

Orville Abbott

4.35

20

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

BIDWELL CREEK ADJUDICATION

REPORT ON
WATERMASTER SERVICE ON BIDWELL CREEK
AND
INVESTIGATION OF BIDWELL CREEK STREAM SYSTEM ADJUDICATION
MODOC COUNTY, CALIFORNIA
1957 SEASON

Sacramento, California
January, 1958

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

BIDWELL CREEK ADJUDICATION

REPORT ON
WATERMASTER SERVICE ON BIDWELL CREEK
AND
INVESTIGATION OF BIDWELL CREEK STREAM SYSTEM ADJUDICATION
MODOC COUNTY, CALIFORNIA
1957 SEASON

Sacramento, California
January, 1958

TABLE OF CONTENTS

	<u>Page</u>
SUBMISSION TO, AND ADOPTION BY THE DEPARTMENT OF WATER RESOURCES	ii
ORGANIZATION, STATE DEPARTMENT OF WATER RESOURCES	iii
INTRODUCTION	1
Authorization	2
Organization of Report	2
WATER SUPPLY AND DISTRIBUTION OF WATER	3
Precipitation	3
Stream Flow	3
Distribution of Water	3
Duty of Water	5

APPENDIXES

A. Records of Water Supply and Use of Water

Table No.

A-1	Monthly and Mean Precipitation at Fort Bidwell	A-1
A-2	Daily Mean Discharge of Bidwell Creek Above Bucher Upper Ditch	A-2
A-3	Miscellaneous Measurements on Bidwell Creek Stream System	A-3

B. Agreement for Trial Distribution During 1957 Season

PLATE

Hydrographs of Bidwell Creek Above Bucher Upper Ditch, 1955, 1956, and 1957

SUBMISSION TO, AND ADOPTION BY

DEPARTMENT OF WATER RESOURCES

I, William R. Gianelli, Principal Hydraulic Engineer and Chief of Water Rights Section, Department of Water Resources of the State of California, approve this "Report on Watermaster Service and Investigation of Bidwell Creek Adjudication, Modoc County, California, 1957 Season".

/s/ W. R. Gianelli

Chief, Water Rights Section

I, Harvey O. Banks, Director of the Department of Water Resources of the State of California, approve and adopt this "Report on Watermaster Service and Investigation of Bidwell Creek Adjudication, Modoc 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 22nd day of January, 1958.

State of California
Department of Water Resources

/s/ Harvey O. Banks

HARVEY O. BANKS
Director

SEAL

ORGANIZATION

STATE 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
direction of

William R. Gianelli
Chief, Water Rights Section

This report was prepared under the supervision of

Orville L. Abbott
Supervising Watermaster

By

R. Paul Art
Associate Hydraulic Engineer
and Watermaster



P. A. Towner Chief Counsel
Paul L. Barnes Chief, Division of Administration
Isabel C. Nessler Coordinator of Reports

INTRODUCTION

This is the third report prepared in connection with adjudication and distribution of water on Bidwell Creek stream system in Modoc County, California. Water was distributed on a trial basis during the 1955 and 1956 seasons, and reports were prepared for each of the seasons. The "Agreement for Trial Distribution on Bidwell Creek, 1957 Season" was mailed to all claimants on April 8, 1957, and became operative on April 23, 1957. This agreement was ultimately signed by claimants to 75 per cent of the water allotments as set forth in the agreement. A copy of this agreement is submitted as Appendix B of this report.

A history of the adjudication proceeding, up to and including completion of the field investigation for the 1956 irrigation season is given in "Report on Water Supply and Use of Water on Bidwell Creek Stream System, Modoc County, California, March 1956", and "Report on Investigation and Watermaster Service on Bidwell Creek and Investigation of Bidwell Creek Stream System Adjudication, Modoc County, California, 1956 Season", dated March, 1957. Copies of these reports were mailed to all known claimants to water on the stream system.

Proofs of claims of water rights filed by claimants to water during the fall of 1956 were condensed and summarized by the State Water Rights Board in the "Abstract of Proofs of Claims". A copy of this abstract was mailed to all claimants to water on May 31, 1957, and the claimants were notified that all evidence on record with the Board would be open to inspection of all interested persons at Fort Bidwell from August 19 through August 30, 1957. During this inspection period, representatives of the Water Rights Board and the Department were present and gave assistance to

the claimants. The time within which to file contests was extended by the State Water Rights Board until January 31, 1958, by order dated September 11, 1957.

Distribution of water on the stream system under the provisions of the trial distribution agreement for 1957 was begun on April 23, and continued throughout the irrigation season to September 30, 1957.

Authorization

Pursuant to Section 226 of the Water Code the Department of Water Resources supervised the distribution of water, in accordance with the "Agreement for Trial Distribution on Bidwell Creek, 1957 Season". The agreement was submitted in order to afford an opportunity to develop an allocation of water that might be acceptable to the parties as a basis for settlement of the water rights involved.

The investigation for adjudication of water rights was the responsibility of the State Water Rights Board and was made in accordance with the provisions of Chapter 3, Division 2 of the Water Code. Department of Water Resources personnel assisted the State Water Rights Board in their conduct of the adjudication proceeding.

Organization of Report

The report is presented to two sections as follows: (1) Introduction, and (2) Water Supply and Distribution of Water. Two appendixes follow the text and include Appendix A, Records of Water Supply and Use of Water, and Appendix B, Agreement for Trial Distribution on Bidwell Creek, 1957 Season. Plate 1 following the appendixes presents hydrographs of Bidwell Creek above Bucher Upper Ditch for 1955, 1956, and 1957.

WATER SUPPLY AND DISTRIBUTION OF WATER

The snow pack in Bidwell Creek watershed was slightly below mean on April 1, 1957; however, the rainfall on the valley floor at Fort Bidwell was above the mean for the season prior to April 1. These conditions provided a runoff of Bidwell Creek which is considered about normal.

Precipitation

Records of precipitation at Fort Bidwell, California, are presented in Table A-1 of Appendix A and show that the precipitation from October 1, 1956 to September 30, 1957, was 92 per cent of normal. Snow pack on the Cedar Pass snow course was 86 per cent of mean on April 1, 1957. The precipitation was about normal through the spring until about June 1; however, there was little precipitation for the remainder of the season.

Stream Flow

An automatic water stage recorder was maintained during the 1957 irrigation season on Bidwell Creek above Bucher Upper Ditch. This station is used to determine the flow available for distribution. Hydrographs of Bidwell Creek at this station for the 1955, 1956, and 1957 seasons are presented as Plate 1.

Distribution of Water

Miscellaneous measurements of the flow in several ditches are presented in Table A-3 of Appendix A.

Allotments of water on the stream are divided into two schedules in the 1957 agreement. The first schedule governs distribution of

irrigation allotments before July 10, and generally provides first priority irrigation water to all ranches. The second schedule comes into effect on July 10, and allocates the small amount of water available during that period to domestic, stockwater, and limited irrigation rights.

Water was available to supply all first priority rights until the middle of June and the first regulation of diversions took place on June 27. At that time water was available for approximately 60 per cent of first priority rights, as defined in Schedule 1 of the trial distribution agreement.

On July 10, when Schedule 2 became effective water was available to supply first, second, and 20 per cent of third priority allotments. The flow then steadily declined and by July 25, water was available for only first and second priority rights. By August 20, the flow had nearly stabilized with water available for about 40 per cent of second priority rights.

The Agreement for Trial Distribution for 1957 was generally adhered to by the watermaster with regard to signatory parties. The major deviation from the agreement schedules by non-signatory water users was in the diversion of water through the McConnaughy Upper Ditch. This Ditch was observed and regulated to some extent by the watermaster with permission of the owner. However, from July 10 through the first part of August, the flow in this Ditch was between one and two cubic feet per second above the amount set forth in the agreement.

There was considerable difficulty in getting first priority water to the users below the McConnaughy-McAuliffe Ditch (Diversion 13) from the latter part of July throughout the remainder of the season. On August 21, the channel had no water flowing from just below the Ward-Sagehorn

Ditch to the Sagehorn north property line. An attempt was made to get stockwater flowing in this portion of the channel with limited success.

Duty of Water

The investigation phase of the adjudication proceeding during 1957 was limited to the checking of physical facts previously determined. The amounts of water defined in the Agreement for Trial Distribution for 1957 were generally found to be adequate.

It was noted that the type of soil on the westerly portion of the McConnaughy North Ranch was similar to that of the westerly portion of the M. E. Conlan Ranch. Accordingly, it is recommended that the duty of water be changed to one second-foot for 40 acres, which allows this land the same duty of water assigned to the bordering M. E. Conlan Ranch.

The attempt to maintain stockwater in the stream channel to the northerly boundary of the Leo Sagehorn Ranch was based on the apparent wishes of the water users and on the policy of assigning higher priority to stockwater use than to irrigation use.

APPENDIX A

RECORDS OF WATER SUPPLY AND USE OF WATER

<u>Table No.</u>		<u>Page</u>
A-1	Monthly and Mean Precipitation at Fort Bidwell	A-1
A-2	Daily Mean Discharge of Bidwell Creek Above Bucher Upper Ditch	A-2
A-3	Miscellaneous Measurements on Bidwell Creek Stream System	A-3

TABLE A-1
MONTHLY AND MEAN PRECIPITATION AT FORT BIDWELL

Month	Precipitation 1956-1957	Mean precipitation
	In inches	
October	3.06	1.03
November	0.20	1.87
December	2.28	2.36
January	1.91	2.94
February	2.30	2.13
March	2.73	1.91
April	0.22	1.32
May	1.45	1.16
June	0.17	0.92
July	0.20	0.25
August	0	0.19
September	0.72	0.49
TOTALS	15.24	16.57

TABLE A-2

DAILY MEAN DISCHARGE OF BIDWELL CREEK ABOVE
BUCHER UPPER DITCH

April 5 to September 25, 1957

In Second-Feet

Day	April	May	June	July	August	September
1	NO	66	160	23	8.4	6.0
2		63	145	22	8.4	6.0
3	RECORD	57	140	22	8.0	6.0
4		51	125	20	8.0	5.7
5	48	51	123	18.0	8.0	5.7
6	50	57	120	17.0	7.9	5.7
7	47	65	105	16.1	7.9	5.7
8	46	83	99	15.6	7.9	5.7
9	49	90	87	15.6	7.7	5.7
10	52	87	80	16.1	7.7	5.7
11	55	85	65	15.6	7.3	5.7
12	54	83	63	15.0	7.3	5.7
13	54	83	61	14.2	7.3	5.7
14	58	80	54	13.1	8.1	5.7
15	55	73	53	12.6	7.3	5.7
16	54	77	47	12.6	6.2	5.7
17	52	83	42	12.6	6.2	5.7
18	51	87	40	12.6	6.2	5.7
19	45	83	39	12.0	6.0	5.7
20	40	77	39	12.0	6.0	5.6
21	36	65	38	7.17	11.6	5.6
22	34	65	37	6.84	11.0	5.5
23	34	65	34	6.50	10.3	5.5
24	34	65	32		9.8	5.5
25	34	68	31		9.1	5.5
26	36	73	30		9.0	NO
27	40	90	29		8.8	6.2
28	48	121	25		8.6	6.1
29	55	140	24		8.4	6.0
30	66	130	23		8.4	6.0
31	—	140	—		8.4	6.0
Mean	47	80	66	13.6	6.9	5.7
Runoff ac-ft	2,430	4,960	3,940	834	425	282

Total for period - 12,870 acre-feet

TABLE A-3

MISCELLANEOUS MEASUREMENTS ON BIDWELL CREEK STREAM SYSTEM

Point of measurement	Date 1957	Amount of water, in second-feet
Ward-Sagehorn Ditch	June 5	4.2
	June 24	4.2
Ward-Sagehorn-Dodson Ditch	June 5	7.5
	June 24	3.2
M. E. Conlan lateral of Siebeck Ditch	June 7	6.3
	June 9	6.0
	June 10	5.6
	June 11	5.3
	June 13	4.2
	June 22	1.8
	June 23	1.6
	June 24	1.4
	June 25	2.7
	June 27	2.7
	June 30	1.8
July 1	2.8	
Cole-McManus Ditch	June 24	2.5
	July 22	0.7
Fee Ditch	June 24	5.9
	July 22	0.5
McConnaughy Upper Ditch	July 10	3.1
	July 11	2.0
	July 16	2.4
	July 22	2.3
	July 29	1.6
	August 2	1.1
McAuliffe Ditch	July 11	2.7
	July 16	2.3
	July 22	0
	August 2	1.1
Siebeck Ditch	July 11	1.9
	July 16	0.8
	July 22	1.4
	July 29	1.1
McConnaughy-McAuliffe Ditch	July 11	2.4
	July 22	4.3
O'Callaghan lateral of Fee Ditch at O'Callaghan House	July 11	1.2
	September 25	0.8

APPENDIX B
AGREEMENT FOR TRIAL DISTRIBUTION
1957 SEASON

AGREEMENT FOR TRIAL DISTRIBUTION ON BIDWELL CREEK,
1957 SEASON

WHEREAS, there is pending before the State Water Rights Board of the State of California a determination of rights under Part 3, Division 2 of the Water Code, in which the rights in and to the water, and in and to the use thereof, from the Bidwell Creek stream system, of all of the parties hereunto subscribed are involved; and

WHEREAS, said Board or its predecessor in interest has completed its investigation of the stream system, conduits diverting therefrom, lands irrigated, and irrigable therefrom, and has prepared maps from its surveys and observations, ~~all in accordance with the provisions of the Water Code; and~~

WHEREAS, proofs of claims have been filed in the proceeding setting forth claims of various parties as to their rights; and

WHEREAS, it appears from the data collected and the materials contained in proofs of claims that it may be possible to work out an allocation of the water of Bidwell Creek stream system among the parties hereto that will be acceptable to all of the parties and afford a basis for settlement of the water rights involved in the proceeding; and

WHEREAS, the Department of Water Resources has available to it all of the records of the State Water Rights Board and through a service agreement, is performing for the Board the investigation in connection with the determination of rights of Bidwell Creek; and

WHEREAS, the parties hereto desire that diversions from the stream system be administered by the Department during the 1957 season to assist the parties to adjust conflicts among their proofs of claims, to obtain such additional engineering data as may be required, determine the practicability of distributing the water in accordance with the amounts and priorities of water rights as set forth in this agreement.

NOW THEREFORE, it is hereby agreed by and between each and every party hereunto subscribed, and among all parties, that the Department of Water Resources may distribute the waters of Bidwell Creek stream system among the various parties hereunto subscribed in accordance with Schedules 1 and 2 of this agreement, except as herein provided, it being understood and agreed that distribution of water shall be for the period extending from the date hereof to October 1, 1957, only.

NOW THEREFORE IT IS HEREBY AGREED by and between each and every party hereunto subscribed and among all the parties, that the Department of Water Resources may distribute the waters of Bidwell Creek stream system among the various parties hereunto subscribed, it being understood and agreed that distribution of water shall be for the period extending from the date hereof to October 1, 1957, only and subject to such provisions as are hereinafter contained to wit:

1. The Division of Water Resources Map, hereinafter referred to as D. W. R. Map, is the map prepared by the Department of Public Works of the State of California, Division of Water Resources, from its surveys made in 1955, which is entitled

"Bidwell Creek Stream System showing Diversions and Irrigated Lands, Modoc County, California", and is included as Plate 2 of the "Report on Water Supply and Use of Water on Bidwell Creek Stream System", March 1956.

2. The allotments of W. R. Cole to 1.37 cubic feet per second and E. B. McManus to 0.46 cubic foot per second as set forth in Schedules 1 and 2 are superior to all other rights on the Cole-McManus Ditch. Whenever the flow in the ditch is equal to or less than 1.83 cubic feet per second the water shall be divided three-fourths to the W. R. Cole Ranch and one-fourth to the E. B. McManus Ranch.

3. The L. Sagehorn allotment of 3.82 cubic feet per second in the Fee Ditch (Diversion 15 on the D.W.R. Map) as set forth in Schedules 1 as a second priority right and as set forth in Schedule 2 as a fourth priority right shall be considered satisfied when the total amount of water reaching that certain collecting ditch on the L. Sagehorn Ranch near the Fee Ranch, Inc. and L. Sagehorn property line, is equal to or greater than that allotment, and only the deficiency of that allotment reaching said collecting ditch shall be diverted through the Fee Ditch, provided further that Fee Ranch Inc. shall be entitled to divert the entire 3.13 cubic feet per second as set forth in Schedule 1 as a second priority right and as set forth in Schedule 2 as a fourth priority right and the L. Sagehorn Ranch shall not divert to use any of the said 3.82 cubic feet per second until such time as the right of Fee Ranch, Inc. is fully satisfied.

4. Granville Peterson shall be entitled to divert during any continuous 96 hour interval during the period from July 10 to July 16, a continuous flow of 2.0 cubic feet per second through the Granville Peterson Ditch (Diversion 7), provided however, said 2.0 cubic feet per second shall be diverted only at such times as the flow of Bidwell Creek above the Bucher Upper Ditch (Diversion 4) exceeds 11.0 cubic feet per second and provided further that after 2.0 cubic feet per second has been diverted continuously for 96 hours said water in the Ditch shall be shut off until August 1, at which time Granville Peterson shall be entitled to divert 0.10 cubic foot per second.

5. Robert F. McConnaughey is entitled to divert from Mill Creek such amounts of water as may be reasonably required for domestic purposes for those lands described as follows:

SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 26, T47N, R15E, MDB&M

SE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 26, T47N, R15E, MDB&M

NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 35, T47N, R15E, MDB&M

SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 35, T47N, R15E, MDB&M

NW $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 27, T47N, R15E, MDB&M

SW $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 27, T47N, R15E, MDB&M

and shall be entitled to divert from Bidwell Creek such amounts of water as may reasonably be required for domestic purposes for those lands described as follows:

SW $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 6, T46N, R16E, MDB&M

NW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 6, T46N, R16E, MDB&M

SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 6, T46N, R16E, MDB&M

SE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 6, T46N, R16E, MDB&M

6. The rights in and to the water, and in and to the use thereof, from Bidwell Creek stream system as set forth in Schedule 1 shall be for the period from the date hereof to July 9, both dates inclusive in 1956, and the rights set forth in Schedule 2 shall be for the period from July 10 to September 30 both dates inclusive in 1957.

7. Subject to the foregoing provisions, the parties enumerated in Schedules 1 and 2, hereunto annexed and made part hereof, shall be entitled to rights in and to the use of the natural flow of Bidwell Creek stream system for domestic, stock-watering, and irrigation purposes upon their respective lands involved in said proceeding as shown on the D. W. R. Map, in accordance with the acreage to be supplied, priorities and quantities of water allotted, and through the diversions from the sources named as set forth in Schedules 1 and 2.

8. All allotments set forth in Schedules 1 and 2 which are within the same priority class are equal in priority and correlative in right and at all times when the water supply available for rights within a priority class is inadequate to supply all rights and allotments within said class, then during the continuance of such shortage, the owners of such allotments shall prorate the available water supply if any, in excess of the quantity required for prior rights, in accordance with their respective allotments.

9. Although all quantities of water allotted to the claimants for direct application to beneficial use are expressed in terms of continuous flow, nevertheless, nothing herein contained shall be construed as limiting or restricting the right of any

claimant to rotate in the use of water or the right of any claimant to divert for limited period of time convenient "irrigation head", and thus apply water to his lands at a greater rate than indicated by the quantity of continuous flow allotted; provided, that this practice of rotation or use of "irrigation heads" shall not impair or infringe the rights of any other claimant.

10. The term "directly apply to beneficial use" means the direct conveyance and application of water diverted to beneficial use without intermediate storage, except such regulation as may be practiced for the purpose of equalizing the flow of water diverted for a convenient irrigation head.

11. The term "natural flow" means such a flow as will naturally occur at any given point in a stream from the runoff of the watershed which it drains, from springs which naturally contribute to the stream from seepage, and from waste and return flow from dams, conduits, and irrigated lands, as distinguished from released stored water.

12. The Department shall have power and authority to deviate from any plan of distribution which it may administer if, in its opinion, any changes are necessary or convenient in order to accomplish the purpose of this agreement.

13. Distribution of water in accordance with this agreement shall not in any manner prejudice the rights which are now claimed or may hereafter be asserted by any of the parties hereto.

14. The Department may appoint a watermaster to distribute the water of Bidwell Creek stream system, as herein provided for, during the period from the date hereof to October 1, 1957, and the

watermaster shall have power and authority to inspect and regulate the diversions of all the parties hereto in accordance with this agreement, and in the exercise of such authority may enter upon the lands of the parties for the purpose of such inspection and regulation, and may establish and maintain such gaging stations and measuring devices in the stream system and diversion conduits as may be necessary or convenient.

15. It is further agreed that in order to meet the costs of such distribution by the watermaster during the 1957 season, the parties hereto will pay to the Department of Water Resources on or before June 1, 1957, the amount of \$740.00, which amount shall be apportioned among the various parties hereto in accordance with the assessments set forth in Schedule 3 hereunto annexed and made a part hereof.

IN WITNESS WHEREOF, the parties hereto have affixed their hands
and seals,

<u>Name</u>	<u>Address</u>	<u>Date</u>
Gordon L. Doss	Fort Bidwell	April 23, 1957
Fee Ranch, Inc. by L. J. Fee	Fort Bidwell	April 23, 1957
C. G. Lowell by Walter R. Lowell	Fort Bidwell	April 23, 1957
M. E. Conlan by Robert L. Schluter	Fort Bidwell	April 23, 1957
J. A. Martin	Fort Bidwell	April 23, 1957
Leo Sagehorn	Fort Bidwell	April 23, 1957
R. A. Bucher	Fort Bidwell	April 23, 1957
United States Indian Service	Fort Bidwell	April 23, 1957
Elbert F. Dodson	Fort Bidwell	April 23, 1957
Roy Godfrey	Fort Bidwell	April 23, 1957
Nora McAuliffe by Jack Keneally	Fort Bidwell	April 23, 1957
Philip H. Peterson	Fort Bidwell	April 23, 1957
Cecil E. Oard	Fort Bidwell	May 13, 1957
Maurice O'Callaghan and Jerry A. O'Callaghan by Maurice O'Callaghan	Fort Bidwell	May 15, 1957
Edna McManus	Fort Bidwell	May 15, 1957
Nora M. Ward	Fort Bidwell	May 15, 1957
W. R. Cole	Fort Bidwell	May 22, 1957
G. T. Peterson	Fort Bidwell	May 31, 1957
Max Fulcher	Fort Bidwell	May 31, 1957

SCHEDULE 1

PRIORITIES AND ALLOTMENTS TO CLAIMANTS
FROM BIDWELL CREEK STREAM SYSTEM
MARCH 15 THROUGH JULY 9

Diversions number as per D.W.R. map	Name of diversion system	Name of claimant	Irrigated acreage	Allotments in cubic feet per second Priorities			
				1	2	3	Total
1	Toney-Youngman Ditch	G. K. Toney	120.0	1.60			1.60
		C. Youngman	160.0	1.60			1.60
2	Bray Upper Ditch	W. A. Bray	5.0	0.12			0.12
3.	Bray Lower Ditch	W. A. Bray	3.0	0.08			0.08
4.	Bucher Upper Ditch	C. F. Bucher	159.0			4.71	4.71
5.	Peterson-- Bucher Ditch	O. Sweeney	2.0	0.07			0.07
		G. T. Peterson	10.5	0.38			0.38
		C. F. Bucher	9.0	0.45			0.45
6.	Sweeney Ditch	O. Sweeney	3.5	0.18			0.18
7.	Granville Peterson Ditch	G. T. Peterson	21.0	0.50			0.50
8.	McConnaughy Ditch	C. E. Townsend	Domestic	0.01			0.01
		T. Jefferson & H. Drew	0.5	0.02			0.02
		R. L. Schluter	Domestic	0.01			0.01
		R. F. McConnaughy	379.0	4.56	1.42		5.98
9.	McAuliffe Ditch	T. Jefferson & H. Drew	2.0	0.05			0.05
		F. E. Bucher	Domestic	0.02			0.02
		Ed Peterson	5.1	0.13			0.13
		Nora McAuliffe	470.0	4.12	1.41		5.53
10.	Siebeck Ditch	T. Jefferson & H. Drew	3.0	0.04			0.04
		O. D. Hanks	Domestic	0.01			0.01
		M. W. Fulcher	26.4	0.66			0.66
		R. E. Godfrey	1.5	0.04			0.04
		V. V. Messner	1.0	0.03			0.03
		H. C. John	0.8	0.02			0.02

SCHEDULE 1

PRIORITIES AND ALLOTMENTS TO CLAIMANTS
FROM BIDWELL CREEK STREAM SYSTEM
MARCH 15 THROUGH JULY 9
(Continued)

Diversion number as per D.W.R. map	Name of diversion system	Name of claimant	Irrigated acreage	Allotments in cubic feet per second			
				Priorities			Total
				1	2	3	
10.	Siebeck Ditch (Continued)	Marjorie Hickerson	1.7	0.04			0.04
		C. H. Miles	0.6	0.02			0.02
		J. A. Martin	0.5	0.02			0.02
		P. H. Peterson	17.6	0.44			0.44
		B. N. Bock	1.9	0.05			0.05
		Ed Peterson	2.7	0.07			0.07
		M. E. Conlan	341.0	4.00	2.13		
11.	Bucher Lower Ditch	C. F. Bucher	11.5	0.38			0.38
12.	Indian Ditch	J. Green	5.6	0.14			0.14
		R. R. Baty	5.1	0.13			0.13
		U. S. Department of Interior, Indian Service	95.6	1.40			1.40
13.	McConnaughy- McAuliffe Ditch	R. A. Bucher	1.7	0.06			0.06
		H. A. O'Leary	Domestic	0.02			0.02
		R. M. Powell	Domestic	0.05			0.05
		R. Peterson	Domestic	0.03			0.03
		L. Kafader	Domestic	0.03			0.03
		L. Vaughn	3.0	0.06			0.06
		M. L. Hanks	Domestic	0.03			0.03
		J. H. Mankin	Domestic	0.03			0.03
		H. B. Collins	Domestic	0.03			0.03
		S. A. Peterson	Domestic	0.03			0.03
		S. Cambridge	Domestic	0.03			0.03
		J. A. Martin	Domestic	0.01			0.01
		R. F. McConnaughy	289.5	2.20	3.04		5.24
		Nora McAuliffe	168.0	2.10			2.10
14.	Town Ditch	W. Crow	Domestic	0.04			0.04
		E. C. Mathewson	Domestic	0.02			0.02
		M. Toney	Domestic	0.02			0.02
		C. Mathews	Domestic	0.02			0.02

SCHEDULE 1

PRIORITIES AND ALLOTMENTS TO CLAIMANTS
 FROM BIDWELL CREEK STREAM SYSTEM
 MARCH 15 THROUGH JULY 9
 (Continued)

Diversion : number as : per D.W.R. : map :	Name : of : diversion : system :	Name : of : claimant :	Irrigated : acreaage :	Allotments			
				in cubic feet per second			
				Priorities			
				1	2	3	Total
15.	Fee Ditch	C. E. Parke	18.5	0.22			0.22
		E. F. Dodson	95.5	1.12			1.12
		Fee Ranch, Inc.	762.3	5.84	3.13		8.97
		J. & M. O'Callaghan	244.5	2.88			2.88
		L. Sagehorn	325.1		3.82 ^a		3.82
16.	MacDonald Pump	J. A. MacDonald	Domestic	0.02			0.02
17.	Kober Ditch	H. Kober	1.0	0.05			0.05
18.	Parke-Dodson-Ward Ditch	C. E. Parke	17.0	0.20			0.20
		E. F. Dodson	18.5	0.22			0.22
		N. M. Ward	30.5	0.36			0.36
19.	Cole-McManus Ditch	N. M. Ward	6.9	0.09			0.09
		E. B. McManus	231.2	2.89 ^b			2.89
		W. R. Cole	109.5	1.37 ^b			1.37
20.	Ward-Sagehorn Ditch	N. M. Ward	42.5	0.50			0.50
		L. Sagehorn	75.0	0.88			0.88
21.	Ward-Sagehorn-Dodson Ditch	N. M. Ward	41.0	0.48			0.48
		E. F. Dodson	46.0	0.54			0.54
		L. Sagehorn	72.5	0.85			0.85
22.	O'Callaghan Ditch	J. & M. O'Callaghan	32.5	0.38			0.38
23.	Sagehorn Ditch	L. Sagehorn	152.0	0.79	1.00		1.79
25.	Bucher Spring	C. F. Bucher	Supplemental	0.10			0.10
		T. Jefferson &	3.5		0.06		0.06
		H. Drew					
	Lowell Ditch	C. G. Lowell	2.1	.04			0.04
15A	Mathews Pump	C. V. Mathews	Domestic	.02			0.02

SCHEDULE 1

PRIORITIES AND ALLOTMENTS TO CLAIMANTS
 FROM BIDWELL CREEK STREAM SYSTEM
 MARCH 15 THROUGH JULY 9
 (Continued)

Diversions number as per D.W.R. map	Name of diversion system	Name of claimant	Irrigated acreage	Allotments in cubic feet per second			
				Priorities			Total
				1	2	3	
15B	Doss Pump	G. L. Doss	2.5	.05			0.05
	McConnaughey (Mountain Land)	R. F. McConnaughey			c		
TOTALS				46.09	13.88	6.84	66.81

- a See paragraph 3
- b See paragraph 2
- c See paragraph 5

SCHEDULE 2

PRIORITIES AND ALLOTMENTS TO CLAIMANTS
FROM BIDWELL CREEK STREAM SYSTEM
JULY 10 THROUGH SEPTEMBER 30

Diversion: Number as: per DWR map	Name of diversion system	Name of claimant	Irrigated: acreage	Allotments in cubic feet per second Priorities					Total
				1	2	3	4	5	
1	Toney-Youngman Ditch	G. K. Toney	120.0	1.60					1.60
		C. Youngman	160.0	1.60					1.60
2	Bray Upper Ditch	W. A. Bray	5.0	0.12					0.12
3	Bray Lower Ditch	W. A. Bray	3.0	0.08					0.08
4	Bucher Upper Ditch	C. F. Bucher	159.0				4.71		4.71
5	Peterson- Bucher Ditch	O. Sweeney	2.0		0.07				0.07
		G. T. Peterson	10.5	0.10	0.28				0.38
		C. F. Bucher	9.0	0.10	0.35				0.45
6	Sweeney Ditch	O. Sweeney	3.5	0.10	0.08				0.18
7	Granville Peterson Ditch	G. T. Peterson	21.0	0.10		0.40 ^a			0.50
8	McConnaughy Upper Ditch	C. E. Townsend	Domestic	0.01					0.01
		T. Jefferson & H. Drew	0.5	0.02					0.02
		R. L. Schluter	Domestic	0.01					0.01
		R. F. McConnaughy	379.0	0.21		4.35	1.42		5.98
9	McAuliffe Ditch	T. Jefferson & H. Drew	2.0			0.05			0.05
		F. E. Bucher	Domestic	0.02					0.02
		Ed Peterson	5.1	0.02		0.11			0.13
		Nora McAuliffe	470.0	0.10		4.02	1.41		5.53
10	Siebeck Ditch	T. Jefferson & H. Drew	3.0			0.04			0.04
		O. D. Hanks	Domestic	0.01					0.01
		M. W. Fulcher	26.4	0.10		0.56			0.66
		R. E. Godfrey	1.5	0.03	0.01				0.04
		V. V. Messner	1.0	0.03					0.03
		H. C. John	0.8	0.02					0.02
		Marjorie Hickerson	1.7	0.03	0.01				0.04
		C. H. Miles	0.6	0.02					0.02

SCHEDULE 2

PRIORITIES AND ALLOTMENTS TO CLAIMANTS
 FROM BIDWELL CREEK STREAM SYSTEM
 JULY 10 THROUGH SEPTEMBER 30
 (Continued)

Diversion: Number as: per DWR : map :	Name of diversion system :	Name of claimant :	Irrigated: acreage :	Allotments in cubic feet per second					Total
				Priorities					
				1	2	3	4	5	
10	Siebeck Ditch (continued)	J. A. Martin	0.5	0.02					0.02
		P. H. Peterson	17.6	0.20	0.24				0.44
		B. N. Bock	1.9	0.03	0.02				0.05
		Ed Peterson	2.7	0.03	0.04				0.07
		M. E. Conlan	341.0	0.15	0.25	3.60		2.13	6.13
11	Bucher Lower Ditch	C. F. Bucher	11.5	0.10	0.28				0.38
12	Indian Ditch	J. Green	5.6	0.05	0.09				0.14
		R. R. Baty	5.1	0.05	0.08				0.13
		U. S. Department of Interior, Indian Service	95.6	0.20		1.20			1.40
13	McConnaughy- McAuliffe Ditch	R. A. Bucher	1.7	0.06					0.06
		H. A. O'Leary	Domestic	0.02					0.02
		R. M. Powell	Domestic	0.05					0.05
		R. Peterson	Domestic	0.03					0.03
		L. Kafader	Domestic	0.03					0.03
		L. Vaughn	3.0	0.06					0.06
		M. L. Hanks	Domestic	0.03					0.03
		J. H. Mankin	Domestic	0.03					0.03
		H. B. Collins	Domestic	0.03					0.03
		S. A. Peterson	Domestic	0.03					0.03
		S. Cambridge	Domestic	0.03					0.03
		J. A. Martin	Domestic	0.01					0.01
		R. F. McConnaughy	289.5	0.30	1.90		3.04		5.24
		Nora McAuliffe	168.0	0.20	1.90				2.10
14	Town Ditch	W. Crow	Domestic	0.04					0.04
		E. C. Mathewson	Domestic	0.02					0.02
		M. Toney	Domestic	0.02					0.02
		C. Mathews	Domestic	0.02					0.02
15	Fee Ditch	C. E. Parke	18.5	0.08		0.14			0.22
		E. F. Dodson	95.5	0.08		1.04			1.12

SCHEDULE 2

PRIORITIES AND ALLOTMENTS TO CLAIMANTS
 FROM BIDWELL CREEK STREAM SYSTEM
 JULY 10 THROUGH SEPTEMBER 30
 (Continued)

Diversion: number as: per DWR : map :	Name of diversion system :	Name of claimant :	Irrigated: acreage :	Allotments in cubic feet per second				
				Priorities				
				1 :	2 :	3 :	4 :	5 :Total
15	Fee Ditch (continued)	Fee Ranch, Inc. J.&M. O'Callaghan L. Sagehorn	762.3 244.5 325.1	0.08 0.08	5.76 2.80	3.13		8.97 2.88 3.82 ^b
16	MacDonald Pump	J. A. MacDonald	Domestic	0.02				0.02
17	Kober Ditch	H. Kober	1.0	0.05				0.05
18	Parke-Dodson- Ward Ditch	C. E. Parke E. F. Dodson N. M. Ward	17.0 18.5 30.5		0.20 0.22 0.36			0.20 0.22 0.36
19	Cole-McManus Ditch	N. M. Ward E. B. McManus W. R. Cole	6.9 231.2 109.5	0.06 0.18	0.09 2.83 ^c 1.19 ^c			0.09 2.89 1.37
20	Ward-Sagehorn Ditch	N. M. Ward L. Sagehorn	42.5 75.0	0.10	0.40 0.88			0.50 0.88
21	Ward-Sagehorn- Dodson Ditch	N. M. Ward E. F. Dodson L. Sagehorn	41.0 46.0 72.5		0.48 0.54 0.85			0.48 0.54 0.85
22	O'Callaghan Ditch	J.&M. O'Callaghan	32.5		0.38			0.38
23	Sagehorn Ditch	L. Sagehorn	152.0		0.79	1.00		1.79
25	Bucher Spring	C. F. Bucher T. Jefferson & H. Drew	Supplemental 3.5	0.10		0.06		0.10 0.06
	Lowell Ditch	C. G. Lowell	2.1	0.04				0.04
15A	Mathews Pump	C. V. Mathews	Domestic	0.02				0.02

SCHEDULE 2

PRIORITIES AND ALLOTMENTS TO CLAIMANTS
 FROM BIDWELL CREEK STREAM SYSTEM
 JULY 10 THROUGH SEPTEMBER 30
 (Continued)

Diversion: number as: per DWR map	Name of diversion system	Name of claimant	Irrigated: acreage	Allotments in cubic feet per second					Total
				Priorities					
				1	2	3	4	5	
15B	Doss Pump	G. L. Doss	2.5	0.05					0.05
	McConnaughy (Mountain lands)	R. F. McConnaughy		d					
TOTALS			7.21	5.66	33.28	13.82	6.84	66.81	

- a See paragraph 4
- b See paragraph 3
- c See paragraph 2
- d See paragraph 5

SCHEDULE 3

APPORTIONMENT OF COST OF WATERMASTER SERVICE
ON BIDWELL CREEK STREAM SYSTEM DURING
1957 SEASON

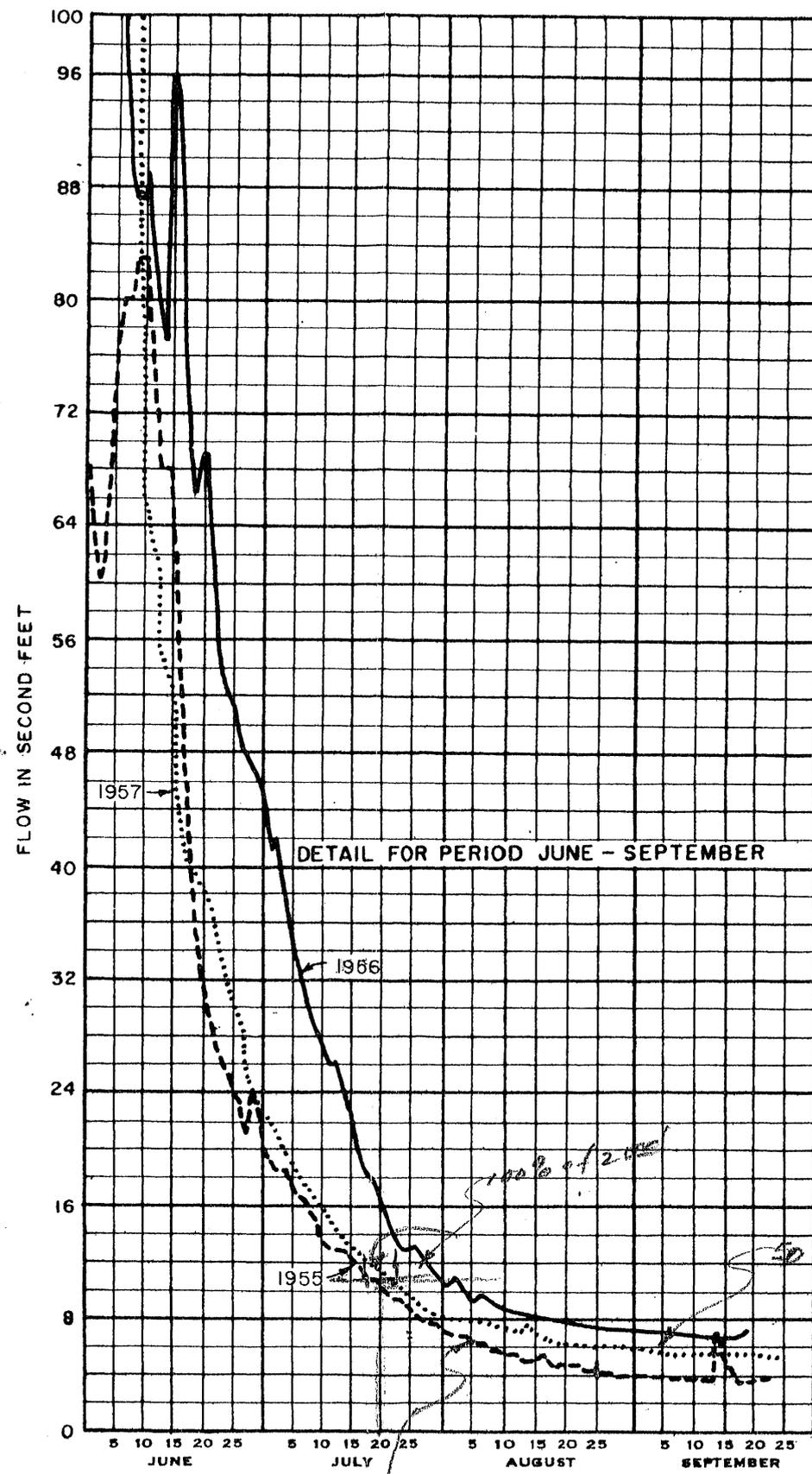
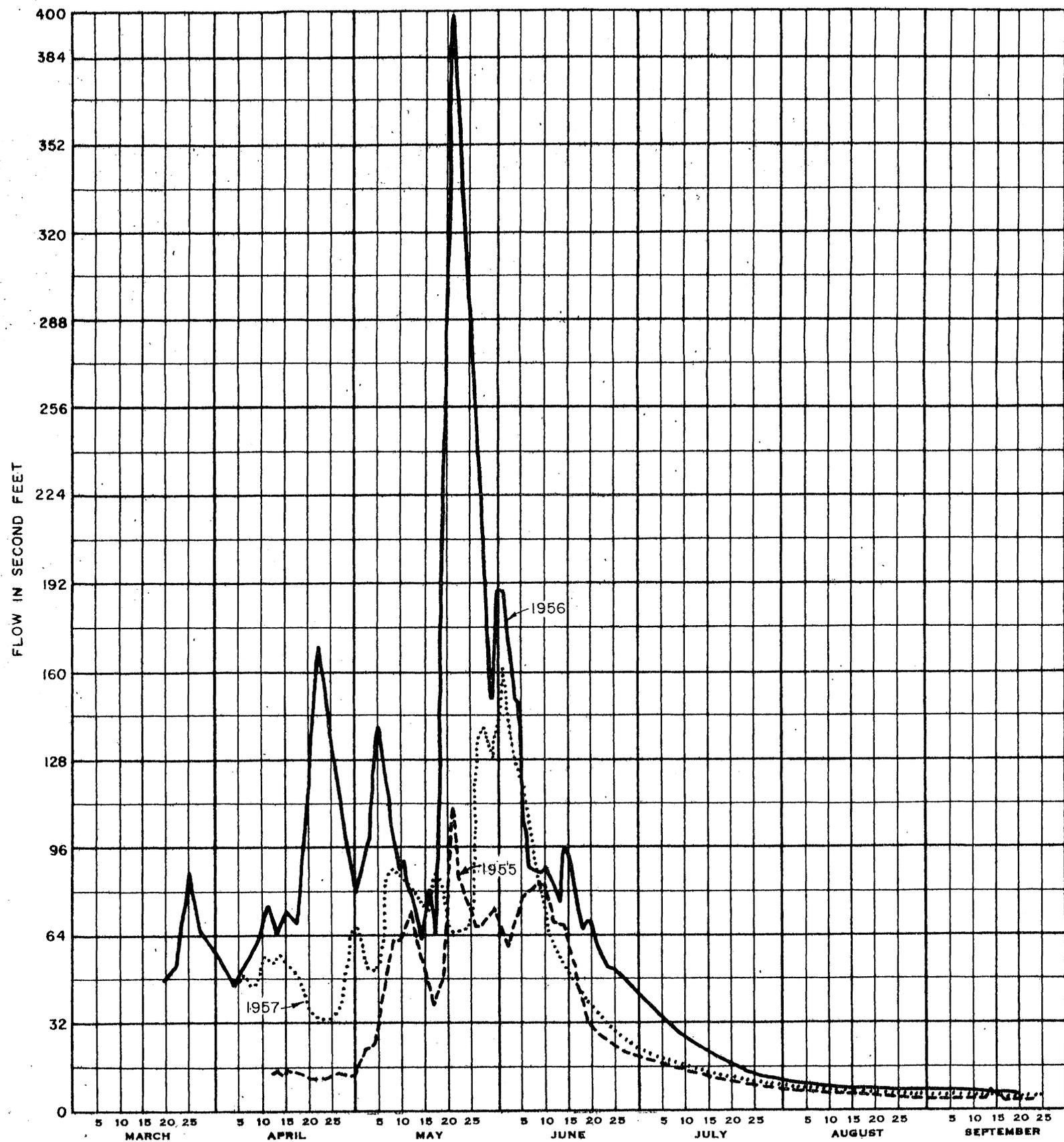
Name of user	:Continuous flow: : allotment : : in cubic feet : : per second :	\$	Portion of Expense
Baty, Roy R. and Baty, Violet M.	0.13	\$	2.67
Bock, Byron N. and Bock, Beda S.	0.05		1.87
Bray, William A. and Bray, Ruby E.	0.20		3.36
Bucher, Carl F. and Bucher Montez S.	5.64		57.59
Bucher, Fred E. and Bucher, Mabel	0.02		1.57
Bucher, Reuel A. and Bucher, Thelma A.	0.06		1.97
Cambridge, Stella	0.03		1.67
Cole, W. R. and Cole, Esther	1.37		15.03
Collins, Henry B. and Pollock, Ethel Victory	0.03		1.66
Conlan, M. E.	6.13		62.48
Crow, William and Crow, John W.	0.04		1.77
Dodson, Elbert F. and Dodson, Barbara	1.88		20.11
Doss, Gordon L. and Doss, Fern A.	0.05		1.87
Fee Ranch, Inc.	8.97		90.79
Fulcher, Max W. and Fulcher, Anna	0.66		7.95
Godfrey, Roy E. and Godfrey, Maxine E.	0.04		1.77
Green, Jewell	0.14		2.76
Hanks, Mattie L.	0.03		1.67
Hanks, Ora D.	0.01		1.47
Hickerson, Marjorie K.	0.04		1.77
Jefferson, Thomas and Drew, Harvey	0.17		3.06

APPORTIONMENT OF COST OF WATERMASTER SERVICE
ON BIDWELL CREEK STREAM SYSTEM DURING
1957 SEASON (continued)

Name of user	:Continuous flow: : allotment : : in cubic feet : : per second :	Portion of Expense
John, Henry C. and John, Marcella R.	0.02	1.57
Kafader, Louis and Kafader, Lillie	0.03	1.67
Kober, Henry	0.05	1.87
Lowell, Chester G.	0.04	1.77
MacDonald, John A. and MacDonald, Evelyn L.	0.02	1.57
Mankin, John H. and Mankin, Iva V.	0.03	1.67
Martin, John A. and Martin, Marion L.	0.03	1.67
Mathews, Claude V.	0.04	1.77
Mathewson, Edith C.	0.02	1.57
McAuliffe, Nora	7.63	77.43
McConnaughey, Robert F. and McConnaughey, Doris	11.22	113.22
McManus, Edna Blanche	2.89	30.18
Messner, V. V. and Messner, Fern L.	0.03	1.67
Miles, Chauncy Harold	0.02	1.57
O'Callaghan, Maurice and O'Callaghan, Jerry A.	3.26	33.87
O'Leary, Hugh A.	0.02	1.57
Parke, Charles E.	0.42	5.56
Peterson, Ed	0.20	3.36
Peterson, Granville T. and Peterson, Mary D.	0.88	10.14
Peterson, Philip H. and Peterson, Margaret L.	0.44	5.76
Peterson, Ralph and Peterson, Georgie	0.03	1.67
Peterson, Sadie A. and Bucher, Thelma A.	0.03	1.67
Powell, Russell M. and Powell, Alice Louise	0.05	1.87

APPORTIONMENT OF COST OF WATERMASTER SERVICE
ON BIDWELL CREEK STREAM SYSTEM DURING
1957 SEASON (continued)

Name of user	:Continuous flow: : allotment : : in cubic feet : : per second :	Portion of Expense
Sagehorn, Leo and Sagehorn, Marie	7.34	\$ 74.54
Schluter, Robert L. and Schluter Erma	0.01	1.47
Sweeney, Estate of William	0.25	3.86
Toney, George Kesner	1.60	17.32
Toney, Maxine L.	0.02	1.57
Townsend, C. E.	0.01	1.47
U. S. Department of Interior, Indian Service	1.40	15.33
Vaughn, Lewis and Vaughn, Gloria	0.06	1.97
Ward, Nora M.	1.43	15.62
Youngman, Clarence	1.60	17.32
TOTALS	66.81	\$ 740.00



HYDROGRAPHS OF BIDWELL CREEK ABOVE BUCHER UPPER DITCH FOR 1955, 1956 AND 1957 SEASONS