

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

GOODWIN J. KNIGHT, Governor
HARVEY O. BANKS, Director of Water Resources
M. J. SHELTON, Deputy Director of Water Resources

REPORT ON
WATERMASTER SERVICE

IN

SHACKLEFORD CREEK WATERMASTER SERVICE AREA

SISKIYOU COUNTY, CALIFORNIA

1957 SEASON

Sacramento, California
April, 1958

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SUBMISSION TO, AND ADOPTION BY
DEPARTMENT OF WATER RESOURCES

I, William R. Gianelli, Chief, Water Rights Section, Department of Water Resources, State of California, approve this "Report on Watermaster Service in Shackelford Creek Watermaster Service Area, Siskiyou County, California, 1957 Season".

/s/ William R. Gianelli

William R. Gianelli
Chief, Water Rights Section

I, Harvey O. Banks, Director of the Department of Water Resources, State of California, approve and adopt this "Report on Watermaster Service in Shackelford Creek Watermaster Service Area, Siskiyou County, California, 1957 Season", as a report of the Department of Water Resources.

WITNESS my hand and the seal of the Department of Water Resources of the State of California, this _____ day of April, 1958.

State of California
Department of Water Resources

/s/ Harvey O. Banks

HARVEY O. BANKS
DIRECTOR

(SEAL)

ORGANIZATION
DEPARTMENT OF WATER RESOURCES

Harvey O. Banks. Director of Water Resources
M. J. Shelton. Deputy Director of Water Resources

The activity covered by this report is under the
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INTRODUCTION

This is the seventh annual report on watermaster service in the Shackleford Creek Watermaster Service Area, and covers the period of water distribution beginning July 1 and terminating September 30, 1957.

The service area was created by order of the Department of Public Works on November 6, 1950, to include with certain exceptions all water rights determined in the decree entered in the Shackleford Creek Adjudication proceeding on April 30, 1950, Superior Court, Siskiyou County, No. 13775.

Watermaster service has been provided during each irrigation season since the service area was created, and annual reports have been prepared to show the work accomplished during each season.

The report is presented under four headings as follows: Introduction, Water Supply, Distribution of Water, and Changes in Ownership of Lands and Water Rights. Following the text is Appendix A which contains tables presenting precipitation data at Fort Jones and water supply records at locations within the area.

WATER SUPPLY

The water supply of Shackleford Creek was slightly below normal for the 1957 irrigation season. The short supply was critical for lower priority users on Upper Shackleford Creek by the end of July. Users on Lower Shackleford Creek were closely regulated during the latter part of the season due to a shortage on that reach of the stream system.

Precipitation

Data on precipitation at Fort Jones as compiled from records of the United States Weather Bureau for the period from October 1, 1956 to

September 30, 1957, are presented in Table A-1. Annual precipitation for this period was 19.64 inches, amounting to about 94 per cent of the mean.

Stream Flow

A new stream flow gaging station was installed on Shackleford Creek above the Ralph Eastlick Ditch (Diversion 3) during the fall of 1956. Daily mean discharge at this station is tabulated in Table A-6.

The inflow and outflow of Cliff and Campbell Lakes was measured on July 21. It was determined that outflow exceeded inflow slightly. A flow of approximately 3.0 second-feet was released from Campbell Lake (Diversion 2) on August 8. At the same time approximately the same amount was released from Cliff Lake (Diversion 1) into Campbell Lake.

The release from Cliff and Campbell Lakes was to supplement the natural flow allotment for the Shackleford Ditch (Diversion 4).

DISTRIBUTION OF WATER

Water rights in the Shackleford Creek Watermaster Service Area are grouped in four divisions in the Shackleford Creek decree. The divisions and the schedules defining the water rights in the decree are as follows:

Upper Shackleford Creek Group	Schedule 3
Lower Shackleford Creek Group	Schedule 4
Upper Mill Creek Group	Schedule 5
Lower Mill Creek Group	Schedule 6

Upper Shackleford Creek Group

A surplus of water over allotments was available on Upper Shackleford Creek until about July 22, with a decrease in natural flow thereafter until the end of the season. After July 31, no water was available for fourth priority rights.

Recorders were maintained during a portion of the irrigation season on the Ralph Eastlick Ditch (Diversion 3), Shackleford Ditch (Diversion 4), Howard-Jones Ditch (Diversion 5), and Camp Ditch (Diversion 6) to aid in the distribution of water. The records of discharge of these ditches are presented in Tables A-2, A-3, A-4, and A-5, respectively. A summary of the distribution of water in per cent of allotments available follows:

Month	Per cent of allotments available						
	Priority						
	1	2	3	4	5	6	7
July	100	100	100	80	40	15	5
August	100	80	25	0	0	0	0
September	100	30	0	0	0	0	0

Lower Shackleford Creek Group

There was sufficient flow to supply all demands on Lower Shackleford Creek until August 12. From August 12 until the end of the season the sixth priority allotment to the Freitas Ditch (Diversion 17) was periodically reduced to supply higher priority rights.

The two lowermost diversions in this group, Burton West Side Ditch (Diversion 22) and Burton East Side Ditch (Diversion 23), have first priority allotments. The Burton East Side Ditch was not used this season. The diversion dams for the Hammond-Crawford-Lewis Ditch (Diversion 19) and the Burton-Meamber Ditch (Diversion 20) completely obstructed the main channel. Because of these obstructions it was necessary to pass water through the Burton-Meamber Ditch to the Burton West Side Ditch to assure a full allotment in the latter.

Upper Mill Creek Group

Crouch Ditch (Diversión 12) was not used during the 1957 season. The entire flow of Upper Mill Creek was diverted by Eastlick Mill Creek Ditch (Diversión 11).

Lower Mill Creek Group

The available water supply in the Lower Mill Creek area was sufficient to satisfy all demands throughout the season.

CHANGES IN OWNERSHIP OF LANDS AND WATER RIGHTS

Changes in ownership of lands and water rights which will be included in the "Statement for Shackelford Creek Watermaster Service Area, County of Siskiyou, State of California, for 1958", are listed in the following tabulation:

Tract number	Name of water right owner appearing in 1957 statement	Name of water right owner to appear in 1958 statement	Amount of water in second-foot
14-1	Dunaway, Ossmer E. and Dunaway, Margaret L.	Folendorf, R. A. and Folendorf, Hazel M.	12.43
14-11	Baker, Thaddeus A. and Baker, Mary Anita	Hayden, Joseph S. and Hayden, Shirley A.	0.30
14-18	Butler, Lena	Kerr, Wayne H. and Kerr, Bernice June	1.00

APPENDIX A

RECORDS OF WATER SUPPLY

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A-1	Precipitation at Fort Jones, Siskiyou County, California, 1956-1957	A-1
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A-3	Daily Mean Discharge of Shackelford Ditch	A-3
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TABLE A-1

PRECIPITATION AT FORT JONES, SISKIYOU COUNTY, CALIFORNIA
1956-1957

In Inches

Month	Mean precipitation	Precipitation 1956-1957
October	1.78	4.11
November	2.88	0.11
December	3.66	1.06
January	3.09	3.21
February	2.83	3.04
March	2.41	4.81
April	1.12	0.70
May	1.24	1.59
June	0.74	0.00
July	0.39	0.09
August	0.29	0.04
September	0.43	0.88
TOTALS	20.86	19.64

TABLE A-2

DAILY MEAN DISCHARGE OF RALPH EASTLICK DITCH

July 1 to September 16, 1957

In Second-Feet

Day	April	May	June	July	August	September
1						
2				N		
3				O		
4					N	N
5				F	O	O
6				L		
7				O		
8				W		
9						
10						
11					F	F
12				1.2	L	L
13				3.7		
14				3.7	O	O
15				3.6		
16					W	W
17				3.6		
18				3.5		
19				3.4		
20				3.3		
21				3.2		
22				3.3		
23				2.3*		
24				1.2*		
25				1.2*		
26				1.2*		
27				1.1*		
28				1.0*		
29				1.0*		
30				.9*		
31				1.2*		
				1.6*		
Mean				2.3		
Discharge ac-ft				91		
* Estimated					Total for period - 91 acre-feet	

TABLE A-3

DAILY MEAN DISCHARGE OF SHACKLEFORD DITCH

July 15, to September 23, 1957

In Second-Feet

Day	April	May	June	July	August	September
1				N	7.6	6.7
2					7.6	6.5
3				O	7.4	6.5
4					7.4	6.5
5					6.5	6.5
6				R		
7					5.6	6.5
8				H	5.6	6.3
9					5.6	5.9
10				C	6.8	5.8
11					8.4	5.8
12				O		
13				R	8.4	5.7
14					8.2	5.9
15				D	8.2	5.8
16				8.0	8.0	5.9
17				5.4	7.8	5.8
18				5.4	7.8	5.5
19				5.4	7.6	5.2
20				5.4	7.6	5.2
21				5.4	7.4	5.2
22				5.4	7.4	5.0
23				6.5	7.1	4.6
24				6.5	7.0	
25				7.8	6.9	
26						N
27				8.4	6.7	O
28				8.2	6.7	
29				8.2	7.0	R
30				6.3	7.1	E
31				3.6	7.0	C
				4.6	7.0	O
						R
						D
Mean				6.2	7.3	5.8
Discharge ac-ft				209	1118	261
				Total for period - 921 acre-feet		

TABLE A-4

DAILY MEAN DISCHARGE OF HOWARD-JONES DITCH

July 16, to September 16, 1957

In Second-Feet

Day	April	May	June	July	August	September
1						
2				N	N	N
3						
4				O	O	O
5						
6				R	F	F
7						
8				E	L	L
9						
10				C	O	O
11				O	W	W
12						
13				R		
14						
15				D		
16				3.6		
17				3.4		
18				3.2		
19				3.0		
20				2.8		
21				2.6		
22				2.5		
23				2.3		
24				2.2		
25				1.4		
26				0.9		
27				0.9		
28				0.9		
29				1.3		
30				2.4		
31				1.2		
Mean				2.2		
Discharge ac-ft				70		
				Total for period = 70 acre-feet		

TABLE A-5

DAILY MEAN DISCHARGE OF CAMP DITCH

June 4, to September 23, 1957

In Second-Feet

Day	April	May	June	July	August	September
1				4.6	3.0	1.9
2				6.4	2.9	1.9
3				4.2	2.8	1.9
4			6.5	3.4	2.7	1.8
5			8.3	3.1	3.6	1.8
6			8.2	3.1	4.7	1.8
7			8.0	3.2	4.4	1.7
8			7.9	3.0	4.2	1.8
9			7.5	4.5	4.2	1.8
10			7.4	6.2	2.6	1.7
11			7.3	5.6	2.6	1.7
12			7.1	4.7	2.6	1.6
13			7.1	3.5	2.6	1.6
14			7.0	4.2	2.6	1.6
15			6.6	4.7	2.5	1.6
16			6.4	4.9	2.5	1.8
17			6.3	4.6	2.5	1.9
18			6.3	4.2	2.4	1.9
19			6.3	4.1	2.4	1.8
20			6.2	3.9	2.4	1.8
21			N	3.7	2.4	1.7
22			O	3.5	2.4	1.6
23				3.4	2.3	1.6
24			R	3.3	2.3	N
25			E	3.1	2.2	O
26			O	2.6	2.2	R
27			R	2.0	2.1	E
28			D	2.0	2.1	O
29				2.6	2.1	C
30				3.7	2.0	O
31				3.1	2.0	R
Mean			7.1	3.8	2.7	1.8
Discharge ac-ft			238	233	166	82
Total for period - 719 acre-feet						

TABLE A-6

DAILY MEAN DISCHARGE OF SHACKLEFORD CREEK ABOVE ALL DIVERSIONS
January 1, 1957 to October 23, 1957

In Second-Feet

Day	January	February	March	April	May	June	July	August	September	October
1	20	*19	110	*76	126	151	35	11	9.0	11
2	19	*19	96	*72	109	138	34	11	8.4	10
3	17	*19	84	*76	94	131	31	11	8.4	11
4	*16	*19	158	84	102	130	29	11	8.4	13
5	*16	*19	197	101	124	126	27	11	8.4	15
6	*16	*19	219	107	142	110	26	11	8.1	18
7	*16	*19	179	*88	151	104	24	10	8.1	15
8	*16	*19	147	82	133	96	23	10	7.9	24
9	*16	*19	151	82	111	86	21	13	7.6	69
10	*16	*19	118	86	103	81	21	12	7.6	56
11	*16	*19	118	*86	98	77	20	12	7.6	39
12	*16	*19	117	86	100	80	19	12	7.6	48
13	15	21	97	79	103	71	19	12	7.4	76
14	16	29	85	98	91	65	19	11	7.1	49
15	17	31	78	81	87	59	18	11	7.1	35
16	17	33	70	74	97	56	17	11	6.8	28
17	*19	36	66	70	130	54	16	11	7.1	24
18	*19	37	61	66	263	55	16	10	6.6	19
19	*19	36	59	62	158	55	15	10	6.6	17
20	*19	34	60	59	124	53	15	10	6.3	16
21	*19	38	57	56	107	50	15	11	6.1	15
22	*19	56	53	57	97	49	14	10	5.6	13
23	*19	73	51	62	91	47	14	10	5.4	45
24	*19	234	52	62	95	47	13	9.6	5.4	
25	*19	192	103	63	105	46	13	9.6	5.2	
26	*19	343	97	66	117	45	13	9.3	15	
27	*19	198	84	75	136	45	12	9.3	26	
28	*19	136	91	97	145	44	12	9.6	15	
29	*19		*96	120	146	41	12	9.6	13	
30	*19		*88	131	148	38	12	9.3	11	
31	*19		86		156		11	9.0		
Mean Sec.Ft.	17.7	62.7	101	80.1	122	74.3	18.9	10.6	8.7	30.0
Total Ac.Ft.	1091	3481	6204	4768	7515	4423	1162	649	515	1366

* Estimated

Total for period - 31,174 acre-feet