

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

REPORTS OF THE
DIVISION OF WATER RESOURCES
EDWARD HYATT, STATE ENGINEER

REPORT ON
WATER MASTER SERVICE
ON
FRANKLIN CREEK
MODOC COUNTY, CALIFORNIA
FOR THE SEASON OF 1938

BY

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Water Master Assistant

Sacramento, California
March 1940

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TABLES:

1. Precipitation Data.
2. Continuous Records of Daily Discharge in Cubic feet per Second of Franklin Creek above all Diversions for the period May 1, to September 18, 1938.
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PLATE:

1. Hydrographs of Franklin Creek showing Water Supply above all Diversions in 1932 and 1938.

March 15, 1941

LETTER OF TRANSMITTAL

Mr. Harold Conkling
Deputy State Engineer
Sacramento, California

Dear Sir:

Attention: Mr. Gordon Zander
Supervising Hydraulic Engineer

A report covering the water distribution work of the water master on Franklin Creek, Modoc County, California during the period May 1 to September 18, 1938, is transmitted herewith.

The methods and practices followed in the distribution of the water of Franklin Creek in accordance with the provisions of the decree in the case of C. E. Crowder, et al., vs. P. Indart, et al. are described. The results obtained under this distribution are also presented.

Respectfully submitted,

J. VICTOR SCAMMON

Water Master Assistant

INTRODUCTION

Water master service was conducted in the Franklin Creek Water Master District during the 1938 season under the provisions of Sections 37 and 37a of the Water Commission Act. The decree in the case of C. E. Crowder, et al., vs. P. Indart, et al. dated September 8, 1933, was used as the basis of the water distribution.

The field work was commenced on May 1, 1938 by W. A. Alexander, who acted as water master until June 19, 1938. On June 19, 1938, J. Victor Scammon, assumed the duties of Water master and continued as such until the termination of the irrigation season on September 18, 1938. Mr. J. W. McPartland assisted Mr. Scammon to become familiar with the territory.

DISCUSSION OF RESULTS FOR THE SEASON

The monthly and seasonal precipitation at Lakeview, Oregon, for the period of water master service is tabulated in Table 1. The mean precipitation for the station from 1884 to 1938 is also shown, as well as a tabulation of the precipitation in 1937-1938 in per cent of the total mean. The seasonal precipitation in 1937-1938 was 151.3 per cent of the total mean.

Table 2 is a tabulation of the daily discharge in cubic feet per second of Franklin Creek at the register station above all diversions.

Table 3 is a tabulation of the per cent of allotments delivered in each of the priority classes during the periods indicated. Total deliveries, per cent of total allotments delivered, total water supply and per cent of channel accretion or loss are also included in the table.

The water supply of Franklin Creek during the 1938 season produced sufficient water for both first and second priorities throughout the season, and for third and fourth. Water drained from the irrigated land and flowed into Pit River until after June 15th. One-half of the third priority water allotted to the Crowder Ranch was sufficient to reach the ranch and served to irrigate a little pasture and for stock water. The Crowder water was delivered through the Dawson North Ditch for the season of 1938.

During the haying season certain users in the second priority class turned off their water, the released water was used by those who were in a position to utilize it.

The Lee and Dawson Ranches rotated the use of their respective amounts of water from about April 30th to the end of the season.

The run-off of Franklin Creek in 1938 has been plotted as a hydrograph on the plate at the end of this report. The runoff in 1932 and the decreed allotments of water have also been plotted on the same plate.

VIOLATION OF DECREE OR CONTROVERSIES

There were no disputes over distribution of water of Franklin Creek during the 1938 season.

RECOMMENDATION

There are a number of headgates and measuring devices which should be installed in order to facilitate the distribution of water whenever the necessary time and material are available.

TABLE 3

AVERAGE WATER DELIVERIES ON FRANKLIN CREEK
COMPARED WITH ALLOTMENTS - 1938 SEASON

Period	Per Cent of Allotments Delivered					Total	Average Flow	Per Cent Channel	
	1st Priority	2nd Priority	3rd Priority	4th Priority	Total				Above Diver-sions
:5/1 to 5/10	: 100	: 100	: 100	: 100	: 100	: 100	: 18.1	: 19.1	: -5
:5/11 to 5/20	: 100	: 100	: 100	: 100	: 100	: 100	: 16.5	: 17.5	: -6
:5/21 to 5/30	: 100	: 100	: 100	: 100	: 100	: 100	: 14.5	: 15.4	: -6
:5/31 to 6/9	: 100	: 100	: 87	: 0	: 72	: 72	: 9.0	: 9.6	: -6
:6/10 to 6/19	: 100	: 100	: 60	: 0	: 57	: 57	: 6.7	: 7.0	: -6
:6/20 to 6/29	: 100	: 100	: 38	: 0	: 41	: 41	: 4.8	: 5.1	: -6
:6/30 to 7/9	: 100	: 100	: 21	: 0	: 29	: 29	: 3.4	: 3.7	: -8
:7/10 to 7/19	: 100	: 100	: 14	: 0	: 24	: 24	: 2.8	: 3.1	: -10
:7/20 to 7/29	: 100	: 100	: 9	: 0	: 21	: 21	: 2.4	: 2.7	: -10
:7/30 to 8/8	: 100	: 100	: 7	: 0	: 19	: 19	: 2.2	: 2.4	: -10
:8/9 to 8/18	: 100	: 100	: 6	: 0	: 18	: 18	: 2.1	: 2.3	: -10
:8/19 to 8/28	: 100	: 100	: 5	: 0	: 17	: 17	: 2.0	: 2.2	: -10
:8/29 to 9/7	: 100	: 100	: 5	: 0	: 17	: 17	: 2.0	: 2.2	: -10
:9/8 to 9/18	: 100	: 100	: 5	: 0	: 17	: 17	: 2.0	: 2.2	: -10

1st Priority Allotments - 0.175 cubic feet per second.
 2nd Priority Allotments - 1.46 cubic feet per second.
 3rd Priority Allotments - 8.49 cubic feet per second.
 4th Priority Allotments - 1.53 cubic feet per second.
 Total - 11.655 cubic feet per second.

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BY
W. A. Alexander
Water Master Assistant

Sacramento, California
December 30, 1937