DEPARTMENT OF PUBLIC WORKS

STATE OF CALIFORNIA

REPORTS OF THE

DIVISION OF WATER RESOURCES

EDWARD HYATT, State Engineer

REPORT ON

WATER MASTER SERVICE

ON

CEDAR CREEK

MODOC COUNTY, CALIFORNIA

1934 SEASON

By LESLIE C. JOPSON, Water Master

Sacramento, California

March 1935

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STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
SACRAMENTO

DIVISION OF WATER RESOURCES
401 PUBLIC WORKS BUILDING

EDWARD HYATT, STATE ENGINEER
CHIEF OF DIVISION

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 Cedar Creek Water Master District, Modoc County, California, during the period from March 21st to April 30, 1934.

The report describes the methods and practices followed in the distribution of the waters of Cedar Creek in accordance with the provisions of the decrees in the cases of W. E. Hill, et al., vs. Herman Acty, et al., and D. H. Lighty vs. John R. Cook, et al., and presents the results obtained under the distribution.

Respectfully submitted,

LESLIE C. JOPSON

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. McPartland	Deputy Water Master

GENERAL DESCRIPTION OF WORK

Water master service was continued in the Cedar 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 March 21st and terminated on April 30, 1934.

Mr. Leslie C. Jopson, Water Master, handled the distribution of the waters of Cedar Creek in conjunction with other Surprise Valley streams.

All the ditches on the creek, except the Toney North and Acty Ditches, were open for a few days the latter part of March. The second priority users all received some water at this time except W. E. and Harry Hill above whom the channel is badly filled with debris. There is generally some opposition to opening up the channel but the owners of the Hill Ranches must do it if they receive water directly from the Creek. Otherwise, they must wait for the water to flood across the Smalls Ranch.

Water was available for the second priority rights for too short a period in 1934 to permit the use of a rotation schedule.

DISCUSSION OF RESULTS FOR SEASON

Table 1 contains the precipitation data for Cedarville. The monthly and seasonal precipitation for the period of water master service in Surprise Valley and a comparison of the 1933-34 seasonal precipitation with the 1894-1934 mean are shown in this table. The 1933-34 record shows the precipitation of that season as 70.3 per cent of the mean.

Table 2 is a tabulation of the water supply of Cedar Creek above all diversion for the 1934 season. This table includes the foreign water from Thoms Creek which is commingled with the Cedar Creek water in the upper reaches of the creek. The hydrograph at the end of the report shows graphically the water supply of Cedar Creek, including foreign water, for the years 1932 and 1934, compared with the allotments. The 1932 water supply has been included in the hydrograph as an indicator of approximately normal conditions.

Table 3 is a tabulation of the estimated flow of the Thoms Creek Ditch at the summit of Cedar Pass.

Table 4 is a tabulation of the amounts of water delivered to each priority class during the periods shown. The table also shows the per cent of total allotments delivered during the indicated periods. The maximum amount delivered during the periods shown was 28 per cent of the total allotment and the minimum was 9 per cent. Subsequent to the period covered by this report the creek was observed to have dropped to no delivery.

There was no crop census taken in 1934 as there was a complete crop failure on most of the ranches and only a small return on the others.

CONTROVERSIES

There were no controversies of importance in 1934.

RECOMMENDATIONS

An entire set of measuring devices should be constructed on Cedar Creek at the earliest possible date, also headgates where necessary.

FINANCIAL STATEMENT

The funds collected from the water users in the Cedar Creek Water Master District, to defray the expenses of water master service, are placed to the credit of the Cedar 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

CEDAR CREEK WATER DISTRICT FUND

JANUARY 1, 1935

RECEIPTS

Balance as of January 1, 1934	$187.61	
Contributed by State in 1934	100.00	
Contributed by Taxpayers (Jan. 1/34 to Jan. 1/35)	97.83	
	385.44	$385.44

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

Water Master Compensation	107.16	
Water Master Travel Expense	34.34	
Contingencies		
	141.50	141.50
BALANCE		243.94

T A B L E S

TABLE 1

PRECIPITATION

Cedarville, California

Season	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Seasonal
1924-25	0.25	2.06	1.86	1.66	1.08	1.34	0.61	0.65	1.59	0.49	0.29	0.30	12.18
1925-26	1.34	1.57	1.31	1.25	1.06	1.18	.13	1.26	1.07	T	.09	.09	10.35
1926-27	.15	.53	2.73	1.16	1.82	2.02	1.73	.81	.95	.35	T	T	12.25
1927-28	.32	.86	2.87	.86	.92	.75	2.93	.81	T	.55	.00	.00	10.87
1928-29	.40	.15	1.43	.42	2.08	.59	1.20	1.85	.29	1.98	.00	T	10.39
1929-30	.07	.19	.00	3.02	3.39	1.53	.83	.51	.67	T	.02	T	10.23
1930-31	1.64	.59	1.22	.18	.67	.66	1.68	.58	.25	2.25	.00	.00	9.72
1931-32	.33	3.20	.96	1.85	2.23	.70	1.97	1.87	.53	.22	T	T	13.86
1932-33	T	.13	.78	1.20	1.31	.81	.63	.86	1.06	.26	.25	T	7.33
1933-34	.42	1.23	T	.87	1.37	1.44	.98	.19	.94	1.14	.00	.13	8.71
Mean 1894 to 1934	.56	.98	1.59	1.54	1.74	1.52	1.47	.91	1.00	.68	.22	.17	12.38
1933-34 in per cent of total mean	3.4	10.0	0.0	7.0	11.1	11.6	7.9	1.5	7.6	9.2	0.00	1.0	70.3

TABLE 2

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND OF CEDAR CREEK INCLUDING DISCHARGE FROM THOMS CREEK DITCH FOR THE PERIOD MARCH 21st to APRIL 30, 1934

Day	March	April	May	June	
1	No	12.5	No	No	
2	Record	12.0	Record	Record	
3		11.0			
4		9.50			
5		8.80			
6		8.10			
7		7.50			
8		6.60			
9		5.30			
10		5.10			
11		4.90			
12		4.80			
13		4.70			
14		4.60			
15		4.50			
16		4.20			
17		3.90			
18		3.60			
19		3.35			
20		3.10			
21	3.50	2.90			
22	3.40	2.70			
23	3.40	2.50			
24	3.30	2.40			
25	9.00	2.30			
26	4.50	2.20			
27	6.50	2.10			
28	12.0	2.00			
29	18.0	1.90			
30	14.4	2.00			
31	13.8	--			
Total Sec. Feet Days	91.80	151.05			41 Day Period
Mean Sec. Feet	8.35	5.03			5.92
Maximum Sec. Feet	18.0	12.5			18.0
Minimum Sec. Feet	3.30	1.90			1.90
Total Acre Feet	182.	300.			482.

TABLE 3

ESTIMATED DAILY DISCHARGE IN CUBIC FEET PER SECOND
OF THOMS CREEK DITCH INTO CEDAR CREEK FOR THE PERIOD
MARCH 21 to APRIL 30, 1934

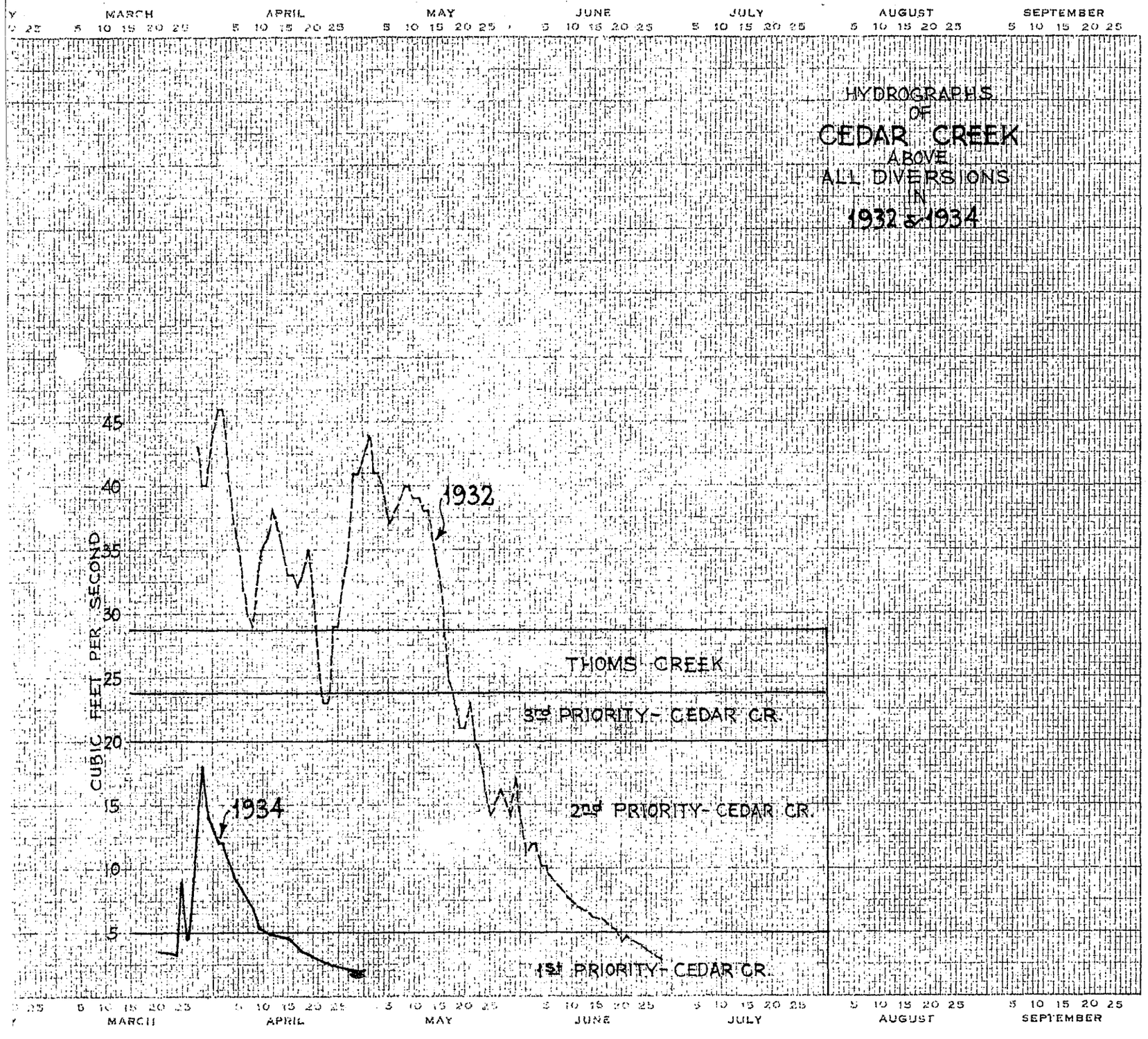
Day	March	April	May	June	
1	No	1.60	No	No	
2	Record	1.60	Flow	Flow	
3		1.40			
4		1.30			
5		1.20			
6		1.10			
7		1.10			
8		.90			
9		.70			
10		.70			
11		.70			
12		.60			
13		.60			
14		.60			
15		.60			
16		.50			
17		.40			
18		.30			
19		.30			
20		.25			
21	0.80	.25			
22	.80	.20			
23	.80	.20			
24	.80	.15			
25	1.00	.15			
26	1.00	.10			
27	1.00	.10			
28	1.00	.10			
29	1.60	.10			
30	1.60	.10			
31	1.60	--			
Total Sec. Feet Days	12.00	17.90			41 Day Period
Mean Sec. Feet	1.09	.60			0.73
Maximum Sec. Feet	1.60	1.60			1.60
Minimum Sec. Feet	.80	.10			.10
Total Acre Feet	23.8	35.5			59.3

TABLE 4

WATER DELIVERIES ON CEDAR CREEK COMPARED WITH ALLOTMENTS - 1934

Period	Average daily discharge including Thoms Creek Ditch, c.f.s.	Cedar Creek						Thoms Creek	
		Average channel loss c.f.s.	Average combined diversions c.f.s.	Per cent of full allotments delivered				Average combined diversions c.f.s.	Per cent of allotments delivered 5.00 c.f.s.
				First Priority 5.00 c.f.s.	Second Priority 15.00 c.f.s.	Third Priority 3.90 c.f.s.	Total 23.90 c.f.s.		
3/21 to 3/30	7.80	1.50	5.26	69	12	0	22	1.04	.21
3/31 to 4/9	9/51	1.50	6.76	60	25	0	28	1.25	.25
4/10 to 4/19	4.36	.25	3.58	72	0	0	15	.53	.11
4/20 to 4/29	2.41	.20	2.05	41	0	0	9	.16	.03
Mean	6.02	.86	4.41	60	9	0	18	.74	.15

P L A T E S


MARCH
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
5 10 15 20 25
HYDROGRAPHS
OF
CEDAR CREEK
ABOVE
ALL DIVERSIONS
IN
1932 & 1934
CUBIC FEET PER SECOND
45
40
35
30
25
20
15
10
5
1932
1934
THOMS CREEK
3rd PRIORITY- CEDAR CR.
2nd PRIORITY- CEDAR CR.
1st PRIORITY- CEDAR CR.