

STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF WATER RESOURCES

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EARL WARREN, Governor  
C. H. PURCELL, Director of Public Works  
A. D. EDMONSTON, State Engineer

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R E P O R T O N  
W A T E R M A S T E R S E R V I C E  
O N

SHACKLEFORD CREEK AND TRIBUTARIES  
SISKIYOU COUNTY, CALIFORNIA  
1950 SEASON

Sacramento, California

March, 1951

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SUBMISSION TO, AND ADOPTION BY  
DEPARTMENT OF PUBLIC WORKS

I, L. C. Jopson, Supervising Hydraulic Engineer, Division of Water Resources, Department of Public Works of the State of California, hereby submit the within contained report entitled "Report on Watermaster Service on Shackelford Creek and Tributaries, Siskiyou County, California, 1950 Season".

/s/ L. C. JOPSON  
Supervising Hydraulic Engineer

I, Gordon Zander, Principal Hydraulic Engineer, Division of Water Resources, Department of Public Works of the State of California, hereby approve the within contained report entitled "Report on Watermaster Service on Shackelford Creek and Tributaries, Siskiyou County, California, 1950 Season".

/s/ GORDON ZANDER  
Principal Hydraulic Engineer

I, A. D. Edmonston, State Engineer and Chief of the Division of Water Resources, Department of Public Works of the State of California, hereby approve and adopt the within contained report entitled "Report on Watermaster Service on Shackelford Creek and Tributaries, Siskiyou County, California, 1950 Season", as a report of the Department of Public Works.

WITNESS my hand and the seal of the Department of Public Works of the State of California, this        day of        , 1951.

DEPARTMENT OF PUBLIC WORKS

By /s/ A. D. EDMONSTON  
A. D. Edmonston  
State Engineer

SEAL

ORGANIZATION

C. H. Purcell . . . . . Director of Public Works  
A. D. Edmonston . . . . . State Engineer  
P. H. Van Etten . . . . . Assistant State Engineer  
Gordon Zander . . . . Principal Hydraulic Engineer

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This report was prepared under the direction of

L. C. JOPSON  
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By

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TABLE OF CONTENTS

	Page
<u>INTRODUCTION</u> . . . . .	1
<u>WATER SUPPLY</u> . . . . .	2
Precipitation . . . . .	2
Stream Flow . . . . .	2
<u>DISTRIBUTION OF WATER</u> . . . . .	3
Upper Shackelford Creek . . . . .	3
Lower Shackelford Creek . . . . .	5
Upper Mill Creek . . . . .	7
Lower Mill Creek . . . . .	7
<u>SUMMARY</u> . . . . .	8

TABLES

1. Precipitation at Yreka, Siskiyou County, Elevation 2,625 Feet.  
Precipitation at Etna, Siskiyou County, Elevation 2,945 Feet.
2. Daily Discharge in Cubic Feet per Second, SHACKLEFORD CREEK  
BELOW CAMP DITCH, June 13 to September 30, 1950.
3. Daily Discharge in Cubic Feet per Second, RALPH EASTLICK  
DITCH, June 13 to September 30, 1950.
4. Daily Discharge in Cubic Feet per Second, SHACKLEFORD  
DITCH, June 27 to September 30, 1950.
5. Daily Discharge in Cubic Feet per Second, HOWARD-JONES  
DITCH, June 27 to September 30, 1950.
6. Daily Discharge in Cubic Feet per Second, CAMP DITCH,  
June 13 to September 30, 1950.
7. Daily Discharge in Cubic Feet per Second, UPPER SHACKLEFORD  
CREEK ABOVE DIVERSIONS, July 1 to September 30, 1950.

APPENDIX

Order for Supervision of Distribution of Water During the  
1950 Irrigation Season.

## INTRODUCTION

A petition requesting a determination of all the rights on Shackelford Creek and its Tributaries, dated January 15, 1944, was filed with the Department of Public Works of the State of California, Division of Water Resources, State Engineer on January 18, 1944. By order of the Department, dated June 22, 1944, the petition was granted and the examination of the stream system was begun on September 1, 1944. The various steps in the proceeding up to and including the 1949 irrigation season are set forth in "Report on Water Supply and Use of Water on Shackelford Creek and Tributaries, Siskiyou County, California, January, 1945", and subsequent annual reports on watermaster service.

On April 3, 1950, decree was entered by the Superior Court, Siskiyou County, California, determining the rights of the various claimants to the water of Shackelford Creek and its Tributaries.

Subsequent to entry of decree, affidavits were filed with the court requesting that watermaster service be rendered by the Department during the 1950 irrigation season. After hearing, the court found that there should be supervision of distribution of the water of Shackelford Creek and its Tributaries during the said season and entered an order providing that the Department of Public Works, acting through the State Engineer, supervise distribution of said system in accordance with the decree entered on April 3, 1950. A copy of this order, containing the apportionment of the expense of said distribution, is included herein as an appendix to this report.

Supervision of distribution under the court order covered the period from about June 13 to September 30, 1950. J. T. Blair, Junior Civil Engineer, served as watermaster under the supervision of P. R. Stephenson, Senior Hydraulic Engineer.

## WATER SUPPLY

### Precipitation

Records of precipitation at Yreka and at Etna are presented in Table 1 of this report. A comparison of the precipitation at these two stations for the ten-year period 1940-41 to 1949-50, indicates that the average seasonal precipitation at Etna is 136 per cent of that at Yreka. Applying this percentage to the 35-year mean seasonal precipitation of 16.33 inches at Yreka, it is deduced that the 35-year mean seasonal precipitation at Etna is about 22.2 inches. The 1949-50 precipitation at Etna was approximately 105 per cent of this deduced mean. At Yreka the precipitation for the same season was about 122 per cent of the 35-year mean for that station.

### Stream Flow

A stream flow measuring station and water stage recorder was maintained for the period from June 13 to September 30, 1950, on Shackelford Creek Below the Camp Ditch. Records of daily discharge at this station are submitted at the end of this report in Table 2.

Supplemental to this measuring station and as an aid to distribution, water stage recorders were installed and maintained on the R. Fastlick, Shackelford, Howard-Jones, and Camp Ditches. Records of daily discharge for these ditches are set forth in Tables 3, 4, 5 and 6, at the end of this report.

A tabulation showing the total water supply available in Upper Shackelford Creek above all diversions for the period from July 1 to September 30, 1950, is submitted in Table 7. A comparison of the record with that in 1949 indicates that the flow in 1950 was about 154 per cent of that for the same period in 1949.

## DISTRIBUTION OF WATER

Distribution for the 1950 irrigation season was based on Schedules 3, 4, 5, and 6 of the Shackelford Creek decree. As a necessary adjunct to distribution, weirs have been installed in all ditches where it was practical to do so and intermittent measurements were made thereon.

### Upper Shackelford Creek

Cliff and Campbell Lakes and the Ralph Fastlick, Shackelford, Howard-Jones, Camp, Whipple, Hobart Domestic, Hobart and Dangel Shackelford Ditches are located within this section of Shackelford Creek. The distribution of water for these ditches was based on the allotments set forth in Schedule 3.

There was sufficient water available to supply all demands of the first five priority classes in the schedule until about July 25. Subsequent to that date it was necessary to make some regulation of the ditches to maintain diversion in accordance with the rights and priorities in the schedule.

A statement of the conditions encountered and of the regulations of the various ditches follows:

Cliff and Campbell Lakes (Diversions 1 and 2) These lakes are maintained and operated to supply water for rediversion through the Shackelford Ditch during the latter part of the irrigation season. During the 1950 season, water was released through Campbell Lake Dam from August 20 to September 24. This released water was rediverted through the Shackelford Ditch to supplement its natural flow entitlement.

Inspection of the Campbell Lake and Cliff Lake dams and outlet structures was made on July 2, 1950 by D. S. Cleavinger, J. T. Blair and W. B. Shaw accompanied by Ralph O. Blake, the owner. Mr. Blake was instructed by Mr. Cleavinger to make minor repairs to the outlet structure of Campbell Lake Dam.

Ralph Eastlick Ditch (Diversion 3) There was sufficient water supply to about July 25 to satisfy the full fourth priority entitlement of this ditch. Subsequent to this date until about August 8, when the ditch was closed, regulation was made in accordance with the percentage of flow available for the fourth priority class as set forth in Schedule 3. The daily discharge of the ditch for the period from June 13 to September 30 is shown in Table 3.

Shackleford Ditch (Diversion 4) There was sufficient flow to about July 7 to satisfy full second and fifth priority entitlements of eleven cubic feet per second allotted for use through this ditch in Schedule 3. From that date until about July 23, the water supply was insufficient for full entitlement under the fifth priority right and regulation was made in accordance with the percentage of flow available for the fifth priority entitlement. Subsequent to July 23 delivery was made to the second priority entitlement only.

The outlet gate of Campbell Lake was opened on August 20. The water released from Campbell Lake was rediverted by the Shackleford Ditch in addition to the entitlement from the natural flow of Shackleford Creek.

The daily discharge of the ditch for the period from June 27 to September 30 is shown in Table 5.

Howard-Jones Ditch (Diversion 5) There was sufficient flow to about July 25, to satisfy the full fourth priority entitlements. After this date until about August 21, when the ditch was closed, regulation was made in accordance with the percentage of flow available for the fourth priority class as set forth in Schedule 3. The daily discharge of the ditch for the period from June 27 to September 30 is shown in Table 5.

Camp Ditch (Diversion 6) There was sufficient flow up to about July 22 to satisfy the total first and third priority entitlements of five cubic feet per second allotted in Schedule 3 for use through this ditch. Subsequent to August 10 and until the end of the season an average discharge of about four cubic feet per second was maintained. The daily discharge of the ditch from June 13 to September 30 is shown in Table 6.

Whipple Ditch (Diversion 7) This ditch was not operated after July 1 in 1950.

Hobart Ditch (Diversion 9) There was no water available for this ditch after July 1.

Dangel Shackelford Ditch (Diversion 10) There was no water available for this ditch after July 1.

#### Lower Shackelford Creek

There are seven ditches diverting from this section of Shackelford Creek. In order downstream they are the Freitas, Chester, Hammond-Crawford-Lewis, Burton-Meamber, Goodale, Burton West Side and Burton East Side. The allotments for these ditches are set forth in Schedule 4.

Freitas Ditch (Diversion 17) A restricted ditch section prevented full entitlements being diverted through this ditch during the period of ample water supply. After August 1, when less than full allotments were available, Edward Burton elected to use his entitlement in the Burton-Meamber Ditch through this ditch.

Water was available for all priorities until about July 23, with the amount decreasing thereafter until low flow conditions were reached about September 4. Diversion through the ditch was not maintained at the maximum available at any time during this period. Subsequent to September 4, there was water available for the first priority right of Jack E. Schulz and about 60 per cent of the third priority rights of Edward Burton and United States of America.

Chester Ditch (Diversion 18) There was sufficient water available throughout the season to satisfy full entitlement of this ditch.

Hammond-Crawford-Lewis Ditch (Diversion 19) This ditch was used during the 1950 season in the same manner as during the past several years for the irrigation of 6.9 acres and 11.9 acres on the Chester and Miller properties, respectively. No use was made by the Joseph Rivallier property. A weir was installed and the ditch was regulated in accordance with the rights set forth in Schedule 4.

Burton-Meamber Ditch (Diversion 20) Water was available to satisfy full entitlements for this ditch until about September 4. Subsequently, until the end of the season, about 60 per cent of allotments were available. Edward Burton elected to use his entitlement in this ditch through the Freitas Ditch during August and September.

Goodale Ditch (Diversion 21) This ditch was regulated in accordance with the rights set forth in Schedule 4. Water was available for the second

priority right throughout the season. Under the fourth priority right water was used for the irrigation of about 45 acres on the Rivallier ranch west of the county road until about September 4.

Burton West Side Ditch (Diversión 22) This ditch received its full entitlement throughout the season.

Burton East Side Ditch (Diversión 23) This ditch was used during the early season by the Rivallier ranch for the diversion of a portion of their fourth priority entitlement set forth in Schedule 4. Water was not available for this right after about September 1.

#### Upper Mill Creek

The Eastlick (Mill Creek) Ditch and the Couch Ditch are the only diversions from this section of the stream. The allotments for these ditches are set forth in Schedule 5.

Eastlick (Mill Creek) Ditch (Diversión 11) This ditch was entitled to divert the entire flow of Mill Creek at its head subsequent to July 1. The available supply on that date was about 3 second-feet which decreased to about 1 second-foot by the end of September.

Couch Ditch (Diversión 12) This ditch had an average of about 0.36 second-foot available at all times after July 1.

Hobart West Spring Ditch (Diversión 26 and Hobart East Spring Ditch (Diversión 27) These ditches divert from a spring channel tributary to this section of Mill Creek, and normally take the entire flow available in that source. No regulation was necessary during the season.

#### Lower Mill Creek

Springs and rising water in the stream channel form the main sources of water for the sustained flow of this section of Mill Creek. Additional water is contributed by return flow from irrigation on the Albee, Eastlick and Davis Ranches.

Four ditches divert from this section of the stream system, namely, in order downstream: Mulloy Spring Ditch (Diversion 13), China Ditch, Diversion (14), Dangel Mill Creek Ditch (Diversion 15) and Denny Bar Ditch (Diversion 16). Sufficient flow was available throughout the season to satisfy the full entitlements of these ditches as set forth in Schedule 6.

Hobart West Spring Ditch (Diversion 26) and Hobart East Spring Ditch (Diversion 27) These ditches divert from a spring channel tributary to this section of Mill Creek, and normally take the entire flow available in that source. No regulation was necessary during the season.

#### SUMMARY

Supervision of distribution as ordered by the court resulted in an orderly distribution of the available water to the parties having rights under the decree. The operation of the various diversion systems as described under "Water Supply" indicated that the distribution was satisfactory.

TABLE 1

## PRECIPITATION AT YREKA, SISKIYOU COUNTY - ELEVATION 2,625 FEET

Monthly, Seasonal and Average Amounts in Inches

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Seasonal
1940-41	1.34	.98	4.13	2.85	2.99	1.51	2.07	1.66	.95	.70	.54	.81	20.53
1941-42	1.01	1.84	8.01	1.88	2.65	.33	1.66	3.96	.30	.00	.13	.47	22.18
1942-43	.34	6.26	5.01	4.22	1.41	1.21	1.07	.66	1.07	.09	.01	.00	21.35
1943-44	2.24	1.17	.85	1.25	1.43	1.44	1.00	.73	.68	.60	.25	.22	11.86
1944-45	.45	2.86	1.15	.96	2.87	1.53	.69	4.06	.07	.13	.05	.07	14.82
1945-46	2.06	2.86	4.55	2.25	1.99	1.13	.57	.89	.89	.41	.07	.08	17.83
1946-47	1.07	3.15	.76	1.16	.93	1.84	.35	.73	1.13	.26	.85	.00	12.23
1947-48	2.46	.99	.74	5.35	1.36	1.56	2.50	.90	1.33	.29	2.54	.98	21.00
1948-49	.52	2.26	3.99	.39	1.76	.39	.32	1.29	.57	.00	.00	.30	11.79
1949-50	.55	1.46	.99	6.11	6.21	2.37	.50	.30	1.02	.01	.88	1.01	21.41
35-Year Mean	1.14	2.39	2.82	2.38	2.40	1.40	1.01	.90	.70	.34	.26	.55	16.33
10-Year Mean	1.20	2.38	3.02	2.64	2.36	1.33	1.07	1.52	.80	.25	.53	.39	17.49

## PRECIPITATION AT ETNA, SISKIYOU COUNTY - ELEVATION 2,945 FEET

Monthly, Seasonal and Average Amounts in Inches

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Seasonal
1940-41	1.73	1.11	6.72	3.13	4.56	2.35	2.57	1.83	.92	1.38	.61	.51	27.42
1941-42	1.21	2.91	9.71	3.46	3.91	.32	1.21	2.81	.20	.00	.00	.13	25.87
1942-43	.52	10.30	7.33	8.17	1.35	1.91	1.61	.61	.59	.40	.00	.00	32.79
1943-44	3.24	1.03	1.03	2.69	1.42	2.50	.79	.62	.70	.89	.25	.22	15.38
1944-45	.53	5.65	.96	1.02	4.76	1.91	.68	2.68	.04	.12	.39	.00	18.74
1945-46	3.83	5.80	8.56	4.90	2.61	1.64	1.01	.36	.54	.27	.00	.28	29.80
1946-47	1.83	4.66	.97	1.98	1.90	4.01	.32	.41	.70	.58	.49	.05	17.90
1947-48	3.95	0.75	0.96	7.54	3.36	1.76	2.60	1.14	1.63	0.22	0.15	2.00	26.06
1948-49	1.00	3.74	6.23	.53	3.94	1.04	.26	2.65	.04	.05	.05	1.20	20.73
1949-50	.78	2.30	1.62	9.52	1.16	3.18	0.31*	0.40	1.71	0.00	0.26	0.95	23.19*
10-Year Mean	1.86	3.82	4.41	4.29	2.90	2.16	1.14	1.35	0.71	0.39	0.22	0.53	23.78

\* Two days record missing.

TABLE 2

Daily Discharge in Cubic Feet Per Second  
SHACKLEFORD CREEK BELOW CAMP DITCH  
June 13 to September 30, 1950

Day	June	July	August
1		54	
2	NO	50	
3		45	
4		44	
5		35	
6		28	
7		25	
8	RECORD	20	NO
9		19	
10		19	
11		18	
12		16	
13	91	15	
14	88	12	
15	83	11	
16	78	8	
17	78	6	
18	78	2	
19	83	1	
20	86	1	
21	97	1	
22	88	1	
23	81	1	FLOW
24	71	1	
25	63	0	
26	61	0	
27	51	0	
28	53	0	
29	54	0	
30	54	0	
31		0	
Total Sec.			
Ft. Days	1,338	433	0
Mean			
Sec. Ft.	43	14	0
Total			
Ac. Ft.	2,653	859	0

No Flow during September.

Discharge during 110-day period - 3,512 acre-feet.

TABLE 3

Daily Discharge in Cubic Feet Per Second  
 RALPH EASTLICK DITCH  
 June 13 to September 30, 1950

Day	June	July	August
1		3.8	0.5
2		3.8	1.3
3	NO	3.8	2.3
4		3.8	1.5
5		3.7	1.4
6		4.3	1.0
7		4.7	1.9
8	RECORD	4.5	0.5
9		4.6	0
10		4.5	
11		4.3	
12		4.0	
13	2.3	4.0	
14	2.3	3.9	
15	2.3	3.8	
16	2.3	3.6	
17	2.3	3.6	
18	2.3	3.6	NO
19	2.3	3.7	
20	2.4	3.6	
21	2.4	3.6	
22	2.5	3.6	
23	4.3	3.7	
24	4.2	3.8	FLOW
25	4.2	3.9	
26	4.0	3.3	
27	3.8	3.2	
28	3.8	2.8	
29	3.8	2.4	
30	3.8	2.3	
31		2.0	
Total Sec.			
Ft. Days	55.3	114.2	10.4
Mean			
Sec. Ft.	3.1	3.7	1.3
Total			
Ac. Ft.	110	226	21

No Flow during September.

Discharge during 110-day period. 357 acre-feet.

TABLE 4

Daily Discharge in Cubic Feet Per Second  
SHACKLEFORD DITCH  
June 27 to September 30, 1950

Day	June	July	August	September
1	NO.	11.8	6.7	8.2
2		11.8	6.7	8.0
3		11.8	6.5	7.8
4		11.8	6.0	7.8
5		11.8	6.5	7.8
6		11.3	6.2	7.4
7		10.9	6.0	7.4
8		10.3	6.4	7.4
9		10.1	6.7	7.4
10		9.9	6.7	7.4
11		9.5	9.3	7.2
12		9.3	8.6	7.2
13		8.6	8.0	7.2
14		8.4	6.9	7.2
15		8.2	6.7	7.2
16		8.0	6.7	7.2
17		7.8	7.8	7.2
18	RECORD	7.6	7.8	7.4
19		7.4	7.8	7.4
20		7.4	8.0	7.4
21		7.4	9.7	7.2
22		7.4	8.2	6.7
23		7.1	8.2	6.5
24		6.7	8.2	5.7
25		6.5	8.2	5.0
26		6.7	7.4	5.0
27	11.8	6.7	7.6	7.4
28	11.8	6.7	8.2	7.6
29	11.8	6.7	8.6	7.6
30	11.8	6.7	8.3	7.6
31		6.7	8.4	
Total Sec.:				
Ft. Days	47.2	269.0	233.0	215.5
Mean				
Sec. Ft.	11.8	8.7	7.5	7.2
Total				
Ac. Ft.	94	533	462	427

Discharge during 96-day period - 1,516 acre-feet.

TABLE 5

Daily Discharge in Cubic Feet Per Second  
 HOWARD JONES DITCH  
 June 27 to September 30, 1950

Day	June	July	August
1		4.9	2.7
2		4.7	2.7
3		4.6	2.7
4		4.6	2.5
5		4.6	1.2
6		4.6	2.0
7		4.6	2.7
8	NO	4.6	1.2
9		4.7	0.2
10		4.7	0.2
11		5.9	0.2
12		6.3	0.2
13		6.2	0.2
14		6.3	0.2
15		6.1	0.2
16		6.1	0.2
17		6.3	0.2
18	RECORD	6.6	0.2
19		6.6	0.2
20		6.2	0.2
21		6.0	0.2
22		5.9	0
23		5.6	
24		5.4	NO
25		6.0	
26		5.4	
27	4.2	3.4	
28	4.9	2.3	FLOW
29	4.9	4.3	
30	4.9	4.0	
31		4.0	
Total Sec.			
Ft. Days	18.9	161.5	20.3
Mean	4.7	5.2	1.0
Sec. Ft.			
Total			
Ac. Ft.	37	320	40

No Flow during September.

Discharge during 96-day period - 397 acre-feet.

TABLE 6

Daily Discharge in Cubic Feet Per Second  
CAMP DITCH  
June 13 to September 30, 1950

Day	June	July	August	September
1		6.0	3.8	3.8
2		6.0	2.5	3.8
3	NO	6.0	1.5	3.8
4		6.1	2.8	3.8
5		6.0	3.0	3.7
6		6.0	2.3	3.7
7		5.7	1.6	3.7
8		5.6	3.0	3.8
9	RECORD	5.6	5.3	3.8
10		5.6	5.0	3.8
11		5.5	3.9	3.8
12		5.4	4.3	3.8
13	5.6	5.2	4.3	3.7
14	5.6	4.8	5.4	3.7
15	5.6	4.5	6.3	3.7
16	5.6	4.3	6.6	3.7
17	5.6	6.1	4.5	3.9
18	5.6	6.1	3.6	3.8
19	5.6	6.1	3.6	3.9
20	5.6	5.4	3.6	3.7
21	5.6	5.2	3.4	3.6
22	5.6	3.8	3.6	3.6
23	6.0	3.6	3.6	3.6
24	6.0	3.8	3.6	3.4
25	6.0	3.8	3.6	3.4
26	6.1	3.8	3.5	4.7
27	6.2	4.5	3.4	4.5
28	6.0	4.7	3.7	4.0
29	6.0	2.1	3.9	4.0
30	6.0	2.1	3.8	4.0
31		1.9	3.8	
Total Sec.:				
Ft. Days	104.3	151.3	116.8	115
Mean				
Sec. Ft.	5.8	4.9	3.8	3.8
Total				
Ac. Ft.	207	300	232	228

Discharge during 110-day period - 967 acre-feet.

TABLE 7

Daily Discharge in Cubic Feet Per Second  
UPPER SHACKLEFORD CREEK ABOVE DIVERSIONS  
July 1 to September 30, 1950

Day	July	August	September
1	80.5	13.7	12.0
2	76.3	13.2	11.8
3	71.2	13.0	11.6
4	70.3	12.8	11.6
5	61.1	12.1	11.5
6	54.2	11.5	11.1
7	50.9	12.2	11.1
8	45.0	11.1	11.2
9	44.0	12.2	11.2
10	43.7	11.9	11.2
11	43.2	13.4	11.0
12	40.9	13.1	11.0
13	39.0	12.5	10.9
14	35.4	12.5	10.9
15	33.6	13.2	10.9
16	31.2	13.5	10.9
17	30.6	12.5	11.1
18	26.0	11.6	11.2
19	24.8	11.6	11.3
20	23.6	11.6	11.1
21	23.2	13.3	10.8
22	21.7	11.8	10.3
23	21.0	11.8	10.1
24	20.7	11.8	9.1
25	20.2	11.8	9.5
26	19.2	10.9	9.7
27	17.8	11.0	11.9
28	16.5	12.9	11.6
29	15.5	12.5	11.6
30	15.1	12.1	11.6
31	14.6	12.2	
Total Sec.			
Ft. Days	1,131.0	381.3	230.8
Mean			
Sec. Ft.	36.5	12.3	7.7
Total			
Ac. Ft.	2,245	755	460

Discharge during 92-day period - 3,460 acre-feet.

APPENDIX.

IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA

IN AND FOR THE COUNTY OF SISKIYOU

...oOo...

IN THE MATTER OF THE DETERMINATION OF )  
THE RIGHTS OF THE VARIOUS CLAIMANTS )  
TO THE WATERS OF SHACKLEFORD CREEK )  
AND ITS TRIBUTARIES IN SISKIYOU COUNTY, )  
CALIFORNIA )

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NO. 13775

ORDER FOR SUPERVISION OF  
DISTRIBUTION OF WATER DURING  
THE 1950 IRRIGATION SEASON

A hearing having been held on May 29, 1950, before the Court pursuant to an order of this Court entered herein dated May 8, 1950 to determine whether there should be supervision of distribution of the water of Shackelford Creek and its tributaries for the 1950 irrigation season, by the Department of Public Works, acting through the State Engineer, in accordance with the rights of the parties established and set forth in the decree entered herein:

Evidence, both oral and documentary, having been introduced, the matter having been argued and submitted for decision;

Being fully advised in the premises, the Court finds and determines that due notice of the hearing has been given, that supervision of distribution of water of Shackelford Creek and its tributaries during the 1950 irrigation season, in accordance with the rights of the parties established in the decree entered herein, is necessary to enforce the provisions of said decree, to preserve the public peace, convenience and welfare, and to prevent waste or unreasonable.

use or unreasonable method of use of water in accordance with the provisions of Section 3, Article XIV of the Constitution; that the statement of estimated expenses for supervision of distribution of water of Shackleford Creek and its tributaries during the 1950 irrigation season and apportionment thereof, on file herein, sets forth a total amount of expenses which is proper and reasonable, and an equitable apportionment thereof among the parties to this proceeding who will be benefited by such supervision, now therefore,

IT IS ORDERED that the Department of Public Works, acting through the State Engineer, supervise distribution of water of Shackleford Creek and its tributaries during the 1950 irrigation season in accordance with the decree entered in this proceeding on April 3, 1950, in Volume 19 of the Judgment Book at page 472;

That the parties to the above entitled proceeding whose names appear as hereinafter set forth pay to said Department of Public Works the amounts stated opposite their respective names, and that said parties transmit said respective amounts to A. D. Edmonston, State Engineer, 401 Public Works Building, Sacramento 14, California, within 30 days after the date of service by mail upon said parties of notice of this order. The names of said parties and the respective amounts are as follows:

Name of Claimant	Continuous Flow Equivalent Cu. Ft. per Sec.	Portion of Expense
Blake, Ralph B., successor to Graham, Cecil and Zwanziger, Camille	12.43	52.95
Burton, Rurnell M. and Burton, Rose A.	2.30	10.86
Burton, Edward and Vanarsdell, Francis	3.30	15.02

Name of Claimant	Continuous Flow Equivalent Cu. Ft. per Sec.	Portion of Expense
Butler, Lena	1.00	5.46
Gason, Jesse Arnold and Helm, Roy J.	1.00	5.46
Chester, Henry F.	0.90	5.04
Couch, Robert L.	0.62	3.88
Dangel, Jacob	2.70	12.52
Davis, Robert P. and Davis, Margaret W.	4.50	20.00
Eastlick, G. Douglas and Eastlick, Elma J.	4.50	20.00
Elliott, Louis F. and Elliott, Vivian I., successor to Schulz, Jack E.	1.30	6.71
English, Robert A.	0.30	2.55
Heide, John H. and Heide, Lorene M.	3.50	15.85
Lathrop, F. L. and Lathrop, Georgina C.	4.65	20.63
Miller, Donald L.	0.70	4.21
Mulloy, Cornelius J. and Mulloy, L. Dennis	4.50	20.00
Mulloy, L. Dennis	2.93	13.48
Parks, Drury M.	0.30	2.55
Pereira, Julio	1.40	7.12
Rivallier, Joseph	3.30	15.02
Sinz, Joseph	0.30	2.55
Soderquist, Arthur L. and Soderquist, Mildred J.	0.30	2.55
United States of America	8.25	35.59
Totals	64.98	\$300.00

Name of Claimant	Continuous Flow Equivalent Cu. Ft. per Sec.	Portion of Expense
Butler, Lena	1.00	5.46
Cason, Jesse Arnold and Helm, Roy J.	1.00	5.46
Chester, Henry F.	0.90	5.04
Couch, Robert L.	0.62	3.88
Dangel, Jacob	2.70	12.52
Davis, Robert P. and Davis, Margaret W.	4.50	20.00
Eastlick, G. Douglas and Eastlick, Elma J.	4.50	20.00
Elliott, Louis E. and Elliott, Vivian I., successor to Schulz, Jack E.	1.30	6.71
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Mulloy, L. Dennis	2.93	13.48
Parks, Drury M.	0.30	2.55
Pereira, Julio	1.40	7.12
Rivallier, Joseph	3.30	15.02
Sinz, Joseph	0.30	2.55
Soderquist, Arthur L. and Soderquist, Mildred J.	0.30	2.55
United States of America	8.25	35.59
Totals	64.98	\$300.00

It is further ordered that this order shall have the force and effect of a final judgment for the payment of money and shall draw interest at the rate provided by law, and execution may issue in favor of said Department of Public Works, against any party delinquent.

JAMES M. ALLEN  
Judge of the Superior Court

Date: May 29, 1950