 (9:40 a.m.)	: .006	: 2.7	: 55
June 19 (12 M.)	: .006	: 2.8	: 60
July 17 (8:20 a.m.)	: .063	: 31	: 63
Aug 10 (9:15 a.m.)	: .010	: 4.5	: 57
Oct. 24 (10:10 a.m.)	: .0008	: .4	: 64
Nov. 22 (7:50 a.m.)	: .16	: 74	: 60
Dec. 14 (8:45 a.m.)	: .14	: 65	: 58
Jan. 18, 1951 (9:45 a.m.)	: .19	: 87	: 53
Feb. 15 (12:10 p.m.)	: .20	: 88	: 52
Mar. 14 (11:00 a.m.)	: .16	: 73	: 59
Apr. 23 (8:15 a.m.)	: .014	: 6.3	:
June 13 (9:35 a.m.)	: .010	: 4.5	: 57
July 31 (10:00 a.m.)	: Pools	: Pools	:
Sept. 10 (12:50 p.m.)	: do	: do	:
Oct. 11 (12:30 p.m.)	: do	: do	:
Nov. 6 (11:15 a.m.)	: do	: do	:
Dec. 6 (11:10 a.m.)	: .050	: 22	: 50
Jan. 9, 1952 (9:30 a.m.)	: .40	: 180	: 47
Feb. 21 (12:25 p.m.)	: .45	: 203	: 58
Apr. 8 (10:30 a.m.)	: 1.37	: 616	: 62
May 15 (1:35 p.m.)	: .44	: 197	: 76
June 23 (9:25 a.m.)	: .32	: 144	:

UNNAMED CREEK NEAR HOBBO ROCK

Location.- Lat. $34^{\circ}30'20''$, long. $119^{\circ}48'10''$, at falls about 200 yards upstream from highway 150 near Hobbo Rock.

Altitude.- About 1,700 feet, from topographic map.

Description.- Measuring site in stream channel.

Diversions.- No known diversions above station.

DATE	DISCHARGE		TEMP. °F
	: Second-feet	: Gals. per min.	
July 20, 1948	: 0.021	: 9.4	:
Feb. 8, 1949	: .011	: 5.1	:
Apr. 11, (8:30 a.m.)	: .042	: 19	:
May 23 (11:30 a.m.)	: .061	: 27	:
June 23 (10:05 a.m.)	: .033	: 14.8	:
Aug. 11 (11:45 a.m.)	: .026	: 11.7	: 60
Sept. 30 (11:05 a.m.)	: .015	: 6.9	:
Nov. 1 (11:00 a.m.)	: .013	: 5.9	:
Dec. 20 (10:30 a.m.)	: .041	: 18	: 44
Jan. 17, 1950 (10:45 a.m.)	: .054	: 24	: 49
Feb. 14 (10:15 a.m.)	: .054	: 24	: 50
Mar. 8 (1:55 p.m.)	: .040	: 18	: 55
Apr. 18 (11:40 a.m.)	: .036	: 16	: 59
May 15 (11:15 a.m.)	: .036	: 16	: 53
June 22 (11:55 a.m.)	: .015	: 7.0	: 59
Aug. 9 (8:35 a.m.)	: .013	: 8.1	: 59
Oct. 25 (11:15 a.m.)	: .015	: 6.8	: 59
Nov. 16 (9:30 a.m.)	: .024	: 10.7	: 51
Dec. 20 (11:15 a.m.)	: .022	: 9.8	: 54
Jan. 30, 1951 (9:15 a.m.)	: .035	: 16	: 45
Feb. 13 (12:50 p.m.)	: .023	: 10.3	:
Mar. 20 (10:10 a.m.)	: .025	: 11.1	:
Apr. 16 (12:25 p.m.)	: .029	: 13	:
June 13 (11:00 a.m.)	: .024	: 11	: 57
July 30 (10:30 a.m.)	: .0084	: 3.77	: 65
Aug. 27 (11:00 a.m.)	: .0088	: 3.94	: 64
Sept. 18 (7:30 p.m.)	: .0011	: .50	:
Sept. 26 (10:30 a.m.)	: .012	: 5.2	:
Oct. 25 (11:00 a.m.)	: .025	: 11	: 53
Nov. 5 (11:00 a.m.)	: .020	: 9	: 58
Dec. 13 (10:20 a.m.)	: .033	: 15	: 48
Feb. 25, 1952 (10:50 a.m.)	: .065	: 29	: 58
Apr. 8 (1:20 p.m.)	: .10	: 46	: 55
May 19 (10:15 a.m.)	: .072	: 32	:
June 19 (10:40 a.m.)	: .050	: 22	: 61

SPRING - SAM NUCKOLS

Location.- Lat. 34°30'10", long. 119°47'10", at Painted Cave.

Altitude.- About 2,300 feet, from topographic map.

Description.- Two concrete curbed seeps on hillside 8 feet apart. Measurement of both springs at end of overflow pipes. Not used at present time. Beginning May 23, 1949 inflow to cistern measured.

DATE		DISCHARGE				TEMP. °F
		Second-feet		Gals. per min.		
		North Spr.	South Spr.	North Spr.	South Spr.	
Oct. 25, 1948		0.00060	0.00071	0.27	0.32	
Feb. 9, 1949		.00091	.0018	.41	.81	
Apr. 11	(11:25 a.m.):	.0010	.0028	.45	1.3	
May 23	(9:40 a.m.):	.012	-	5.3	-	
June 23	(8:55 a.m.):	.0049	-	2.19	-	
Aug. 12	(9:38 a.m.):	.0022	-	1.26	-	
Sept. 29	(9:00 a.m.):	.0056	-	2.51	-	
Nov. 1	(10:20 a.m.):	.0047	-	2.1	-	67
Dec. 20	(9:55 a.m.): a	.0027	-	1.2	-	
Jan. 17, 1950	(10:20 a.m.): a	.0031	-	1.4	-	57
Feb. 14	(9:30 a.m.):	.018	-	8.2	-	56
Mar. 8	(1:00 p.m.):	.020	-	8.8	-	59
Apr. 19	(11:55 a.m.):	.0098	-	4.4	-	60
May 18	(12 M):	.011	-	4.8	-	55
June 22	(11:25 a.m.):	.0051	-	2.3	-	56
Aug. 10	(11:40 a.m.):	.0034	-	1.6	-	69
Oct. 23	(8:50 a.m.):	.0025	-	1.1	-	60
Nov. 16	(9:00 a.m.):	.0035	-	1.6	-	57
Dec. 20	(10:45 a.m.):	.0046	-	2.1	-	63
Jan. 18, 1951	(8:40 a.m.):	.0060	-	2.7	-	53
Feb. 21	(8:30 a.m.):	.0041	-	1.8	-	56
Mar. 20	(9:40 a.m.):	.0021	-	3.7	-	
Apr. 23	(7:35 a.m.):	.0053	-	2.8	-	
June 13	(8:50 a.m.):	.0012	-	.54	-	59
July 31	(9:05 a.m.):	.00080	-	.36	-	72
Sept. 12	(12:15 p.m.):	.00054	-	.25	-	83
Oct. 22	(9:40 a.m.):	.0012	-	.54	-	73
Nov. 5	(9:55 a.m.):	.00058	-	.26	-	81
Dec. 6	(10:35 a.m.):	.0043	-	1.97	-	51
Jan. 9, 1952	(9:30 a.m.):	.0033	-	1.51	-	
Feb. 25	(10:00 a.m.):	.0019	-	.84	-	64
Apr. 8	(12:50 p.m.):	.0021	-	1.22	-	56
May 19	(9:50 a.m.):	.0024	-	1.07	-	
June 23	(8:22 a.m.): b	.011	-	4.80	-	

a possible unknown wastage.

b New concrete curb built since last month.

SPRING - FOSTER GLEN PARK, COUNTY OF SANTA BARBARA

Location.- Lat. $34^{\circ}30'20''$, long. $119^{\circ}48'20''$, about 0.2 mile north of Highway 150.

Altitude.- About 1,720 feet, from topographic map.

Description.- Bricked pool on sandstone ledge in creek bottom. Discharge measurements at inflow to storage tank. Some flow over earth collecting dam, but measured and included in the discharge.

DATE	DISCHARGE		TEMP.
	: Second-feet :	: Gals. per min. :	: °F :
July 19, 1948	: 0.0016 :	: 0.7 :	:
Feb. 10, 1949	: .0029 :	: 1.3 :	:
Apr. 13 (12-noon)	: .0041 :	: 1.8 :	:
May 23 (1:20 p.m.)	: .0056 :	: 2.5 :	:
June 23 (10:45 a.m.)	: .0014 :	: .63 :	:
Aug. 11 (11:30 a.m.)	: .0013 :	: .58 :	:
Sept 30 (11:20 a.m.)	: No flow :	: No flow :	:
Nov. 1 (11:45 a.m.)	: .000056 :	: .025 :	:
Dec. 20 (11:00 a.m.)	: .0027 :	: 1.2 :	:
Jan. 17, 1950 (11:15 a.m.)	: .0017 :	: .74 :	: 47
Feb. 14 (10:40 a.m.)	: .0019 :	: .85 :	: 51
Mar. 8 (2:30 p.m.)	: .0026 :	: 1.1 :	: 55
Apr. 18 (11:20 a.m.)	: .00049 :	: .22 :	: 68
May 15 (11:40 a.m.)	: .00031 :	: .14 :	: 55
June 22 (12:10 a.m.)	: .00024 :	: .11 :	: 60
Aug. 9 (8:55 a.m.)	: .00052 :	: .23 :	: 67
Oct. 25 (10:55 a.m.)	: .00043 :	: .02 :	: 61
Nov. 16 (10:00 a.m.)	: .0011 :	: .50 :	: 53
Dec. 20 (11:35 a.m.)	: .0012 :	: .52 :	: 58
Jan. 30, 1951 (10:55 a.m.)	: .0020 :	: .90 :	: 50
Feb. 13 (1:30 p.m.)	: .0018 :	: .82 :	:
Mar. 20 (10:30 a.m.)	: .0017 :	: .77 :	:
Apr. 16 (1:00 p.m.)	: .0018 :	: .79 :	:
June 13 (11:25 a.m.)	: .00086 :	: .39 :	: 59
July 30 (10:15 a.m.)	No overflow at spring or at tanks		
Aug. 27 (11:25 a.m.)	do		
Sept. 26 (10:15 a.m.)	: .00023 :	: .10 :	: 58
Oct. 25 (10:35 a.m.)	: .00018 :	: .08 :	: 63
Nov. 5 (11:20 a.m.)	: .00036 :	: .16 :	: 57
Dec. 13 (10:40 a.m.)	: .0020 :	: .89 :	: 50
Feb. 25, 1952 (11:10 a.m.)	: .0080 :	: 3.57 :	: 51
Apr. 8 (1:35 p.m.)	: .021 :	: 9.4 :	: 54
May 19 (10:35 a.m.)	: .0078 :	: 3.48 :	: 62
June 19 (11:05 a.m.)	: .0039 :	: 1.76 :	: 61

SPRING - KINEVAN FILING - FOREST SERVICE

Location.- Lat. 34°30'20", long. 119° 49'50", about 0.5 mile southwest of Highway 150.

Altitude.- About 2,300 feet, from topographic Map.

Description.- Stone-curbed pool in alluvium on hillside. Discharge measured at inflow to storage tank.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.	: °F
June 15, 1948		: 0.0022	: 1.0	:
Feb. 16, 1949		: .0025	: 1.1	:
Apr. 13	(10:40 a.m.)	: .0032	: 1.4	:
May 24	(10:40 a.m.)	: .0032	: 1.4	:
June 24	(8:15 a.m.)	: .0024	: 1.08	:
Aug. 11	(8:15 a.m.)	: .0018	: .80	: 59
Sept. 30	(8:20 a.m.)	: .0013	: .58	:
Nov. 28	(8:20 a.m.)	: .0016	: .73	: 58
Dec. 28	(2:25 p.m.)	: .0017	: .77	: 59
Jan. 26, 1950	(12:15 p.m.)	: .0021	: .94	: 59
Feb. 17	(11:30 a.m.)	: .0046	: 2.1	:
Mar. 9	(9:45 a.m.)	: .0025	: 1.1	: 59
Apr. 18	(9:00 a.m.)	: .0019	: .86	: 60
May 15	(9:00 a.m.)	: .0020	: .89	: 57
June 22	(8:00 a.m.)	: .0017	: .73	: 60
Aug. 1	(9:30 a.m.)	: .0013	: .60	: 60
Aug. 22	(10:20 a.m.)	: * No meas.	: No meas.	: *Union frozen
Dec. 1	(10:45 a.m.)	: .0053	: 2.4	: 53
Dec. 21	(9:15 a.m.)	: .0019	: .87	: 58
Jan. 30, 1951	(11:55 a.m.)	: .0052	: 2.3	: 44
Feb. 23	(7:55 a.m.)	: .0025	: 1.1	: 52
Mar. 22	(9:30 a.m.)	: .0016	: .72	:
Apr. 19	(9:15 a.m.)	: .0014	: .63	:
June 15	(8:35 a.m.)	: .0013	: .59	: 62
July 30	(7:45 a.m.)	: .0015	: .68	: 65
Aug. 27	(9:00 a.m.)	: .0019	: .83	: 70
Sept. 26	(8:25 a.m.)	: .0028	: 1.25	: 58
Oct. 25	(8:00 a.m.)	: .0028	: 1.24	: 45
Nov. 6	(8:30 a.m.)	: .0027	: 1.22	: 61
Feb. 26, 1952	(9:30 a.m.)	: .0019	: .87	: 57
Apr. 9	(10:45 a.m.)	: .0036	: 1.60	: 56
May 16	(7:25 a.m.)	: .0028	: 1.26	: 59
June 19	(8:20 a.m.)	: .00093	: .42	: 58

SPRING - TOM KINEVAN

Location.- Lat. $34^{\circ}30'30''$, long. $119^{\circ}49'40''$, about 0.3 mile southwest of Highway 150.

Altitude.- About 2,230 feet, from topographic map.

Description.- Dug pit in alluvial wash below sandstone ledge. Discharge measured in pipe line to storage tank.

DATE	DISCHARGE		TEMP. °F
	: Second-feet	: Gals. per min.	
June 15, 1948	: 0.0074	: 3.3	:
Feb. 16, 1949	: .0076	: 3.4	:
Apr. 13 (10:20 a.m.)	: .0092	: 4.1	:
May 24 (10:30 a.m.)	: .0090	: 4.0	:
June 24 (8:00 a.m.)	: .0077	: 3.44	: 58
Aug. 11 (8:30 a.m.)	: .0075	: 3.35	: 59
Sept 30 (8:05 a.m.)	: .0051	: 2.27	:
Nov. 28 (8:05 a.m.)	: .0051	: 2.3	: 59
Dec. 28 (2:05 p.m.)	: .0052	: 2.4	: 59
Jan. 26, 1950 (noon)	: .0049	: 2.2	: 58
Feb. 17 (11:20 a.m.)	: .0027	: 1.2	:
Mar. 9 (9:35 a.m.)	: .0059	: 2.6	: 59
Apr. 18 (8:30 a.m.)	: .0041	: 1.8	: 57
May 15 (8:45 a.m.)	: .0045	: 2.0	: 56
June 22 (8:25 a.m.)	: .0044	: 2.0	: 59
Aug. 1 (7:45 a.m.)	: .0053	: 2.4	: 60
Aug. 22 (7:55 a.m.)	: .0040	: 1.8	: 61
Oct. 25 (8:20 a.m.)	: .0051	: 2.3	: 61
Dec. 1 (10:30 a.m.)	: .0044	: 2.0	: 57
Dec. 21 (9:00 a.m.)	: .0045	: 2.0	: 60
Jan. 30, 1951 (11:35 a.m.)	: .0049	: 2.2	: 59
Feb. 23 (7:40 a.m.)	: .0045	: 2.0	: 57
Mar. 22 (9:15 a.m.)	: .0044	: 2.0	:
Apr. 19 (9:30 a.m.)	: .0042	: 1.9	:
June 15 (8:25 a.m.)	: .0040	: 1.78	: 59
July 30 (7:30 a.m.)	: .0038	: 1.72	: 61
Aug. 27 (8:50 a.m.)	: .0038	: 1.72	: 61
Sept. 26 (8:10 a.m.)	: .0037	: 1.65	: 62
Oct. 25 (7:50 a.m.)	: .0038	: 1.72	: 60
Nov. 6 (8:15 a.m.)	: .0038	: 1.70	: 61
Dec. 13 (8:00 a.m.)	: .0040	: 1.79	: 59
Feb. 26, 1952 (9:25 a.m.)	: .0088	: 3.95	: 59
Apr. 9 (10:30 a.m.)	: .012	: 5.4	: 60
May 16 (7:40 a.m.)	: .010	: 4.54	: 59
June 19 (8:05 a.m.)	: .0086	: 3.85	: 62

SPRING - C. R. Holmes, Jr., et al

Location.- Lat. 34°30'20", long. 119°48'40", at Highway 150 near San Marcos Pass.

Altitude.- About 1,900 feet, from topographic map.

Description.- Seeps in alluvium along creek bed; one enclosed in concrete box. Discharge measured at takeoff from pipe line below concrete box.

DATE	DISCHARGE		TEMP.
	: Second-feet	: Gals. per min.:	: °F
July 30, 1948	: 0.011	: 4.8	:
Feb. 16, 1949	: .011	: 5.0	:
Apr. 13 (11:30 a.m.)	: .013	: 5.6	:
May 23 (1:52 p.m.)	: .012	: 5.5	:
June 23 (11:30 a.m.)	: .014	: 6.3	: 62
Aug. 11 (11:10 a.m.)	: .012	: 5.3	: 60
Sept. 30 (11:45 a.m.)	: .011	: 4.9	:
Nov. 1 (11:30 a.m.)	: .010	: 4.7	: 62
Dec. 20 (11:25 a.m.)	: .012	: 5.3	: 56
Jan. 17, 1950 (11:40 a.m.)	: .012	: 5.4	: 54
Feb. 14 (11:06 a.m.)	: .013	: 5.8	: 51
Mar. 9 (12:45 p.m.)	: .013	: 5.8	: 60
Apr. 18 (11:15 a.m.)	: .014	: 6.2	: 62
May 15 (12:10 p.m.)	: .0069	: 3.1	: 58
June 22 (12:35 p.m.)	: .012	: 5.4	:
Aug. 9 (9:25 a.m.)	: .011	: 4.9	: 61
Oct. 25 (11:45 a.m.)	: .011	: 4.8	: 60
Nov. 16 (10:10 a.m.)	: .012	: 5.5	: 57
Dec. 20 (11:55 a.m.)	: .011	: 4.7	: 59
Jan. 30, 1951 (11:15 a.m.)	: .011	: 5.1	: 52
Feb. 15 (1:00 p.m.)	: .012	: 5.2	: 56
Mar. 20 (10:50 a.m.)	: .012	: 5.3	:
Apr. 19 (10:05 a.m.)	: .0089	: 4.0	:
June 13 11:50 a.m.)	: .010	: 4.5	:
July 30 (9:45 a.m.)	: .0063	: 2.82	63 Plug off at "Y"
Aug. 27 (11:20 a.m.)	: .0068	: 3.06	: 63 do
Sept. 26 (10:55 a.m.)	: .0062	: 2.79	: 61 do
Oct. 25 (10:20 a.m.)	: .0057	: 2.55	: 59 do
Nov. 5 (11:35 a.m.)	: .0060	: 2.71	: 61 do
Dec. 13 (11:00 a.m.)	: .0071	: 3.18	: 57 do
Feb. 25, 1952 (11:25 a.m.)	: .0064	: 2.86	: 59 do
Apr. 8 (1:50 p.m.)	: .0071	: 3.20	: 57 do
May 19 (10:45 a.m.)	: .0071	: 3.20	: 62 do
June 19 (11:20 a.m.)	: .0054	: 2.42	: 62 do

SAN JOSE CREEK AT HOLMES' PLACE, SAN MARCOS PASS

Location.- Lat. 34°30'10", long. 119°48'40", at Holmes' Place (Old Spaulding place) about 300 feet south of Highway 150 and about 1.0 mile northwest of the San Marcos Trout Club.

Altitude.- 1,890 feet, from topographic map.

Description.- Measurements made at next to the lowest dam below Spring #18.

Diversion.- Several diversions above and particularly Spring #18 which occurs in creek channel.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.	: °F
July 30, 1948	(estimated)	: 0.016-.018:	7-8	:
Feb. 16, 1949		: .017 :	7.5	:
Apr. 13	(11:25 a.m.)	: .027 :	12	:
May 23	(1:45 a.m.)	: .18 :	83	:
June 23	(11:20 a.m.)	: .028 :	12.4	:
Aug. 11	(11:00 a.m.)	: .026 :	11.9	: 56
Sept. 30	(11:30 a.m.)	: .023 :	10.2	:
Nov. 1	(11:15 a.m.)	: .023 :	10.3	: 55
Dec. 20	(11:20 a.m.)	: .17 :	77	: 44
Jan. 17, 1950	(11:30 a.m.)	: .44 :	200	: 48
Feb. 14	(10:55 a.m.)	: .32 :	140	: 48
Mar. 9	(12:30 p.m.)	: .030 :	13	: 52
Apr. 18	(11:05 a.m.)	: .018 :	8.1	: 59
May 15	(12 M.)	: .037 :	17	:
June 22	(12:25 p.m.)	: .015 :	6.7	: 56
Aug. 9	(9:10 a.m.)	: .012 :	5.7	: 59
Oct. 25	(11:30 a.m.)	: .020 :	8.8	: 57
Nov. 16	(10:05 a.m.)	: .028 :	12.8	: 50
Dec. 20	(11:45 a.m.)	: .025 :	11.2	: 52
Jan. 30, 1951	(11:05 a.m.)	: .034 :	15	: 46
Feb. 15	(12:30 p.m.)	: .026 :	11.9	: 49
Mar. 20	(10:40 a.m.)	: .035 :	16	:
Apr. 19	(9:55 a.m.)	: .034 :	15	:
June 13	(11:40 a.m.)	: .025 :	11	: 56
July 30	(9:40 a.m.)	: .016 :	7.2	: 64
Aug. 27	(11:15 a.m.)	: .019 :	8.5	: 62
Sept. 26	(10 50 a.m.)	: .020 :	9.0	: 59
Oct. 25	(10:15 a.m.)	: .028 :	12	: 53
Nov. 5	(11:30 a.m.)	: .020 :	8.9	: 55
Dec. 13	(10:55 a.m.)	: .028 :	12.5	: 45
Feb. 25, 1952	(11:20 a.m.)	: .12 :	52	: 48
Apr. 8	(2:00 p.m.)	: 2.55 :	1120	: 52
May 19	(11:00 a.m.)	: .080 :	36	: 60
June 19	(11:10 a.m.)	: .033 :	15	: 61

SPRING - SAN MARCOS TROUT CLUB

Location.- Lat. $34^{\circ}29'40''$, long. $119^{\circ}48'30''$, about 0.5 mile west of Highway 150.

Altitude.- About 1,700 feet, from topographic map.

Description.- Wood-curbed seep in alluvium of creek bottom. Discharge measured at inflow from $3/4$ -inch pipe line to settling box above orifices 1, 2 and 3 of Spring #21. After Feb. 10, 1949 discharge measured at storage tank and represents the combined flow of Springs 20 and 21.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.	: °F
July 30, 1948		: 0.0033	: 1.5	:
Feb. 10, 1949		: .0033	: 1.5	:
Apr. 11,	(11:45 a.m.)	: .016	: 7.3	:
May 24	(1:15 p.m.)	: .033	: 15	:
June 23	(9:45 a.m.)	: .013	: 5.9	: 74
Aug. 11	(12:10 p.m.)	: .010	: 4.69	: 72
Sept. 29	(9:30 a.m.)	: .0082	: 3.7	:
Nov. 1	(8:10 a.m.)	: .0084	: 3.8	: 69
Nov. 28	(11:10 a.m.)	: .0103	: 4.6	: 66
Dec. 14	(9:40 a.m.)	: .020	: 9.0	: 55
Jan. 10, 1950	(8:15 a.m.)	: .013	: 5.7	: 42
Feb. 13	(8:15 a.m.)	: .041	: 18	: 55
Mar. 8	(8:25 a.m.)	: .020	: 8.8	: 55
Apr. 19	(8:05 a.m.)	: .014	: 6.4	: 59
May 18	(12:30 p.m.)	: .011	: 5.1	: 58
June 19	(12:20 P.M.)	: .011	: 4.9	: 78
July 17	(7:55 a.m.)	: .0088	: 3.9	: 60
Aug. 10	(7:55 a.m.)	: .0095	: 4.3	: 64
Oct. 24	(9:50 a.m.)	: .0083	: 3.7	: 68
Nov. 22	(7:25 a.m.)	: .010	: 4.6	: 67
Dec. 13	(8:30 a.m.)	: .010	: 4.5	: 57
Jan. 18, 1951	(9:15 a.m.)	: .012	: 5.4	: 52
Feb. 15	(12:30 p.m.)	: .0097	: 4.3	: 56
Mar. 14	(11:15 a.m.)	: .0097	: 4.3	: 82
Apr. 23	(8:00 a.m.)	: .010	: 4.6	:
June 13	(9:10 a.m.)	: .0076	: 3.41	: 56
July 31	(9:30 a.m.)	: .0052	: 2.34	: 73
Sept. 10	(1:30 p.m.)	: .0049	: 2.20	: 89
Oct. 22	(9:45 a.m.)	: .0052	: 2.34	: 56
Nov. 6	(10:50 a.m.)	: .0051	: 2.30	: 79
Dec. 6	(10:55 a.m.)	: .016	: 7.4	: 50
Jan. 9, 1952	(1:20 p.m.)	: .020	: 8.8	: 59
Feb. 25	(10:30 a.m.)	: .023	: 10	: 65
Apr. 8	(1:15 p.m.)	: .031	: 14	: 61
May 15	(2:00 p.m.)	: .021	: 10	: 62
June 23	(9:50 a.m.)	: .016	: 7.1	:

STATION 21

SPRING - SAN MARCOS TROUT CLUB

Location. - Lat. $34^{\circ}27'40''$, long. $119^{\circ}48'20''$, about 0.3 mile west of Highway 150.

Altitude. - About 1,450 feet, from topographic map.

Description. - Four wood-curbed seeps in alluvial wash on hillside. Discharge measured at inflow to storage tank less discharge of Spring #20. (See records for Spring 20).

DATE	DISCHARGE		TEMP.
	: Second-feet	: Gals. per min.:	
July 30, 1948	: 0.0071	: 3.2	:
Feb. 10, 1949	: .0024	: 4.2	:

SPRING - RISHI SINGH GREYWALL

Location.- Lat. $34^{\circ}29'40''$, long. $119^{\circ}49'00''$.

Altitude.- About 1,700 feet, from topographic map.

Description.- Concreted pool on sandstone in creek bed; water from fractures.
Discharge measured at overflow from storage tank.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.	: °F
June 17, 1948		: 0.0065	: 2.9	:
Feb. 10, 1949		: .0076	: 3.4	:
Apr. 13	(9:45 a.m.)	: Pumping	: Pumping	:
May 24	(12:45 p.m.)	: .012	: 5.2	:
June 24	(10:50 a.m.)	: .0068	: 3.03	: 59
Aug. 11	(10:30 a.m.)	: .0057	: 2.57	: 59
Sept. 30	(10:30 a.m.)	: Pumping	: Pumping	:
Nov. 28	(10:30 a.m.)	: .0062	: 2.8	: 57
Dec. 28	(1:05 p.m.)	: .0069	: 3.1	:
Jan. 26, 1950	(11:30 a.m.)	: Pumping	: Pumping	:
Feb. 17	(10:50 a.m.)	: .013	: 6.0	:
Mar. 9	(12:15 p.m.)	: Pumping	: Pumping	:
Apr. 18	(11:00 a.m.)	: do	: do	:
May 15	(10:45 a.m.)	: do	: do	:
June 22	(8:50 a.m.)	: .0051	: 2.3	: 59
Aug. 1	(10:10 a.m.)	: Pumping	: Pumping	:
Aug. 22	(9:30 a.m.)	: Pumping	: Pumping	:
Oct. 25	(10:35 a.m.)	: .0050	: 2.2	: 60
Dec. 1	(9:45 a.m.)	: .0056	: 2.5	: 58
Dec. 20	(9:45 a.m.)	: .0056	: 2.5	: 60
Jan. 30, 1951	(8:45 a.m.)	: .0060	: 2.7	:
Feb. 23	(10:45 a.m.)	: .0067	: 2.6	: 53
Mar. 21	(9:00 a.m.)	: Pumping	: Pumping	:
Apr. 19	(8:45 a.m.)	: .0054	: 2.4	:
June 15	(11:00 a.m.)	Pumped recently. Tank not full		
July 30	(9:30 a.m.)	Pump running		
Aug. 27	(10:35 a.m.)	do		
Sept. 26	(9:45 a.m.)	: .0052	: 2.31	: 60
Oct. 25	(9:55 a.m.)	: .0052	: 2.31	: 57
Nov. 6	(10:30 a.m.)	: .0050	: 2.24	: 60
Dec. 13	(9:50 a.m.)	Repairmen working on line to tank.		
Feb. 26, 1952	(12 M)	: .0088	: 3.95	: 59
Apr. 9	(10:05 a.m.)	: .018	: 8.2	: 60
May 16	(9:30 a.m.)	: .011	: 4.88	: 59
June 19	(10:00 a.m.)	Pump running; no overflow		

SAN JOSE CREEK 1.0 MILE ABOVE PATTERSON AVE. BRIDGE

Location.- Lat. 34°28'30", long. 119°48'20", directly below fork in creek and about 1 mile north of Patterson Ave.

Altitude.- About 250 feet, from topographic map.

Description.- Measuring site is just below forks in natural creek bed; and is reached by private dirt road along left bank of creek.

Diversions.- Several minor diversions above in Trout Club area.

Previous measurements.- 1943-1945

DATE		DISCHARGE		TEMP. °F
		: Second-feet	: Gals. per min.:	
Oct. 27, 1948	(4:00 p.m.)	: 0.07	: 31	:
Nov. 15	(10:25 a.m.)	: .12	: 54	:
Nov. 29	(8:55 a.m.)	: .062	: 28	:
Dec. 13	(9:10 a.m.)	: .16	: 74	:
Jan. 3, 1949	(9:20 a.m.)	: .32	: 144	:
Mar. 17	(10:40 a.m.)	: 1.03	: 462	:
Apr. 25	(11:05 a.m.)	: .25	: 112	:
May 11	(12:15 p.m.)	: .085	: 38	:
June 13	(8:15 a.m.)	: .26	: 119	:
July 19	(12:20 p.m.)	: .044	: 19.7	:
Aug. 12	(10:45 p.m.)	: .084	: 37.7	: 66
Sept. 15	(1:40 p.m.)	: .029	: 13.0	:
Oct. 17	(1:25 p.m.)	: .102	: 46	: 64
Nov. 16	(9:05 a.m.)	: .19	: 87	: 56
Dec. 14	(10:30 a.m.)	: .28	: 124	: 49
Jan. 10, 1950	(9:15 a.m.)	: .83	: 374	: 44
Feb. 13	(10:05 a.m.)	: 1.5	: 680	: 50
Mar. 8	(9:20 a.m.)	: .38	: 170	: 53
Apr. 13	(1:50 p.m.)	: .23	: 100	: 64
May 18	(9:15 a.m.)	: .24	: 110	: 55
June 19	(10:00 a.m.)	: .079	: 36	: 59
July 17	(9:00 a.m.)	: .14	: 65	: 63
Aug. 10	(8:30 a.m.)	: .013	: 5.8	:
Oct. 30	(8:30 a.m.)	: .21	: 95	: 63
Dec. 14	(9:15 a.m.)	: .19	: 85	: 60
Jan. 18, 1951	(10:30 a.m.)	: .42	: 187	: 53
Feb. 15	(11:45 a.m.)	: .21	: 96	: 53
Mar. 14	(10:30 a.m.)	: .29	: 129	: 59
Apr. 26	(12:30 p.m.)	: .22	: 97	:
June 13	(9:50 a.m.)	: .035	: 16	: 58
July 23	(12:45 p.m.)	: .022	: 10	: 65
Sept. 10	(12:30 p.m.)	: .017	: 7.6	: 71
Oct. 11	(12:20 p.m.)	: .00083	: .38	:
Nov. 6	(11:30 a.m.)	: .055	: 25	: 61
Dec. 6	(11:30 a.m.)	: .43	: 190	: 50
Feb. 21, 1952	(11:35 a.m.)	: .85	: 382	: 55
Mar. 14	(9:00 a.m.)	: 2.35	: 1055	: 49
Apr. 28	(10:10 a.m.)	: 6.5	: 2920	: 60
May 15	(1:10 p.m.)	: .41	: 182	: 69
June 4	(1:35 p.m.)	: .34	: 154	: 65

WEST FORK SAN JOSE CREEK ABOVE RESERVOIR

Location.— Lat. $34^{\circ}28'40''$, long. $119^{\circ}49'20''$. On Golden West Farms property, about 0.1 mile above reservoir and 1.7 miles above junction with San Jose Creek.

Altitude.— About 420 feet, from topographic map.

Description.— Measurements made by current meter in stream channel or by volumetric measurement at culvert. Reached by ranch road off of Patterson Ave. ^{/a}

Diversion.— No known diversions above station.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.:	: °F
Nov. 29, 1948	(10:00 a.m.)	: 0.24	: 108	:
Dec. 2	(10:05 a.m.)	: .25	: 112	:
Dec. 13	(9:40 a.m.)	: .26	: 117	:
Jan. 3, 1949	(3:30 p.m.)	: .33	: 150	:
Feb. 23	(3:00 p.m.)	: .27	: 120	:
Mar. 17	(10:00 a.m.)	: .34	: 153	:
Apr. 25	(11:30 a.m.)	: No flow	: No flow	:
May 11	(1:10 p.m.)	: No flow	: No flow	:
June 13	(7:50 a.m.)	: No flow	: No flow	:
July 19	(11:50 a.m.)	: .020	: 9.0	:
Aug. 12	(11:10 a.m.)	: .022	: 9.9	: 61
Sept. 15	(1:15 p.m.)	: .34	: 155	: 65
Oct. 17	(1:45 p.m.)	: .29	: 130	: 60
Nov. 16	(7:55 a.m.)	: .22	: 97	:
Dec. 14	(11:00 a.m.)	: No flow	: No flow	:
Jan. 10, 1950	(10:15 a.m.)	: No flow	: No flow	:
Feb. 13	(12:15 p.m.)	: .0050	: 2.2	: 51
Mar. 8	(9:55 a.m.)	: .030	: 13	: 53
Apr. 13	(1:25 p.m.)	: .014	: 6.3	: 59
May 18	(8:30 a.m.)	: .37	: 166	: 62
June 19	(9:10 a.m.)	: .26	: 117	: 64
July 17	(9:30 a.m.)	: .22	: 100	: 66
Aug. 10	(9:00 a.m.)	: .17	: 76	: 63
Oct. 30	(9:05 a.m.)	: .0015	: .7	: 62
Nov. 20	(11:15 a.m.)	: .00080	: .4	: 63
Dec. 14	(9:50 a.m.)	: .26	: 117	: 65
Jan. 22, 1951	(2:15 p.m.)	: .34	: 155	: 67
Feb. 15	(11:15 a.m.)	: .19	: 86	: 60
Mar. 14	(10:00 a.m.)	: .16	: 74	: 62
Apr. 26	(12 M.)	: .15	: 68	:

^{/a} A portion of measured runoff is from well operated in the headwater area.

WEST FORK SAN JOSE CREEK ABOVE RESERVOIR

DATE		DISCHARGE		TEMP	REMARKS
		Second- feet	Gals. per min.	°F :	
1951					
June 13	(10:20 a.m.)	.18	80	62	
July 23	(12:30 p.m.)	.16	74		
Sept. 10	(12:05 p.m.)	.18	80		
Oct. 11	(11:50 a.m.)	.14	65	65	
Nov. 6	(12 M)	.13	59	63	
Dec. 6	(12:05 p.m.)	.0034	1.50		Pump idle. Ranch foreman says well went dry 2 weeks ago.
1952					
Feb. 21	(12:10 p.m.)	No	flow		spillway
Mar. 14	(8:35 a.m.)	do			Reservoir full to crest of/
May 15	(12:35 p.m.)	.044	20	64	Pump believed to be idle.
June 4	(12:45 p.m.)	.021	9	60	do

SPRING - A. ARMANDO

Location.- Lat. 34°28'10", long. 119°49'40".

Altitude.- About 470 feet, from topographic map.

Description.- Cave in sandstone beds.

DATE	DISCHARGE		TEMP.
	Second-feet	Gals. per min.	°F
Oct. 18, 1948	No flow	No flow	:
Feb. 23, 1949	Almost dry:		:
Mar. 31 (11:55 a.m.)	No flow	No flow	:
May 26 (12:30 p.m.)	No flow	No flow	:
June 20 (7:20 a.m.)	No flow	No flow	:
July 19 (9:50 a.m.)	No flow	No flow	:
Aug. 16 (10:30 a.m.)	No flow	No flow	:
Sept. 15 (11:55 a.m.)	No flow	No flow	:
Oct. 12 (3:15 p.m.)	No flow	No flow	:
Nov. 29 (12:50 p.m.)	No flow	No flow	:
Dec. 13 (1:10 p.m.)	No flow	No flow	:
Jan. 23, 1950 (11:45 a.m.)	No flow	No flow	:
Mar. 17 (8:05 a.m.)	No flow	No flow	:
Apr. 20 (8:00 a.m.)	No flow	No flow	:
June 15 (10:20 a.m.)	No flow	No flow	:
Aug. 8 (9:30 a.m.)	No flow	No flow	:
Oct. 30 (10:00 a.m.)	No flow	No flow	:
Nov. 22 (8:45 a.m.)	No flow	No flow	:
Dec. 14 (10:20 a.m.)	No flow	No flow	:
Jan. 24, 1951 (8:20 a.m.)	No flow	No flow	:
Mar. 14 (9:35 a.m.)	No flow	No flow	:
Apr. 26 (11:25 a.m.)	No flow	No flow	:
June 12 (11:40 a.m.)	No flow	No flow	:
July 23 (11:20 a.m.)	No flow	No flow	:
Sept. 12 (9:55 a.m.)	No flow	No flow	:
Oct. 26 (10:00 a.m.)	No flow	No flow	:
Nov. 7 (7:40 a.m.)	No flow	No flow	:
Dec. 12 (10:10 a.m.)	No flow	No flow	:
Feb. 21, 1952 (8:30 a.m.)	No flow	No flow	:
May 7 (8:50 a.m.)	No flow	No flow	:
June 4 (11:00 a.m.)	No flow	No flow	:

SPRING - A. ARMANDO

Location. - Lat. $34^{\circ}28'10''$, long. $119^{\circ}49'40''$.

Altitude. - About 400 feet, from topographic map.

Description. - Tunnel in hillside in nearly vertical sandstone beds. Discharge measured at mouth of tunnel.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	$^{\circ}\text{F}$
Oct. 18, 1948		: less than	:	:
		: 0.002	: less than 1	:
Feb. 23, 1949		: .00022	: 0.1	:
Mar. 31	(12:15 p.m.)	: No flow	: No flow	:
May 26	(12:15 p.m.)	: No flow	: No flow	:
June 20	(7:25 a.m.)	: No flow	: No flow	:
July 19	(9:55 a.m.)	: No flow	: No flow	:
Aug. 16	(10:45 a.m.)	: No flow	: No flow	:
Sept. 15	(12:00 noon)	: No flow	: No flow	:
Oct. 12	(3:00 p.m.)	: No flow	: No flow	:
Nov. 29	(12:55 p.m.)	: No flow	: No flow	:
Dec. 13	()	: No flow	: No flow	:
Jan. 23, 1950	(12:00 noon)	: No flow	: No flow	:
Mar. 17	(7:45 a.m.)	: No flow	: No flow	:
Apr. 20	(8:15 a.m.)	: No flow	: No flow	:
June 15	(10:30 a.m.)	: No flow	: No flow	:
Aug. 8	(9:40 a.m.)	: No flow	: No flow	:
Oct. 30	(10:20 a.m.)	: No flow	: No flow	:
Nov. 22	(9:00 a.m.)	: No flow	: No flow	:
Dec. 14	(12:35 a.m.)	: .00015	: .07	:
Jan. 24, 1951	(8:40 a.m.)	: .00014	: .06	:
Mar. 14	(9:40 a.m.)	No observation (boomers in work)		

SPRING - SAWYER ESTATE

Location.- Lat. 34°29'10", long. 119°49'50".

Altitude.- About 1,250 feet, from topographic map.

Description.- Spring diverted at rock rubble dam across creek bed. Prior to June 20, 1949 at open pit in alluvial wash about 3/8 mile downstream.

DATE		DISCHARGE		TEMP.
		Second-feet:	Gals. per min.:	
Oct. 19, 1948		No flow:	No flow :	
Feb. 23, 1949		No flow:	No flow :	
Mar. 31,	(10:30 a.m.)	No flow:	No flow :	
May 26,	(12:00 noon)	No flow:	No flow :	
June 20	(9:50 a.m.)	0.019 :	8.6 :	65
July 19	(10:35 a.m.)	.019 :	8.5 :	
Aug. 16	(11:20 a.m.)	.008 :	3.6 :	59
Sept. 15	(12:30 p.m.)	.008 :	3.6 :	
Nov. 29	(1:15 p.m.)	.012 :	5.4 :	56
Dec. 13	(2:10 p.m.)	.022 :	9.9 :	60
Jan. 23, 1950	(12:40 p.m.)	.035 :	15.7 :	
Mar. 17	(9:30 a.m.)	.019 :	8.5 :	52
Apr. 20	(8:50 a.m.)	.019 :	8.5 :	55
June 15	(11:10 a.m.)	.024 :	10.8 :	55
Aug. 8	(10:15 a.m.)	.005 :	2.2 :	60
Oct. 30	(11:45 a.m.)	.016 :	7.2 :	59
Nov. 22	(9:50 a.m.)	.023 :	10.3 :	61
Dec. 14	(11:20 a.m.)	.018 :	8.1 :	57
Jan. 24, 1951	(9:30 a.m.)	.023 :	10.3 :	55
Mar. 14	(8:00 a.m.)	.041 :	18.4 :	54
June 12	(12:20 p.m.)	.004 :	1.8 :	
July 23	(11:40 a.m.)	No flow :	No flow :	
Sept. 12	(10:15 a.m.)	No flow :	No flow :	
June 12	(12:20 p.m.)	.004 :	1.80 :	
July 23	(11:40 a.m.)	No flow :	No flow :	
Sept. 12	(10:15 a.m.)	do :	do :	
Oct. 26	(8:55 a.m.)	do :	do :	
Nov. 7	(8:05 a.m.)	do :	do :	
Dec. 12	(10:45 a.m.)	.017 :	7.6 :	51
Feb. 21, 1952	(9:05 a.m.)	.093 :	42 :	51
May 7	(9:20 a.m.)	.042 :	19 :	57
June 4	(11:35 a.m.)	* .023 :	10 :	57

* Original spring 28 reopened. Flowing 4.17 gpm

STATION 28a

SPRING - SAWYER ESTATE

Location.- Lat. $34^{\circ}29'40''$, long. $119^{\circ}49'45''$, about 1.0 mile above point of diversion.

Altitude.- About 2,050 feet, from topographic map.

Description.- Seepage in stream channel at rock outcrop just above sight of Strawberry flats, as known to the Sawyer estate.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.:	: °F
Oct. 12, 1949	(5:20 a.m.)	: 0.029	: 13	:
Jan. 23, 1950	(1:15 p.m.)	: .033	: 15	: 60
Apr. 20	(9:35 a.m.)	: .026	: 12	: 57
Aug. 8	(10:45 a.m.)	: .037	: 17	: 62
Mar. 14, 1951	(8:30 a.m.)	: .028	: 13	: 59
Sept. 12	(11:15 a.m.)	: .019	: 8.5	: 60
Oct. 26	(9:20 a.m.)	: .015	: 6.7	: 55

Diversion.- No known diversion above station.

[illegible]

SAN PEDRO CANYON CREEK ABOVE DIVERSION

Location.— Lat. $34^{\circ}28'40''$, long. $113^{\circ}50'10''$, in creek bed slightly upstream from side canyon to Spring #21, and at end of La Paterna lane about 3.2 miles north of Highway 101.

Altitude.— About 400 feet, from topographic map.

Description.— Diversion works is concrete dike across creek channel with 6-inch outlet line.

Diversion.— No known diversions above station.

DATE	DISCHARGE		TEMP.
	: Second-feet :	: Gals. per min.:	: °F :
July 23, 1948 (estimated)	: 0.07 :	: 30 :	:
Nov. 1 (2:10 p.m.)	: .065 :	: 29 :	:
Nov. 15 (11:10 a.m.)	: .091 :	: 41 :	:
Nov. 29 (10:50 a.m.)	: .10 :	: 45 :	:
Dec. 13 (10:25 a.m.)	: .11 :	: 50 :	:
Dec. 13 (11:45 a.m.)	: .11 :	: 50 :	:
Feb. 23, 1949 (9:29 a.m.)	: .10 :	: 45 :	:
Mar. 17 (9:10 a.m.)	: .18 :	: 81 :	:
Apr. 25 (1:20 p.m.)	: .11 :	: 51 :	:
May 26 (10:35 a.m.)	: .11 :	: 49.4 :	:
June 20 (8:50 a.m.)	: .12 :	: 52 :	:
July 19 (9:25 a.m.)	: .084 :	: 37.7 :	:
Aug. 16 (9:25 a.m.)	: .079 :	: 35.5 :	: 61
Sept. 15 (11:35 a.m.)	: .066 :	: 29.6 :	:
Oct. 17 (10:45 a.m.)	: .087 :	: 39 :	: 60
Nov. 29 (12:25 p.m.)	: .12 :	: 54 :	: 55
Dec. 14 (12:25 p.m.)	: .12 :	: 56 :	: 47
Jan. 10, 1950 (11:25 a.m.)	: .14 :	: 63 :	: 49
Feb. 24 (11:55 a.m.)	: .13 :	: 58 :	: 53
Mar. 15 (1:00 p.m.)	: .15 :	: 66 :	:
Apr. 13 (12:30 p.m.)	: .11 :	: 51 :	: 59
May 11 (1:00 p.m.)	: .082 :	: 37 :	: 60
June 15 (9:50 a.m.)	: .11 :	: 48 :	: 56
July 27 (12:10 p.m.)	: .078 :	: 35 :	: 65
Aug. 15 (10:00 a.m.)	: .089 :	: 40 :	: 60
Oct. 23 (1:45 p.m.)	: .064 :	: 29 :	:
Nov. 22 (11:30 a.m.)	: .056 :	: 25 :	: 62
Dec. 13 (12 M.)	: .099 :	: 44 :	: 56
Jan. 19, 1951 (12:30 p.m.)	: .15 :	: 66 :	: 50
Feb. 13 (11:40 a.m.)	: .10 :	: 47 :	:
Mar. 13 (11:35 a.m.)	: .085 :	: 38 :	: 53
Apr. 16 (11:30 a.m.)	: .097 :	: 44 :	:
June 12 (10:50 a.m.)	: .081 :	: 36 :	: 59
July 23 (10:15 a.m.)	: .068 :	: 30 :	: 64
Sept. 10 (11:05 a.m.)	: .064 :	: 29 :	:
Oct. 11 (11:05 a.m.)	: .077 :	: 35 :	:
Nov. 7 (8:30 a.m.)	: .072 :	: 32 :	:
Dec. 12 (9:35 a.m.)	: .13 :	: 60 :	: 49
Feb. 21 (10:05 a.m.)	: .22 :	: 100 :	: 49
May 7 (8:00 a.m.)	: .27 :	: 120 :	: 58
June 5 (11:50 a.m.)	: .25 :	: 87 :	:

SPRING - MRS. H. G. SCRATLEY & H. A. B. C'BARON

Location. - Lat. $31^{\circ}20'40''$, Long. $112^{\circ}53'10''$

Altitude. - About 425 feet, from topographic map.

Description. - Several seeps in landslide on valley walls. Discharge measured at 2-inch valve in pipe line.

DATE	DISCHARGE		TEMP. °F
	: Second-feet :	: Gals. per min.:	
July 23, 1948 (estimated)	: 0.04 - .08 :	: 18 - 35 :	
Oct. 19 (estimated)	: .04 :	: 18 - 20 :	
Nov. 1 (2:50 p.m.)	: .064 :	: 29 :	
Feb. 23, 1949 (9:00 a.m.)	: .075 :	: 34 :	
Apr. 25 (1:05 p.m.)	: .066 :	: 30 :	
May 26 (10:15 a.m.)	: .064 :	: 28.6 :	
Aug. 16 (9:10 a.m.)	: .062 :	: 27.8 :	66
Sept. 15 (11:25 a.m.)	: .062 :	: 28.0 :	
Oct. 17 (10:30 a.m.)	: .066 :	: 29 :	65
Nov. 29 (12:10 p.m.)	: .065 :	: 29 :	65
Dec. 14 (12:15 p.m.)	: .064 :	: 29 :	
Jan. 10 (11:05 a.m.)	: .065 :	: 29 :	60
Feb. 24 (11:30 a.m.)	: .066 :	: 29 :	59
Mar. 15 (1:25 p.m.)	: .065 :	: 29 :	
Apr. 13 (12:15 p.m.)	: .062 :	: 28 :	66
May 11 (12:10 p.m.)	: .056 :	: 25 :	67
June 15 (9:30 a.m.)	Irrigating		
July 27 (11:50 a.m.)	: .060 :	: 27 :	68
Aug. 15 (9:35 a.m.)	: .060 :	: 27 :	66
Oct. 23 (1:20 p.m.)	: .066 :	: 30 :	69
Nov. 22 (11:10 p.m.)	: .066 :	: 30 :	69
Dec. 13 (11:40 a.m.)	: .067 :	: 30 :	66
Jan. 19, 1951 (12:35 p.m.)	: .073 :	: 33 :	63
Feb. 13 (11:45 a.m.)	: .061 :	: 27 :	
Mar. 13 (11:45 a.m.)	: .058 :	: 26 :	63
Apr. 16 (11:38 a.m.)	: .059 :	: 27 :	
June 12 (11:00 a.m.)	: .056 :	: 26 :	65
July 23 (10:25 a.m.)	: .065 :	: 29 :	67
Sept. 10 (11:15 a.m.)	: .062 :	: 28 :	69
Oct. 11 (11:15 a.m.)	: .053 :	: 24 :	69
Nov. 7 (8:40 a.m.)	: .066 :	: 30 :	65
Dec. 12 (9:45 a.m.)	: .065 :	: 29 :	64
Feb. 22, 1952 (10:15 a.m.)	: .075 :	: 34 :	
May 7 (8:10 a.m.)	: .073 :	: 33 :	63
June 6 (11:50 a.m.)	: .069 :	: 31 :	

BARTLETT CANYON CREEK ABOVE DIVERSION

Location.- Lat. $34^{\circ}23'40''$, long. $119^{\circ}51'20''$, at end of Caneros Valley road 0.7 mile above junction with Dry Creek and about 3.7 miles north of Highway 101.

Altitude.- About 500 feet, from topographic map.

Description.- Measuring site is above diversion at solid rock barrier in creek channel which presumably brings most of the sub-surface flow to surface.

Diversion.- There are no known diversions above station.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
July 23, 1948	(estimated)	0.05	24	
Oct. 29	(3:44 p.m.)	.032	14	
Nov. 15	(12:55 p.m.)	.039	18	
Nov. 29	(12:25 p.m.)	.038	17	
Dec. 13	(12:45 p.m.)	.045	20	
Feb. 18, 1949	(1:00 p.m.)	.047	21	
Mar. 17	(8:25 a.m.)	.092	41	
Apr. 26	(1:10 p.m.)	.054	24	
May 26	(9:20 a.m.)	.050	22.4	
June 13	(12:15 p.m.)	.045	20.2	
July 18	(12:45 p.m.)	.033	14.8	66
Aug. 16	(8:15 a.m.)	.034	15.3	61
Sept. 15	(10:25 a.m.)	.031	13.9	
Oct. 17	(8:30 a.m.)	.038	17.1	60
Nov. 14	(10:55 a.m.)	.057	26	58
Dec. 13	(10:25 a.m.)	.055	25	50
Jan. 25, 1950	(2:50 p.m.)	.059	26	53
Feb. 24	(10:40 a.m.)	.055	25	54
Mar. 15	(11:55 a.m.)	.049	22	53
Apr. 13	(11:25 a.m.)	.038	17	59
May 9	(12:10 p.m.)	.025	11	59
June 14	(12:45 p.m.)	.036	16	56
July 27	(11:00 a.m.)	.033	15	65
Aug. 14	(8:30 a.m.)	.040	18	63
Oct. 23	(12:15 p.m.)	.024	11	63
Nov. 27	(9:45 a.m.)	.044	20	59
Dec. 13	(10:45 a.m.)	.074	33	57
Jan. 22, 1951	(12:15 p.m.)	.049	22	53
Feb. 13	(11:45 a.m.)	.038	17	
Mar. 13	(10:45 a.m.)	.047	21	55
Apr. 16	(10:20 a.m.)	.038	17	

BARTLETT CANYON CREEK ABOVE DIVERSION

DATE		DISCHARGE		TEMP	REMARKS
		Second- feet	Gals. per min.	°F	
1951					
June 12	(10:15 a.m.)	.035	16		
July 23	(9:30 a.m.)	.039	17	66	
Sept 10	(10:15 a.m.)	.042	19	65	
Oct. 11	(10:30 a.m.)	.021	9.5	67	
Nov. 7	(11:30 a.m.)	.021	9.3	63	
Dec. 3	(12 M)	.019	8.6	55	
1952					
Feb. 20	(12:50 p.m.)	.068	30	51	
Apr. 4	(12:40 p.m.)	.11	48	59	
May 15	(11:20 a.m.)	.074	33	62	
June 5	(10:55 a.m.)	.077	35	61	

SINKING - T. B. BISHOP COMPANY

Location. - Lat. $34^{\circ}22'00''$, Long. $111^{\circ}52'10''$

Altitude. - About 800 feet, from topographic map.

Description. - Seeps in alluvium on creek bottom. Discharge measured above diversion dam.

DATE	DISCHARGE		TEMP.
	: Second-feet	: Gals. per min.:	: °F
July 29, 1948	: 0.053	: 24	:
Feb. 18, 1949	: .067	: 30	:
Mar. 31 (9:05 a.m.)	: .17	: 75	:
Apr. 26 (2:25 p.m.)	: .11	: 48	:
May 26 (8:15 a.m.)	: .10	: 44.8	:
June 13 (11:30 a.m.)	: .084	: 37.5	:
July 18 (12:00 noon)	: .051	: 23.1	: 63
Aug. 15 (11:10 a.m.)	: .062	: 27.8	: 59
Sept. 15 (9:35 a.m.)	: .057	: 25.4	:
Oct. 17 (9:20 a.m.)	: .062	: 28	: 60
Nov. 14 (10:00 a.m.)	: .066	: 29	: 57
Dec. 13 (9:30 a.m.)	: .10	: 45	: 50
Jan. 25, 1950 (1:45 p.m.)	: .13	: 60	: 50
Feb. 24 (9:30 a.m.)	: .14	: 61	:
Mar. 15 (11:00 a.m.)	: .14	: 64	: 54
Apr. 13 (10:30 a.m.)	: .14	: 62	: 57
May 9 (11:05 a.m.)	: .069	: 31	: 57
June 14 (11:50 a.m.)	: .065	: 29	: 57
July 27 (9:15 a.m.)	: .062	: 28	: 60
Aug. 14 (9:20 a.m.)	: .068	: 30	: 59
Oct. 23 (10:30 a.m.)	: .033	: 15	: 64
Nov. 27 (10:50 a.m.)	: .070	: 31	: 57
Dec. 13 (9:40 a.m.)	: .063	: 23	: 58
Jan. 22, 1951 (11:00 a.m.)	: .055	: 25	: 55
Feb. 13 (9:30 a.m.)	: .062	: 28	:
Mar. 13 (9:45 a.m.)	: .059	: 26	: 54
Apr. 16 (9:10 a.m.)	: .050	: 23	:
June 12 (9:05 a.m.)	: .049	: 22	: 57
July 23 (8:45 a.m.)	: .040	: 18	: 61
Sept. 10 (9:30 a.m.)	: .040	: 18	: 61
Oct. 11 (9:40 a.m.)	: .030	: 13	: 60
Nov. 7 (10:45 a.m.)	: .033	: 15	: 58
Dec. 3 (10:50 a.m.)	: .044	: 20	: 53
Feb. 20, 1952 (10:20 a.m.)	: .18	: 79	:
Apr. 4 (10:55 a.m.)	: .76	: 338	: 60
May 15 (9:50 a.m.)	: .40	: 180	: 60
June 5 (9:10 a.m.)	: .29	: 132	: 59

STATION 35a

Mc COY CANYON CREEK

Location.- Lat. 34°28'40", long. 119°52'15", on Bishop Company Ranch.

Altitude.- About 700 feet, from topographic map.

Description.- Flow that occurs in creek below Spring #35. Above in McCoy Canyon at Station #35 normally all flow is diverted. Flow at #35a is now being wasted below in creek channel.

Measuring site is at rock outcrop about 50 feet above horizontal well.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.:	: °F
Jan. 25, 1950	(11:50 a.m.)	: 0.024	: 10.7	: 49
Apr. 13	(9:50 a.m.)	: .017	: 7.6	: 57
May 9	(10:20 a.m.)	: No flow	: No flow	:
June 14	(11:20 a.m.)	: No flow	: No flow	:
July 27	(9:45 a.m.)	: do	: do	:
Aug. 14	(9:55 a.m.)	: do	: do	:
Oct. 23	(10:50 a.m.)	: do	: do	:
Nov. 27	(11:10 a.m.)	: do	: do	:
Dec. 13	(10:00 a.m.)	: do	: do	:
Jan. 22, 1951	(11:30 a.m.)	: do	: do	:
Feb. 13	(9:55 a.m.)	: do	: do	:
Mar. 13	(10:05 a.m.)	: do	: do	:
Apr. 16	(9:20 a.m.)	: do	: do	:
June 12	(9:35 a.m.)	: do	: do	:
July 23	(9:15 a.m.)	: do	: do	:
Sept. 10	(9:55 a.m.)	: do	: do	:
Oct. 11	(10:05 a.m.)	: do	: do	:
Nov. 7	(11:15 a.m.)	: do	: do	:
Dec. 3	(11:15 a.m.)	: do	: do	:
Feb. 20, 1952	(11:45 a.m.)	: .12	: 56	:
Apr. 4	(11:30 a.m.)	: .42	: 190	:
May 15	(9:15 a.m.)	: .24	: 110	:
June 5	(9:50 a.m.)	: .14	: 61	: 60

HORIZONTAL WELL, MCCOY CANYON, BISHOP RANCH CO.

Location.- Lat. 34°28'40", long. 119°52'15".

Altitude.- About 700 feet, from topographic map.

Description.- 1,200-foot horizontal well paralleling creek channel in a northerly direction in Sespe Sandstone.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
Jan. 25, 1950	(11:30 a.m.)	0.38	168	67
Apr. 13	(9:45 a.m.)	.34	150	68
May 9	(10:15 a.m.)	.11	40	68
June 1	(11:00 a.m.)	.079	35	68
June 14	(11:15 a.m.)	.079	34	68
July 27	(9:50 a.m.)	.070	31	68
Aug. 14	(9:50 a.m.)	.056	30	59
Oct. 23	(10:55 a.m.)	Well cut-off		:
Nov. 27	(11:10 a.m.)	do	:	:
Dec. 13	(10:00 a.m.)	do	:	:
Jan. 22, 1951	(11:25 a.m.)	do	:	:
Feb. 13	(9:50 a.m.)	do	:	:
Mar. 13	(10:00 a.m.)	do	:	:
Apr. 16	(9:20 a.m.)	.050	30	:
June 12	(9:30 a.m.)	.058	26	68
July 23	(9:10 a.m.)	.062	28	68
Sept. 10	(9:50 a.m.)	.048	21	69
Oct. 11	(10:00 a.m.)	.053	24	68
Nov. 7	(11:10 a.m.)	.050	23	:

HORIZONTAL WELL, McCOY CANYON, BISHOP RANCH CO. (cont'd)

DATE	DISCHARGE		TEMP	REMARKS
	Second-foot	Gals. per min.		
1951				
Dec. 3 (11:10 a.m.)	Well, cut-off			Pressure gage=8.9 lbs per sq.incl
1952				
Feb. 20 (11:40 a.m.)		do		" " 18.0 " " " "
Apr. 4 (11:25 a.m.)		do		" " 22 " " " "
May 15 (9:10 a.m.)		do		" " 22 " " " "
May 19 (7:50 a.m.)	.067	30	69	Well turned on May 17, cut-off immediately after measurement.
June 5 (10:00 a.m.)	Well, cut-off			Pressure gage = 20.8 lbs. per sq. inch.

SPRING - OLAF HOVE

Location. - Lat. $34^{\circ}28'50''$, Long. $119^{\circ}52'50''$

Altitude. - About 600 feet, from topographic map.

Description. - Seeps in alluvium along creek bed - flow concentrated by dam across creek. Discharge measured at inflow to reservoir from settling box.

DATE	DISCHARGE		TEMP.
	: Second-feet	: Gals. per min.	: °F
July 22, 1948	: 0.0038	: 1.7	:
Oct. 15	: .0038	: 1.7	:
Feb. 17, 1949 (4:00 p.m.)	: .0069	: 3.1	:
Mar. 31 (8:00 a.m.)	: .011	: 4.8	:
Apr. 25 (2:30 p.m.)	: .015	: 6.9	:
June 13 (10:30 a.m.)	: .013	: 5.7	:
July 18 (11:45 a.m.)	: .0071	: 3.19	: 62
Aug. 15 (12:00 noon)	: .0060	: 2.68	: 59
Sept. 15 (8:50 a.m.)	: .0051	: 2.29	:
Oct. 12 (12:30 p.m.)	: .0023	: 1.04	: 63
Nov. 14 (8:35 a.m.)	: .0063	: 2.8	: 55
Dec. 13 (8:30 a.m.)	: .0092	: 4.1	: 44
Jan. 10, 1950 (12:30 p.m.)	: .010	: 4.5	: 53
Feb. 24 (8:25 a.m.)	: .019	: 8.3	: 55
Mar. 15 (9:40 a.m.)	: .017	: 7.8	: 52
Apr. 13 (8:30 a.m.)	: .012	: 5.6	: 55
May 9 (8:25 a.m.)	: .012	: 5.4	: 56
June 14 (10:15 a.m.)	: .0092	: 4.1	: 58
July 14 (8:30 a.m.)	: .0073	: 3.3	: 61
July 27 (8:20 a.m.)	: .0066	: 3.0	: 60
Aug. 8 (8:45 a.m.)	: .0050	: 2.24	: 57
Oct. 23 (9:30 a.m.)	: .0027	: 1.21	: 64
Nov. 20 (1:00 p.m.)	: .0074	: 3.3	: 64
Dec. 13 (8:40 a.m.)	: .0046	: 2.08	: 56
Feb. 13 (8:35 a.m.)	: .0041	: 1.83	:
Jan. 22, 1951 (9:45 a.m.)	: .0047	: 2.11	: 54
Mar. 13 (8:50 a.m.)	: .0036	: 1.60	: 52
Apr. 16 (8:15 a.m.)	: .0029	: 1.32	:
May 28 (8:05 a.m.)	: .0039	: 1.74	: 56
June 12 (7:55 a.m.)	: .0028	: 1.27	: 56
July 23 (7:40 a.m.)	: .0023	: 1.03	: 61
Sept. 10 (8:10 a.m.)	: .0020	: .91	: 61
Oct. 11 (8:30 a.m.)	: .00083	: .37	: 59
Nov. 7 (9:55 a.m.)	: .0011	: .50	: 62
Dec. 3 (8:55 a.m.)	: .0034	: 1.52	: 51
Feb. 20, 1952 (10:15 a.m.)	: .018	: 7.9	: 54
Mar. 14 (8:00 a.m.)	: .024	: 10.7	: 52
Apr. 4 (9:45 a.m.)	: .018	: 7.9	: 60
May 15 (7:45 a.m.)	: .019	: 8.7	: 60
June 5 (8:00 a.m.)	:* .036	: 16.0	: 59

* All flow in creek being diverted.

SEEPAGE, SOUTH PORTAL, TECOLOTE TUNNEL

Location.--Lat 34°29'00", long. 119°53'00", in Glen Anne Canyon.

Altitude.--651.59 feet. Furnished by Bureau of Reclamation.

Description.--Seepage water from outlet portal to 6.4 mile Tecolote Tunnel.
The South Portal is station 336+07.

DATE		DISCHARGE		TEMP	BUREAU OF RECLAMATION	DISTANCE FROM PORTAL IN FEET	
		Second- feet	Gals. per min.	°F	STATION		
1950		Tunnel operations		begun	336+07	0.0	
May	3	No flow			335+72	35	
June	1	(10:15 a.m.)	.00040	.18	62	331+16	491
	1	(10:20 a.m.)	.042	19			
	14	(10:35 a.m.)	.016	7.3	66	328+25	782
July	13	(10:50 a.m.)	.077	35	Installed 1 foot Parshall flume.		
	14	(8:15 a.m.)	.073	33	66		
	26	(1:10 p.m.)	.11	50		317+96	1,811
	27	(7:25 a.m.)	.093	42			a/
Aug.	8	(7:05 a.m.)	.14	63		314+30	2,177
	14	(9:20 a.m.)	.10	45		312+68	2,339
	23	(11:00 a.m.)	.08	36	68	309+80	2,627
Sept.	12	(10:00 a.m.)	.25	112	68	305+35	3,072
	28	(8:15 a.m.)	.25	112	67	301+14	3,493
Oct.	13	(8:30 a.m.)	.18	81	69	297+34	3,873
	23	(8:35 a.m.)	.12	54	70		
Nov.	10	(9:00 a.m.)	.085	38		288+47	4,760
1951							
Jan.	22	(10:00 a.m.)	.10	45		265+75	7,132
Feb.	5	(12 M)	Flow bi-passing gage			262+35	7,372
	6	(11:00 a.m.)	.84	378			c/
	6	(2:30 p.m.)	.30	135	70		
	7	(12:30 p.m.)	.22	100	71	262+35	7,372
	13	(8:05 a.m.)	.56	250		261+84	7,423
	19	(8:45 a.m.)	.57	256		260+80	7,527
	23	(12:20 p.m.)	.80	360			
Mar.	2	(1:30 p.m.)	1.12	503	70	259+19	7,688
	6	(8:30 a.m.)	1.42	637			
	9	(2:30 p.m.)	1.01	453	74	257+31	7,876
	13	(8:15 a.m.)	1.46	653		256+48	7,959
	20	(7:35 a.m.)	1.43	640			
	30	(8:50 a.m.)	1.33	596	69		
Apr.	11	(2:35 p.m.)	1.25	559	76		
	16	(7:50 a.m.)	1.60	718			
	23	(10:35 a.m.)	1.50	674		244+13	9,194
	26	(12:55 p.m.)	1.66	745		243+08	9,289

a/ Startee continuous recorder.

b/ Forebay to flume covered by bridge. Rating curve of flume used for purpose of measuring discharge.

c/ Flume being bi-passed by flow from tunnel. Moved gage 1500 ft downstream to southerly edge of Hove ranch.

d/ Recorder operating at new site.

SEEPAGE, SOUTH PORTAL, TECOLOTE TUNNEL (Cont'd)

DATE		DISCHARGE		TEMP	BUREAU OF RECLAMATION	DISTANCE FROM PORTAL IN FEET	
		Second-feet	Gals. per min.	°F	STATION		
1951							
May	18 (8:30 a.m.)	.47	213	70			1/
	25 (8:00 a.m.)	.75	336		235+40		1/
	31 (9:00 a.m.)	2.65	1,190				
June	1 (10:30 a.m.)	2.44	1,095				
	8 (7:40 a.m.)	2.44	1,095				
	12 (7:00 a.m.)	2.50	1,120		230+98		
	22 (7:10 a.m.)	2.50	1,120				
	29 (10:10 a.m.)	2.14	965				
July	16 (7:20 a.m.)	2.92	1,310	22	226+28		
	23 (7:50 a.m.)	3 Est	1,350		Dial in AF	Sparling Meter	
Aug.	1 (9:00 a.m.)	4.6	2,060		223+49	005.579	2/
	9 (9:45 a.m.)	6.3	2,840	81	222+55	072.758	3/
Sept.	10 (8:15 a.m.)	5.4	2,420	82	222+55	394.589	4/
	25 (1:00 p.m.)	6.8	3,020		*223+75	585.917	
Oct.	11 (8:40 a.m.)	3.75	1,680		222+55	709.646	
	18 (8:10 a.m.)	4.05	1,815	82		759.943	
	30 (8:45 a.m.)	6.6	2,950	84	222+55	139.449	
Nov.	7 (10:00 a.m.)	Meter head to Sparling removed			222+55		
Dec.	3 (9:05 a.m.)	8.4	3,780	85	222+55	457.439	
	Meas. 3.62 cfs through new 12 inch line (unmetered)						
	27 (1:05 p.m.)	7.1	3,200				
1952							
Jan.	7 (10:00 a.m.)	7.0	3,150	84	222+55	736.102	
Feb.	20 (10:20 a.m.)	8.5	3,820	85	222+55	093.836	
Mar.	14 ()	8.1	3,620		222+55	229.911	
Apr.	14 (9:50 a.m.)	8.0	3,570	83	Still working on drifts.		
May	15 (8:00 a.m.)	8.6	3,870	86	221+61	717.720	
June	5 (8:10 a.m.)	9.0	4,060	85	221+61	882.740	

- 1/ Some of flow being diverted above to test conduit into Santa Barbara.
 2/ Sparling totalizer Meter installed July 31, 1951.
 3/ Hit stream of water Aug. 8, 12:15 p.m.)
 4/ No progress in driving tunnel, grouting off flow of water.
 * Lost 100

GLEN ANNE CREEK AT TOLMATE

Location. - Lat. $34^{\circ}29'20''$, long. $119^{\circ}52'40''$, at narrows in Glen Anne Canyon and at damside of proposed reservoir at end of Tecolote Tunnel. About 2.9 miles north of Highway 101.

Altitude. - About 350 feet, from topographic map.

Description. - Measurement site at mouth of canyon in narrows of box canyon reached by Glen Anne Canyon road.

Diversions. - Olaf Howe diverts from Spring #35 in Creek bed about 0.5 mile above station.

DATE		DISCHARGE		TEMP	
		Second-feet	Gals. per min.	+ °F	
Nov. 2, 1948	(10:30 a.m.)	No flow	No flow		
Dec. 13	(1:50 p.m.)	No flow	No flow		
Feb. 17, 1949	(3:45 p.m.)	No flow	No flow		
Mar. 16	(1:45 p.m.)	No flow	No flow		
Aug. 15	(12:20 p.m.)	No flow	No flow		
Nov. 14	(8:45 a.m.)	No flow	No flow		
Jan. 10, 1950	(12:10 p.m.)	No flow	No flow		
*July 27	(8:05 a.m.)	.098	44		65
Aug. 8	(8:55 a.m.)	.12	53		63
Oct. 23	(8:20 a.m.)	.17	75		69
Nov. 20	(12:35 p.m.)	.19	83		70
Dec. 13	(8:30 a.m.)	.15	67		65
Jan. 22, 1951	(9:25 a.m.)	.33	150		65
Feb. 7	(12:15 p.m.)	.22	100		71
Feb. 7 - Recorder started on southerly edge of Howe ranch this date; see daily gage-height sheet for further flow at this station.					
May 18	(8:30 a.m.)	.47	213		70
25	(8:00 a.m.)	.75	336		72
Aug. 7	(8:30 a.m.)	.10	47		67
17	(8:20 a.m.)	** .0051	2.30		
Sept. 10	(7:00 a.m.)	No flow	No flow		
25	(12:15 p.m.)	No flow	No flow		
Oct. 11	(8:05 a.m.)	No flow	No flow		
Nov. 7	(9:25 a.m.)	No flow	No flow		
Dec. 3	(8:25 a.m.)	No flow	No flow		
Dec. 27	(12:30 p.m.)	No flow	No flow		
Jan. 7, 1952	(9:50 a.m.)	.048	21		49
Feb. 20	(10:05 a.m.)	.052	24		54
Mar. 14	(7:50 a.m.)	.076	34		54
Apr. 4	(10:10 a.m.)	.49	220		76
May 15	(8:20 a.m.)	.064	29		59
June 5	(7:50 a.m.)	.0097	4.36		59

** No flow at station.

* Seepage water from Tecolote tunnel began to show up on this date.

BISHOP COMPANY WELLS 11 AND 12

Location.- Lat. 34°28'20", long. 119° 52'40", in Glen Anne Canyon about 100 feet below proposed damsite.

Altitude.- About 350 feet, (from topographic map).

Description.- Two wells about 50 feet west of stream channel.

DATE		DISCHARGE		WATER METER	W.H. METER		DEPTH TO WATER	
		Sec.	ft. G p.m.		35J1	35J2	J1	J2
June 13, 1949	(10:00 a.m.)	.048	21	0255159	2080	1998		
July 18	(10:55 a.m.)	.050	22	0365557	3297	2120		
Aug. 15	(12 M)	.045	20	0482999	3555	2264		
Sept. 15	(8:30 a.m.)	Pumps off		0498442	3593	2285	35.37	26.58'
Oct. 12	(12:05 p.m.)	do		0498443	3593	2285	31.25	24.09'
Nov. 14	(8:10 a.m.)	do		0498443	3593	2285	28.17	22.72'
Dec. 13	(8:00 a.m.)	do		0498443	3593	2285	26.29	21.94'
Jan. 10, 1950	(12 M)	do		0498443	-	-	24.44	20.94'
Feb. 24	(8:00 a.m.)	do		0498443	-	-	21.28	19.47'
Mar. 15	(9:15 a.m.)	do		0498443	-	-	20.44	19.02'
Apr. 13	(8:00 a.m.)	do		*0498443	3596	2285	19.40	18.61'
May 9	(8:00 a.m.)	.086	39	*0509348	3652	2305		
June 14	(10:00 a.m.)	.056	25	0651530	3971	2484		
July 14	(8:45 a.m.)	.050	23	0782790	4238	2634		
July 27	(7:50 a.m.)	Pump J2 off.		0822735	4359	2650		30.65'
Aug. 8	(9:05 a.m.)	.061	27	0871285	4475	2686		
Oct. 23	(8:00 a.m.)	.050	22	1172447	5114	3010		
Nov. 20	(12:15 p.m.)	Pumps off		1284446	5407	2147		
Dec. 13	(8:00 a.m.)	do		1284446	5407	2147	33.90	27.34'
Jan. 22, 1951	(9:15 a.m.)	.061	27	*1284552	5551	2214		
Feb. 13	(7:35 a.m.)	.059	27	*1285448	5887	3324		
Mar. 13	(7:45 a.m.)	.061	27	1296887	5977	3413		Pump J
Apr. 16	(6:50 a.m.)	.018	8.2	1316713	6288	3596	40.49	motor
May 28	(7:45 a.m.)	.021	9.4	1446820	6292	3670	Well	idle
June 12	(7:35 a.m.)	.058	26	removed	6440	3709		
July 23	(7:30 a.m.)	.048	21	1525052	6920	3917		
Sept. 10	(7:45 a.m.)	.041	18	1695284	7488	4161		
Oct. 11	(7:50 a.m.)	.028	13	1739435		4222	Well J2 idle	
Nov. 7	(9:10 a.m.)	pumps idle		1778206	7779	4275	37.66	29.53
Dec. 3	(8:10 a.m.)	do		1778252	7782	4275	33.88	26.68
Jan. 7, 1952	(8:50 a.m.)	do		1778272	7784	4275	29.70	26.50
Feb. 20	(9:35 a.m.)	do		1778426	disman- tled	4276	-	21.42
Mar. 14	(7:35 a.m.)	do		1778463	-	4277	-	-
Apr. 4	(9:20 a.m.)	do		1778769	-	4279	-	-
May 15	(8:30 a.m.)	do		1778973	-	4282	-	17.41
June 5	(7:30 a.m.)	do		1778976	-	4284	-	18.19

* Water Meter removed for repairs or pipe bi-passing meter.

STATION 40.

DIVERSION - ELLWOOD DAIRIES

Location.- Lat. $34^{\circ}28'10''$, long. $119^{\circ}53'30''$.

Altitude.- About 320 feet, from topographic map.

Description.- Wood-curbed seep in alluvium of creek bottom. Discharge measured at inflow to settling box.

DATE	DISCHARGE		TEMP.
	: Second-feet	: Gals. per min.	: °F
Aug. 16, 1948	: 0.0027	: 1.2	:
Feb. 17, 1949	: .0076	: 3.4	:
Mar. 16 (12:55 p.m.)	: .0047	: 2.1	:
Mar. 30 (3:45 p.m.)	: .036	: 16	:
Apr. 26 (10:55 a.m.)	: .13	: 60	:
Sept. 13 (10:00 a.m.)	: .005	: less than 1 (Est)	:
	:	:	:
	:	:	:
	:	:	:
	:	:	:
	:	:	:

ELLWOOD CANYON CREEK ABOVE DIVERSIONS

Location. - Lat. 34°28'10", long. 119°53'30", Narrows near end of Armas Canyon Road, about 2.8 miles north of Highway 101.

Altitude. - About 304 feet, from Bureau of Reclamation Bench Mark.

Description. - Measuring site in narrows at mouth of Canyon which is above all diversions. Measurements of extremely low flow made volumetric at diversion box 300 feet below.

Remarks. - There is abandoned 2-inch line to Spring #29 in creek bed about 0.5 mile above station.
(Note - 6-inch line to Dairies not operating Mar. 16, 1949; but it will be used later.

	DATE	DISCHARGE		TEMP.
		Second-feet	Gals. per min.	
Oct. 28, 1948	(5:30 p.m.)	No flow	No flow	
Nov. 15	(2:25 p.m.)	No flow	No flow	
Nov. 29	(1:25 p.m.)	No flow	No flow	
Feb. 17, 1949	(1:00 p.m.)	0.075	34	
Mar. 16	(1:05 p.m.)	.98	440	
Mar. 30	(2:00 p.m.)	.33	148	
Apr. 26	(10:55 a.m.)	.13	60	
June 20		.031	13.8	62
July 19	(8:40 a.m.)	.017	7.6	59
Aug. 15	(1:25 p.m.)	.0026	1.17	62
Nov. 14	(12:30 p.m.)	.0010	.45	63
Dec. 19	(11:15 a.m.)	.25	114	
Jan. 23, 1950	(11:05 a.m.)	.33	149	55
Feb. 21	(12:45 p.m.)	.38	170	
Mar. 15	(8:45 a.m.)	.12	54	51
Apr. 12	(12:10 p.m.)	.12	52	53
May 11	(11:10 a.m.)	.041	18	60
June 15	(8:50 a.m.)	.029	13	56
July 28	(11:45 a.m.)	.010	4.5	73
Aug. 14	(11:30 a.m.)	.010	4.5	
Oct. 30	(1:15 p.m.)	.0017	.8	
Nov. 22	(12:50 p.m.)	.0034	1.5	66
Dec. 15	(1:30 p.m.)	.004	1.8	61
Jan. 19, 1951	(11:00 a.m.)	.14	62	50
Feb. 23	(1:15 p.m.)	.046	21	50
Mar. 15	(11:15 a.m.)	.061	27	59
Apr. 26	(10:50 a.m.)	.029	13	
June 18	(9:00 a.m.)	.014	6.28	58
July 31	(10:50 a.m.)	.0032	1.44	
Sept. 12	(9:30 a.m.)	.0017	.76	61
Oct. 26	(8:00 a.m.)	.0019	.85	50
Nov. 7	(12:15 p.m.)	.00034	.15	65
Dec. 4	(11:20 p.m.)	.0020	1.01	54
Feb. 20, 1952	(9:10 a.m.)	.72	321	49
Apr. 3	(11:05 a.m.)	2.05	920	60
May 14	(11:40 a.m.)	.66	296	63
June 4	(10:10 a.m.)	.44	197	

ELWOOD CANYON CREEK AT DOTY DIVERSION

Location.- Lat. $34^{\circ}27'40''$, long. $112^{\circ}53'30''$, at Doty diversion dam in Elwood Canyon, about 2.1 miles north of Highway 101.

Altitude.- About 225 feet, from topographic map.

Description.- Measuring site in Creek channel at old abandoned concrete diversion dam.

Diversions.- Several diversions above station.

DATE		DISCHARGE	
		: Second-feet	: Gals. per min.
Aug. 17, 1948		: No flow	: No flow
Feb. 17, 1949		: No flow	: No flow
Mar. 30	(1:15 p.m.)	: No flow	: No flow
Apr. 26	(10:15 a.m.)	: No flow	: No flow
June 20		: No flow	: No flow
July 19	(8:25 a.m.)	: No flow	: No flow
Aug. 15	(1:15 p.m.)	: No flow	: No flow
Sept. 13	(9:45 a.m.)	: No flow	: No flow
Nov. 14	(12:05 p.m.)	: No flow	: No flow
Dec. 19	(10:40 a.m.)	: No flow	: No flow
		:	:
		:	:
		:	:
		:	:

SPRING - ELL OOD DAIRIES

Location. - Lat. 34°27'10", Long. 119°53'00"

Altitude. - About 225 feet, from topographic map.

Description. - Timbered drift in sandstone bed on hillside. Discharge measured at outlet faucet by watering trough.

DATE	DISCHARGE		TEMP
	: Second-feet	: Gals. per min.:	: °F
Aug. 17, 1948	: 0.0018	: 0.8	:
Mar. 30, 1949 (12:45 p.m.)	: No flow	: No flow	:
Apr. 26 (9:15 a.m.)	: .0012	: .53	:
June 20 ()	: .00077	: .35	:
July 19 (8:05 a.m.)	: No flow	: No flow	:
Aug. 15 (1:00 p.m.)	: No flow	: No flow	:
Sept. 13 (9:25 a.m.)	: No flow	: No flow	:
Nov. 14 (11:55 a.m.)	: .000088	: .040	:
Dec. 19 (10:05 a.m.)	: .0012	: .56	:
Jan. 23, 1950 (10:15 a.m.)	: .0029	: 1.30	:
Feb. 21 (12:25 p.m.)	: No flow	: No flow	:
Mar. 15 (8:30 a.m.)	: No flow	: No flow	:
Apr. 12 (11:30 a.m.)	: .000075	: .034	:
May 11 (10:45 a.m.)	: .00017	: .08	: 67
June 15 (8:25 a.m.)	: .00015	: .07	: 59
July 28 (11:25 a.m.)	: .00016	: .07	: 71
Aug. 14 (10:50 a.m.)	: .000060	: .03	: 68
Oct. 30 (12:45 p.m.)	: .0030	: 1.4	: 68
Nov. 22 (12:20 p.m.)	: .0080	: 4.0	: 63
Dec. 15 (1:45 p.m.)	: No flow	: No flow	:
Jan. 19, 1951 (11:35 a.m.)	: .000051	: .02	:
Feb. 23 (1:25 p.m.)	: No flow	: No flow	:
Mar. 15 (11:30 a.m.)	: 90 drops in 60 seconds	:	:
Apr. 26 (11:00 a.m.)	: .0001	: 3.7	:
June 18 (10:15 a.m.)	: 108 drops per minute	:	:
July 31 (10:20 a.m.)	: No flow	: No flow	:
Sept. 12 (9:10 a.m.)	: No flow	: No flow	:
Oct. 26 (7:30 a.m.)	: No flow	: No flow	:
Nov. 7 (11:55 a.m.)	: No flow	: No flow	:
Dec. 4 (10:55 a.m.)	: No flow	: No flow	:
Feb. 20, 1952 (8:35 a.m.)	: .0012	: .53	:
Apr. 3 (12:55 p.m.)	: .014	: 6.1	: 59
May 14 (12:10 p.m.)	: * No flow	: No flow	:
June 4 (10:25 a.m.)	: .011	: 4.93	: 60
:	:	:	:
:	:	:	:
:	:	:	:

* About 30 gals. ran out while plug was off.

SPRING - ELLWOOD DAIRIES

Location.- Lat. $34^{\circ}27'00''$, Long. $119^{\circ}53'40''$.

Altitude.- About 160 feet, from topographic map.

Description.- Former seep in alluvium of valley floor.

DATE		DISCHARGE		Water level in feet
		Second-feet	Gals. per min.	below reference point
Aug. 18, 1948		No flow	No flow	
Feb. 17, 1949		No flow	No flow	
Mar. 30,	(1:00 p.m.)	No flow	No flow	18.97
Apr. 26	(9:25 a.m.)	No flow	No flow	17.38
June 20	(11:20 a.m.)	No flow	No flow	15.25
July 19	(8:15 a.m.)	No flow	No flow	15.40
Aug. 15	(1:10 p.m.)	No flow	No flow	15.34
Sept. 13	(9:30 a.m.)	No flow	No flow	15.84
Nov. 14	(12:00 noon)	No flow	No flow	16.03
Dec. 19	(10:30 a.m.)	No flow	No flow	14.12
Jan. 23, 1950	(10:30 a.m.)	No flow	No flow	13.28
Feb. 21	(12:30 p.m.)	No flow	No flow	12.77
Mar. 15	(8:35 a.m.)	No flow	No flow	12.78
Apr. 12	(11:50 a.m.)	No flow	No flow	12.67
May 11	(10:55 a.m.)	No flow	No flow	12.40
June 15	(8:40 a.m.)	No flow	No flow	12.60
July 28	(11:30 a.m.)	No flow	No flow	12.51
Aug. 14	(12:15 p.m.)	No flow	No flow	12.30
Oct. 30	(12:55 p.m.)	No flow	No flow	12.92
Nov. 22	(12:30 p.m.)	No flow	No flow	12.22
Dec. 15	(1:10 p.m.)	No flow	No flow	12.24
Jan. 19, 1951	(11:25 a.m.)	No flow	No flow	12.44
Feb. 23	(12:50 p.m.)	No flow	No flow	14.01
Mar. 15	(11:10 a.m.)	No flow	No flow	12.65
June 18	(9:45 a.m.)	No flow	No flow	12.84
July 31	(10:30 a.m.)	No flow	No flow	14.50
Sept. 12	(9:15 a.m.)	No flow	No flow	18.76
Oct. 26	(7:40 a.m.)	No flow	No flow	20.30
Nov. 7	(12 M)	No flow	No flow	16.30
Dec. 4	(11:50 a.m.)	No flow	No flow	20.03
Feb. 20, 1952	(8:45 a.m.)	No flow	No flow	10.67
Apr. 3	(12:05 p.m.)	No flow	No flow	10.08
May 14	(12 M)	No flow	No flow	10.69
June 4	(9:55 a.m.)	No flow	No flow	11.23

SPRING - ELLWOOD DAIRIES

Location.- Lat. $34^{\circ}26'40''$, long. $119^{\circ}53'40''$.

Altitude.- About 150 feet, from topographic map.

Description.- Open excavated pool in landslide on valley side.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.	: °F
Aug. 13, 1948		: No flow	: No flow	:
Feb. 17, 1949		: Practically:	: Practically	:
		: no flow	: no flow	:
Mar. 30	(12:30 p.m.)	: No flow	: No flow	:
Apr. 26	(9:00 a.m.)	: No flow	: No flow	:
June 20	(12:00 noon)	: No flow	: No flow	:
July 19	(7:55 a.m.)	: No flow	: No flow	:
Aug. 15	(12:50 p.m.)	: No flow	: No flow	:
Sept. 13	(9:20 a.m.)	: No flow	: No flow	:
Nov. 14	(11:45 a.m.)	: No flow	: No flow	:
Dec. 19	(9:50 a.m.)	: No flow	: No flow	:

TECOLOTE CANYON CREEK ABOVE DIVERSION NEAR ELLWOOD

Location.- Lat. $34^{\circ}29'20''$, Long. $119^{\circ}34'30''$, about 0.4 mile north of end of road through Tecolote Ranch, and about 4.0 miles north of Highway 101.

Altitude.- About 7200 feet, from topographic map.

Description.- During extreme low flow the measuring site is about 1,500 feet above Tecolote Ranch diversion at outcrop, at all other times the flow is measured at another rock outcrop about 150 feet above diversion.

Diversion.- No known diversions above this station.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
Feb. 15, 1946	(1:10 p.m.)	0.42	170	
Apr. 18	(10:05 a.m.)	.97	440	
Apr. 7, 1947	(2:20 p.m.)	1.42	640	
May 15	(9:00 a.m.)	.06	27	
June 10		.02	9.0	
July 17	(10:40 a.m.)	a .005	2.2	
Dec. 5	(10:45 a.m.)	.045	20	
Jan. 9, 1948	(10:00 a.m.)	.13	60	
Feb. 18	(10:00 a.m.)	.13	60	
Mar. 18	(11:00 a.m.)	.21	92	
Apr. 15	(9:45 a.m.)	.27	120	
May 14	(9:00 a.m.)	.061	27	
June 11	(10:30 a.m.)	.061	27	
July 21	(8:15 a.m.)	.011	4.9	
Aug. 19	(10:20 a.m.)	No flow	No flow	
Sept. 15	(9:05 a.m.)	No flow	No flow	
Oct. 15		No flow	No flow	
Oct. 19	(10:00 a.m.)	No flow	No flow	
Nov. 15	(3:45 p.m.)	No flow	No flow	
Dec. 13	(2:45 p.m.)	No flow	No flow	
Jan. 17, 1949	(10:05 a.m.)	.18	81	
Mar. 16	(11:45 a.m.)	1.14	510	
Apr. 25	(10:10 a.m.)	.10	45	
May 13	(12:20 p.m.)	.061	27	
June 20	(12:40 p.m.)	.065	29.2	
July 18	(10:10 a.m.)	No flow	No flow	
Aug. 15	(10:15 a.m.)	No flow	No flow	
Sept. 13	(9:00 a.m.)	No flow	No flow	
Oct. 12	(11:30 a.m.)	No flow	No flow	
Nov. 15	(11:50 a.m.)	No flow	No flow	
Dec. 19	(1:00 p.m.)	.23	102	52
Jan. 19, 1950	(10:50 a.m.)	.71	320	52
Feb. 23	(8:45 a.m.)	.55	250	
Mar. 14	(12:45 p.m.)	.21	93	53
Apr. 12	(9:45 a.m.)	.18	83	54

a Estimated.

TECOLOTE CANYON CREEK ABOVE DIVERSION NEAR ELLWOOD (Cont'd)

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	F°
May 11, 1950	(9:35 a.m.)	: .080	: 27	: 57
June. 14	(9:10 a.m.)	: .019	: 8.5	: 55
July 28	(10:40 a.m.)	: No flow	: No flow	:
Aug. 14	(12:40 p.m.)	: No flow	: No flow	:
Nov. 1	(12:40 p.m.)	: No flow	: No flow	:
Nov. 27	(12:10 p.m.)	: No flow	: No flow	:
Dec. 15	(12:15 p.m.)	: .024	: 11	: 59
Feb. 19	(10:15 a.m.)	: .058	: 26	:
Jan. 19, 1951	(10:00 a.m.)	: .065	: 29	: 51
Mar. 15	(9:50 a.m.)	: .064	: 29	: 53
Apr. 26	(9:50 a.m.)	: .099	: 34	:
June 18	(8:35 a.m.)	: No flow	: No flow	:
July 27	(1:40 p.m.)	: no flow	: No flow	:
Sept. 12	(8:40 a.m.)	: No flow	: No flow	:
Oct. 24	(1:20 p.m.)	: No flow	: No flow	:
Nov. 5	(9:30 a.m.)	: No flow	: No flow	:
Dec. 11	(12 M)	: No flow	: No flow	:
Feb. 19, 1952	(10:15 a.m.)	: 1.12	: 305	: 49
Apr. 3	(10:05 a.m.)	: 2.80	: 1,260	: 55
May 14	(10:25 a.m.)	: .40	: 182	: 58
June 6	(3:25 p.m.)	: .40	: 174	:

SPAULDING RANCH DIVERSION FROM TECOLOTE CANYON CREEK NEAR ELWOOD

Location.- Lat. $34^{\circ}28'45''$, long. $119^{\circ}43'40''$, about 3 miles north of Highway 101.

Altitude.- About 400 feet, from topographic map.

Description.- Volumetric measuring device 1,500 feet below point of diversion at valve on 6-inch conduit to reservoir.

DATE		DISCHARGE		TEMP.
		: Second feet :	: Gals. per min. :	: °F :
Nov. 15, 1949	(12:10 p.m.)	: 0.029 :	: 13 :	: 60 :
Feb. 23, 1950	(9:15 a.m.)	: No meas. :	: No meas. :	: :
Mar. 15		: .23 :	: 100 :	: :
Mar. 20		: .18 :	: 80 :	: :
Apr. 12	(10:45 a.m.)	: .25 :	: 110 :	: :
July 28	(10:15 a.m.)	: .020 :	: 9 :	: :
Aug. 14	(1:10 p.m.)	: .0070 :	: 3.2 :	: :
Nov. 27	(12:25 p.m.)	: .052 :	: 23 :	: :
June 18	(9:05 a.m.)	: .0050 :	: 2.24 :	: 59 :
July 27	(1:15 p.m.)	: .0061 :	: 2.73 :	: 65 :
Sept. 12	(8:50 a.m.)	: .0032 :	: 1.42 :	: 63 :
Oct. 24	(1:15 p.m.)	: No flow :	: No flow :	: :
Nov. 5	(9:40 a.m.)	: .012 :	: 5.3 :	: 62 :
Dec. 11	(11:35 a.m.)	: .0054 :	: 2.42 :	: 49 :
Closed during rainy season				
June 6, 1952	(3:00 p.m.)	: .44 :	: 200 :	: 59 :

SPRING - L. G. DREYFUS ESTATE

Location.- Lat. 34°28'30", long. 119°55'40".

Altitude.- About 350 feet, from topographic map.

Description.- Two concrete-curbed seeps at foot of hill. Discharge measured at settling box.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.	: °F
Jan. 17, 1949	(10:15 a.m.)	: 0.00027	: 0.12	:
Mar. 30	(3:00 p.m.)	: .00015	: .067	:
May 13	(10:50 a.m.)	: .00023	: .10	:
June 20	(2:30 p.m.)	: .00015	: .069	:
July 18	(9:25 a.m.)	: .00016	: .071	:
Aug. 15	(9:40 a.m.)	: Pract. dry	:	:
Sept 13	(8:20 a.m.)	: Pract. dry	:	:
Oct. 12	(10:40 a.m.)	: .000061	: .028	:
Nov. 15	(10:55 a.m.)	: .000051	: .023	:
Dec. 21	(8:10 a.m.)	: .00010	: .047	: 52
Jan. 19, 1950	(9:15 a.m.)	: .00034	: .15	: 53
Feb. 21	(11:00 a.m.)	: .000099	: .044	:
Mar. 14	(11:35 a.m.)	: .000085	: .038	: 57
Apr. 12	(8:50 a.m.)	: .000093	: .042	: 63
May 11	(8:40 a.m.)	: 132 drops in 1 minute	:	:
June 14	(8:25 a.m.)	: 106 drops in 1 minute	:	:
July 28	(9:35 a.m.)	: 172 drops in 1 minute	:	:
Aug. 15	(8:55 a.m.)	: 96 drops in 1 minute	:	:
Nov. 1	(11:45 a.m.)	: 182 drops in 1 minute	:	:
Nov. 27	(1:45 p.m.)	: 131 drops in 1 minute	:	:
Dec. 15	(11:30 a.m.)	: 146 drops in 1 minute	:	:
Jan. 22, 1951	(8:45 a.m.)	: .000057	: .02	:
Feb. 19	(11:10 a.m.)	: .00017	: .07	:
Mar. 15	(9:10 a.m.)	: .00024	: .11	: 54
Apr. 26	(8:00 a.m.)	: .00016	: .04	:

SPRING - L. G. DREYFUS ESTATE (CONT'D)

DATE		DISCHARGE		TEMP	REMARKS
		:Second:	: Gals. per	F	
		feet	min.		
1951					
June 18	(7:30 a.m.)	No	flow		Stock water trough full.
July 27	(12:50 p.m.)	No	flow		Water in stock trough.
Sept. 12	(8:20 a.m.)	No	flow		Water being hauled for cattle.
Oct. 24	(12:25 p.m.)	No	flow		do
Nov. 5	(8:25 a.m.)	No	flow		do
Dec. 11	(11:00 a.m.)	126 drops per minute			
1952 Feb. 19	(10:25 a.m.)	.00032	.14	54	
Apr. 3	(9:15 a.m.)	.013	a/ 1.0		Spring box full of water - can hear water running-does not flow into trough.
May 14	(8:55 a.m.)	No	flow		Spring believed to need cleaning
June 4	(8:15 a.m.)	Inlet pipes submerged			Spring box & water trough full.

a/ Estimated

MIDDLE FORK, EAGLE CANYON CREEK

Location. - Lat. $34^{\circ}29'00''$, long. $119^{\circ}55'40''$, in Eagle Canyon at upper-most diversion about 3.0 miles north of Highway 101.

Altitude. - About 500 feet, from topographic map.

Description. - Measuring site at diversion box 2,600 feet above Eagle Canyon road. The 2-inch line from this diversion box broken and the diversion abandoned.

Diversions. - No known diversions above this station.

DATE	DISCHARGE		TEMP.
	: Second-feet :	: Gals. per min.:	: °F :
Oct. 18, 1948	: No flow :	: No flow :	:
Jan. 17, 1949 (12:45 p.m.)	: 0.0078 :	: 3.5 :	:
Mar. 30 (9:15 a.m.)	: .014 :	: 6.3 :	:
May 13 (10:15 a.m.)	: No flow :	: No flow :	:
June 20 (1:45 p.m.)	: No flow :	: No flow :	:
July 18 (8:50 a.m.)	: No flow :	: No flow :	:
Aug. 15 (9:00 a.m.)	: No flow :	: No flow :	:
Sept. 13 (7:50 a.m.)	: No flow :	: No flow :	:
Oct. 12 (10:05 p.m.)	: No flow :	: No flow :	:
Nov. 15 (10:15 a.m.)	: No flow :	: No flow :	:
Dec. 21 (8:35 a.m.)	: No flow :	: No flow :	:
Jan. 19, 1950 (9:40 a.m.)	: No flow :	: No flow :	:
Feb. 21 (10:35 a.m.)	: No flow :	: No flow :	:
Mar. 14 (11:00 a.m.)	: No flow :	: No flow :	:
Apr. 12 (8:00 a.m.)	: No flow :	: No flow :	:
May 11 (8:10 a.m.)	: No flow :	: No flow :	:
June 14 (7:50 a.m.)	: No flow :	: No flow :	:
July 28 (9:10 a.m.)	: No flow :	: No flow :	:
Aug. 15 (8:30 a.m.)	: No flow :	: No flow :	:
Nov. 1 (11:10 a.m.)	: No flow :	: No flow :	:
Nov. 27 (1:10 p.m.)	: No flow :	: No flow :	:
Dec. 15 (11:00 a.m.)	: No flow :	: No flow :	:
Jan. 22, 1951 (8:00 a.m.)	: No flow :	: No flow :	:
Feb. 19 (11:20 a.m.)	: No flow :	: No flow :	:
Mar. 15 (8:50 a.m.)	: No flow :	: No flow :	:
Apr. 26 (7:25 a.m.)	: No flow :	: No flow :	:
June 18 (7:40 a.m.)	: No flow :	: No flow :	:
July 27 (12:30 p.m.)	: No flow :	: No flow :	:
Sept. 12 (7:55 a.m.)	: No flow :	: No flow :	:
Oct. 24 (11:45 a.m.)	: No flow :	: No flow :	:
Nov. 5 (8:30 a.m.)	: No flow :	: No flow :	:
Dec. 11 (10:35 a.m.)	: No flow :	: No flow :	:
Feb. 19, 1952 (9:50 a.m.)	: .0043 :	: 1.92 :	52
Apr. 3 (8:35 a.m.)	: .054 :	: 24 :	58
May 14 (9:00 a.m.)	: No flow :	: No flow :	:
June 4 (8:30 a.m.)	: No flow :	: no flow :	:

EAGLE CANYON CREEK NEAR HILLJOD

Location.- Lat. $34^{\circ}38'50''$, long. $119^{\circ}56'00''$, at uppermost diversion about 0.2 mile above middle fork of Eagle Canyon Creek and about 2.9 miles north of Highway 101.

Altitude.- About 425 feet, from topographic map.

Description.- Measuring site above junction box (stamped Smith Bros. 1924)

Diversion.- None above measuring point.

Remarks. - This diversion used by the Dreyfus estate does not look as though it were being used at the present time.

DATE		DISCHARGE	TEMP.
		Second-feet	Gals. per min. : °F
Feb. 15, 1946		less than	
		0.32	less than 9
Mar. 15	(3:30 p.m.)	less than	
		.01	less than 5
Apr. 7, 1947	(3:50 p.m.)	.01	4.5
May 5	(3:20 p.m.)	.01	4.5
Dec. 5	(10:10 a.m.)	No flow	No flow
Jan. 9, 1948	(9:30 a.m.)	No flow	No flow
Feb. 13	(9:05 a.m.)	No flow	No flow
Mar. 18	(9:30 a.m.)	No flow	No flow
Apr. 15	(9:00 a.m.)	No flow	No flow
May 14	(3:15 a.m.)	No flow	No flow
June 11	(9:30 a.m.)	No flow	No flow
July 21	(7:30 a.m.)	No flow	No flow
Aug. 19	(9:15 a.m.)	No flow	No flow
Sept. 15	(8:30 a.m.)	No flow	No flow
Oct. 19	(10:30 a.m.)	No flow	No flow
Nov. 17	(10:45 a.m.)	No flow	No flow
Dec. 13		No flow	No flow
Jan. 17, 1949	(2:20 p.m.)	.0020	.91
Mar. 16	(10:10 a.m.)	.073	33
Apr. 25	(9:15 a.m.)	.015	6.7
May 13	(9:35 a.m.)	.007	3.1
June 20	(2:10 p.m.)	.010	4.49
July 18	(9 a.m.)	.0023	1.03
Aug. 15	(9:15 a.m.)	.0022	.99
Sept. 13	(8:05 a.m.)	.003	1.4
Oct. 12	(10:15 a.m.)	.0034	1.53
Nov. 15	(10:30 a.m.)	.0032	1.44
Dec. 21	(8:50 a.m.)	.010	4.6
Jan. 19, 1950	(9:45 a.m.)	.048	22
Feb. 21	(10:45 a.m.)	.058	26
Mar. 14	(11:15 a.m.)	.032	14
Apr. 12	(8:20 a.m.)	.028	13

STATION 49

EAGLE CANYON CREEK NEAR ELLWOOD (Cont'd)

DATE	DISCHARGE		TEMP
	Second-feet	Gals. per min.	
May 11, 1950 (8:20 a.m.)	.021	9.4	53
June 14 (8:15 a.m.)	.016	7.2	53
July 28 (9:20 a.m.)	.005	2.2	58
Aug. 15 (8:45 a.m.)	.006	2.7	55
Nov. 1 (11:30 a.m.)	.0028	1.3	61
Nov. 27 (1:20 p.m.)	.0029	1.3	56
Dec. 15 (1:15 p.m.)	.0030	1.4	58
Jan. 22, 1951 (8:20 a.m.)	.009	4.0	49
Feb. 19 (11:30 a.m.)	.026	12	
Mar. 15 (9:00 a.m.)	.035	16	51
Apr. 26 (7:40 a.m.)	.013	5.8	
June 18 (7:45 a.m.)	.009	4.03	57
July 27 (12:40 p.m.)	.0027	1.21	
Sept. 12 (8:05 a.m.)	.0030	1.35	60
Oct. 24 (12:05 p.m.)	.0011	.51	57
Nov. 5 (8:15 a.m.)	.0016	.70	55
Dec. 11 (10:50 a.m.)	.0036	1.62	
Feb. 19, 1952 (10:05 a.m.)	.049	22	49
Apr. 3 (8:55 a.m.)	.17	76	55
May 14 (9:05 a.m.)	.038	17	56
June 4 (8:40 a.m.)	.030	13	

DOS PUEBLOS CREEK NEAR NAPLES.

Location.- Lat. $24^{\circ}29'10''$, long. $119^{\circ}57'10''$, at diversion of Dos Pueblos Ranch about 2.6 miles north of Highway 101 and about 2.2 miles north of Naples.

Established.- Recorder started at 3:00 p.m., Feb. 21, 1949.

Gage.- Recorder Stevens type F # 12805-49 (8 day)

Altitude.- About 520 feet, from topographic map.

Description.- Control is a combination 90° V-notch weir and overflow weir. Measuring site about 150 feet upstream.

Diversion.- No known diversions above station.

DATE		DISCHARGE	
		Second-feet	Gals. per min.
Feb. 15, 1946	(10:50 a.m.)	0.91	410
Mar. 15	(2:40 p.m.)	.75	340
Apr. 18	(8:35 a.m.)	1.20	540
May 5, 1947	(2:30 p.m.)	.52	230
June 18	(9:00 a.m.)	.40	180
July 17	(8:40 a.m.)	.40	180
Aug. 7	(2:15 p.m.)	.17	76
Sept. 10	(8:35 a.m.)	.40	180
Oct. 2	(8:45 a.m.)	.29	130
Dec. 5	(9:10 a.m.)	.49	220
Jan. 5, 1948	(8:50 a.m.)	.58	260
Feb. 18	(8:20 a.m.)	.67	300
Mar. 18	(8:45 a.m.)	.47	210
Apr. 16	(8:35 a.m.)	.64	290
May 14	(7:40 a.m.)	.47	210
June 11	(8:45 a.m.)	.39	180
July 21	(9:10 a.m.)	.33	150
Aug. 19	(8:50 a.m.)	.19	85
Sept. 15	(7:20 a.m.)	.052	23
Oct. 19	(11:10 a.m.)	.27	120
Oct. 22	(2:50 p.m.)	.28	130
Oct. 22	(3:05 p.m.)	.21	94
Oct. 22	(3:20 p.m.)	.21	94
Nov. 2		.23	100
Nov. 17	(12-noon)	.26	120
Dec. 14	(12:55 p.m.)	.36	160
Jan. 17, 1949	(3:45 p.m.)	.47	210
Feb. 2	(12:35 p.m.)	.50	220
Feb. 7	(11:05 a.m.)	.88	400
Mar. 4	(10:15 a.m.)	7.2	3200
Mar. 11	(12:25 p.m.)	6.9	3100
Mar. 16	(8:40 a.m.)	2.09	940
Mar. 29	(3:05 p.m.)	.89	400
Apr. 25	(8:10 a.m.)	.54	240

DOS PUEBLOS CREEK NEAR NAPLES - Contd.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.	: °F
May 13, 1949	(8:30 a.m.)	: 0.48	: 215	:
June 21	(8:00 a.m.)	: .43	: 195	:
July 18	(8:10 a.m.)	: .49	: 220	:
Aug. 15	(8:15 a.m.)	: .33	: 148	:
Sept. 9	(10:25 a.m.)	: .29	: 131	:
Oct. 12	(9:20 a.m.)	: .24	: 110	:
Nov. 15	(9:50 a.m.)	: .68	: 310	: 55
Nov. 29	(10:50 a.m.)	: .78	: 350	: 55
Dec. 15	(1:10 p.m.)	: .97	: 440	: 50
Jan. 9, 1950	(11:10 a.m.)	: .56	: 250	:
Jan. 11	(9:00 a.m.)	: 3.2	: 1400	:
Feb. 21	(9:05 a.m.)	: 1.3	: 590	:
Mar. 14	(9:45 a.m.)	: .86	: 390	: 50
Apr. 11	(12:20 p.m.)	: .68	: 300	:
May 5	(9:00 a.m.)	: .94	: 422	:
May 10	(8:30 a.m.)	: 1.04	: 467	:
June 13	(2:05 p.m.)	: .97	: 436	:
July 31	(8:10 a.m.)	: .94	: 420	:
Aug. 15	(7:40 a.m.)	: .07	: 33	:
Oct. 31	(1:50 p.m.)	: .37	: 166	:
Nov. 28	(8:15 a.m.)	: .43	: 193	:
Dec. 15	(10:20 a.m.)	: .52	: 236	:
Jan. 19, 1951	(8:55 a.m.)	: .84	: 375	:
Feb. 19	(12 M)	: .39	: 175	:
Mar. 15	(8:00 a.m.)	: .48	: 214	:
Apr. 17	(8:35 a.m.)	: 1.04	: 470	:
June 11	(1:25 p.m.)	: .63	: 308	: 62
July 24	(1:20 p.m.)	: .48	: 215	:
Aug. 24	(8:05 a.m.)	: .48	: 215	:
Sept. 25	(11:30 a.m.)	: .028	: 12	: a/
Oct. 24	(7:45 a.m.)	: .016	: 7.3	:
Nov. 9	(7:35 a.m.)	: .18	: 79	:
Dec. 12	(8:15 a.m.)	: .74	: 333	:
Feb. 19, 1952	(9:00 a.m.)	: 3.12	: 1,410	:
Apr. 4	(8:30 a.m.)	: 7.6	: 3,410	: 56
May 12	(1:45 p.m.)	: 2.52	: 1,130	: b/
June 4	(7:20 a.m.)	: 2.40	: 1,080	:

a/ Horizontal wells 50b & c cut-off Sept. 21, 1951.

b/ Horizontal wells opened May 10. Closed May 12.

STATION

50a

DOS PUEBLOS RANCH WELL ABOVE
DIVERSION IN DOS PUEBLOS CANYON

Location.— Lat. 34°29'15", Long. 119°57'10" about 1/4 mile above diversion.

Altitude.— About 550 feet, from topographic map.

Description.— Vertical well on west bank 50 feet from creek bed, drilled in 1949.

DATE	DISCHARGE		Water level in feet
	: Second-feet	: Gals. per min.	: below reference point
June 21, 1949	(8:00 a.m.): No flow	: No flow	: 12.53
July 13	(8:25 a.m.): No flow	: No flow	: 13.01
Feb. 21, 1950	(9:40 a.m.): No flow	: No flow	: 14.90
Mar. 14	(10:20 a.m.): No flow	: No flow	: 14.52
May 10	(8:45 a.m.): No flow	: No flow	: 15.34
July 31	(8:30 a.m.): No flow	: No flow	: 15.15
Aug. 15	(8:00 a.m.): No flow	: No flow	: 15.40
Oct. 31	(2:00 p.m.): No flow	: No flow	: 14.96
Nov. 20	(8:45 a.m.): No flow	: No flow	: 14.71
Dec. 15	(10:30 a.m.): No flow	: No flow	: 14.82
Jan. 19, 1951	(8:50 a.m.): No flow	: No flow	: 12.22
Feb. 19	(12:15 p.m.): No flow	: No flow	: 13.05
Mar. 15	(8:15 a.m.): No flow	: No flow	: 14.76
Apr. 17	(8:40 a.m.): No flow	: No flow	: 19.61
June 11	(1:20 p.m.): No flow	: No flow	: 14.74
July 24	(8:40 a.m.): No flow	: No flow	: 14.86
Aug. 24	(8:10 a.m.): No flow	: No flow	: 14.71
Sept. 25	(11:25 a.m.): No flow	: No flow	: 14.73.
Oct. 24	(7:55 a.m.): No flow	: No flow	: 14.65
Nov. 9	(7:50 a.m.): No flow	: No flow	: 14.51
Dec. 12	(8:10 a.m.): No flow	: No flow	: 14.47
Feb. 19, 1952	(9:20 a.m.): No flow	: No flow	: 12.07
Apr. 4	(8:10 a.m.): No flow	: No flow	: 10.68
May 16	(1:20 p.m.): No flow	: No flow	: 11.69
June 4	(7:35 a.m.): No flow	: No flow	: 12.10

STATION 50b

WELL - UPPER HORIZONTAL WELL ON THE DOS PUEBLOS RANCH

Location.- Lat. 34°31'05", long. 119°56'50", about 2.5 miles upstream from Dos Pueblos Ranch company's point of diversion and on the easterly side of the West Fork of Dos Pueblos Canyon Creek near Naples.

Altitude.- 1,985 feet. (Furnished by Ranch Co.).

Description.- 3-inch cased horizontal well extending 1,300 feet in northerly direction. This well is referred to as No. 129 by Dos Pueblos Ranch Company.

			Second-feet	Gals. per min.	°F
Dec. 15, 1949	(11:25 a.m.)	:	0.60	27	60
Feb. 21, 1950	(8:30 a.m.)	:	well closed		
May 10	(10:45 a.m.)	:	.36	161	63
June 13	(11:30 a.m.)	:	.31	140	62
July 31	(9:45 a.m.)	:	.24	108	63
Aug. 15	(8:15 a.m.)	:	well closed	Aug. 4	
Oct. 30	(9:10 a.m.)	:	well closed		
Nov. 25	(8:50 a.m.)	:	do		
Dec. 15	(10:00 a.m.)	:	do		
Jan. 19, 1951	(8:20 a.m.)	:	do		
Feb. 19	(1:00 p.m.)	:	do		
Mar. 15	(8:00 a.m.)	:	do		
Mar. 23		:	well opened		
Apr. 17	(10:15 a.m.)	:	.31	141	62
June 11	(11:55 a.m.)	:	.21	92	
July 24	(12 M)	:	.15	68	63
Aug. 24	(11:10 a.m.)	:	.13	59	62
Sept. 25	(Wells 50b & c cut-off Sept. 21, 1951)				
Oct. 24	Cutt-off				
Nov. 9	Cut-off				
Dec. 12	Cut-off				
Feb. 19, 1952	Cut-off				
Apr. 4	Cut-off				
May 12	(9:30 a.m.)	:	.53	238	62
June 4	Cut-off				

STATION

50c

WELL - HORIZONTAL WELL, DOS PUEBLOS RANCH

Location.- Lat. 34°31'00", long. 119°56'55", about 100 feet downstream from Station 50 and on the westerly side of the West Fork of Dos Pueblos Canyon Creek near Naples.

Altitude.- About 1950 feet, from figure furnished by Dos Pueblos Ranch Company.

Description.- Two 3-inch cased holes: (131a) is 1415 feet and (131b) 350 feet in a northerly direction. The two holes have a common discharge pipe.

DATE		DISCHARGE		TEMP.
		: Second-feet :	: Gals. per min. :	: °F :
Dec. 15, 1949	(11:35 a.m.) :	0.63 :	280 :	60 :
Feb. 21, 1950	(8:30 a.m.) :	cut off :	cut off :	:
May 10	(11:30 a.m.) :	.74 :	334 :	61 :
June 13	(12 M) :	.40 :	100 :	60 :
July 31	(9:55 a.m.) :	.43 :	195 :	61 :
Aug. 4	(8:15 a.m.) :	Well cut off :	:	:
Mar. 15, 1951	(8:00 a.m.) :	do :	:	:
Apr. 17	(10:30 a.m.) :	.55 :	246 :	61 :
June 11	(12 M) :	.38 :	168 :	:
July 24	(12:10 p.m.) :	.33 :	149 :	61 :
Aug. 24	(11:15 a.m.) :	.32 :	144 :	60 :
Sept. 25	Wells 50 b & c cut-off Sept. 21, 1951.			
Oct. 24	Cut-off			
Nov. 9	Cut-off			
Dec. 12	Cut-off			
Feb. 19, 1952	Cut-off			
Apr. 4	Cut-off			
May 12	(9:20 a.m.) :	.78 :	349 :	62 :

WELL, HORIZONTAL WELL, DOS PUEBLOS RANCH

Location.- Lat. $34^{\circ}30'55''$, long. $119^{\circ}56'15''$, on westerly side of the East Fork of Dos Pueblos Canyon Creek near Naples.

Altitude.- About 1,800 feet, from topographic map.

Description.- 6-inch cased horizontal well extending 785 feet in westerly direction; which later caved in at 470 feet. Drillers re-casing with 4-inch pipe.

DATE		DISCHARGE		TEMP	
		Second-foot	Gals. per min	F	
July 31, 1950	(11:35 a.m.)	.088	39	64	a
Oct. 31	(12 M)	.11	51	64	b
Nov. 28	(8:50 a.m.)		75		c
Apr. 17, 1951	(12:25 p.m.)	.072	33		d
June 11	(10:00 a.m.)	.058	26		
July 24	(10:50 a.m.)	.053	24	65	
Aug. 24	(9:55 a.m.)	.072	32	64	
Sept. 25	(10:00 a.m.)	.064	29	64	
Oct. 24	(9:50 a.m.)	.27	$\frac{1}{2}$ 120	63	
Nov. 9	(10:00 a.m.)	.39	$\frac{2}{2}$ 176		
Dec. 12	(9:00 a.m.)	$\frac{3}{4}$	120		
Feb. 19, 1952	(8:30 a.m.)	$\frac{4}{4}$			
Apr. 4	Cut-off				
May 12	(11:20 a.m.)	.45	202	65	
June 4	Wells cut-off				

- 1/ Driller pulled tools at 1830 feet for measurement.
 2/ Drillers at 2015 feet.
 3/ Hole at 2,300 feet.
 4/ Hole at 2,375, flowing 300 gals. per min. with tools out.

- a Well caved in at 470 feet.
 b Drillers just pulled tools.
 c Measurement furnished by Ranch Co. (Well at 476 feet.)
 d Tools in hole during measurement.

SPRING - W. H. WOODS

Location.- Lat. 34°29'30", long. 119°57'50"

Altitude.- About 750 feet, from topographic map.

Description.- Seepage intercepted by 345 foot tunnel in mountainside. Discharge measured at end of pipe line to reservoir.

DATE	DISCHARGE		TEMP.
	Second-feet	Gals per min.	
Nov. 1, 1948 (11:00 a.m.)	0.004	1.8	
Nov. 18	.0036	1.6	
Jan. 18, 1949 (10:25 a.m.)	.0055	2.4	
Mar. 15 (3:00 p.m.)	.026	12	
Apr. 27 (10:50 a.m.)	.0075	3.4	
May 13 (1:30 p.m.)	.0061	2.7	
June 21 (9:15 a.m.)	.0055	2.46	
July 21 (12:45 p.m.)	.0040	1.78	
Aug. 16 (1:15 p.m.)	.0037	1.65	79
Sept. 9 (8:50 a.m.)	.0035	1.55	61
Oct. 14 (8:50 a.m.)	.0035	1.58	62
Nov. 15 (9:05 a.m.)	.0044	1.95	65
Dec. 21 (10:30 a.m.)	*	*	
Jan. 19, 1950 (8:00 a.m.)	*	*	
Feb. 21 (1:45 p.m.)	*	*	
Mar. 14 (9:10 a.m.)	.010	4.5	55
Apr. 11 (11:30 a.m.)	.0083	3.7	65
May 19 (9:10 a.m.)	.0055	2.5	55
June 13 (8:10 a.m.)	.0045	2.0	56
July 28 (8:15 a.m.)	.0039	1.8	58
Aug. 11 (8:25 a.m.)	.0034	1.5	58
Oct. 31 (8:40 a.m.)	.0038	1.7	55
Nov. 28 (9:20 a.m.)	.0047	2.2	53
Dec. 15 (9:40 a.m.)	*	*	
Jan. 19, 1951 (7:55 a.m.)	*	*	
Feb. 13 (10:25 a.m.)	*	*	
Mar. 15 (7:40 a.m.)	*	*	
Apr. 17 (7:55 a.m.)	.0050	2.2	56
June 11 (7:35 a.m.)	.0035	1.58	54
July 24 (7:45 a.m.)	.0033	1.48	58
Aug. 24 (7:35 a.m.)	.0029	1.32	56
Sept. 25 (7:40 a.m.)	.0030	1.30	61
Oct. 12 (11:10 a.m.)	.0029	1.33	73
Nov. 5 (8:05 a.m.)	.0028	1.28	55
Dec. 4 (10:20 a.m.)	.0052	2.66	57
Feb. 19, 1952 (8:00 a.m.)	Dam filled with debris by March rains.		
Apr. 3 (8:05 a.m.)	Lines from spring submerged.		
May 14 (8:20 a.m.)	.011	5	56
June 3 (11:25 a.m.)	.0096	4.28	60 **

* Reservoir full - inlet pipes submerged.

** Reservoir abandoned. Diversion 150 feet above.

LAS VARRAS CANYON CREEK ABOVE DIVERSIONS.

Location.- Lat. $34^{\circ}29'30''$, Long. $119^{\circ}57'50''$, at end of roadway, above Lemon Grove in Las Varras Canyon about 2.3 miles north of Highway 101.

Altitude.- About 550 feet, from topographic map.

Description.- Measuring site in stream channel above uppermost diversion.

DATE	DISCHARGE	
	: Second-feet	: Gals. per min.
Nov. 29, 1948	: No flow	: No flow
Dec. 14 (1:25 p.m.)	: No flow	: No flow
Jan. 13, 1949 (10:00 a.m.)	: No flow	: No flow
May 13 (1:20 p.m.)	: No flow	: No flow
June 21 (9:15 a.m.)	: No flow	: No flow
Jan. 19, 1950 (7:55 a.m.)	: No flow	: No flow

LAS VARAS CANYON CREEK AT RUSSELL DOTY DIVERSION

Location.- Lat. $31^{\circ}23'50''$, Long. $119^{\circ}57'50''$, at diversion dam in Las Varas Canyon on Russell E. Doty property, about 18 miles north of Highway 101.

Altitude.- About 400', from topographic map.

Description.- Measuring site in natural channel above diversion. Diversion made through a 3-inch line to wooden tank about 2,000 feet downstream.

Diversion.- There are several diversions above this point of measurement.

DATE		DISCHARGE	
		: Second-feet	: Gals. per min.
Dec. 13, 1948		: No flow	: No flow
Jan. 18, 1949	(10:05 a.m.)	: No flow	: No flow
Mar. 29	(12:45 p.m.)	: No flow	: No flow
Apr. 27	(10:40 a.m.)	: No flow	: No flow
May 13	(1:10 p.m.)	: No flow	: No flow
June 21	(9:05 a.m.)	: No flow	: No flow
July 21	(11:55 a.m.)	: No flow	: No flow
Aug. 16	(1:00 p.m.)	: No flow	: No flow
Sept. 9	(9:00 a.m.)	: No flow	: No flow
Oct. 14	(8:30 a.m.)	: No flow	: No flow
Nov. 15	(8:55 a.m.)	: No flow	: No flow
Dec. 21	(9:45 a.m.)	: No flow	: No flow
		:	:
		:	:
		:	:

LAS VARAS CANYON CREEK AT LOWER DOTY DIVERSION

Location.- Lat. $34^{\circ}28'00''$, long. $119^{\circ}58'00''$, at diversion dam in Las Varas Canyon on Russell L. Doty property, about 0.7 mile north of Highway 101.

Altitude.- About 240', from topographic map.

Description.- Discharge obtained by measuring the diversion and waste bypassing the diversion.

Diversions.- Several above.

Remarks.- This is lowest diversion in canyon with several diversions and deep wells above.

DATE	DISCHARGE		TEMP.
	Second-feet	Gals per min.	
Dec. 13, 1948	: 0.013	: 5.95	:
Jan. 18, 1949 (9:00 a.m.)	: .014	: 6.4	:
Mar. 29 (12:20 p.m.)	: .018	: 8.1	:
Apr. 27 (10:20 a.m.)	: .017	: 7.6	:
May 13 (1:00 p.m.)	: No meast.	: No meast.	:
June 21 (8:50 a.m.)	: No meast.	: No meast.	:
July 21 (11:45 a.m.)	: .0049	: 2.19	:
Aug. 16 (12:50 p.m.)	: .0029	: 1.28	: 63
Sept. 9 (9:15 a.m.)	Unable to measure		:
Oct. 14 (8:25 a.m.)	: .0072	: 3.2	: 60
Nov. 15 (8:30 a.m.)	: .010	: 4.5	: 50
Dec. 21 (9:30 a.m.)	: .018	: 8.1	: 40
Jan. 19, 1950 (8:35 a.m.)	: .016	: 7.4	:
Feb. 21 (1:20 p.m.)	: .016	: 7.3	:
Mar. 14 (8:50 a.m.)	: .018	: 7.9	: 46
Apr. 11 (11:10 a.m.)	: .016	: 7.1	: 57
May 19 (8:05 a.m.)	: .023	: 10	: 50
June 13 (7:50 a.m.)	: .0098	: 4.4	: 54
July 23 (7:55 a.m.)	: .019	: 8.5	: 57
Aug. 11 (8:00 a.m.)	: .005	: 2.2	: 55
Oct. 31 (8:15 a.m.)	: .0093	: 4.2	: 55
Nov. 26 (9:00 a.m.)	: .012	: 5.4	: 50
Dec. 15 (9:15 a.m.)	: .016	: 7.1	: 55
Jan. 19, 1951 (8:15 a.m.)	: .005	: 11	: 49
Feb. 15 (10:10 a.m.)	: .015	: 6.8	: 49
Mar. 15 (7:15 a.m.)	: .012	: 5.4	: 49
Apr. 17 (7:25 a.m.)	: .013	: 5.8	: 55
June 11 (7:15 a.m.)	: .0062	: 2.78	: 49
July 24 (7:30 a.m.)	: .0068	: 3.06	: 56
Aug. 24 (7:25 a.m.)	No measurement. Sandbox full of water Inlet pipe submerged.		
Sept. 25 (7:25 a.m.)	:	do	:
Oct. 12 (10:35 a.m.)	:	do	:
Nov. 5 (7:45 a.m.)	:	do	:
Dec. 4 (10:00 a.m.)	: .013	: 5.8	: 53 *
Feb. 9, 1952 (7:40 a.m.)	: .022	: 9.8	: 43
Apr. 3 (7:30 a.m.)	: .14	: 63	: 55
May 14 (7:30 a.m.)	: .058	: 26	: 57
June 3 (11:00 a.m.)	: .039	: 17	: 62

GATO CANYON CREEK ABOVE DIVERSIONS

Location.- Lat. 34°29'50", 117°58'10", at end of roadway up Gato Canyon, about 2.8 miles north of Highway 101.

Altitude.- About 1,100 feet, from topographic map.

Description.- Measuring site in stream channel about 50 feet above diversion. During low flow periods, volumetric measurements made in junction box about 200 feet below point of diversion, owned by Edwards estate.

Diversion.- No known diversions above station.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.:	
Nov. 1, 1948	(9:30 a.m.)	No flow	No flow	:
Nov. 17	(12:45 p.m.)	No flow	No flow	:
Nov. 22		No flow	No flow	:
Nov. 30	(11:30 a.m.)	No flow	No flow	:
Dec. 14	(12:15 p.m.)	No flow	No flow	:
Jan. 18, 1949	(12-noon)	0.050	22	:
Mar. 24	(9:40 a.m.)	.56	250	:
Apr. 27	(12:30 p.m.)	.063	28	:
May 12	(1:20 p.m.)	.076	34	:
June 21	(10:00 a.m.)	.050	22.3	:
July 21	(11:25 a.m.)	.0036	1.63	:
Aug. 17	(7:30 a.m.)	No flow	No flow	:
Oct. 14	(7:45 a.m.)	No flow	No flow	:
Nov. 15	(8:00 a.m.)	No flow	No flow	:
Dec. 27	(8:30 a.m.)	.20	90	:
Jan. 23, 1950	(8:15 a.m.)	.31	137	: 54
Feb. 20	(2:30 p.m.)	.32	140	:
Mar. 14	(8:00 a.m.)	.096	43	: 49
Apr. 11	(9:45 a.m.)	.078	35	: 57
May 19	(10:05 a.m.)	.061	27	: 58
June 9	(7:50 a.m.)	.049	22	: 58
July 24	(1:00 p.m.)	.0015	.7	: 102
Aug. 11	(9:15 a.m.)	.00080	.4	: 72
Oct. 31	(7:55 a.m.)	No flow		:
Nov. 28	(10:25 a.m.)	.030	14	: 58
Dec. 15	(8:15 a.m.)	.016	7	: 56
Jan. 23, 1951	(9:10 a.m.)	.057	26	: 52
Feb. 15	(9:45 a.m.)	.055	24	: 53
Mar. 16	(7:10 a.m.)	.050	23	: 53
Apr. 18	(11:25 a.m.)	.035	16	:

GATO CANYON CREEK ABOVE DIVERSIONS (Cont'd)

DATE		DISCHARGE		TEMP	REMARKS
		Second- feet	Gals. per min.	°F	
1951					
June 18	(10:45 a.m.)	.0026	1.17	66	
July 27	(11:50 a.m.)	No	flow		
Sept. 11	(11:05 a.m.)		do		
Oct. 12	(10:00 a.m.)		do		
Nov. 2	(12M)		do		
Dec. 11	(10:05 a.m.)	.045	20	53	
Feb. 18	(12:15 p.m.)	.85	382	51	
Apr. 2	(12:25 p.m.)	2.26	1020	60	
May 8	(1:30 p.m.)	.62	228	60	
June 2	(10:45 a.m.)	No meas.			Gate locked at highway

LAS YEGUAS CANYON CREEK

Location.- Lat. $34^{\circ}28'20''$, Long. $119^{\circ}59'30''$, in Las Yeguas Canyon at road-crossing about 0.7 mile north of Highway 101.

Altitude.- About 150 feet, from topographic map.

Description.- Measurements made volumetrically or with current meter in the channel near the road-crossing.

Diversions.- No known diversions above station.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
Nov. 1, 1943	(8:45 a.m.)	0.004	1.8	
Nov. 17	(1:15 p.m.)	.017	7.8	
Nov. 23		.017	7.8	
Nov. 30		.019	8.6	
Dec. 14	(11:45 a.m.)	.024	11	
Jan. 13, 1949	(1:30 p.m.)	.032	14	
Mar. 17, 1949	(12:45 p.m.)	.036	43	
Apr. 27	(9:40 a.m.)	.054	24	
May 12	(12:15 p.m.)	.033	15	
June 21	(11:00 a.m.)	.029	13	
July 21	(10:35 a.m.)	.019	8.6	
Aug. 17	(8:30 a.m.)	.015	6.7	58
Sept. 9	(7:30 a.m.)	.013	5.8	59
Oct. 13		.014	6.2	58
Nov. 16	(12:50 p.m.)	.019	8.3	54
Dec. 21	(12:30 p.m.)	.042	19	45
Jan. 18, 1950	(12:25 p.m.)	.039	40	
Feb. 20	(11:55 a.m.)	.11	50	
Mar. 13	(12:30 p.m.)	.079	35	52
Apr. 11	(8:05 a.m.)	.066	29	49
May 19	(11:15 a.m.)	.042	19	55
June 9	(9:05 a.m.)	.037	17	53
July 24	(11:15 a.m.)	.024	11	63
Aug. 11	(10:10 a.m.)	.019	8.6	58
Nov. 1	(10:05 a.m.)	.022	10	55
Nov. 28	(11:20 a.m.)	.064	29	54
Dec. 13	(11:30 a.m.)	.039	18	56
Jan. 23, 1951	(7:50 a.m.)	.11	49	49
Feb. 15	(8:40 a.m.)	.15	67	48
Mar. 16	(8:10 a.m.)	.070	32	50
Apr. 13	(10:40 a.m.)	.066	30	
June 18	(11:30 a.m.)	.032	14.3	58
July 27	(10:15 a.m.)	.016	7.3	60
Sept. 11	(10:15 a.m.)	.021	9.4	60
Oct. 12	(9:20 a.m.)	.017	7.6	55
Nov. 2	(11:00 a.m.)	.025	11.4	59
Dec. 11	(9:05 a.m.)	.070	31	44
Feb. 13, 1952	(1:05 p.m.)	.25	112	52
Apr. 2	(11:15 a.m.)	.53	237	57
May 8	(11:35 a.m.)	.17	75	60
June 3	(10:20 a.m.)	.10	46	59

SPRING - EDWARDS ESTATE

Location. - Lat. $34^{\circ}28'00''$, Long. $119^{\circ}59'30''$

Altitude. - About 120 feet from topographic map.

Description. - Wood-curbed spring box, 8 feet by 12 feet, east side of Las Yeguas Creek, at foot sandstone bluff. Discharge measured at 1-3/4 inch overflow pipe from spring box.

DATE	DISCHARGE		TEMP. °F
	Second-feet	Gals. per min.	
Nov. 23, 1948	.020	9.2	
Mar. 29, 1949 (10:35 a.m.)	.027	12	
Apr. 27 (9:25 a.m.)	.026	12	
May 12 (12:25 p.m.)	No meas.	No meas.	
June 21 (11:05 a.m.)	.017	7.5	
July 21 (10:30 a.m.)	.029	13.2	
Aug. 17 (8:15 a.m.)	No meas.	No meas.	
Sept. 9 (7:45 a.m.)	No meas.	No meas.	
Sept. 9 (12:30 p.m.)	.019	8.6	
Oct. 13 (12:30 p.m.)	.020	8.8	65
Nov. 16 (1:27 p.m.)	.022	9.8	65
Dec. 21 (11:59 a.m.)	.023	10	65
Jan. 18, 1950 (12:10 p.m.)	.030	13	
Feb. 20 (11:45 a.m.)	.029	13	
Mar. 13 (12:25 p.m.)	.031	14	64
Apr. 11 (7:55 a.m.)	.030	14	65
May 19 (11:00 a.m.)	.038	17	65
June 9 (8:50 a.m.)	.022	10	65
July 24 (10:55 a.m.)	.017	7.7	
Aug. 11 (10:30 a.m.)	Pump on		
Nov. 1 (10:15 a.m.)	Pump on		
Nov. 28 (11:10 a.m.)	.027	12	65
Dec. 18 (11:15 a.m.)	.023	10	65
Jan. 23, 1951 (7:35 a.m.)	.027	12	65
Feb. 15 (8:25 a.m.)	.028	13	65
Mar. 16 (8:00 a.m.)	.026	12	66
Apr. 18 (10:30 a.m.)	-	-	Crew work- ing on spr.
June 18 (11:25 a.m.)	.025	11.3	65 *
July 27 (10:10 a.m.)	.018	8.3	63
Sept. 11 (10:00 a.m.)	No measurement.	Pump off, tank filling.	
Oct. 12 (9:30 a.m.)	do		
Nov. 2 (10:50 a.m.)	.023	10.4	66
Dec. 11 (8:50 a.m.)	Pump off; tank filling.		
Feb. 18, 1952 (12:55 p.m.)	.026	11.9	65
Apr. 2 (11:05 a.m.)	.028	12.6	66
May 8 (11:25 a.m.)	.027	12.1	67
June 3 (10:10 a.m.)	.024	10.6	66

* New concrete crib since last visit.

LAS VEGAS CANYON CREEK AT HIGHWAY 101.

Location.— Lat. $34^{\circ}27'40''$, Long. $100^{\circ}00'00''$, at Highway 101 road crossing, about 0.2 mile north of the Pacific Ocean.

Altitude.— About 40', from topographic map.

Description.— Measuring site in the natural stream channel just below the bridge culvert.

Diver.sion.— Edwards Estate diverts from Spring #62 above.

DATE	DISCHARGE		TEMP.
	: Second-feet	: Gals. or min.:	
Nov. 10, 1948	: 0.11	: 50	:
Jan. 13, 1949 (2:02 p.m.)	: .16	: 72	:
Mar. 15 (1:05 p.m.)	: .25	: 110	:
Apr. 27 (9:50 a.m.)	: .16	: 71	:
May 12 (12:40 p.m.)	: .11	: 48	:
June 21 (11:35 a.m.)	: .11	: 50	:
July 21 (10:50 a.m.)	: .097	: 43.6	:
Aug. 17 (8:00 a.m.)	: .10	: 45	: 59
Sept. 9 (7:55 a.m.)	: .089	: 40	:
Oct. 13 (1:00 p.m.)	: .074	: 33	: 62
Nov. 16 (12:30 p.m.)	: .15	: 67	: 57
Dec. 21 (11:00 a.m.)	: .13	: 57	:
Jan. 13, 1950 (11:33 a.m.)	: .20	: 91	: 53
Feb. 20 (12:10 p.m.)	: .25	: 110	:
Mar. 13 (12:50 p.m.)	: .25	: 110	: 53
Apr. 11 (9:05 a.m.)	: .23	: 105	: 55
May 9 (10:45 a.m.)	: .17	: 77	: 57
June 9 (8:30 a.m.)	: .18	: 79	: 55
July 24 (11:35 a.m.)	: .12	: 54	: 65
Aug. 11 (9:45 a.m.)	: .085	: 38	: 58
Nov. 1 (10:45 a.m.)	: .10	: 47	: 59
Nov. 28 (10:50 a.m.)	: .18	: 79	: 54
Dec. 18 (11:00 a.m.)	: .17	: 78	: 55
Jan. 23, 1951 (8:30 a.m.)	: .23	: 103	: 54
Feb. 15 (9:10 a.m.)	: .24	: 106	: 51
Mar. 16 (7:45 a.m.)	: .18	: 82	: 52
Apr. 18 (10:55 a.m.)	: .18	: 83	:
June 18 (11:10 a.m.)	: .14	: 64	: 60
July 27 (11:30 a.m.)	: .090	: 40	: 62
Sept. 11 (10:45 a.m.)	: .12	: 55	: 62
Oct. 12 (9:45 a.m.)	: .10	: 45	: 56
Nov. 2 (11:30 a.m.)	: .10	: 45	: 59
Dec. 11 (9:30 a.m.)	: .15	: 67	: 48
Feb. 18, 1952 (12:40 p.m.)	: .41	: 183	: 54
Apr. 2 (11:35 a.m.)	: .80	: 360	: 60
May 8 (12M)	: .26	: 118	: 62
June 3 (10:35 a.m.)	: .26	: 116	: 59

SPRING - GILA LAND COMPANY

Location. - Lat. $34^{\circ}28'10''$, long. $120^{\circ}00'30''$.

Altitude. - About 230 feet, from topographic map.

Description. - Seep in creek bed.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	$^{\circ}\text{F}$
Nov. 24, 1948		Almost dry	Almost dry	
Jan. 18, 1949		.00020	0.88	
Mar. 29	(11:30 a.m.)	.0044	2.0	
May 12	(1:50 p.m.)	No flow	No flow	
Sept. 12	(10:50 a.m.)	No flow	No flow	
Oct. 13	(11:15 a.m.)	.00069	.31	59
Nov. 17	(9:30 a.m.)	No flow	No flow	
Dec. 27	(9:15 a.m.)	No flow	No flow	
Jan. 18, 1950	(1:20 p.m.)	No flow	No flow	
Feb. 20	(11:25 a.m.)	.0062	2.8	
Mar. 13	(12:05 p.m.)	.005	2.2	
Apr. 11	(8:45 a.m.)	.002	.90	54
May 19	(11:40 a.m.)	.0022	1.0	53
June 9	(9:25 a.m.)	.006	2.7	
July 24	(10:30 a.m.)	.0023	1.0	65
Aug. 11	(10:50 a.m.)	No flow	No flow	
Nov. 1	(10:35 a.m.)	.00043	.2	60
Nov. 28	(10:20 a.m.)	.0014	.6	55
Dec. 18	(11:55 a.m.)	.0017	.8	56
Jan. 23, 1951	(8:15 a.m.)	.0015	.7	49
Feb. 15	(8:55 a.m.)	.0027	1.2	49
Mar. 16	(8:20 a.m.)	.0027	1.2	50
Apr. 18	(10:10 a.m.)	.0022	1.0	
June 18	(11:45 a.m.)	.0014	.62	60
July 27	(11:15 a.m.)	No flow	No flow	
Sept. 11	(10:30 a.m.)	No flow	No flow	
Oct. 12	(9:35 a.m.)	No flow	No flow	
Nov. 2	(11:10 a.m.)	No flow	No flow	
Dec. 11	(9:20 a.m.)	No flow	No flow	
Feb. 18, 1952	(2:00 p.m.)	.010	4.47	56
Apr. 2	(10:45 a.m.)	.077	35	60
May 8	(11:10 a.m.)	.016	7	62
June 3	(10:00 a.m.)	.012	6	59

CAPITAN CREEK ABOVE GILA LAND COMPANY DIVERSION

Location.— Lat. $34^{\circ}29'45''$, long. $110^{\circ}00'00''$, above diversion at end of roadway, about 2.4 miles north of Highway 101.

Altitude.— About 300 feet, from topographic map.

Description.— Measuring site in natural channel about 200 feet upstream of the concrete diversion dam of Gila Land Company.

Diversion.— No known diversions above station.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.	: °F
Oct. 28, 1948	(11:10 a.m.)	: .091	: 42	:
Nov. 17	(2:10 p.m.)	: .037	: 17	:
Nov. 24		: .036	: 16	:
Nov. 30	(10:00 a.m.)	: .072	: 32	:
Dec. 14	(10:50 a.m.)	: .17	: 76	:
Jan. 13, 1949	(3:10 p.m.)	: .20	: 90	:
Mar. 15	(11:35 a.m.)	: 1.08	: 465	:
Apr. 27	(8:35 a.m.)	: .30	: 135	:
May 12	(11:15 a.m.)	: .24	: 109	:
June 21	(12 noon)	: .13	: 58	: 59
July 21	(9:40 a.m.)	: .012	: 5.4	:
Aug. 17	(9:20 a.m.)	: .033	: 15	: 59
Sept. 12	(10:15 a.m.)	: No flow	: No flow	:
Oct. 13	(10:15 a.m.)	: .0041	: 1.83	: 54
Nov. 17	(8:25 a.m.)	: .047	: 21	: 55
Dec. 27	(11:55 a.m.)	: .18	: 80	: 48
Jan. 18	(10:40 a.m.)	: .42	: 190	: 49
Feb. 20	(10:40 a.m.)	: .72	: 320	:
Mar. 13	(11:30 a.m.)	: .34	: 150	: 54
Apr. 10	(11:40 a.m.)	: .24	: 106	: 54
June 9	(10:05 a.m.)	: .092	: 43	: 56
July 24	(9:45 a.m.)	: .028	: 13	: 60
Aug. 11	(11:00 a.m.)	No meas - Gage locked. No caretaker at house		
Nov. 1	(9:20 a.m.)	: .049	: 22	: 59
Nov. 28	(1:00 p.m.)	: .11	: 51	: 56
Dec. 18	(9:45 a.m.)	: .088	: 39	: 56
Jan. 23, 1951	(10:00 a.m.)	: .16	: 70	: 52
Feb. 15	(7:45 a.m.)	: .14	: 65	: 53
Mar. 16	(9:55 a.m.)	: .14	: 62	: 55
Apr. 18	(9:30 a.m.)	: .11	: 48	:

CAPITAN CREEK ABOVE GILA LAND COMPANY DIVERSION (Cont'd)

DATE		DISCHARGE		TEMP	REMARKS
		Second- feet	Gals. per min	°F	
1951					
June 18	(11:25 a.m.)	.077	34	57	
July 27	(9:20 a.m.)	No flow			
Sept 11	(9:40 a.m.)	.0011	.49	58	Measured at break in 6-inch line 100 ft below point of diversion.
Oct. 12	(8:40 a.m.)	.00059	.26	54	
Nov. 2	(10:10 a.m.)	.00040	.18	69	
Dec. 11	(8:15 a.m.)	.047	21	49	
1952					
Feb. 18	(10:30 a.m.)	2.35	1060	51	
Apr. 2	(10:10 a.m.)	7.8	3490	56	6 inch diversion line broke about 150 feet below point of diversion.
May 8	(10:45 a.m.)	2.04	920	56	
June 3	(9:30 a.m.)	1.39	625	57	

SPRING - GEORGE M. WILLIAMS ESTATE

Location. - Lat. 34°29'10", long. 120°02'10"

Altitude. - About 300 feet from topographic map.

Description. - Seepage at foot of sandstone cliff.

DATE	DISCHARGE		TEMP.
	: Second-feet	: Gals. per min.:	
Nov. 16, 1948 (estimated)	: 0.001	: 0.67	:
Jan. 19, 1949 (9:15 a.m.)	: .0031	: 1.4	:
Mar. 29 (9:15 a.m.)	: .0031	: 1.4	:
May 12 (9:15 a.m.)	: .0029	: 1.3	:
June 21 (1:10 p.m.)	: .0024	: 1.1	: ?
July 21 (8:45 a.m.)	: .0030	: 1.4	: 62
Aug. 17 (10:30 a.m.)	: .0027	: 1.2	: 66
Sept. 12 (9:10 a.m.)	: .0025	: 1.1	: 63
Oct. 13 (9:45 a.m.)	: .0029	: 1.3	: 62
Nov. 17 (10:10 a.m.)	: .0027	: 1.2	: 62
Dec. 27 (12:50 p.m.)	: .0029	: 1.3	: 62
Jan. 18, 1950 (9:05 a.m.)	: .0030	: 1.4	: 59
Feb. 26 (9:15 a.m.)	: .0027	: 1.2	:
Mar. 13 (10:00 a.m.)	: .0025	: 1.1	: 60
Apr. 10 (9:10 a.m.)	: .0024	: 1.1	: 59
June 9 (11:15 a.m.)	: .0021	: .9	: 64
July 24 (8:05 a.m.)	: .0027	: 1.2	: 66
Aug. 11 (11:25 a.m.)	: .0028	: 1.2	: 64
Nov. 1 (8:00 a.m.)	: .0024	: 1.1	: 61
Nov. 30 (8:45 a.m.)	: .0013	: .6	: 60
Dec. 18 (8:20 a.m.)	: .0014	: .6	: 56
Jan. 23, 1951 (11:10 a.m.)	: .0027	: 1.2	: 64
Feb. 26 (8:25 a.m.)	: .0025	: 1.1	: 64
Mar. 16 (9:55 a.m.)	: .0027	: 1.2	: 60
Apr. 18 (8:10 a.m.)	: .0024	: 1.1	:
June 18 (1:25 p.m.)	: .0018	: .80	: 64
July 27 (8:00 a.m.)	: .00046	: .21	: 57
Sept. 11 (8:25 a.m.)	: .0026	: 1.17	: 60
Oct. 12 (12M)	: .0022	: 1.00	:
Nov. 2 (8:40 a.m.)	: .0021	: .96	: 60
Dec. 4 (8:50 a.m.)	: .0020	: .90	: 59
Feb. 18, 1952 (9:50 a.m.)	: .0007	: .30	: 52 *
Apr. 2 (9:45 a.m.)	: .00066	: .29	: 60 *
May 8 (9:55 a.m.)	: .0024	: 1.02	: 60
June 3 (9:05 a.m.)	: .0024	: 1.07	: 60

* Some flow being wasted. line plugged.

CORRAL CREEK

Location.- Lat. $34^{\circ}29'00''$, long. $120^{\circ}02'20''$, in Canada del Corral about 1.4 miles north of Highway 101.

Altitude.- About 250 feet, from topographic map.

Description.- Measuring site in natural channel at or near cattle pen.

Diversion.- From one spring above station.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
Oct. 28, 1948	(10:15 a.m.)	0.031	14	
Nov. 19	(9:15 a.m.)	.037	17	
Nov. 30	(9:05 a.m.)	.022	9.9	
Dec. 14	(10:00 a.m.)	.029	13	
Jan. 19, 1949	(9:30 a.m.)	.11	50	
Mar. 15	(10:20 a.m.)	1.02	460	
May 12	(9:25 a.m.)	.14	65	
June 21	(1:15 p.m.)	.058	26	
July 21	(8:35 a.m.)	.051	23	59
Aug. 17	(10:25 a.m.)	.031	14	59
Sept. 12	(9:00 a.m.)	.028	12	59
Oct. 13	(8:35 a.m.)	.028	12.6	54
Nov. 17	(10:05 a.m.)	.025	11.4	50
Dec. 27	(1:00 p.m.)	.13	59	
Jan. 18, 1950	(9:10 a.m.)	.56	250	50
Feb. 20	(9:20 a.m.)	.47	210	
Mar. 13	(10:40 a.m.)	.26	120	50
Apr. 10	(9:20 a.m.)	.19	85	51
June 9	(11:25 a.m.)	.076	34	60
July 24	(8:20 a.m.)	.038	17	55
Aug. 11	(11:30 a.m.)	.020	9.4	60
Nov. 1	(7:55 a.m.)	.040	18	55
Nov. 30	(8:40 a.m.)	.050	22	54
Dec. 16	(8:15 a.m.)	.051	23	50
Jan. 23, 1951	(11:15 a.m.)	.089	40	53
Feb. 26	(8:20 a.m.)	.14	62	49
Mar. 16	(9:50 a.m.)	.13	60	55
Apr. 18	(8:05 a.m.)	.095	43	
June 18	(1:20 p.m.)	.042	19	64
July 27	(7:55 a.m.)	.026	12	59
Sept. 11	(8:20 a.m.)	.0089	4.0	60
Oct. 12	(11:55 a.m.)	.0024	1.07	60
Nov. 2	(8:45 a.m.)	.023	10	52
Dec. 4	(8:45 a.m.)	.042	19	53
Feb. 18, 1952	(10:40 a.m.)	1.46	654	50
Apr. 2	(9:30 a.m.)	2.88	1300	55
May 8	(9:05 a.m.)	1.04	464	55
June 3	(8:10 a.m.)	.63	283	56

SPRING - GEORGE M. WILLIAMS ESTATE

Location.- Lat. 34°29'20", long. 120°02'30"

Altitude.- About 350 feet, from topographic map.

Description.- Flow from narrow canyon in sandstone. Discharge measured at outlet of natural pool.

DATE	DISCHARGE		TEMP.
	Second-feet	Gals. per min.	
Nov. 16, 1948	: 0.0089	: 4.0	:
Jan. 19, 1949 (10:30 a.m.)	: .0076	: 3.4	:
Mar. 29 (9:45 a.m.)	: .011	: 4.9	:
May 12 (10:10 a.m.)	: .0036	: 1.6	:
Oct. 13 (9:00 a.m.)	: .00063	: .28	: 58
Nov. 17 (10:40 a.m.)	: .0032	: 1.4	: 57
Dec. 27 (1:20 p.m.)	: .006	: 2.7	:
Jan. 18, 1950 (9:45 a.m.)	: .0044	: 2.0	: 50
Feb. 20 (9:45 a.m.)	: .0094	: 4.2	:
Mar. 13 (10:25 a.m.)	: .008	: 3.6	:
Apr. 10 (10:00 a.m.)	: .004	: 1.8	: 57
June 9 (11:45 a.m.)	: .004	: 1.8	: 65
July 24 (8:45 a.m.)	: .007	: 3.1	: 62
Aug. 11 (12 M)	: .004	: 1.8	: 68
Nov. 1 (8:20 a.m.)	: .0037	: 1.7	:
Nov. 30 (9:20 a.m.)	: .0020	: .9	: 54
Dec. 18 (8:50 a.m.)	: .0010	: .5	: 56
Jan. 23, 1951 (11:40 a.m.)	: .0048	: 2.1	: 55
Feb. 26 (8:45 a.m.)	: .0080	: 3.6	: 56
Mar. 16 (10:15 a.m.)	: .0052	: 2.3	: 54
Apr. 18 (8:35 a.m.)	: .0031	: 1.4	:
June 18 (1:40 p.m.)	: .0012	: .52	: 58
July 27 (8:20 a.m.)	: .0015	: .68	: 59
Sept. 11 (8:50 a.m.)	: .0024	: 1.07	: 61
Oct. 12 (12:25 p.m.)	: .0013	: .60	:
Nov. 2 (9:10 a.m.)	: .0034	: 1.53	: 55
Dec. 4 (9:20 a.m.)	: .0062	: 2.78	: 52
Feb. 18, 1952 (10:15 a.m.)	: .057	: 26	: 51
Apr. 2 (9:15 a.m.)	: .047	: 21	: 55
May 8 (9:30 a.m.)	: .014	: 6	: 57
June 3 (8:35 a.m.)	: .0039	: 1.76	: 56

SPRING - COVARRUBIAS ESTATE

Location.- Lat. $34^{\circ}28'20''$, long. $120^{\circ}02'30''$.

Altitude.- About 100 feet, from topographic map.

Description.- Seepage into creek above diversion dam. Discharge measured at sandbox about 120 feet downstream from diversion dam.

DATE	DISCHARGE		TEMP.
	Second-feet	Gals. per min.	
Nov. 16, 1948	0.0045	2.0	
Mar. 29, 1949 (8:40 a.m.)	.40	180	
May 12 (10:30 a.m.)	.069	31	
June 21 (1:30 p.m.)	.028	12.6	
July 21 (8:20 a.m.)	.00090	.40	
Aug. 17 (10:15 a.m.)	.0027	1.2	
Sept. 12 (8:40 a.m.)	.011	4.9	
Oct. 13 (8:15 a.m.)	.004	1.8	
Nov. 17 (9:50 a.m.)	.002	.90	58
Dec. 27 (12:25 p.m.)	.10	45	53
Jan. 18, 1950 (8:35 a.m.)	.56	250	51
Feb. 20 (8:40 a.m.)	.52	240	
Mar. 13 (9:30 a.m.)	.30	140	
Apr. 10 (8:45 a.m.)	.27	120	51
June 9 (10:50 a.m.)	.072	32	60
July 24 (7:50 a.m.)	.009	4.0	61
Aug. 11 (11:15 a.m.)	.009	4.0	62
Nov. 1 (7:35 a.m.)	.002	.9	59
Nov. 30 (8:20 a.m.)	.0042	1.9	58
Dec. 18 (8:00 a.m.)	.0048	2.1	54
Jan. 23, 1951 (10:50 a.m.)	.007	3.1	60
Feb. 26 (7:55 a.m.)	.11	51	52
Mar. 16 (9:35 a.m.)	.13	57	58
Apr. 18 (7:40 a.m.)	.043	19	
June 18 (1:00 p.m.)	.011	4.94	60
July 27 (7:30 a.m.)	.006	2.69	60
Sept. 11 (8:00 a.m.)	.0028	1.26	62
Oct. 12 (11:35 a.m.)	.0016	.73	66
Nov. 2 (8:20 a.m.)	.0018	.80	58
Dec. 4 (8:25 a.m.)	.0070	3.12	55
Feb. 18, 1952 (8:25 a.m.)	1.42	639	49
Apr. 2 (8:40 a.m.)	2.74	1230	55
May 8 (8:40 a.m.)	1.09	487	55
June 3 (7:50 a.m.)	.88	394	56

SPRING - EIRO ESTATE

Location.- Lat. $34^{\circ}29'40''$, long. $120^{\circ}03'20''$.

Altitude.- About 430 feet, from topographic map.

Description.- Pool in creek bottom on sandstone beds.

DATE		DISCHARGE	
		: Second-feet	: Gals. per min.
Nov. 17, 1948		: No flow	: No flow
Jan. 21, 1949	(9:40 a.m.)	: 0.0014	: 0.62
May 12	(8:40 a.m.)	: No flow	: No flow
July 21	(8:00 a.m.)	: No flow	: No flow
Aug. 17	(11:05 a.m.)	: No flow	: No flow
Sept. 12	(8:10 a.m.)	: No flow	: No flow
Oct. 13	(7:30 a.m.)	: No flow	: No flow
Nov. 17	(11:35 a.m.)	: No flow	: No flow
Dec. 27	(2:10 p.m.)	: No flow	: No flow
Jan. 18, 1950	(3:05 a.m.)	: No flow	: No flow
Feb. 20	(8:00 a.m.)	: No flow	: No flow
Mar. 13	(9:10 a.m.)	: No flow	: No flow
Apr. 10	(8:10 a.m.)	: No flow	: No flow
June 9	(1:00 p.m.)	: No flow	: No flow
July 24	(7:15 a.m.)	: No flow	: No flow
Aug. 11	(12:45 p.m.)	: No flow	: No flow
Nov. 1	(7:00 a.m.)	: No flow	: No flow
Nov. 30	(8:00 a.m.)	: No flow	: No flow
Dec. 18	(7:30 a.m.)	: No flow	: No flow
Jan. 23, 1951	(1:00 p.m.)	: No flow	: No flow
Feb. 26	(9:45 a.m.)	: No flow	: No flow
Apr. 18	(7:00 a.m.)	: No flow	: No flow
June 19	(1:20 p.m.)	: No flow	: No flow
July 25	(12:30 p.m.)	: No flow	: No flow
Aug. 22	(12:45 p.m.)	: No flow	: No flow
Sept. 24	(1:30 p.m.)	: No flow	: No flow
Oct. 12	(1:30 p.m.)	: No flow	: No flow
Nov. 2	(7:55 a.m.)	: No flow	: No flow
Dec. 4	(8:00 a.m.)	: No flow	: No flow
Feb. 18, 1952	(8:45 a.m.)	: No flow	: No flow *
Apr. 2	(7:55 a.m.)	: No flow	: No flow **
May 8	(8:20 a.m.)	: .084	: 38 : 56 a/
June 3	(7:15 a.m.)	: .054	: 24 : 57

* Indications of flow during recent storms.

** No flow at regular point of observation. Flow as always .5 mi above 101.

a/ Moved measuring site to 0.5 mile above 101.

STATION 73a

CANADA DEL VENADITO CREEK

Location.- Lat. $34^{\circ}29'40''$, long. $120^{\circ}03'20''$, in Canada del Venadito, about 2.3 miles north of Highway 101.

Altitude.- About 430 feet, from topographic map.

Description.-Measuring site in stream channel at end of road.

Diversion.- None.

DATE	DISCHARGE	
	: Second-feet	: Gals. per min.
Oct. 28, 1948 (9:30 a.m.)	: No flow	: No flow
Nov. 30 (8:45 a.m.)	: No flow	: No flow
Dec. 14 (9:30 a.m.)	: No flow	: No flow
Mar. 15, 1949 (9:45 a.m.)	: No flow	: No flow
	:	:
	:	:

SPRING - GEORGE M. WILLIAMS ESTATE

Location.- Lat. $34^{\circ}28'40''$, long. $120^{\circ}03'20''$

Altitude.- About 200 feet, from topographic map.

Description.- Seepage into uncurbed pool in narrow valley on hillside.

DATE		DISCHARGE	
		: Second-feet	: Gals. per min.
Nov. 17, 1948		: No flow	: No flow
Jan. 21, 1949	(9:15 a.m.)	: 0.00028	: 0.13
Mar. 29	(8:10 a.m.)	: No flow	: No flow
May 12	(8:05 a.m.)	: No flow	: No flow
June 22	(12:30 p.m.)	: No flow	: No flow
July 21	(7:45 a.m.)	: No flow	: No flow
Aug. 17	(11:00 a.m.)	: No flow	: No flow
Sept. 12	(7:50 a.m.)	: No flow	: No flow
Oct. 13	(7:15 a.m.)	: No flow	: No flow
Nov. 17	(11:20 a.m.)	: No flow	: No flow
Dec. 27	(1:45 p.m.)	: No flow	: No flow
Jan. 18, 1950	(7:40 a.m.)	: No flow	: No flow
Feb. 20	(7:45 a.m.)	: No flow	: No flow
Mar. 13	(8:00 a.m.)	: No flow	: No flow
Apr. 10	(7:40 a.m.)	: No flow	: No flow
June 9	(1:15 p.m.)	: No flow	: No flow
July 24	(7:30 a.m.)	: No flow	: No flow
Aug. 11	(1:00 p.m.)	: No flow	: No flow
Nov. 1	(7:15 a.m.)	: No flow	: No flow
Dec. 18	(7:20 a.m.)	: No flow	: No flow
Nov. 30	(7:45 a.m.)	: No flow	: No flow
Jan. 23, 1951	(1:15 p.m.)	: No flow	: No flow
Feb. 26	(9:30 a.m.)	: No flow	: No flow
Mar. 16	(12 M)	: No flow	: No flow
Apr. 18	7:15 a.m.)	: No flow	: No flow
June 19	(1:35 p.m.)	: No flow	: No flow
July 25	(12:45 p.m.)	: No flow	: No flow
Aug. 22	(1:00 p.m.)	: No flow	: No flow
Sept. 24	(1:15 p.m.)	: No flow	: No flow
Oct. 12	(1:45 p.m.)	: No flow	: No flow
Nov. 2	(7:45 a.m.)	: No flow	: No flow
Dec. 4	(7:50 a.m.)	: No flow	: No flow
Feb. 18, 1952	(8:20 a.m.)	: No flow	: No flow
Apr. 2	(7:40 a.m.)	: No flow	: No flow
May 8	(7:40 a.m.)	: No flow	: No flow
June 3	(7:25 a.m.)	: No flow	: No flow

* Ground surface dry, tulles brown.

SPRING - D. A. SATTLER

Location.- Lat. $34^{\circ}31'50''$, long. $120^{\circ}03'00''$.

Altitude.- About 2,230 feet, from topographic map.

Description.- Stone-curbed seep, wood-curbed seep and minor uncurbed seeps in alluvium of steep canyon bottom. Discharge measured as overflow from settling box.

DATE	DISCHARGE	
	: Second-feet	: Gals. per min.
Aug. 27, 1948	: 0.010	: 4.6
Dec. 2	: .010	: 4.6
May 28, 1949 (9:35 a.m.)	: .012	: 5.6
	:	:
	:	:

STATION 76

SPRING - D. A. SATTLER

Location.- Lat. $34^{\circ}32'00''$, long. $120^{\circ}03'20''$,

Altitude.- About 2,270 feet from topographic map.

Description.- Wood-curbed seep in alluvium on hillside. Discharge measured at end of 1-inch pipe leading to tank.

DATE	DISCHARGE	
	: Second-feet	: Gals. per min.
Aug. 27, 1948	: 0.00040	: 0.18
Dec. 17	: .00042	: .19
Jan. 27, 1949 (3:00 p.m.)	: No meas.	: No meas.
May 28 (10:25 a.m.)	: .00054	: .24
	:	:

SPRING - MRS. FLORENCE BROWN

Location.- Lat. 34°31'30", long. 100°03'20".

Altitude.- About 1,000 feet, from topographic map.

Description.- Stone-curbed pool west side of creek. Discharge measured at valve 50 feet below spring. Prior to April 21, 1950 discharge measured at end of 3/4-inch pipeline about 2000 feet below spring.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	
Nov. 8, 1948		.00085	0.28	
Jan. 28, 1949	(11:20 a.m.)	.0011	.51	
May 25	(12:30 a.m.)	.00089	.40	
Sept. 14	(11:05 a.m.)	No meas.	No meas.	
Dec. 29	(11:15 a.m.)	No meas.	No meas.	
Mar. 10, 1950	(11:30 a.m.)	.0010	.45	85
Apr. 21	(12:10 p.m.)	.0069	3.1	60
June 8	(10:05 a.m.)	.0048	2.2	58
July 30	(10:00 a.m.)	.0064	2.9	59
Aug. 24	(10:40 a.m.)	.0034	1.5	60
Nov. 2	(9:45 a.m.)	.00058	.3	60
Nov. 29	(9:40 a.m.)	.00022	.1	59
Dec. 19	(10:55 a.m.)	.00021	.1	
Jan. 29, 1951	(1:30 p.m.)	.0054	2.4	58 *
Feb. 28	(1:00 p.m.)	.0067	3.0	55
Mar. 21	(11:15 a.m.)	.0064	2.9	
Apr. 24	(10:30 a.m.)	.0061	2.7	
June 19	(10:05 a.m.)	.0021	.95	59
July 25	(10:00 a.m.)	.0019	.85	59
Aug. 22	(10:20 a.m.)	.0020	.90	60
Sept. 24	(10:30 a.m.)	.0019	.87	63
Oct. 22	(9:45 a.m.)	.0025	1.10	61
Nov. 8	(9:20 a.m.)	.0021	.93	57
Dec. 7	(9:30 a.m.)	.00087	.39	55 a
Jan. 8, 1952	(10:15 a.m.)	121 drops per minute.	Valve open.	
Mar. 13	(10:20 a.m.)	.0088	3.95	55 b
Apr. 10	(9:35 a.m.)	.0073	3.26	57
May 21	(10:30 a.m.)	.0059	2.63	58
June 18	(11:15 a.m.)	.0056	2.50	59

a Found valve open

b Spring box over flowing

* Cleaned 2" line which was plugged.

STATION 79

SPRING - SARALIGUI ESTATE

Location.- Lat. $34^{\circ}31'10''$, long. $120^{\circ}04'00''$.

Altitude.- About 1,300 feet, from topographic map.

Description.- Spring rises through weathered shale on hillside.

[illegible]

SPRING - MRS. FLORENCE BROWN

Location.- Lat. 34°31'00", long. 120°03'30".

Altitude.- About 1,250 feet from topographic map.

Description.- Two small short tunnels dug into sandstone cliff about 45 feet above stream bed. Beginning Jan. 16, 1950 discharge measured at valve on canyon crossing about 200 feet below spring.

DATE	DISCHARGE		TEMP. °F
	Second-feet	Gals. per min.	
Nov. 15, 1948	: 0.0041	: 1.85	:
Jan. 21, 1949 (3:25 p.m.)	: .0069	: 3.1	:
May 10 (10:10 a.m.)	: .00082	: .37**	:
July 20 (12:00 noon)	: .0036	: 1.64	:
Sept. 12 (12:55 p.m.)	: .0051	: 2.3	:
Nov. 17 (1:45 p.m.)	: .0033	: 1.5	:
Dec. 29 (9:30 a.m.)	: .0057	: 2.6 **	:
Jan. 16, 1950 (11:30 a.m.)	: .0044	: 2.0	: 61
Feb. 16, (9:45 a.m.)	: *	: *	:
Mar. 10 (10:30 a.m.)	: .0048	: 2.1	:
Apr. 21 (1:05 p.m.)	: .0041	: 1.8	: 60
June 8 (9:15 a.m.)	: .0042	: 1.9	: 64
July 20 (9:10 a.m.)	: .0042	: 1.9	: 63
Aug. 23 (8:35 a.m.)	: .0050	: 2.2	: 62
Nov. 2 (8:45 a.m.)	: .0035	: 1.6	: 66
Nov. 29 (8:10 a.m.)	: .0039	: 1.8	: 60
Dec. 19 (11:50 a.m.)	: .0046	: 2.1	: 65
Jan. 29, 1951 (12:20 p.m.)	: .0044	: 2.0	: 61
Feb. 26 (11:35 a.m.)	: .0043	: 1.9	: 61
Mar. 21 (12:40 p.m.)	: .0048	: 2.1	:
Apr. 24 (12:55 p.m.)	: .0032	: 1.4	:
June 19 (10:50 a.m.)	: .0033	: 1.50	: 60
July 25 (10:50 a.m.)	: .0039	: 1.74	: 61
Aug. 22 (11:10 a.m.)	: .0033	: 1.49	: 66
Sept. 24 (11:30 a.m.)	: .012	: 5.36	: 65 a
Oct. 22 (11:50 a.m.)	: .013	: 5.88	: 68
Nov. 8 (9:35 a.m.)	: .010	: 4.68	: 62
Dec. 7 (8:35 a.m.)	: .0093	: 4.17	: 56
Jan. 8, 1952 (9:10 a.m.)	: .012	: 5.36	: 56
Mar. 13 (9:00 a.m.)	Line broken during recent rains - Flow in uncontrolled seeps.		
Apr. 10 (8:20 a.m.)	: do	: do	:

** Measurement doubtful

* No measurement - Spring needs cleaning
a Drained line for 7 minutes.

SPRING - MRS. FLORENCE BROWN (Cont'd)

DATE	DISCHARGE		TEMP	REMARKS
	Second-	Gals. per	F	
1952	feet	min		
May 21 (11:25 a.m.)	.0031	1.38	67	Line repaired - leaks
June 18 (12M)	.0060	2.68	62	

SPRING - MRS. FLORENCE BROWN

Location.- Lat. 34°30'50", long. 120°03'40"

Altitude.- About 1,200 feet, from topographic map.

Description.- Drilled hole into sandstone cliff, 25 feet above creek. Discharge measured at end of $\frac{1}{2}$ -inch pipe.

DATE	DISCHARGE		TEMP.
	: Second-feet	: Gals. per min.:	
Nov. 3, 1948	: 0.0026	: 1.17	:
Jan. 21, 1949	: .0046	: 2.1	:
May 10 (10:00 a.m.)	: .0042	: 1.9	:
July 20 (12:20 p.m.)	: .0050	: 2.2	: 76
Sept. 12 (12:30 p.m.)	: .0053	: 2.4	:
Nov. 17 (1:25 p.m.)	: .0039	: 1.7	: 74
Dec. 29 (9:10 a.m.)	: .0052	: 2.3	: 44
Jan. 16, 1950 (11:10 a.m.)	: .0038	: 1.7	: 62
Feb. 16 (9:30 a.m.)	: .0039	: 1.7	: 63
Mar. 10 (10:20 a.m.)	: .0039	: 1.8	: 65
Apr. 21 (1:10 p.m.)	: .0032	: 1.5	: 62
June 8 (9:00 a.m.)	: .0033	: 1.5	: 63
July 20 (9:20 a.m.)	: .0042	: 1.9	: 64
Aug. 23 (8:25 a.m.)	: .0030	: 1.4	: 62
Nov. 2 (8:35 a.m.)	: .0032	: 1.5	: 67
Nov. 29 (8:00 a.m.)	: .0029	: 1.3	: 60
Dec. 19 (11:40 a.m.)	: .0030	: 1.3	: 66
Jan. 29, 1951 (12:25 p.m.)	: .0020	: .9	: 60
Feb. 26 (11:25 a.m.)	: .0027	: 1.2	: 62
Mar. 21 (12:45 p.m.)	: --	: --	: *
Apr. 24 (1:15 p.m.)	: .0038	: 1.7	:

* New Wood Crib being installed.

SPRING - MRS. FLORENCE BROWN (Cont'd)

DATE		DISCHARGE		TEMP	REMARKS
		Second- feet	Gals. per min	°F	
1951					
June 19	(11:05 a.m.)	.0080	3.57	59	
July 25	(11:05 a.m.)	Air	Lock in line;	No	flow at orchard.
Aug. 22	(11:15 a.m.)	.0032	1.44	86	
Sept 24	(11:40 a.m.)	.0056	2.50	71	
Oct. 22	(12M)	.0021	.93	94	
Nov. 8	(8:50 a.m.)	Drained	line for 5	minutes.	It went dry. Air lock?
Dec. 7	(8:45 a.m.)	.0067	3.00	51	
1952					
Jan. 8	(9:30 a.m.)	.0058	2.59	53	Some overflow at spring.
Mar. 13	(9:10 a.m.)	.00084	.38		Flow in creek opposite spring is 4-5 cfs
Apr. 10	(8:30 a.m.)	Air	Lock in line.	No	flow at orchard.
May 21	(11 45 a.m.)	.0067	3.00		Some leak water at spring box.
June 18	(12:10 p.m.)	.0046	2.05	72	do

SPRING - WILLIAM FELIZ

Location.- Lat. 34°31'30", Long. 120°04'30"

Altitude.- About 2,000 feet, from topographic map.

Description.- Seepage from hole dug into hillside.

DATE	DISCHARGE		TEMP.
	: Second-feet :	: Gals. per min. :	
Dec. 2, 1948	: No flow :	: No flow :	:
Jan. 28, 1949 (10:15 a.m.)	: No flow :	: No flow :	:
Mar. 28 (10:05 a.m.)	: 0.0010 :	: 0.45 :	:
May 25 (2:00 p.m.)	: .00085 :	: .38 :	:
July 20 (11:25 a.m.)	: .00076 :	: .34 :	:
Sept. 14 (11:35 a.m.)	: .00018 :	: .079 :	:
Nov. 30 (12:35 p.m.)	: No flow :	: No flow :	:
Dec. 29 (10:55 a.m.)	: No flow :	: No flow :	:
Jan. 16, 1950 (12:40 p.m.)	: .00025 :	: .11 :	: 62
Feb. 16 (10:20 a.m.)	: .00074 :	: .33 :	:
Mar. 10 (11:20 a.m.)	: .00075 :	: .34 :	: 63
Apr. 21 (12:35 p.m.)	: .0015 :	: .67 :	: 57
June 8 (9:40 a.m.)	: .0010 :	: .47 :	: 54
July 20 (9:40 a.m.)	: .0011 :	: .50 :	: 62
Aug. 24 (11:00 a.m.)	: .0019 :	: .83 :	: 65
Nov. 2 (9:15 a.m.)	: .00083 :	: .37 :	: 66
Nov. 29 (8:35 a.m.)	: .00083 :	: .37 :	: 61
Dec. 19 (11:20 a.m.)	: .00083 :	: .29 :	: 65
Jan. 29, 1951 (12:50 p.m.)	: .0012 :	: .55 :	: 58
Feb. 26 (12:45 p.m.)	: .0014 :	: .62 :	: 55
Mar. 21 (12 M)	: .0014 :	: .63 :	: 63
Apr. 24 (11:00 a.m.)	No flow (Stack have recently watered.)		
June 19 (10:25 a.m.)	No flow Small pool at spring pit.		
July 25 (10:20 a.m.)	: .00038 :	: .17 :	: 65 *
Aug. 22 (10:35 a.m.)	96 drops per minute		
Sept. 24 (11:00 a.m.)	No flow Spring dry.		
Oct. 22 (11:10 a.m.)	: do :	: do :	:
Nov. 8 (9:05 a.m.)	: do :	: do :	:
Dec. 7 (9:15 a.m.)	: do :	: do :	:
Jan. 8, 1952 (9:50 a.m.)	: do :	Water in spring pit.	
Mar. 13 (10:00 a.m.)	: .0036 :	: 1.63 :	: 61
Apr. 10 (9:15 a.m.)	: .0086 :	: 3.85 :	: 60
May 21 (10:55 a.m.)	: .0056 :	: 2.50 :	: 62
June 18 (11:35 a.m.)	: .0052 :	: 2.31 :	: 62

CANADA DEL REFUGIO CREEK

Location.- Lat. $34^{\circ}30'30''$, long. $120^{\circ}03'50''$, at forks of Canada del Refugio Creek near Refugio Guard Station about 3.0 miles north of Highway 101.

Altitude.- About 400 feet, from topographic map.

Description.- Measuring site at fork just below Circle-Bar-B Ranch and above diversion for 2 $\frac{1}{2}$ -inch line in creek bed, or during extremely low flows observations can be made by volumetric means at culvert about 100 yards upstream.

Diversion.- Only * minor diversions above station.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.	: °F
Oct. 28, 1948	(8:39 a.m.)	: 0.12	: 54	:
Nov. 19	(8:30 a.m.)	: .11	: 49	:
Nov. 30	(8:15 a.m.)	: .095	: 43	:
Dec. 3		: .085	: 38	:
Dec. 7		: .11	: 49	:
Dec. 14	(8:40 a.m.)	: .14	: 63	:
Jan. 21, 1949	(1:30 p.m.)	: .19	: 65	:
Mar. 15	(8:20 a.m.)	: .70	: 314	:
May 10	(9:35 a.m.)	: .13	: 60	:
June 22	(11:30 a.m.)	: .076	: 34.3	:
July 20	(12:30 p.m.)	: .055	: 24.5	: 65
Aug. 17	(1:00 p.m.)	: .070	: 32	: 65
Sept. 12	(11:50 a.m.)	: .064	: 29	: 63
Oct. 14	(10:20 a.m.)	: .034	: 38	: 63
Nov. 17	(1:00 p.m.)	: .086	: 39	: 58
Dec. 29	(8:50 a.m.)	: .13	: 57	: 47
Jan. 16, 1950	(10:40 a.m.)	: .42	: 190	: 48
Feb. 16	(9:05 a.m.)	: .39	: 180	: 53
Mar. 10	(9:35 a.m.)	: .19	: 83	: 54
Apr. 21	(1:25 p.m.)	: .15	: 67	: 59
June 8	(8:45 a.m.)	: .15	: 46	: 56
July 20	(9:00 a.m.)	: .10	: 47	: 61
Aug. 23	(8:10 a.m.)	: .11	: 50	: 60
Nov. 2	(8:25 a.m.)	: .086	: 38	: 61
Nov. 29	(7:45 a.m.)	: .16	: 70	: 55
Dec. 19	(12:30 p.m.)	: .12	: 55	: 66
Jan. 29, 1951	(10:35 a.m.)	: .23	: 104	: 54
Feb. 26	(10:05 a.m.)	: .13	: 59	: 51
Mar. 16	(11:40 a.m.)	: .093	: 42	: 56
Apr. 23	(11:40 a.m.)	: .12	: 55	:

CANADA DEL REFUGIO CREEK (CONT'D)

DATE	DISCHARGE		TEMP	REMARKS
	:Second-	:Gals. per		
	feet	min	°F:	
1951				
June 19 (11:25 a.m.)	.096	43	59	
July 25 (11:20 a.m.)	.051	23	63	
Aug. 22 (11:25 a.m.)	.060	27	62	
Sept. 24 (11:55 a.m.)	.058	26	61	
Oct. 22 (12:20 p.m.)	.038	17	59	
Nov. 8 (8:25 a.m.)	.062	28	56	
Dec. 7 (8:15 a.m.)	.16	70	48	
1952				
Jan. 8 (8:40 a.m.)	.25	112	48	
Mar. 13 (8:25 a.m.)	1.24	557	49	
Apr. 10 (8:00 a.m.)	.91	410	55	
May 21 (11:50 a.m.)	.38	171	62	
June 18 (12:20 p.m.)	: .33	: 150	: :	

SPRING - C. DAL POZZO & ALLEGRIA ESTATE

Location.- Lat. $34^{\circ}30'10''$, long. $120^{\circ}04'00''$.

Altitude.- About 420 feet, from topographic map.

Description.- Seepage at foot of sandstone cliff. Discharge measured at east side of culvert under road.

DATE	DISCHARGE		TEMP.
	: Second-feet	: Gals. per min.:	
Nov. 3, 1948	: 0.0018	: 0.82	:
Dec. 2	: .0017	: .77	:
Jan. 21, 1949 (1:20 p.m.)	: .0032	: 1.4	:
Mar. 28 (9:45 a.m.)	: .0036	: 1.6	:
May 10 (9:30 a.m.)	: .0027	: 1.2	:
June 22 (11:35 a.m.)	: .0018	: .80	:
July 20 (12:40 p.m.)	: .0015	: .69	:
Aug. 17 (12:40 p.m.)	: .0013	: .59	:
Sept. 12 (11:45 a.m.)	: .0011	: .51	: 68
Oct. 14 (10:20 a.m.)	: .0016	: .74	: 65
Nov. 17 (12:50 p.m.)	: .0019	: .86	: 62
Dec. 29 (8:30 a.m.)	: .0029	: 1.3	: 51
Jan. 16, 1950 (10:30 a.m.)	: .0038	: 1.7	: 51
Feb. 16 (8:55 a.m.)	: .0032	: 1.4	: 55
Mar. 10 (9:25 a.m.)	: .0032	: 1.4	: 56
Apr. 21 (1:25 p.m.)	: .0028	: 1.3	:
June 8 (8:30 a.m.)	: .0023	: 1.0	: 58
July 20 (8:50 a.m.)	: .0024	: 1.1	: 62
Aug. 23 (8:00 a.m.)	: .00048	: .22	: 60
Nov. 2 (8:15 a.m.)	: .0020	: .90	: 63
Nov. 30 (11:30 a.m.)	: .0024	: 1.1	: 58
Dec. 19 (12:40 p.m.)	: .0022	: 1.0	: 60
Jan. 29, 1951 (11:25 a.m.)	: .0033	: 1.5	: 57
Feb. 26 (10:55 a.m.)	: .0027	: 1.2	: 55
Mar. 16 (11:45 a.m.)	: .0026	: 1.2	: 60
Apr. 23 (11:45 a.m.)	: .0026	: 1.1	:
June 19 (12:15 p.m.)	: .0022	: .97	: 60
July 25 (11:25 a.m.)	: .0013	: .57	: 65
Aug. 22 (11:35 a.m.)	: .0012	: .56	: 63
Sept. 24 (12M)	: .00024	: .11	: 66
Oct. 22 (12:30 p.m.)	: .0015	: .66	: 61
Nov. 8 (8:15 a.m.)	: .0023	: 1.05	: 56
Dec. 7 (8:10 a.m.)	: .0039	: 1.79	: 49
Jan. 8, 1952 (8:30 a.m.)	: .0045	: 2.03	: 50
Mar. 13 (8:15 a.m.)	: .0082	: 3.66	: 52
Apr. 10 (7:40 a.m.)	: .0098	: 4.42	: 56
May 21 (12M)	: .0061	: 2.72	: 64
June 18 (12:25 p.m.)	: .0057	: 2.54	: 61

SPRING -- JOHN ALLEGRIA

Location. - Lat. 34°30'10", long. 120°03'40".

Altitude. - About 450 feet from topographic map.

Description. - Drilled hole in sandstone cliff. Discharge measured by disconnecting union in pipe line near spring.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
Jan. 28, 1949	(9:25 a.m.)	0.0024	1.09	
Mar. 28	(9:30 a.m.)	.0042	1.9	
May 10	(8:40 a.m.)	.0028	1.2	
Aug. 17	(12:25 p.m.)	.0058	2.6	
Oct. 14	(10:10 a.m.)	.0024	1.08	68
Nov. 17	(12:35 p.m.)	.0025	1.14	71
Dec. 29	(8:15 a.m.)	.0035	1.6	64
Jan. 16, 1950	(10:15 a.m.)	.0032	1.5	64
Feb. 16	(8:35 a.m.)	.0031	1.4	61
Mar. 10	(9:00 a.m.)	.0028	1.2	65
Apr. 21	(1:55 p.m.)	.0027	1.2	65
June 8	(7:40 a.m.)	.0024	1.1	65
July 20	(8:30 a.m.)	.0021	1.0	65 *Flow
Aug. 23	(9:00 a.m.)	.0018	.83	68 slight-
Nov. 2	(8:00 a.m.)	.012	5.6	67*ly tur-
Nov. 30	(11:00 a.m.)	.0024	1.1	66 bid
Dec. 19	(1:15 p.m.)	.012	5.4	69
Jan. 29, 1951	(11:10 a.m.)	.0034	1.5	65
Feb. 26	(10:45 a.m.)	.0025	1.1	63
Mar. 16	(11:15 a.m.)	.0017	.76	64
Apr. 23	(12:15 p.m.)	.0021	.95	
June 19	(12:30 p.m.)	.0025	.88	64
July 25	(11:40 a.m.)	.0021	.95	68
Aug. 22	(11:50 a.m.)	.0020	.88	67
Sept. 24	(12:15 p.m.)	.0017	.75	69
Oct. 22	(12:45 p.m.)	.0022	.99	71
Nov. 8	(8:05 a.m.)	.0034	1.52	66
Dec. 7	(7:45 a.m.)	.0046	2.08	61
Jan. 8, 1952	(8:20 a.m.)	.0011	.47	60
Mar. 13	(8:00 a.m.)	.0015	.67	58
Apr. 10	(7:25 a.m.)	.0012	.55	60
May 21	(12:10 p.m.)	.0011	.47	72
June 18	(12:45 p.m.)	.00090	.41	*

* Spring lined up - has not been shaken loose in over 1 year.

SPRING - M. F. ERRO

Location.- Lat. 34°28'20", long. 120°04'10".

Altitude.- About 100 feet, from topographic map.

Description.- Uncurbed seep at foot of bluff, west side Refugio Creek. Discharge at end of 2-inch pipe to stock trough.

DATE	DISCHARGE		TEMP.
	: Second-feet	: Gals. per min.:	
Dec. 2, 1948	: 0.0019	: 0.87	:
Jan. 21, 1949 (11:40 a.m.)	: .0020	: .90	:
Mar. 28 (8:45 a.m.)	: .0017	: .77	:
May 10 (8:05 a.m.)	: .0016	: .71	:
June 22 (11:45 a.m.)	: .0016	: .73	:
July 20 (12:55 p.m.)	: .0015	: .69	:
Aug. 17 (11:30 a.m.)	: .00019	: .084	:
Sept. 12 (11:25 a.m.)	: .00029	: .13	: 70
Oct. 14 (9:35 a.m.)	: One drop per 1.2 seconds.		:
Nov. 17 (12:05 p.m.)	: .0019	: .87	: 67
Dec. 21 (1:15 p.m.)	: .0021	: .96	: 62
Jan. 16 (9:45 a.m.)	: .0021	: .96	: 61
Feb. 16 (8:17 a.m.)	: .0019	: .87	: 61
Mar. 10 (8:00 a.m.)	: .0019	: .85	: 60
Apr. 10 (12:30 p.m.)	: .0017	: .78	: 68
June 9 (12:20 p.m.)	: No measurement. Line plugged.		:
July 20 (8:05 a.m.)	: .0016	: .71	: 65
Aug. 23 (9:20 a.m.)	: .0013	: .60	: 64
Nov. 2 (7:30 a.m.)	: .00021	: .09	: 62
Nov. 30 (10:25 a.m.)	: .0011	: .51	: 62
Dec. 13 (12:20 p.m.)	: .0015	: .66	: 65
Jan. 29, 1951 (9:30 a.m.)	: .0014	: .65	: 62
Feb. 26 (10:15 a.m.)	: .0015	: .66	: 60
Mar. 16 (10:50 a.m.)	: .0014	: .64	: 64
Apr. 13 (11:45 a.m.)	: .00041	: .20	:
June 19 (12:45 p.m.)	: No flow		:
July 25 (11:50 a.m.)	: No flow		:
Aug. 22 (12:05 p.m.)	: No flow		:
Sept. 24 (12:30 p.m.)	: Line plugged, flow in uncontrolled seep		:
Oct. 22 (12:55 p.m.)	: do		:
Nov. 8 (7:45 a.m.)	: do		:
Dec. 7 (7:30 a.m.)	: do		:
Jan. 8, 1952 (8:00 a.m.)	: do		:
Mar. 13 (7:40 a.m.)	: Oak tree fallen across line, line plugged. Flow in uncontrolled seeps.		:
Apr. 10 (6:55 a.m.)	: do		:
* May 21 (12:25 p.m.)	: do		:
June 18 (1:00 p.m.)	: Line plugged, flow in uncontrolled seeps		:

* Note: No cattle being grazed here his year. There is sufficient flow in creek to water).

SPRING - M. F. ERRO

Location.- Lat. $34^{\circ}28'20''$, long. $120^{\circ}04'10''$.

Altitude.- About 100 feet, from topographic map.

Description.- Seepage collected in shallow ditch at foot of bluff, west side Refugio Creek. Discharge measured at end of 2-inch pipe to stock trough.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
Dec. 2, 1948		0.00067	0.30	
Jan. 21, 1949	(11:45 a.m.)	.00017	.075	
Mar. 28	(8:30 a.m.)	.000033	.015	
May 10	(8:10 a.m.)	.00075	.34	
June 22	(11:50 a.m.)	.00050	.22	
July 20	(1:00 p.m.)	.00055	.25	76
Aug. 17	(11:25 a.m.)	.00035	.16	
Sept. 12	(11:30 a.m.)	.00020	.088	70
Oct. 14	(9:30 a.m.)	.00019	.087	65
Nov. 17	(12:10 p.m.)	.00048	.21	64
Dec. 21	(1:20 p.m.)	.00064	.29	55
Jan. 16, 1950	(9:50 a.m.)	.00064	.29	51
Feb. 16	(8:15 a.m.)	.00064	.29	
Mar. 10	(8:05 a.m.)	.00069	.31	55
Apr. 10	(12:30 p.m.)	.00053	.24	71
June 9	(12:25 p.m.)	.00044	.20	70
July 20	(8:10 a.m.)	.00055	.25	63
Aug. 23	(9:25 a.m.)	.00074	.33	63
Nov. 2	(7:35 a.m.)	.00010	.05	62
30	(10:30 a.m.)	.00061	.27	61
Dec. 18	(12:25 p.m.)	.00062	.28	63
Jan. 29, 1951	(9:35 a.m.)	.00076	.34	60
Feb. 26	(10:20 a.m.)	.00067	.30	56
Mar. 16	(10:55 a.m.)	.00063	.28	64
Apr. 18	(11:50 a.m.)	.00056	.25	
June 19	(12:50 p.m.)	.00053	.24	63
July 25	(11:55 a.m.)	.00032	.14	67
Aug. 22	(12:10 p.m.)	.000070	.031	68
Sept. 24	(12:35 p.m.)	.000091	.041	68
Oct. 22	(1:00 p.m.)	132 drops per minute		
Nov. 8	(7:45 a.m.)	147 drops per minute		
Dec. 7	(7:25 a.m.)	61 drops per minute		
Jan. 8, 1952	(8:05 a.m.)	72 drops per minute		
Mar. 13	(7:45 a.m.)	Line plugged; flow in uncontrolled seeps.		
Apr. 10	(7:00 a.m.)	Do		
May 21	(12:25 p.m.)	Do		
June 18	(1:05 p.m.)	Do		

SPRING - M. F. ERRO

Location.- Lat. 34°28'00", long. 120°04'10".

Altitude.- About 70 feet, from topographic map.

Description.- Wood-curbed spring at foot of bluff. Measured discharge represents total flow into two stock troughs.

DATE	DISCHARGE		TEMP.
	: Second-feet	: Gals. per min.	
Dec. 7, 1948	: 0.010	: 4.5	:
Jan. 21, 1949 (11:25 a.m.)	: .0095	: 4.3	:
Mar. 28 (8:15 a.m.)	: .0090	: 4.0	:
May 10 (7:55 a.m.)	: .0089	: 4.0	:
June 22 (12:00 noon)	: .0089	: 4.0	:
July 20 (1:15 p.m.)	: .0091	: 4.1	:
Aug. 17 (11:20 a.m.)	: .010	: 4.7	:
Sept. 12 (11:15 a.m.)	: .0086	: 3.9	: 67
Oct. 14 (9:20 a.m.)	: .0088	: 3.9	:
Nov. 17 (12:00 noon)	: .0078	: 3.5	: 63
Dec. 21 (1:30 p.m.)	: .0092	: 4.1	: 65
Jan. 16, 1950 (9:35 a.m.)	: .0084	: 3.8	: 64
Feb. 16 (8:05 a.m.)	: .0088	: 4.0	: 64
Mar. 10 (7:50 a.m.)	: .0093	: 4.2	: 66
Apr. 10 (1:00 p.m.)	: .010	: 4.5	: 70
June 9 (12:35 p.m.)	: .0087	: 3.9	: 69
July 20 (7:50 a.m.)	: .0077	: 3.5	: 66
Aug. 23 (9:45 a.m.)	: .0092	: 4.1	: 65
Nov. 2 (7:20 a.m.)	: .0060	: 2.7	: 69
Nov. 30 (9:55 a.m.)	: .0029	: 1.3	: 65
Dec. 18 (12:10 p.m.)	: .0048	: 2.2	: 63
Jan. 29, 1951 (10:25 a.m.)	: .0048	: 2.2	: 67
Feb. 26 (9:05 a.m.)	: .0040	: 1.8	: 63
Mar. 16 (10:45 a.m.)	: .0033	: 1.5	: 69
Apr. 18 (12 M)	: .0059	: 2.6	:
June 19 (12:55 p.m.)	: *	:	:
July 25 (12:10 p.m.)	: *	:	:
Aug. 22 (12:30 p.m.)	: *	:	:
Sept. 24 (12:45 p.m.)	: .0046	: 2.08	: **
Oct. 22 (1:10 p.m.)	: .0048	: 2.14	:
Nov. 8 (7:35 a.m.)	: .0046	: 2.08	:
Dec. 7 (7:15 a.m.)	: .0052	: 2.31	: 63

* Flow from spring in uncontrolled seeps. Line plugged.

** Cleaned since last visit.

SPRING - M. F. ERRO

DATE		DISCHARGE		TEMP	REMARKS
		Second- feet	Gals. per min.	°F	
1952					
Jan. 8	(7:50 a.m.)	.0054	2.42	62	
Feb. 26	(7:30 a.m.)				Line broken during recent storm: Flow in uncontrolled seeps.
Mar. 13	(7:35 a.m.)				Do
Apr. 10	(6:50 a.m.)				Do
May 21	(12:30 p.m.)	.015	6.8		Measured seepage at spring
June 18	(1:30 p.m.)	.018	7.8		Do

SPRING - TOM KINEVAN

Location.- Lat. 34°30'30", long. 119°50'00".

Altitude.- About 2,380 feet from topographic maps.

Description.- Open pool in alluvial veneer on sandstone.

DATE		DISCHARGE		Water level in feet : below reference point
		Second-feet	Gals. per min.	
June 15, 1948		No flow	No flow	
Apr. 13, 1949	(1:10 p.m.)	No flow	No flow	1.63
May 24	(8:15 a.m.)	No flow	No flow	1.44
June 24	(11:50 a.m.)	No flow	No flow	4.39
Aug. 12	(8:05 a.m.)	No flow	No flow	2.34
Sept. 30	(7:40 a.m.)	No flow	No flow	1.98
Nov. 1	(12:15 p.m.)	No flow	No flow	1.98
Dec. 20	(12:05 p.m.)	No flow	No flow	1.60
Jan. 17, 1950	(12:15 p.m.)	No flow	No flow	1.15
Feb. 13	(11:50 a.m.)	No flow	No flow	1.01
Mar. 9	(9:00 a.m.)	No flow	No flow	1.47
Apr. 18	(12:50 p.m.)	No flow	No flow	1.92
May 15	(12:35 p.m.)	No flow	No flow	1.87
June 23	(8:15 a.m.)	No flow	No flow	1.80
July 17	(1:30 p.m.)	No flow	No flow	2.19
Aug. 22	(11:00 a.m.)	No flow	No flow	4.98 *
Oct. 25	(12:25 p.m.)	No flow	No flow	2.22
Nov. 16	(10:35 a.m.)	No flow	No flow	2.13
Dec. 14	(12:40 p.m.)	No flow	No flow	2.32
Jan. 30, 1951	(12:20 p.m.)	No flow	No flow	2.22
Feb. 21	(9:05 a.m.)	No flow	No flow	2.48
Mar. 14	(11:50 a.m.)	No flow	No flow	2.23
Apr. 19	(10:25 a.m.)	No flow	No flow	2.58
June 12	(1:25 p.m.)	No flow	No flow	2.69
July 30	(10:55 a.m.)	No flow	No flow	2.92
Aug. 27	(11:45 a.m.)	No flow	No flow	3.03
Sept. 26	(11:15 a.m.)	No flow	No flow	3.01
Oct. 25	(12:30 p.m.)	No flow	No flow	2.79
Nov. 5	(12:05 p.m.)	No flow	No flow	2.84
Dec. 13	(11:20 a.m.)	No flow	No flow	2.47
Jan. 9, 1952	(1:40 p.m.)	No flow	No flow	1.99
Feb. 26	(12:25 p.m.)	No flow	No flow	1.83
Apr. 9	(11:05 a.m.)	No flow	No flow	1.68
May 16	(9:55 a.m.)	No flow	No flow	1.85
June 19	(11:35 a.m.)	No flow	No flow	2.03

* Portable pump has recently been pumping.

SPRING - MRS. NELL K. REAM

Location.- Lat. 34°30'40", long. 119°50'00".

Altitude.- About 2,340 feet from topographic map.

Description.- Seep in alluvial veneer on sandstone.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.:	: °F
June 15, 1948		: Practially	:	:
		: dry	:	:
Feb. 15, 1949		: Practially	:	:
		: dry	:	:
Apr. 13	(1:00 p.m.)	: 0.00060	: 0.27	:
May 24	(8:10 a.m.)	: .00072	: .32	:
June 24	(12:00 noon)	: .00032	: .14	:
Aug. 12	(8:10 a.m.)	: .00017	: .078	: 58
Sept. 30	(7:45 a.m.)	: .00010	: .046	:
Nov. 1	(12:25 p.m.)	: .00013	: .082	: 60
Dec. 20	(12:10 p.m.)	: .00033	: .39	: 45
Jan. 17, 1950	(12:10 p.m.)	: *	: *	:
Feb. 14	(11:55 a.m.)	: *	: *	:
Mar. 9	(9:05 a.m.)	: *	: *	:
Apr. 18	(12:55 p.m.)	: 1.2 drops per second	:	:
May 15	(12:45 p.m.)	: .00035	: .16	:
June 23	(7:25 a.m.)	: .00028	: .12	: 56
July 17	(1:35 p.m.)	: .00024	: .11	: 63
Aug. 22	(11:05 a.m.)	: 124 drops per minute	:	:
Oct. 25	(12:30 p.m.)	: .00022	: .037, .04	: 57
Nov. 16	(10:45 a.m.)	: .00019	: .066	: 54
Dec. 14	(12:45 p.m.)	: .00020	: .18	: 54
Jan. 30, 1951	(12:25 p.m.)	: .00036	: .40	: 46
Feb. 21	(9:10 a.m.)	: .00059	: .26	: 45
Mar. 14	(11:55 a.m.)	: .00075	: .34	: 54
Apr. 19	(10:30 a.m.)	: .00058	: .26	:
June 12	(1:30 p.m.)	: .00032	: .14	: 60
July 30	(11:00 a.m.)	: .000040	: .018	: 73
Aug. 27	(11:48 a.m.)	: No Flow	:	:
Sept. 26	(11:20 a.m.)	: 164 drops per minutes	:	:
Oct. 25	(12:35 p.m.)	: .00013	: .057	: 59
Nov. 5	(12:10 p.m.)	: .00013	: .059	: 59
Dec. 13	(11:25 a.m.)	: 132 drops per minute	:	:
Jan. 9, 1952	(1:45 p.m.)	: .00059	: .26	: 46
Feb. 26	(12:30 p.m.)	: **	:	:
Apr. 9	(11:10 a.m.)	: ***	:	:
May 16	(10:00 a.m.)	: Flow in uncontrolled seeps.	:	:
June 19	(11:40 a.m.)	: Do	:	:

* Open spring basin filled with mud and leaves-no visible flow.

** Horse trough washed away during recent rains. Flow in uncontrolled seeps.

*** No outflow from spring - creek flowing 2 gals. in 8.0"

SPRING - MRS. MELL K. REAM

Location.- Lat. $34^{\circ}30'40''$, long. $119^{\circ}50'00''$.

Altitude.- About 2,320 feet, from topographic map.

Description.- Covered pool in alluvium on sandstone in creek bed. Discharge measured at inflow to settling box.

DATE	DISCHARGE		TEMP.
	: Second-feet	: Gals. per min.	: °F
June 15, 1948	: 0.0085	: 3.8	:
Feb. 15, 1949	: .0089	: 4.0	:
Apr. 13, (12:55 p.m.)	: .010	: 4.5	:
May 24 (8:25 a.m.)	: .0094	: 4.2	:
June 24 (12:00 noon)	: .0088	: 3.93	:
Aug. 12 (8:15 A.m.)	: .0084	: 3.77	: 59
Sept. 30 (7:50 a.m.)	: .0076	: 3.41	:
Nov. 1 (12:30 p.m.)	: .0073	: 3.29	: 58
Dec. 20 (12:25 p.m.)	: .011	: 5.5	: 55
Jan. 17, 1950 (12:30 p.m.)	: .032	: 14	: 65
Feb. 14 (12:05 p.m.)	: .028	: 13	: 55
Mar. 9 (9:10 a.m.)	: .025	: 11	: 56
Apr. 18 (1:00 p.m.)	: .018	: 8.1	: 57
May 15 (12:50 p.m.)	: .0081	: 3.6	: 58
June 23 (8:30 a.m.)	: .019	: 8.6	: 60
July 17 (1:40 p.m.)	: .0070	: 3.1	: 57
Aug. 22 (11:10 a.m.)	: .0080	: 3.6	: 59
Oct. 25 (12:35 p.m.)	: .0071	: 3.2	: 59
Nov. 16 (10:50 a.m.)	: .0073	: 3.3	: 58
Dec. 14 (12:45 p.m.)	: .0065	: 2.9	: 57
Jan. 30, 1951 (12:25 p.m.)	: .0044	: 2.0	: 56 plugged
Feb. 21 (9:30 a.m.)	no measurement - Discharge line		
Mar. 14 (12 M)	: .0041	: 1.83	: 57
Apr. 19 (10:40 a.m.)	: .0070	: 3.1	:
June 12 (1:35 p.m.)	: .0070	: 3.12	: 57
July 30 (11:10 a.m.)	: .0074	: 3.33	: 59
Aug. 27 (11:55 a.m.)	: .023	: 10.0	: 60
Sept. 26 (11:25 a.m.)	: .0070	: 3.12	: 59
Oct. 22 (12:45 p.m.)	: .022	: 10.0	: 57
Nov. 5 (12:15 p.m.)	: .0071	: 3.19	: 59
Dec. 13 (11:28 a.m.)	: .0070	: 3.12	: 56
Jan. 9, 1952 (1:50 p.m.)	: .0074	: 3.33	: 55
Feb. 26 (12:35 p.m.)	: .0036	: 1.63	: 54
Apr. 9 (11:15 a.m.)	: .015	: 6.8	: 52
May 16 (10:05 a.m.)	: .0051	: 2.31	: 54
* June 19 (11:50 a.m.)	: .0050	: 2.24	: 60

* New 2" pipe installed since last visit.

SPRING - MRS. NELL K. REAM

Location.- Lat. $34^{\circ}30'40''$, long. $119^{\circ}50'00''$.

Altitude.- About 2,320 feet from topographic map.

Description.- Sandstone ledge on left bank of creek about 50 feet downstream from station 93. Discharge measured at 1 inch pipe.

DATE		DISCHARGE		TEMP
		Second-feet	Gals. per min	
May 15, 1950	(12:50 p.m.)	.00050	.22	54
June 23	(8:35 a.m.)	.00048	.22	
July 17	(1:45 p.m.)	.00033	.15	61
Aug. 22	(11:15 a.m.)	.00025	.11	62
Oct. 25	(12:45 p.m.)	.00027	.12	=:
Nov. 16	(10:55 a.m.)	.00035	.16	55
Dec. 14	(12:50 p.m.)	.00040	.18	55
Jan. 30, 1951	(12:30 p.m.)	.00048	.22	49
Feb. 21	(9:25 a.m.)	.00044	.20	49
Mar. 14	(12:05 p.m.)	.00043	.19	54
Apr. 19	(10:35 a.m.)	.00054	.24	
June 12	(1:40 p.m.)	.00038	.17	58
July 30	(11:10 a.m.)	.00024	.11	72
Aug. 23	(11:50 a.m.)	.00020	.09	66
Sept. 26	(11:30 a.m.)	.00019	.08	59
Oct. 25	(12:40 p.m.)	.00024	.11	53
Nov. 5	(12:20 p.m.)	.00027	.12	59
Dec. 13	(11:30 a.m.)	.00049	.22	51
Jan. 9, 1952	(1:55 p.m.)	.00081	.36	49
Feb. 26	(12:40 p.m.)	.00052	.23	52
Apr. 9	(11:20 a.m.)	.00097	.44	52
May 16	(10:10 a.m.)	Crew cleaning out spring pit.		
June 19	(11:50 a.m.)	Flow in uncontrolled seeps. :		

SPRING - TOM KINEVAN

Location.- Lat. 34°30'40", long. 119°50'00".

Altitude.- About 2,350 feet, from topographic map.

Description.- Covered seep in alluvial veneer on sandstone. Discharge measured as inflow to storage tank.

DATE	DISCHARGE		TEMP. °F
	: Second-feet :	: Gals. per min. :	
June 15, 1948	: 0.0047 :	: 2.1 :	:
Feb. 15, 1949	: .0051 :	: 2.3 :	:
Apr. 13 (12:50 p.m.)	: .0067 :	: 3.0 :	:
May 24 (8:05 p.m.)	: .0073 :	: 3.3 :	:
June 24 (11:40 a.m.)	: .0033 :	: 1.50 :	:
Aug. 12 (8:00 a.m.)	: .0038 :	: 1.68 :	: 62
Sept. 30 (7:30 a.m.)	: .0028 :	: 1.27 :	:
Nov. 1 (12:05 p.m.)	: .0027 :	: 1.22 :	: 62
Dec. 20 (12:00 Noon)	: No meas. :	: No meas. :	:
Jan. 17, 1950 (12:10 p.m.)	: .0019 :	: a .85 :	: 60
Feb. 14 (11:45 a.m.)	: .010 :	: 4.5 :	: 59
Mar. 9 (8:50 a.m.)	: .007 :	: 3.2 :	: 60
Apr. 18 (12:40 p.m.)	: .0058 :	: 2.6 :	: 62
May 15 (12:30 p.m.)	: .0053 :	: 2.4 :	: 60
June 23 (8:10 a.m.)	: .0046 :	: 2.1 :	: 60
July 17 (1:25 p.m.)	: .0036 :	: 1.60 :	: 63
Aug. 22 (10:55 a.m.)	: .0026 :	: 1.17 :	: 65
Oct. 25 (12:15 p.m.)	: .0025 :	: 1.14 :	: 62
Nov. 16 (10:30 a.m.)	: .0035 :	: 1.56 :	: 61
Dec. 14 (12:35 p.m.)	: .0031 :	: 1.39 :	: 60
Jan. 30, 1951 (12:15 p.m.)	: .0036 :	: 1.60 :	: 59
Feb. 21 (9:00 a.m.)	: .0039 :	: 1.74 :	: 59
Mar. 14 (11:45 a.m.)	: .0049 :	: 2.20 :	: 63
Apr. 19 (10:20 a.m.)	: .0038 :	: 1.72 :	:
June 12 (1:20 p.m.)	: .0027 :	: 1.22 :	: 62
July 30 (10:50 a.m.)	: .0019 :	: .88 :	: 67
Aug. 27 (11:40 a.m.)	: .0016 :	: .72 :	: 67
Sept. 26 (11:45 a.m.)	: .0016 :	: .71 :	: 62
Oct. 25 (12:25 p.m.)	: .0018 :	: .80 :	: 60
Nov. 5 (12 M)	: .0018 :	: .82 :	: 62
Dec. 13 (11:15 a.m.)	: .0032 :	: 1.42 :	: 59
Jan. 9, 1952 (1:35 p.m.)	: .0058 :	: 2.58 :	: 58
Feb. 26 (12:20 p.m.)	: .0044 :	: 1.98 :	: 60
Apr. 9 (11:00 a.m.)	: .0070 :	: 3.12 :	: 60
May 16 (9:50 a.m.)	: .0045 :	: 2.02 :	: 62
June 19 (11:30 a.m.)	: .0050 :	: 2.24 :	: 64

a Unmeasured portion of flow being wasted.

SPRING - P. C. BRYCE, U. S. FOREST SERVICE

Location.- Lat. $34^{\circ}30'10''$, long. $119^{\circ}51'40''$.

Altitude.- About 2,900 feet, from topographic map.

Description.- Plank-curbed and covered pool in alluvium on sandstone in creek bottom.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
June 17, 1948		Practically dry	Practically dry	
Feb. 10, 1949		0.0047	2.1	
Apr. 13	(9:15 a.m.)	.0024	1.1	
May 24	(12:15 p.m.)	.010	4.7	
June 24	(10:20 a.m.)	No flow	No flow	*
Aug. 11	(10:15 a.m.)	No flow	No flow	*
Sept. 30	(10:05 a.m.)	No flow	No flow	
Nov. 28	(10:00 a.m.)	No flow	No flow	
Dec. 28	(12:35 p.m.)	.0020	.91	53
Jan. 26, 1950	(11:00 a.m.)	.0061	2.7	50
Feb. 17	(10:00 a.m.)	.018	8.2	
Mar. 9	(11:50 a.m.)	.0052	2.3	59
Apr. 18	(10:35 a.m.)	.0025	1.1	68
May 15	(10:20 a.m.)	.00030	.14	57
June 22	(10:10 a.m.)	*No flow		
Aug. 1	(11:30 a.m.)	No flow		
Aug. 22	(8:00 a.m.)	No flow		
Oct. 25	(10:15 a.m.)	No flow		
Dec. 1	(9:15 a.m.)	.00021	.09	51
Dec. 20	(9:10 a.m.)	No flow		
Jan. 30, 1951	(8:15 a.m.)	.010	4.7	43
Feb. 23	(10:15 a.m.)	.00067	.30	
Mar. 22	(8:45 a.m.)	.0029	1.3	
Apr. 19	(8:15 a.m.)	No flow		
June 15	(10:35 a.m.)	No Flow		
July 30	(8:55 a.m.)	Do		
Aug. 27	(9:25 a.m.)	Do		
Sept. 26	(8:45 a.m.)	Do		
Oct. 25	(9:25 a.m.)	Do		
Nov. 6	(10:10 a.m.)	Do		
Dec. 13	(9:20 a.m.)	.033	.16	45
Feb. 26, 1952	(11:30 a.m.)	.0013	.60	57
Apr. 9	(9:35 a.m.)	.11	50.	54
May 16	(8:10 a.m.)	.0041	1.85	54
June 19	(9:40 a.m.)	No Flow - Pools		

* Water in box but no overflow.

* Water in spring pit; but no outflow.

SPRING - MRS. ADELAIDE OVINGTON

Location.- Lat. 34°31'10", long. 119°50'20".

Altitude.- About 1,850 feet, from topographic map.

Description.- Seeps in landslide on valley side. Discharge measured at settling box. These measurements do not include the discharge of the upper and lower undeveloped springs.

DATE	DISCHARGE AT		UPPER UNDE-		LOWER UNDE-		TEMP.
	SETTLING BOX		VELOPED SPRING		VELOPED SPRING		
	Second-	Gals.	Second-	Gals.	Second-	Gals.	
	feet	per min.	feet	per min.	feet	per min.	
1948							
June 24	0.0024	1.1	-	-	-	-	
1949							
Feb. 15	.0018	.83	0.0069	3.1	0.0045	2.0	
Apr. 12 (8:30 a.m.)	.0026	1.2	-	-	-	-	
May 11 (9:30 a.m.)	.0019	.85					
June 23 (12:15 p.m.)	.0013	.59					59
Aug. 11 (1:00 p.m.)	.0035	1.56					60
Sept. 30 (12:30 p.m.)	.0016	.73					
Nov. 1 (1:00 p.m.)	.0012	.56					60
Dec. 20 (12:45 p.m.)	.0036	1.6					57
Jan. 17, 1950	.0015	.67					57
Feb. 14 (12:25 p.m.)	.0048	2.1					
Mar. 9 (1:30 p.m.)	.0027	1.2					
Apr. 18 (1:20 p.m.)	.0026	1.2					62
May 15 (1:10 p.m.)	.0023	1.0					58
a/June 23	.010	5.0					61
Aug. 9 (8:00 a.m.)	.016	7.1					60
Oct. 24 (12:45 p.m.)	.028	12.5					60
Nov. 16 (11:00 a.m.)	.017	7.6					60
Dec. 14 (1:30 p.m.)	.021	9.4					
Jan. 30, 51 (1:00 p.m.)	.022	9.7					59
Feb. 21 (9:45 a.m.)	.018	8.2					59
Mar. 14 (12:30 p.m.)	.020	8.8					61
Apr. 19 (11:05 a.m.)	.015	6.5					
June 13 (12:15 p.m.)	.015	6.74					61
July 30 (11:30 a.m.)	.0061	2.73					65
Aug. 27 (12:15 p.m.)	.0038	1.69					65

a/ Since last visit spring improved to catch previously uncontrolled seeps; new 1½ inch line installed.

SPRING - MRS. ADELAIDE OVINGTON (cont'd)

DATE	DISCHARGE		TEMP	REMARKS
	Second-foot	Gals. per min.	°F	
1951				
Sept. 26 (11:55 a.m.)				All lines closed to tank by order County Sanitation Dept. 1800-gal. tank overflowing. Inlet pipe submerged.
Oct. 25 (1:10 p.m.)	.0070	3.12	59	New site at valve, installed for measurement purposes.
Dec. 13 (11:50 a.m.)	.0072	3.23	58	
1952				
Feb. 25 (11:45 a.m.)	.0096	4.28	60	
Apr. 9 (11:45 a.m.)	.019	8.4	59	
May 16 (10:35 a.m.)	.012	5.6	61	
June 19 (12:30 p.m.)	.0099	4.42	63	

COLD SPRING CANYON CREEK AT HIGHWAY 150

Location.- Lat. $34^{\circ}31'20''$, Long. $119^{\circ}50'20''$, below the principal forks at Highway 150.

Altitude.- About 1,600 feet, from topographic map.

Description.- Measuring site in natural channel at Highway culvert.

Diversion.- Diversion of about 2 miner's inches occurs above measuring site.

DATE	DISCHARGE		TEMP.
	Second-feet	Gals. per min.	
Oct. 29, 1948 (12:45 p.m.)	No flow	No flow	:
Nov. 5 (11:20 a.m.)	No flow	No flow	:
Dec. 15 (11:45 a.m.)	No flow	No flow	:
Jan. 31, 1949 (11:15 a.m.)	0.018	8.0	:
Apr. 18 (1:30 p.m.)	.033	15	:
May 27 (1:10 p.m.)	.046	20.6	:
June 22 (1:30 p.m.)	.030	13.5	: 57
July 18 (11:30 a.m.)	.0033	1.50	: 69
Aug. 16 (12:00 noon)	.023	10.4	: 55
Sept. 27 (1:30 p.m.)	.036	16.2	: 61
Oct. 25 (1:30 p.m.)	.022	9.9	: 53
Nov. 18 (11:30 a.m.)	.048	21.5	: 54
Dec. 21 (1:50 p.m.)	.071	32	: 47
Jan. 16, 1950 (8:05 a.m.)	.097	44	: 45
Feb. 23 (11:45 a.m.)	.062	28	: 50
Mar. 23 (12:35 p.m.)	.025	11	: 50
Apr. 21 (1:15 p.m.)	.024	11	: 55
May 18 (11:30 a.m.)	.023	10	: 51
June 28 (8:45 a.m.)	.036	2.7	: 56
July 27 (12:50 p.m.)	.010	4.5	: 60
Aug. 29 (11:30 a.m.)	.006	2.7	: 61
Oct. 18 (2:35 p.m.)	.013	5.8	: 56
Nov. 29 (12:10 p.m.)	.018	8.1	: 53
Dec. 14 (11:40 a.m.)	.016	7.2	: 54
Jan. 9, 1951 (12:05 p.m.)	.016	7.2	: 47
Feb. 9 (11:50 a.m.)	.014	6.3	:
Mar. 6 (11:00 a.m.)	.047	21	: 50
Apr. 6 (11:45 a.m.)	.029	13	: 48
May 18 (9:35 a.m.)	.016	7.2	: 54
June 13 (12:10 p.m.)	.012	5.4	: 56
July 20 (11:00 a.m.)	.007	3.1	: 62
Sept. 6 (1:00 p.m.)	.012	5.4	: 57
20 (7:40 a.m.)	.013	5.8	: 59
Oct. 12 (11:45 a.m.)	.010	4.6	: 56
Nov. 6 (1:45 p.m.)	.006	2.69	:
Dec. 14 (9:50 a.m.)	.022	9.9	: 48

COLD SPRING CANYON CREEK AT HIGHWAY 150 (cont'd)

DATE		DISCHARGE		TEMP	REMARKS
		Second- feet	Gals. per min.	*F	
1952					
Jan.	11 (11:30 a.m.)	.091	41.	48	
Feb.	20 (2:50 p.m.)	.11	48.	48	
Apr.	16 (2:50 p.m.)	.33	149.	50	
May	9 (1:55 p.m.)	.10	46.	54	
	21 (2:30 p.m.)	.080	36.	55	
June	19 (3:05 p.m.)	.039	18.		

SPRING - U. S. FOREST SERVICE

Location.- Lat. 34°30'40", long. 119°52'40".

Altitude.- About 2,475 feet, from topographic map.

Description.- Seeps in alluvium on hillside.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
Aug. 19, 1948		No flow	No flow	:
Feb. 10, 1949		No flow	No flow	:
Apr. 13	(8:30 a.m.)	No flow	No flow	:
May 24	(11:15 a.m.)	No flow	No flow	:
June 24	(9:35 a.m.)	No flow	No flow	:
Aug. 11	(9:30 a.m.)	No flow	No flow	:
Sept. 30	(9:20 a.m.)	No flow	No flow	:
Nov. 28	(9:00 a.m.)	No flow	No flow	:
Dec. 28	(11:45 a.m.)	No flow	No flow	:
Jan. 26, 1950	(9:15 a.m.)	No flow	No flow	:
Feb. 17	(8:45 a.m.)	No flow	No flow	:
Mar. 9	(10:30 a.m.)	No flow	No flow	:
Apr. 13	(9:40 a.m.)	No flow	No flow	:
May 15	(9:30 a.m.)	No flow	No flow	:
June 22	(9:20 a.m.)	No flow	No flow	:
Aug. 1	(10:25 a.m.)	No flow	No flow	:
Aug. 22	(8:30 a.m.)	No flow	No flow	:
Oct. 25	(9:30 a.m.)	No flow	No flow	:
Dec. 1	(8:20 a.m.)	No flow	No flow	:
Jan. 30, 1951	(7:25 a.m.)	No flow	No flow	:
Feb. 23	(9:10 a.m.)	No flow	No flow	:
Mar. 22	(7:45 a.m.)	No flow	No flow	:
Apr. 19	(7:20 a.m.)	No flow	No flow	:
June 15	(9:45 a.m.)	No flow	No flow	:
July 30	(8:15 a.m.)	No flow	No flow	:
Aug. 27	(9:35 a.m.)	No flow	No flow	:
Sept. 26	(9:00 a.m.)	No flow	No flow	:
Oct. 25	(8:45 a.m.)	No flow	No flow	:
Nov. 6	(9:20 a.m.)	No flow	No flow	:
Dec. 13	(8:40 a.m.)	No flow	No flow	:
Feb. 26, 1952	(10:05 a.m.)	No flow	No flow	:
Apr. 9	(8:15 a.m.)	No flow	No flow	:
May 16	(8:30 a.m.)	No flow	No flow	:
June 19	(9:00 a.m.)	No flow	No flow	:

SPRING - P. C. BRYCE, U. S. FOREST SERVICE

Location. - Lat. 34°30'40", long. 119°52'20".

Altitude. - About 2,025 feet, from topographic map.

Description. - Seeps in alluvium on creek bed and valley well.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
Aug. 19, 1948		: Less than	:	:
		: 0.002	: Less than 1	:
Feb. 10, 1949		: Less than	:	:
		: .002	: Less than 1	:
Apr. 13	(8:45 a.m.)	: .0013	: 0.59	:
May 24	(11:35 a.m.)	: .00096	: .43	:
June 24	(9:55 a.m.)	: .0013	: .57	:
Aug. 11	(9:45 a.m.)	: .00070	: .32	:
Sept. 30	(9:40 a.m.)	: .00044	: .20	:
Nov. 28	(9:20 a.m.)	: .0013	: .56	: 57
Dec. 28	(12:00 Noon)	: .00092	: .41	: 56
Jan. 26, 1950	(9:30 a.m.)	: .0019	: .86	: 56
Feb. 17	(9:05 a.m.)	: .0036	: 1.6	:
Mar. 9	(11:00 a.m.)	: .0030	: 1.3	: 57
Apr. 18	(10:00 a.m.)	: .0020	: .91	: 66
May 15	(9:45 a.m.)	: .0030	: 1.4	: 57
June 22	(9:40 a.m.)	: .0017	: .74	: 58
Aug. 1	(10:45 a.m.)	: .00073	: .33	: 60
Aug. 22	(8:50 a.m.)	: .0010	: .45	: 60
Oct. 25	(9:50 a.m.)	: .0012	: .56	: 59
Dec. 1	(8:40 a.m.)	: .00051	: .23	: 56
Dec. 20	(8:40 a.m.)	: .00064	: .29	: 56
Jan. 30, 1951	(7:45 a.m.)	: .00082	: .37	: 52
Feb. 23	(9:30 a.m.)	: .0028	: 1.3	: 52
Mar. 22	(8:05 a.m.)	: .0011	: .51	:
Apr. 19	(7:45 a.m.)	: .00062	: .28	:
June 15	(10:05 a.m.)	: .00029	: .13	: 58
July 30	(8:30 a.m.)	: .00053	: .24	:
Aug. 27	(9:55 a.m.)	: .00051	: .23	: 60
Sept. 26	(9:15 a.m.)	: .00052	: .23	: 57
Oct. 25	(8:55 a.m.)	: .00043	: .19	: 54
Nov. 6	(9:40 a.m.)	: .00024	: .11	: 57
Dec. 13	(8:55 a.m.)	: .0020	: .91	: 54
Feb. 26, 1952	(10:30 a.m.)	: .015	: 6.5	: 56
Apr. 9	(8:35 a.m.)	: .11	: 48.	: 54
May 16	(8:45 a.m.)	: .053	: 24.	: 54
June 19	(9:15 a.m.)	: .048	: 21.	:

SPRING - IRVING WILLS

Location.- Lat. 34°31'40", long. 119°51'30".

Altitude.- About 1,280 feet, from topographic map.

Description.- Seep in alluvium on shale. Discharge measured at inflow to settling box from upper 2-inch line.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
June 25, 1948		0.0042	1.9	
Feb. 28, 1949		a .014	a 6.2	
May 11	(8:40 a.m.)	a .015	a 6.6	
June 24	(1:10 p.m.)	a .015	a 6.7	
Sept. 30	(1:15 p.m.)	a No flow	a No flow	
Nov. 1	(1:50 p.m.)	No meas.	No meas.	
Dec. 1	(8:30 a.m.)	No meas.	No meas.	
Dec. 20	(1:30 p.m.)	a .037	a 17	Up-50, L-56
Jan. 17, 1950	(1:30 p.m.)	a .041	a 18	53
Feb. 14	(1:20 p.m.)	a .097	a 44	55
Mar. 17	(11:40 a.m.)	a .041	a 18	
Apr. 20	(11:30 a.m.)	No meas.	No meas.	
May 31	(9:15 a.m.)	a .020	8.9	57
June 23	(10:00 a.m.)	.014	6.4	
Aug. 9	(10:00 a.m.)	No flow	No flow	
Oct. 24	(1:15 p.m.)	No flow	No flow	
Dec. 1	(12 M)	.030	13	58
Dec. 21	(10:30 a.m.)	.032	14	51
Feb. 21, 1951	(10:45 a.m.)	.030	13	55
Mar. 22	(10:00 a.m.)	No meas.	No meas.	
Apr. 25	(1:45 p.m.)	.030	13	
June 15	(11:55 a.m.)	.0044	1.98	58
July 30	(12:45 p.m.)	No flow	No flow	
Aug. 27	(1:05 p.m.)	No flow	No flow	
Sept. 26	(12:25 p.m.)	No flow	No flow	
Oct. 25	(1:40 p.m.)	No flow	No flow	
Dec. 19	(1:30 p.m.)	*		
Feb. 25, 1952	(12:40 p.m.)	b .054	24.	
Apr. 9	(12:45 p.m.)	**		
May 19	(1:00 p.m.)	c .052	24.	
June 23	(11:15 a.m.)	***		

a Combined discharge springs 101 & 102.

b Measured spring 101 only. Line from 102 submerged.

c Measured spring 101 only. Could not drain down to lower line. Plug idle.

* Could hear water in junction box. No key. Caretaker on vacation.

** Spring box overflowing in uncontrolled seeps. Caretaker not at home.

*** Caretaker not at home.

STATION 102

SPRING - IRVING WILLS

Location.- Lat. $34^{\circ}31'50''$, long. $119^{\circ}51'40''$

Altitude.- About 1,100 feet from topographic map.

Description.- Seep in alluvium on creek bed. Discharge measured as inflow to settling box from lower pipe.

DATE	DISCHARGE	
	: Second-feet	: Gals. per min.
June 25, 1948 (estimated)	: 0.01	: 4.4
	:	:
	:	:
	:	:
	:	:
<u>See Station 101.</u>		

SPRING - S. A. WASH-BOULDER, U. S. FOREST SERVICE

Location.- Lat. 34°31'50", long. 119° 51'50" .

Altitude.- About 1,100 feet, from topographic map.

Description.- Seeps in alluvium on valley side. Discharge measured from rate of recovery of water level after it had been bailed below certain level.

DATE	DISCHARGE		TEMP. °F
	: Second-feet	: Gals. per min.:	
June 25, 1948	: Not measured	: Not measured	:
Feb. 16, 1949 (1:15 p.m.)	: 0.0013	: 0.58	:
May 11 (8:30 a.m.)	: .0051	: 2.3	:
June 24 - (1:25 p.m.)	: .0047	: 2.11	:
Sept. 30 (1:30 p.m.)	: .0018	: .83	:
Nov. 1 (2:05 p.m.)	: .0021	: .93	: 60
Dec. 20 (1:45 p.m.)	: .0023	: 1.0	: 55
Jan. 17, 1950 (1:45 p.m.)	: .0047	: 2.1	:
Feb. 14 (1:30 p.m.)	: .0049	: 2.2	: 59
Mar. 17 (11:20 a.m.)	: .0058	: 2.6	:
May 31 (9:30 a.m.)	: .0024	: 1.1	:
June 23 (9:45 a.m.)	: .0026	: 1.2	:
Aug. 9 (10:30 a.m.)	: .0019	: .87	: 62
Oct. 24 (1:25 p.m.)	: .0020	: .88	: 61
Dec. 1 (11:40 a.m.)	: .0025	: 1.1	:
Dec. 21 (10:00 a.m.)	: .0034	: 1.5	: 60
Feb. 21, 1951 (10:30 a.m.)	: .0040	: 1.8	:
Apr. 25 (1:35 p.m.)	: .0022	: 1.0	:
June 15 (12:05 p.m.)	: .0017	: .78	:
July 30 (12:55 p.m.)	: .0019	: .83	:
Aug. 27 (1:10 p.m.)	: .0014	: .61	:
Sept. 26 (12:40 p.m.)	: .0012	: .55	: 61
Oct. 25 (1:50 p.m.)	: .0017	: .75	: 58
Dec. 13 (1:40 p.m.)	: .0020	: .88	:
Feb. 25, 1952 (12:30 p.m.)	: Spring overflowing in uncontrolled seeps		
Apr. 9 (1:00 p.m.)	: .0044	: 1.98	:
May 19 (12:50 p.m.)	: * .0058	: 2.59	:

* Measured at spring overflow pipe.

UNNAMED CREEK TRIBUTARY TO LOS LAURELES CANYON CREEK

Location.- Lat. $34^{\circ}32'10''$, long. $119^{\circ}51'30''$, above Highway 150.

Altitude.- About 850 feet, from topographic map.

Description.- Measuring site in natural stream channel.

Diversions.- Diversions above from springs 101, 102 and 103, by Irving Wills and Nash-Bouldan.

DATE		DISCHARGE		TEMP. °F
		Second-feet	Gals. per min.	
Oct. 29, 1948	(12:05 p.m.)	No flow	No flow	
Nov. 5	(10:50 a.m.)	No flow	No flow	
Dec. 15	(11:35 a.m.)	No flow	No flow	
Jan. 31, 1949	(10:55 a.m.)	0.13	58	
Mar. 16	(12:40 p.m.)	.80	359	
Apr. 18	(2:00 p.m.)	.18	82	
May 27	(1:30 p.m.)	.029	13	
June 22	(1:00 p.m.)	No flow	No flow	
July 18	(11:50 a.m.)	No flow	No flow	
Aug. 16	(12:30 p.m.)	No flow	No flow	
Sept. 27	(2:00 p.m.)	No flow	No flow	
Oct. 25	(12:50 p.m.)	No flow	No flow	
Nov. 18	(12:05 p.m.)	.017	7.6	57
Dec. 21	(1:20 p.m.)	.11	49	
Jan. 16, 1950	(8:40 a.m.)	.30	146	43
Feb. 23	(12:30 p.m.)	.25	114	52
Mar. 23	(11:30 a.m.)	.17	75	50
Apr. 21	(12:30 p.m.)	.098	44	58
May 18	(10:45 a.m.)	.085	38	55
June 27	(2:00 p.m.)	No flow		
July 27	(12:15 p.m.)	No flow		
Aug. 29	(12:05 p.m.)	No flow		
Oct. 18	(1:40 p.m.)	No flow		
Nov. 29	(11:25 a.m.)	.028	13	53
Dec. 14	(11:05 a.m.)	.061	27	55
Jan. 9, 1951	(11:15 a.m.)	.053	24	45
Feb. 9	(11:15 a.m.)	.12	52	
Mar. 6	(11:50 a.m.)	.23	102	52
Apr. 6	(11:10 a.m.)	.072	32	52
May 18	(10:10 a.m.)	No flow	No flow	
June 13	(11:45 a.m.)	No flow	No flow	
July 20	(10:30 a.m.)	No flow	No flow	
Sept. 6	(12:35 p.m.)	No flow	No flow	
20	(8:15 a.m.)	No flow	No flow	
Oct. 12	(11:20 a.m.)	No flow	No flow	
Nov. 6	(1:15 p.m.)	No flow	No flow	
Dec. 14	(9:20 a.m.)	.031	14	48

UNNAMED CREEK TRIBUTARY TO LOS LAURELES CANYON CREEK (cont'd)

DATE		DISCHARGE		TEMP	REMARKS
		Second- feet	Gals. per min.	*F	
1952					
Jan. 11	(10:50 a.m.)	.30	135.	58	
Feb. 20	(2:15 p.m.)	1.06	476.	50	
Apr. 16	(2:10 p.m.)	1.98	890.	56	
May 9	(1:10 p.m.)	1.20	538.	58	
21	(1:55 p.m.)	.87	392.	63	
June 19	(2:20 p.m.)	.42	190.		

SPRING - A, DOWLING

Location. - Lat. $34^{\circ}32'20''$, long. $119^{\circ}51'30''$.

Altitude. - About 920 feet, from topographic map.

Description. - Small spring in debris filled draw and stone-curbed spring in adjacent draw connected together and piped to storage tank. Discharge measured at end of 1-inch pipe line to storage tank.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
May 2, 1949	(10:00 a.m.)	0.0011	0.50	
Apr. 20	(11:30 a.m.)	.0024	1.07	
May 27	(11:50 a.m.)	.00068	.31	
June 22	(11:00 a.m.)	.00027	.12	
July 18	(1:15 p.m.)	.00021	.096	88
Aug. 16	(1:00 p.m.)	.00019	.083	
Sept. 27	(2:20 p.m.)	.00078	.35	
Oct. 25	(2:00 p.m.)	.00020	.088	
Nov. 18	(12:30 p.m.)	.00076	.34	
Dec. 21	(2:30 p.m.)	.00086	.38	
Jan. 16, 1950	(9:00 a.m.)	.00035	.16	
Feb. 23	(1:50 p.m.)	.00054	.24	57
Mar. 23	(9:45 a.m.)	.00098	.44	51
Apr. 21	(10:45 a.m.)	.00078	.35	67
May 18	(9:15 a.m.)	.000056	.02	55
June 28	(9:15 a.m.)	No flow		
July 25	(10:45 a.m.)	No flow		
Aug. 29	(12:30 p.m.)	No flow		
Oct. 18	(12:30 p.m.)	No flow		
Nov. 29	(10:00 a.m.)	No flow		
Dec. 14	(9:30 a.m.)	No flow		
Jan. 9, 1951	(10:00 a.m.)	No flow		
Feb. 9	(9:45 a.m.)	No flow		
Mar. 6	(12:30 p.m.)	18 drops in 10 seconds		
Apr. 6	(9:45 a.m.)	No flow		
May 18	(10:30 a.m.)	No flow		
June 13	(10:10 a.m.)	No flow + 20 drops in 18 seconds		
July 20	(9:10 a.m.)	No flow		
Sept. 6	(11:00 a.m.)	No flow		
20	(8:45 a.m.)	* .00095	.43	64
Oct. 12	(10:00 a.m.)	No flow - storage tanks full		
Nov. 6	(11:40 a.m.)	No flow - storage tanks full		
Dec. 14	(8:00 a.m.)	No flow		
Jan. 11, 1952	(9:20 a.m.)	.0013	.60	46
Feb. 20	(12:45 p.m.)	.0037	1.67	55
Apr. 16	(12:45 p.m.)	.0042	1.88	60
May 9	(11:30 a.m.)	.0033	1.50	63
21	(12:05 p.m.)	.0028	1.25	65
June 19	(12:20 p.m.)	.0019	.84	

* No explanation at this flow. Caretaker not home.

SPRING - A. DOWLING

Location.- Lat. $34^{\circ}32'20''$, long. $119^{\circ}52'00''$.

Altitude.- About 1,000 feet, from topographic map.

Description.- Wood-curbed spring box in draw, 4-inch horizontal well (187 feet long) and two small seeps connected together and piped to house or storage tank. Discharge measured at sunken concrete storage tank below swimming pool.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
Mar. 2, 1949	(10:20 a.m.)	0.0031	1.4	
Apr. 20	(12:00 noon)	pumping	pumping	
May 27	(12:35 p.m.)	.00029	.13	
June 22	(12:00 noon)	.00061	.27	
July 18	(12:15 p.m.)	.00090	.41	87
Aug. 16	(2:00 p.m.)	.0014	.62	
Sept. 27	(3:20 p.m.)	.0013	.60	
Oct. 25	(3:15 p.m.)	.0012	.56	
Nov. 18	(1:00 p.m.)	.0014	.62	
Dec. 21	(3:15 p.m.)	.0011	.48	
Jan. 16, 1950	(10:00 a.m.)	.0011	.48	
Feb. 23	(1:00 p.m.)	.0017	.75	57
Mar. 23	(10:55 a.m.)	.0015	.68	54
Apr. 21	(11:45 a.m.)	.00035	.16	68
May 18	(10:15 a.m.)	.00037	.17	58
June 28	(10:15 a.m.)	.001	.50	66
July 27	(11:45 a.m.)	.00062	.28	72
Aug. 29	(1:30 p.m.)	.00068	.31	73
Oct. 18	(1:20 p.m.)	.00024	.11	72
Nov. 29	(10:50 a.m.)	.0011	.50	55
Dec. 14	(10:30 a.m.)	.0010	.47	53
Jan. 9, 1951	(10:45 a.m.)	.0010	.45	46
Feb. 9	(10:45 a.m.)	.00074	.33	
Mar. 6	(1:35 p.m.)	.00064	.29	50
Apr. 6	(10:45 a.m.)	.00044	.20	52
May 18	(11:30 a.m.)	.00090	.41	60
June 13	(11:10 a.m.)	.00042	.019	91
July 20	(10:10 a.m.)	.00054	.24	75
Sept. 6	(11:55 a.m.)	.00081	.37	66
20	(9:55 a.m.)	.00065	.29	70
Oct. 12	(11:00 a.m.)	.00068	.39	64
Nov. 6	(12:45 p.m.)	.00017	.08	75
Dec. 14	(9:00 a.m.)	.00020	.36	44
Jan. 11, 1952	(10:30 a.m.)	.00076	.34	40
Feb. 20	(1:45 p.m.)	.00052	.23	51
Apr. 16	(1:35 p.m.)	.0058	2.61	56
May 9	(12:30 p.m.)	.0030	1.36	60
21	(1:25 p.m.)	.0026	1.15	65
June 19	(1:45 p.m.)	.0020	.88	

SPRING - A. DOWLING

Location.- Lat. $34^{\circ}32'20''$, long. $119^{\circ}52'00''$.

Altitude.- About 1,100 feet, from topographic map.

Description.- Measured at union 50 feet below a 187-foot horizontal well.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
May 27, 1949	(12:35 p.m.)	: 0.0021	: 0.94	:
June 22,	(11:20 a.m.)	: .0016	: .71	:
July 18	(12:30 p.m.)	: .0019	: .83	: 61
Aug. 16	(1:20 p.m.)	: .0014	: .62	: 60
Sept. 27	(2:40 p.m.)	: .0010	: .47	: 60
Oct. 25	(2:20 p.m.)	: .0012	: .54	: 60
Nov. 13	(1:15 p.m.)	: .00062	: .28	: 70
Dec. 21	(2:45 p.m.)	: .0015	: .65	: 58
Jan. 16, 1950	(9:20 a.m.)	: .0020	: .88	:
Feb. 23	(1:15 p.m.)	: .0019	: .83	: 59
Mar. 23	(10:05 a.m.)	: .0020	: .88	: 60
Apr. 21	(11:00 a.m.)	: .0013	: .58	: 60
May 18	(9:30 a.m.)	: .0014	: .62	: 60
June 28	(9:30 a.m.)	: .00095	: .43	: 65
July 27	(11:10 a.m.)	: .0012	: .56	: 63
Aug. 29	(12:50 p.m.)	: .0012	: .56	: 65
Oct. 18	(12:45 p.m.)	No Meas.		:
Nov. 29	(10:15 a.m.)	: .00017	: .08	: 57
Dec. 14	(9:45 a.m.)	: .00095	: .43	: 59
Jan. 9, 1951	(10:15 a.m.)	: .0011	: .50	: 56
Feb. 9	(10:00 a.m.)	: .0013	: .60	:
Mar. 6	(12:50 p.m.)	: .0017	: .75	: 59
Apr. 6	(10:05 a.m.)	: .0024	: 1.07	: 60
May 18	(10:45 a.m.)	: .0012	: .52	: 60
June 13	(10:30 a.m.)	: .0013	: .60	: 68
July 20	(9:25 a.m.)	: .0011	: .48	: 63
Sept. 6	(11:20 a.m.)	: .00062	: .28	: 63
20	(9:00 a.m.)	: .00059	: .26	: 65
Oct. 12	(10:20 a.m.)	: .00081	: .37	: 60
Nov. 6	(12:05 p.m.)	: .00090	: .41	: 63
Dec. 14	(8:15 a.m.)	: .0010	: .47	: 55
Jan. 11	(9:45 a.m.)	: .0015	: .65	: 59
Feb. 20	(1:10 p.m.)	: .0067	: 3.00	: 59
Apr. 16	(1:05 p.m.)	: .0094	: 4.22	: 56
May 9	(11:50 a.m.)	: .0047	: 2.12	: 62
21	(12:30 p.m.)	: .0030	: 1.36	: 59
June 19	(12:50 p.m.)	: .0045	: 2.00	:

STATION 106-B

SPRING - A. DOWLING

Location.- Lat. 34°32'20", long. 119°52'05".Altitude.- About 1,200 feet, from topographic map.Description.- Measured 50 feet below wood-curbed box in canyon.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
May 27, 1949	(12:20 p.m.)	0.0046	2.1	
June 22		.0069	3.08	57
July 18	(12:50 p.m.)	.0048	2.14	59
Aug. 16	(1:40 p.m.)	.0050	2.26	60
Sept. 27	(3:00 p.m.)	.00038	.17	58
Oct. 25	(2:45 p.m.)	.00048	.21	55
Nov. 18	(12:45 p.m.)	.00019	.083	72
Dec. 21	(3:00 p.m.)	.000029	.013	47
Jan. 16, 1950	(9:35 a.m.)	.00066	.29	37
Feb. 23	(1:30 p.m.)	.00028	.13	55
Mar. 23	(10:30 a.m.)	.00030	.13	50
Apr. 21	(11:15 a.m.)	.00022	.10	72
May 18	(9:45 a.m.)	.00022	.10	53
June 28	(9:45 a.m.)	.00061	.27	
July 27	(11:25 a.m.)	.00048	.21	59
Aug. 29	(1:10 p.m.)	.00030	.13	65
Oct. 18	(1:00 p.m.)	.00043	.19	57
Nov. 29	(10:30 a.m.)	.00029	.13	55
Dec. 14	(10:00 a.m.)	.00019	.083	56
Jan. 9, 1951	(10:30 a.m.)	.00048	.21	47
Feb. 9	(10:15 a.m.)	.00017	.078	
Mar. 6	(1:10 p.m.)	.00074	.33	52
Apr. 6	(10:25 a.m.)	.00017	.076	52
May 18	(11:00 a.m.)	.00047	.21	54
June 13	(10:45 a.m.)	.00043	.19	59
July 20	(9:45 a.m.)	.00041	.18	64
Sept. 6	(11:35 a.m.)	.00045	.20	57
20	(9:30 a.m.)	.00048	.21	63
Oct. 12	(10:35 a.m.)	.00036	.16	57
Nov. 6	(12:20 p.m.)	.00037	.16	58
Dec. 14	(8:30 a.m.)	.00016	.070	45
Jan. 11, 1952	(10:00 a.m.)	.00062	.28	51
Feb. 20	(1:30 p.m.)	.00062	.28	53
Apr. 16	(1:15 p.m.)	.0010	.45	62
May 9	(12:05 p.m.)	.0018	.79	68
21	(12:50 p.m.)	.0018	.83	56
June 19	(1:15 p.m.)	.000090	.004	

HOT SPRINGS CREEK AT MOUTH NEAR SANTA BARBARA.

Location.- Lat. $34^{\circ}32'40''$, $119^{\circ}52'50''$, at Highway 150 crossing about 0.5 mile above junction with Santa Ynez River.

Altitude.- About 825 feet, from topographic map.

Description.- Measuring site in natural channel just upstream of the Highway.

Diversion.- One diversion of $1\frac{1}{2}$ miner's inch above, reported by manager of Murphy Ranch.

Previous measurements.- 1935 to 1946.

DATE	DISCHARGE		TEMP. °F
	: Second-feet	: Gals. per min.	
Oct. 29, 1948	: 0.40	: 180	:
Nov. 18 (1:25 p.m.)	: .31	: 140	:
Nov. 30 (2:50 p.m.)	: .33	: 150	:
Dec. 15 (11:15 a.m.)	: .44	: 200	:
Jan. 31, 1949 (10:30 a.m.)	: .47	: 210	:
Mar. 18 (12:30 p.m.)	: .72	: 320	:
Apr. 18 (2:20 p.m.)	: .44	: 198	:
May 27 (11:00 a.m.)	: .10	: 45.3	:
June 21 (2:00 p.m.)	: .26	: 114	: 64
July 18 (1:45 p.m.)	: No flow	: No flow	: 71
Aug. 16 (2:15 p.m.)	: .078	: 35	: 66
Sept. 27 (12:50 p.m.)	: .096	: 43	: 61
Oct. 25 (12:15 p.m.)	: .16	: 70	: 56
Nov. 18 (1:45 p.m.)	: .29	: 130	: 58
Dec. 21 (12:50 p.m.)	: .42	: 190	: 46
Jan. 16, 1950 (10:30 a.m.)	: .62	: 278	: 47
Feb. 23 (2:15 p.m.)	: .51	: 230	: 57
Mar. 23 (9:05 a.m.)	: .40	: 180	: 52
Apr. 21 (10:05 a.m.)	: .39	: 180	: 58
May 18 (8:50 a.m.)	: .22	: 101	: 55
June 27 (1:20 p.m.)	: .13	: 60	: 63
July 27 (8:30 a.m.)	: .28	: 128	: 62
Aug. 29 (1:55 p.m.)	: .070	: 31	: 60
Oct. 18 (11:50 a.m.)	: .17	: 75	: 59
Nov. 29 (8:10 a.m.)	: .38	: 170	: 52
Dec. 14 (9:00 a.m.)	: .45	: 201	: 57
Jan. 9, 1951 (9:20 a.m.)	: .38	: 171	: 45
Feb. 9 (9:10 a.m.)	: .46	: 206	:
Mar. 16 (8:25 a.m.)	: .37	: 166	: 53
Apr. 6 (9:10 a.m.)	: .25	: 113	: 56
May 17 (1:15 p.m.)	: .16	: 73	: 64
June 14 (7:30 a.m.)	: .34	: 152	: 59
July 20 (11:35 a.m.)	: .075	: 34	: 70
Aug. 30 (11:05 a.m.)	: .16	: 70	: 64
Sept. 20 (10:25 a.m.)	: .18	: 83	: 63

HOT SPRINGS CREEK AT MOUTH NEAR SANTA BARBARA (cont'd)

DATE		DISCHARGE		TEMP	REMARKS
		Second-foot	Gals. per min.	"F	
1951					
Oct. 12	{ 9:25 a.m. }	.12	54	55	
Nov. 6	{ 11:05 a.m. }	.24	107	56	
Dec. 13	{ 1:00 p.m. }	.29	128	50	
1952					
Jan. 11	{ 9:05 a.m. }	.48	214	47	
Feb. 20	{ 12:15 p.m. }	.62	276	52	
Apr. 16	{ 12 M }	.93	418	58	
May 9	{ 10:50 a.m. }	.45	203	59	
21	{ 10:35 a.m. }	.34	152	62	
June 19	{ 11:35 a.m. }	.23	104		

HOT SPRINGS CREEK ABOVE DIVERSION

Location. - Lat. $34^{\circ}22'30''$, Long. $119^{\circ}52'50''$. About 1.0 mile above junction with Santa Rosa River.

Altitude. - About 950 feet from topographic map.

Description. - Measurements made in creek bed above point of diversion.

Date	Time	Discharge		°F
		Second-foot	1000 ft. per min.	
July 27, 1930	(9:35 a.m.)	.30	137	65
Aug. 29	(2:35 p.m.)	.23	103	75
Oct. 18	(11:05 a.m.)	.33	148	63
Nov. 29	(9:05 a.m.)	.40	177	58
Dec. 14	(8:25 a.m.)	.40	177	64
Jan. 9, 1931	(8:35 a.m.)	.46	206	52
Feb. 9	(8:20 a.m.)	.41	183	58
Mar. 16	(7:50 a.m.)	.46	193	58
Apr. 6	(8:20 a.m.)	.48	199	60
May 17	(12:30 p.m.)	.53	220	64
June 14	(6:45 a.m.)	.63	247	63
July 28	(12:10 p.m.)	.73	271	70
Aug. 30	(11:35 a.m.)	.83	313	69
Sept. 25	(11:00 a.m.)	.83	313	67
Oct. 12	(8:35 a.m.)	.82	309	68
Nov. 6	(10:35 a.m.)	.86	325	64
Dec. 13	(1:35 p.m.)	.97	355	64
Jan. 11, 1932	(8:40 a.m.)	.94	354	64
Feb. 28	(11:20 a.m.)	.98	373	65
Apr. 16	(11:25 a.m.)	.99	383	68
May 9	(10:30 a.m.)	.86	335	64
May 21	(9:55 a.m.)	.54	224	62
June 19	(10:50 a.m.)	.39	176	61

JARAMILLO CREEK TRIBUTARY TO SANTA YNEZ RIVER

Location.- Lat. $34^{\circ}33'10''$, long. $119^{\circ}54'40''$, at a site along Highway 150 and about 1.0 mile above junction with the Santa Ynez River.

Altitude.- About 800 feet, from topographic map.

Description.- Measuring site in natural stream channel.

Diversion.- None reported above station.

DATE		DISCHARGE		TEMP.
		Second-foot	Gals. per min.	°F
Nov. 5, 1948	(10:15 a.m.)	No flow	No flow	
Dec. 15	(11:00 a.m.)	No flow	No flow	
Mar. 18, 1949	(1:00 p.m.)	0.28	130	
Apr. 18		.061	27	
May 27	(10:45 a.m.)	No flow	No flow	
June 21	(1:30 p.m.)	No flow	No flow	
July 18	(2:00 p.m.)	No flow	No flow	
Aug. 16	(3:00 p.m.)	No flow	No flow	
Sept. 27	(12:30 p.m.)	No flow	No flow	
Oct. 25	(11:45 a.m.)	No flow	No flow	
Nov. 18	(2:00 p.m.)	No flow	No flow	
Dec. 21	(12:30 p.m.)	No flow	No flow	
Jan. 16, 1950	(11:00 a.m.)	.059	26	48
Feb. 23	(2:45 p.m.)	.13	59	51
Mar. 23	(8:30 a.m.)	.046	21	50
Apr. 21	(9:25 a.m.)	.023	10	54
May 18	(8:15 a.m.)	No flow	No flow	
June 27	(12:40 p.m.)	No flow	No flow	
July 27	(8:10 a.m.)	No flow	No flow	
Aug. 29	(3:00 p.m.)	No flow	No flow	
Oct. 18	(10:30 a.m.)	No flow	No flow	
Nov. 29	(7:45 a.m.)	No flow	No flow	
Dec. 14	(8:00 a.m.)	No flow	No flow	
Jan. 9, 1951	(8:00 a.m.)	No flow	No flow	
Feb. 9	(7:45 a.m.)	No flow	No flow	
Mar. 16	(9:30 a.m.)	No flow	No flow	
Apr. 6	(7:45 a.m.)	No flow	No flow	
May 17	(1:45 p.m.)	No flow	No flow	
June 14	(8:00 a.m.)	No flow	No flow	
July 20	(12:45 p.m.)	No flow	No flow	
Aug. 30	(11:55 a.m.)	No flow	No flow	
Sept. 20	(11:50 a.m.)	No flow	No flow	
Oct. 12	(8:00 a.m.)	No flow	No flow	
Nov. 6	(2:30 p.m.)	No flow	No flow	
Dec. 13	(1:45 p.m.)	No flow	No flow	
Jan. 11, 1952	(12:10 p.m.)	.027	12	44
Feb. 20	(10:40 a.m.)	.28	127	48
Apr. 16	(10:30 a.m.)	.47	213	54
May 9	(7:20 a.m.)	.21	96	52
21	(9:10 a.m.)	.14	61	57
June 19	(10:00 a.m.)	.021	9.4	

SPRING - T. M. STORKE

Location.- Lat. $34^{\circ}32'50''$, long. $119^{\circ}56'10''$

Altitude.- About 1,190 feet from topographic map.

Description.- Wood-curbed seep in alluvium in creek bed. Discharge obtained by bailing water from spring and measuring the rate of recovery.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	: °F
July 20, 1948		No meas.	No measurement:	
Dec. 16		No meas.	No measurement:	
Feb. 3, 1949	(3:30 p.m.)	0.0024	1.1	
Mar. 22	(12:35 p.m.)	.064	29	
Apr. 21	(11:30 a.m.)	.014	6.4	
May 31	(12:55 p.m.)	.0062	2.8	
June 23	()	.0016	.72	61
July 21	(10:45 a.m.)	No flow	No flow	
Aug. 18	(10:15 a.m.)	No flow	No flow	
Sept. 29	(12:20 p.m.)	No flow	No flow	
Oct. 27	(11:30 a.m.)	No flow	No flow	
Nov. 21	(1:15 p.m.)	No flow	No flow	
Dec. 22	(11:00 a.m.)	.0040	1.8	47
Jan. 19, 1950	(11:45 a.m.)	.057	26	
Feb. 24	(11:15 a.m.)	.038	17	55
Mar. 21	(10:30 a.m.)	.013	5.8	50
Apr. 20	(11:00 a.m.)	.014	6.3	55
May 17	(10:10 a.m.)	.0045	2.0	54
June 29	(11:00 a.m.)	No flow	No flow	
July 26	(10:35 a.m.)	No flow	No flow	
Aug. 31	(10:30 a.m.)	No flow	No flow	
Oct. 19	(11:00 a.m.)	No flow	No flow	
Nov. 30	(11:15 a.m.)	No flow	No flow	
Dec. 13	(1:00 p.m.)	No flow	No flow	
Jan. 10, 1951	(12:45 p.m.)	No flow	No flow	
Feb. 20	(11:00 a.m.)	No flow	No flow	
Mar. 16	1:10 p.m.)	.0058	2.6	
Apr. 18	(11:10 a.m.)	.0026	12.	53
May 17	(10:40 a.m.)	.0037	1.66	54
June 14	(10:50 a.m.)	No flow	No flow	
July 25	(10:15 a.m.)	No flow	No flow	
Sept. 7	(10:00 a.m.)	No flow	No flow	
25	(9:45 a.m.)	No flow	No flow	
Oct. 26	(10:30 a.m.)	No flow	No flow	
Nov. 8	(11:05 a.m.)	No flow	No flow	
Dec. 7	(12:25 p.m.)	.00048	.21	43
Feb. 21	(11:20 a.m.)	.091	41.	48
May 8	(10:55 a.m.)	.095	43.	53
June 18	(11:55 a.m.)	.025	11.	

SPRING - T. M. STORKE

Location.- Lat. 34°33'00", long. 119°56'10".

Altitude.- About 1,185 feet, from topographic map.

Description.- Two wood-curbed seeps on valley side. Discharge measured at aerator. Water has a "sulphur" odor and taste.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
July 20, 1948	(estimated)	0.0014	0.65	
Dec. 16		.0010	.46	
Feb. 3, 1949	(3:15 p.m.)	.0013	.58	
Mar. 22	(12:10 p.m.)	.0022	.98	
Apr. 21	(11:00 a.m.)	.0021	.94	
May 31	(12:45 p.m.)	.0019	.83	
June 23	(10:40 a.m.)	.0015	.68	89
July 21	(10:30 a.m.)	.0012	.53	82
Aug. 18	(10:00 a.m.)	.00076:	.34	80
Sept. 29	(12:00 noon)	.00058:	.26	73
Oct. 27	(11:15 a.m.)	.00063:	.28	63
Nov. 21	(1:00 p.m.)	.00074:	.33	62
Dec. 22	(10:45 a.m.)	.00084:	.38	
Jan. 19, 1950	(11:30 a.m.)	.0012	.56	60
Feb. 24	(11:00 a.m.)	.0022	1.0	65
Mar. 21	(10:15 a.m.)	.0022	.97	69
Apr. 20	(10:45 a.m.)	.00098:	.44	71
May 17	(9:50 a.m.)	.00095:	.43	57
June 29	(10:45 a.m.)	.00084:	.36	82
July 28	(10:30 a.m.)	.00076:	.34	67
Aug. 31	(10:25 a.m.)	.00061:	.25	70
Oct. 19	(10:45 a.m.)	.00045:	.20	78
Nov. 30	(11:00 a.m.)	.00030:	.35	60
Dec. 13	(12:50 p.m.)	.00080:	.36	62
Jan. 10, 1951	(12:30 p.m.)	.00079:	.35	47
Feb. 20	(10:45 a.m.)	.00078:	.35	61
Mar. 16	(12:50 p.m.)	.00084:	.38	71
Apr. 18	(10:45 a.m.)	.00060:	.36	68
May 17	(10:20 a.m.)	.00078:	.35	69
June 14	(10:30 a.m.)	.00063:	.28	78
July 25	(10:00 a.m.)	.00017:	.08	
Sept. 7	(9:40 a.m.)	.00051:	.23	71
25	(9:30 a.m.)	.00039:	.18	62
Oct. 26	(10:15 a.m.)	.00043:	.19	62
Nov. 8	(10:50 a.m.)	.00029:	.13	63
Dec. 7	(12:10 p.m.)	.00062:	.28	57
Feb. 21, 1952	(11:05 a.m.)	.0010	.46	60
May 8	(10:20 a.m.)	.0011	.50	68
June 18	(11:30 a.m.)	.0011	.50	

BLAIR CANYON CREEK ABOVE STORKE DIVERSION

Location.— Lat. $34^{\circ}32'30''$, $119^{\circ}56'30''$, at diversion dam 1.2 miles southwest of Storke residence.

Altitude.— About 1,600 feet, from topographic map.

Description.— Measuring site just above Storke diversion dam.

Diversion.— None reported above station.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	
July 3, 1948	(estimated)	0.002	1	
Dec. 16		.0027	1.2	
Feb. 3, 1949	(4:30 p.m.)	.0095	4.3	45
Mar. 22	(11:10 a.m.)	.031	14	
Apr. 21	(10:30 a.m.)	.0089	4.0	
May 31	(12:05 a.m.)	.0063	2.82	
June 23	(10:00 a.m.)	.0037	1.67	58
July 21	(9:40 a.m.)	.0030	1.36	56
Aug. 18	(9:30 a.m.)	.0028	1.24	55
Sept. 29	(11:15 a.m.)	.0020	.88	56
Oct. 27	(10:30 a.m.)	.0021	.94	50
Nov. 21	(12:15 p.m.)	.0024	1.09	52
Dec. 22	(10:15 a.m.)	.010	4.5	
Jan. 19	(10:30 a.m.)	.027	12	52
Feb. 24	(10:15 a.m.)	.017	7.8	50
Mar. 21	(9:35 a.m.)	.0098	4.4	51
Apr. 20	(10:00 a.m.)	.0087	3.9	55
May 17	(9:20 a.m.)	.0065	2.9	52
June 29	(10:00 a.m.)	.0028	1.25	58
July 28	(9:15 a.m.)	.0030	1.37	56
Aug. 31	(9:15 a.m.)	.0021	.95	60
Oct. 19	(9:45 a.m.)	.0017	.75	55
Nov. 30	(10:00 a.m.)	.0021	.94	52
Dec. 13	(12:20 p.m.)	.0025	1.10	52
Jan. 10, 1951	(11:50 a.m.)	.0042	1.90	48
Feb. 20	(10:00 a.m.)	.0042	1.88	45
Mar. 6	(12:25 p.m.)	.0080	3.6	51
Apr. 18	(9:45 a.m.)	.0042	1.89	53
May 17	(9:30 a.m.)	.0038	1.71	53
June 14	(9:45 a.m.)	.0023	1.03	57
July 25	(9:00 a.m.)	.0019	.85	55
Sept. 7	(9:10 a.m.)	.0014	.61	54
25	(8:50 a.m.)	.0014	.64	57
Oct. 26	(9:50 a.m.)	.0019	.85	52
Nov. 8	(10:20 a.m.)	.0019	.83	53
Dec. 7	(11:35 a.m.)	.0035	1.57	46
Feb. 21, 1952	(10:25 a.m.)	.089	40	52
May 8	(10:00 a.m.)	.18	78	54
June 18	(10:45 a.m.)	.044	20	

SPRING - DAVID GRAY, JR.

Location.- Lat. $34^{\circ}32'40''$, long. $119^{\circ}56'40''$.

Altitude.- About 1,600 feet, from topographic map.

Description.- Wood-curbed spring in hillside. Discharge measured at spring.

DATE		DISCHARGE		TEMP.
		: Second-feet :	Gals. per min.:	: °F.
Dec. 16, 1948		: 0.00094 :	0.42	:
Feb. 3, 1949	(5:45 p.m.)	: .0011 :	.50	: 53
Mar. 22	(10:30 a.m.)	: .0016 :	.70	:
Apr. 21	(10:00 a.m.)	: .0012 :	.56	:
May 31	(11:20 a.m.)	: .0010 :	.47	:
June 23	(8:45 a.m.)	: .00078 :	.35	: 86
July 21	(9:00 a.m.)	: .00068 :	.31	: 82
Aug. 18	(8:45 a.m.)	: .00067 :	.30	: 78
Sept. 29	(10:15 a.m.)	: .00054 :	.24	: 84
Oct. 27	(9:30 a.m.)	: .00051 :	.23	: 63
Nov. 21	(11:50 a.m.)	: .00068 :	.31	: 58
Dec. 22	(9:45 a.m.)	: .00084 :	.38	: 42
Jan. 19, 1950	(9:45 a.m.)	: .0012 :	.54	: 53
Feb. 24	(9:40 a.m.)	: .0012 :	.54	: 53
Mar. 21	(9:00 a.m.)	: .0010 :	.47	: 60
Apr. 20	(9:15 a.m.)	: .00090 :	.41	: 76
May 17	(8:45 a.m.)	: .00081 :	.37	: 52
June 29	(9:15 a.m.)	: .00043 :	.19	: 104
July 28	(8:15 a.m.)	: .00039 :	.18	: 65
Aug. 31	(8:15 a.m.)	: .00033 :	.15	: 69
Oct. 19	(8:45 a.m.)	: .00032 :	.14	: 76
Nov. 30	(9:00 a.m.)	: .00049 :	.22	: 57
Dec. 13	(11:30 a.m.)	: .00049 :	.22	: 57
Jan. 10, 1951	(11:15 a.m.)	: .00046 :	.20	: 46
Feb. 20	(9:15 a.m.)	: .00045 :	.20	: 42
Mar. 16	(11:20 a.m.)	: .00048 :	.21	: 64
Apr. 18	(8:45 a.m.)	: .00042 :	.19	: 64
May 17	(8:35 a.m.)	: .00037 :	.17	: 70
June 14	(9:05 a.m.)	: .00015 :	.067	: 81
July 25	(8:00 a.m.)	: .00025 :	.11	: 60
Sept. 7	(8:10 a.m.)	: .00022 :	.098	: 65
25	(8:00 a.m.)	: .00022 :	.10	: 55
Oct. 26	(9:00 a.m.)	: .00024 :	.11	: 45
Nov. 8	(9:40 a.m.)	: .00024 :	.11	: 51
Dec. 7	(11:00 a.m.)	: .00048 :	.21	: 39
Feb. 21	(9:45 a.m.)	: .0076 :	3.40	: 55
May 18	(9:10 a.m.)	: .013 :	5.8	: 57
June 18	(9:45 a.m.)	: .0015 :	.65	:

SPRING - T. N. STORME

Location.- Lat. 34°33'20", long. 119°55'40".

Altitude.- About 850 feet, from topographic map.

Description.- Three wood-curbed seeps in alluvium capping terrace. Discharge measured as inflow to galvanized corrugated storage tank.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
July 20, 1948	(estimated)	0.0003	0.14	
Dec. 16		.00040	.18	
Feb. 3, 1949	(2:00 p.m.)	.00020	.088	
Mar. 22	(1:40 p.m.)	.000045	.020	
Apr. 21	(12-noon)	.00019	.086	
May 31	(1:30 p.m.)	.000067	.030	
June 23	(11:45 a.m.)	.000054	.024	81
July 21	(11:30 a.m.)	.000043	.019	69
Aug. 18	(10:45 a.m.)	.000047	.021	73
Sept. 29	(1:30 p.m.)	.00020	.091	81
Oct. 27	(12:15 p.m.)	.00032	.14	61
Nov. 21	(1:30 p.m.)	.00040	.18	61
Dec. 22	(11:30 a.m.)	.00036	.16	46
Jan. 19, 1950	(12:30 p.m.)	.00038	.17	57
Feb. 24	(12:05 p.m.)	.00042	.19	55
Mar. 21	(11:00 a.m.)	.00042	.19	63
Apr. 20	(11:30 a.m.)	.00031	.14	68
May 17	(10:45 a.m.)	.00013	.059	55
June 29	(11:45 a.m.)	.000031	.036	87
July 28	(11:25 a.m.)	.00013	.060	63
Aug. 31	(11:00 a.m.)	.00015	.068	70
Oct. 19	(11:45 a.m.)	.00011	.049	75
Nov. 30	(11:45 a.m.)	.000030	.013	56
Dec. 13	(1:45 p.m.)	No meas.-Intake line plugged		
Jan. 10, 1951	(1:45 p.m.)	10 drops in 9.0 seconds		
Feb. 20	(11:30 a.m.)	27 drops in 20.0 seconds		
Mar. 16	(2:00 p.m.)	20 drops in 10.0 seconds		
Apr. 18	(11:45 a.m.)	.000056	.025	65
May 17	(11:25 a.m.)	80 drops in 1 minute		
June 14	(11:35 a.m.)	30 drops in 1 minute		
July 25	(11:00 a.m.)	.00027	.12	65
Sept. 7	(10:30 a.m.)	.00019	.085	66
25	(10:45 a.m.)	.00015	.068	64
Oct. 26	(11:00 a.m.)	no Meas. Spring being repaired.		
Nov. 8	(11:40 a.m.)	.0011	.50	
Dec. 7	(12:45 p.m.)	.00073	.33	
Feb. 21, 1952	(9:55 a.m.)	.020	9.0	55
May 8	(12:45 p.m.)	Intake line to tank submerged.		
June 18	(8:45 a.m.)	.0030	1.36	

* Repair work on spring completed.

SPRING - T. M. STORKE

Location.- Lat. 34°33'20", long. 119°55'40".

Altitude.- About 850 feet, from topographic map.

Description.- Wood-curbed seep in alluvium capping terrace. Discharge measured as inflow to stock tank.

DATE	DISCHARGE		TEMP. °F.
	: Second-feet	: Gals. per min.	
July 20, 1948	: 0.000078:	0.035	:
Dec. 16	: .000080:	.036	:
Feb. 3, 1949 (1:20 p. m.)	: .000089:	.040	:
Mar. 22 (2:10 p.m.)	: .00022 :	.099	:
Apr. 21 (12:20 p.m.)	: .00024 :	.11	:
May 31 (1:45 p.m.)	: .00018 :	.082	:
June 23 (12:00 noon)	: .00010 :	.047	:
July 21 (11:45 a.m.)	One drop every 3 seconds		:
Aug. 18 (11:00 a.m.)	: .000049:	.021	: 80
Sept. 29 (1:50 p.m.)	One drop per second		: 77
Oct. 27 (12:30 p.m.)	One drop per 8 seconds.		: 62
Nov. 21 (1:45 p.m.)	: .000067:	.020	: 56
Dec. 22 (11:45 a.m.)	: .00010 :	.045	: 40
Jan. 19, 1950 (12:45 p.m.)	: .00020 :	.091	: 54
Feb. 24 (12:20 p.m.)	: .00039 :	.17	: 54
Mar. 21 (11:15 a.m.)	: .00048 :	.21	: 59
Apr. 20 (11:45 a.m.)	: .00057 :	.25	: 68
May 17 (11:00 a.m.)	: .00038 :	.17	: 55
June 29 (12 M)	: .000089:	.040	: 75
July 28 (11:45 a.m.)	: .000058:	.026	: 69
Aug. 31 (11:15 a.m.)	No flow:		:
Oct. 19 (12 M)	No flow:		:
Nov. 30 (12:50 p.m.)	: .00028 :	.12	: 49
Dec. 13 (	: .00011 :	.050	: 60
Jan. 10, 1951 (2:00 p.m.)	: .000057 :	.030	: 46
Feb. 20 (11:45 a.m.)	: .000042 :	.019	: 49
Mar. 16 (1:45 p.m.)	: .00010 :	.046	: 60
Apr. 18 (12:05 p.m.)	: .000056:	.025	: 68
May 17 (11:45 a.m.)	: .000018:	.0081	:
June 14 (11:50 a.m.)	No flow:		:
July 25 (11:15 a.m.)	No flow:		:
Sept. 7 (10:45 a.m.)	No flow:		:
25 (11:00 a.m.)	No flow:		:
Oct. 26 (11:15 a.m.)	No flow:		:
Nov. 8 (11:55 a.m.)	No flow:		:
Dec. 7 (12:55 p.m.)	: .000049:	.022	: 42
Feb. 21, 1952 (10:05 a.m.)	: .0018 :	.79	: 52
May 8 (12:30 p.m.)	: .0023 :	1.03	: 62
June 18 (8:20 a.m.)	: .0026 :	1.15	:

UNNAMED TRIBUTARY TO SANTA YNEZ RIVER ABOVE GRAY DIVERSION

Location.- Lat. $34^{\circ}32'40''$, long. $119^{\circ}56'50''$, above Gray diversion about 1.7 miles south of Highway 150.

Altitude.- About 1,600 feet, from topographic map.

Description.- Just below wooden catchment box in creek bed, operated by David Gray Jr.

Diversion.- None reported above station.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
Dec. 16, 1948		No flow	No flow	
Feb. 3, 1949	(5:20 p.m.)	No flow	No flow	
Mar. 22	(10:00 a.m.)	0.0013	0.58	
Apr. 21	(9:15 a.m.)	.0076	3.4	
May 31	(10:50 a.m.)	.00076	.34	
June 23	(8:15 a.m.)	.00074	.33	55
July 21	(8:20 a.m.)	.00062	.28	71
Aug. 18	(8:10 a.m.)	.00061	.27	69
Sept. 29	(9:30 a.m.)	.00058	.26	67
Oct. 27	(8:45 a.m.)	.00033	.15	56
Nov. 21	(11:30 a.m.)	.00035	.16	56
Dec. 22	(9:00 a.m.)	.00033	.15	53
Jan. 19, 1950	(9:15 a.m.)	.00045	.20	53
Feb. 24	(9:00 a.m.)	.00073	.33	54
Mar. 21	(8:40 a.m.)	.00074	.33	54
Apr. 20	(8:45 a.m.)	.00098	.44	58
May 17	(8:15 a.m.)	.00015	.069	49
June 29	(8:45 a.m.)	No flow	No flow	
July 28	(7:45 a.m.)	No flow	No flow	
Aug. 31	(7:45 a.m.)	No flow	No flow	
Oct. 19	(8:15 a.m.)	No flow	No flow	
Nov. 30	(8:30 a.m.)	No flow	No flow	
Dec. 13	(11:00 a.m.)	No flow	No flow	
Jan. 10, 1951	(10:45 a.m.)	No flow	No flow	
Feb. 20	(8:45 a.m.)	No flow	No flow	
Mar. 16	(11:00 a.m.)	No flow	No flow	
Apr. 18	(8:15 a.m.)	No flow	No flow	
May 17	(8:00 a.m.)	No flow	No flow	
June 14	(8:40 a.m.)	No flow	No flow	
July 25	(7:30 a.m.)	No flow	No flow	
Sept. 7	(7:45 a.m.)	No flow	No flow	
25	(7:30 a.m.)	No flow	No flow	
Oct. 26	(8:30 a.m.)	No flow	No flow	
Nov. 8	(9:15 a.m.)	No flow	No flow	
Dec. 7	(10:30 a.m.)	No flow	No flow	
Feb. 21, 1952	(9:15 a.m.)	.10	45	52
May 8	(3:00 p.m.)	.22	98	63
June 18	(8:15 a.m.)	.080	36	

* Lines repaired since last visit.

SPRING - DAVID GRAY, JR.

Location.- Lat. $34^{\circ}32'50''$, long. $119^{\circ}56'50''$.

Altitude.- About 1,580 feet, from topographic map.

Description.- Drilled hole into sandstone exposure. Discharge measured at end of hose into earth reservoir.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.:	: °F
Dec. 16, 1948		: 0.00025	: 0.11	:
Feb. 3, 1949	(5:10 p.m.)	: No flow	: No flow	:
Mar. 22	(9:30 a.m.)	: .00081	: .36	:
Apr. 21	(9:00 a.m.)	: .00084	: .38	:
May 31	(11:05 a.m.)	: .0013	: .60	:
June 23	(9:10 a.m.)	: No flow	: No flow	:
July 21	(8:00 a.m.)	: .00059	: .26	: 51
Aug. 18	(8:30 a.m.)	: .00061	: .27	: 56
Sept. 29	(9:50 a.m.)	: .00040	: .18	: 58
Oct. 27	(9:00 a.m.)	: No flow	: No flow	:
Nov. 21	(11:15 a.m.)	: No flow	: No flow	:
Dec. 22	(9:20 a.m.)	: No flow	: No flow	:
Jan. 19, 1950	(9:00 a.m.)	: No flow	: No flow	:
Feb. 24	(9:20 a.m.)	: .0016	: .70	: 47
Mar. 21	(8:50 a.m.)	: .0035	: 1.6	: 54
Apr. 20	(8:30 a.m.)	: .00073	: .33	: 57
May 17	(8:00 a.m.)	: .00056	: .25	: 55
June 29	(8:20 a.m.)	: .00051	: .23	: 65
July 28	(7:30 a.m.)	: .00038	: .17	: 57
Aug. 31	(7:30 a.m.)	: .00028	: .13	: 60
Oct. 19	(8:00 a.m.)	: .00019	: .083	: 58
Nov. 30	(8:15 a.m.)	: .00043	: .19	: 55
Dec. 13	(10:40 a.m.)	: .00048	: .21	: 55
Jan. 10, 1951	(10:30 a.m.)	: .00031	: .14	: 52
Feb. 20	(8:30 a.m.)	: .00040	: .18	: 51
Mar. 16	(10:45 a.m.)	: .00049	: .22	: 53
Apr. 18	(8:00 a.m.)	: .00043	: .19	: 54
May 17	(7:45 a.m.)	: .00048	: .22	: 59
June 14	(8:25 a.m.)	: .00038	: .17	: 58
July 25	(7:15 a.m.)	11 drops per minute		:
Sept. 7	(7:30 a.m.)	: No flow	: No flow	:
25	(7:15 a.m.)	: No flow	: No flow	:
Oct. 26	(8:20 a.m.)	: No flow	: No flow	:
Nov. 8	(9:00 a.m.)	: No flow	: No flow	:
Dec. 7	(10:15 a.m.)	: No flow	: No flow	:
Feb. 21, 1952	(9:00 a.m.)	: .0021	: .94	: 56
May 8	(8:25 a.m.)	: .0010	: .46	: 55
June 18	(8:00 a.m.)	: .00084	: .38	:

UNNAMED TRIBUTARY OF N. SANTA YNEZ RIVER -
R. G. WELCH RANCH

Location.-Lat. 34°34'00", long. 119°56'00", at Highway 150 crossing about 0.4 mile above junction with the Santa Ynez River.

Altitude.- About 700 feet, from topographic map.

Description.- Measuring site in natural stream channel above highway.

Diversion.- Several diversions above.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.:	: °F
Oct. 21, 1948	(Estimated)	: 0.02	: 11	:
Nov. 5	(8:15 a.m.)	: .023	: 10	:
Nov. 18	(1:03 p.m.)	: .019	: 8.5	:
Nov. 30	(estimated)	: .031	: 14	:
Dec. 15	(10:30 a.m.)	: .029	: 13	:
Jan. 31, 1949	(10:00 a.m.)	: .034	: 15	:
Feb. 3	(12:45 p.m.)	: .030	: 14	:
Mar. 18	(11:30 a.m.)	: .026	: 12	:
Apr. 19	(1:30 p.m.)	: .017	: 7.6	:
May 26	(2:50 p.m.)	: .011	: 4.94	:
June 20	(1:30 p.m.)	: .013	: 5.7	: 61
July 19	(1:00 p.m.)	: .0074	: 3.33	: 66
Aug. 15	(2:10 p.m.)	: .0097	: 4.36	: 62
Sept. 26	(2:35 p.m.)	: .013	: 5.7	: 59
Oct. 24	(2:50 p.m.)	: .011	: 5.0	: 53
Nov. 18	(2:30 p.m.)	: .013	: 5.7	: 55
Dec. 19	(1:50 p.m.)	: .026	: 12	: 52
Jan. 16, 1950	(11:30 a.m.)	: .030	: 13	: 43
Feb. 20	(2:30 p.m.)	: .027	: 12	: 54
Mar. 21	(11:40 a.m.)	: .033	: 15	: 55
Apr. 21	(8:45 a.m.)	: .025	: 11	: 59
May 18	(7:35 a.m.)	: .029	: 13	: 56
June 26	(8:05 a.m.)	: .025	: 11	: 56
July 21	(1:35 p.m.)	: .010	: 4.50	: 65
Aug. 31		: .0065	: 2.90	: 65
Oct. 16	(1:00 p.m.)	: .014	: 6.2	: 57
Nov. 13	(2:15 p.m.)	: .019	: 8.6	:
Dec. 11	(1:00 p.m.)	: .011	: 5.1	: 55
Jan. 8, 1951	(2:00 p.m.)	: .013	: 5.7	: 49
Feb. 5	(2:15 p.m.)	: .013	: 6.0	: 52
Mar. 5	(2:30 p.m.)	: .016	: 7.2	: 52
Apr. 4	(1:30 p.m.)	: .017	: 7.8	: 55
May 15	--	: .015	: 6.9	: 59
June 11	(2:10 p.m.)	: .011	: 4.86	: 62
July 23	(2:00 p.m.)	: .012	: 5.45	: 65
Aug. 22	(12:15 p.m.)	: .013	: 6.0	:
Sept. 17	(12:45 p.m.)	: .0096	: 4.29	: 64
Oct. 10	(3:15 p.m.)	: .013	: 6.0	: 63
Nov. 5	(1:00 p.m.)	: .014	: 6.4	: 58
Dec. 5	(1:15 p.m.)	: .019	: 8.6	: 52

UNNAMED TRIBUTARY OF N. SANTA YNEZ RIVER - (cont'd)
R. G. WELCH RANCH

DATE		DISCHARGE		TEMP	REMARKS
		Second- feet	Gals. per min.	°F	
1952					
Jan. 9	(2:30 p.m.)	.020	9.	45	
Feb. 18	(3:05 p.m.)	.032	14.	52	
Apr. 14	(3:25 p.m.)	.25	111.	56	
May 19	(12:35 p.m.)	.12	55.	68	
June 16	(12:40 p.m.)	.042	19.	80	

SLEEPAGE FROM NORTH PORTAL OF TEGOLATE TUNNEL

Location. - Lat. 34°34'00", long. 129°55'50", at North Portal.

Altitude. - About 670 feet from topograph map.

Description. - Water pumped out of excavation, measured at end of 6-inch pipe at point of wastage.

DATE		DISCHARGE		TEMP.	BUREAU OF RECLAMA- TION STATIONING
		Second-feet	Gals. per min.	° F	
April 4, 1950	(11:15 a.m.)	0.011	4.7	59	Station 8 + 35
April 12	(1:20 p.m.)	.0092	4.	59	8 + 75
April 18	(1:45 p.m.)	.0019	4.4	68	10 + 45
May 4	(noon)	.035	16	59	17 + 37
11	(1:30 p.m.)	.030	14		20 + 20
12	(11:20 a.m.)	.051	23	62	
13	(10:40 p.m.)	.018	7.9		
15	(7:45 a.m.)	.046	21		
15	(1:30 p.m.)	.026	13	65	
16	(2:15 p.m.)	.056	25		21 + 00
20	(1:05 p.m.)	.053	24		21 + 68
26	(0:30 a.m.)	.079	32	65	
a/26	(12 M)	.074	33	65	
31	(8:00 a.m.)	.11	50	66	
31	(10:30 a.m.)	.23	94		24 + 35
June 1	(7:45 a.m.)	.19	86		
10	(8:30 a.m.)	.14	61		
16	(7:05 a.m.)	.14	61	67	
16	(7:40 a.m.)	.11	51		
19	(12:50 p.m.)	.11	50	67	25 + 79
July 10	(11:15 a.m.)	.12	54	69	35 + 60
b/10	(11:10 a.m.)	.13	58		
c/25	(1:20 p.m.)	.079	35		41 + 50
Aug. 3	(10:40 a.m.)	.067	30		
24	(10:30 a.m.)	.062	28		52 + 35
31	(10:20 a.m.)	.057	26	70	54 + 70
Sept. 12	(11:20 a.m.)	.062	28	69	57 + 45
28	(11:30 a.m.)	.12	52	73	61 + 04
Oct. 13	(12:25 p.m.)	.11	51	72	65 + 87
19	(12:45 p.m.)	.095	43		67 + 47
27	(9:40 a.m.)	.060	36		70 + 19
Nov. 2	(8:00 a.m.)	.095	43		71 + 72
9	(10:45 a.m.)	.11	48		73 + 60
27	(11:05 a.m.)	.092	41	70	81 + 00
Dec. 7	(10:30 a.m.)	.089	40	71	82 + 60
13	(1:20 p.m.)	.089	40	71	82 + 60
21	(10:40 a.m.)	.15	68		85 + 00
Jan. 5, 1951	(11:05 a.m.)	.19	86	70	87 + 34
18	(10:00 a.m.)	.19	86		90+ 00

SEWAGE FROM NORTH PORTAL OF ESCOLOTE TUNNEL (CONT'D)

DATE		DISCHARGE		TEMP. : °F	BUREAU OF RECLAMATION STATIONING
		Second-ft.	Gals. per min.		
Jan. 25	(10:30 a.m.)	.17	75	70	90 + 00
Feb. 1	(10:30 a.m.)	.15	67	69	90 + 00
1	(11:30 a.m.)	.33	150		
9	(3:30 p.m.)	.21	92		90 + 00
12	(2:30 p.m.)	.14	63		
15	(10:30 a.m.)	.18	80		90 + 00
23	(1:20 p.m.)	.24	109		
Mar. 2	(9:00 a.m.)	.13	57		90 + 00
15	(9:30 a.m.)	.067	30	70	90 + 00
29	(9:10 a.m.)	.15	63		90 + 00
Apr. 3	(1:00 p.m.)	.38	171	70	90 + 00
11	(10:50 a.m.)	.30	175	70	90 + 21
11	(11:00 a.m.)	.22	100	70	
19	(12:50 p.m.)	.24	107	70	90 + 98
19	(1:05 p.m.)	.24	109	70	
26	(11:35 a.m.)	.22	100	70	
26	(11:45 a.m.)	.22	100	70	91 + 90
May 18	(12:10 p.m.)	.17	75	72	94 + 23
18	(12:15 p.m.)	.22	98		
25	(11:20 a.m.)	.17	75	74	95 + 01
25	(11:25 a.m.)	.17	75		
25	(11:30 a.m.)	.14	61		
June 1	(11:30 a.m.)	.17	75	74	96 + 01
1	(11:35 a.m.)	.12	52		
7	(8:05 a.m.)	.16	74	72	97 + 10
7	(8:20 a.m.)	.15	67		
14	(11:30 a.m.)	.23	101	74	98 + 26
14	(11:45 a.m.)	.22	100		
22	(11:35 a.m.)	.21	95	74	98 + 00
22	(10:50 a.m.)	.19	86		
29	(12:20 p.m.)	.19	84		98 + 97
July 16	(11:00 a.m.)	.15	68	75	101 + 08
25	(11:10 a.m.)	.14	65		
Aug. 16	(8:00 a.m.)	.17	75	74	105 + 62
30	(7:30 a.m.)	.18	80	74	107 + 82
Sept. 7	(11:05 a.m.)	.20	92	74	109 + 14
13	(10:00 a.m.)	.19	84		110 + 43
24	(12:10 p.m.)	.21	93		112 + 25
Oct. 12	(12:15 p.m.)	.21	95		
18	(10:45 a.m.)	.15	69	75	116 + 69
26	(11:40 a.m.)	.14	65	74	118 + 70
Nov. 1	(1:35 p.m.)	.15	69	74	120 + 23
8	(12:20 p.m.)	.090	40		122 + 71
19	(8:50 a.m.)	.25	111		125 + 17
29	(8:50 a.m.)	.27	121		127 + 81
Dec. 7	(1:15 p.m.)	.26	118	74	130 + 22
13	(9:35 a.m.)	.24	109		131 + 50

SEEPAGE FROM NORTH PORTAL OF TECOLOTE TUNNEL (CONT'D)

DATE		DISCHARGE		TEMP.		BUREAU OF RECLAMATION	
		:Second-ft.	:Gals. per min:	: °F :	:	STATIONING	
1952		:	:	:	:		
Jan.	7	{ 2:05 p.m.}: .33	: 149	: 73	:	137 + 42	
Feb.	1	{ 2:25 p.m.}: .74	: 334	:	:	143 + 34	*
May	9	{ 10:00 a.m.}: .91	: 407	: 75	:	149 + 60	**
	25	{ 1:00 p.m.}: .72	: 322	:	:		
June	5	{ 8:20 a.m.}: .77	: 344	: 76	:		
	18	{ 1:05 a.m.}: .83	: 372	:	:		

* Flume drowned out by lake.

** Driving of tunnel from North Portal stopped at sta. 149 + 60. Future observations to be tunnel lining only. Completion of tunnel to be from South Portal.

TEQUEPIS CREEK ABOVE BOY SCOUT CAMP DIVERSION

Location.— Lat. $34^{\circ}32'20''$, long. $119^{\circ}57'30''$, at Mrs. Clark's diversion, about 2.4 miles south of Highway 150.

Altitude.— About 1,900 feet, from topographic map.

Description.— Measuring site above wood diversion box at rock outcrop about 2.9 miles by road and trail above Highway 150.

Diversion.— None reported above station.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
June 24, 1948	(estimated)	0.03 to .04	15 to 20	:
Oct. 29	(9:05 a.m.)	0.039	18	:
Nov. 18	(12:05 p.m.)	.041	18	:
Dec. 15	(9:25 a.m.)	.037	17	:
Jan. 31, 1949	(9:10 a.m.)	.056	25	:
Mar. 18	(9:15 a.m.)	.14	63	:
Apr. 20	(8:40 a.m.)	.083	37	:
May 27	(8:30 a.m.)	.053	23.8	:
June 22	(8:10 p.m.)	.041	18.4	55
July 20	(12:10 p.m.)	.012	5.4	60
Aug. 19	(8:30 p.m.)	.034	15	56
Sept. 28	(8:40 a.m.)	.018	8.1	55
Oct. 26	(9:20 a.m.)	.024	11	53
Nov. 22	(11:20 a.m.)	.040	18	54
Dec. 20	(1:30 p.m.)	.097	44	51
Jan. 18, 1950	(2:00 p.m.)	.15	68	50
Feb. 21	(1:30 p.m.)	.13	57	51
Mar. 22	(2:00 p.m.)	.063	28	53
Apr. 18	(1:00 p.m.)	.044	20	55
May 15	(12:30 p.m.)	.053	24	60
June 28	(1:15 p.m.)	.025	11	60
July 27	(7:25 a.m.)	.029	13	55
Aug. 28	(12:50 p.m.)	.016	7.2	60
Oct. 18	(8:20 a.m.)	.022	9.9	55
Nov. 15	(12:05 p.m.)	.047	21	55
Dec. 13	(7:55 a.m.)	.034	15	54
Jan. 11, 1951	(9:05 a.m.)	.039	18	52
Feb. 8	(10:05 a.m.)	.039	18	53
Mar. 22	(7:55 a.m.)	.040	18	50
Apr. 17	(7:50 a.m.)	.034	15	52
May 16	(11:40 a.m.)	.032	14.4	:
June 12	(11:25 a.m.)	.018	8.1	58
July 23	(12:10 p.m.)	.005	2.24	62
Aug. 20	(11:30 a.m.)	.006	2.69	59
Sept. 19	(12:10 p.m.)	.0054	2.42	61
Oct. 11	(8:00 a.m.)	.0080	3.59	60
Nov. 6	(8:15 a.m.)	.015	6.7	53
Dec. 7	(8:20 a.m.)	.13	58	52
Feb. 20, 1952	(8:35 a.m.)	1.16	518	51
Apr. 16	(8:40 a.m.)	1.55	696	50

DATE		DISCHARGE		TEMP.
	1952	: Second-feet	: Gals. per min.	: °F
May 21	(7:25 a.m.)	: 0.90	: 404	: 55
June 19	(7:20 a.m.)	: .61	: 273	:

SPRING - F. F. LEONARD

Location.- Lat. 34°33'00", long. 119°57'40".

Altitude.- About 1,530 feet, from topographic map.

Description.- Flank-curbed pool in landslide on shale. Discharge measured as inflow to settling box.

DATE		DISCHARGE		TEMP.
		Second- feet	Gals. per min.	°F
June 23, 1948		0.0047	2.1	
Feb. 3, 1949	(10:05 a.m.)	.0036	1.6	
Mar. 18	(10:20 a.m.)	.0057	2.6	
Apr. 20	(10:00 a.m.)	.0053	2.4	
May 27	(9:45 a.m.)	.0036	1.63	
June 22		.0028	1.28	61
July 20	(1:00 p.m.)	.0020	.88	62
Aug. 19	(9:45 a.m.)	.0019	.83	61
Sept. 28	(10:10 a.m.)	.0017	.75	58
Oct. 26	(10:30 a.m.)	.0014	.62	58
Nov. 22	(12:45 p.m.)	.0016	.71	56
Dec. 20	(2:30 p.m.)	.0019	.83	53
Jan. 13, 1950	(2:45 p.m.)	.0024	1.07	56
Feb. 21	(2:15 p.m.)	.0030	1.4	56
Mar. 20	(1:10 p.m.)	.0026	1.2	57
Apr. 18		.0021	.94	60
May 5	(1:20 p.m.)	.0019	.83	60
June 28	(11:00 a.m.)	.0011	.50	69
July 25	(12:30 p.m.)	.00068	.31	72
Aug. 28	(2:00 p.m.)	.00032	.14	82
Oct. 18	(9:30 a.m.)	.00033	.15	60
Nov. 15		.00059	.27	54
Dec. 13	(9:00 a.m.)	.00067	.30	55
Jan. 11, 1951	(10:00 a.m.)	.00070	.31	52
Feb. 8	(8:00 a.m.)	.00064	.29	55
Mar. 22	(9:15 a.m.)	.00064	.29	55
Apr. 17	(8:30 a.m.)	.00053	.24	58
May 16	(10:05 a.m.)	.00033	.15	65
June 12	(12:15 p.m.)	No flow	No flow	
July 23	(11:00 a.m.)	No flow	No flow	
Aug. 20	(11:45 a.m.)	No flow	No flow	
Sept. 20	(12:30 p.m.)	No flow	No flow	
Oct. 11	(9:00 a.m.)	No flow	No flow	
Nov. 6	(9:15 a.m.)	No flow	No flow	
Dec. 7	(9:15 a.m.)	No flow	No flow	
Feb. 20, 1952	(9:30 a.m.)	.12	53	57
Apr. 16	(9:15 a.m.)	.11	52	54
May 21	(8:15 a.m.)	.053	24	57
June 19	(8:30 a.m.)	.042	19	

SPRING - H. NOEL, U. S. FOREST SERVICE

Location.- Lat. 34°33'10", long. 119°57'40".

Altitude.- About 1,550 feet, from topographic map.

Description.- Concreted seep in alluvium. Discharge measured at end of pipe line to storage reservoir.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
June 23, 1943		0.0107	4.8	
Feb. 3, 1949	(10:40 a.m.)	.0082	3.7	
Mar. 13	(10:35 a.m.)	.0085	3.8	
Apr. 20	(10:10 a.m.)	.0084	3.8	
May 27	(10:00 a.m.)	.0088	3.93	
June 22		.0085	3.81	65
July 20	(1:15 p.m.)	.0089	4.00	66
Aug. 19	(10:10 a.m.)	.0082	3.7	64
Sept. 28	(10:30 a.m.)	.0075	3.4	62
Oct. 26	(10:50 a.m.)	.0061	2.7	64
Nov. 22	(1:00 p.m.)	.0076	3.4	60
Dec. 20	(2:45 p.m.)	.0082	3.7	
Jan. 18, 1950	(3:00 p.m.)	.0082	3.7	57
Feb. 21	(2:30 p.m.)	.0079	3.6	58
Mar. 20	(1:00 p.m.)	.0098	4.4	61
Apr. 18		.0067	3.0	64
May 15	(1:35 p.m.)	.0098	4.4	63
June 28	(11:15 a.m.)	.0080	3.6	67
July 25	(12:45 p.m.)	.0080	3.6	68
Aug. 28	(2:20 p.m.)	.0076	3.4	69
Oct. 18	(9:45 a.m.)	.0073	3.3	62
Nov. 15		.0068	3.0	
Dec. 13	(9:20 a.m.)	.0070	3.2	57
Jan. 11, 1951	(10:15 a.m.)	.0072	3.2	54
Feb. 8	(8:15 a.m.)	.0068	3.0	57
Mar. 22	(9:30 a.m.)	.0085	3.8	58
Apr. 17	(8:45 a.m.)	.0091	4.1	60
May 16	(10:20 a.m.)	.0067	3.00	60
June 12	(12:30 p.m.)	.0062	2.77	66
July 23	(11:15 a.m.)	.0058	2.61	65
Aug. 20	(12 M)	.0056	2.54	70
Sept. 20	(1:00 p.m.)	.0056	2.50	77
Oct. 11	(9:15 a.m.)	.0056	2.54	62
Nov. 6	(9:30 a.m.)	.0054	2.44	61
Dec. 7	(9:30 a.m.)	.0062	2.76	52
Feb. 20, 1952	(9:45 a.m.)	.0076	3.40	55
Apr. 16	(9:25 a.m.)	.0089	4.00	
May 21	(8:30 a.m.)	.0091	4.09	59
June 19	(8:45 a.m.)	.0089	4.00	

SPRING - MRS. W. A. CLARK, U. S. FOREST SERVICE

Location.- Lat. 34°33'10", long. 119°57'30".

Altitude.- About 1,250 feet, from topographic map.

Description.- Seeps into ditch on hillside. Discharge measured at end of 6-inch tile pipe into settling box.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.	: °F
Feb. 3, 1949	(11:20 a.m.)	: 0.0014	: 0.63	: 56
Mar. 18	(10:45 a.m.)	: .0033	: 1.5	:
Apr. 20	(10:30 a.m.)	: .0060	: 2.7	:
May 27	(10:15 a.m.)	: .0033	: 1.48	:
June 22		: .0020	: .92	: 59
July 20	(1:30 p.m.)	: .0011	: .50	: 65
Aug. 19	(10:30 a.m.)	: .00084	: .38	: 63
Sept. 28	(10:50 a.m.)	: .00074	: .33	: 60
Oct. 26	(11:10 a.m.)	: .00071	: .32	: 57
Nov. 22	(1:30 p.m.)	: .00073	: .33	: 58
Dec. 20	(3:00 p.m.)	: .00096	: .43	: 53
Jan. 18, 1950	(3:15 p.m.)	: .0019	: .83	: 57
Feb. 21	(2:45 p.m.)	: .0056	: 2.5	: 58
Mar. 20	(1:20 p.m.)	: .0048	: 2.1	: 58
Apr. 18		: .0036	: 1.6	: 60
May 15	(1:50 p.m.)	: .0021	: .94	: 61
June 28	(11:45 a.m.)	: .0011	: .50	: 67
July 25	(1:00 p.m.)	: .00098	: .44	: 67
Aug. 28	(2:40 p.m.)	: .00065	: .29	: 62
Oct. 18	(10:00 a.m.)	: .0010	: .47	: 58
Nov. 15		: .0013	: .58	:
Dec. 13	(9:40 a.m.)	: .0014	: .62	: 56
Jan. 11, 1951	(10:30 a.m.)	: .0019	: .83	: 56
Feb. 8	(8:45 a.m.)	: .0020	: .88	: 56
Mar. 22	(9:45 a.m.)	: .0016	: .71	: 57
Apr. 17	(9:15 a.m.)	: .0015	: .65	: 58
May 16	(10:35 a.m.)	: .0011	: .50	: 58
June 12	(12:45 p.m.)	: .00081	: .37	: 69
July 23	(11:30 a.m.)	: .00040	: .18	: 62
Aug. 20	(12:15 p.m.)	: .00062	: .28	: 65
Sept. 20	(12:45 p.m.)	: .00025	: .11	:
Oct. 11	(9:30 a.m.)	: .00033	: .15	: 58
Nov. 6	(9:45 a.m.)	: .00034	: .15	: 56
Dec. 7	(9:45 a.m.)	: .00039	: .18	: 42
Feb. 20, 1952	(10:10 a.m.)	: .057	: 26	: 57
Apr. 16	(9:35 a.m.)	: .057	: 26	: 54
May 21	(8:50 a.m.)	: .029	: 13	:
June 18	(9:15 a.m.)	: .017	: 7.8	:

TEQUILA CANYON CREEK AT HIGHWAY 150

Location.- Lat. 34°34'20", long. 119°57'00", at road crossing of Highway 150

Altitude.- About 750 feet, from topographic map.

Description.- Measuring site in stream channel above bridge.

Diversions.- Several above.

DATE		DISCHARGE	
		Second-feet	Gals. per min.
Mar. 18, 1949	(11:20 a.m.)	No flow	No flow
Apr. 19	(1:00 p.m.)	No flow	No flow
May 26	(2:30 p.m.)	No flow	No flow
June 20	(1:00 p.m.)	No flow	No flow
July 18	(2:20 p.m.)	No flow	No flow
Aug. 15	(1:40 p.m.)	No flow	No flow
Sept. 26	(2:10 p.m.)	No flow	No flow
Oct. 24	(2:20 p.m.)	No flow	No flow
Nov. 17	(12:30 p.m.)	No flow	No flow
Dec. 19	(2:00 p.m.)	No flow	No flow
Jan. 16, 1950	(12:15 p.m.)	No flow	No flow
Feb. 20	(2:00 p.m.)	No flow	No flow
Mar. 22	(3:30 p.m.)	No flow	No flow
Apr. 19	(12:30 p.m.)	No flow	No flow
May 18	(7:20 a.m.)	No flow	No flow
June 26	(8:30 a.m.)	No flow	No flow
July 21	(1:10 p.m.)	No flow	No flow
Aug. 31	(11:30 a.m.)	No flow	No flow
Oct. 16	(12:25 p.m.)	No flow	No flow
Nov. 13	(1:45 p.m.)	No flow	No flow *
Dec. 11	(12:30 p.m.)	No flow	No flow
Jan. 8, 1951	(1:30 p.m.)	No flow	No flow
Feb. 5	(1:45 p.m.)	No flow	No flow
Mar. 5	(2:00 p.m.)	No flow	No flow
Apr. 4	(1:10 p.m.)	No flow	No flow
May 15		No flow	No flow
June 11	(2:25 p.m.)	No flow	No flow
July 23	(1:00 p.m.)	No flow	No flow
Aug. 22	(11:45 a.m.)	No flow	No flow
Sept. 17	(12:20 p.m.)	No flow	No flow
Oct. 10	(2:45 p.m.)	No flow	No flow
Nov. 5	(12:30 p.m.)	No flow	No flow
Dec. 5	(12:50 p.m.)	No flow	No flow
Jan. 9, 1952	(2:00 p.m.)	No flow	No flow
Feb. 18	(2:35 p.m.)	1.22	547
Apr. 14	(3:00 p.m.)	2.76	1,240 : 57
May 19	(12M)	.93	417 : 66
June 16	(11:55 a.m.)	.24	108 : 64

* Point of observation moved to new Highway 150.

SPRING - J. V. CRAWFORD

Location.- Lat. 34°33'50", long. 119°58'20".

Altitude.- About 1,070 feet, from topographic map.

Description.- Pool in sandstone bed of side canyon.

DATE	DISCHARGE		TEMP. °F
	Second-feet	Gals. per min.	
Oct. 28, 1948 (estimated)	0.001	0.5	
Jan. 26, 1949 (11:45 a.m.)	.0010	.47	
Mar. 21 (2:00 p.m.)	.0017	.75	
Apr. 21 (1:35 p.m.)	.0012	.52	
June 1 (11:30 a.m.)	.00084	.38	
June 23 (1:40 p.m.)	.00074	.33	63
July 21 (1:15 p.m.)	.00071	.32	60
Aug. 18 (12:30 p.m.)	.00071	.32	61
Sept. 28 (12:35 p.m.)	.00074	.33	58
Oct. 26 (1:00 p.m.)	.00061	.27	55
Nov. 21 (2:45 p.m.)	.00078	.35	55
Dec. 22 (1:15 p.m.)	.0011	.50	48
Jan. 17 (1:45 p.m.)	.00051	.23	52
Feb. 24 (1:45 p.m.)	.00029	.13	55
Mar. 21 (1:30 p.m.)	.0011	.50	55
Apr. 20 (1:45 p.m.)	.0010	.45	58
May 17 (1:30 p.m.)	.00093	.42	55
June 29 (1:45 p.m.)	.00076	.34	63
July 28 (1:35 p.m.)	.0016	.71	60
Aug. 30 (12:10 p.m.)	.00056	.25	59
Oct. 17 (12:20 p.m.)	.00056	.25	57
Nov. 16 (9:30 a.m.)	.00071	.32	58
Dec. 12 (1:15 p.m.)	.00072	.33	55
Jan. 11, 1951 (12:11 p.m.)	.00090	.41	52
Feb. 19 (11:45 a.m.)	.00073	.33	52
Mar. 22 (11:00 a.m.)	.00095	.43	53
Apr. 17 (11:00 a.m.)	.00074	.33	56
May 16 (8:30 a.m.)	.00071	.32	55
June 11 (1:15 p.m.)	.00059	.26	60
July 24 (1:15 p.m.)	.00046	.21	60
Aug. 22 (10:10 a.m.)	.00053	.24	
Sept. 24 (11:20 a.m.)	.00056	.25	59
Oct. 11 (11:00 a.m.)	.00049	.22	59
Nov. 7 (1:45 p.m.)	.00049	.22	57
Dec. 5 (2:10 p.m.)	.0010	.45	57
Feb. 19, 1952 (1:30 p.m.)	.0056	2.50	48
Apr. 15 (2:15 p.m.)	.012	5.5	52
May 20 (12:50 p.m.)	.0028	1.25	59
June 17 (1:10 p.m.)	.0020	.88	57

SPRING, CROWN ELEVEN RANCH

Location.- Lat. 34°34'00", long. 119°58'10".

Altitude.- About 990 feet, from topographic map.

Description.- Two connected curbed seeps on alluvial slope. Discharge at outlet of one-inch pipe leading to watering trough.

DATE	DISCHARGE		TEMP.
	: Second-feet :	: Gals. per min. :	
Oct. 21, 1948	: 0.0023 :	: 1.0 :	
Jan. 26, 1949 (11:20 a.m.)	: .0019 :	: .86 :	
Mar. 21 (1:20 p.m.)	: .0022 :	: 1.0 :	
Apr. 21 (1:00 p.m.)	: .0020 :	: .91 :	
June 1 (11:00 a.m.)	: .0039 :	: 1.76 :	
June 23 (1:00 p.m.)	: .0039 :	: 1.75 :	66
July 21 (12:45 p.m.)	: .0017 :	: .75 :	62
Aug. 18 (1:00 p.m.)	: .0032 :	: 1.45 :	68
Sept. 28 (12:00 noon)	: .0029 :	: 1.30 :	66
Oct. 26 (12:15 p.m.)	: .0022 :	: 1.00 :	65
Nov. 21 (2:10 p.m.)	: .00096 :	: .43 :	60
Dec. 22 (12:30 p.m.)	: .0021 :	: .94 :	62
Jan. 17, 1950 (1:00 p.m.)	: .0021 :	: .94 :	65
Feb. 24 (1:00 p.m.)	: .0042 :	: 1.9 :	65
Mar. 21 (1:00 p.m.)	: .0036 :	: 1.6 :	65
Apr. 20 (1:00 p.m.)	: .0038 :	: 1.7 :	67
May 17 (12:45 p.m.)	: .0039 :	: 1.3 :	65
June 29 (1:00 p.m.)	: .0032 :	: 1.4 :	66
July 28 (12:45 p.m.)	: .0028 :	: 1.2 :	
Aug. 30 (11:30 a.m.)	: .0012 :	: .54 :	67
Oct. 17 (11:30 a.m.)	: .0013 :	: .60 :	65
Nov. 16 (9:45 a.m.)	: .0022 :	: 1.00 :	62
Dec. 12 (12:30 p.m.)	: .0037 :	: 1.66 :	64
Jan. 11, 1951 (11:15 a.m.)	: .00090 :	: .41 :	64
Feb. 19 (11:00 a.m.)	: .00096 :	: .44 :	64
Mar. 22 (11:20 a.m.)	No flow. Pump running		
Apr. 17 (10:20 a.m.)	: .0013 :	: .60 :	64
May 16 (7:45 a.m.)	: .00098 :	: .44 :	64
June 11 (12:30 p.m.)	: .0015 :	: .68 :	65
July 24 (12:40 p.m.)	: .0012 :	: .52 :	66
Aug. 22 (10:15 a.m.)	: .0010 :	: .45 :	66
Sept. 24 (10:45 a.m.)	: .00070 :	: .31 :	66
Oct. 11 (10:15 a.m.)	: .00042 :	: .19 :	66
Nov. 7 (1:00 p.m.)	: .00073 :	: .33 :	64
Dec. 5 (1:00 p.m.)	No flow. Pump running		
Feb. 19, 1952 (12:50 p.m.)	: .0040 :	: 1.78 :	65
Apr. 15 (1:35 p.m.)	: .0066 :	: 2.93 :	63
May 20 (12:10 p.m.)	: .0059 :	: 2.66 :	67
June 17 (12:30 p.m.)	: .0048 :	: 2.14 :	67

SPRING - CROWN ELEVEN RANCH

Location.- Lat. 34°33'50", long. 119°58'10".

Altitude.- About 970 feet, from topographic map.

Description.- Seepage from alluvial fill collected in ditch on east bank of creek. Discharge measured at end of old 4-inch pipe line.

DATE		DISCHARGE		TEMP.
		: Second-feet :	: Gals. per min. :	: °F :
Oct. 28, 1948		: 0.0016 :	: 0.73 :	
Jan. 26, 1949	(12:10 p.m.)	: .0014 :	: .62 :	
Mar. 21	(1:00 p.m.)	: .0032 :	: 1.4 :	
Apr. 21	(1:15 p.m.)	: .0026 :	: 1.2 :	
June 1	(11:10 a.m.)	: .0028 :	: 1.25 :	
June 23	(1:15 p.m.)	: .0024 :	: 1.07 :	65
July 21	(12:30 p.m.)	: .0030 :	: 1.36 :	67
Aug. 18	(12:15 p.m.)	: .0015 :	: .68 :	67
Sept. 23	(12:15 p.m.)	: .0014 :	: .65 :	66
Oct. 26	(12:30 p.m.)	: .0014 :	: .62 :	65
Nov. 21	(2:20 p.m.)	: .0013 :	: .58 :	68
Dec. 22	(12:45 p.m.)	: .0014 :	: .62 :	62
Jan. 17, 1950	(1:15 p.m.)	: .0016 :	: .71 :	65
Feb. 24	(1:15 p.m.)	: .0024 :	: 1.1 :	65
Mar. 21	(1:15 p.m.)	: .0028 :	: 1.2 :	67
Apr. 20	(1:15 p.m.)	: .0026 :	: 1.2 :	67
May 17	(1:00 p.m.)	: .0028 :	: 1.2 :	68
June 29	(1:15 p.m.)	: .00053 :	: .24 :	65
July 28	(1:00 p.m.)	: .0021 :	: .94 :	67
Aug. 30	(11:45 p.m.)	: .0015 :	: .65 :	67
Oct. 31	(11:50 a.m.)	: .0014 :	: .62 :	65
Nov. 16	(9:10 a.m.)	: .0013 :	: .60 :	63
Dec. 12	(12:45 p.m.)	: .0013 :	: .60 :	64
Jan. 11, 1951	(11:30 a.m.)	: .0012 :	: .52 :	64
Feb. 19	(11:15 a.m.)	: .00098 :	: .44 :	62
Mar. 22	(10:30 a.m.)	: .00086 :	: .38 :	62
Apr. 17	(10:35 a.m.)	: .00081 :	: .36 :	64
May 16	(8:00 a.m.)	: .00053 :	: .24 :	61
June 11	(12:45 p.m.)	: .00023 :	: .10 :	64
July 24	(12:55 p.m.)	: .00016 :	: .07 :	64
Aug. 22	(10:45 a.m.)	No flow. Line plugged.		
Sept. 24	(11:00 a.m.)	: .00074 :	: .33 :	64 *
Oct. 11	(10:30 a.m.)	: .00068 :	: .31 :	
Nov. 7	(1:15 p.m.)	: .00067 :	: .30 :	64
Dec. 5	(1:50 p.m.)	: .00089 :	: .40 :	62
Feb. 19, 1952	(1:05 p.m.)	: .0037 :	: 1.64 :	67
Apr. 15	(1:50 p.m.)	: .0084 :	: 3.75 :	65
May 20	(12:25 p.m.)	: .0067 :	: 3.00 :	69
June 17	(12:45 p.m.)	: .0067 :	: 3.00 :	68

* Brush cleaned from around spring and line opened since last visit.

UNNAMED CREEK, TRIBUTARY TO SANTA YNEZ RIVER AT HARVEY RANCH

Location.- Lat. $34^{\circ}34'00''$, long. $119^{\circ}58'10''$, at 6-foot road culvert, about 1.0 mile south of Highway 150.

Altitude.- About 950 feet, from topographic map.

Description.- Measuring site in natural channel.

Diversions.- Several diversions above from springs.

DATE		DISCHARGE		TEMP.
		: Second-foot	: Gals. per min.:	: °F
Oct. 22, 1948		: 0.0053	: 2.6	:
Jan. 26, 1949	(12:40 p.m.)	: .016	: 7.2	:
Mar. 21	(3:00 p.m.)	: .030	: 13	:
Apr. 21	(2:00 p.m.)	: .030	: 13	:
June 1	(11:50 a.m.)	: .024	: 10.9	:
June 23	(2:10 p.m.)	: .017	: 7.5	: 65
July 21	(1:45 p.m.)	: .012	: 5.3	: 61
Aug. 18	(1:30 p.m.)	: .0084	: 3.8	: 67
Sept. 28	(1:00 p.m.)	: .0074	: 3.3	: 56
Oct. 26	(1:30 p.m.)	: .0065	: 2.9	: 52
Nov. 21	(3:00 p.m.)	: .0079	: 3.5	: 53
Dec. 22	(1:45 p.m.)	: .015	: 6.9	: 40
Jan. 17, 1950	(2:15 p.m.)	: .022	: 10	: 53
Feb. 24	(2:15 p.m.)	: .027	: 12	: 55
Mar. 21	(2:00 p.m.)	: .031	: 14	: 57
Apr. 20	(2:15 p.m.)	: .021	: 14	: 62
May 17	(2:00 p.m.)	: .033	: 15	: 57
June 29	(2:15 p.m.)	: .013	: 6.0	: 63
July 28	(2:00 p.m.)	: .011	: 5.1	: 60
Aug. 30	(12:45 p.m.)	: .0052	: 2.3	: 60
Oct. 17	(1:00 p.m.)	: .0048	: 2.2	: 56
Nov. 16	(10:15 a.m.)	: .0089	: 4.0	: 50
Dec. 12	(1:45 p.m.)	: .0098	: 4.4	: 53
Jan. 11, 1951	(12:30 P.m.)	: .011	: 5.1	: 48
Feb. 19	(12:15 p.m.)	: .010	: 4.5	: 46
Mar. 21	(11:50 a.m.)	: .010	: 4.5	: 52
Apr. 17	(11:50 a.m.)	: .0080	: 3.6	: 54
May 16	(9:00 a.m.)	: .0065	: 2.90	: 52
June 11	(1:40 p.m.)	: .0024	: 1.12	: 58
July 24	(1:35 p.m.)	: .0023	: 1.01	: 60
Aug. 22	(11:15 a.m.)	: .0021	: .94	: 59
Sept. 24	(11:50 a.m.)	: .0027	: 1.22	: 57
Oct. 11	(11:30 a.m.)	: .0022	: 1.00	: 57
Nov. 7	(2:15 p.m.)	: .0018	: .79	: 53
Dec. 5	(2:30 p.m.)	: .0082	: 3.67	: 50
Feb. 19, 1952	(2:00 p.m.)	: .053	: 24	: 51
Apr. 15	(2:40 p.m.)	: .24	: 106	: 55
May 20	(1:25 p.m.)	: .14	: 62	: 63
June 17	(1:35 p.m.)	: .095	: 43	:

HILTON CANYON CREEK AT HIGHWAY 150

Location.- Lat. 34°35'10", long. 119°59'10", at Highway 150.

Altitude.- About 650 feet, from topographic map.

Description.- Measuring site in natural stream channel above highway crossing.

Diversion.- Several diversions above station.

DATE		DISCHARGE	
		: Second-feet	: Gals. per min.
Mar. 8, 1949	(1:30 p.m.)	: No flow	: No flow
Mar. 21	(12-noon)	: No flow	: No flow
Apr. 19	(12-noon)	: No flow	: No flow
May 26	(2:00 p.m.)	: No flow	: No flow
June 20	(11:50 a.m.)	: No flow	: No flow
July 18	(2:50 p.m.)	: No flow	: No flow
Aug. 15	(1:00 p.m.)	: No flow	: No flow
Sept. 26	(1:30 p.m.)	: No flow	: No flow
Oct. 24	(1:45 p.m.)	: No flow	: No flow
Nov. 17	(2:45 p.m.)	: No flow	: No flow
Dec. 19	(1:30 p.m.)	: No flow	: No flow
Jan. 16, 1950	(1:10 p.m.)	: No flow	: No flow
Feb. 20	(1:30 p.m.)	: No flow	: No flow
Mar. 20		: No flow	: No flow
Apr. 19	(1:00 p.m.)	: No flow	: No flow
May 16	(12:45 p.m.)	: No flow	: No flow
June 26	(9:10 a.m.)	: No flow	: No flow
July 21	(12:30 p.m.)	: No flow	: No flow
Aug. 28	(10:50 a.m.)	: No flow	: No flow
Oct. 16	(11:40 a.m.)	: No flow	: No flow
Nov. 13	(1:15 p.m.)	: No flow	: No flow
Dec. 11	(11:45 a.m.)	: No flow	: No flow
Jan. 8, 1951	(12:45 p.m.)	: No flow	: No flow
Feb. 5	(1:00 p.m.)	: No flow	: No flow
Mar. 5	(1:00 p.m.)	: No flow	: No flow
Apr. 4	(12:15 p.m.)	: No flow	: No flow

HILTON CANYON CREEK AT HIGHWAY 150 (Cont'd)

DATE	DISCHARGE	TEMP.	REMARKS
	Second- feet	Gals. per min.	'F
1951			
May 15	No flow	No flow	
June 11 (3:00 p.m.)	Do	Do	
July 23 (3:00 p.m.)	Do	Do	Point of observation moved upstream to new highway.
Aug. 22 (12:45 p.m.)	Do	Do	
Sept. 17 (10:30 a.m.)	Do	Do	
Oct. 10 (2:00 p.m.)	Do	Do	
Nov. 5 (11:45 a.m.)	Do	Do	
Dec. 5 (12:05 p.m.)	Do	Do	
Jan. 9,			
1952	Do	Do	
Feb. 18 (1:05 p.m.)	.42	188	
29	No flow	No flow	USBR
Mar. 13 (9:45 a.m.)	1.59	714	USBR
16	25		Estimated by USBR
17	17.4	7800	Measured by USBR
Apr. 3	2.48	1110	Do
14	1.29	580	
May 19	.36	160	
June 16 (10:50 a.m.)	.16	71	

SPRING - J. V. CRAWFORD

Location.- Lat. 34°34'40", long. 119°59'20".

Altitude.- About 980 feet, from topographic map.

Description.- Wood-curbed seep on hillside. Discharge measured at end of 2-inch line to stock trough.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	
Oct. 28, 1948		0.000067	0.03	
Jan. 26, 1949	(2:00 p.m.)	.00013	.058	
Mar. 8	(12:40 p.m.)	.00013	.057	
Apr. 19	(11:40 a.m.)	.00013	.057	
May 26	(1:40 p.m.)	.00012	.052	
June 21	(12:45 p.m.)	.000076	.034	106
July 19	(2:05 p.m.)	No flow	No flow	91
Aug. 15	(2:35 p.m.)	One drop in 8 seconds		
Sept. 26	(1:00 p.m.)	No flow	No flow	
Oct. 24	(1:20 p.m.)	No flow	No flow	
Nov. 17	(3:10 p.m.)	No flow	No flow	
Dec. 19	(1:00 p.m.)	1.9 drops per second		48
Jan. 16, 1950	(1:50 p.m.)	.000015	.0068	49
Feb. 20	(1:00 p.m.)	.000033	.015	55
Mar. 20	(10:20 a.m.)	2 drops per second		57
Apr. 20	(2:45 p.m.)	.15 drops per second		
May 16	(1:30 p.m.)	5 drops in 10 seconds		
June 26	(10:00 a.m.)	No flow	No flow	
July 21	(11:55 a.m.)	No flow	No flow	
Aug. 28	(9:40 a.m.)	10 drops in 7.0 seconds		
Oct. 16	(11:10 a.m.)	No flow	No flow	
Nov. 13	(12:30 p.m.)	No flow	No flow	
Dec. 11	(11:15 a.m.)	No flow	No flow	
Jan. 8, 1951	(11:30 a.m.)	No flow	No flow	
Feb. 5	(12:30 p.m.)	No flow	No flow	
Mar. 5	(12:30 p.m.)	No flow	No flow	
Apr. 4	(11:30 a.m.)	No flow	No flow	
May 15	(10:30 a.m.)	No flow	No flow	
June 12	(10:45 a.m.)	No flow	No flow	
July 24	(10:30 a.m.)	No flow	No flow	
Aug. 20	(9:30 a.m.)	No flow	No flow	
Sept. 17	(10:00 a.m.)	No flow	No flow	
Oct. 10	(1:30 p.m.)	No flow	No flow	
Nov. 5	(11:00 a.m.)	No flow	No flow	
Dec. 5	(11:30 a.m.)	No flow	No flow	
Jan. 9, 1952	(12:30 p.m.)	No flow	Stock tank 1/3 full	
Feb. 18	(1:00 p.m.)	No flow	No flow	
Apr. 14	(1:30 p.m.)	No flow	Stock tank full.	
May 19	(10:30 a.m.)	No flow.	Stock tank dry.	
June 16	(10:10 a.m.)	No flow.	do	

LON'S CREEK AT G. WALSKA FISH POND

Location.- Lat. 34°32'23", Long. 120°00'30", at G. Walska Fish pond about 0.8 mile northeast of El Capitan Lodge.

Altitude.-About 2,200 feet, from topographic map.

Description.- The measuring site is at overflow pipe from fish pond in natural stream channel reached by about 2 miles of private mountain road from El Capitan Lodge.

Diversion.- No known diversions above.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.:	: °F
Jan. 27, 1949	(11:50 a.m.)	: 0.057	: 26	: 39
Mar. 28	(12:45 p.m.)	: .098	: 44	:
May 25	(9:45 a.m.)	: .055	: 24.6	:
June 22	(9:25 a.m.)	: .043	: 19.1	: 59
July 20	(9:10 a.m.)	: .034	: 15.3	: 60
Sept. 14	(9:20 a.m.)	: .030	: 13.3	:
Nov. 30	(10:40 a.m.)	: .039	: 17.6	: 50
Dec. 28	(9:35 a.m.)	: .057	: 26	: 45
Jan. 24, 1950	(8:40 a.m.)	: .081	: 36	: 48
Feb. 16	(noon)	: .12	: 55	:
Apr. 21	(10:40 a.m.)	: .059	: 26	: 59
June 8	(11:35 a.m.)	: .050	: 23	:
July 20	(11:30 a.m.)	: .035	: 15.8	: 62
Aug. 24	(9:10 a.m.)	: .035	: 15.7	: 62
Nov. 2	(11:10 a.m.)	: .040	: 17.9	: 53
Nov. 29	(11:40 a.m.)	: .046	: 21	: 50
Dec. 19	(8:55 a.m.)	: .045	: 20	: 51
Feb. 1, 1951	(10:30 a.m.)	: .050	: 22	: 43
Feb. 28	(11:10 a.m.)	: .069	: 31	:
Mar. 21	(8:35 a.m.)	: .053	: 24	:
Apr. 24	(8:40 a.m.)	: .043	: 19	:
June 19	(8:30 a.m.)	: .033	: 15	: 59
July 25	(8:25 a.m.)	: .023	: 10	: 61
Aug. 22	(8:35 a.m.)	: .019	: 8.3	: 61
Sept. 24	(8:55 a.m.)	: .021	: 9.6	: 62
Oct. 22	(8:30 a.m.)	: .021	: 9.4	: 50
Nov. 8	(10:40 a.m.)	: .030	: 13	: 51
Dec. 7	(11:25 a.m.)	: .047	: 21	: 43
Jan. 8, 1952	(11:40 a.m.)	: .10	: 46	: 44
Mar. 13	(12:30 p.m.)	: .44	: 200	: 50 *
Apr. 10	(12:45 p.m.)	: .086	: 38	: 53
May 21	(8:40 a.m.)	: .29	: 130	: 54
June 13	(9:10 a.m.)	: .23	: 104	: 55

* Pond filled with debris.

STATION 143a

SPRING, J. V. CRAWFORD

Location.--Lat $34^{\circ}32'29''$, long. $120^{\circ}00'05''$.

Altitude.--About 1,650 ft from topographic map.

Description.--Undeveloped spring. Seep on side of hill. Tentative for development by J.V. Crawford ranch.

DATE		DISCHARGE		TEMP	REMARKS
		Second- feet	Gals. per min	"F	
1951					
Feb. 8	(3:00 p.m.)	.005	2.24	59	First measurement.
Mar. 9	(9:30 a.m.)	.0021	.94	50	
Apr. 5	(10:00 a.m.)	.0022	1.00	54	
May 28	(9:30 a.m.)	.0018	.81	56	
June 13	(8:45 a.m.)	.0019	.83	55	
July 24	(9:15 a.m.)	.0013	.60	55	
Sept. 6	(9:50 a.m.)	.0012	.54	53	
24	(9:15 a.m.)	.00069	.31	55	
Oct. 22	(10:20 a.m.)	.00047	.21	50	
Nov. 7	(9:45 a.m.)	.0014	.64	53	
Dec. 6	(10:00 a.m.)	.0022	1.00	49	
1952					
Feb. 19	(10:15 a.m.)	.0030	1.36	50	
Apr. 15	(10:30 a.m.)	.0034	1.54	62	
May 20	(9:30 a.m.)	.0024	1.07		

SPRING - MADAME GAMMA WALSKA

Location.- Lat. $34^{\circ}32'10''$, long. $120^{\circ}00'50''$.

Altitude.- About 2,650 feet, from topographic map.

Description.- Seeps on side of canyon impounded by small dam across the creek.

DATE	DISCHARGE		TEMP. °F
	: Second-feet	: Gals. per min.	
Dec. 7, 1948	: 0.0062	: 2.8	:
Jan. 27, 1949 (10:55 a.m.)	: .0088	: 3.9	: 47
Mar. 28 (12:20 a.m.)	: .024	: 10.8	:
May 25 (9:20 a.m.)	: .010	: 4.49	:
June 22 (9:00 a.m.)	: .0080	: 3.59	: 57
July 20 (8:50 a.m.)	: .0026	: 1.17	: 58
Sept. 14 (8:55 a.m.)	: .010	: 4.49	:
Nov. 30 (9:55 a.m.)	: .006	: 2.7	: 52
Dec. 28 (9:15 a.m.)	: .009	: 4.0	: 46
Jan. 24, 1950 (9:00 a.m.)	: .023	: 10.5	: 47
Feb. 16 (11:40 a.m.)	: .024	: 11	:
Apr. 21 (10:25 a.m.)	: .012	: 5.4	: 56
June 8 (11:15 a.m.)	: .008	: 3.59	: 52
July 20 (11:15 a.m.)	: .0026	: 1.17	:
Aug. 24 (8:50 a.m.)	: .0034	: 1.54	: 58
Nov. 2 (10:55 a.m.)	: .0035	: 1.56	: 55
Nov. 29 (11:25 a.m.)	: .0036	: 1.60	:
Dec. 19 (8:40 a.m.)	: .0044	: 1.97	: 50
Feb. 1, 1951 (10:00 a.m.)	: .0052	: 2.34	: 47
Feb. 28 (8:20 a.m.)	: .0070	: 3.12	: 40
Feb. 28 (10:50 a.m.)	: .0076	: 3.41	:
Apr. 24 (8:25 a.m.)	: .0045	: 2.02	:
June 19 (8:05 a.m.)	: .0038	: 1.71	: 53
July 25 (8:05 a.m.)	: .0021	: .95	: 57
Aug. 22 (8:20 a.m.)	: .0020	: .91	: 57
Sept. 24 (8:40 a.m.)	: .0017	: .77	: 58
Oct. 22 (8:10 a.m.)	: .0017	: .76	: 51
Nov. 8 (10:25 a.m.)	: .0021	: .93	: 51
Dec. 7 (11:10 a.m.)	: .0050	: 2.24	: 42
Jan. 8, 1952 (11:20 a.m.)	: .0073	: 3.26	: 46
Mar. 13 (12:15 p.m.)	: .056	: 25	: 50
Apr. 10 (12:30 p.m.)	: .019	: 9	: 53
May 21 (8:20 a.m.)	: .038	: 17	: 54
June 18 (8:50 a.m.)	: .065	: 29	: 55

SPRING - J. V. CRAWFORD

Location.- Lat. $34^{\circ}33'30''$, long. $120^{\circ}01'10''$

Altitude.- About 1,700 feet, from topographic map.

Description.- Seepage into uncurbed pool near bottom of small valley in hillside.

DATE	DISCHARGE		TEMP.
	Second-feet	Gals. per min.	°F
Oct. 25, 1948	No flow	No flow	
Jan. 26, 1949 (5:30 p.m.)	0.00018	0.082	
Mar. 8 (10:20 a.m.)	.00029	.128	
Apr. 19 (9:15 a.m.)	.00043	.19	
June 1 (9:35 a.m.)	.00024	.11	
June 21 (9:20 a.m.)	.00018	.080	57
July 20 (9:30 a.m.)	.00010	.045	59
Aug. 16 (9:25 a.m.)	.000043	.019	56
Sept. 27 (9:40 a.m.)	No flow	No flow	
Oct. 25 (9:45 a.m.)	No flow	No flow	
Nov. 22 (9:45 a.m.)	No flow	No flow	53
Dec. 21 (9:45 a.m.)	.00013	.060	40
Jan. 17, 1950 (10:15 a.m.)	.00020	.091	50
Feb. 21 (9:35 a.m.)	.00021	.096	46
Mar. 20	.00015	.065	50
Apr. 19 (10:00 a.m.)	.00022	.10	61
June 27 (9:45 a.m.)	.000040	.018	62
July 24 (8:45 a.m.)	No flow	No flow	
Aug. 30 (8:15 a.m.)	No flow	No flow	
Oct. 17 (9:15 a.m.)	No flow	No flow	
Nov. 16 (1:00 p.m.)	No flow	No flow	
Dec. 12 (9:55 a.m.)	No flow	No flow	
Jan. 23, 1951 (9:45 a.m.)	No flow	No flow	
Feb. 19 (8:45 a.m.)	No flow	No flow	
Mar. 9 (9:15 a.m.)	No flow	No flow	
Apr. 5 (9:05 a.m.)	No flow	No flow	
May 28 (8:30 a.m.)	No flow	No flow	
June 13 (8:15 a.m.)	No flow	No flow	
July 24 (8:15 a.m.)	No flow	No flow	
Sept. 6 (9:20 a.m.)	No flow	No flow	
Sept. 24 (8:35 a.m.)	No flow	No flow	
Oct. 22 (9:20 a.m.)	No flow	No flow	
Nov. 7 (9:15 a.m.)	No flow	No flow	
Dec. 6 (9:30 a.m.)	No flow	No flow	
Feb. 19, 1952 (9:30 a.m.)	.00056	.25	
Apr. 15 (10:00 a.m.)	.00098	1.33	54
May 20 (8:40 a.m.)	.00098	.44	58
June 17 (9:00 a.m.)	.00047	.21	57

SPRING - J. V. CRAWFORD

Location. - Lat. 34°33'20", long. 120°01' 20" .

Altitude. - About 1,750 feet, from topographic map.

Description. - Seepage into uncarved pool on hillside.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
Oct. 25, 1948	(estimated)	0.0007	1/3	:
Jan. 26, 1949	(5:20 p.m.)	.0011	0.48	:
Mar. 8	(10:30 a.m.)	.0011	.48	:
Apr. 19	(9:30 a.m.)	.0011	.50	:
June 1	(9:15 a.m.)	.0010	.47	:
June 21	(9:05 a.m.)	.00098	.44	: 58
July 20	(9:15 a.m.)	.00067	.30	: 60
Aug. 16	(9:10 a.m.)	.00076	.34	: 57
Sept. 27	(9:20 a.m.)	.00060	.27	: 56
Oct. 25	(9:30 a.m.)	.00036	.16	: 55
Nov. 22	(9:30 a.m.)	.00071	.32	: 53
Dec. 21	(9:30 a.m.)	.00076	.34	: 47
Jan. 17, 1950	(10:00 a.m.)	.00088	.39	: 54
Feb. 21	(9:20 a.m.)	.00066	.29	: 49
Mar. 20	(9:10 a.m.)	.00084	.38	: 52
Apr. 19	(9:45 a.m.)	.00098	.44	: 58
May 16	(8:30 a.m.)	.0013	.58	: 56
June 27	(9:30 a.m.)	.0011	.50	: 60
July 24	(8:25 a.m.)	.00095	.43	: 58
Aug. 30	(8:00 a.m.)	.00076	.34	: 60
Oct. 17	(9:00 a.m.)	.00076	.34	: 55
Nov. 16	(12:35 p.m.)	.00089	.40	: 57
Dec. 12	(9:35 a.m.)	.0010	.47	: 56
Jan. 23, 1951	(9:30 a.m.)	.0010	.45	: 55
Feb. 19	(8:30 a.m.)	.0011	.50	: 53
Mar. 9	(9:00 a.m.)	.0016	.71	: 56
Apr. 5	(8:50 a.m.)	.0015	.68	: 56
May 28	(8:10 a.m.)	.0014	.61	: 58
June 13	(8:00 a.m.)	.0012	.56	: 58
July 24	(8:00 a.m.)	.0011	.50	: 60 *
Sept. 6	(9:05 a.m.)	.0012	.52	: 58
24	(8:20 a.m.)	.00095	.43	: 60
Oct. 22	(9:05 a.m.)	.00088	.39	: 58
Nov. 7	(9:00 a.m.)	.00095	.43	: 59
Dec. 6	(9:15 a.m.)	.0012	.52	: 54
Feb. 19, 1952	(9:15 a.m.)	.0019	.83	: 54
Apr. 15	(9:45 a.m.)	.0034	1.54	: 54
May 20	(8:25 a.m.)	.0026	1.15	: 57
June 17	(8:40 a.m.)	.0024	1.07	: 58

* Stock tank installed since last visit.

SPRING - J. V. CRAWFORD

Location.- Lat. 34°33'20", long. 120°01'30".

Altitude.- About 1,700 feet, from topographic map.

Description.- Seepage into uncurbed pool from alluvium on hillside.

DATE		DISCHARGE		TEMP.
		: second-foot :	: gals. per min. :	: °F :
Oct. 25, 1948	(estimated)	: 0.0004 :	: 1/6 :	:
Jan. 26, 1949	(5:10 p.m.)	: .00060 :	: 0.27 :	:
Mar. 8	(10:40 a.m.)	: .00063 :	: .28 :	:
Apr. 19	(9:45 a.m.)	: .00028 :	: .12 :	:
June 1	(9:00 a.m.)	: .00051 :	: .23 :	:
June 21	(8:50 a.m.)	: .00049 :	: .22 :	: 58
July 20	(9:00 a.m.)	: .00044 :	: .20 :	: 60
Aug. 16	(8:50 a.m.)	: .00045 :	: .20 :	: 57
Sept. 27	(9:00 a.m.)	: .00046 :	: .21 :	: 57
Oct. 25	(9:15 a.m.)	: .00045 :	: .20 :	: 56
Nov. 22	(9:15 a.m.)	: .00048 :	: .21 :	: 54
Dec. 21	(10:00 a.m.)	: .00048 :	: .22 :	: 44
Jan. 17, 1950	(9:45 a.m.)	: .00050 :	: .22 :	: 50
Feb. 21	(9:05 a.m.)	: .00045 :	: .20 :	: 49
Mar. 20	(9:00 a.m.)	: .00039 :	: .13 :	: 53
Apr. 19	(9:30 a.m.)	: .00036 :	: .16 :	: 63
May 16	(8:15 a.m.)	: .00056 :	: .25 :	: 52
June 27	(9:15 a.m.)	9 drops in 5.0 seconds		:
July 24	(8:00 a.m.)	: .00025 :	: .11 :	: 60
Aug. 30	(7:45 a.m.)	: .00022 :	: .097 :	: 63
Oct. 17	(8:45 a.m.)	: .00032 :	: .14 :	: 55
Nov. 16	(12:20 p.m.)	: .00038 :	: .17 :	: 53
Dec. 12	(9:15 a.m.)	: .00028 :	: .13 :	: 53
Jan. 23, 1951	(9:15 a.m.)	: .00020 :	: .091 :	: 50
Feb. 19	(8:15 a.m.)	: .00038 :	: .17 :	: 42
Mar. 9	(8:45 a.m.)	: .00037 :	: .17 :	: 48
Apr. 5	(8:35 a.m.)	: .00039 :	: .18 :	: 51
May 28	(7:50 a.m.)	: .00041 :	: .19 :	: 58
June 13	(7:45 a.m.)	: .00033 :	: .15 :	: 58
July 24	(7:45 a.m.)	: .00036 :	: .16 :	: 56
Sept. 6	(8:45 a.m.)	: .0022 :	: 1.00 :	: 57 *
24	(8:00 a.m.)	: .0011 :	: .48 :	:
Oct. 22	(8:45 a.m.)	: .00093 :	: .42 :	: 58
Nov. 7	(8:45 a.m.)	: .0010 :	: .45 :	: 59
Dec. 6	(9:00 a.m.)	: .0010 :	: .47 :	: 57
Feb. 19, 1952	(9:00 a.m.)	: .0024 :	: 1.07 :	: 57
Apr. 15	(9:30 a.m.)	: .0034 :	: 1.54 :	: 54
May 20	(8:10 a.m.)	: .0024 :	: 1.07 :	: 57
June 17	(8:20 a.m.)	: .0022 :	: 1.00 :	: 57

* New spring box installed.

SPRING - J. V. CRAWFORD

Location. - Lat. $34^{\circ}33'40''$, long. $120^{\circ}01'40''$.

Altitude. - About 1,150 feet, from topographic map.

Description. - Wood-curbed spring in side canyon near bottom of 8-foot natural falls. Discharge measured at end of 3/4-inch pipe leading to circular concrete stock trough.

DATE		DISCHARGE		TEMP.
		: Second-feet :	: Gals. per min. :	
Oct. 25, 1948		: 0.00027 :	: 0.12 :	
Jan. 26, 1949	(4:50 p.m.)	: .00095 :	: .43 :	
Mar. 6	(9:10 a.m.)	: .0015 :	: .68 :	
Apr. 19	(8:45 a.m.)	: .0012 :	: .56 :	
June 1	(8:30 a.m.)	: .00084 :	: .38 :	
June 21	(8:20 a.m.)	: .00057 :	: .25 :	50
July 20	(8:30 a.m.)	: .00027 :	: .12 :	56
Aug. 16	(8:25 a.m.)	: .00031 :	: .14 :	50
Sept. 7	(8:30 a.m.)	: .00026 :	: .11 :	56
Oct. 25	(8:45 a.m.)	: .00033 :	: .15 :	55
Nov. 22	(8:45 a.m.)	: .00049 :	: .22 :	48
Dec. 21	(9:00 a.m.)	: .00073 :	: .42 :	41
Jan. 17, 1950	(9:15 a.m.)	: .0013 :	: .60 :	49
Feb. 21	(8:25 a.m.)	: .0012 :	: .52 :	46
Mar. 20	(8:20 a.m.)	: .0010 :	: .47 :	50
Apr. 19	(9:00 a.m.)	: .00095 :	: .43 :	55
May 16	(7:30 a.m.)	: .00074 :	: .33 :	52
June 27	(8:45 a.m.)	: .00039 :	: .18 :	58
July 24	(7:30 a.m.)	: .00031 :	: .14 :	58
Aug. 30	(7:15 a.m.)	: .000047 :	: .021 :	63
Oct. 17	(8:15 a.m.)	: .00027 :	: .12 :	54
Nov. 16	(11:30 a.m.)	: .00047 :	: .21 :	51
Dec. 12	(8:30 a.m.)	: .00067 :	: .30 :	53
Jan. 23, 1951	(8:30 a.m.)	: .00070 :	: .31 :	48
Feb. 19	(7:45 a.m.)	: .00074 :	: .33 :	42
Mar. 9	(8:00 a.m.)	: .00088 :	: .39 :	47
Apr. 5	(7:45 a.m.)	: .00080 :	: .36 :	52
May 28	(7:20 a.m.)	: .00042 :	: .19 :	59
June 13	(9:30 a.m.)	: No flow :	: No flow :	
July 24	(7:15 a.m.)	: .00018 :	: .08 :	58
Sept. 6	(7:45 a.m.)	: .000073 :	: .033 :	55
24	(7:15 a.m.)	: .00013 :	: .060 :	
Oct. 22	(8:15 a.m.)	: .00013 :	: .060 :	
Nov. 7	(8:20 a.m.)	: .00030 :	: .14 :	52
Dec. 6	(8:30 a.m.)	: .0012 :	: .54 :	47
Feb. 19, 1952	(8:15 a.m.)	: .0044 :	: 1.97 :	48
Apr. 15	(8:35 a.m.)	: .042 :	: 19 :	43
May 20	(7:20 a.m.)	: .011 :	: 4.34 :	57
June 17	(7:25 a.m.)	: .0035 :	: 1.62 :	54

SAN LUCAS CREEK BELOW SPRING #149

Location.- Lat. $34^{\circ}32'50''$, long. $120^{\circ}01'40''$, at wood cribbed spring No. 149 about 1.7 miles south of Highway 150.

Altitude.- About 1,100 feet, from topographic map.

Description.- Measuring site in natural stream channel below spring #149.

Diversion.- Spring #149 diversion above for stock.

DATE		DISCHARGE		TEMP.
		: Second-feet :	: Gals. per min. :	: °F :
Apr. 19, 1949	(9:00 a.m.)	: No flow :	: No flow :	:
June 1	(8:35 a.m.)	: No flow :	: No flow :	:
June 21	(8:30 a.m.)	: No flow :	: No flow :	:
July 20	(8:15 a.m.)	: No flow :	: No flow :	:
Aug. 16	(8:15 a.m.)	: No flow :	: No flow :	:
Sept. 27	(8:20 a.m.)	: No flow :	: No flow :	:
Oct. 25	(8:30 a.m.)	: No flow :	: No flow :	:
Nov. 22	(8:30 a.m.)	: No flow :	: No flow :	:
Dec. 21	(8:50 a.m.)	: No flow :	: No flow :	:
Jan. 17, 1950	(9:00 a.m.)	: 0.017 :	: 7.5 :	: 49 :
Feb. 21	(8:40 a.m.)	: .021 :	: 9.4 :	: 50 :
Mar. 20	(8:35 a.m.)	: .010 :	: 4.9 :	: 52 :
Apr. 19	(8:45 a.m.)	: .0044 :	: 2.0 :	: 55 :
May 16	(7:45 a.m.)	: No flow :	: No flow :	:
June 27	(8:30 a.m.)	: No flow :	: No flow :	:
July 24	(7:00 a.m.)	: No flow :	: No flow :	:
Aug. 30	(7:00 a.m.)	: No flow :	: No flow :	:
Oct. 17	(8:00 a.m.)	: No flow :	: No flow :	:
Nov. 16	(11:45 a.m.)	: No flow :	: No flow :	:
Dec. 12	(8:45 a.m.)	: No flow :	: No flow :	:
Jan. 23, 1951	(8:45 a.m.)	: No flow :	: No flow :	:
Feb. 19	(9:15 a.m.)	: No flow :	: No flow :	:
Mar. 9	(8:15 a.m.)	: No flow :	: No flow :	:
Apr. 5	(8:10 a.m.)	: No flow :	: No flow :	:
May 28	(7:00 a.m.)	: No flow :	: No flow :	:
June 13	(9:15 a.m.)	: No flow :	: No flow :	:
July 24	(7:00 a.m.)	: No flow :	: No flow :	:
Sept. 6	(8:00 a.m.)	: No flow :	: No flow :	:
24	(7:00 a.m.)	: No flow :	: No flow :	:
Oct. 22	(8:00 a.m.)	: No flow :	: No flow :	:
Nov. 7	(8:00 a.m.)	: No flow :	: No flow :	:
Dec. 6	(8:15 a.m.)	: No flow :	: No flow :	:
Feb. 19, 1952	(8:25 a.m.)	: .067 :	: 30 :	: 45 :
Apr. 15	(8:50 a.m.)	: .30 :	: 134 :	: 48 :
May 20	(7:45 a.m.)	: .092 :	: 41 :	: 58 :
June 17	(4:50 a.m.)	: .014 :	: 6.3 :	: 56 :

SPRING - RANCHO JOAN Y LOLITA

Location.- Lat. $34^{\circ}34'10''$, long. $120^{\circ}03'10''$

Altitude.- About 1,150 feet, from topographic map.

Description.- Wood-curbed pool on hillside. Discharge measured at first pipe union below spring.

DATE	DISCHARGE		TEMP. °F
	Second-feet	Gals. per min.	
Dec. 3, 1948	Not meas.	Not meas.	:
Feb. 1, 1949	0.0056	2.50	:
Apr. 8 (8:30 a.m.)	.0059	2.7	:
May 26 (8:30 a.m.)	.0053	2.40	:
June 20 (8:05 a.m.)	.0050	2.24	: 68
July 19 (8:00 a.m.)	.0045	2.03	: 64
Aug. 15 (8:00 a.m.)	.0044	1.97	: 64
Sept. 26 (8:15 a.m.)	.0040	1.78	: 62
Oct. 24 (8:45 a.m.)	.0037	1.64	: 62
Nov. 21 (8:30 a.m.)	.0024	1.07	: 62
Dec. 20 (8:15 a.m.)	.0032	1.42	: 60
Jan. 18, 1950 (8:30 a.m.)	.0034	1.54	: 63
Feb. 20 (8:30 a.m.)	.0020	.89	: 62
Mar. 22 (8:25 a.m.)	.0027	1.2	: 63
Apr. 18 (8:20 a.m.)	.0028	1.3	: 62
May 15 (7:30 a.m.)	.0026	1.15	: 63
June 26 (11:45 a.m.)	.0039	1.73	: 62
July 21 (7:40 a.m.)	.0039	1.73	: 62
Aug. 29 (7:00 a.m.)	.0035	1.56	: 62
Oct. 16 (7:45 a.m.)	.0030	1.35	: 62
Nov. 13	.0031	1.38	: 62
Dec. 11 (7:45 a.m.)	.0032	1.42	: 62
Jan. 8, 1951 (8:00 a.m.)	.0029	1.32	: 62
Feb. 5 (8:30 a.m.)	.0034	1.52	: 62
Mar. 5 (8:00 a.m.)	.0073	3.27	: 62
Apr. 4 (8:00 a.m.)	.0036	1.64	: 65
May 15 (7:00 a.m.)	.0033	1.50	: 63
June 12 (7:00 a.m.)	.0056	2.50	: 63
July 23 (7:25 a.m.)	.0027	1.20	: 63
Aug. 20 (7:00 a.m.)	.0025	1.12	: 63
Sept. 17 (7:00 a.m.)	.0024	1.06	: 63
Oct. 10 (8:00 a.m.)	.0023	1.05	: 63
Nov. 5 (8:00 a.m.)	.0021	.92	: 63
Dec. 4 (11:45 a.m.)	.0025	1.12	: 63
Jan. 9, 1952 (8:15 a.m.)	.0028	1.26	: 62
Feb. 18 (9:00 a.m.)	.074	33	: 64
Apr. 14 (8:15 a.m.)	.11	50	: 66
May 19 (7:15 a.m.)	.050	22	: 65
June 16 (7:15 a.m.)	.038	17	: 65

STATION 152

EAST FORK, QUIOTA CREEK

Location.- Lat. $34^{\circ}33'20''$, long. $120^{\circ}03'20''$, about 1.3 miles east of Refugio Pass Road.

Altitude.- About 950 feet, from topographic map.

Description.- Measuring site at outcrop in natural stream channel, reached by private road on the Juan Y. Lolita Ranch.

Diversion.- No known diversions.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
May 26, 1949	(10:35 a.m.)	No flow:	No flow	:
June 20	(10:20 a.m.)	No flow:	No flow	:
July 19	(10:30 a.m.)	No flow:	No flow	:
Aug. 15	(10:20 a.m.)	No flow:	No flow	:
Sept. 26	(10:10 a.m.)	No flow:	No flow	:
Oct. 24	(11:00 a.m.)	No flow:	No flow	:
Nov. 21	(9:45 a.m.)	No flow:	No flow	:
Dec. 20	(10:30 a.m.)	No flow:	No flow	:
Jan. 18, 1950	(11:30 a.m.)	No flow:	No flow	:

SPRING - RANCHO JUAN Y LOLITA

Location.- Lat. $34^{\circ}33'30''$, long. $120^{\circ}03'30''$.

Altitude.- About 1,150 feet, from topographic map.

Description.- Seep in small side canyon. Stock drink from pools.

DATE		DISCHARGE		TEMP.
		Second-Feet	Gals. per min.	:°F
Feb. 1, 1949		0.00080	0.36	:
Apr. 8	(11:45 a.m.)	.00047	.21	:
May 26	(10:50 a.m.)	.00048	.21	:
June 20	(10:35 a.m.)	.00019	.086	: 71
July 19	(11:00 a.m.)	.00015	.068	: 69
Aug. 15	(10:40 a.m.)	.00022	.100	: 61
Sept. 26	(10:20 a.m.)	.00091	.041	: 60
Oct. 24	(10:45 a.m.)	.00014	.061	: 54
Nov. 21	(10:00 a.m.)	.00019	.087	: 53
Dec. 20	(10:45 a.m.)	.00034	.15	: 45
Jan. 18, 1950	(11:45 a.m.)	.00070	.31	: 55
Feb. 20	(10:45 a.m.)	.00057	.25	: 52
Mar. 22	(10:45 a.m.)	.00056	.25	:
Apr. 18	(10:30 a.m.)	.00046	.21	: 60
May 15	(9:30 a.m.)	.00015	.065	: 55
June 26	(2:10 p.m.)	.00031	.14	: 62
July 21	(9:30 a.m.)	.00032	.014	: 68
Aug. 29	(9:45 a.m.)	No flow	No flow	:
Oct. 16	(9:50 a.m.)	No flow	No flow	:
Nov. 13	(10:20 a.m.)	.00024	.11	: 55
Dec. 11	(10:00 a.m.)	.00040	.18	: 56
Jan. 8, 1951	(10:10 a.m.)	.00024	.11	: 46
Feb. 5	(10:30 a.m.)	.00048	.21	: 57
Mar. 5	(10:30 a.m.)	.00043	.19	: 53
Apr. 4	(10:10 a.m.)	.00045	.20	: 56
May 15	(9:00 a.m.)	.00018	.079	: 55
June 12	(9:00 a.m.)	.000072	.032	: 57
July 23	(9:05 a.m.)	No flow.	Pools, some seepage	
Aug. 20	(8:45 a.m.)	No flow	Pools	
Sept. 17	(8:45 a.m.)	No flow	Pool Spring bed damp.	
Oct. 10	(11:00 a.m.)	No flow	Spring dry.	
Nov. 5	(10:00 a.m.)	No flow	Pools.	
Dec. 4	(1:00 p.m.)	No flow	do	
Jan. 9, 1952	(10:20 a.m.)	.00014	.065	:
Feb. 18	(10:30 a.m.)	.0012	.54	:
Apr. 14	(11:05 a.m.)	.0077	3.46	: 58
May 19	(9:30 a.m.)	.0056	2.50	: 63
June 16	(9:00 a.m.)	.0045	2.00	: 62

SPRING - RANCHO JUAN Y LOLITA

Location.- Lat. $34^{\circ}35'40''$, long. $120^{\circ}04'20''$.

Altitude.- About 1,100 feet, from topographic map.

Description.- Old wood-curbed seep in bottom of valley. Discharge measured in boggy area downstream.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.	: °F
Nov. 10, 1948	(estimated)	: 0.0007	: 1/3	:
Feb. 1, 1949		: .00060	: 0.27	:
Apr. 8	(10:45 a.m.)	: .00059	: .27	:
May 26	(10:00 a.m.)	: .00038	: .17	:
June 20	(9:45 a.m.)	: .00026	: .12	: 72
July 19	(10:00 a.m.)	: .00019	: .085	: 77
Aug. 15	(9:45 a.m.)	: .00025	: .11	: 65
Sept. 26	(9:45 a.m.)	: .00016	: .071	: 60
Oct. 24	(10:05 a.m.)	: .00017	: .075	: 55
Nov. 21	(9:15 a.m.)	: .00011	: .050	: 52
Dec. 20	(10:00 a.m.)	: .00026	: .11	: 41
Jan. 18, 1950	(10:45 a.m.)	: .00013	: .059	: 56
Feb. 20	(10:00 a.m.)	: .00023	: .10	: 52
Mar. 22	(10:00 a.m.)	: .000093	: .042	: 65
Apr. 18	(10:00 a.m.)	: .00015	: .065	: 64
May 15	(9:00 a.m.)	: .00015	: .066	: 63
June 26	(1:20 p.m.)	: .00027	: .12	: 62
July 21	(9:00 a.m.)	: .000053	: .024	: 66
Aug. 29	(9:00 a.m.)	: .000030	: .013	: 68
Oct. 16	(9:20 a.m.)	: .000034	: .015	: 62
Nov. 13	(9:30 a.m.)	: .00011	: .151	: 55
Dec. 11	(9:20 a.m.)	: .00011	: .050	: 55
Jan. 8	(9:45 a.m.)	: .00010	: .045	: 52
Feb. 5	(11:45 a.m.)	: .0010	: .046	: 58
Mar. 5	(9:45 a.m.)	: .000049	: .022	: 53
Apr. 4	(9:35 a.m.)	: .00020	: .090	: 58
May 15	(8:30 a.m.)	: No flow	: No flow	:
June 12	(8:15 a.m.)	: do	: do	:
July 23	(8:35 a.m.)	: do	: do	: Pools
Aug. 20	(8:15 a.m.)	: do	: do	: do
Sept. 17	(8:20 a.m.)	: do	: do	: do
Oct. 10	(10:20 a.m.)	: do	: do	: do
Nov. 5	(9:15 a.m.)	: do	: do	: do
Dec. 4	(12:30 p.m.)	: do	: do	: do
Jan. 9, 1952	(9:55 a.m.)	: do	: do	:
Feb. 18	(11:45 a.m.)	: .013	: 6.0	: 62
Apr. 14	(10:30 a.m.)	: .083	: 37	: 62
May 19	(9:00 a.m.)	: .017	: 7.5	: 65
June 16	(8:15 a.m.)	: .011	: 5.2	: 63

SPRING - U. S. FOREST SERVICE

Location.- Lat. 34°32'10", long. 120°03'50".

Altitude.- About 2,040 feet, from topographic map.

Description.- Concrete-curbed spring, 7 feet deep. Discharge measured at road crossing, 170 feet downstream.

DATE		DISCHARGE		TEMP.
		Second-feet	Gals. per min.	°F
Jan. 27, 1949	(4:35 p.m.)	0.023	10.4	
Mar. 28	(2:30 p.m.)	.052	23	
May 25	(11:55 a.m.)	.005	2.24	
June 22	(11:00 a.m.)	No flow	No flow	
July 20	(10:45 a.m.)	No flow	No flow	
Sept. 14	(10:50 a.m.)	No flow	No flow	
Nov. 30	(11:40 a.m.)	No flow	No flow	
Dec. 29	(11:35 a.m.)	.0015	.65	49
Jan. 16, 1950	(1:05 p.m.)	.19	85	46
Feb. 16	(1:40 p.m.)	.034	15	
Mar. 10	(12:15 p.m.)	.0012	.54	51
Apr. 21	(8:15 a.m.)	No flow	No flow	
June 8	(1:00 p.m.)	No flow	No flow	
July 20	(1:45 p.m.)	No flow	No flow	
Aug. 24	(7:35 a.m.)	No flow	No flow	
Nov. 2	(1:30 p.m.)	No flow	No flow	
Nov. 29	(1:30 p.m.)	No flow	No flow	
Dec. 19	(10:30 a.m.)	No flow	No flow	
Jan. 29, 1951	(2:00 p.m.)	.0015	.68	47
Feb. 26	(1:30 p.m.)	No flow	No flow	
Mar. 21	(7:00 a.m.)	No flow	No flow	
Apr. 24	(6:55 a.m.)	No flow	No flow	
June 19	(7:00 a.m.)	No flow	No flow	
July 25	(7:00 a.m.)	No flow	No flow	
Aug. 22	(7:00 a.m.)	No flow	No flow	
Sept. 24	(7:20 a.m.)	No flow	No flow	
Oct. 22	(7:30 a.m.)	No flow	No flow	
Nov. 8	(11:55 a.m.)	No flow	No flow	
Dec. 7	(1:00 p.m.)	.084	38	50
Jan. 8, 1952	(1:30 p.m.)	.11	60	46
Mar. 13	(2:15 p.m.)	.97	435	
Apr. 10	(10:00 a.m.)	.040	18	50
May 21	(10:10 a.m.)	.0056	2.50	55
June 18	(10:40 a.m.)	.00093	.42	59

WEST FORK QUIOTA CREEK

Location.- Lat. $34^{\circ}33'10''$, long. $120^{\circ}04'20''$, about 0.3 mile east of Refugio Pass Road.

Altitude.- About 800 feet, from topographic map.

Description.- Measuring site in natural creek channel at road crossing on Juan Y Lolita Ranch.

Diversions.- No known diversions above station. An upstream diversion for the former C.C.C. Camp has been abandoned.

DATE		DISCHARGE		TEMP.
		: Second-feet	: Gals. per min.	
Feb. 1, 1949	(3:15 p.m.)	0.076	34	
April 8	(11:15 a.m.)	.16	70	
May 26	(9:40 a.m.)	.013	5.8	
June 20	(9:35 a.m.)	No flow	No flow	
July 19	(9:30 a.m.)	No flow	No flow	
Aug. 15	(9:20 a.m.)	No flow	No flow	
Sept. 16	(9:30 a.m.)	No flow	No flow	
Oct. 24	(9:45 a.m.)	No flow	No flow	
Nov. 21	(9:00 a.m.)	No flow	No flow	
Dec. 20	(9:30 a.m.)	.11	51	42
Jan. 13, 1950	(10:15 a.m.)	.20	89	48
Feb. 20	(9:30 a.m.)	.30	130	50
Mar. 22	(9:30 a.m.)	.014	6.3	53
Apr. 18	(9:23 a.m.)	.049	22	57
May 15	(8:30 a.m.)	.026	12	53
June 26	(1:00 p.m.)	No flow	No flow	
July 21	(8:30 a.m.)	No flow	No flow	
Aug. 29	(8:25 a.m.)	No flow	No flow	
Oct. 16	(9:00 a.m.)	No flow	No flow	
Nov. 13	(9:10 a.m.)	No flow	No flow	
Dec. 11	(9:00 a.m.)	No flow	No flow	
Jan. 8, 1951	(9:30 a.m.)	No flow	No flow	
Feb. 5	(9:30 a.m.)	No flow	No flow	
Mar. 5	(9:25 a.m.)	.057	26	48
Apr. 4	(9:15 a.m.)	.038	17	53
May 15	(8:00 a.m.)	.033	15	54
June 12	(8:00 a.m.)	No flow	No flow	
July 23	(8:20 a.m.)	No flow	No flow	
Aug. 20	(8:00 a.m.)	No flow	No flow	
Sept. 17	(8:00 a.m.)	No flow	No flow	
Oct. 10	(10:10 a.m.)	No flow	No flow	
Nov. 5	(9:00 a.m.)	No flow	No flow	
Dec. 4	(12:10 p.m.)	.065	29	51
Jan. 9, 1952	(9:35 a.m.)	.65	291	40
Feb. 18	(11:05 a.m.)	.86	388	49
Apr. 14	(10:00 a.m.)	1.73	775	52
May 19	(8:25 a.m.)	.36	163	58
June 16	(7:50 a.m.)	.12	56	55



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