STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

Reports of the
Division of Water Resources
Edward Hyatt, State Engineer

REPORT ON WATER MASTER SERVICE IN NORTH FORK PIT RIVER WATER MASTER DISTRICT MODOC COUNTY, CALIFORNIA 1941 SEASON

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DIVISION OF WATER RESOURCES
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October 10, 1941

Mr. Harold Conkling
Deputy State Engineer
Sacramento, California

Attention: Mr. Gordon Zander, Supervising Hydraulic Engineer

Dear Sir:

Herewith is submitted ~~a report~~ the annual covering water master service within the North Fork Pit River Water Master District, Modoc County, California, during the 1941 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,

FRED W. ERVAST
Assistant Hydraulic Engineer

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REPORT ON
WATER MASTER SERVICE
IN
NORTH FORK PIT RIVER WATER MASTER DISTRICT
MODOC COUNTY, CALIFORNIA
1941 SEASON

INTRODUCTION

The North Fork Pit River Water Master District, 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 water 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 Water Master 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.

Water master service in the North Fork Pit River Water Master District for the 1941 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 1941 season in accordance with the "Distribution of Water" procedure contained in Sections 37 to 37f, inclusive, of the Water Commission Act. Such service extended over the period from April 1 to

September 30 and was administered by three deputy water masters as follows:

G. M. Vickroy, April 1 to June 25 - New Pine, Cottonwood, Davis, Linville, Franklin and Joseph Creeks.

J. V. Scammon, June 26 to September 30 - New Pine and Cottonwood Creeks. April 1 to September 30 - Thoms Creek.

F. W. Ervast, June 26 to September 30 - Davis, Linville, Franklin and Joseph Creeks. April 1 to September 30 - North Fork Pit River, Gleason, Parker and Shields Creeks.

Harrison Smitherum was supervising water master.

WATER SUPPLY

Precipitation

The results of the annual snow surveys made by the Division of Water Resources on the three snow courses in the Upper Pit River watershed are shown in Table 1 of this report. The table is arranged to show the water content of the snow pack at the beginning of the runoff period April 1 to July 31, inclusive, as compared with a normal water content deduced from a long time runoff record and as compared with the average water content covering the period of actual measurement.

Table 2 gives a monthly and an annual record of precipitation at Lakeview, Oregon, Alturas and Jess Valley, California, stations since 1929. The rainfall at the Lakeview station more nearly reflects the prevailing conditions in the Goose Lake Area than the Alturas station. The Jess Valley station being upon the slopes of the Warner Range gives a fairly accurate record of the occurrences of storms which miss the lower valley floors, but drop considerable moisture to higher elevations. During the 1941 season many hard showers brought considerable water to the many North Fork tributaries during harvest and on three different occassions left traces of snow on the summits. During July and particularly in August showers occurred about every other day in the Goose Lake Valley area.

In the following table comparisons of the corresponding 12-year record means with the 1940-41 season total; the 1941 April-September total; and the April, May, June, July and August 1941 precipitations are made for the three above mentioned stations. As indicated the values are comparative and in percent of the respective 12-year means.

	1940-41 Season Total (Oct.-Sept.)	1941 Irrigation Season (Apr.-Sept.)	1941 - Monthly				
			April	May	June	July	Aug.
Jess Valley	124%	162%	44%	194%	255%	48%	790%
Alturas	130%	" 163%	53%	166%	291%	9.5%	610%
Lakeview	164%	217%	117%	247%	268%	0	830%

From an inspection of the foregoing table it is to be noted that the precipitation during the irrigating season was of material significance. The frequent occurrance of summer showers delayed harvest operations and damaged crops.

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 Diversions - 4 foot Parshall Flume.
Davis Creek at Old Fish Wheel - Rated section.
Linville Creek at Power House - 3 foot rectangular weir.
(a)Franklin Creek above All Diversions - 3 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.
(b)North Fork Pit River above Upper X L Dam - Rated section.

(a) Replaced by 4 foot rectangular weir installed at end of 1941 season.

(b) May 23d - recorder moved upstream about 500 feet.

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 vs. Jensen, et al., Superior Court, Modoc County, No. 2821, dated June 14, 1932.

A surplus of water was in Pine Creek during the entire months of May and June with much water reaching Goose Lake. The lands entitled to water through the Surplus Ditch had an ample supply of water during those months. Stock water was kept flowing in the California Ditch throughout the year.

In May 1941 Application 10207 was filed by Water Butler and Lawrence Butler, of New Pine Creek, for 0.10 c.f.s. surplus or flood water to be used on 5 acres of their land located south of the California Grammar School.

Cottonwood Creek

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

The amount of water available for distribution was determined at the recorder station above diversions and is tabulated in Table 4.

Good crops were grown by all users.

A concrete dam and concrete flume section was installed by C. Oliver at the head of the Bissell Ditch, Diversion 4, in November 1941, to replace the timber diversion works washed out in December 1937. The water allocated to the Bissell Ditch has been diverted from Cottonwood Creek at a lower point during the 1938 to 1941 seasons, inclusive.

Davis Creek

The regulation of diversions from Davis Creek, was made in accordance to the Davis Creek Decree No. 2782, setting 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. Three upper diversions, above the recorder station were added.

In 1941 the general growing conditions were very favorable. Stream flow and rainfall produced an excess of moisture. Goose Lake is again partially filled and each morning heavy dews were usual. Thick heavy stands of alfalfa and hay were common and generally reported to be about 20% over average.

Harvest operations commenced in July and continued throughout August and September with many frequent interruptions by heavy showers. During July and August showers accurred almost every other day.

Linville Creek

The regulation of diversions from Linville Creek was made in accordance to Schedule 3 of the North Fork Judgment and Decree No. 4074, setting forth the several rights and priorities. The quantities available for regulation were determined at the recorder station at the power house.

The growing conditions of 1941 were the same as on Davis Creek a few miles north. However Linville Creek ranchers suffered very little damage from summer showers.

Franklin Creek

The regulation of diversions from Franklin Creek, was made in accordance to the Franklin Creek Decree No. 3118, setting forth the several rights and priorities. The quantities available for regulation were determined from the recorder station above all diversions.

Growning conditions were similar to those on Davis Creek. Franklin Creek ranchers were successful in harvesting early and suffered little loss from summer storms.

Joseph Creek

The regulation of diversions of the natural flow from Joseph Creek was made in accordance to Schedule 4 of the North Fork Pit River Judgment and Decree No. 4074, setting forth the several rights and priorities. The quantities available for regulation were determined by adding the amount of the return flow measured below the recorder station to the amount of flow at the recorder station which is situated below the confluence with Couch Creek downstream from the I. K. Wilson Ranch.

From inquiry of the ranchers on Joseph Creek, the 1941 season was very favorable to excellent hay crops. At all times there was sufficient water for irrigation. Haying operations were carried on during July. Joseph creek runs in a westerly direction through a long narrow valley with high slopes on either side. This configuration protects the canyon bottoms from storms and it is in these bottoms where exist the hay meadows. Many storms swept the ridges above Joseph Creek and supplied runoff during August and September. Good fall pastures were grown.

Thoms Creek

The regulation of diversions of the natural flow from Thoms Creek was made in accordance to Schedule 5 of the North Fork Pit River Judgment and Decree No. 4074, setting 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 highway crossing to the water available at that point.

At no time during the year was there a shortage of stock water and until August water flowed into the North Fork of Pit River.

Good crops were grown along Thoms Creek and after haying much fall pasture was grown.

Gleason Creek

The regulation of the diversions from Gleason Creek was made in accordance to Schedule 6 of the North Fork Pit River Judgment and Decree No. 4074, setting forth the several rights and priorities. The quantities available for distribution were determined at the recorder and weir station at the Jones Ranch.

This is the earliest creek of the North Fork Group. It has a very small drainage basin and the snow in the upper reaches of the watershed is usually melted long before that of any other basin. In 1941 flow existed in Gleason Creek until September 15. The record of daily discharge is presented in Table 10.

Growing conditions along Gleason Creek were excellent. A good hay crop on the Jones Ranch was harvested.

Parker Creek (including Shields Creek)

The regulation of diversions from Parker Creek and its tributary, Shields Creek, was made in accordance to Schedule 7, of the North Fork Pit River Judgment and Decree No. 4074, setting forth the several rights and priorities.

Shields Creek had an abundance of water during the entire season. The two uppermost users, McDowell and Pepperdine, ceased to divert after July 10th, however they were unable to dry their meadows because of the frequent occurrance of showers. McDowell abandoned further attempts to cut after August, but Pepperdine managed to harvest nearly all of his hay crop. The lower users, trumbo and Page had an abundance of water and succeeded in growing excellent fall pastures.

On Parker Creek much the same condition existed. Showers halted harvest operations many times. However between storms everyone managed to put up his crop. As it so worked out the most uppermost user was through first and was able to receive a thorough wetting before the next lower user was ready. This permitted the watermaster to use a small head most efficiently. Excellent fall pastures were evident along Parker Creek.

North Fork Pit River

The regulation of the diversions fromthe North Fork Pit River was made in accordance to Schedule 8 of the North Fork Pit River Judgment and Decree No. 4074, setting forth the several rights and priorities. The quantities of water available for distribution were determined by adding to the flow at the recorder station above the Upper XL Dam, the amount passing from Parker Creek measured at the station above Highway 395.

Diverters on the lower North Fork of Pit River had an abundance of water during the 1941 season prior to July 1st. Usually by the first of July the flow in the North Fork is barely sufficient for stock. This year there was ample water to permit the irrigation of the several alfalfa fields bordering the North Fork. The meadow hay lands below Highway 395 do not receive fall irrigation. Particular reference is made to Table 15 of this report, which indicates the amount of flow passing out of the North Fork area unconsumed.

No diversion was made from the Hughes Dam during 1941 because of a leak which resulted in the final washing out of the right abutment.

TABLE 1

SNOW SURVEY DATA - UPPER PIT RIVER

	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941
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	4/30	3/26
Depth of Snow - Inches	24.3	13.3	43.8	38.1	9.9	66.1	52.0	47.3	71.3	27.2	38.4	35.1
Water Content - Inches	11.0	5.2	18.7	14.3	3.3	22.6	22.0	17.5	23.6	10.4	15.6	13.8
Density - per cent	45.3	39.1	42.6	37.5	33.3	34.2	42.3	37.1	33.1	38.2	40.6	39.3
Deduced Normal Water Content								20.0	20.0	20.0	20.0	20.0
% of Deduced Norm	55.0	27.0	94.0	71.5	16.5	113.0	110.0	87.5	118.0	52.0	78.0	69.0
Record Average-In								14.32	15.35	14.8	14.9	14.8
% 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
Cedar Pass Course Elev. 7200 ft. Date of Survey	3/31	3/31	3/26	3/28	3/31	3/27	4/5	4/10	3/26	3/28	3/22	3/24
Depth of Snow-In.	29.3	22.1	49.2	43.9	2.2	56.4	68.2	54.2	79.1	28.2	35.9	40.8
Water Content-In.	13.0	8.0	19.8	16.3	0.9	21.1	26.2	21.6	25.2	10.5	14.6	17.9
Density - Percent	44.4	37.6	40.3	37.1	40.8	37.4	38.4	40.0	31.8	37.2	40.7	43.8
Deduced Normal Water Content								22.2	22.2	22.2	22.2	22.2
% of Deduced Normal	58.7	36.1	88.4	73.4	4.1	98.2	118.0	97.4	114.0	47.4	65.8	80.7
Record Average-In								15.9	16.9	16.3	16.1	16.3
% 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
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
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
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
Density -Per cent	45.6	47.3	44.3	37.5	0	40.9	42.3	44.8	45.8	46.2	39.8	45.9
Deduced Normal Water Content								16.1	16.1	16.1	16.1	16.1
% of Deduced Norm	37.9	18.0	82.5	87.6	0	116.6	124.3	104.0	174.	50.2	26.7	70.2
Record Average-In								11.5	13.3	12.8	12.0	12.0
% 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

TABLE 2

Precipitation-Upper Pit River - 1929 to 1941
Monthly, seasonal and average amounts in inches

		Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Season
Jess Valley	1929 - 30			2.41	2.72	2.01	1.29	1.01	1.57	.13	.02	.05	1.94	
	1930 - 31	.90	1.19	.13	.80	.88	1.64	.39	1.01	.61	.00	.28	.46	8.29
Elev. 5400 ft.	1931 - 32	1.67	2.24	1.58	2.20	.74	2.45	3.37	2.64	.53	.11	.00	.08	17.61
	1932 - 33	.24	.52	1.64	3.09	.85	1.03	1.84	1.53	.19	.08	T	.72	11.73
	1933 - 34	.90	.07	1.14	1.36	1.58	2.04	.65	1.77	2.32	.11	.10	.40	12.44
	1934 - 35	.61	2.87	2.12	1.53	2.02	1.71	4.31	2.25	.00	T	.09	T	17.51
	1935 - 36	2.49	1.13	2.17	3.67	2.94	1.44	0.92	1.11	1.67	.38	.37	.91	19.20
	1936 - 37	.00	.00	1.06	2.78	2.43	1.72	1.83	.87	1.00	1.89	.00	.28	13.86
	1937 - 38	1.41	3.45	4.42	1.25	2.56	4.13	2.60	1.23	1.22	1.30	.00	.54	24.11
	1938 - 39	1.87	1.59	.40	1.66	1.87	1.54	.59	.81	.87	.80	.15	.60	12.75
	1939 - 40	1.72	0.01	2.41	2.17	3.06	2.54	2.86	0.15	0.37	0.10	0	2.71	18.10
	1940 - 41	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
	12 Yr. Record Mean	1.25	1.40	1.92	2.04	2.00	1.83	1.76	1.49	0.94	0.42	0.24	0.81	16.10
Alturas	1929 - 30	0.54	.00	1.60	2.24	1.77	1.14	0.64	0.90	0.10	T	0.03	1.00	9.96
	1930 - 31	1.15	0.57	0.23	0.67	0.67	1.03	0.46	0.06	0.57	.00	T	0.64	6.05
Elev. 4460 ft.	1931 - 32	1.33	1.54	2.50	1.65	0.46	1.10	1.51	1.26	0.29	T	T	T	11.64
	1932 - 33	0.07	0.33	1.53	3.12	0.23	0.70	1.44	1.08	0.24	0.31	0.70	0.42	10.17
	1933 - 34	1.00	.00	0.74	0.54	0.94	0.87	0.42	2.01	1.88	T	0.18	0.59	9.17
	1934 - 35	0.52	3.04	1.56	2.52	1.23	1.44	2.74	0.81	.00	0.12	T	0.03	14.01
	1935 - 36	1.22	0.57	1.54	4.93	2.95	0.72	0.56	1.03	0.82	0.19	0.18	0.49	15.20
	1936 - 37	0.01	0.03	0.96	2.05	2.44	1.63	0.97	0.27	0.30	0.15	.00	0.06	8.87
	1937 - 38	1.14	3.75	5.68	1.01	2.24	3.21	1.04	0.53	0.71	0.98	.00	0.43	20.72
	1938 - 39	1.56	0.98	0.07	1.07	0.45	0.98	0.28	0.38	0.36	0.78	0.08	0.57	7.56
	1939 - 40	2.00	0.02	1.60	1.70	3.08	1.98	1.03	0.27	0.05	.00	.00	0.37	12.10
	1940 - 41	2.00	1.05	2.73	1.35	2.20	0.68	0.51	1.39	1.69	0.02	1.16	0.46	15.24
	12 Yr. Record Mean	1.04	0.99	1.73	1.91	1.55	1.29	0.97	0.84	0.58	0.21	0.19	0.42	11.72
	32 Yr. Record Mean	0.92	1.15	1.46	1.76	1.40	1.46	1.13	0.92	0.62	0.39	0.26	0.56	12.03

TABLE 2 (Continued)

		Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Season
Lakeview	1929 - 30	0.45	T	3.22	1.69	1.18	1.05	0.90	1.11	0.21	T	0.51	0.85	11.17
	1930 - 31	0.29	1.02	0.07	0.38	1.10	1.39	0.22	0.19	0.89	T	T	0.26	5.81
	1931 - 32	1.32	0.96	1.60	1.26	0.39	1.89	2.33	1.17	0.98	T	0.02	0.00	11.92
Elev. 4759 Ft.	1932 - 33	0.44	0.39	1.01	1.53	0.70	1.04	0.96	1.36	0.59	0.27	T	0.24	8.53
	1933 - 34	1.48	0.01	1.14	1.31	1.60	1.50	1.06	1.81	1.20	0.00	T	0.60	11.71
	1934 - 35	0.97	3.09	1.35	1.63	1.16	1.38	3.36	0.99	0.33	0.34	0.00	T	14.60
	1935 - 36	0.95	0.56	1.73	4.30	2.78	0.78	1.06	1.15	0.52	0.00	0.16	0.35	14.34
	1936 - 37	T	0.00	0.59	1.10	2.78	1.74	1.57	0.41	1.53	0.04	0.00	0.17	9.93
	1937 - 38	2.31	2.69	3.92	1.42	2.61	3.02	0.92	0.67	0.32	0.66	0.10	0.66	19.30
	1938 - 39	1.47	1.70	0.66	0.98	1.00	1.02	0.17	0.78	0.53	0.47	0.08	1.00	9.86
	1939 - 40	0.95	0.05	3.41	1.92	3.34	2.45	0.86	0.42	0.36	0.11	T	1.76	15.63
	1940 - 41	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
	12 Yr. Record Mean	1.06	1.05	1.69	1.66	1.79	1.51	1.24	1.06	0.80	0.16	0.22	0.56	12.80
	28 Yr. Record Mean	0.88	1.41	1.40	1.35	1.53	1.14	1.13	1.04	0.69	0.29	0.36	0.58	11.80
Bieber	1929 - 30	.83	.00	4.51	3.78	2.75	.67	.92	1.54	.02	T	.20	1.25	16.47
	1930 - 31	.43	.90	.28	1.38	1.98	1.44	.26	1.37	.31	T	.04	.59	8.98
Elev. 4200 Ft	1931 - 32	2.25	1.18	4.09	1.94	.69	1.25	1.72	1.23	.20	.22	.00	T	14.77
	1932 - 33	.86	.73	1.78	3.39	.31	2.57	1.28	2.59	T	T	T	.42	13.93
	1933 - 34	2.16	.00	1.67	1.19	1.79	1.33	.12	1.93	.56	.21	.00	.50	11.46
	1934 - 35	1.05	3.23	1.89	2.38	1.60	2.91	4.75	1.01	.04	.02	.00	.04	18.92
	1935 - 36	1.96	.38	2.69	5.56	3.40	.95	.80	.81	.75	.10	.10	.54	18.04
	1936 - 37	.10	.00	1.70	2.03	5.05	1.85	1.46	.36	1.04	.18	.00	.10	13.87
	1937 - 38	2.10	5.30	5.46	1.82	4.62	6.59	1.01	0.54	0.60	0.70	.00	.45	29.19
	1938 - 39	1.30	.95	.59	1.83	.46	1.28	.68	.55	.31	.60	.00	.47	9.02
	1939 - 40	1.68	.92	3.53	2.84	5.64	3.50	1.19	1.19	0.04	0	0	1.46	21.09
	1940 - 41	3.15	[illegible]	3.45	1.90	4.52	0.44	0.57	2.33	1.25	0.18	0.30	0.41	21.16
	12 Yr. Record Mean	1.49	1.28	2.64	2.50	2.73	2.06	1.23	1.28	0.43	0.18	0.05	0.52	16.39

TABLE 3

DAILY DISCHARGE IN CUBIC FEET PER SECOND
NEW PINE CREEK BELOW SCHROEDERS
April 1 to September 30, 1941

Day	April	May	June	July	Aug.	Sept.	
1	10.0	38.0	50.0	24.8	10.5	6.0	
2	11.0	42.5	46.0	24.5	10.0	6.8	
3	11.0	45.0	45.5	23.5	10.0	6.5	
4	11.0	49.5	45.5	23.0	9.5	6.0	
5	11.0	38.0	45.0	22.0	9.0	6.0	
6	11.0	40.0	47.0	21.0	9.0	6.0	
7	11.5	38.0	48.5	20.0	8.5	5.5	
8	11.5	38.5	47.0	20.0	8.5	6.0	
9	11.5	45.0	43.5	20.0	8.5	5.5	
10	11.5	58.0	42.0	19.0	8.0	5.5	
11	11.5	60.0	41.0	18.0	10.0	5.5	
12	12.0	62.0	41.0	18.0	9.0	5.5	
13	12.0	60.0	40.0	18.0	8.0	5.2	
14	12.0	59.0	39.5	17.5	7.5	5.0	
15	12.5	58.0	37.5	16.9	7.2	5.0	
16	12.5	52.5	36.0	16.0	7.2	5.0	
17	12.0	58.0	35.0	15.5	7.2	5.0	
18	12.0	56.0	40.0	15.0	7.5	5.0	
19	12.0	58.0	46.0	14.0	6.8	6.0	
20	12.0	58.0	42.5	14.0	6.5	5.5	
21	11.0	60.0	39.5	13.5	6.0	5.5	
22	15.0	63.0	37.5	13.0	6.5	5.5	
23	16.0	65.0	35.0	12.5	6.5	5.3	
24	18.0	68.0	35.0	12.5	6.5	5.3	
25	21.5	70.0	32.5	12.0	6.5	5.3	
26	23.0	60.0	33.0	12.0	6.5	5.2	
27	25.0	57.5	32.0	11.5	6.5	5.1	
28	29.0	55.0	30.0	12.0	6.5	5.0	
29	32.0	60.0	29.0	11.5	6.8	5.0	
30	38.0	52.5	28.0	11.5	6.5	5.0	
31		51.0		11.0	6.0		
Total Sec. Ft. Days	460.	1676.	1190.	514.	239.	165.	183 Day Period
Mean Sec. Ft.	15.3	55.8	39.6	17.1	8.0	5.5	23.2
Maximum Sec. Ft.	38.0	70.0	50.0	24.8	6.0	6.8	70.0
Minimum Sec. Ft.	10.0	38.0	28.0	11.0	10.5	5.0	5.0
Total Ac. Ft.	913.0	3325.0	2361.0	1019.0	473.0	327.0	8418.0

TABLE 4

DAILY DISCHARGE IN CUBIC FEET PER SECOND
COTTONWOOD CREEK ABOVE DIVERSIONS.
April 6 to September 30, 1941

Day	April	May	June	July	Aug.	Sept.	
1		20.0	14.0	8.0	2.1	1.0	
2		18.0	14.0	7.0	2.0	1.0	
3		16.0	14.0	4.1	2.0	1.0	
4		15.0	14.0	3.7	1.9	1.0	
5		14.0	13.8	3.6	1.9	0.9	
6	18.6	15.0	14.0	3.5	1.4	0.8	
7	18.6	16.5	14.1	3.4	1.3	0.8	
8	18.6	17.8	13.4	3.3	1.4	0.8	
9	18.6	19.0	12.4	3.2	1.5	0.8	
10	18.6	20.0	11.8	3.1	1.6	0.9	
11	19.0	20.0	11.0	3.0	1.8	0.8	
12	19.2	19.0	11.0	3.1	1.7	0.8	
13	19.2	19.0	10.8	2.9	1.8	0.8	
14	19.4	18.0	10.5	2.8	1.6	0.8	
15	19.4	18.0	10.4	2.6	1.3	0.8	
16	19.6	17.9	10.2	2.6	1.3	0.7	
17	19.9	17.8	11.0	2.5	1.5	0.7	
18	20.1	17.6	11.8	2.5	1.7	0.8	
19	20.3	17.3	13.4	2.4	1.3	0.8	
20	20.5	17.0	12.5	2.4	1.1	0.8	
21	20.3	17.0	12.0	2.4	1.1	0.8	
22	20.5	17.0	11.2	2.4	1.1	0.7	
23	22.0	17.0	10.7	2.3	1.1	0.7	
24	25.0	17.0	10.7	2.3	1.0	0.7	
25	30.0	17.0	10.0	2.3	1.0	0.6	
26	28.0	16.0	10.2	2.3	1.0	0.6	
27	25.0	15.0	10.2	2.3	1.0	0.6	
28	24.0	14.0	9.8	2.3	1.0	0.6	
29	23.0	13.8	9.8	2.2	1.0	0.6	
30	20.0	13.0	9.8	2.2	1.0	0.6	
31		13.8		2.1	1.0		
Total Sec. Ft. days	*527.4	523.5	352.5	94.8	43.5	23.3	178 Day Period
Mean Sec. Ft.	* 21.1	16.9	11.8	3.1	1.4	0.8	8.8
Maximum Sec. Ft.	* 30.0	20.0	14.1	8.0	2.1	1.0	30.0
Minimum Sec. Ft.	* 18.6	13.0	9.8	2.1	1.0	0.6	0.6
Total Ac. Ft.	* 1046.0	1039.0	699.0	188.0	86.0	46.0	3104.0

* 25 day period.

TABLE 5

DAILY DISCHARGE IN CUBIC FEET PER SECOND
DAVIS CREEK AT OLD FISH WHEEL
April 1 to September 30, 1941

Day	April	May	June	July	Aug.	Sept.
1	11.0	16.4	23.8	16.8	10.2	9.6
2	11.3	16.9	23.0	16.6	9.9	9.6
3	11.2	17.0	22.2	16.4	9.6	9.6
4	11.3	17.3	21.7	16.4	9.6	9.2
5	11.5	17.5	20.9	16.1	9.6	9.0
6	11.5	22.0	24.9	15.8	9.6	8.8
7	11.0	26.5	23.6	15.3	9.4	8.7
8	11.0	31.0	22.2	14.9	9.6	8.3
9	10.5	35.5	20.9	14.6	9.6	8.3
10	10.5	40.0	19.8	14.4	9.6	8.3
11	10.5	43.0	19.4	14.0	11.0	8.3
12	10.0	47.4	19.8	13.8	9.6	8.3
13	10.0	49.1	20.1	13.5	9.4	8.3
14	9.5	52.0	19.6	13.3	9.2	8.3
15	9.5	55.3	19.1	15.6	9.0	8.3
16	9.8	53.0	19.4	13.5	8.8	8.3
17	10.3	50.1	19.6	12.9	9.6	8.3
18	10.7	49.0	19.6	12.7	9.4	9.6
19	11.0	44.1	20.1	12.7	9.2	9.2
20	11.2	40.0	17.4	12.7	9.0	9.0
21	11.2	43.2	16.4	12.5	9.0	8.7
22	11.2	45.3	16.4	11.6	9.0	8.7
23	11.3	49.0	20.6	11.0	8.8	8.7
24	11.3	52.3	19.8	10.8	8.8	8.7
&& 25	11.4	55.0	19.1	10.8	8.7	8.7
26	11.6	53.0	21.7	10.6	8.7	8.7
27	12.5	46.6	20.6	10.6	8.7	8.7
28	13.6	38.1	19.6	10.6	8.5	8.7
29	14.7	31.0	18.6	10.4	9.2	8.7
30	16.0	26.0	17.8	10.2	9.0	8.7
31		25.5		10.2	8.8	
Total	338	1188	608	411	288	262
Mean	11.3	38.3	20.3	13.2	9.3	8.7
Run-off in Acre-feet	670	2356	1206	815	571	520

TABLE 6

DAILY DISCHARGE IN CUBIC FEET PER SECOND
LINVILLE CREEK AT POWER HOUSE
April 1 to September 30, 1941

Day	April	May	June	July	Aug.	Sept.
1	2.3	2.1	2.3	1.6	2.0	2.0
2	2.3	2.2	2.0	1.7	2.0	2.0
3	2.3	2.5	2.0	2.0	2.0	1.9
4	2.3	2.4	2.0	2.0	2.0	1.9
5	2.2	2.5	2.0	2.0	1.9	1.9
6	2.2	2.5	2.0	2.0	1.9	1.9
7	2.2	2.5	2.1	2.0	1.9	1.9
8	2.2	2.7	2.0	2.0	1.9	1.9
9	2.3	2.9	1.9	2.0	1.9	1.9
10	2.3	3.0	1.9	2.0	1.9	1.9
11	2.3	3.0	1.9	2.0	1.9	1.9
12	2.3	3.0	1.9	2.0	1.8	1.9
13	2.2	3.0	1.9	2.0	1.8	1.9
14	2.2	2.9	1.9	2.0	1.7	1.9
15	2.2	2.9	1.9	2.0	1.7	1.9
16	2.2	2.9	1.9	2.0	1.9	1.9
17	2.2	2.9	1.9	2.0	1.9	1.9
18	2.2	2.7	1.9	2.0	1.8	1.9
19	2.1	2.6	1.9	2.0	1.8	1.9
20	2.1	2.5	1.9	2.0	1.8	1.9
21	2.2	2.3	1.9	2.0	1.9	1.9
22	2.2	2.3	1.9	1.9	1.9	1.9
23	2.2	2.3	1.9	1.9	1.9	1.9
24	2.2	2.3	1.9	1.9	1.9	1.9
25	2.2	2.3	1.8	1.9	1.9	1.9
26	2.2	2.3	1.8	1.9	1.9	2.0
27	2.2	2.4	1.8	2.0	1.9	2.0
28	2.2	2.5	1.7	2.0	1.9	2.0
29	2.2	2.4	1.7	2.0	1.9	2.0
30	2.2	2.3	1.7	2.0	2.0	2.0
31		2.3		2.0	2.0	
Total	63.0	79.4	57.3	59.0	58.6	57.7
Mean	21.0	25.6	19.1	19.0	18.9	19.2
Run-off in Acre-feet	125	157	114	117	116	114

TABLE 7

DAILY DISCHARGE IN CUBIC FEET PER SECOND
FRANKLIN CREEK ABOVE ALL DIVERSIONS
April 1 to September 30, 1941

Day	April	May	June	July	Aug.	Sept.
1	3.7	6.7	3.7	1.7	1.2	1.9
2	3.7	7.2	3.5	1.7	1.2	1.6
3	3.7	7.9	3.3	1.8	1.1	1.5
4	3.7	8.3	3.2	1.8	1.1	1.5
5	3.8	8.7	3.0	1.8	1.1	1.4
6	3.8	8.3	3.4	1.7	1.2	1.3
7	3.8	8.1	4.4	1.7	1.2	1.2
8	4.0	8.9	3.7	1.6	1.2	1.2
9	3.9	8.2	3.2	1.5	1.2	1.2
10	3.8	7.7	2.9	1.5	1.1	1.2
11	3.9	7.8	2.6	1.5	1.5	1.2
12	4.0	7.8	2.5	1.4	1.5	1.2
13	3.9	7.8	2.5	1.5	1.6	1.2
14	3.8	7.6	2.4	1.4	1.9	1.2
15	3.8	7.3	2.3	1.4	2.1	1.2
16	3.7	7.0	2.2	1.5	1.7	1.2
17	3.5	6.8	2.2	1.4	1.5	1.2
18	3.4	6.4	2.8	1.3	1.4	1.2
19	3.5	6.1	3.8	1.3	1.3	1.3
20	3.6	5.8	3.5	1.3	1.3	1.3
21	3.7	5.6	3.2	1.2	1.3	1.4
22	3.8	5.5	2.9	1.1	1.3	1.2
23	4.2	5.6	2.6	1.2	1.2	1.2
24	5.0	5.5	2.3	1.2	1.2	1.3
25	5.4	5.7	2.2	1.2	1.2	1.4
26	5.6	6.6	2.1	1.3	1.2	1.4
27	5.8	5.8	2.0	1.5	1.2	1.4
28	5.8	5.4	1.9	1.4	1.1	1.4
29	6.4	4.9	1.9	1.2	1.3	1.4
30	6.7	4.2	1.8	1.2	2.0	1.8
31		3.9		1.2	2.0	
Total	127	209	84.0	44.5	42.4	40.1
Mean	4.2	6.7	2.8	1.4	1.4	1.3
Runoff in Acre-feet	252	415	166	88.2	84.1	79.5

TABLE 8

DAILY DISCHARGE IN CUBIC FEET PER SECOND
JOSEPH CREEK BELOW WILSON RANCH
April 1 to September 30, 1941

Day	April	May	June	July	Aug.	Sept.
1	11.6	14.0	9.4	2.3	1.2	1.3
2	11.3	14.9	8.2	2.3	1.1	2.3
3	10.5	13.1	8.2	2.1	1.1	2.0
4	9.8	12.6	8.2	1.7	1.1	1.7
5	9.0	11.8	8.2	1.7	1.1	1.4
6	9.4	12.2	10.2	1.6	1.0	1.1
7	9.9	12.5	12.2	1.3	0.5	1.1
8	10.3	14.0	9.3	1.2	0.4	0.9
9	10.5	16.4	8.4	1.1	0.4	0.8
10	12.5	15.8	7.9	1.1	0.5	0.8
11	9.3	17.4	7.2	1.1	1.0	0.8
12	8.8	19.0	7.2	1.0	0.6	0.9
13	8.2	16.4	7.5	1.9	0.7	1.0
14	8.8	14.3	7.9	2.5	0.6	1.0
15	9.3	12.8	7.8	2.6	0.5	0.9
16	9.4	13.1	7.5	2.6	0.6	1.0
17	9.8	14.0	7.3	2.2	1.1	0.9
18	9.1	14.3	7.0	2.0	0.8	1.4
19	8.4	11.9	6.8	1.9	0.7	1.4
20	7.0	11.6	6.1	1.7	0.6	1.2
21	6.6	11.6	5.4	1.5	0.7	1.2
22	7.0	12.8	4.7	1.5	0.7	1.1
23	7.2	13.4	4.4	1.5	0.6	1.1
24	8.3	13.7	4.4	1.4	0.6	1.0
25	9.2	13.4	3.6	1.6	0.8	1.0
26	9.8	17.0	3.6	1.7	1.1	1.0
27	10.4	15.5	4.7	1.7	1.0	1.0
28	10.4	14.9	4.2	1.5	1.0	1.0
29	12.2	11.0	3.4	1.3	1.6	1.0
30	14.0	12.2	2.6	1.4	1.2	1.0
31		11.0		1.2	1.1	1.0
Total	288	429	204	52.2	26.2	34.3
Mean	9.6	13.8	6.8	1.7	0.8	1.1
Run-off in Acre-feet	571	851	405	104	51.6	120

TABLE 9

DAILY DISCHARGE IN CUBIC FEET PER SECOND
THOMS CREEK AT HIGHWAY CROSSING
May 1 to September 30, 1941

Day	May	June	July	Aug.	Sept.	
1	70.0	8.6	3.2	0.3	0.6	
2	54.0	8.0	2.9	0.3	0.5	
3	75.0	8.0	3.0	0.3	0.5	
4	60.0	7.7	3.0	0.3	0.5	
5	60.0	5.6	1.6	0.2	0.4	
6	55.0	5.6	2.3	0.2	0.5	
7	50.0	5.8	2.3	0.2	0.8	
8	40.0	5.7	2.2	0.2	0.8	
9	40.0	5.7	1.8	0.2	0.8	
10	38.0	4.8	1.4	0.3	0.8	
11	38.0	4.9	1.4	0.9	0.8	
12	38.0	4.8	1.6	0.8	0.8	
13	38.0	4.7	1.8	0.8	0.6	
14	38.0	4.7	2.1	0.8	0.5	
15	35.0	4.7	1.8	0.8	0.5	
16	32.0	4.7	1.3	0.8	0.7	
17	31.0	4.7	1.2	0.8	0.7	
18	31.0	4.7	1.2	0.8	0.7	
19	33.5	4.7	1.1	0.5	0.8	
20	30.0	4.7	1.1	0.5	0.5	
21	30.0	4.7	1.1	0.5	0.5	
22	27.0	4.2	1.1	0.5	0.5	
23	20.0	4.0	1.0	0.5	0.5	
24	12.0	4.0	0.7	0.6	0.4	
25	9.5	3.9	0.6	0.5	0.4	
26	9.7	3.9	0.6	0.5	0.4	
27	10.0	3.9	0.6	0.5	0.2	
28	11.0	3.9	0.6	0.5	0.2	
29	10.5	3.6	0.5	0.5	0.2	
30	9.5	3.4	0.4	0.6	0.2	
31	9.4		0.4	0.6		
Total Sec. Ft. Days	1045.0	152.0	45.9	15.8	16.3	153 Day Period
Mean Sec. Ft.	33.7	5.1	1.5	0.5	0.5	8.3
Maximum Sec. Ft.	70.0	8.6	3.2	0.8	0.8	70.0
Minimum Sec. Ft.	9.4	3.4	0.4	0.2	012	0.2
Total Ac. Ft.	2073.0	302.0	91.0	31.0	32,0	2529.0

TABLE 10

DAILY DISCHARGE IN CUBIC FEET PER SECOND
GLEASON CREEK AT JONES RANCH
April 1 to September 30, 1941

Day	April	May	June	July	Aug.	Sept.
1	2.0	1.9	1.2	0.3	0.11	0.01
2	2.0	1.9	1.2	0.3	0.08	0.01
3	2.1	1.9	1.1	0.3	0.08	0.01
4	2.1	1.9	1.0	0.2	0.08	0.01
5	2.4	1.9	1.0	0.2	0.08	0.01
6	2.8	1.9	0.9	0.2	0.08	0.01
7	2.3	1.9	1.3	0.2	0.08	0.01
8	2.7	1.8	1.2	0.2	0.08	0.01
9	2.7	1.6	1.0	0.2	0.08	0.01
10	2.8	1.5	0.9	0.2	0.08	0.01
11	3.0	1.5	0.7	0.2	0.05	0.01
12	3.2	1.6	0.6	0.2	0.05	0.01
13	3.5	1.7	0.5	0.2	0.05	0.01
14	3.7	1.8	0.6	0.1	0.05	0.01
15	3.2	1.6	0.6	0.1	0.05	0.01
16	3.5	1.5	0.5	0.1	0.05	
17	3.0	1.4	0.5	0.1	0.03	
18	2.8	1.3	0.5	0.1	0.03	
19	2.4	1.2	0.6	0.1	0.05	
20	2.8	1.2	0.6	0.1	0.03	
21	3.0	1.2	0.5	0.1	0.03	
22	2.8	1.0	0.5	0.1	0.03	
23	2.4	1.0	0.5	0.1	0.03	
24	2.3	1.0	0.4	0.1	0.03	
25	2.2	0.9	0.4	0.1	0.03	
26	2.1	1.1	0.4	0.1	0.03	
27	2.1	1.5	0.4	0.1	0.03	
28	2.0	1.4	0.4	0.1	0.01	
29	2.0	1.2	0.3	0.1	0.01	
30	2.0	1.1	0.3	0.1	0.01	
31		1.2		0.1	0.01	
Total	77.9	45.6	20.6	4.7	1.52	0.15
Mean	2.6	1.5	0.7	0.15	0.05	0.005
Run-off in Acre-feet	154.5	90.4	40.9	9.3	3.0	0.30

NO FLOW

TABLE 11

DAILY DISCHARGE IN CUBIC FEET PER SECOND
PARKER CREEK AT FOGARTY RANCH
April 1 to September 30, 1941

Day	April	May	June	July	Aug.	Sept..
1	30.0	61.3	43.6	10.7	5.2	2.3
2	30.0	60.4	36.4	10.0	4.7	6.0
3	34.0	79.0	33.2	8.6	4.4	6.6
4	36.4	69.0	29.4	7.6	4.4	4.7
5	39.6	60.4	28.2	7.3	4.2	4.2
6	40.4	55.0	39.6	7.0	4.2	3.0
7	42.8	53.2	46.9	6.6	4.2	2.7
8	39.6	91.0	42.8	6.3	4.2	2.5
9	39.6	79.0	40.4	5.7	3.2	2.1
10	42.0	69.0	31.6	5.5	2.1	1.8
11	44.4	71.0	28.2	5.0	5.0	1.6
12	44.4	74.0	26.4	4.7	4.7	2.1
13	42.8	75.0	25.8	4.4	4.7	2.5
14	50.5	65.0	22.8	4.2	4.4	2.5
15	55.0	50.5	20.4	3.9	4.4	2.5
16	48.7	46.0	19.8	4.7	4.2	2.3
17	45.2	42.8	17.5	4.4	5.2	2.1
18	42.0	50.5	19.2	3.9	5.0	3.4
19	40.4	42.0	23.4	3.2	4.4	3.9
20	39.6	36.4	24.0	3.0	4.4	3.4
21	39.6	34.0	22.2	3.0	4.4	3.4
22	42.8	31.6	14.5	2.5	5.2	3.9
23	43.6	30.0	12.6	2.0	4.7	4.4
24	44.4	30.0	12.2	1.8	4.2	4.2
25	46.9	32.4	12.2	1.6	2.5	3.9
26	46.0	51.4	14.5	2.1	2.1	3.4
27	48.7	69.0	14.0	3.2	2.3	3.7
28	50.5	50.5	22.8	4.4	2.5	3.7
29	50.5	42.0	19.2	5.5	3.9	3.9
30	51.4	36.4	14.5	5.0	3.4	3.9
31		44.4		5.2	4.2	
Total	1292	1682	758	153	127	101
Mean	43.1	54.3	25.3	4.9	4.1	33.7
Run-off in Acre-feet	2563	3336	1503	303	252	200

TABLE 12

DAILY DISCHARGE IN CUBIC FEET PER SECOND
PARKER CREEK ABOVE HIGHWAY 395
April 1 to September 30, 1941

Day	April	May	June	July	Aug.	Sept.
1	12.0	18.0	30.6	14.2	1.8	1.6
2	11.2	20.5	27.6	12.7	1.0	2.3
3	15.4	23.5	26.0	11.3	0.9	3.5
4	17.0	31.2	23.5	10.9	1.4	3.8
5	19.5	30.6	20.5	10.6	1.5	3.7
6	24.0	26.5	19.5	9.2	1.4	3.2
7	27.0	19.5	57.4	7.6	1.0	2.3
8	26.5	28.2	45.6	7.0	0.8	1.6
9	28.2	51.0	35.1	6.7	0.9	1.5
10	30.6	36.5	27.6	6.4	1.1	1.3
11	31.8	33.7	24.0	5.7	1.6	1.1
12	31.8	31.8	21.5	5.2	2.3	1.0
13	31.2	37.9	21.0	4.7	2.3	1.0
14	31.2	36.5	18.5	4.7	2.0	1.0
15	33.0	26.0	18.5	4.2	1.1	0.9
16	30.6	17.0	17.0	4.0	1.3	0.9
17	30.0	16.2	18.0	5.0	0.8	0.9
18	27.0	18.0	18.5	5.0	0.9	0.9
19	26.5	21.0	30.6	4.5	0.8	1.4
20	24.0	15.8	24.5	3.3	0.8	1.6
21	15.8	13.8	19.5	3.2	0.9	1.6
22	15.0	13.0	18.5	3.3	1.4	1.8
23	15.0	12.3	14.2	2.8	1.6	1.9
24	11.2	12.6	14.2	2.3	1.3	1.9
25	11.2	13.0	16.6	2.3	1.0	2.0
26	12.0	19.5	17.5	2.3	1.0	2.0
27	15.4	35.8	24.0	2.5	0.9	2.0
28	15.4	30.6	26.0	3.0	0.9	2.2
29	15.0	28.2	21.5	3.3	1.1	2.2
30	15.8	24.5	16.6	3.5	1.4	2.3
31		30.0		2.3	1.5	
Total	650	773	714	174	38.4	55.4
Mean	21.7	24.9	23.8	5.6	1.2	1.8
Run-off in Acre-feet	1289	1533	1416	345	76.2	110

TABLE 13

DAILY DISCHARGE IN CUBIC FEET PER SECOND
NORTH FORK OF PIT RIVER AT UPPER XL DAM
April 1 to September 30, 1941

Day	April	May	June	July	Aug.	Sept.
1	16.0	45.4	26.4	8.0	1.6	1.5
2	17.6	47.8	26.4	7.3	1.2	2.3
3	18.2	65.6	23.6	7.3	0.7	3.1
4	19.0	59.2	20.8	5.7	0.4	3.1
5	19.8	51.6	20.1	5.2	0.4	2.7
6	19.8	46.6	22.9	4.4	0.3	2.3
7	20.6	41.8	43.0	4.1	0.3	1.9
8	19.8	46.6	35.6	3.7	0.3	1.8
9	19.8	56.6	29.9	3.6	0.4	1.7
10	21.5	59.2	22.9	3.1	0.3	1.4
11	22.4	54.0	17.0	3.0	0.5	1.3
12	21.5	49.0	14.5	3.0	1.5	1.7
13	19.0	44.2	12.0	3.0	1.4	1.8
14	19.8	39.4	15.0	3.1	1.3	2.0
15	20.6	35.2	11.2	3.7	1.3	2.0
16	19.8	31.0	10.2	4.5	1.0	2.0
17	19.8	27.0	10.2	4.1	1.3	1.8
18	19.8	32.0	16.0	3.1	1.6	1.8
19	19.8	28.0	30.6	2.6	1.2	3.0
20	20.6	19.8	22.2	2.4	1.0	3.1
21	19.8	15.2	16.0	2.0	1.1	3.1
22	19.0	15.2	12.0	1.6	1.6	3.1
23	19.8	13.6	11.6	1.2	1.7	3.0
24	21.5	28.5	9.5	1.2	1.4	2.9
25	26.0	29.2	9.8	0.5	1.2	2.7
26	26.0	36.5	9.5	0.8	1.1	2.5
27	29.0	43.0	15.5	1.6	0.9	2.0
28	31.0	36.5	14.0	2.0	1.0	2.0
29	36.2	35.6	11.2	1.9	1.4	2.0
30	36.2	30,6	9.5	1.7	2.0	2.0
31		36.5		1.8	1.7	
Total	660	1200	549	101	33.1	67.6
Mean	22.0	38.7	17.7	33.7	1.1	2.3
Run-off in Acre-feet	1309	2380	1089	200	65.7	134

TABLE 14

DAILY DISCHARGE IN CUBIC FEET PER SECOND
NORTH FORK OF PIT RIVER BELOW PARKER CREEK
Combined Flow of "North Fork of Pit River at
Upper XL Dam" and "Parker Creek above Highway 395".
April 1 to September 30, 1941.

Day	April	May	June	July	Aug.	Sept.
1	28.0	63.4	57.0	22.2	3.4	3.1
2	28.8	68.3	54.0	20.0	2.2	3.3
3	33.6	89.1	49.6	18.6	1.6	4.4
4	36.0	90.4	44.3	16.6	1.8	5.2
5	39.3	82.2	40.6	15.8	1.9	5.2
6	43.8	73.1	42.4	13.6	1.7	5.6
7	47.6	61.3	100.0	11.7	1.3	3.3
8	46.3	74.8	81.2	10.7	1.1	2.4
9	48.0	108.0	65.0	10.3	1.3	2.4
10	52.1	95.7	50.5	9.5	1.4	2.4
11	54.2	87.7	41.0	8.7	2.1	2.7
12	53.3	80.8	36.0	8.2	3.8	3.3
13	50.2	82.1	33.0	7.7	3.7	3.3
14	51.0	75.9	33.5	7.8	3.3	3.0
15	53.6	61.2	29.7	7.9	2.4	2.0
16	50.4	48.0	27.2	8.5	2.3	2.2
17	49.8	43.2	28.2	9.1	2.1	1.7
18	46.8	50.0	34.5	8.1	2.5	1.8
19	46.3	49.0	61.2	7.1	2.0	2.2
20	44.6	35.6	46.7	5.7	1.8	2.4
21	35.6	29.0	35.5	5.2	2.0	2.5
22	34.0	28.2	30.5	4.9	3.0	3.2
23	34.8	25.9	25.8	4.0	3.3	3.5
24	32.7	41.1	23.7	3.5	2.7	4.8
25	37.2	42.2	16.4	2.8	2.2	4.7
26	38.0	56.0	17.0	3.1	2.1	4.5
27	44.4	78.8	29.5	4.1	1.8	4.0
28	46.4	67.1	40.0	5.0	1.9	4.2
29	51.2	63.8	33.7	5.2	2.5	4.2
30	52.0	55.1	26.1	5.2	3.4	4.3
31		66.5		4.1	3.2	
Total	131	1974	1234	275	71.8	102
Mean	43.7	63.7	39.8	9.2	2.3	3.4
Run-off in Acre-feet	2598	3915	2448	545	142	202

TABLE 15

DAILY DISCHARGE IN CUBIC FEET PER SECOND
NORTH FORK OF PIT RIVER AT ALTURAS
April 17 to September 30, 1941

Day	April	May	June	July	Aug.	Sept.
1		42.7	46.1	22.5	2.9	4.6
2		67.9	43.6	18.0	3.2	5.0
3		83.4	39.3	14.7	3.4	5.0
4		77.7	35.4	12.0	3.5	5.0
5		73.3	31.6	12.0	3.5	5.0
6		70.1	28.0	10.6	3.7	5.0
7		34.6	45.3	9.1	3.7	5.0
8		74.4	66.8	7.2	3.8	5.0
9		113.0	55.3	6.6	3.8	5.0
10		111.0	45.3	6.6	4.0	5.0
11		97.4	43.6	5.6	4.3	4.6
12		84.4	35.4	5.3	3.8	4.6
13		72.2	30.8	5.0	4.0	4.6
14		89.0	29.4	5.0	5.0	4.6
15		78.8	26.6	5.0	5.0	4.6
16		70.1	25.9	5.0	4.6	4.6
17	64.7	61.5	23.8	5.0	4.3	4.6
18	55.3	53.4	25.4	5.0	4.0	4.6
19	47.0	45.3	40.1	4.3	4.0	4.6
20	34.6	38.4	43.6	5.0	4.0	4.6
21	23.2	32.3	36.9	5.0	5.0	4.6
22	21.9	28.0	30.8	4.3	4.0	4.6
23	23.8	23.2	24.5	4.6	4.0	4.6
24	1.8*	23.2	21.9	4.6	4.0	5.0
25	20.0	29.4	25.4	4.6	4.0	5.0
26	21.9	29.4	23.8	4.6	4.0	5.0
27	23.8	98.6	26.6	4.6	4.0	5.3
28	32.3	76.6	40.1	4.3	4.0	5.3
29	33.8	55.3	33.1	4.6	4.0	5.6
30	35.4	51.6	26.6	3.7	4.3	5.6
31		48.8		2.6	4.6	
Total	440	1935	1051	217	124	146
Mean		62.4	35.0	7.0	4.0	4.9
Run-off in Acre-feet	873	3838	2085	430	246	290

*Low flow due to closing dam owned by Pit River Dam and Ditch Company.