STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

REPORTS OF THE
DIVISION OF WATER RESOURCES
EDWARD HYATT, STATE ENGINEER

REPORT ON

WATERMASTER SERVICE WITHIN

SURPRISE VALLEY WATERMASTER DISTRICT

MODOC COUNTY, CALIFORNIA

1944 SEASON

By
T. J. McMahon
Assistant Civil Engineer
Sacramento, California

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Department of Public Works

SACRAMENTO

DIVISION OF WATER RESOURCES
401 PUBLIC WORKS BUILDING

October 19, 1944

Mr. Harold Conkling
Deputy State Engineer
Sacramento, California

Attention: Mr. Gordon Zander
Supervising Hydraulic Engineer

Dear Sir:

Submitted herewith is the annual report covering watermaster service within the Surprise Valley Watermaster Service Area, Modoc County, California, during the 1944 season.

This report gives a general description of the work, and a summary of the distribution of water on each stream within the area. Records of precipitation, run-off, and other pertinent data are included.

Respectfully submitted,

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Assistant Civil Engineer

FOR VICTORY
BUY UNITED STATES SAVINGS BONDS AND STAMPS

TABLE OF CONTENTS

	Page
Letter of Transmittal	
Introduction	1
Water Supply	1
Precipitation	1
Stream Flow	2
Distribution of Water	3
Mill Creek	3
Soldier Creek	3
Pine Creek	4
Cedar Creek	5
Deep Creek	6
Owl Creek	6
Rader Creek	7
Eagle Creek	7
Emerson Creek	8
Ownership of Lands and Water Rights Within Surprise Valley Watermaster District	8
Changes in Ownership	8
Names of Current Owners	9 & 10

TABLES

1. Precipitation at Cedarville, California
2. Snow Survey Data
3. Daily Discharge in Cubic Feet per Second--Mill Creek Above Diversions
4. Daily Discharge in Cubic Feet per Second--Soldier Creek Above Diversions
5. Daily Discharge in Cubic Feet per Second--Pine Creek Above Diversions
6. Daily Discharge in Cubic Feet per Second--Cedar Creek Above Diversions
7. Daily Discharge in Cubic Feet per Second--North Deep Creek Above Diversions
8. Daily Discharge in Cubic Feet per Second--South Deep Creek Below Espil Ditch
9. Daily Discharge in Cubic Feet per Second--North and South Deep Creeks Above Diversions
10. Daily Discharge in Cubic Feet per Second--Owl Creek Below Allen-Arreche Ditch
11. Daily Discharge in Cubic Feet per Second--Rader Creek Above Parshall Flume Division Structure
12. Daily Discharge in Cubic Feet per Second--Rader Creek Above Diversions
13. Daily Discharge in Cubic Feet per Second--Eagle Creek One-Half Mile Below Mouth of Canyon
14. Daily Discharge in Cubic Feet per Second--Eagle Creek Above Diversions
15. Daily Discharge in Cubic Feet per Second--Emerson Creek Above Diversions
16. Names of Current Owners of Lands and Water Rights

Report on

Watermaster Service Within

Surprise Valley Watermaster District

Modoc County, California

For the Season of 1944

INTRODUCTION

Watermaster service was continued in the Surprise Valley Watermaster Service Area during the 1944 season in accordance with Sections 4000 to 4360, inclusive, of Water Code. The service was commenced for the season on March 19, 1944, and was terminated on September 30, 1944.

T. J. McMahon administered the distribution of water from the streams within the service area during the 1944 season, except for the period from March 18 to April 15 when the distribution was administered by J. Victor Scammon. Harrison Smitherum, Supervising Watermaster, directed the work in the field.

WATER SUPPLY

Precipitation

Table 1 gives the monthly and seasonal precipitation at Cedarville for the 1940-41, 1941-42, 1942-43 and 1943-44 seasons, and the mean monthly and seasonal precipitation at that station for the period of record, 1894 to 1944, as compiled from records of the United States Weather Bureau. The table also shows a comparison between the 1943-1944 precipitation and the 1894-1944 mean. The seasonal precipitation for 1943-44 was 83.3 per cent of the mean.

Table 2 contains the results of snow surveys made annually at the four courses in the Upper Pit River watershed. Considering the two snow courses on the Warner Range, namely Eagle Peak and Cedar Pass, the water content of the snow on these two courses was 68.9 per cent and 56.4 per cent of their deduced normals. The mean of these two figures is 62.7 per cent.

Stream Flow

Measuring stations, equipped with water-stage recorders, were maintained on the streams within the Surprise Valley Watermaster Service Area as listed below. The streams are listed geographically in order from north to south. As nearly as is practicable each station is located above all diversions on the particular stream. On Pine Creek the measurements were made by means of two 4-foot Parshall Measuring Flumes installed at the point where the stream divides into the north and south channels. The other stations were rated by means of current meter measurements taken at various stages of the streams throughout the period of watermaster service. The records of discharge for the several streams within the area are presented in Tables 3 to 15, inclusive, at the end of this report. The adequacy of the water supply to fill the requirements on the various streams is discussed for each stream under the chapter heading "Distribution of Water".

Mill Creek above diversions

Soldier Creek above diversions

Pine Creek above North and South Channels

Cedar Creek above diversions

North Deep Creek above diversions

South Deep Creek below Espil Ditch

Owl Creek below Allen-Arreche Ditch

Rader Creek above Parshall Flume Diversion Structure

Eagle Creek one-half mile below mouth of canyon

Emerson Creek above diversions

DISTRIBUTION OF WATER

Distribution on the various streams within the service area 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.

Mill Creek

The regulation of diversions from Mill Creek was made in accordance with the allotments and priorities set forth in the decree in the case of Warrens v. Wimer, No. 3024, Superior Court, Modoc County, dated December 19, 1931. The amounts of water available for distribution were determined from the flow at the measuring station on Mill Creek above all diversions. The record of daily discharge at this station for the 1944 season is submitted in Table 3 at the end of this report.

No irrigation water from Mill Creek was used on the Baty or Warrens ranches during the 1944 season, thus making it possible to meet all demands from other users for water during April, May and June. The third priority water was exhausted the latter part of July. The second priority rights received full allotments until the 9th of August, and full allotments were available for the first priority rights throughout the season.

Rutherford Creek had ample water to meet all requirements throughout the season, and first priority water was available during the entire period.

Soldier Creek

The diversions from Soldier Creek were regulated in accordance with the provisions of the decree in the case of San Francisco Cattle Loan Co. v. Cramton, No. 2405, Superior Court, Modoc County, dated November 28, 1926, and

additional appropriative rights initiated subsequent to said decree. The amounts of water available for distribution were determined from the flow at the measuring station on Soldier Creek above all diversions. The record of daily discharge at this station for the 1944 season is submitted in Table 4.

All ditches on Soldier Creek were opened in 1944, and all users exercised their full legal rights whenever water was available therefor, excepting the Jones Ditch, Diversion 10, which serves the J. W. Ledford property under an "additional appropriative right".

Rotation was practised from March 19 until June 19, in accordance with the decree. The Daniels ranch at no time during the season diverted more than 1.00 c.f.s. from Soldier Creek, as the supply from Daniels Canyon and Simpson Canyon was ample to supply most of its needs.

At all times when flood water was available during the season, it was allowed to flow down the East Branch of Soldier Creek for use on the Patch ranch. However, flood stages were usually of such short duration that, due to heavy channel losses, only a small percentage of this water actually reached the Patch ranch. No water was available for the "additional appropriative rights" during the 1944 season.

Full allotments were available only for short intervals during the rotation periods of both the Lower and the Upper Users. Beginning the latter part of June the flow diminished steadily, so that only 82 per cent of first priority water was available in September.

Pine Creek

The diversions from Pine Creek were regulated in accordance with the decree in the case of Gaustad v. McCulley, No. 3391, Superior Court, Modoc County, dated December 7, 1936. The amount of water available for distribution was determined at the two Parshall Measuring Flumes on the North and South

Channels of Pine Creek. The record of daily discharge above diversions for the 1944 season is submitted in Table 5.

The water supply of Pine Creek was sufficient to complete the first rotation by April 26. The second rotation was then commenced, and continued until May 15 when the flow diminished to 4.0 c.f.s., and all the water was turned to Harris and McCulley for rotation. On May 25, the flow having diminished to 1.5 c.f.s., all the water was turned into the Cressler Ditch for W. E. Hill. On June 9, the discharge having increased to 3.5 c.f.s., the water was again turned to Harris and McCulley.

Due to increased flow, the second rotation was resumed on June 15, and completed on June 27, when the water was returned to Harris and McCulley. On July 3, the water was again turned into the Cressler ditch for W. E. Hill until July 12. On that date the entire flow of the creek was turned to John Freeborn.

The Royce first priority allotment of 0.08 c.f.s. was not diverted at any time during the 1944 season.

Cedar Creek

Distribution on Cedar Creek was made in accordance with the water rights defined in the cases of Hill v. Acty, No. 2343, and Lighty v. Cook, No. 1206, Superior Court, Modoc County, and Agreement re. Right of Jake Rechsteiner to divert water from Cedar Creek. Water diverted from Thoms Creek into Cedar Creek through the Cedar Pass Ditch, the rights to which are set forth in the North Fork Pit River Decree, No. 4074, Superior Court, Modoc County, dated December 14, 1939, and in the said Lighty v. Cook decree, was also distributed to the rightful owners. The amounts of water available for distribution were determined from measurements taken at a Parshall Measuring Flume on the Cedar Pass Ditch, and at the measuring station on Cedar Creek above diversions. The record of daily discharge at the Cedar Creek station for 1944, which includes the water diverted from Thoms Creek, is submitted in Table 6.

Water was available for only the first and second priority rights on Cedar Creek in 1944. The Cedar Pass Ditch from Thoms Creek was opened the latter part of March and ran intermittently until July 13. No water was diverted during 1944 by the Harry Hill Ranch or the W. E. Hill Ranch. The Meyers (Acty) Ditch, Diversion 9, and the Rechsteiner Ditch were not opened in 1944. Stock and garden water was available at the McCulley Ranch throughout the season.

Deep Creek

The diversions from Deep Creek were regulated in accordance with the water rights defined in the decree in the case of Tyeryar v. Benner, No. 3101, Superior Court, Modoc County, dated January 25, 1934. The amounts of water available were determined from measurements taken at the measuring stations on North and South Deep Creeks. The records of daily discharge for 1944 for North and South Deep Creek are shown in Tables 7 and 8, respectively. A summation of the results for these two stations has been tabulated in Table 9.

During periods in April, May and June second priority water was available, but there was no water available in the later priorities at any time during the season. Garden water was available for first priority users throughout the season.

Owl Creek

The regulation of diversions from Owl Creek was made in accordance with the allotments and priorities set forth in the decree in the case of Cummins v. Allen, No. 2410, Superior Court, Modoc County, dated April 29, 1929. The amount of water available for distribution was determined from measurements of the flow of Owl Creek taken at the measuring station below the Allen-Arreche Ditch. The record of daily discharge at this station is shown in Table 10.

Until the latter part of July there was sufficient water to satisfy the first twelve priorities. Through August and September the water supply

steadily dimished. However, the supply was sufficient to furnish garden and stock water to the Daussat and Heryford ranches throughout the season.

Rader Creek

The waters of Rader Creek were distributed in accordance with the water rights defined in the decree in the case of Powers v. Woodruff, No. 3626, Superior Court, Modoc County, dated June 4, 1937. The amounts of water available for distribution were determined from measurements taken at the measuring station on Rader Creek above the Parshall Flume division structure. The record of daily discharge at this station for 1944 is submitted in Table 11. The summation of the flow at this station and the amounts of water diverted above it is shown in Table 12.

Water was available in varying amounts for all rights on Rader Creek during 1944. On May 20, the McCulley-Hudspeth Ditch was opened and regulated to divert one-seventh of the flow of the creek at the point of diversion. The ditch was closed on August 3, when the water failed to reach the place of use.

Stock water was available throughout the season for Woodruff, Minto, Powers and Miura.

A new concrete diversion structure was built on Rader Creek at the head of the McCulley-Hudspeth Ditch during the fall of 1943. The structure is equipped with flashboards and weirs to control and measure the water to both the creek channel and the McCulley-Hudspeth Ditch.

Eagle Creek

Regulation of the ditches diverting water from Eagle Creek was made in accordance with the allotments and priorities set forth in the decree in the case of Harris v. Adams, No. 3284, Superior Court, Modoc County, dated November 5, 1937. The amount of water available for distribution was determined from measurements taken at the measuring station on Eagle Creek. The record of daily discharge at this station for the 1944 season is shown in Table 13. A record

of daily discharge above all diversions has been compiled by adding the quantities diverted above the measuring station to the amounts shown in Table 13. This compilation is submitted in Table 14.

The flow of Eagle Creek was low until the last of April when the snow-melt began. Prior to that date only first and second priority water was available. Third priority users received water in varying amounts from April 29 to July 23.

The Town Users rotated in the use of water from the Gee and Grider ditches during August and September. Copies of the schedules used when rotation is practised are included in the "Report on Watermaster Service, Surprise Valley Watermaster District, 1940 Season."

Emerson Creek

The ditches diverting from Emerson Creek were regulated in accordance with the allotments and priorities set forth in the decree in the case of Murphy v. Warren, No. 2840, Superior Court, Modoc County, dated March 25, 1930. The amount of water available for distribution was determined from measurements taken at the measuring station on Emerson Creek. The record of daily discharge at this station for 1944 is submitted in Table 15.

Second priority water was available in varying amounts from the last of March to the first of August, but third priority users received water only for a few days during May. Sufficient water was available at all times to satisfy garden and stock water demands.

Ownership of Lands and Water Rights Within Surprise Valley Watermaster Service Area

Changes in Ownership

The changes in ownership of lands and water rights which have occurred subsequent to filing "Statement for Surprise Valley Watermaster Service Area, County of Modoc, State of California for 1944", and which shall be included

in the statement for said watermaster service area for 1945, are listed in the following tabulation:

Tract No.	Name of Water Right Owner Appearing in 1944 Statement	Name of Water Right Owner to Appear in 1945 Statement	Amount of water c.f.s.
3	Nannie Daniels	Roy Hobbs	1.00
4	Nannie Daniels	William Hays	1.55
16	S. B. Strief	Grady Henderson	0.99
20	Fred E. Wimer	A. Peterposten	1.03
23	Estate of E. P. Strief	John Vernon	0.18
46	Charles Carter and Frances Heard	Charles Carter	0.50
48	E. C. White	A. Peterposten	1.38
80	Grace L. Beebe	Vancel L. Beebe	2.60
81	Jake Rechsteiner	W. H. Bonham	1.50
84	Eva M. Rinehart	Earl R. Rinehart	0.80
86	Frank J. Kerr	George M. Warrens	1.48) 0.40)
87	Frank J. Kerr	Kenneth D. and Ruth A. Horton	1.00
88	Frank J. Kerr	Kenneth D. and Ruth A. Horton	0.90) 0.92)
91	Paul J. and Adele Balog and Erwin and Alice Trich	Oliver and Ollie Cramton	5.00
93	S. V. Street	Walter O. Hussa and Mrs. F. A. Quierlo	2.75
96	S. V. Street	A. E. and Nettie Schlotthauer	2.08
99	Alfred K. and Marion F. Sweet	Alfred K. Sweet	1.04
115	T. J. Wiley and Alicia Wehr	W. B. McKnight	3.34
137	Niels H. Finmand	Estate of Niels H. Finmand	0.06
146	L. J. Barber	Henry and Edna Beeman	0.055
152	L. J. Barber	Henry and Edna Beeman	0.26
159	Margaret Connolly		0.04

Tract No.	Name of Water Right Owner Appearing in 1944 Statement	Name of Water Right Owner to Appear in 1945 Statement	Amount of Water c.f.s
164	Estate of Charlie Lee Pabst	Etta M. and Lige H. Langston	4.20
167	Fred and Elizabeth Meyers	Frank Nolan	2.90
177	Floyd Cook and Kenneth	Jose Bioconda	1.40
180	A. B. Catlin	Jose Bioconda	0.25
181	L. D. Wimer	Jose Bioconda	0.25
184	Niels H. Finmand	Estate of Niels H. Finmand	3.90

TABLE 1

PRECIPITATION AT CEDARVILLE, CALIFORNIA, 1894-1944, ELEVATION 4,675 FEET
MONTHLY, SEASONAL, AND AVERAGE AMOUNTS IN INCHES

Season	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Seasonal
1940-1941	1.04	1.40	1.23	1.38	1.41	1.77	0.67	0.58	1.77	1.33	1.32	1.09	14.99
1941-1942	0.34	1.38	1.50	2.79	0.58	1.29	0.43	1.35	1.40	0.73	0	0.16	11.95
1942-1943	0.19	T	2.84	1.66	3.66	1.42	1.12	1.40	0.79	0.68	0.12	T	13.88
1943-1944	T	1.70	0.09	0.40	0.93	1.52	0.77	1.30	0.25	2.56	0.56	T	10.08
Mean 1894-1944	0.53	1.04	1.47	1.46	1.72	1.51	1.45	0.92	0.91	0.71	0.22	0.16	12.10
1943-1944 in Per-Cent of Mean	0	163.5	6.1	27.4	54.1	100.7	53.1	141.3	27.5	360.6	254.5	0	83.3

Note: See Surprise Valley Watermaster District Report for 1940 and Soldier Creek reports prior to 1940 for previous records.

TABLE 1X 2
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		
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		
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		
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		
Record Average—Inches								14.32	15.35	14.8	14.9	14.8	14.8	15.5	15.3		
% 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		
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	3/23		
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		
Water Content Inches	13.0	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		
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		
Record Average—Inches								15.9	16.9	16.3	16.1	16.3	16.0	17.2	16.9		
% 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		

TABLE 2 (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		
Depth of Snow-Inches											16.3	18.8	28.9	34.9	23.0		
Water Content-Inches											6.4	8.5	11.7	15.3	8.5		
Density—Percent											39.2	45.2	40.5	43.8	37.0		
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		
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		
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		
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		
Record Average-In.								11.5	13.3	12.8	12.0	12.0	12.1	12.2	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	114.9	108.2	78.3		

TABLE 5

Daily Discharge in Cubic Feet per Second

MILL CREEK ABOVE DIVERSIONS

March 23 to September 30, 1944

Day	March	April	May	June	July	August	September
1		9.5	24.4	20.7	12.0	3.7	2.7
2		10.0	19.9	19.9	12.8	3.6	2.7
3		10.6	15.8	18.4	12.8	3.6	2.8
4		11.2	16.4	15.8	12.8	3.6	2.7
5		9.2	17.7	16.4	12.8	3.5	2.7
6		8.6	23.4	17.7	10.8	3.6	2.7
7		8.2	24.4	18.4	10.0	3.5	2.7
8		8.9	28.0	27.2	10.4	3.5	2.7
9		8.2	31.7	28.0	9.6	3.4	2.7
10		8.6	31.7	17.0	9.2	3.2	2.7
11		10.0	32.6	15.8	9.6	3.2	2.6
12		9.6	38.0	14.7	9.2	3.2	2.5
13		9.2	40.8	15.8	8.9	3.1	2.6
14		9.2	34.4	15.2	8.9	3.1	2.6
15		10.4	29.9	12.4	8.2	3.1	2.6
16		10.8	27.2	17.7	8.2	3.1	2.6
17		10.0	24.4	19.9	8.2	3.1	2.6
18		9.6	22.4	19.9	7.9	3.0	2.5
19		10.8	20.7	19.9	7.9	3.1	2.5
20		10.2	22.4	20.7	7.9	3.0	2.5
21		9.6	23.4	12.4	7.3	3.0	2.5
22		9.6	22.4	12.0	7.3	3.0	2.5
23	7.6	10.0	19.9	11.5	7.0	2.9	2.5
24	7.0	9.2	19.1	12.4	6.7	2.9	2.5
25	6.4	7.6	19.1	13.2	6.7	2.9	2.5
26	5.6	7.6	19.1	13.7	6.7	2.9	2.5
27	6.4	9.6	19.1	13.2	6.4	2.8	2.5
28	7.0	14.7	19.9	13.2	6.2	2.8	2.5
29	7.6	27.2	19.1	12.8	5.4	2.8	2.5
30	8.6	26.2	20.7	12.0	4.3	2.8	2.5
31	9.0	-	22.4	-	3.7	2.8	-
Total	*65.2	324.1	750.4	497.9	265.8	97.8	77.7
Mean	* 7.2	10.8	24.2	16.6	8.6	3.2	2.6
Runoff in A.F.	* 129	643	1,490	988	527	194	154

Total run-off of 192-day period was 4,130 acre-feet

* 9-day period

TABLE 4

Daily Discharge in Cubic Feet per Second

SOLDIER CREEK ABOVE DIVERSIONS

March 18 to September 30, 1944

Day	March	April	May	June	July	August	September
1		13.7	25.9	8.3	4.6	3.9	2.7
2		16.5	24.3	9.2	4.2	3.8	2.6
3		16.1	22.7	9.5	3.7	3.9	2.6
4		12.0	27.5	8.3	3.5	3.7	2.6
5		9.7	32.9	7.5	3.0	3.4	2.6
6		9.2	29.5	7.0	3.0	3.3	2.6
7		9.7	28.5	7.0	3.0	3.3	2.4
8		9.0	28.0	6.8	3.0	3.2	2.1
9		9.3	21.6	7.7	3.0	3.1	2.1
10		9.6	21.6	6.7	3.1	3.0	1.9
11		9.9	23.2	6.1	3.1	3.0	1.8
12		9.0	17.5	6.5	3.2	3.0	1.6
13		8.5	17.0	6.3	3.1	3.0	1.6
14		7.7	17.5	6.3	3.1	3.0	1.6
15		8.5	13.7	5.7	3.2	3.0	1.6
16		8.5	10.7	11.8	3.3	3.0	1.5
17		7.7	9.9	18.0	3.4	3.0	1.5
18	8.1	7.9	9.5	20.6	3.4	3.0	1.5
19	7.3	9.0	9.5	15.7	3.5	3.0	1.5
20	5.6	8.3	11.0	19.5	3.7	2.9	1.4
21	5.1	7.5	12.0	18.5	3.9	2.9	1.4
22	5.7	9.7	9.9	14.5	3.9	2.8	1.5
23	6.7	13.0	9.0	11.5	4.0	2.8	1.4
24	6.7	11.8	8.5	10.2	4.0	2.8	1.3
25	6.1	9.7	8.5	9.2	3.9	2.8	1.3
26	5.5	9.9	8.7	8.7	4.0	2.8	1.3
27	5.0	11.5	8.5	8.5	3.9	2.8	1.3
28	4.8	22.2	8.5	7.9	3.9	2.8	1.2
29	6.5	27.5	8.5	6.5	4.0	2.7	1.2
30	7.7	28.0	8.5	5.3	3.9	2.7	1.2
31	9.7	-	8.5	-	3.9	2.7	-
Total	* 90.5	350.6	501.1	295.3	110.4	95.1	52.9
Mean	* 6.5	11.7	16.2	9.8	3.6	3.1	1.8
Runoff in A.F.	*180	695	994	586	219	189	105

Total run-off of 197-day period was 2,970 acre-feet

* 14-day Period

TABLE 5

Daily Discharge in Cubic Feet per Second

PINE CREEK ABOVE DIVERSIONS

March 19 to September 30, 1944

Day	March	April	May	June	July	August	September
1		2.5	12.0	1.0	2.4	0.2	0.1
2		2.8	10.0	1.0	1.7	0.2	0.1
3		3.0	7.7	1.7	1.3	0.2	0.1
4		3.7	8.8	1.2	0.9	0.2	0.1
5		3.7	8.5	1.1	0.8	0.2	0.1
6		3.5	12.0	0.9	0.8	0.2	0.1
7		3.7	10.9	1.1	0.6	0.2	0.1
8		4.6	9.8	1.8	0.5	0.2	0.1
9		4.1	9.2	3.5	0.5	0.2	0.1
10		4.3	6.9	3.4	0.5	0.2	0.1
11		4.7	5.0	3.4	0.4	0.2	0.05
12		4.3	4.8	3.1	0.3	0.2	0.05
13		4.4	4.7	3.0	0.3	0.2	0.05
14		4.1	4.3	2.8	0.2	0.1	0.05
15		4.2	3.8	6.5	0.2	0.1	0.05
16		4.1	3.6	8.0	0.2	0.1	0.05
17		4.0	3.5	8.3	0.2	0.1	0.05
18		3.8	3.1	8.0	0.2	0.1	0.05
19	3.0	3.9	3.2	7.1	0.2	0.1	0.05
20	3.3	4.2	3.0	7.8	0.2	0.1	0.05
21	3.0	4.5	2.7	6.2	0.2	0.1	0.05
22	3.1	3.5	2.5	5.4	0.2	0.1	0.05
23	3.1	9.5	2.2	5.5	0.2	0.1	0.05
24	3.0	9.2	1.9	5.3	0.2	0.1	0.05
25	2.8	9.5	1.5	5.1	0.2	0.1	0.05
26	2.4	9.5	1.4	4.9	0.2	0.1	0.05
27	2.1	8.8	1.4	4.9	0.2	0.1	0.05
28	1.9	13.0	1.1	4.0	0.2	0.1	0.05
29	2.2	13.5	1.1	3.8	0.2	0.1	0.05
30	3.3	12.3	1.0	3.2	0.2	0.1	0.05
31	2.9	-	1.0	-	0.2	0.1	-
Total	*36.1	170.9	152.6	123.0	14.6	4.4	2.0
Mean	* 2.8	5.7	4.9	4.1	0.5	0.14	0.07
Runoff in A.F.	* 72	339	303	244	29	9	4

Total run-off of 196-day period was 1,000 acre-feet

* 13-day Period

TABLE 6

Daily Discharge in Cubic Feet per Second

CEDAR CREEK ABOVE DIVERSIONS

March 22 to September 30, 1944

Day	March	April	May	June	July	August	September
1		10.8	16.6	6.3	12.6	2.0	1.0
2		12.9	18.3	6.3	12.1	2.0	1.0
3		14.1	21.2	6.0	11.3	1.9	0.9
4		12.0	20.4	6.3	10.1	1.9	0.9
5		9.1	23.2	6.5	8.9	1.7	0.9
6		8.7	25.2	6.7	8.4	1.7	0.9
7		8.7	24.8	6.7	8.0	1.6	1.0
8		9.1	26.0	8.1	7.7	1.5	1.0
9		8.4	24.4	10.0	7.2	1.5	0.9
10		9.6	25.2	7.5	6.5	1.5	0.9
11		10.0	21.2	6.7	5.9	1.3	0.8
12		10.0	18.3	6.0	5.1	1.3	0.8
13		10.0	19.1	6.0	5.0	1.6	0.8
14		10.0	19.1	6.0	4.9	1.7	0.8
15		10.8	18.3	6.3	4.3	1.7	0.8
16		11.6	16.6	14.1	3.8	1.6	0.8
17		11.6	15.4	12.9	3.7	1.6	0.8
18		12.9	10.8	14.9	3.7	1.6	0.8
19		12.9	8.4	15.8	3.2	1.6	0.8
20		12.5	7.0	24.4	3.1	1.6	0.9
21		13.3	6.7	30.4	2.8	1.4	0.9
22	6.0	14.1	7.0	27.6	2.7	1.2	0.8
23	7.2	16.6	6.5	20.8	2.7	1.2	0.8
24	7.1	17.0	6.0	19.7	2.5	1.2	0.8
25	7.0	15.4	5.8	19.4	2.4	1.2	0.8
26	6.4	15.4	5.6	19.3	2.3	1.2	0.8
27	6.1	16.6	5.6	18.9	2.3	1.1	0.8
28	5.8	22.0	5.8	14.4	2.7	1.0	0.7
29	6.5	10.0	5.8	14.0	2.7	1.0	0.8
30	7.8	17.0	6.0	13.3	2.3	1.1	0.8
31	8.7	-	6.3	-	2.2	1.0	-
Total	* 68.6	373.1	446.6	381.3	163.1	45.5	25.5
Mean	* 6.9	12.4	14.4	12.7	5.3	1.5	0.9
Runoff in Acre Feet	*136	740	886	756	324	90	51

Total run-off of 193-day period was 2,980 acre-feet

* 10-day Period

TABLE 7

Daily Discharge in Cubic Feet per Second

NORTH DEEP CREEK ABOVE DIVERSIONS

March 22 to September 30, 1944

Day	March	April	May	June	July	August	September
1		2.9	4.0	2.8	4.2	2.5	0.4
2		2.8	4.0	2.7	3.9	2.4	0.5
3		2.9	3.9	2.6	3.9	2.3	0.5
4		3.0	3.9	2.7	3.8	2.4	0.5
5		3.0	3.9	2.7	3.3	1.9	0.5
6		3.0	3.9	2.7	3.2	1.5	0.5
7		3.0	3.8	2.6	3.2	1.1	0.5
8		3.0	3.8	2.6	3.1	0.9	0.5
9		3.0	3.6	2.5	3.2	0.8	0.5
10		3.0	3.5	2.5	3.2	0.6	0.6
11		3.0	3.3	2.5	3.1	0.6	0.5
12		3.0	3.3	2.6	3.1	0.6	0.5
13		2.9	3.2	2.5	3.0	0.5	0.5
14		3.0	3.1	2.5	3.1	0.5	0.5
15		3.2	3.2	2.6	3.0	0.6	0.5
16		3.5	3.4	3.5	2.9	0.5	0.4
17		3.3	3.3	3.5	2.8	0.4	0.4
18		3.7	3.3	3.7	2.8	0.4	0.4
19		3.9	3.2	3.9	2.8	0.4	0.5
20		4.0	3.0	4.5	2.7	0.4	0.5
21		3.9	3.0	6.7	2.8	0.4	0.5
22	3.0	3.8	3.0	5.8	2.7	0.3	0.5
23	3.1	3.9	3.0	5.3	2.7	0.3	0.5
24	3.2	3.9	3.1	5.0	2.6	0.3	0.4
25	3.0	3.7	3.0	5.0	2.6	0.3	0.4
26	2.9	3.5	2.9	5.0	2.5	0.3	0.5
27	2.7	3.7	2.9	4.7	2.5	0.3	0.4
28	2.4	4.0	2.8	4.6	2.6	0.4	0.5
29	2.5	4.0	2.9	4.7	2.5	0.4	0.5
30	2.7	4.0	2.9	4.5	2.5	0.4	0.5
31	2.8	-	2.8	-	2.5	0.4	-
Total	* 28.3	101.5	102.9	109.5	92.8	25.1	14.4
Mean	* 2.8	3.4	3.3	3.7	3.0	0.8	0.5
Runoff in Acre Feet	* 56	201	204	217	184	50	29

Total run-off of 193-day period was 941 acre-feet

* 10-day Period

TABLE 8

Daily Discharge in Cubic Feet per Second
SOUTH DEEP CREEK BELOW ESPIL DITCH
March 22, to September 30, 1944

Day	March	April	May	June	July	August	September
1		7.0	14.2	4.7	8.2	2.1	0.7
2		8.8	14.2	5.1	7.9	1.8	0.7
3		10.4	13.0	4.9	7.8	1.7	0.7
4		9.2	13.0	4.3	7.6	1.8	0.6
5		7.0	15.2	3.9	7.5	1.7	0.6
6		6.9	15.8	4.0	7.6	1.7	0.7
7		6.9	15.5	4.0	7.2	1.6	0.7
8		6.9	15.8	4.2	7.1	1.6	0.6
9		5.8	15.8	4.3	6.9	1.5	0.6
10		6.1	14.2	4.4	6.9	1.4	0.6
11		6.9	13.0	4.4	6.7	1.4	0.5
12		7.0	11.6	5.0	6.6	1.4	0.5
13		7.0	8.2	4.8	6.4	1.3	0.5
14		7.0	8.5	4.9	5.9	1.4	0.5
15		9.2	8.0	4.9	5.6	1.3	0.5
16		9.4	8.2	7.4	5.3	1.3	0.5
17		9.5	8.5	11.3	4.9	1.2	0.5
18		9.8	8.0	11.3	4.5	1.2	0.5
19		9.9	7.2	11.3	4.0	1.1	0.4
20		10.1	6.9	14.5	3.9	1.0	0.4
21		8.5	6.8	16.2	3.7	1.1	0.4
22	4.1	7.9	6.6	13.8	3.4	1.0	0.4
23	4.3	8.2	6.5	12.1	3.1	1.0	0.5
24	4.7	8.2	6.5	11.9	3.0	0.9	0.5
25	4.3	6.9	6.4	10.2	2.9	0.9	0.5
26	3.9	6.4	6.3	9.4	2.8	0.9	0.4
27	3.5	7.0	5.9	9.1	2.9	0.8	0.4
28	3.4	12.7	5.5	8.6	2.7	0.9	0.4
29	3.8	14.8	5.1	8.4	2.6	0.8	0.4
30	4.3	14.5	5.0	8.3	2.6	0.8	0.4
31	5.5	-	4.9	-	2.4	0.7	-
Total	* 41.8	255.9	300.3	231.6	160.6	39.3	15.6
Mean	* 4.2	8.5	9.7	7.7	5.2	1.3	0.5
Runoff in Acre Feet	* 83	508	596	459	319	78	31

Total run-off of 193-day period was 2,070 acre-feet

* 10-day Period

TABLE 9

Daily Discharge in Cubic Feet per Second
NORTH AND SOUTH DEEP CREEK ABOVE DIVERSIONS
March 22 to September 30, 1944

Day	March	April	May	June	July	August	September
1		9.9	18.2	7.5	12.4	4.6	1.1
2		11.6	18.2	7.8	11.8	4.2	1.2
3		13.3	16.9	7.5	11.7	4.0	1.2
4		12.2	16.9	7.0	11.4	4.2	1.1
5		10.0	19.1	6.6	10.8	3.6	1.1
6		9.9	19.7	6.7	10.8	3.2	1.2
7		9.9	19.3	6.6	10.4	2.7	1.2
8		9.9	19.6	6.8	10.2	2.5	1.1
9		8.8	19.4	6.8	10.1	2.3	1.1
10		9.1	17.7	6.9	10.1	2.0	1.2
11		9.9	16.3	6.9	9.8	2.0	1.0
12		10.0	14.9	7.6	9.7	2.0	1.0
13		9.9	11.4	7.3	9.4	1.8	1.0
14		10.0	11.6	7.4	9.0	1.9	1.0
15		12.4	11.2	7.5	8.6	1.9	1.0
16		12.9	11.6	10.9	8.2	1.8	0.9
17		12.8	11.8	14.8	7.7	1.6	0.9
18		13.5	11.3	15.0	7.3	1.6	0.9
19		13.8	10.4	15.2	6.8	1.5	0.9
20		14.1	9.9	19.0	6.6	1.4	0.9
21		12.4	9.8	22.9	6.5	1.5	0.9
22	7.1	11.7	9.6	19.6	6.1	1.3	0.9
23	7.4	12.1	9.8	17.4	5.8	1.3	1.0
24	7.9	12.1	9.6	16.9	5.6	1.2	0.9
25	7.3	10.6	9.4	15.2	5.5	1.2	0.9
26	6.8	9.9	9.2	14.4	5.3	1.2	0.9
27	6.2	10.7	8.8	13.8	5.4	1.2	0.8
28	5.8	16.7	8.3	13.2	5.3	1.3	0.9
29	6.3	18.8	8.0	13.1	5.1	1.2	0.9
30	7.0	18.5	7.9	12.8	5.1	1.2	0.9
31	8.3	-	7.7	-	4.9	1.1	-
Total	* 70.1	357.4	403.5	341.1	253.4	64.5	30.0
Mean	* 7.0	11.9	13.0	11.4	8.2	2.1	1.0
Runoff in Acre Feet	*139	709	800	677	503	128	60

Total run-off of 193-day period was 3,020 acre-feet

* 10-day Period

TABLE 10

Daily Discharge in Cubic Feet per Second

OWL CREEK BELOW ALLEN ARRECHE DITCH

March 24 to September 30, 1944

Day	March	April	May	June	July	August	September
1		15.3	18.8	12.6	13.9	13.8	2.8
2		15.4	18.5	12.5	14.4	13.1	2.7
3		15.6	18.5	12.2	14.9	12.5	2.6
4		15.5	18.8	12.1	15.4	11.9	2.6
5		15.6	22.3	11.8	15.4	11.2	2.5
6		15.7	21.9	11.7	15.3	10.3	2.4
7		15.7	21.8	11.4	15.3	9.8	2.5
8		15.8	21.6	11.2	15.1	9.4	2.4
9		15.6	21.8	11.1	15.2	8.9	2.4
10		15.6	21.5	10.7	15.4	8.3	2.3
11		15.7	21.5	10.3	15.4	7.2	2.3
12		15.7	21.2	9.9	15.5	5.9	2.1
13		15.6	21.3	9.4	15.4	5.1	2.0
14		15.5	21.0	9.0	14.8	4.2	2.0
15		15.5	19.7	8.6	15.2	4.0	1.9
16		15.5	19.5	13.1	15.7	3.9	1.9
17		15.5	19.6	18.9	15.8	3.9	1.8
18		15.4	19.2	22.4	15.5	3.8	1.7
19		15.5	19.1	14.2	15.3	3.8	1.8
20		15.5	22.4	20.6	15.4	3.7	1.8
21		15.2	23.2	17.4	15.2	3.8	1.7
22		15.5	17.5	14.7	15.3	3.6	1.7
23		15.7	16.9	14.9	15.0	3.7	1.6
24	15.1	15.7	16.6	14.1	15.0	3.6	1.6
25	15.0	15.4	15.9	14.0	15.1	3.6	1.6
26	14.6	15.4	15.7	13.8	15.1	3.5	1.5
27	14.2	15.5	14.9	13.7	15.1	3.4	1.6
28	14.2	17.8	14.2	14.4	15.0	3.2	1.6
29	15.0	18.5	13.5	14.1	15.0	3.1	1.5
30	15.2	18.8	12.8	14.0	14.8	3.0	1.5
31	15.1	-	12.7	-	14.6	2.8	-
Total	*118.4	474.7	583.9	398.8	469.5	192.0	60.4
Mean	* 14.8	15.8	18.8	13.3	15.1	6.2	2.0
Runoff in Acre Feet	* 235	942	1,160	791	931	381	120

Total run-off of 191-day period was 4,560 acre-feet

* 8-day Period

TABLE 11

Daily Discharge in Cubic Feet per Second

RADER CREEK ABOVE PARSHALL FLUME DIVISION STRUCTURE

April 1 to September 30, 1944

Day	April	May	June	July	August	September
1	15.6	12.6	12.0	13.4	9.2	1.7
2	15.5	12.9	11.8	13.8	8.6	1.7
3	15.8	13.1	11.9	13.9	7.9	1.8
4	15.9	13.6	11.7	14.1	8.4	1.7
5	16.0	13.9	11.6	14.2	8.0	1.6
6	16.1	14.3	11.6	14.1	6.6	1.6
7	15.9	14.4	11.4	14.3	6.1	1.5
8	15.9	14.8	11.5	14.3	5.9	1.5
9	15.8	14.7	11.3	14.2	5.7	1.4
10	15.7	14.9	11.1	14.1	5.6	1.3
11	15.7	14.9	11.0	14.2	5.6	1.3
12	15.8	14.7	10.8	14.3	5.4	1.2
13	15.8	14.7	10.6	14.3	5.5	1.2
14	15.9	14.4	10.3	14.4	5.0	1.1
15	16.0	13.9	10.0	14.3	4.7	1.1
16	15.9	13.8	13.3	14.3	4.5	1.2
17	15.3	13.6	17.6	14.2	4.4	1.2
18	14.8	13.5	19.9	14.2	4.2	1.2
19	14.8	13.2	14.7	14.1	4.0	1.1
20	14.6	12.1	18.8	14.0	3.9	1.1
21	14.7	12.0	16.9	14.1	3.7	1.1
22	14.3	12.8	15.5	13.8	3.4	1.1
23	14.1	12.6	15.6	13.5	3.2	1.0
24	13.6	12.5	15.0	13.3	2.9	1.0
25	13.2	12.1	14.9	12.9	2.8	1.0
26	12.7	11.0	14.4	12.4	2.6	1.0
27	11.9	11.8	14.1	11.8	2.4	1.0
28	11.3	11.5	13.7	11.2	2.3	1.0
29	12.1	11.6	13.5	10.7	2.1	1.1
30	12.4	11.4	13.1	10.1	2.0	1.1
31	-	12.4	-	9.7	1.9	-
Total	443.1	409.7	399.6	416.2	148.5	37.9
Mean	14.8	13.2	13.3	13.4	4.8	1.3
Runoff in A.F.	879	813	793	826	295	75

Total run-off of 183-day period was 3,680 acre-feet.

TABLE 12

Daily Discharge in Cubic Feet per Second
RADER CREEK ABOVE DIVERSIONS
April 1 to September 30, 1944

Day	April	May	June	July	August	September
1	16.1	13.1	14.0	15.6	11.3	2.0
2	16.0	13.4	13.7	16.1	10.6	2.0
3	16.3	13.6	14.0	16.2	9.9	2.1
4	16.4	14.1	13.9	16.4	8.9	2.0
5	16.5	14.4	13.7	16.5	8.5	1.9
6	16.6	14.8	13.7	16.4	7.1	1.9
7	16.4	14.9	13.5	16.6	6.6	1.8
8	16.4	15.3	13.6	16.6	6.4	1.8
9	16.3	15.2	13.4	16.5	6.2	1.7
10	16.2	15.4	13.2	16.4	6.1	1.6
11	16.2	15.4	13.1	16.5	6.1	1.6
12	16.3	15.2	12.8	16.6	5.9	1.5
13	16.3	15.2	12.6	16.6	6.0	1.5
14	16.4	14.9	12.4	16.7	5.5	1.4
15	16.5	14.4	12.1	16.6	5.2	1.4
16	16.4	14.3	15.7	16.6	5.0	1.5
17	15.8	14.1	20.0	16.5	4.9	1.5
18	15.3	14.0	22.4	16.5	4.7	1.5
19	15.3	13.7	17.2	16.4	4.5	1.3
20	15.1	14.6	21.5	16.1	4.4	1.3
21	15.2	14.1	19.4	16.2	4.2	1.3
22	14.8	14.7	17.9	16.0	3.9	1.3
23	14.6	14.7	18.0	15.8	3.7	1.2
24	14.1	14.5	17.4	15.5	3.4	1.2
25	13.7	14.1	17.3	15.1	3.3	1.2
26	13.2	13.1	16.7	14.6	3.1	1.2
27	12.4	13.8	16.4	14.0	2.9	1.2
28	11.8	13.4	15.9	13.5	2.8	1.2
29	12.6	13.4	15.7	13.0	2.6	1.3
30	12.9	13.2	15.3	12.4	2.5	1.3
31	-	14.1	-	11.6	2.4	-
Total	458.1	443.1	466.5	486.1	168.6	45.7
Mean	15.3	14.3	15.6	15.7	5.4	1.5
Run-off in A.F.	909	879	925	964	334	91

Total run-off of 183-day period was 4,100 acre-feet

TABLE 13

Daily Discharge in Cubic Feet per Second

EAGLE CREEK ONE-HALF MILE BELOW MOUTH OF CANYON

March 29 to September 30, 1944

Day	March	April	May	June	July	August	September
1		6.7	12.0	35.3	33.2	6.0	4.5
2		7.3	12.7	32.5	30.8	5.9	4.5
3		7.4	13.1	30.8	28.1	5.8	4.4
4		6.9	15.1	29.5	26.8	5.7	4.4
5		6.5	21.0	29.5	24.0	5.7	4.4
6		7.0	29.5	32.5	22.5	5.6	4.5
7		6.9	31.4	31.7	20.0	5.5	4.5
8		6.7	36.3	31.0	19.4	5.6	4.4
9		6.2	37.1	30.4	18.7	5.6	4.4
10		6.6	31.4	29.8	18.2	5.3	4.3
11		6.5	24.9	29.3	17.6	5.0	4.3
12		6.3	23.0	28.7	17.0	4.9	4.3
13		6.2	22.5	27.9	16.1	4.9	4.3
14		6.2	24.1	26.1	15.3	4.9	4.3
15		6.1	22.5	2310	14.2	4.9	4.3
16		6.1	17.9	22.1	13.0	4.8	4.3
17		6.1	15.1	18.8	12.1	4.8	4.3
18		6.1	13.1	16.8	11.2	4.9	4.3
19		6.1	12.7	16.1	10.4	4.8	4.3
20		6.0	13.9	18.4	9.3	4.8	4.4
21		6.0	15.1	20.0	8.7	4.9	4.5
22		6.1	15.1	20.0	8.0	4.8	4.4
23		6.5	14.8	22.5	7.6	4.6	4.4
24		6.2	15.4	31.4	7.3	4.5	4.3
25		6.1	19.4	36.2	7.1	4.5	4.3
26		6.0	23.5	40.6	6.9	4.6	4.3
27		5.3	28.1	38.1	6.9	4.5	4.2
28		7.1	32.5	33.8	6.7	4.5	4.2
29	6.0	9.2	35.1	36.7	6.5	4.5	4.1
30	6.0	11.4	35.7	35.4	6.2	4.4	4.1
31	6.2	-	36.2	-	6.1	4.5	-
Total	* 18.2	199.8	700.2	854.9	455.9	155.7	130.2
Mean	* 6.1	6.7	22.6	28.5	14.7	5.0	4.3
Runoff in Acre Feet	* 36	396	1,390	1,700	904	309	258

Total run-off of 186-day period was 4,990 acre-feet

* 3-day Period

TABLE 14

Daily Discharge in Cubic Feet per Second

EAGLE CREEK ABOVE DIVERSIONS

March 29 to September 30, 1944

Day	March	April	May	June	July	August	September
1		7.2	13.0	36.3	34.2	6.5	5.0
2		7.8	13.7	33.5	31.8	6.4	5.0
3		7.9	14.1	31.8	29.1	6.3	4.9
4		7.4	16.1	30.5	27.8	6.2	4.9
5		7.0	22.0	30.5	25.0	6.2	4.9
6		7.5	30.5	33.5	23.5	6.1	5.0
7		7.4	32.4	32.7	21.0	6.0	5.0
8		7.2	37.3	32.0	20.4	6.1	4.9
9		6.7	38.1	31.4	19.7	6.1	4.9
10		7.1	32.4	30.8	19.2	5.8	4.8
11		7.0	25.9	30.3	18.6	5.5	4.8
12		6.8	24.0	29.7	18.0	5.4	4.8
13		6.7	23.5	28.9	17.1	5.4	4.8
14		6.7	25.1	27.1	16.3	5.4	4.8
15		6.6	23.5	24.0	15.2	5.4	4.8
16		6.6	18.9	23.1	14.0	5.3	4.8
17		6.6	16.1	19.8	13.1	5.3	4.8
18		6.6	14.1	17.8	12.2	5.4	4.8
19		6.6	13.7	17.1	11.4	5.3	4.8
20		6.5	14.9	19.4	10.3	5.3	4.9
21		6.5	16.1	21.0	9.7	5.4	5.0
22		6.6	16.1	21.0	9.0	5.3	4.9
23		7.0	15.8	23.5	8.1	5.1	4.9
24		6.7	16.4	32.4	7.8	5.0	4.8
25		6.6	20.4	37.2	7.6	5.0	4.8
26		6.5	24.5	41.6	7.4	5.1	4.8
27		5.8	29.1	39.1	7.4	5.0	4.7
28		7.6	33.5	34.8	7.2	5.0	4.7
29	6.5	10.2	36.1	37.7	7.0	5.0	4.6
30	6.5	12.4	36.7	36.4	6.7	4.9	4.6
31	6.7	-	37.2	-	6.6	5.0	-
Total	* 19.7	215.8	731.2	884.9	482.4	171.2	145.2
Mean	* 6.6	7.2	23.6	29.5	15.6	5.5	4.8
Runoff in Acre Feet	* 39	428	1,450	1,760	957	340	288

Total run-off of 186-day period was 5,260 acre-feet

* 3-day Period

TABLE 15

Daily Discharge in Cubic Feet per Second

EMERSON CREEK ABOVE DIVERSIONS

March 29 to September 30, 1944

Day	March	April	May	June	July	August	September
1		6.2	10.6	11.7	6.2	2.3	1.5
2		6.8	10.2	11.7	5.7	2.3	1.6
3		8.1	10.2	11.3	5.7	2.4	1.6
4		8.1	10.6	10.2	5.2	2.3	1.5
5		6.8	13.3	9.8	5.2	2.2	1.4
6		7.7	15.9	9.8	5.4	2.2	1.4
7		7.7	16.9	9.5	5.5	2.0	1.4
8		7.7	17.4	9.5	5.5	2.3	1.4
9		7.1	18.1	10.2	5.6	2.5	1.5
10		7.1	18.7	9.5	5.5	2.5	1.6
11		7.1	14.1	8.1	5.4	2.4	1.4
12		6.8	13.7	9.1	5.3	2.3	1.6
13		6.5	13.3	9.8	5.3	2.4	1.5
14		6.2	13.3	10.2	5.1	2.3	1.5
15		5.9	13.3	9.5	5.0	2.0	1.5
16		5.7	12.9	10.2	4.8	1.9	1.5
17		5.7	11.7	9.5	4.7	1.6	1.4
18		5.4	10.6	9.1	4.5	1.5	1.4
19		5.7	8.7	8.1	4.1	1.5	1.4
20		5.9	7.1	8.1	3.9	1.5	1.4
21		5.7	6.8	8.3	3.7	1.4	1.4
22		5.7	6.5	8.5	3.6	1.4	1.5
23		5.7	6.2	8.7	3.2	1.4	1.5
24		5.9	6.8	8.6	3.0	1.4	1.5
25		5.7	8.1	8.4	3.0	1.5	1.5
26		5.4	9.8	8.3	3.0	1.5	1.5
27		6.5	9.8	8.1	2.8	1.5	1.4
28		9.5	9.8	8.1	2.8	1.5	1.4
29	4.9	11.3	9.8	7.5	2.6	1.5	1.4
30	5.4	10.6	9.8	6.5	2.5	1.5	1.4
31	5.7	-	10.9	-	2.4	1.5	-
Total	* 16.0	206.2	354.9	275.9	136.2	58.5	44.0
Mean	* 5.3	6.9	11.4	9.2	4.4	1.9	1.5
Runoff in Acre Feet	* 32	409	704	547	270	116	87

Total run-off of 186-day period was 2,170 acre-feet

* 3 - day Period