STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

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EARL WARREN, Governor

FRANK B. DURKEE, Director of Public Works

A. D. EDMONSTON, State Engineer

REPORT ON WATERMASTER SERVICE IN SEIAD CREEK WATERMASTER SERVICE AREA SISKIYOU COUNTY, CALIFORNIA 1951 SEASON

Sacramento, California
February, 1952

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 Seiad Creek Watermaster Service Area, Siskiyou County, California, 1951 Season".

/s/ L. C. JOPSON
Supervising Hydraulic Engineer

I, Gordon Zander, Assistant State Engineer, Division of Water Resources, Department of Public Works of the State of California, approve this "Report on Watermaster Service in Seiad Creek Watermaster Service Area, Siskiyou County, California, 1951 Season".

/s/ GORDON ZANDER
Assistant State 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 Seiad Creek Watermaster Service Area, Siskiyou County, California,1951 Season", as a peport of the Department of Public Works.

WITNESS my hand and the seal of the Department of Public Works of the State of California, this 25th day of April, 1952.

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

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INTRODUCTION

The Seiad Creek Watermaster Service Area was created by order of the Division of Water Resources under date of November 6, 1950 to include all of the water rights on Seiad Creek Stream System, as established by the decree entered in the Seiad Creek Adjudication Proceeding on April 3, 1950, Superior Court, Siskiyou County, No. 13774.

Watermaster service, as provided in Part 4 of Division 2 of the Water Code of California, was commenced for the 1951 season on July 1 and terminated on September 30. John T. Blair, Deputy Watermaster, administered the distribution of water in the service area under the supervision of P. E. Stephenson, Senior Hydraulic Engineer.

WATER SUPPLY

Precipitation

Data on precipitation, as compiled from observations made by the United States Weather Bureau station at Happy Camp, are set forth in Table 1.

Annual precipitation at this station for the period from October 1, 1950 to September 30, 1951 was about 167 per cent of normal. It is assumed that the relation of the annual precipitation to normal was approximately the same for the Seiad Valley area.

Stream Flow

An automatic water stage recorder was installed on Seiad Creek, above all diversions, on July 3, 1951 to provide a continuous record of stream discharge. The daily discharge at this station is tabulated in Table 2.

Intermittent discharge measurements were made on Seiad Creek below all diversions, on Canyon Creek and on Darky Creek. The estimated mean daily

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discharge computed from these measurements is set forth in Table 3.

DISTRIBUTION OF WATER

The water rights from Seiad Creek stream system are grouped in two divisions in the Seiad Creek decree. The divisions and the schedules defining the water rights therein are as follows:

Seiad Creek	Schedule 3
Canyon Creek	Schedule 4

Seiad Creek

Close regulation of diversions was necessary after the first week in July. During the first week in August the stream dropped to its dry season flow. Thereafter the available supply was only sufficient for the first and second priorities and about 25 per cent of the third priority rights. However, the owners of the lowermost diversion on the stream (Diversion 12) to which first, second and third priority rights attach, were unable to divert more than a small portion of the water to which they were entitled because of excessive seepage through the diversion dam. As a result, the owners of junior priority rights were enabled to divert full allotments. An average flow of about 1.1 cubic feet per second was passing Diversion 12 at all times.

Canyon Creek

The available supply was sufficient to supply all demands until the third week in July, after which time the total supply was used by the first priority groups for domestic use only.

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 Seiad Creek Watermaster Service Area, County of Siskiyou, State of California, for 1951" and which shall be included in the statement for said watermaster service area for 1952, are listed in the following tabulation:

Tract	Name of Water Right Owner Appearing in 1951 Statement	Name of Water Right Owner to Appear in 1952 Statement	Amount of Water c.f.s.
15-6	W. R. Shadburne	H. O. Oettel	0.06
15-7	W. R. Shadburne	Adrian L. Wigley, Nellie V. Wigley and Richard M. Wright	0.31
15-9	Arroyo Seco Gold Dredging Company and Yreka Gold Dredging Company	Fred C. Jensen and Marie Jensen and Dean Meckling and Maye Meckling	3.60

TABLE I

PRECIPITATION FOR SEASONAL YEAR 1950-1951
HAPPY CAMP, SISKIYOU COUNTY, CALIFORNIA

Month	Normal Precipitation Inches	1950-1951 Precipitation Inches
October	3.75	19.99
November	6.92	7.43
December	9.04	11.33
January	7.83	13.44
February	7.27	8.49
March	5.02	2.71
April	2.65	2.50
May	1.30	1.49
June	0.70	0.00
July	0.29	0.00
August	0.14	0.06
September	0.68	0.25
Total	45.59	67.69

TABLE 2

Daily Discharge in Cubic Feet Per Second
SEIAD CREEK ABOVE DIVERSIONS
July 3 to September 30, 1951

Day	July	August	September
1	No	4.2	3.5
2	Record	3.9	3.5
3	6.3	3.9	3.5
4	6.3	3.9	3.4
5	5.9	3.7	3.4
6	5.9	3.7	3.4
7	5.9	3.7	3.4
8	5.9	3.6	3.4
9	5.9	3.6	3.4
10	5.9	3.5	3.3
11	5.9	3.5	3.3
12	5.9	3.5	3.1
13	5.4	3.5	3.1
14	4.9	3.5	3.1
15	4.9	3.5	3.1
16	4.8	3.5	3.1
17	4.8	3.5	3.1
18	4.8	3.5	3.3
19	4.6	3.5	3.4
20	4.6	3.5	3.4
21	4.6	3.4	3.4
22	4.6	3.4	3.4
23	4.6	3.4	3.4
24	4.6	3.4	3.4
25	4.6	3.3	3.4
26	4.6	3.3	3.4
27	4.6	3.3	3.4
28	4.6	3.5	3.4
29	4.4	3.6	3.4
30	4.4	3.5	3.4
31	4.2	3.5	End of Record
Total Sec. Ft. Days	* 148.4	110.3	100.2
Mean Sec. Ft.	* 5.12	3.56	3.34
Total Ac. Ft.	* 294	219	199

Total for 90-day period - 712 acre-feet.

* 29-day Period.

TABLE 3

Discharge in Cubic Feet Per Second
SEIAD CREEK AND TRIBUTARIES
July 3 to September 24, 1951

Date	Seiad Creek above all diversions	Inflow: Canypn Creek	Inflow: Darky Creek	Inflow: Total Water Supply	Outflow: Seiad Creek below all diversions
July 3	6.3	*1.3	*0.2	7.8	1.6
10	5.9	1.2	0.1	7.2	1.1
18	4.8	1.1	0	5.9	1.1
24	4.6	0.4	0	5.0	0.9
Aug. 1	4.2	0.3	0	4.5	0.9
7	3.7	0.2	0	3.9	0.9
14	3.5	0.1	0	3.6	0.9
21	3.4	0.1	0	3.5	1.3
28	3.5	0.1	0	3.6	1.4
Sept. 10	3.3	0.1	0	3.4	1.2
24	3.4	0.1	0	3.5	1.3