STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

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

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# REPORT ON

# WATER MASTER SERVICE

# ON

# FRANKLIN CREEK

# MODOC COUNTY, CALIFORNIA

# FOR THE SEASON OF 1936

By

J. W. Hartland
Deputy Water Master

Sacramento, California
December, 1936

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EDWARD HYATT, STATE ENGINEER
CHIEF OF DIVISION

CULBERT L. OLSON
GOVERNOR OF CALIFORNIA

FRANK W. CLARK
DIRECTOR

STATE OF CALIFORNIA

# Department of Public Works

SACRAMENTO

DIVISION OF WATER RESOURCES
401 PUBLIC WORKS BUILDING

December 16, 1939

Mr. Harold Conkling
Deputy State Engineer
Sacramento, California

Attention: Mr. Gordon Zander
Supervising Hydraulic Engineer

Dear Sir:

A report covering the water distribution work of the water master on Franklin Creek, Modoc County, California, during the period from April 16th to September 30, 1936, is transmitted herewith.

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

Respectfully submitted,

J. [illegible] McCartland
Deputy Water Master

## ORGANIZATION

| | |
|---|---|
| Earl Lee Kelly | Director of Public Works |
| Edward Myatt | State Engineer |
| Harold Conkling | Deputy State Engineer |

GORDON ZANDER

Supervising Hydraulic Engineer

| | |
|---|---|
| T. Russel Simpson | Senior Hydraulic Engineer |
| H. E. von Bergen | Assistant Hydraulic Engineer |
| J. W. McPartland | Deputy Water Master |

## DISCUSSION OF RESULTS FOR THE SEASON

The monthly and seasonal precipitation at Lakeview, Oregon, is tabulated in Table 1. This station furnishes the only available record of precipitation in the Goose Lake Valley. The mean precipitation for the station from 1884 to 1936 is also shown as well as that for 1935-36 together with the percentages based on the means. The seasonal precipitation for 1935-36 was normal.

Table 2 is a tabulation of the flow in Franklin Creek, measured above all diversions. An automatic water-stage recorder furnished the continuous record of the stream stages throughout the entire season.

Table 3 is a tabulation of the per cent of allotments delivered in each of the four priority classes during the periods indicated, together with the average flow for each ten day period.

TABLE 1

MONTHLY PRECIPITATION DATA AT LAKEVIEW, OREGON

| Season | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Seasonal |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1927-1928 | 0.61 | 0.98 | 4.04 | 0.71 | 1.14 | 1.06 | 2.22 | 0.95 | 0.21 | 0.34 | T | 0.10 | 12.36 |
| 1928-1929 | .11 | .39 | 1.21 | .64 | 1.00 | .50 | .69 | 2.04 | .02 | 1.31 | 0.00 | .02 | 7.93 |
| 1929-1930 | .16 | .45 | T | 3.22 | 1.69 | 1.18 | 1.00 | .90 | 1.11 | .21 | T | .51 | 10.48 |
| 1930-1931 | .85 | .29 | 1.02 | .07 | .38 | 1.10 | 1.39 | .22 | .19 | .89 | T | T | 6.40 |
| 1931-1932 | .26 | 1.32 | .96 | 1.60 | 1.26 | .39 | 1.89 | 2.33 | 1.17 | .98 | T | .02 | 12.18 |
| 1932-1933 | .00 | .44 | .39 | 1.01 | 1.53 | .70 | 1.04 | .96 | 1.36 | .59 | .27 | T | 8.29 |
| 1933-1934 | .24 | 1.48 | .01 | 1.14 | 1.31 | 1.60 | 1.50 | 1.06 | 1.81 | 1.20 | .00 | T | 11.35 |
| 1934-1935 | .60 | .97 | 3.09 | 1.35 | 1.63 | 1.16 | 1.38 | 3.36 | .99 | 0.33 | 0.34 | 0.00 | 15.20 |
| 1935-1936 | T | .95 | .56 | 1.73 | 4.30 | 2.78 | .78 | 1.06 | 1.15 | .52 | .00 | .16 | 13.99 |
| Mean 1884-1936 | 0.64 | 0.87 | 1.66 | 1.71 | 1.93 | 1.77 | 1.41 | 1.17 | 1.26 | 0.91 | 0.33 | 0.25 | 13.91 |
| 1935-1936 In Per Cent Of Total Mean | 0.0 | 6.8 | 4.0 | 12.4 | 31.0 | 20.0 | 5.6 | 7.6 | 8.3 | 3.7 | 0.0 | 1.2 | 100.6 |

TABLE 3

AVERAGE WATER DELIVERIES ON FRANKLIN CREEK
COMPARED WITH ALLOTMENTS - 1936

| Period | Per Cent Of Allotments Delivered Priority 1st | 2nd | 3rd | 4th | Total | Average Flow Above Diversions c.f.s. |
|---|---|---|---|---|---|---|
| 4/16 - 4/20 | 100 | 100 | 100 | 100 | 174 | 20.0 |
| 4/21 - 4/30 | 100 | 100 | 100 | 100 | 131 | 15.3 |
| 5/1 - 5/10 | 100 | 100 | 100 | 100 | 111 | 12.9 |
| 5/11 - 5/20 | 100 | 100 | 97 | 0 | 85 | 9.9 |
| 5/21 - 5/31 | 100 | 100 | 62 | 0 | 59 | 6.9 |
| 6/1 - 6/10 | 100 | 100 | 38 | 0 | 42 | 4.9 |
| 6/11 - 6/20 | 100 | 100 | 28 | 0 | 34 | 4.0 |
| 6/21 - 6/30 | 100 | 100 | 10 | 0 | 21 | 2.5 |
| 7/1 - 7/10 | 100 | 100 | 9 | 0 | 21 | 2.4 |
| 7/11 - 7/20 | 100 | 100 | 8 | 0 | 20 | 2.3 |
| 7/21 - 7/31 | 100 | 100 | 7 | 0 | 19 | 2.2 |
| 8/1 - 8/10 | 100 | 100 | 2 | 0 | 15 | 1.8 |
| 8/11 - 8/20 | 100 | 100 | 3 | 0 | 16 | 1.9 |
| 8/21 - 8/31 | 100 | 100 | 2 | 0 | 15 | 1.80 |
| 9/1 - 9/10 | 100 | 100 | 2 | 0 | 15 | 1.80 |
| 9/11 - 9/20 | 100 | 100 | 2 | 0 | 15 | 1.80 |
| 9/21 - 9/30 | 100 | 100 | 2 | 0 | 15 | 1.80 |

1st Priority Allotment - 0.175 c.f.s.
2nd Priority Allotment -- 1.46 c.f.s.
3rd Priority Allotment - 8.49 c.f.s.
4th Priority Allotment - 1.53 c.f.s.