DEPARTMENT OF PUBLIC WORKS

STATE OF CALIFORNIA

REPORTS OF THE

DIVISION OF WATER RESOURCES

EDWARD HYATT, State Engineer

REPORT ON WATER MASTER SERVICE ON NEW PINE CREEK MODOC COUNTY, CALIFORNIA 1934 SEASON

LESLIE C. JOHNSON, Water Master

Sacramento, California

March 1935

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TABLES:

1. Precipitation Data.
2. Continuous Records of Daily Discharge in Cubic Feet per Second of New Pine Creek below Schroeder's for the period April 1st to September 24th, 1934.
3. Average Water Deliveries on New Pine Creek Compared with Allotments - 1934 Season.
4. Estimated Crop Yields on Typical Lands Irrigated from New Pine Creek - 1934.

PLATES:

Hydrographs of New Pine Creek showing Water Supply above all Diversions in 1932 and 1934.

March 1, 1935

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 distribution work of the water master in the New Pine Creek Water Master District, Modoc County, California, during the period from April 1st to September 24, 1934.

The report describes the methods and practices followed in the distribution of the waters of New Pine Creek in accordance with the provisions of the decree in the case of Edward E. Keller et al., vs. Anna Jensen, et al., and presents the results obtained under the distribution.

Respectfully submitted,

[illegible]
Water Master

ORGANIZATION

Earl Lee Kelly	Director of Public Works
Edward Hyatt	State Engineer
Harold Conkling	Deputy State Engineer

GORDON ZANDER

Supervising Hydraulic Engineer

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

GENERAL DESCRIPTION OF WORK

Water master service was continued in the New Pine Creek water master District in 1934 in accordance with the provisions of Section 37a of the Water Commission Act. The service was commenced for the season on April 1st and terminated on September 24, 1934.

Mr. Leslie C. Jopson, Water Master, and Mr. J. W. McPartland, Deputy Water Master, handled the water distribution at different times during the season in connection with other water distribution work in Goose Lake and Surprise Valleys.

All the ditches on New Pine Creek were opened during the 1934 season. The shortage of water prevented the customary usage in nearly all cases but all parties received some water.

The California Ditch was closed for a few days in April for cleaning. The available water was turned to the Green Ranch while the cleaning was in progress.

A rotation schedule was put into effect on the California Ditch on May 14 and was continued until about June 15th. The rotation was in groups with the Butler and Perkin Ranches, the Green and Vernon Ranches, and the Cundiff, Converse, Lawson, Robnett, Cloud and Steward Ranches rotating a certain proportion of the water, according to the combined water rights in the group, among themselves. Thus dividing the water into three rotation heads.

The Mill operated from July 13th to 20th, inclusive, drying the California Ditch, except on Sunday, the 15th. On the 20th the water was again divided according to the irrigation rights. On August

14th the mill began to operate part time and about two-thirds of the water was diverted by the Mill Ditch until September 4th. Thereafter the California Ditch received no water.

The users below the Mill Tail Ditch started a rotation schedule on July 26th to permit the various users to irrigate their gardens. An effort was made to deliver stock water continuously to the Reid and Green Ranches. Great difficulty was experienced in making any deliveries to the Robnett and Heryford Ranches due to the excessive losses in the creek channel.

DESCRIPTION OF RESULTS FOR SEASON

In Table 1 is presented a monthly and seasonal record of the precipitation at Lakeview, Oregon, during the period of water master service in Goose Lake Valley. The 1933-34 precipitation is compared with the mean for the period of record.

Table 2 is a tabulation of the flow of Pine Creek below the Schroeder Ranch in cubic feet per second.

Table 3 is a tabulation of the per cent of allotments delivered to each priority class during the periods indicated. The per cent of total allotments delivered are also shown. The special rights of the Cook and Butler Ranches are not included in the table. They were, however, allowed to divert according to their decreed rights.

Table 4 is a tabulation of crop yields on typical ranches irrigated from New Pine Creek.

A division box was built in the Hamersley and McCrary Ditch to divide the water between Hamersley on one side and McCrary and Wendt on the other.

CONTROVERSIES

No controversies of consequence occurred in 1934.

RECOMMENDATIONS

The recommendations made in 1933 should be considered.

FINANCIAL STATEMENT

The funds collected from the water users in the New Pine Creek water master District, to defray the expenses of water master service, are placed to the credit of the New Pine Creek Water Master District fund by the State Treasurer. The State contributes an amount to the fund equal to that contributed by the water users. These funds are then drawn on by the Division of Water Resources to meet the costs of Water Master service.

FINANCIAL STATEMENT

NEW PINE CREEK WATER DISTRICT FUND

JANUARY 1, 1935

RECEIPTS

Balance as of January 1, 1934	$ 92.72	
Contributed by State in 1934	300.00	
Contributed by Taxpayers(Jan.1/34 to Jan.1/35)	221.01	
	613.73	$613.73

DISBURSEMENTS
(Jan.1/34 to Jan.1/35)

Water Master Compensation	$270.02	
Water Master Travel Expense	133.35	
Contingencies		
	403.37	403.37
BALANCE		210.36

TABLES

TABLE 1

PRECIPITATION DATA
AVERAGE AT LAKEVIEW, OREGON

Season	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Seasonal
1927-28	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
1928-29	.11	.39	1.21	.64	1.00	.50	.69	2.04	.02	1.31	0.00	.02	7.93
1929-30	.16	.45	T	3.22	1.69	1.18	1.05	.90	1.11	.21	T	.51	10.48
1930-31	.85	.29	1.02	.07	.38	1.10	1.39	.22	.19	.89	T	T	6.40
1931-32	.26	1.32	.96	1.60	1.26	.39	1.89	2.33	1.17	.98	T	.02	12.18
1932-33	.00	.44	.39	1.01	1.53	.70	1.04	.96	1.36	.59	.27	T	8.29
1933-34	.24	1.48	.01	1.14	1.31	1.60	1.50	1.06	1.81	1.20	.00	T	11.35
Mean 1884-1934	.65	.86	1.65	1.72	1.88	1.76	1.43	1.12	1.26	.94	.34	.25	13.86
1933-1934 in per cent of total mean	1.7	10.7	.1	8.2	9.5	11.5	10.8	7.7	13.1	8.7	.0	.0	82.0

TABLE 3

AVERAGE WATER DELIVERIES ON NEW PINE CREEK COMPARED WITH ALLOTMENTS - 1934

Period	Per Cent of Allotment Delivered					Average Flow at Recorder Station
	1st Priority	2nd Priority	3rd Priority	4th Priority	Total	c. f. s.
4-1 to 4-10	57	0	0	0	57	12.53
4-11 to 4-20	71	0	0	0	71	15.81
4-21 to 4-30	59	0	0	0	59	13.04
5- 1 to 5-10	55	0	0	0	55	12.24
5-11 to 5-20	48	0	0	0	48	10.66
5-21 to 5-31	37	0	0	0	37	8.25
6- 1 to 6-10	35	0	0	0	35	7.70
6-11 to 6-20	28	0	0	0	28	6.26
6-21 to 6-30	22	0	0	0	22	4.85
7- 1 to 7-10	100	24	0	0	17	3.84
7-11 to 7-20	100	11	0	0	15	3.35
7-21 to 7-31	100	3	0	0	14	3.04
8- 1 to 8-10	86	0	0	0	11	2.50
8-11 to 8-20	80	0	0	0	11	2.34
8-21 to 8-31	73	0	0	0	10	2.12
9- 1 to 9-10	66	0	0	0	9	1.94
9-11 to 9-20	75	0	0	0	10	2.19

Priorities:

April 1st to June 30th - 1st 22.18 c.f.s.

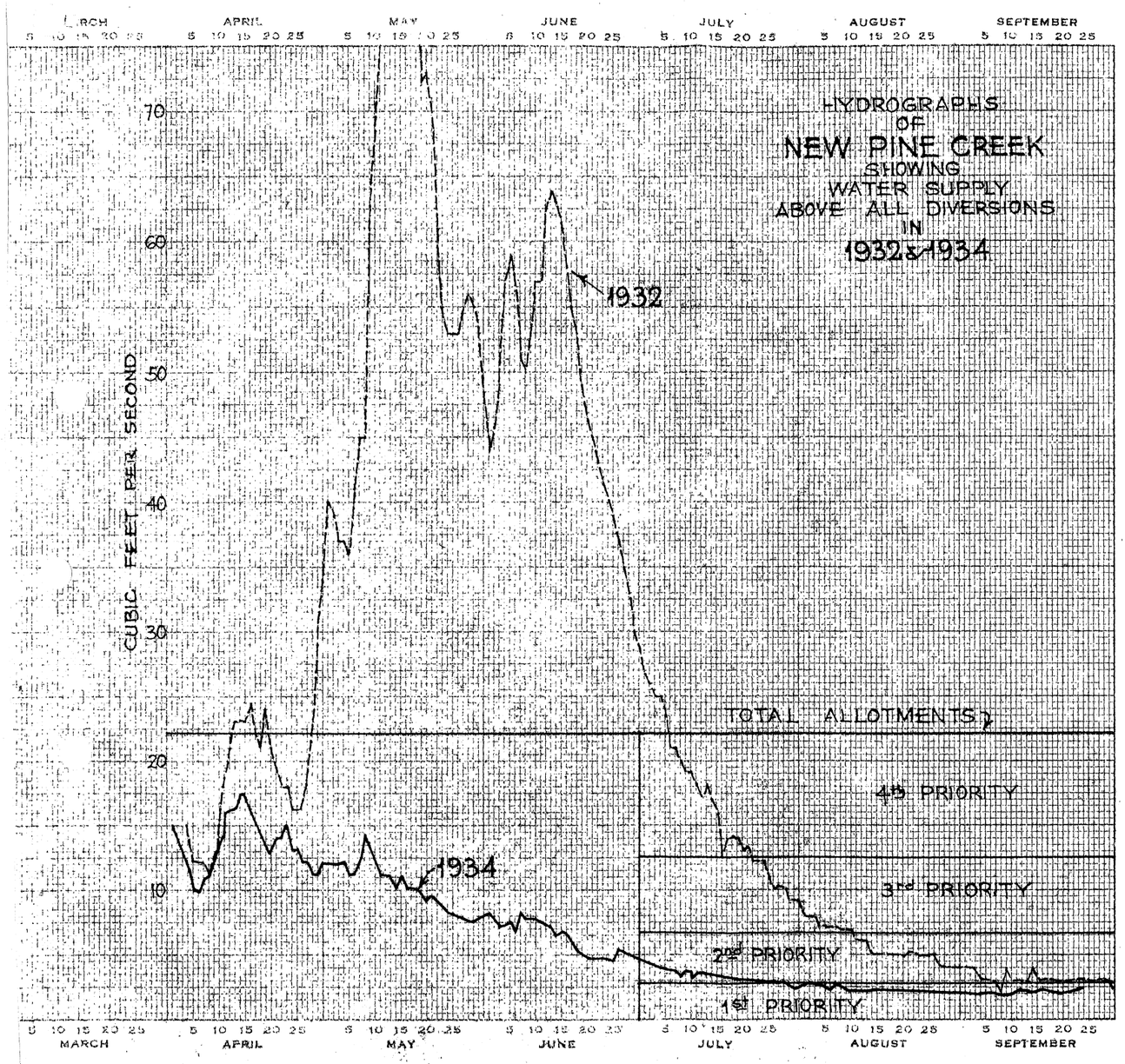
July 1st to September 20 - 1st 2.92
2nd 3.81
3rd 5.84
4th 9.61

TABLE 4

ESTIMATED CROP YIELDS ON TYPICAL LANDS
IRRIGATED FROM NEW PINE CREEK - 1934

Owner	Crop	Acres	Total Yield		Yield per Acre	
			Tons	Sacks	Tons	Sacks
F. M. Green	Alfalfa Hay	50.0	50		1.0	
	Meadow Hay	15.0	25		1.7	
	Barley	20.0		150		7
	Rye	15.0		106		7
	Wheat	120.0		600		5
F. Steward	Alfalfa Hay	4.5	6		1.3	
	Meadow Hay	7.0	0			

PLATES


HYDROGRAPHS
OF
NEW PINE CREEK
SHOWING
WATER SUPPLY
ABOVE ALL DIVERSIONS
IN
1932 & 1934
MARCH
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
CUBIC FEET PER SECOND
70
60
50
40
30
20
10
1932
1934
TOTAL ALLOTMENTS
4th PRIORITY
3rd PRIORITY
2nd PRIORITY
1st PRIORITY