STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

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

REPORT ON WATER MASTER SERVICE ON NEW PINE CREEK MODOC COUNTY, CALIFORNIA FOR THE SEASON OF 1935

By

J. W. McPartland
Deputy Water Master

Sacramento, California
December, 1935

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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 6, 1939

Mr. Harold Conkling
Deputy State Engineer
Sacramento, California

Attention: Mr. Gordon Zander
Supervising Hydraulic Engineer

Dear Sir:

There is submitted herewith a report covering the water master service on New Pine Creek in Modoc County, California for the 1935 season.

Runoff records, precipitation records and other pertinent data are included in this report.

Respectfully submitted,

J. N. McFartland
Deputy Water Master

ORGANIZATION

Frank W. Clark	Director of Public Works
Edward Hyatt	State Engineer
Harold Conkling	Deputy State Engineer

GORDON ZANDER

Supervising Hydraulic Engineer

T. Russel Simpson	Senior Hydraulic Engineer
J. W. McFartland	Deputy Water Master

GENERAL DESCRIPTION OF WORK

Water master service on New Pine Creek during the 1935 season was conducted in accordance with the decree in the case of "Edward Keller, et al vs. Anna Jensen, et al."

Water master service commenced on April 1st, and extended over the period ending September 30, 1935. Such service was administered by H. E. von Bergen, Deputy Water Master, from April 1st to July 15th, inclusive; and J. W. McFartland, Deputy Water Master, from July 16th to September 30th, inclusive. T. Russel Simpson was Supervising Water Master.

The water supply to the end of June was sufficient to fill all requirements. The runoff during the first two weeks of April, was low but cold weather made it unnecessary for any extended irrigation. Beginning on April 13th, the flow was in excess of full allotments and so remained until June 28th. From this last date the flow gradually declined until by the end of the season only about 15 per cent of the total allotments was available. The excess of water during the growing season produced good crops.

DISCUSSION OF RESULTS FOR THE SEASON

Table 1 is a record of precipitation at Lakeview, Oregon. This station keeps the only official record of rainfall anywhere in Goose Lake Valley. The mean precipitation for the period 1884 to 1935 is shown along with the monthly data for the 1934-35 season.

Table 2 is a record of the daily discharge at the recorder station below the Schroeder Ranch. Here, an automatic water stage recorder is maintained.

Table 3 is a tabulation of the estimated flow above all diversions. It is a summation of the measured flow, shown in Table 2, and the estimated diversions to the Schroeder Ranch.

Table 4 is a tabulation of the per cent of allotments delivered to each priority class during the periods indicated. The allotments are portioned in accordance to two schedules. The first, operating from April 1st to June 30th, is on a continuous flow basis and has but a single priority classification. The second, operating from July 1st to September 30th, has four priority classifications. Table 4 does not include the special allotments to Cook and Butler, taken through the Surplus Ditch.

RECOMMENDATIONS

It is recommended that the following be accomplished:

Headgate and measuring device in the Surplus Ditch, Green Upper Ditch and Green Lower Ditch.

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
Mean 1894-1935	0.65	0.87	1.48	1.71	1.68	1.75	1.42	1.17	1.26	0.92	0.34	0.25	13.90
1934-1935 In Percent of Total Mean	4.3	7.0	22.2	9.7	11.7	8.3	9.9	24.2	7.1	2.4	2.4	0.0	109.2

TABLE 4

AVERAGE WATER DELIVERIES ON NEW PINE CREEK
COMPARED WITH ALLOTMENTS - 1935

Period	Percent of Allotment Delivered					Average Flow Above Diversions
	Priority					
	1st	2nd	3rd	4th	Total	c.f.s.
4/1 - 4/10	35				35	7.9
4/11- 4/20	100				100	34.6
4/21- 4/30	100				100	36.4
5/1 - 5/10	100				100	42.4
5/11- 5/21	100				100	53.6
5/21- 5/31	100				100	51.1
6/1 - 6/10	100				100	47.0
6/11- 6/20	100				100	38.8
6/21- 6/30	100				100	24.8
7/1 - 7/10	100	100	100	41	74	16.46
7/11- 7/20	100	100	79	0	51	11.37
7/21- 7/31	100	100	35	0	40	8.8
8/1 - 8/10	100	99	0	0	30	6.69
8/11- 8/20	100	87	0	0	28	6.24
8/21- 8/31	100	56	0	0	23	5.04
9/1 - 9/10	100	36	0	0	19	4.31
9/11- 9/20	100	26	0	0	18	3.92
9/21- 9/30	100	16	0	0	16	3.53

Priorities:

April 1 to June 30. 1st, 22.18 c.f.s.

July 1 to Sept. 30	1st	2.92
	2nd	3.81
	3rd	5.84
	4th	9.61