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

EDWARD HYATT, State Engineer

REPORT ON

WATERMASTER SERVICE

IN

NORTH FORK PIT RIVER WATERMASTER SERVICE AREA
MODOC COUNTY, CALIFORNIA
1945 SEASON

By
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Assistant Hydraulic Engineer

Sacramento, California

EDWARD HYATT, STATE ENGINEER
CHIEF OF DIVISION

EARL WARREN
GOVERNOR OF CALIFORNIA

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STATE OF CALIFORNIA
Department of Public Works
SACRAMENTO (5)

DIVISION OF WATER RESOURCES
401 PUBLIC WORKS BUILDING

March 8, 1946

Mr. Gordon Zander
Principal Hydraulic Engineer
Sacramento, California

Attention: Mr. Harrison Smitherum, Supervising Hydraulic Engineer

Dear Sir:

Herewith is submitted the annual report covering watermaster service within the North Fork Pit River Watermaster Service Area, Modoc County, California, during the 1945 season.

The report presents a general description of the work and a discussion of the results obtained. Records of precipitation, runoff and other pertinent data are included.

Respectfully submitted

J. VICTOR SCAMMON
Assistant Hydraulic Engineer

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REPORT ON
WATERMASTER SERVICE
IN
NORTH FORK PIT RIVER WATERMASTER SERVICE AREA
MODOC COUNTY, CALIFORNIA
1945 SEASON

INTRODUCTION

The North Fork Pit River Watermaster District, now termed Watermaster Service Area, Modoc County, California, was created by order of the Division of Water Resources entered December 18, 1939. As created the district embraced the water rights adjudicated by a decree entered December 14, 1939, by the Superior Court, Modoc County, "In the Matter of the Determination of the Rights of the Various Claimants to the Water of North Fork of Pit River and All Its Tributaries Except Franklin Creek, in Modoc County, California", No. 4074, with the exception of certain rights as set forth in said order.

By order dated December 13, 1940, the district was changed and enlarged by consolidating therein the Davis Creek, Franklin Creek and New Pine Creek Watermaster Districts, heretofore created by orders of the Division of Water Resources; and by adding thereto the water rights on Cottonwood Creek, Modoc County, California, adjudicated by decree entered May 6, 1940, by the Superior Court, Modoc County, in the case of Charles M. Oliver vs. Isaac Robnett, et al., No. 2344.

Watermaster service in the North Fork Pit River Watermaster Service Area, for the 1945 season covered the regulation of diversions on the North Fork of Pit River and all its tributaries and on Davis, Cottonwood and New Pine Creeks tributary to Goose Lake. This service was carried on throughout the 1945 season in accordance with the "Distribution of Water" procedure

contained in Sections 4000 to 4360, inclusive, of the Water Code. Such service extended over the period from April 1 to September 30, and was administered by deputy watermasters

J. V. Scammon, April 1 to May 8 - Entire Area

A. S. Wheeler, May 8 to September 31 - Entire Area

Harrison Smitherum was Supervising Watermaster.

WATER SUPPLY

Precipitation

The results of the annual snow surveys in California are shown in a bulletin prepared and published as of April 10th each year, by the Division of Water Resources. Table 1 of this report shows the snow survey data on the four stations located in the Upper Pit River Area, taken from said bulletin. The table is arranged to show the water content of snow pack at the beginning of the runoff period (April 1 to July 31) as compared with the average water content over the years of actual measurements.

Table 2 gives the monthly and seasonal record of precipitation at Lakeview, Oregon, Alturas, Bieber and Jess Valley, California, stations. The Lakeview station reflects the prevailing rainfall conditions in the Goose Lake Area wherein are located New Pine, Cottonwood, Davis, Linville and Franklin Creeks. The Jess Valley station being upon the western slope of the South Warner Range gives a fairly accurate record of the prevailing storm conditions which miss the lower valley floors but bring considerable moisture to the higher elevations.

During the 1945 water distribution season the precipitation was as shown by Table 2. The snow pack and reservoir water made the irrigation supply ample. Good crops were grown and good harvesting weather lasted late into the fall.

Stream Flow:

Measuring stations equipped with water stage recorders were maintained on the various streams within the district as listed below:

New Pine Creek below Schroeders - rated section.*

Cottonwood Creek above all diversion - rated section

Davis Creek and Old Fish Wheel - rated section.

Linville Creek at Power House - 3-foot rectangular weir.

Franklin Creek above Erhman Ditch - 4-foot rectangular weir.

Joseph Creek below Wilson Ranch - rated section.

Thoms Creek at Alturas - Cedarville Highway Crossing - rated section.

Gleason Creek at Jones Ranch - 3 foot rectangular weir.

Parker Creek at Fogarty Ranch - rated section.

Parker Creek above Highway 395 - rated section.

North Fork Pit River above Upper XL Dam - rated section.

*New section established April 1, 1944.

The records of discharge for these stations are presented in Tables 3 to 13, inclusive, submitted at the end of this report. The daily discharges shown in Tables 12 and 13 are combined to give the results presented in Table 14.

A measuring station equipped with a staff gage which was read at frequent intervals throughout the season, was maintained on the North Fork of Pit River at Alturas. The record of discharge at this station is presented in Table 15. It indicates the flow passing out of the North Fork Area.

DISTRIBUTION OF WATER

Distribution on the various streams within the district was in accordance with the allotments and priorities set forth in the respective decrees. The flows available for distribution were determined from the measured discharge at the measuring stations. A summary of the results accomplished and of any difficulties encountered on each separate stream is given below.

New Pine Creek

The regulation of diversions from New Pine Creek was made in accordance with the allotments and priorities set forth in the decree in the case of Keller, et al, v. Jensen, et al., Superior Court, Modoc County, No. 2821, dated June 14, 1932.

A surplus of water was in New Pine Creek to June 26. The lands entitled to water through the Surplus Ditch had an ample early supply.

Stock water was kept flowing continuously in the California Ditch throughout the season. No difficulties were encountered in the distribution of water. The California ditch is in poor shape below the Perkins Ranch and should be cleaned before another season.

Water was diverted under Application 10207, Permit 5831, issued to Walter and Lawrence Butler whenever water was available. The quantities of water available for distribution were determined at the recorder station. Table 3 is a record of those quantities.

Cottonwood Creek

The regulation of diversions from Cottonwood Creek was made in accordance with the allotments set forth in the Cottonwood Creek Judgment and Decree No. 2344, which sets forth the several rights and priorities.

The amounts of water available for distribution were determined at the recorder station above all diversions and are tabulated in Table 4.

Davis Creek

The regulation of diversions from Davis Creek was made in accordance with the Davis Creek Decree No. 2782, which sets forth the several rights and priorities. The quantities available for regulation were determined from the recorder station at the old fish wheel on Davis Creek. The record of the amounts of flow which were available for regulation below the recorder are shown in Table 5. Two upper diversions above the recorder are not added to Table 5. These two diversions, the Mulkey-Hergford Ditch and the Roberts Ditch divert 0.70 c.f.s. and 0.40 c.f.s., respectively.

Linville Creek

The regulation of diversions from Linville Creek was made in accordance with Schedule 3 of the North Fork Judgment and Decree No. 4074, which sets forth the several rights and priorities. The quantities available for regulation were determined at the recorder station. A record of these quantities is presented in Table 6.

Franklin Creek

The regulation of diversions from Franklin Creek was made in accordance with the Franklin Creek Decree No. 3118, which sets forth the several rights and priorities. The quantities available for regulation were determined at the recorder station located a short distance above the head of the Erhman Ditch.

The flow available for distribution and regulation from Franklin Creek was determined at the recorder station. A record of these quantities is presented in Table 7.

Joseph Creek

The regulation of diversions of the natural flow of Joseph Creek was made in accordance with Schedule 4 of the North Fork Pit River Judgment

and Decree No. 4074, which sets forth the several rights and priorities. The flow available for regulation was determined by adding the return flow from the lands of the I. K. Wilson Ranch to the flow measured at the recorder station which is located on Joseph Creek below the confluence with Couch Creek. Table 8 is a record of the flow which passed the recorder station. No water was released during the fall months from Halls Meadows Reservoir. Some water was released during the early spring so that damage to the dam would not occur.

Thoms Creek

The regulation of diversions from Thoms Creek was made in accordance with Schedule 5 of the North Fork of Pit River Judgment and Decree No. 4074, which sets forth the several rights and priorities. The quantities available for distribution were determined by adding the amount of water diverted above the recording gage at the Cedarville-Highway Crossing to the water available at that point. A record of the flow at the highway crossing is given in Table 9.

Gleason Creek

The regulation of the diversions from Gleason Creek was made in accordance with Schedule 6 of the North Fork Pit River Judgment and Decree No. 4074, which sets forth the several rights and priorities. The quantities available for distribution were determined at the recorder and weir station at the Jones Ranch and by observing flow at upper diversions through miners inch boxes.

Table 10 is a record of the flow measured at the recorder station.

Parker Creek (including Shields Creek)

The regulation of diversions from Parker Creek and its tributary,

Shields Creek, was made in accordance with Schedule 7 of the North Fork Pit River Judgment and Decree No. 4074, which sets forth the several rights and priorities.

During April and May, water was available for all priorities. During the period of May 25 to June 17, water was short and only about 75 per cent of third priority allotment was available. Heavy June rains relieved the shortage which did not occur again until the middle of July. By this time haying was ready to start and less irrigation water was necessary. The only demands for water during August and September were for stock.

Table 11 is a record of the flow at the Fogarty Ranch Station.

The amounts of water available for regulation for Parker Creek are determined by adding to the available flow measured at the Fogarty Ranch, the total of all upper diversions excluding those on Shields Creek.

North Fork Pit River

The regulation of the diversions from the North Fork Pit River was made in accordance with Schedule 8 of the North Fork Pit River Judgment and Decree No. 4074, which sets forth the several rights and priorities. The quantities of water available for distribution were determined by adding the flow of the North Fork of Pit River, measured above the Upper XL Dam, to the flow of Parker Creek measured above Highway 395. The separate and combined records of said flows are shown in Tables 12, 13 and 14.

OWNERSHIP OF LANDS AND WATER RIGHTS

Changes in Ownership

On September 30th, a search was made through the official records of Modoc County for the current changes in ownership in lands and water

rights embraced in the North Fork Pit River Watermaster Service Area. Further assistance came from various persons living throughout the area who contributed information concerning property transfers.

The changes in ownership of lands and water rights, which have occurred subsequent to filing "Statement for North Fork Pit River Water District, County of Modoc, California, for 1945", are listed in the following tabulation. The new names should appear in the 1946 statement.

Tract No.	Name of Water Right Owner Appearing in 1945 Statement	Name of Water Right Owner to Appear in 1946 Statement	Amount of Water c.f.s.
9-2	Amy Ousley and Estate of A. J. Ousley	Patrick J. Hallinan and Mildred Hallinan	2.03
9-16	Clara Vernon	J. R. Moore	0.76
9-34	Perry O. and Mabel M. Clark	Howard and Idella F. Kincaid	0.40
9-45	Bixby-Huffman Cattle Company, Ltd.	Roger Jessup Farms Company	26.65
9-65	Bixby-Huffman Cattle Company, Ltd.	Reginald A. Bradley, Earle G. and Vida J. Whitten	3.39
9-58	M. T. and Sadie Keaton	G. F. and Agnes Brown	0.15
9-89	Estate of J. M. Royce	Margaret Royce	
9-98	Estate of J. M. Royce	Margaret Royce	
9-101	Georgia M. Jones	Harold G. and Zephyr D. Stains	2.00
9-107	R. T. Renner	G. A. Bell	3.20
9-109	Martha E. Page	Clifford E. and Lois Bailey	2.50

TABLE 1
SNOW SURVEY DATA—UPPER PIT RIVER

	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946
Eagle Peak Course Elev. 7500 Ft. Date of Survey	4/3	4/1	3/30	3/30	4/2	4/10	4/9	3/29	3/31	3/30	4/4	3/26	3/29	3/24	3/27	3/30	
Depth of Snow—Inches	24.3	13.3	43.8	38.1	9.9	66.1	50.5	47.3	71.3	27.2	38.4	35.1	38.6	56.7	35.5	63.5	
Water Content—Inches	11.0	5.2	18.7	14.3	3.3	22.6	22.1	17.5	23.6	10.4	15.6	13.8	14.7	23.7	13.5	22.2	
Density—Percent	45.3	39.1	42.6	37.5	33.3	34.2	43.7	37.1	33.1	38.2	40.6	39.3	38.1	41.8	38.0	35.0	
Record Average—Inches								14.32	15.35	14.8	14.9	14.8	14.8	15.5	15.3	15.8	
% of Record Aver.	78.0	36.3	131.0	100.0	23.0	158.0	154.0	122.0	153.7	70.5	104.7	93.3	99.3	152.9	88.2	140.5	
Cedar Pass Course Elev. 7200 Ft. Date of Survey	3/31	3/30	3/26	3/28	3/31	3/27	4/5	4/10	3/26	3/28	3/22	3/24	3/27	3/22	3/25	3/29	
Depth of Snow Inches	29.3	22.1	49.2	43.9	2.2	56.4	68.2	54.4	79.1	28.2	35.9	40.8	47.4	62.3	33.4	67.5	
Water Content Inches	13.3	8.3	19.8	16.3	0.9	21.1	26.2	21.6	25.2	10.5	14.6	17.9	19.3	25.8	12.3	22.4	
Density—Percent	44.4	37.6	40.3	37.1	40.8	37.4	38.4	39.6	31.8	37.2	40.7	43.8	40.7	41.4	36.8	33.2	
Record Average—Inches								15.9	16.9	16.3	16.1	16.3	16.0	17.2	16.9	17.2	
% of Record Average	82.0	50.4	118.0	102.5	5.7	133.0	165.0	136.0	149.1	64.4	90.7	109.0	120.6	150.0	72.8	130.2	

TABLE 1 (Continued)

	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946
Blue Lake Ranch Course Elev. 7300 Ft.			New	Course	1940												
Date of Survey											4/11	3/28	3/31	3/26	3/31	4/3	
Depth of Snow-Inches											16.3	18.8	28.9	34.9	23.0	44.0	
Water Content-Inches											6.4	8.5	11.7	15.3	8.5	15.8	
Density—Percent											39.2	45.2	40.5	43.8	37.0	35.9	
Record Average-Inches																	
% of Record Average																	
Adin Mountain Course— Elev. 6500 Ft.																	
Date of Survey	3/27	3/27	3/24	3/27	4/1	4/17	3/26	4/7	4/8	3/31	4/7	3/31	4/2	3/31	3/30	4/3	
Depth of Snow-In.	13.3	6.1	30.0	37.6	0	45.9	47.2	37.4	61.4	17.5	10.8	24.6	32.1	30.4	24.9	41.2	
Water Content-In.	6.1	2.9	13.3	14.1	0	18.8	20.0	16.7	28.1	8.1	4.3	11.3	13.9	13.2	9.4	15.8	
Density—Percent	45.6	47.3	44.3	37.5	0	40.9	42.4	44.8	45.8	46.2	39.8	45.9	43.3	43.4	37.8	38.4	
Record Average-In.								11.5	13.3	12.8	12.0	12.0	12.1	12.2	12.0	12.2	
% of Record Aver.	53.0	25.2	115.6	122.5	0	163.7	174.0	145.2	211.3	63.3	35.8	94.1	114.9	108.2	78.3	129.5	

TABLE 2

PRECIPITATION—UPPER PIT RIVER STATIONS—1929 to 1945
MONTHLY, SEASONAL AND AVERAGE AMOUNTS IN INCHES

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season
						Jess Valley, Modoc County, California, Elev. 5,400 ft.							
1940-1941	1.95	2.31	1.62	1.28	3.02	0.48	0.77	2.89	2.39	0.20	1.90	1.13	19.94
1941-1942	1.48	1.71	3.10	1.66	1.57	0.94	2.34	3.44	1.02	0	0.24	0.15	17.65
1942-1943	0.33	2.60	3.25	3.00	2.69	1.76	2.68	1.31	1.76	0.71	0	0	20.09
1943-1944	2.25	0.60	0.62	2.32	2.46	1.12	2.27	0.61	4.74	0.25	0	0.71	17.95
1944-1945	1.54	3.00	.55	1.73	3.80	2.70	.99	4.28	2.67	.05	.04	.59	21.94
16 Yr. Total	19.36	23.59	28.62	33.22	34.48	28.53	29.42	27.47	21.49	6.00	3.22	11.22	266.62
16 Yr. Rec. Mean	1.21	1.47	1.79	2.07	2.16	1.78	1.83	1.72	1.34	0.38	0.20	0.70	16.66
						Alturas, Modoc County, California, Elev. 4,460 ft.							
1940-1941	2.00	1.05	2.73	1.35	2.13	0.68	0.51	1.59	0.86	0.02	1.16	0.50	14.58
1941-1942	1.40	1.83	2.98	2.16	1.84	0.59	1.37	1.71	0.94	0	0.56	0.20	15.58
1942-1943	0.35	2.51	1.97	3.68	1.81	1.39	1.72	0.70	0.29	0.27	0	0.03	14.72
1943-1944	1.30	0.58	0.51	0.96	0.80	0.75	1.99	0.06	2.74	0.30	0	0.29	10.28
1944-1945	0.57	2.59	0.41	0.54	2.26	1.39	0.49	4.03	1.69	0.35	0.05	0.17	14.54
16 Yr. Total	16.16	19.39	26.61	30.19	25.30	19.60	17.17	16.69	11.84	3.47	2.94	5.79	195.15
16 Yr. Rec. Mean	1.01	1.21	1.66	1.89	1.58	1.22	1.07	1.04	0.74	0.22	0.18	0.36	12.20
						Lakeview, Lake County, Oregon, Elev. 4,759 ft.							
1940-1941	2.11	2.18	1.62	2.40	2.91	0.86	1.45	2.62	2.14	T	1.82	0.83	20.94
1941-1942	1.60	1.33	3.34	2.40	2.59	0.46	1.76	2.46	0.65	T	0.18	0.63	17.40
1942-1943	0.79	2.70	3.56	3.39	1.37	1.38	2.16	1.42	1.29	0.13	0	0	18.19
1943-1944	2.34	0.61	1.01	1.07	1.70	1.35	1.46	0.82	5.47	0.38	0.03	0.89	17.13
1944-1945	0.45	3.32	0.84	1.03	2.35	1.19	0.39	4.30	1.18	0.02	0.05	0.21	15.33
16 Yr. Total	17.92	20.61	29.07	27.81	29.56	22.50	20.63	21.68	18.19	2.42	2.95	8.45	221.79
16 Yr. Rec. Mean	1.12	1.29	1.82	1.74	1.85	1.41	1.29	1.36	1.14	0.15	0.18	0.53	13.86
						Bieber, Lassen County, California, Elev. 4,200 ft.							
1940-41	3.15	2.66	3.45	1.90	4.52	0.44	0.57	2.33	1.25	0.18	0.30	0.41	21.16
1941-1942	0.60	1.75	4.28	2.35	3.79	1.13	2.75	1.87	0.97	0	0.35	0.08	19.92
1942-1943	0.73	3.39	3.19	5.44	2.28	2.07	2.22	0.63	1.97	0.09	0	T	22.01
1943-1944	1.71	0.73	1.07	1.83	1.65	1.02	2.45	0.32	1.86	0.41	T	0.35	13.40
1944-1945	0.72	4.43	1.77	0.86	2.71	2.50	.67	3.13	1.21	0	0	0	18.00
16 Yr. Total	21.63	25.65	41.95	40.52	43.24	31.50	22.85	21.40	11.13	2.71	0.99	6.66	270.23
16 Yr. Record Mean	1.35	1.60	2.62	2.53	2.70	1.97	1.43	1.34	0.70	0.17	0.06	0.42	16.89

For records prior to 1940-1941, see 1940 Report.

TABLE 3

DAILY DISCHARGE IN CUBIC FEET PER SECOND
NEW PINE CREEK BELOW SCHROEDER'S
April 1 to September 30, 1945

Day	April	May	June	July	August	Sept.
1	30.0	95.0	32.0	17.0	8.8	6.5
2	30.0	102.	34.0	16.5	8.8	6.5
3	30.0	115.	36.0	16.0	8.6	6.5
4	30.0	110.	38.0	15.0	8.4	6.5
5	30.0	103.	41.5	15.0	8.2	6.5
6	29.0	95.0	40.0	14.0	8.0	6.5
7	29.0	89.0	38.0	14.0	7.9	6.4
8	28.5	87.0	36.0	14.0	7.7	6.3
9	28.0	87.0	36.0	14.0	7.7	6.2
10	27.0	95.0	36.0	14.0	7.7	6.1
11	30.5	87.0	35.0	14.0	7.7	6.0
12	36.0	75.0	34.0	13.5	7.7	6.1
13	40.0	66.0	33.5	13.5	7.9	6.2
14	40.0	62.0	33.5	13.0	8.0	6.2
15	43.0	56.0	33.5	13.0	8.0	6.3
16	43.0	103.	32.0	12.5	7.9	6.4
17	45.0	72.0	31.0	12.5	7.9	6.4
18	50.0	56.0	30.0	12.0	7.8	6.5
19	55.0	48.0	29.0	12.0	7.7	6.5
20	71.0	40.0	28.0	11.5	7.6	6.4
21	79.0	40.0	27.0	11.4	7.5	6.4
22	72.0	40.0	26.0	11.0	7.0	6.3
23	68.0	40.0	25.0	11.4	6.5	6.2
24	73.0	37.0	24.0	10.8	6.0	6.2
25	66.5	35.0	23.0	10.5	6.0	6.2
26	63.0	33.0	22.0	10.0	6.2	6.0
27	61.0	32.0	21.0	9.8	6.4	6.0
28	66.0	31.0	20.0	9.5	6.5	6.0
29	78.0	30.0	18.0	8.9	6.5	6.0
30	89.0	30.0	17.0	9.0	6.5	6.0
31		30.0		9.0	6.5	
Total Sec. Ft. Days	1460.5	2021.0	910.0	388.3	231.6	188.3
Mean Sec. Ft.	48.7	65.2	30.3	12.5	7.5	6.3
Run-off in Acre-Feet	2900.	4010.	1800.	770.	459.	373.

183 day period - 10,300 acre-feet

TABLE 4

DAILY DISCHARGE IN CUBIC FEET PER SECOND
COTTONWOOD CREEK ABOVE DIVERSIONS
May 1 to September 30, 1945

Day	May	June	July	Aug.	Sept.
1	36.0	23.0	4.0	0.7	0.4
2	37.0	24.0	3.5	0.7	0.3
3	36.0	25.0	3.1	0.6	0.3
4	32.0	21.0	2.8	0.6	0.3
5	30.0	20.0	2.6	0.6	0.35
6	29.0	19.0	2.4	0.6	0.3
7	28.0	19.0	2.2	0.6	0.3
8	27.0	18.0	2.0	0.5	0.3
9	26.0	15.0	2.0	0.5	0.3
10	24.0	14.0	1.9	0.5	0.30
11	22.0	13.0	1.9	0.5	0.3
12	18.0	13.0	1.9	0.4	0.3
13	16.0	12.0	1.6	0.4	0.3
14	14.0	12.0	1.6	0.4	0.3
15	13.5	11.0	1.5	0.4	0.36
16	59.0	10.5	1.5	0.4	0.3
17	69.0	10.0	1.2	0.4	0.3
18	28.0	9.8	1.2	0.5	0.3
19	28.0	9.8	1.0	0.4	0.3
20	28.0	9.5	1.0	0.4	0.26
21	28.0	9.0	0.9	0.3	0.3
22	28.0	8.5	0.9	0.3	0.3
23	27.0	8.0	0.9	0.3	0.3
24	26.0	7.5	0.9	0.3	0.3
25	25.0	7.0	0.9	0.3	0.30
26	24.0	6.1	0.9	0.3	0.3
27	24.0	6.0	0.9	0.3	0.3
28	23.0	5.0	0.9	0.4	0.3
29	22.5	4.5	0.9	0.4	0.3
30	23.0	4.5	0.9	0.4	0.31
31	2.30		0.8	0.4	
Total Sec. Ft. Days	87.4	374.7	50.7	13.8	9.1
Mean Sec. Ft.	28.2	12.5	1.6	0.4	0.3
Run-off in Acre-feet	173.	743.	100.	27.4	18.

153 day period - 1060 acre-feet

TABLE 5

DAILY DISCHARGE IN CUBIC FEET PER SECOND
DAVIS CREEK AT OLD FISH WHEEL
April 1 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.
1	12.0	50.4	46.0	9.7	7.2	5.0
2	12.0	50.0	65.0	9.5	7.2	5.0
3	12.0	55.0	50.0	9.5	7.1	5.0
4	12.0	57.0	57.0	9.4	7.1	5.0
5	12.3	56.0	70.0	9.2	7.1	5.0
6	12.3	56.5	70.0	9.2	7.0	5.1
7	12.5	55.0	70.0	9.2	6.6	5.1
8	13.0	31.0	68.0	9.2	6.6	5.1
9	13.5	52.0	67.0	9.5	6.6	5.1
10	12.5	51.0	57.0	9.0	6.6	5.1
11	12.5	48.0	54.0	9.0	6.6	5.1
12	12.0	40.6	48.0	9.0	6.2	5.1
13	11.6	32.4	45.5	9.0	6.2	5.1
14	11.6	39.0	41.5	9.0	6.2	5.2
15	13.0	37.0	28.8	9.0	6.2	5.2
16	15.6	50.0	27.6	9.0	6.2	5.2
17	16.0	60.0	25.8	9.0	5.9	5.2
18	20.0	60.0	24.0	8.8	5.9	5.2
19	25.0	50.0	22.6	8.6	5.9	5.2
20	36.5	41.5	19.2	8.4	5.9	5.2
21	38.5	40.0	18.2	8.4	5.9	5.2
22	34.4	37.0	16.6	8.4	6.2	5.2
23	32.4	34.4	16.0	8.4	5.9	5.2
24	34.4	32.4	15.0	8.4	5.8	5.2
25	35.5	31.0	15.0	8.2	5.8	5.2
26	34.8	28.6	13.0	7.6	5.8	5.2
27	31.2	31.0	12.0	7.4	5.8	5.2
28	35.2	37.0	10.6	7.4	6.0	5.2
29	39.4	49.5	10.0	7.4	6.0	5.2
30	45.5	71.0	9.8	7.6	6.0	5.2
31		50.0		7.9	6.0	
Total Sec. Ft. Days	659.2	1414.3	1093.2	269.3	195.5	154.2
Mean Sec. Ft.	22.0	45.6	36.4	8.7	6.3	5.1
Run-off in Acre-feet	1310.	2800.	2170.	534.	388.	306.

183 day period - 7,500 acre feet

TABLE 6

DAILY DISCHARGE IN CUBIC FEET PER SECOND
LINVILLE CREEK AT OLD POWER HOUSE
April 1 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.
1	2.46	3.42	3.94	2.65	2.46	2.65
2	2.46	3.42	3.94	2.65	2.46	2.65
3	2.46	3.42	3.94	2.65	2.46	2.65
4	2.46	3.83	4.04	2.37	2.46	2.65
5	2.46	3.83	6.83	2.37	2.46	2.65
6	2.46	3.73	4.04	2.37	2.46	2.65
7	2.46	3.73	3.94	2.37	2.46	2.65
8	2.46	3.52	3.94	2.37	2.46	2.65
9	2.46	3.32	3.94	2.37	2.55	2.65
10	2.46	3.52	3.94	2.37	2.65	2.65
11	2.50	3.52	3.62	2.37	2.65	2.65
12	2.50	3.52	3.62	2.46	2.65	2.65
13	2.50	3.52	3.62	2.55	2.65	2.55
14	2.50	3.52	3.52	2.65	2.65	2.55
15	2.50	3.52	3.52	2.74	2.65	2.55
16	2.60	3.52	3.42	2.83	2.65	2.55
17	2.70	3.52	3.22	2.93	2.65	2.55
18	2.80	4.47	3.22	2.93	2.65	2.55
19	2.93	4.47	3.03	2.93	2.55	2.55
20	2.93	4.47	2.83	2.83	2.55	2.55
21	2.93	3.52	2.74	2.83	2.55	2.65
22	2.83	3.52	2.74	2.93	2.55	2.65
23	2.83	3.52	2.74	3.03	2.55	2.65
24	2.83	3.52	2.74	2.83	2.55	2.65
25	2.83	3.52	2.74	2.65	2.55	2.65
26	2.74	3.52	2.65	2.65	2.55	2.65
27	3.22	3.52	2.65	2.55	2.55	2.65
28	3.22	3.52	2.65	2.55	2.55	2.65
29	3.22	3.52	2.65	2.46	2.55	2.65
30	3.32	5.12	2.65	2.46	2.55	2.65
31		4.00		2.46	2.60	
Total Sec. Ft. Days	81.0	111.0	103.0	81.2	79.3	78.7
Mean Sec. Ft.	2.7	3.6	3.4	2.6	2.6	2.6
Run-off in Acre-feet	161.	220.	204.	161.	157.	156.

183 day period - 1060 acre-feet

TABLE 7

DAILY DISCHARGE IN CUBIC FEET PER SECOND
FRANKLIN CREEK ABOVE EHRMAN DITCH
April 1 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.
1	4.71	15.8	16.6	4.58	3.30	3.06
2	4.71	15.8	16.6	4.58	3.30	3.06
3	4.71	16.0	21.0	4.45	3.30	3.06
4	4.71	17.4	21.0	4.18	3.30	3.06
5	4.71	17.4	21.0	4.18	3.30	3.06
6	4.71	17.2	20.2	4.05	3.30	3.06
7	4.71	16.4	19.6	4.05	3.30	2.94
8	4.71	16.0	18.3	4.05	3.30	2.94
9	6.40	16.0	17.2	4.05	3.30	2.94
10	6.40	16.0	14.6	3.93	3.30	2.94
11	6.40	15.6	14.2	3.93	3.30	2.94
12	6.40	14.8	13.5	3.80	3.30	2.94
13	6.40	13.7	12.5	3.80	3.30	2.82
14	6.40	14.0	11.8	3.93	3.30	2.82
15	6.00	14.0	11.4	3.93	3.18	2.82
16	6.00	16.2	10.4	3.80	3.18	2.94
17	6.00	19.1	10.0	3.80	3.18	2.94
18	7.00	19.8	9.7	3.54	3.18	3.06
19	8.49	18.7	9.7	3.42	3.18	3.06
20	12.7	16.0	7.5	3.06	3.18	3.18
21	14.6	16.0	7.5	2.94	3.18	3.18
22	14.6	15.8	7.5	2.94	3.18	3.18
23	14.6	15.8	7.5	2.82	3.06	3.18
24	14.6	15.6	7.5	2.71	3.06	3.18
25	14.6	18.1	6.0	2.60	3.06	3.18
26	15.8	15.0	6.0	2.48	3.06	3.18
27	15.8	14.4	6.0	2.37	3.06	3.18
28	15.8	14.8	6.0	2.37	3.06	3.18
29	15.8	14.6	6.0	3.18	3.06	3.18
30	15.8	15.6	4.6	3.18	3.06	3.18
31		16.0		3.30	3.06	
Total Sec. Ft. Days	274.3	497.6	361.4	110.0	99.2	91.4
Mean Sec. Ft.	9.1	16.0	12.0	3.5		
Run-off in Acre-feet	544.	990.	717.	218.	197.	181.

183 day period - 2850 acre-feet

TABLE 8

DAILY DISCHARGE IN CUBIC FEET PER SECOND
JOSEPH CREEK BELOW COUCH CREEK
June 20 to September 30, 1945

Day	June	July	Aug.	Sept.
1		9.6	3.8	1.5
2		8.2	3.5	1.4
3		6.2	3.5	1.4
4		5.8	3.2	1.4
5	100.0*	5.8	3.1	1.5
6		5.4	3.1	1.5
7		4.2	3.2	1.4
8		4.2	3.1	1.4
9		5.3	3.0	1.4
10	50. *	7.2	2.8	1.4
11		5.2	2.8	1.4
12		4.2	2.8	1.4
13		3.6	2.7	1.4
14		3.5	2.6	1.3
15	25. *	3.4	2.6	1.3
16		3.2	2.6	1.8
17		3.1	2.4	1.9
18		3.1	2.4	1.9
19		2.9	2.0	1.9
20	17.8	3.0	2.0	2.0
21	17.4	3.0	1.8	2.2
22	17.0	3.2	1.7	2.2
23	16.8	3.3	1.6	2.4
24	15.6	3.5	1.5	2.6
25	15.2	3.5	1.4	2.6
26	14.6	3.7	1.7	2.6
27	13.5	3.7	1.7	2.6
28	12.4	3.9	1.7	2.6
29	11.2	3.9	1.5	2.6
30	10.8	4.0	1.5	2.6
31		4.0	1.5	
Total Sec. Ft. Days	162.3	136.8	74.8	55.6
Mean Sec. Ft.	14.7	4.4	2.4	1.8
Run-off in Acre-feet	**322	271.	148.	110.

* Estimated ** 11 Day Period 104 day period
850 acre-feet

TABLE 9

DAILY DISCHARGE IN CUBIC FEET PER SECOND OF
THOMS CREEK AT CEDARVILLE HIGHWAY CROSSING
April 1 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.
1	46.0	185.	160.	8.0	1.8	0.5
2	40.0	185.	153.	7.0	1.7	0.5
3	38.0	192.	167.	6.0	1.6	0.5
4	35.0	185.	167.	5.0	1.6	0.4
5	37.0	170	200.	4.7	1.3	0.4
6	42.0	160.	197.	4.7	1.3	0.4
7	40.0	160.	169.	4.7	1.3	0.3
8	38.0	90.0	106.	4.7	1.3	0.2
9	36.0	86.0	97.0	4.7	1.3	0.2
10	34.0	86.0	83.0	4.7	1.3	0.2
11	33.0	107.0	83.0	4.3	1.3	0.2
12	32.0	160.0	83.0	4.3	1.3	0.3
13	29.0	192.0	68.0	3.8	1.3	0.4
14	40.0	198.0	60.0	3.9	1.3	0.5
15	46.0	192.0	46.0	3.8	1.0	0.5
16	68.0	82.0	39.0	3.8	1.0	0.5
17	102.	107.0	32.0	2.8	1.0	0.4
18	160.	107.0	29.0	2.5	1.0	0.4
19	200.	86.0	26.0	2.1	1.0	0.4
20	220.	83.0	22.0	2.2	1.0	0.3
21	213.	102.	16.0	2.2	1.0	0.4
22	192.	178.	14.5	2.2	0.8	0.5
23	185.	164.	13.5	2.2	0.8	0.5
24	192.	120.	14.9	2.3	0.8	0.5
25	178.	102.	17.0	2.2	0.8	0.4
26	107.	37.5	11.0	2.2	0.8	0.4
27	103.	91.0	10.0	2.1	0.8	0.4
28	120.	97.0	9.5	2.1	0.8	0.4
29	178.	91.0	9.0	2.0	0.8	0.4
30	180.	97.0	8.0	2.0	0.8	0.4
31		192.		2.0	0.8	
Total Sec. Ft. Days	2964.0	4084.5	2110.4	111.2	34.7	11.8
Mean Sec. Ft.	98.8	131.7	70.3	3.6	1.1	0.4
Run-off in Acre-Feet	5880.	8100.	4190.	220.	69.	23.

183 day period -- 18,500 acre-feet

TABLE 10

DAILY DISCHARGE IN CUBIC FEET PER SECOND
GLEASON CREEK AT JONES' RANCH
April 5 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.
1		4.00	10.9	1.16	0.22	0.07
2		3.42	11.0	1.23	0.22	0.07
3		3.42	12.0	0.89	0.22	0.07
4		3.32	18.0	0.76	0.22	0.07
5	3.20	3.32	21.0	0.53	0.22	0.07
6	3.40	3.22	20.0	0.42	0.22	0.07
7	3.38	3.22	20.0	0.42	0.22	0.07
8	3.71	3.22	20.0	0.42	0.22	0.07
9	6.21	3.12	17.5	0.42	0.18	0.07
10	6.40	2.46	12.8	0.42	0.18	0.07
11	6.33	1.86	11.3	0.42	0.18	0.07
12	6.09	1.86	10.8	0.42	0.18	0.07
13	5.97	1.86	10.3	0.53	0.18	0.07
14	5.51	4.46	6.40	0.47	0.18	0.07
15	5.51	4.46	5.85	0.45	0.18	0.03
16	5.51	5.00	5.49	0.40	0.18	0.03
17	7.21	6.00	5.38	0.35	0.18	0.03
18	8.12	7.00	5.26	0.30	0.18	0.03
19	8.38	8.00	5.26	0.25	0.18	0.03
20	8.93	9.32	5.21	0.22	0.18	0.03
21	9.06	10.00	4.00	0.25	0.18	0.03
22	8.79	12.4	4.00	0.22	0.18	0.03
23	7.99	12.4	3.00	0.22	0.15	0.03
24	8.12	6.21	2.00	0.22	0.12	0.02
25	9.00	5.23	1.09	0.22	0.12	0.02
26	10.0	4.81	1.09	0.22	0.12	0.02
27	7.50	4.47	1.09	0.22	0.12	0.02
28	6.00	3.94	1.16	0.22	0.12	0.02
29	6.00	10.0	1.09	0.22	0.12	0.02
30	5.50	21.4	1.09	0.22	0.12	0.02
31		10.9		0.22	0.12	
Total Sec. Ft. Days	*171.8	184.2	78.1	12.9	5.4	1.4
Mean Sec. Ft.	* 6.6	5.9	2.6	0.4	0.2	0.4
Run-off in Acre-Feet	*340.	365.	155.	26.	16.	3.

* 26 day period 179 day period
900 acre-feet

TABLE 11

DAILY DISCHARGE IN CUBIC FEET PER SECOND
PARKER CREEK AT FOGARTY RANCH
April 7 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.
1		120	112.	23.0	11.9	4.0
2		118.	112.	22.0	11.0	3.5
3		114.	128.	19.0	10.2	2.8
4		112.	120.	18.0	10.2	2.6
5		104.	300.	17.0	10.2	2.6
6		104.	380.	18.0	10.2	2.6
7	56.0	98.0	350.	18.6	10.2	2.6
8	56.0	92.0	300.	19.0	10.2	2.6
9	50.0	86.0	213.	20.0	10.0	2.6
10	43.0	92.0	118.	20.0	10.0	2.6
11	45.0	74.0	102.	20.0	10.0	2.6
12	50.0	74.0	92.0	20.0	9.0	2.7
13	60.0	68.0	86.0	20.0	8.2	2.8
14	60.0	72.0	80.0	18.6	8.0	2.8
15	75.0	74.0	74.0	18.0	8.0	3.0
16	80.0	98.0	68.0	15.0	8.0	3.0
17	98.0	120.	61.0	13.0	8.0	3.0
18	129.	144.	58.0	13.0	7.4	3.0
19	167.	168.	54.0	13.0	7.4	3.0
20	190.	161.	50.0	12.0	7.8	3.0
21	202.	133.	39.0	13.0	7.8	3.9
22	133.	124.	38.0	13.0	6.4	3.9
23	120.	120.	38.0	12.0	6.0	3.9
24	180.	119.	36.0	12.0	6.1	3.9
25	125.	107.	38.0	11.9	6.0	3.9
26	110.	100.	38.0	11.9	5.9	3.9
27	108.	94.0	38.0	11.9	5.8	4.0
28	110.	106.	28.0	11.9	5.8	4.0
29	116.	98.0	27.0	11.9	5.8	4.0
30	120.	96.0	24.0	11.9	5.4	4.0
31		152.		11.9	5.0	
Total Sec. Ft. Days	*2483.	3342.	3202.	490.5	251.9	96.8
Mean Sec. Ft.	* 103.	108.	107.	15.8	8.1	3.2
Run-off in Acre-feet	*4920.	6630.	6350.	973.	500.	192.

*Denotes 24 day period 177 day period 19,600 acre-feet

TABLE 12

DAILY DISCHARGE IN CUBIC FEET PER SECOND
PARKER CREEK ABOVE HIGHWAY #395
April 6 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.
1		149.	214	26.0	6.7	1.6
2		138.	153.	25.0	7.2	1.8
3		135.	250	24.0	6.6	1.8
4		125.	220	23.0	6.4	2.0
5		116.	435.	23.0	6.4	2.2
6	57.0	101.	450.	23.0	7.2	2.2
7	63.0	94.0	349.	23.0	7.4	2.4
8	60.0	85.0	310.	22.0	7.2	2.4
9	59.0	75.0	210.	19.0	7.0	2.4
10	64.0	82.0	203.	18.0	7.0	2.3
11	60.0	91.0	100.	17.0	7.0	1.8
12	57.0	83.0	90.0	16.8	6.0	1.6
13	49.0	80.0	90.0	17.4	5.0	2.0
14	45.0	82.0	90.0	17.4	4.0	2.5
15	54.0	86.0	89.0	17.4	3.8	3.1
16	86.0	101.	85.0	16.0	3.5	3.2
17	109.	120.	80.0	13.4	3.3	4.0
18	146.	180.	70.0	12.2	3.2	4.2
19	250.	210.	60.0	11.8	3.2	4.2
20	248.	201.	50.0	11.8	3.3	5.2
21	280.	198.	48.0	11.8	3.3	6.6
22	245.	190.	48.0	11.0	3.3	6.6
23	210.	163.	46.0	11.0	3.1	6.4
24	234.	162.	45.0	11.0	3.0	6.4
25	210.	158.	44.0	10.8	2.5	6.4
26	150.	120.	40.0	10.4	2.5	5.0
27	133.	108.	36.0	10.7	2.5	5.2
28	135.	141.	33.0	10.7	2.2	5.4
29	136.	380.	30.0	10.0	1.4	5.4
30	140.	380.	29.0	8.4	1.5	5.4
31		385.		6.7	1.6	
Total Sec. Ft. Days	*3280.	4719.	3997.	489.7	138.3	111.7
Mean Sec. Ft.	131.	152.	133.	15.8	4.5	3.7
Run-off in Acre-Feet	*6510.	9360.	7930.	970.	274.	222.

* denotes 25 day period 178 day period 25,300 acre-feet

TABLE 13

DAILY DISCHARGE IN CUBIC FEET PER SECOND
NORTH FORK OF PIT RIVER ABOVE UPPER XL DAM
April 1 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.
1	300.	116.	250.0	7.8	3.2	3.4
2	310.	108.	300.	6.8	3.1	3.3
3	320.	108.	240.	6.2	3.1	3.3
4	290.	112.	360.	5.6	3.1	3.3
5	290.	87.0	495.	5.4	3.1	3.3
6	295.	86.0	460.	5.4	3.0	3.3
7	300.	76.0	410.	5.4	3.0	3.3
8	300.	63.0	310.	5.4	3.0	3.3
9	300.	50.0	190.	5.4	3.0	3.3
10	310.	5.0	140.	5.8	3.0	3.3
11	300.	57.0	130.	6.2	3.0	3.3
12	275.	53.0	94.0	6.4	3.0	3.3
13	267.	49.0	66.0	6.0	3.0	3.4
14	255.	56.0	45.0	6.0	2.9	3.6
15	275.	60.0	39.0	6.2	2.7	3.8
16	320.	290.	35.0	6.0	2.5	3.6
17	300.	430.	33.0	5.8	2.4	3.8
18	200.	400.	25.0	5.4	2.3	3.9
19	95.	340.	23.0	5.0	2.3	3.9
20	124.	310.	21.0	4.5	2.4	3.9
21	145.	152.	20.0	4.2	3.0	3.9
22	114.	136.	18.2	4.2	3.2	3.9
23	95.	110.	19.8	4.0	3.5	3.9
24	114.	126.	20.0	4.0	3.5	3.9
25	105.	100.	23.0	4.0	3.5	3.9
26	110.	79.0	21.2	3.9	3.5	3.9
27	76.0	72.0	15.0	3.8	3.5	4.0
28	72.0	72.0	13.0	3.7	3.5	4.0
29	105.	80.0	10.8	3.6	3.5	4.0
30	126.	123.	9.0	3.5	3.5	4.0
31		345.		3.4	3.5	
Total Sec. Ft. Days	6488.	4311.	3836.	159.	94.8	109.
Mean Sec. Ft.	216.	139.	128.	5.1	3.1	3.6
Run-off in Acre-Feet	12870.	8550.	7610.	315.	188.	216.

183 day period 29,750 acre-feet

TABLE 14

COMBINED DAILY DISCHARGE IN CUBIC FEET PER SECOND
NORTH FORK OF PIT RIVER AT UPPER XL DAM
PARKER CREEK ABOVE HIGHWAY 395
April 6 to September 30, 1945

Day	April	May	June	July	Aug.	Sept.
1		265.	464.	23.8	9.9	5.0
2		146.	453.	31.8	10.3	5.1
3		243.	490.	30.2	9.7	5.1
4		237.	580.	28.6	9.5	5.3
5		203.	930.	28.4	9.5	5.5
6	352.	187.	910	28.4	10.2	5.5
7	363.	170.	759.	28.4	10.4	5.7
8	360.	148.	620.	27.4	10.2	5.7
9	359.	125.	400.	24.4	10.0	5.7
10	374.	147.	343.	23.8	10.0	5.6
11	360.	148.	230.	13.2	10.0	5.1
12	332.	136.	184.	23.2	9.0	4.9
13	316.	129.	156.	23.4	8.0	5.4
14	300.	138.	135.	23.4	6.9	6.1
15	329.	146.	128.	23.6	6.5	6.9
16	406.	391.	120.	22.0	6.0	6.8
17	409.	550.	113.	19.2	5.7	7.8
18	346.	580.	95.0	17.6	5.5	8.1
19	345.	550.	83.0	16.8	5.5	8.1
20	372.	511.	71.0	16.3	5.7	9.1
21	425.	350.	68.0	16.0	6.3	10.5
22	359.	326	66.2	15.2	6.5	10.5
23	305.	273.	65.8	15.0	6.6	10.3
24	348.	288.	65.0	15.0	6.5	10.3
25	315.	258.	67.0	14.8	6.0	10.3
26	260.	199.	61.2	14.3	6.0	8.9
27	209.	180.	51.0	14.5	6.0	9.2
28	207.	213.	46.0	14.4	5.7	9.4
29	241.	460.	40.8	13.6	4.9	9.4
30	266.	503.	38.0	11.9	5.0	9.4
31		730.		10.1	5.1	
Total Sec. Ft. Days	*8258.	8930.	7833.	629.	233.	221.
Mean Sec. Ft.	* 330.	288.	261.	20.3	7.2	7.4
Run-off in Acre-Feet	*16400.	17700.	15500.	1250.	462.	438.

* Denotes 25 day period 178 day period 51,800 acre-feet

TABLE 15

DAILY DISCHARGE IN CUBIC FEET PER SECOND
NORTH FORK OF PIT RIVER AT ALTURAS
May 1 to September 31, 1945

Day	May	June	July	Aug.	Sept.
1	320.	800.	24.0	3.4	2.6
2	250.	800.	23.0	3.3	2.6
3	285.	800.	22.0	3.3	2.6
4	260.	950.	21.0	3.3	2.6
5	260.	1100.	21.0	3.3	2.6
6	240.	1200.	21.0	3.2	2.8
7	230.	1000.	21.0	3.2	2.8
8	200.	900.	21.0	3.0	2.8
9	170.	700.	20.0	3.0	2.8
10	180.	500.	19.0	3.0	2.8
11	180.	300.	19.0	3.0	2.8
12	180.	200.	12.0	3.0	2.8
13	170.	170.	15.0	3.0	2.8
14	180.	160.	15.0	3.0	2.8
15	190.	140.	13.0	2.8	2.8
16	420.	130.	12.0	2.8	2.8
17	600.	120.	12.0	2.8	2.8
18	700.	100.	12.0	2.8	2.8
19	600.	90.	12.0	2.8	2.8
20	550.	80.	12.0	2.8	2.8
21	450.	75.	12.0	2.6	2.8
22	420.	60.	12.0	2.6	2.8
23	400.	60.	11.0	2.6	2.8
24	360.	60.	10.0	2.6	2.8
25	350.	60.	5.0	2.6	2.8
26	300.	50.	4.0	2.6	2.8
27	280.	50.	4.0	2.6	2.8
28	340.	40.	4.0	2.6	2.8
29	490.	35.	4.0	2.6	2.8
30	700.	30.	4.0	2.6	2.8
31	900		3.9	2.6	
Total Sec. Ft. Days	11155.	1076.	421.0	89.4	83.0
Mean Sec. Ft.	360.	360.	13.6	2.9	2.8
Run-off in Acre-feet	22130.	21300.	835.	177.	164.

153 day period - 44,600 acre-feet