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

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# REPORT ON WATERMASTER SERVICE IN SEIAD CREEK WATERMASTER SERVICE AREA

Siskiyou County, California

1952 SEASON

Sacramento, California
March, 1953

SUBMISSION TO, AND ADOPTION BY
DEPARTMENT OF PUBLIC WORKS

I, L. C. Jepson, Supervising Hydraulic Engineer, Division of Water Resources, Department of Public Works of the State of California, submit this "Report on Watermaster Service in Salad Creek Watermaster Service Area, Siskiyou County, California, 1952 Season".

/s/ L. C. JEPSON
Supervising Hydraulic Engineer

I, Harrison Smitherman, Supervising Hydraulic Engineer, Division of Water Resources, Department of Public Works of the State of California, approve this "Report on Watermaster Service in Salad Creek Watermaster Service Area, Siskiyou County, California, 1952 Season".

/s/ HARRISON SMITHERMAN
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 Salad Creek Watermaster Service Area, Siskiyou 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.

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

(SEAL)

## ORGANIZATION

Frank B. Durkee . . . . . Director of Public Works

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## INTRODUCTION

This is the second annual report on watermaster service in the Seiad Creek Watermaster Service Area, and covers the period of water distribution in 1952 beginning on July 1 and terminating on September 30.

The service area was created by order of the Division of Water Resources on November 6, 1950, to include all of the water rights as determined by the decree entered in the Seiad Creek Adjudication proceeding on April 3, 1950, Superior Court, Siskiyou County, No. 13774. Watermaster service has been provided during each irrigation season since the service area was created and annual reports have been 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, and Changes in Ownership of Lands and Water Rights. Following the text are tables presenting precipitation data at Happy Camp and water supply records at various locations within the area.

## WATER SUPPLY

### Precipitation

Data on precipitation, as compiled from records of 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, 1951 to September 30, 1952 was about 154 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 1, 1952 to provide a continuous record of stream discharge. The daily discharge at this station is tabulated in Table 2. An automatic water stage recorder was also installed at the weir in the Grant Lowden Ditch where the water delivered to Fred C. Jenson ranch is measured.

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

The diversion dam for the lowermost ditch on the stream was put in on August 12. Thereafter close regulation of the diversions was necessary. The flow of the stream gradually decreased until the end of September when sufficient water was available to satisfy 54 per cent of the third priority allotments. However, the owners of the lowermost diversion on the stream (Diversion 12) to which first, second and third priority rights attach, stated that they were receiving sufficient water to satisfy their needs for that period of the irrigation season and requested that owners of the fourth priority rights be allowed to receive their full allotments. Distribution of water was made on that basis throughout the season.

A summary of distribution of water for the season is shown in the following tabulation:

| Month | Distribution of water in per cent of priority allotments | | | |
|---|---|---|---|---|
| | 1 | 2 | 3 | 4 |
| July | 100 | 100 | 100 | 100 |
| August | 100 | 100 | 92 | 100 |
| September | 100 | 100 | 44 | 100 |

Canyon Creek

The available water supply was sufficient to supply all demands throughout the season.

## 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 1952" and which shall be included in the statement for said watermaster service area for 1953, are listed in the following tabulation:

| Tract | 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. |
|---|---|---|---|
| 15-3 | Burstad, Marshall E. | Schwartz, Stanley F. and Schwartz, Frances J. | 1.70 |

TABLE 1

PRECIPITATION AT HAPPY CAMP
SISKIYOU COUNTY, CALIFORNIA
1951-52
Elevation 1090 feet

| Month | Normal Precipitation Inches | 1951-1952 Precipitation Inches |
|---|---|---|
| October | 3.75 | 6.49 |
| November | 6.92 | 10.82 |
| December | 9.04 | 16.91 |
| January | 7.83 | 17.04 |
| February | 7.27 | 8.20 |
| March | 5.02 | 5.96 |
| April | 2.65 | 1.52 |
| May | 1.68 | 0.99 |
| June | 0.70 | 2.54 |
| July | 0.29 | 0.27 |
| August | 0.14 | 0.10 |
| September | 0.68 | 0.06 |
| Total | 45.97 | 70.90 |

Compiled from records of the United States Weather Bureau.

TABLE 2

Daily Discharge in Cubic Feet Per Second
SKIAD CREEK ABOVE ALL DIVERSIONS
July 1 to September 24, 1952

| Day | June | July | August | September |
|---|---|---|---|---|
| 1 | NO | 13.3 | 7.4 | 4.6 |
| 2 | RECORD | 12.9 | 6.9 | 4.6 |
| 3 | | 12.6 | 6.7 | 4.6 |
| 4 | | 12.4 | 6.4 | 4.6 |
| 5 | | 12.1 | 6.4 | 4.6 |
| 6 | | 11.9 | 6.4 | 4.4 |
| 7 | | 11.5 | 6.4 | 4.2 |
| 8 | | 11.2 | 6.4 | 3.9 |
| 9 | | 11.0 | 6.4 | 4.6 |
| 10 | | 10.7 | 6.4 | 4.7 |
| 11 | | 10.1 | 6.4 | 4.6 |
| 12 | | 9.9 | 6.2 | 4.6 |
| 13 | | 9.6 | 5.9 | 4.7 |
| 14 | | 9.4 | 5.9 | 4.6 |
| 15 | | 8.9 | 5.9 | 4.6 |
| 16 | | 8.6 | 5.9 | 4.4 |
| 17 | | 8.4 | 5.5 | 4.4 |
| 18 | | 8.1 | 5.4 | 4.4 |
| 19 | | 8.1 | 5.4 | 4.4 |
| 20 | | 7.9 | 5.2 | 4.4 |
| 21 | | 7.9 | 5.2 | 4.2 |
| 22 | | 7.9 | 5.2 | 4.2 |
| 23 | | 7.6 | 5.2 | 4.2 |
| 24 | | 7.6 | 4.9 | 4.2 |
| 25 | | 7.4 | 4.7 | |
| 26 | | 7.4 | 4.7 | |
| 27 | | 7.1 | 4.7 | NO |
| 28 | | 7.1 | 4.6 | |
| 29 | | 6.9 | 4.6 | RECORD |
| 30 | | 7.9 | 4.6 | |
| 31 | | 7.9 | 4.6 | |
| Total Sec. Ft. Days | | 291 | 183 | 107 |
| Mean Sec. Ft. | | 9.4 | 5.9 | 4.4 |
| Total Ac. Feet | | 577 | 363 | 212 |

Total for period = 1,152 acre-feet

TABLE 3

Discharge in Cubic Feet Per Second
SEIAD CREEK AND TRIBUTARIES
July 1 to September 24, 1952

| Month | Inflow: Seiad Creek above all diversions | Inflow: Canyon Creek | Inflow: Darby Creek | Inflow: Total water supply | Outflow: Seiad Creek below all diversions |
|---|---|---|---|---|---|
| July | 9.4 | 3.2 | 0.3 | 12.6 | Surplus |
| Aug. | 5.9 | 0.8 | 0.1 | 6.8 | 0.5 |
| Sept. | 4.4 | 0.5 | 0 | 4.9 | 0.5 |