STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

EARL WARREN, Governor

FRANK B. DURKEE, Director of Public Works

A. D. EDMONSTON, State Engineer

REPORT ON
WATERMASTER SERVICE
IN
NORTH FORK PIT RIVER WATERMASTER SERVICE AREA
Modoc County, California
1952 SEASON

Sacramento, California
March, 1953

SUBMISSION TO, AND ADOPTION BY
DEPARTMENT OF PUBLIC WORKS

I, L. C. Jopson, Supervising Hydraulic Engineer, Division of Water Resources, Department of Public Works of the State of California, submit this "Report on Watermaster Service in North Fork Pit River Watermaster Service Area, Modoc County, California, 1952 Season".

/s/ L. C. JOPSON
Supervising Hydraulic Engineer

I, Harrison Smitherum, Supervising Hydraulic Engineer, Division of Water Resources, Department of Public Works of the State of California, approve this "Report on Watermaster Service in North Fork Pit River Watermaster Service Area, Modoc County, California, 1952 Season".

/s/ HARRISON SMITHERUM
Supervising Hydraulic Engineer

I, A. D. Edmonston, State Engineer and Chief of the Division of Water Resources, Department of Public Works of the State of California, approve and adopt this "Report on Watermaster Service in North Fork Pit River Watermaster Service Area, Modoc County, California, 1952 Season", as a report of the Department of Public Works.

WITNESS my hand and the seal of the Department of Public Works of the State of California, this 27th day of March, 1953.

DEPARTMENT OF PUBLIC WORKS
STATE OF CALIFORNIA

By /s/ A. D. EDMONSTON
A. D. Edmonston
State Engineer

(SEAL)

ORGANIZATION

Frank B. Durkee	Director of Public Works
A. D. Edmonston	State Engineer
* Gordon Zander	Assistant State Engineer

This report was prepared under the direction of

L. C. Jopson
Supervising Hydraulic Engineer

By
Jack W. Cook
Assistant Hydraulic Engineer
and Watermaster

T. R. Merryweather
Administrative Officer

* Retired December 31, 1952

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INTRODUCTION

This is the thirteenth annual report on watermaster service in the North Fork Pit River Watermaster Service Area, and covers the period of water distribution in 1952 beginning on April 21 and terminating on September 30.

The service area was created by order of the Division of Water Resources on December 18, 1939 and was supplemented and revised by order of December 13, 1940. The service area includes the water rights determined by decrees of the Superior Court, Modoc County, on the North Fork Pit River and its tributaries except Franklin Creek and on various streams tributary to Goose Lake as follows:

Stream	Case	Number
New Pine Creek	Keller, et. al. v. Jensen, et. al.	2821
Cottonwood Creek	Oliver vs. Robnett, et. al.	2344
Davis Creek	Lake Shore Cattle Co., et. al. vs. Mulkey, et. al.	2732
Franklin Creek	Crowder, et. al. vs. Indart, et. al.	3113
North Fork Pit River Linville Creek Joseph Creek Thome Creek Gleason Creek Parker Creek Shields Creek	In Re North Fork Pit River and all its tributaries except Franklin Creek in Modoc County, California.	4074

Prior to December 18, 1939 service areas had been created on separate streams as the water rights had been determined on each. To simplify administration, these smaller service areas were combined into a single unit by the above dated orders.

Watermaster service has been provided during each irrigation season since the service area was created and annual reports prepared to show the work accomplished during each season.

The report is presented herein under four headings as follows: Introduction, Water Supply, Distribution of Water, Changes in Ownership of Lands and Water Rights. Following the text are tables presenting precipitation and hydrographic data.

WATER SUPPLY

Precipitation

Data on precipitation, as compiled from observations made by the United States Weather Bureau at Alturas, California and Lakeview, Oregon, for the period October 1, 1951 to September 30, 1952 are shown in Table 1. The precipitation for the period was 23.01 inches for Alturas and 17.77 inches for Lakeview which is equivalent to about 213 per cent and 133 per cent respectively, of the normal precipitation.

The water content of the snowpack on Eagle Peak, Blue Lake Ranch and Cedar Pass snow courses in 1952, as published in the bulletin entitled "Water Conditions in California as of April 1, 1952", averaged 17 inches or 179 per cent of the computed normal for the three courses.

Stream Flow

Measuring stations equipped with water stage recorders were maintained on the various streams within the service area as follows:

New Pine Creek below Schroeder's - rated section.
Cottonwood Creek above Diversions - rated section.
Davis Creek at Old Fish Wheel - rated section.
Linville Creek at Old Power House - 3 foot rectangular weir.
Franklin Creek above Diversions - 4 foot rectangular weir.
Joseph Creek below Couch Creek - rated section.
Thomas Creek at Alturas-Cedarville Highway - rated section.
Glasson Creek at Jones Ranch - 3 foot rectangular weir.
Parker Creek at Fogarty Ranch - rated section.
Shields Creek below Pepperdine's - 6 foot rectangular weir.
Parker Creek above Highway 395 - rated section.
North Fork Pit River above old X-L Ranch - rated section.

The records of daily discharge for these stations are presented in Tables 3 to 14, inclusive, submitted at the end of this report.

DISTRIBUTION OF WATER

Distribution on the various streams within the North Fork Pit River Watermaster Service Area was in accordance with the allotments and priorities set forth in the respective decrees determining the rights thereon. The stream flow available for distribution was determined from the measured discharge at the respective measuring stations. A discussion of the results accomplished follows:

New Pine Creek

The available discharge of New Pine Creek was sufficient to supply all allotments until July 20, 1952. After June 30 the proration system was changed to a priority system of distribution in accordance with the New Pine Creek decree.

The distribution of water in percent of priority allotments from July to September was as follows:

Priority	July	August	September
1 st.	100	100	100
2 nd.	100	67	9
3 rd.	100	15	0
4 th	66	0	0

Cottonwood Creek

The discharge of Cottonwood Creek was sufficient to supply all irrigation and domestic requirements until June 12 and by July 1 only first, second, and third priority water was available. On July 30 a cloudburst hit the Cottonwood Canyon and a peak flow of 60 cubic feet per second buried the recorder well and float, washed out the Fleming diversion dam and filled the Vincent diversion dam with silt.

The distribution of water in percent of priority allotments from June to September was as follows:

Priority	June	July	August	September
1st	100	100	86	40
2nd	100	100	29	0
3rd	100	29	0	0
4th	87	0	0	0
5th	43	0	0	0
6th	43	0	0	0

Davis Creek

The discharge of Davis Creek was sufficient to supply all irrigation and domestic allotments until June 10. First, second, and 70 per cent of third priorities were supplied on July 1 of this year.

The distribution of water in percent of priority allotments from June to September was as follows:

Priority	June	July	August	September
1st	100	100	100	100
2nd	100	100	100	100
3rd	80	39	14	0
4th	50	0	0	0

Lairville Creek

The distribution of water in percent of priority allotments from June to September was as follows:

Priority	June	July	August	September
1st	100	100	86	71
2nd	10	0	0	0

Franklin Creek

The discharge of Franklin Creek was sufficient to supply all allotments until June 10 this year.

The distribution of water in percent of priority allotments from June to September was as follows:

Priority	June	July	August	September
1st	100	100	100	100
2nd	100	100	100	100
3rd	87	37	6	10
4th	43	0	0	0

Joseph Creek

The discharge of Joseph Creek was sufficient to supply all allotments until July 5 this year. This was due to an abnormal amount of rain during June.

The distribution of water in percent of priority allotments from July to September was as follows:

Priority	July	August	September
1st	100	100	90
2nd	88	56	7
3rd	43	0	0
4th	29	0	0

Thoms Creek

The discharge of Thoms Creek was sufficient to supply all allotments until August 8 this year.

The distribution of water in percent of priority allotments during August and September was as follows:

Priority	August	September
1st	100	100
2nd	60	100
3rd	29	70

Gleason Creek

The discharge of Gleason Creek supplied all allotments until May 17 this year. The stream was dry August 20.

The distribution of water in percent of priority allotments from May to September was as follows:

Priority	May	June	July	August	September
1st	100	100	100	48	0
2nd	100	100	71	0	0
3rd	95	26	6	0	0
4th	83	0	0	0	0
5th	66	0	0	0	0

Parker Creek and Tributaries Including Shields Creek

The waters of Parker Creek measured at Fogarty Ranch and the waters of Shields Creek measured below Fepperdine Ranch are totaled, and alloted according to adjudicated rights.

The distribution of water in percent of priority allotments from July to September was as follows:

Priority	July	August	September
1st	100	100	100
2nd	100	100	100
3rd	100	65	36
4th	100	43	0

North Fork Fit River

Two recorders are used in determining the total quantity of water available; one recorder is maintained above all diversions on North Fork Fit River above old XL ranch and another recorder is maintained on Parker Creek at the confluence with North Fork Fit River.

The discharge of North Fork Fit River supplied all requirements until July this year.

The distribution of water in percent of priority allotments from June to September was as follows:

Priority	June	July	August	September
1st	100	100	80	96
2nd	100	94	24	28
3rd	100	61	4	7
4th	86	29	0	0
5th	86	29	0	0

CHANGES IN OWNERSHIP OF LANDS AND WATER RIGHTS

The changes in ownership of lands and water rights which have occurred subsequent to filing "Statement for North Fork Pit River Watermaster Service Area, County of Modoc, State of California, for 1952", and which will be included in the statement for said watermaster service area for 1953, are listed in the following tabulation:

Tract No.	Name of Water Right Owner Appearing in 1952 Statement	Name of Water Right Owner to Appear in 1953 Statement	Amount of Water c.f.s.
9-99	Bodle, M. A. and Bodle, Mabel E.	Kaiser, Clarence A.	2.40
9-123	Morris, Wallace T. and Morris, Martha A.	Shields, Jack	2.62
9-82	Allen, Floyd P. and Allen, Ruth R.	Franks, John L. et. al.	6.08
9-118, 9-120 9-122	Bolliger, A. and Keller, Estate of A.	North Fork Cattle Co. c/o W. S. Waldridge Jr.	12.35

TABLE 1

PRECIPITATION AT ALTURAS, CALIFORNIA
AND LAKEVIEW, OREGON
1951-1952

ALTURAS, CALIFORNIA - Elevation 4,440 feet

Month	Normal Precipitation Inches	1951-52 Precipitation Inches	Percent of Normal
October	1.24	1.76	142
November	1.38	0.95	69
December	1.33	3.00	225
January	1.56	2.75	176
February	1.27	2.60	205
March	1.22	3.55	291
April	1.19	0.83	70
May	1.11	0.48	43
June	0.66	4.63	700
July	0.32	1.21	380
August	0.31	0.00	0
September	0.50	1.25	250
TOTAL	12.09	23.01	213

LAKEVIEW, OREGON - Elevation 4750 Feet

Month	Normal Precipitation Inches	1951-52 Precipitation Inches	Percent of Normal
October	0.96	1.50	156
November	1.62	1.70	105
December	1.79	3.52	196
January	1.90	1.77	93
February	1.50	1.63	109
March	1.43	0.88	61
April	1.18	0.90	76
May	1.25	1.00	80
June	0.60	2.90	480
July	0.31	0.56	180
August	0.25	0.09	36
September	0.64	1.32	206
TOTAL	13.43	17.77	133

Data compiled from records of U. S. Weather Bureau.

TABLE 2

SNOW SURVEY DATA - UPPER PIT RIVER AREA
APRIL 1st MEASUREMENT

Year	Water Content of Snow - Inches		
	Eagle Peak Elevation - 7,500	Blue Lake Ranch Elevation - 7,200	Cedar Pass Elevation - 7,200
1941	13.8	8.4	17.9
1942	14.7	11.7	19.3
1943	23.7	15.3	25.8
1944	13.5	8.5	12.3
1945	22.2	15.8	22.4
1946	21.2	16.2	22.9
1947	6.4	5.3	10.3
1948	14.4	10.1	15.7
1949	19.1	16.7	22.0
1950	17.9	11.3	19.1
1951	13.6	9.4	12.8
1952	32.6	22.6	34.1
Computed 62-year Normal	18.6	11.5	20.5
Per cent of Normal	175	196	166

Data compiled from records of California Cooperative Snow Surveys.

TABLE 3

Daily Discharge in Cubic Feet Per Second

NEW PINE CREEK BELOW SCHROEDERS

April 21 to September 20, 1952

Day	April	May	June	July	August	September
1		68.	81.	45.	14.0	3.2
2		66.	81.	42.	13.0	3.2
3		61.	82.	40.	12.5	3.2
4		56.	83.	39.	12.0	3.4
5		55.	84.	38.	11.0	3.4
6		58.	85.	34.	10.5	3.6
7		69.	84.	33.	10.5	3.6
8		69.	77.	30.	10.0	3.6
9		66.	81.	27.	10.0	4.0
10		66.	82.	27.	9.0	4.0
11		75.	76.	30.	9.0	3.2
12	NO	75.	67.	30.	8.5	3.6
13		82.	60.	28.	8.0	3.0
14	RECORD	78.	58.	26.	8.0	3.0
15		76.	50.	25.	7.5	3.2
16		77.	47.	23.	7.0	3.2
17		79.	47.	22.	6.6	3.0
18		79.	49.	21.	6.6	3.0
19		84.	51.	19.5	6.6	3.0
20		84.	50.	17.0	6.4	3.0
21	43.	82.	50.	12.5	6.4	
22	50.	78.	50.	14.0	6.0	NO
23	62.	78.	52.	14.0	5.6	
24	72.	85.	58.	13.0	5.4	RECORD
25	87.	87.	60.	13.0	5.0	
26	93.	89.	54.	13.0	4.5	
27	90.	87.	55.	15.5	4.0	
28	89.	89.	58.	17.5	3.6	
29	78.	92.	54.	14.5	3.4	
30	70.	86.	47.	16.0	3.4	
31	—	88.	—	14.5	3.0	—
Total Sec. Ft. Days	*734.0	2364.0	1913.0	754.0	237.0	**66.4
Mean Sec. Ft.	* 73.4	76.3	63.8	24.3	7.6	** 3.3
Total Ac. Ft.	*1,456	4,690	3,794	1,496	470	**132

* 10 day record

** 20 day record

Total for period - 12,038 acre-feet.

TABLE 4

Daily Discharge in Cubic Feet Per Second

COTTONWOOD CREEK ABOVE ALL DIVERSIONS

May 23 to September 18, 1952

Day	May	June	July	August	September
1		29.	5.6	1.6	1.4
2	No	24.	4.5	1.6	1.4
3		24.	4.0	1.6	1.4
4	Record	24.	3.5	1.6	1.4
5		23.	3.4	1.6	1.4
6		24.	3.4	1.6	1.4
7.		24.	3.4	1.6	1.5
8		23.	3.4	1.6	1.5
9	25.	22.	3.0	1.6	1.5
10		21.	3.0	1.6	1.5
11		19.0	3.2	1.6	1.5
12	No	15.5	3.2	1.6	1.5
13		12.5	3.0	1.6	1.5
14	Record	10.3	2.7	1.6	1.5
15		7.5	2.7	1.6	1.5
16	24.	5.4	2.4	1.6	1.5
17		5.0	2.1	1.6	1.5
18	No	4.6	2.0	1.6	1.5
19		4.6	1.9	1.6	
20	Record	5.4	1.9	1.5	
21		5.6	1.8	1.5	
22		6.0	1.7	1.5	No
23	31.	8.3	1.6	1.5	
24	34.	14.0	1.6	1.4	Record
25	36.	10.2	1.6	1.4	
26	36.	9.5	1.6	1.4	
27	36.	9.0	1.6	1.4	
28	35.	8.3	1.6	1.4	
29	34.	7.5	1.6	1.4	
30	32.	6.5	7.5	1.4	
31	30.	—	1.6	1.4	—
Total Sec. Ft. Days	*353.0	412.7	138.6	47.6	**26.4
Mean Sec. Ft.	*32.1	13.8	4.5	1.5	**1.5
Total Ac. Ft.	*700	817	275	94	**52

*11 Day record
**18 Day record

Total for period = 1,938 Acre-feet.

~~TABLE 5~~

Daily Discharge in Cubic Feet Per Second

DAVIS CREEK AT OLD FISHERMEL

May 6 to September 24, 1952

Day	May	June	July	August	September
1		65.	28.	10.8	6.5
2	No	62.	25.	10.0	6.8
3		56.	24.	9.2	7.0
4	Record	56.	24.	9.2	6.4
5		55.	23.	9.2	6.4
6	68.	54.	22.	8.5	6.4
7	72.	51.	22.	7.5	6.4
8	72.	50.	21.	7.2	6.4
9	62.	54.	20.	7.2	7.2
10	60.	54.	19.5	7.2	7.8
11	62.	47.	22.	7.2	10.0
12	65.	44.	21.	7.0	10.0
13	68.	39.	19.5	7.0	8.5
14	75.	35.	19.0	7.0	7.5
15	75.	33.	18.0	7.0	7.2
16	71.	31.	17.0	7.0	7.0
17	74.	29.	16.0	7.0	6.8
18	79.	26.	15.0	6.0	6.4
19	78.	29.	15.0	6.8	6.2
20	70.	26.	14.5	6.2	6.0
21	74.	29.	14.0	6.0	6.0
22	75.	28.	13.2	6.0	5.8
23	78.	41.	14.0	6.0	6.0
24	81.	35.	14.0	6.0	6.2
25	82.	37.	13.0	5.8	
26	88.	33.	12.0	5.8	
27	85.	31.	12.0	5.8	No
28	80.	30.	12.0	5.8	
29	77.	30.	12.0	5.8	Record
30	74.	27.	11.5	5.8	
31	69.	—	10.8	6.0	—
Total Sec. Ft. Days	*1,909.0	1,281.0	544.0	219.8	**156.9
Mean Sec. Ft.	*73.4	42.7	17.6	7.1	**6.9
Total Ac. Ft.	*3,788	2,542	1079	436	**331.

* 26 day record
** 24 day record

Total for period - 8, 176 acre-feet.

TABLE 6

Daily Discharge in Cubic Feet Per Second

LINVILLE CREEK AT OLD POWER HOUSE

May 6 to September 17, 1952

Day	May	June	July	August	September
1		4.1	2.9	2.8	2.8
2	No	3.9	2.9	2.8	2.8
3	Record	3.8	2.9	2.8	2.8
4		3.8	2.9	2.8	2.8
5		3.8	2.8	2.8	2.8
6	3.7	3.9	2.8	2.8	2.8
7	4.4	3.6	2.8	2.8	2.8
8	4.2	3.6	2.8	2.8	2.8
9	4.1	3.6	2.8	2.7	2.9
10	4.1	3.6	2.8	2.7	2.9
11	4.0	3.5	2.8	2.7	2.9
12	4.1	3.5	2.8	2.7	2.8
13	4.2	3.5	2.8	2.7	2.8
14	4.5	3.5	2.8	2.7	2.8
15	4.5	3.4	2.8	2.7	2.8
16	4.5	3.3	2.8	2.7	2.8
17	4.5	3.1	2.7	2.7	2.8
18	4.6	2.8	2.7	2.7	
19	4.5	2.9	2.7	2.7	
20	4.5	2.9	2.7	2.8	
21	4.5	2.9	2.7	2.8	
22	4.3	2.9	2.7	2.8	No
23	4.3	3.2	2.7	2.8	Record
24	4.3	3.2	2.8	2.7	
25	4.3	3.4	2.8	2.7	
26	4.3	3.1	2.8	2.7	
27	4.4	3.1	2.8	2.7	
28	4.4	3.1	2.8	2.7	
29	4.5	3.1	2.8	2.8	
30	4.4	3.1	2.8	2.8	
31	4.3	--	2.8	2.8	--
Total Sec. Ft. Days	*112.4	101.2	86.5	85.2	**47.9
Mean Sec. Ft.	*4.3	3.4	2.8	2.7	**2.8
Total Ac. Ft.	*223	201	172	169	**95

*26 day record
**17 day record

Total for period - 860 acre-feet.

TABLE 7

Daily Discharge in Cubic Feet Per Second
FRANKLIN CREEK ABOVE DIVERSIONS
May 5 to September 24, 1952

Day	May	June	July	August	September
1	NO	14.6	7.7	3.2	1.7
2		13.7	6.8	3.2	1.7
3	RECORD	12.7	6.6	3.1	1.9
4		12.3	6.1	3.1	1.9
5	14.6	12.3	6.0	2.9	1.9
6	15.6	12.7	5.7	2.9	2.0
7	16.0	12.0	5.4	2.7	2.0
8	16.6	11.6	5.3	2.5	2.0
9	15.6	11.6	5.0	2.5	2.2
10	15.8	11.8	4.9	2.4	2.5
11	16.8	10.9	5.7	2.4	3.9
12	16.2	10.0	5.9	2.4	3.3
13	17.6	9.2	5.0	2.3	2.8
14	17.4	8.7	4.7	2.1	2.7
15	17.2	8.0	4.6	2.0	2.7
16	18.1	7.0	4.3	2.0	2.5
17	18.7	6.4	4.3	2.0	2.4
18	18.7	6.1	4.2	2.0	2.2
19	17.9	6.3	4.1	2.0	2.3
20	19.1	6.4	3.9	2.0	2.4
21	19.1	6.8	3.8	1.9	2.4
22	18.3	6.4	3.7	1.9	2.5
23	18.1	8.2	3.5	1.9	2.5
24	17.9	8.5	3.2	1.9	2.5
25	17.6	9.3	3.1	1.9	
26	17.4	8.3	2.9	1.9	
27	17.0	8.3	2.9	1.8	NO
28	16.6	8.3	3.1	1.8	
29	16.2	8.7	3.2	1.7	RECORD
30	15.6	7.7	3.3	1.7	
31	15.6		3.3	1.8	
Total Sec. Ft. Days	*461.3	284.0	142.2	69.9	**56.9
Mean Sec. Ft.	* 17.1	9.5	4.6	2.3	** 2.4
Total Ac. Feet	*914	564	282	139	**113

* 27 day record
** 24 day record

Total for period = 2,012 acre-feet

TABLE 8

Daily Discharge in Cubic Feet Per Second
JOSEPH CREEK BELOW COUCH CREEK
May 2 to September 24, 1952

Day	May	June	July	August	September
1	No Record	30.	10.5	5.2	2.2
2	57.	29.	9.4	5.0	2.2
3	52.	26.	8.0	4.8	2.2
4	45.	26.	8.2	4.5	2.6
5	42.	26.	8.0	4.4	2.6
6	42.	29.	7.5	4.2	2.6
7	50.	26.	6.6	4.2	2.7
8	61.	26.	6.4	3.8	2.8
9	47.	28.	6.4	3.5	3.1
10	44.	25.	6.4	3.5	3.1
11	45.	21.	7.3	3.4	4.8
12	46.	19.5	7.3	3.2	3.7
13	48.	14.4	6.0	3.2	2.7
14	46.	14.0	5.2	1.8	***1.7
15	40.	12.0	4.8	***3.5	1.5
16	36.	11.0	4.5	4.0	1.4
17	36.	10.5	4.4	4.2	2.1
18	37.	10.0	3.8	4.2	2.2
19	41.	9.4	3.8	4.2	2.2
20	42.	9.6	3.0	4.0	2.2
21	38.	10.0	2.8	4.0	2.2
22	31.	9.0	2.6	4.0	2.1
23	28.	19.5	2.5	3.8	2.1
24	31.	16.0	2.4	3.8	2.0
25	33.	17.0	2.2	3.8	
26	33.	15.0	2.0	3.5	
27	34.	14.4	3.5	3.1	NO
28	34.	14.4	5.8	3.0	
29	32.	14.6	5.5	2.8	RECORD
30	30.	12.0	5.4	2.7	
31	30.	---	5.8	2.0	---
Total Sec. Ft. Days	*1,211.	544.3	168.0	115.3	** 59.1
Mean Sec. Ft. *	40.4	18.1	5.4	3.7	** 2.5
Total Ac. Ft.	*2,403	1,080	333	229	**117

* 30 day record
** 24 day record
*** Halls Meadow Reservoir turned on
**** Halls Meadow Reservoir turned off

Total for Period - 4,162 acre-feet.

TABLE 9

Daily Discharge in Cubic Feet Per Second
THOMS CREEK AT CEDARVILLE-ALTURAS HIGHWAY
April 23 to September 25, 1952

Day	April	May	June	July	August	September
1		116.	43.	14.0	3.9	1.3
2		103.	39.	13.5	3.8	1.3
3		93.	33.	10.5	3.5	1.3
4		88.	28.	9.5	3.0	1.2
5		85.	28.	8.8	2.9	1.2
6		84.	29.	7.7	2.7	1.3
7		81.	26.	7.5	2.8	1.3
8		81.	24.	7.6	1.6	1.4
9		76.	22.	7.7	1.3	1.7
10		77.	20.	7.5	1.5	2.0
11		82.	18.0	8.0	1.7	3.5
12	NO	82.	17.0	9.0	1.8	4.5
13		81.	14.5	7.0	2.1	2.9
14	RECORD	87.	12.0	6.6	2.0	2.4
15		82.	11.5	7.0	1.8	2.4
16		79.	10.5	7.2	1.7	2.1
17		81.	9.2	6.6	1.7	2.0
18		84.	9.0	6.5	1.8	1.5
19		85.	8.8	6.8	1.7	1.5
20		88.	8.6	6.2	1.4	1.5
21		75.	10.0	5.5	1.0	1.4
22		72.	8.5	5.0	1.1	1.4
23	114.	68.	18.5	4.6	1.3	1.4
24	131.	74.	25.0	4.6	1.4	1.4
25	145.	74.	26.0	4.5	1.4	1.4
26	155.	69.	18.5	4.1	1.6	
27	160.	62.	18.5	4.0	1.5	NO
28	160.	58.	22.0	5.5	1.5	
29	142.	58.	21.0	4.4	1.4	RECORD
30	115.	51.	18.5	3.8	1.4	
31	—	47.	—	4.0	1.4	—
Total Sec. Ft. Days	*1,122.0	2423.0	577.6	215.2	59.7	**45.3
Mean Sec. Ft.	* 140.3	78.2	19.9	7.0	1.9	** 1.8
Total Ac. Ft.	*2,226	4806	1,185	427	118	**90

* 8 day record
**25 day record

Total for period - 8, 852 acre-feet.

TABLE 10

Daily Discharge in Cubic Feet Per Second
OLEASON CREEK NEAR JONES RANCH
May 7 to August 20, 1952

Day	May	June	July	August
1		1.23	0.95	0.16
2	NO	1.16	0.95	0.16
3		0.95	0.89	0.16
4	RECORD	0.89	0.76	0.12
5		0.83	0.76	0.12
6		0.83	0.70	0.12
7	8.79	0.76	0.64	0.12
8	7.85	0.70	0.58	0.09
9	7.33	0.64	0.53	0.09
10	6.83	0.70	0.53	0.09
11	6.45	0.76	0.70	0.06
12	6.21	0.70	0.70	0.06
13	5.97	0.64	0.64	0.06
14	5.38	0.58	0.58	0.06
15	4.69	0.58	0.47	0.04
16	4.04	0.53	0.33	0.04
17	3.42	0.42	0.33	0.04
18	3.03	0.37	0.30	0.02
19	2.65	0.47	0.30	0.02
20	2.46	0.53	0.25	0.01
21	2.28	0.53	0.25	
22	2.37	0.53	0.20	NO
23	2.20	0.70	0.20	
24	2.11	1.23	0.20	FLOW
25	1.86	1.46	0.20	
26	1.61	1.38	0.20	
27	1.46	1.23	0.16	
28	1.46	1.38	0.16	
29	1.46	1.53	0.16	
30	1.31	1.38	0.16	
31	1.23		0.16	
Total Sec. Ft. Days	* 94.45	25.62	13.74	**1.64
Mean Sec. Ft.	* 3.8	0.9	0.44	**0.08
Total Ac. Feet	*187.	51	27	**3

* 25 day record
** 20 day record

Total for period = 268 acre-feet

TABLE II

Daily Discharge in Cubic Feet Per Second
PARKER CREEK AT FOGARTY RANCH
May 6 to September 25, 1952

Day	May	June	July	August	September
1		101.	47.	17.0	3.0
2	NO	95.	44.	16.0	3.0
3		89.	43.	14.0	3.0
4	RECORD	87.	40.	13.0	3.5
5		87.	39.	13.0	3.5
6	136.	92.	38.	12.5	3.5
7	157.	85.	35.	12.0	3.5
8	164.	79.	33.	11.5	3.5
9	146.	78.	33.	11.0	6.0
10	150.	78.	35.	10.0	6.5
11	153.	75.	30.	9.5	15.0
12	144.	68.	39.	9.0	18.0
13	133.	64.	36.	9.0	9.0
14	133.	58.	33.	8.0	7.5
15	132.	54.	27.	8.0	7.0
16	132.	49.	24.	8.0	6.5
17	130.	48.	23.	7.5	6.5
18	130.	43.	22.	7.5	6.5
19	129.	45.	20.	7.0	6.5
20	129.	43.	18.0	6.5	6.5
21	126.	48.	17.0	6.5	6.5
22	123.	44.	17.0	6.5	6.5
23	118.	85.	16.0	6.5	6.5
24	116.	116.	16.0	6.0	6.0
25	113.	123.	15.0	3.5	6.0
26	112.	90.	15.0	3.0	
27	112.	78.	16.0	2.5	
28	112.	86.	16.0	2.5	NO
29	109.	91.	16.0	2.5	
30	106.	73.	16.0	3.0	RECORD
31	104.		17.0	3.0	
Total Sec. Ft. Days	*3,249.0	2,252.0	542.0	255.5	**159.0
Mean Sec. Ft.	* 120.8	75.1	27.1	8.2	** 6.4
Total Ac. Feet	*6,633	4,467	1,670	507	**315

* 26 day record
** 25 day record

Total for period = 13,592 acre-feet

TABLE 12

Daily Discharge in Cubic Feet Per Second
SHIELDS CREEK BELOW PEPPERDINE RANCH
June 20 to September 24, 1952

Day	June	July	August	September
1		7.9	4.9	2.5
2		7.7	4.5	2.3
3		7.2	4.9	2.2
4		7.0	4.7	2.0
55		6.8	4.4	2.0
6		6.6	4.0	2.2
7		6.2	4.2	2.3
8		5.7	4.2	2.3
9		5.1	4.0	2.9
10		5.9	4.0	2.6
11		7.3	3.9	4.9
12	NO	8.5	3.9	3.2
13		6.2	3.5	2.5
14	RECORD	5.7	3.5	2.6
15		5.1	3.5	2.8
16		4.6	3.7	2.5
17		4.5	3.5	2.0
18		4.9	3.4	2.2
19		4.9	3.4	2.3
20	5.5	4.7	3.2	2.3
21	6.2	4.4	3.1	2.5
22	6.2	4.2	3.2	2.3
23	10.1	3.9	3.1	2.2
24	14.9	3.7	3.1	2.2
25	16.2	3.6	2.8	
26	10.5	3.6	2.2	
27	8.9	3.6	2.3	
28	10.1	4.1	2.3	NO
29	12.9	4.1	2.5	
30	9.2	4.1	2.5	RECORD
31		4.9	2.5	
Total Sec. Ft. Days	*110.7	166.7	108.9	**59.8
Mean Sec. Feet	* 10.1	5.4	3.5	** 2.5
Total Ac. Feet	**220	331	216	**119

* 11 day record
** 24 day record

Total for period = 886 acre-feet.

TABLE 13

Daily Discharge in Cubic Feet Per Second
PARKER CREEK ABOVE HIGHWAY 395
May 1 to September 24, 1952

Day	May	June	July	August	September
1	300.	59.	52.	20.0	1.0
2	270.	57.	39.	18.0	1.5
3	260.	54.	34.	17.0	3.0
4	220.	53.	32.	15.0	3.5
5	186.	44.	29.	12.5	4.0
6	150.	49.	31.	11.0	4.0
7	142.	50.	27.	10.0	4.5
8	160.	43.	21.	9.0	4.5
9	157.	40.	18.0	6.0	5.5
10	161.	42.	13.0	5.0	7.3
11	164.	40.	21.	4.0	14.0
12	160.	36.	33.	3.5	26.0
13	155.	32.	34.	3.0	15.0
14	143.	28.	24.	3.0	10.5
15	130.	24.	18.0	3.0	9.0
16	122.	18.0	15.0	3.0	8.5
17	120.	17.0	12.0	3.0	7.5
18	118.	14.0	12.5	2.5	7.5
19	114.	13.0	12.0	2.5	6.0
20	105.	12.5	11.0	2.0	4.5
21	90.	14.0	11.0	2.0	4.5
22	75.	16.0	11.0	2.5	5.0
23	73.	37.	10.5	2.5	5.0
24	75.	126.	9.5	2.5	5.0
25	73.	122.	9.5	3.0	
26	76.	97.	12.5	1.5	
27	73.	65.	15.0	1.0	NO
28	64.	75.	16.0	1.0	
29	65.	82.	17.0	1.0	RECORD
30	63.	71.	18.0	1.0	
31	59.		19.0	1.0	
Total Sec. Ft. Days	4,123.0	1,430.5	630.5	172.0	*166.8
Mean Sec. Ft.	133.0	47.7	20.6	5.6	* 6.9
Total Ac. Feet	8,165	2,838	1,267	341	*331

* 24 day record

Total for period - 12,942 acre-feet

TABLE 11

Daily Discharge in Cubic Feet Per Second
NORTH FORK OF PIT RIVER ABOVE K-L RANCH
May 1 to September 24, 1952

Day	May	June	July	August	September
1	250.	102.	44.	7.0	4.5
2	210.	87.	32.	6.5	4.5
3	200.	79.	27.	6.0	4.0
4	149.	68.	25.	5.5	4.0
5	137.	67.	22.	4.5	4.5
6	132.	90.	19.0	4.5	4.5
7	189.	85.	15.0	4.5	4.5
8	300.	73.	15.0	4.0	4.5
9	187.	66.	14.5	3.0	5.5
10	157.	75.	14.5	3.0	6.0
11	160.	63.	19.0	3.0	29.0
12	165.	61.	31.	3.0	22.0
13	164.	43.	20.0	3.0	11.0
14	157.	38.	17.0	3.0	8.0
15	139.	32.	14.0	2.5	8.0
16	142.	24.	13.0	2.5	7.5
17	137.	19.0	13.0	2.5	6.0
18	148.	18.0	11.0	2.5	5.0
19	151.	21.	10.5	2.5	4.0
20	159.	15.0	10.0	2.5	4.5
21	151.	23.	9.5	2.0	4.5
22	119.	21.	8.0	2.0	4.5
23	126.	26.	8.0	3.5	4.5
24	134.	37.	8.0	4.5	5.0
25	134.	58.	7.0	4.5	
26	130.	94.	6.0	5.0	
27	119.	65.	7.0	5.0	NO
28	119.	85.	8.0	5.0	
29	120.	90.	9.0	4.5	RECORD
30	104.	65.	6.5	4.5	
31	101.		7.5	4.5	
Total Sec. Ft. Days	4,790.0	1,690.0	471.0	120.5	*170.0
Mean Sec. Ft.	154.5	56.3	15.2	3.9	* 7.1
Total Ac. Feet	9,498	3,352	933	239	*337

* 24 day record

Total for period = 14,349 acre-feet