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QUALITY OF SURFACE WATERS OF THE UNITED STATES 1941

BY

W. D. COLLINS, C. S. HOWARD, AND S. K. LOVE

Prepared in cooperation with the States of
GEORGIA, NEW MEXICO, AND TEXAS
and other agencies

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QUALITY OF SURFACE WATERS OF THE UNITED STATES, 1941

By W. D. Collins, C. S. Howard, and S. K. Love

INTRODUCTION

The water analyses given on the following pages indicate the suitability of the waters examined for industrial or agricultural use, and for domestic use so far as such use is affected by the dissolved or suspended mineral matter in the waters. The samples were collected between October 1, 1940, and September 30, 1941, except for a small number of samples collected before October 1, 1940, which are included so as to cover a whole year of sampling at some points at which sampling was ended before September 30, 1941.

Most of the analyses are of 10-day composites of daily samples collected for a period of a year at a sampling point. The samples from streams were generally taken at points where gages are maintained for measurement of discharge. The discharge corresponding to an analysis of a composite sample is the mean of the daily discharges for the period covered by the daily samples used to make the composite. The discharges reported in the tables of single analyses are mean daily discharges for the days on which the samples were collected.

ANALYTICAL METHODS

For each month three composite samples were regularly made by mixing together equal quantities of daily samples collected from the first to the tenth, the eleventh to the twentieth, and

the remainder of the month. For some streams that are subject to sudden large changes in quality of water composite samples were at times made more frequently on the basis of the salt content indicated by measurements of the conductivity of the daily samples.

The samples were analyzed according to the methods[1/] regularly used by the Geological Survey. The results are reported in parts per million. The constituents determined were not the same on all projects. In the analyses of some waters used for irrigation the quantity of dissolved solids is given in tons per acre-foot as well as in parts per million. The analyses give also results for a property, called "percent sodium," that has a bearing on the suitability of the waters for irrigation. "Percent sodium" is the result obtained by dividing the equivalents per million of sodium and potassium by the equivalents per million of the total cations (usually sodium, potassium, calcium, and magnesium) and multiplying by 100. In analyses of waters carrying fairly large quantities of soluble salts the quantity reported for dissolved solids is the sum of the quantities of the various constituents determined. In other analyses the quantity reported as dissolved solids is the residue on evaporation, heated to 180°C. for one hour. The total hardness as $CaCO_3$ is calculated from the calcium and magnesium. In some of the analyses the noncarbonate hardness is also reported. This is calculated from the total hardness and the bicarbonate.

COOPERATION AND DIVISION OF WORK

The analyses reported were made in connection with various Federal and cooperative projects as described below. The descriptions of the work and the tables of analyses are arranged

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1/ Collins, W. D., Notes on practical water analysis: U. S. Geol. Survey Water-Supply Paper 596-h, pp. 236-261, 1928.

by drainage basins, according to the Geological Survey practice in reporting records of stream flow.

South Atlantic slope and eastern Gulf of Mexico basins

Georgia

The work on the quality of surface waters in Georgia was done as a part of a general study of the water resources of Georgia made under a cooperative agreement between the Geological Survey and the Georgia Division of Mines, Mining and Geology, Capt. Garland Peyton, director.

The sampling and the analytical work were done under the direction of W. L. Lamar, of the Geological Survey. The analyses were made by W. L. Lamar and C. G. Seegmiller. Records of discharge were furnished by F. M. Bell and M. T. Thomson, district engineers, Atlanta, Georgia.

Florida

The work on the quality of surface waters in Florida was confined to an area in the southeastern part of the State. It formed part of a general study of the sources of water available for public and private supplies for Miami, Miami Beach, and the surrounding territory. The study was made under a cooperative agreement between the Geological Survey, Dade County, the city of Miami, the city of Miami Beach, and the city of Coral Gables.

The work on the quality of water was under the direction of S. K. Love. Some of the analyses were made in Washington and some were made in a laboratory in Miami, where space was provided through the cooperation of the Department of Health of the City of Miami. The analyses were made by H. A. Swenson, G. J. Petretic, and J. E. Mykytka. Records of discharge were furnished by D. S. Wallace and G. E. Ferguson, district engineers, Ocala, Fla.

Lower Mississippi River Basin

New Mexico

In cooperation with the Corps of Engineers, U. S. Army, a study was made of the contributions of the Canadian River and the Conchas River to the storage behind Conchas Dam, in New Mexico, and of the quality of the water in the reservoir. The work was under the direction of C. S. Howard. The analyses were made by W. W. Brannock, E. W. Lohr, and N. A. Talvitie.

Western Gulf of Mexico basins

New Mexico

Work on the quality of surface waters in New Mexico through June 30, 1941, was done as a part of a joint investigation of the water resources of the Pecos River Basin which was sponsored by the National Resources Planning Board. After June 30, 1941, the work in New Mexico was done under a cooperative agreement between the Geological Survey and the New Mexico Interstate Stream Commission, Thomas M. McClure, secretary.

The work in New Mexico was under the supervision of C. S. Howard. W. F. White, Jr., was in immediate charge of the program of sampling and of the analysis of samples in the Geological Survey laboratory at Roswell, N. Mex. Records of discharge were furnished by Berkeley Johnson, district engineer, Santa Fe, N. Mex. The analyses were made by W. F. White, Jr., Burdge Irelan, W. L. Lamar, N. L. Lewis, E. W. Lohr, L. W. Miller, E. D. Parsons, M. D. Reeves, R. J. Rutman, and N. A. Talvitie.

Texas

Work on the quality of the water of the Pecos River in Texas through June 30, 1941, was done as a part of a joint investigation of the water resources of the Pecos River Basin

which was sponsored by the National Resources Planning Board.

After June 30, 1941, the work in Texas was done under cooperative agreements between the Geological Survey and the Red Bluff Water Power Control District, J. D. Shaw, trustee's agent, and between the Geological Survey and the Texas State Board of Water Engineers, which consisted of C. S. Clark, chairman, A. H. Dunlap, and J. W. Pritchett. The work was under the general supervision of C. S. Howard. W. W. Hastings was in direct charge of the sampling and of the analysis of the samples in the Geological Survey laboratory at Pecos, Tex., through June 30, 1941. Analyses from July 1 to September 30, 1941, were made in the laboratory at Roswell, N. Mex., under the direction of W. F. White, Jr. The analyses were made by W. W. Hastings, Burdge Irelan, R. G. Kerlin, N. L. Lewis, E. D. Parsons, R. J. Rutman, and W. F. White, Jr. Records of discharge were furnished by C. E. Ellsworth, district engineer, Austin, Tex.

Colorado River Basin

Study of the quality of the water of the Colorado River and tributaries has been a continuing Federal project under the direction of C. S. Howard, with the cooperation of the following district engineers of the Geological Survey: J. H. Gardiner, Tucson, Ariz.; Robert Follansbee, Denver, Colo.; Berkeley Johnson, Santa Fe, N. Mex.; and A. B. Purton, Salt Lake City, Utah. Samples were collected from Lake Mead by the Bureau of Reclamation and from the Gila River at the Ashurst-Hayden Dam by the Office of Indian Affairs. The analyses were made by C. S. Howard, W. W. Brannock, F. H. Davis, M. D. Foster, J. D. Hem, E. W. Lohr, L. W. Miller, M. D. Reeves, and N. A. Talvitie.

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South Atlantic slope and eastern Gulf of Mexico basins

Chattahoochee River at Columbus, Ga.

(Analyses in parts per million)

Date	Mean discharge (second-feet)	Temperature (° F.)	Suspended matter	Oxygen consumed		Color	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids	Total hardness as $CaCO_3$
				Unfiltered	Filtered														
Oct. 1-10, 1940	1,730	70	18	2.7	2.2	12	10	0.03	3.9	1.5	5.2	1.6	21	5.4	3.4	0.1	1.0	44	16
Oct. 11-20	1,536	68	13	2.9	2.5	11	12	.08	4.2	1.4	5.9	1.3	22	5.1	3.8	.1	.99	47	16
Oct. 21-31	1,531	67	10	2.0	1.8	8	11	.05	4.2	1.5	6.2	1.5	22	6.8	4.0	.1	.98	47	17
Nov. 1-10	1,753	64	8	1.7	1.6	13	10	.08	4.4	1.5	6.6	1.5	23	6.0	4.2	.1	1.2	49	17
Nov. 11-20	2,715	57	18	2.2	1.6	17	10	.10	4.2	1.6	6.4	1.8	23	6.2	4.6	.1	1.2	50	17
Nov. 21-30	2,750	55	16	2.0	1.7	18	11	.16	4.0	1.5	6.2	1.5	22	6.1	4.4	.1	1.1	50	16
Dec. 1-10	2,948	51	18	2.0	1.4	14	12	.14	3.9	1.5	5.9	1.5	23	4.5	4.5	.1	1.2	50	16
Dec. 11-20	4,444	51	20	-	1.6	6	11	.11	4.3	1.5	6.0	1.5	21	5.5	4.1	.1	1.1	48	17
Dec. 21-31	5,430	52	46	2.4	1.5	7	12	.13	4.0	1.4	5.2	1.3	19	4.8	3.9	.1	.89	45	16
Jan. 1-10, 1941	6,311	51	76	2.7	1.5	7	9.9	.05	3.8	1.2	4.2	1.3	17	4.7	3.2	.1	.91	40	14
Jan. 11-20	5,971	47	41	1.9	1.2	6	12	.05	3.7	1.2	4.5	1.2	16	5.6	3.1	.1	.85	37	14
Jan. 21-31	4,475	48	22	2.2	1.4	8	11	.06	3.9	1.4	4.7	.9	19	4.4	3.4	.1	.49	43	15
Feb. 1-10	3,606	48	14	1.3	.8	2	13	.01	3.8	1.2	5.0	1.5	20	4.1	3.5	.1	1.4	42	14
Feb. 11-19	4,234	46	18	1.4	1.1	2	12	.02	4.1	1.4	5.1	1.3	21	3.5	3.5	.1	1.4	44	16
Feb. 20-28	4,247	47	22	1.6	1.0	2	11	.01	3.0	1.3	4.9	1.3	20	4.0	3.4	.1	1.4	42	13
Mar. 1-10	4,575	47	30	1.9	.8	5	11	.02	3.2	1.4	4.9	1.5	19	3.8	3.5	.1	1.4	42	14
Mar. 11-20	6,893	50	41	2.2	1.2	20	10	.05	3.4	1.2	4.2	1.4	17	4.1	3.1	.1	1.1	40	13
Mar. 21-31	6,512	52	28	4.4	2.5	14	12	.05	3.6	1.4	4.5	1.4	20	4.0	2.8	.1	1.2	45	15
Apr. 1-10	5,968	57	32	6.0	2.4	14	12	.05	4.4	1.3	4.4	1.6	22	4.3	2.8	.1	.92	46	16
Apr. 11-20	5,043	62	29	5.3	2.2	11	12	.04	3.5	1.3	4.5	1.0	19	4.0	2.8	.1	1.1	42	14
Apr. 21-30	3,660	66	24	5.2	2.4	7	12	.02	4.2	1.4	4.6	1.4	21	4.4	3.0	.1	.98	44	16
May 1-10	3,537	68	35	1.8	1.8	6	12	.02	4.1	1.6	5.2	1.6	24	4.3	3.2	.1	1.1	45	17
May 11-20	2,732	70	13	3.9	1.9	6	12	.03	4.6	1.4	5.5	1.5	25	4.3	3.5	.2	.87	46	17
May 21-31	2,125	76	7	2.2	2.0	5	12	.02	4.9	1.4	5.6	1.5	26	3.7	3.6	.2	.61	45	18
June 1-10	1,421	78	6	3.2	3.1	5	12	.03	4.2	1.5	6.2	1.6	26	4.3	3.9	.1	.70	47	17
June 11-20	1,403	80	7	1.4	1.2	5	12	.01	4.2	1.4	7.1	1.7	28	4.9	4.2	.1	.81	50	16
June 21-30	1,329	79	14	1.7	1.2	5	12	.02	4.2	1.5	7.0	1.8	27	4.7	4.5	.1	1.5	52	17
July 1-10	3,908	80	81	3.2	2.1	2	10	.02	5.2	1.4	6.6	2.2	24	6.1	4.4	.2	1.6	53	19
July 11-20	7,006	80	223	5.4	2.2	13	8.8	.01	3.2	1.1	4.1	1.8	15	4.1	2.8	.2	2.3	38	13
July 21-31	4,917	80	168	5.2	2.2	6	8.5	.02	3.0	.9	3.9	1.6	14	4.1	2.5	.2	1.6	35	11
Aug. 1-10	2,782	81	113	4.3	2.9	14	9.1	.03	2.9	1.0	4.1	1.5	14	4.4	2.6	.2	1.2	37	11
Aug. 11-20	6,458	80	109	4.3	2.4	10	9.4	.04	3.0	1.0	4.4	1.4	16	3.8	2.6	.2	1.3	37	12
Aug. 21-31	2,958	81	89	4.2	2.9	14	8.8	.02	3.2	1.2	3.6	1.4	16	4.2	2.4	.2	.69	37	13
Sept. 1-10	2,466	82	63	4.0	2.8	6	9.5	.02	4.0	1.2	4.2	1.6	18	5.0	2.8	.2	.90	41	15
Sept. 11-20	2,098	79	54	3.6	2.8	7	10	.07	3.6	1.3	4.5	1.7	19	4.2	3.2	.2	.76	42	14
Sept. 21-30	1,739	76	31	3.6	2.2	7	10	.04	3.7	1.4	5.1	1.8	21	4.9	3.4	.2	.98	44	15
Average	-	-	43	3.0	1.9	9	11	.05	3.9	1.3	5.2	1.5	21	4.7	3.5	.1	1.1	44	15
Weighted average	3,704	-	54	3.3	1.9	9	11	.05	3.8	1.3	4.9	1.5	20	4.5	3.3	.1	1.2	43	15

Chattahoochee River at Columbia, Ala. (near Milton, Ga.)

(Analyses in parts per million)

Date	Mean discharge (second-feet)	Temperature (° F.)	Suspended matter	Oxygen consumed		Color	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids	Total hardness as $CaCO_3$
				Unfiltered	Filtered														
Oct. 1-10, 1940	2,705	-	33	2.4	2.0	7	11	0.03	6.6	1.4	5.3	1.3	25	6.7	4.0	0.1	0.94	51	22
Oct. 11-20	2,534	-	23	2.0	2.0	7	9.7	.05	6.8	1.4	5.5	1.3	26	6.6	4.6	.1	.87	51	23
Oct. 21-31	2,390	-	19	2.5	1.6	5	9.5	.02	6.6	1.3	5.8	1.4	27	6.6	4.8	.0	1.0	53	22
Nov. 1-10	2,741	63	21	2.3	1.4	6	10	.05	6.5	1.6	6.0	1.6	29	6.1	5.0	.0	.98	54	23
Nov. 11-20	5,035	55	70	3.4	1.8	13	9.8	.10	5.2	1.4	4.8	1.6	23	6.1	4.5	.1	.96	50	20
Nov. 21-30	4,313	60	47	2.8	1.6	7	11	.02	5.8	1.4	5.1	1.6	24	6.7	4.8	.1	.83	50	20
Dec. 1-10	4,597	51	32	2.8	1.8	6	9.5	.02	5.4	1.4	4.8	1.4	22	6.7	4.2	.1	.76	48	19
Dec. 11-20	6,656	54	46	3.1	1.7	7	11	.02	5.0	1.4	4.7	1.4	21	5.5	4.5	.1	1.0	48	18
Dec. 21-31	9,182	53	85	10	8.2	8	9.7	.03	5.0	1.3	4.8	1.2	20	5.1	4.5	.1	.05	45	18
Jan. 1-10, 1941	9,730	49	98	3.4	1.7	6	9.9	.03	4.6	1.2	4.1	1.2	17	5.4	3.8	.1	.93	40	16
Jan. 11-20	8,999	47	62	2.9	1.5	5	11	.04	4.4	1.2	4.0	1.1	18	5.3	3.6	.1	.89	41	16
Jan. 21-31	6,438	47	52	2.0	1.1	4	10	.03	5.3	1.6	4.2	1.3	21	5.6	3.6	.0	1.1	44	20
Feb. 1-10	6,468	46	70	2.6	1.1	2	8.7	.02	4.6	1.5	4.2	1.2	20	4.6	4.0	.0	1.1	43	18
Feb. 11-19	7,367	46	66	3.6	1.4	6	8.3	.05	4.8	1.2	4.4	1.2	20	5.4	3.8	.0	.94	42	17
Feb. 20-28	6,836	46	53	2.5	1.1	6	11	.07	5.2	1.1	4.7	1.1	20	5.1	4.1	.0	.83	44	18
Mar. 1-10	9,007	50	98	3.6	1.6	14	8.4	.08	4.7	1.1	4.2	1.2	19	5.9	3.9	.1	.49	41	16
Mar. 11-20	10,120	51	69	6.0	2.3	11	10	.01	4.5	1.3	3.9	1.2	18	4.9	3.5	.0	.91	43	17
Mar. 21-31	10,490	55	48	5.6	2.4	8	11	.01	5.2	1.4	4.1	1.2	21	4.4	3.4	.1	.94	44	19
Apr. 1-10	8,932	60	53	5.7	2.4	7	11	.01	5.2	1.3	4.1	1.3	21	4.7	3.2	.1	.86	44	18
Apr. 11-20	7,885	66	64	5.3	2.4	6	11	.01	5.0	1.3	4.0	1.3	21	4.3	3.4	.1	1.0	46	18
Apr. 21-30	5,380	68	59	-	-	7	12	.01	5.6	1.3	4.1	1.2	22	4.2	3.5	.0	.94	46	19
May 1-10	5,021	71	66	2.0	1.9	5	11	.01	5.6	1.4	4.5	1.6	25	4.0	3.9	.1	.93	44	20
May 11-20	3,956	71	46	1.8	1.2	3	11	.01	6.0	1.5	5.2	1.7	27	5.6	4.2	.1	.75	47	21
May 21-31	2,922	79	29	2.1	1.7	5	10	.02	6.7	1.5	5.7	1.8	30	4.7	4.8	.1	.61	50	23
June 1-10	2,192	80	24	2.4	2.0	5	12	.01	7.7	1.5	6.5	2.0	34	4.8	5.0	.2	.54	59	25
June 11-20	2,524	80	43	2.2	1.5	6	11	.01	8.1	1.5	6.3	1.8	34	5.9	5.0	.1	.60	61	26
June 21-30	2,768	80	45	2.3	1.6	4	10	.02	6.6	1.5	5.6	1.6	29	5.1	5.0	.1	1.1	56	23
July 1-10	5,678	80	179	6.6	2.4	7	10	.03	6.6	1.3	5.2	1.5	24	6.6	4.2	.2	1.7	52	22
July 11-20	9,171	82	249	6.1	2.2	8	9.1	.03	4.5	1.1	4.6	1.5	16	5.5	3.6	.2	2.2	43	16
July 21-31	7,036	82	183	5.5	2.0	3	8.9	.05	4.6	1.0	3.8	1.5	17	4.8	3.2	.1	1.7	40	16
Aug. 1-10	3,746	83	124	4.4	2.1	4	9.5	.03	5.4	1.1	4.7	1.5	21	4.6	3.8	.2	1.7	45	18
Aug. 11-20	7,577	82	150	5.2	2.8	9	9.5	.01	4.7	1.0	4.2	1.4	18	5.0	3.4	.2	1.4	42	16
Aug. 21-31	5,164	82	143	4.7	2.4	5	9.0	.01	5.0	1.3	3.5	1.4	19	4.7	3.2	.2	1.1	42	18
Sept. 1-10	3,290	82	86	3.6	2.6	8	9.6	.03	5.6	1.3	4.3	1.5	22	5.1	3.8	.2	.92	45	19
Sept. 11-20	3,075	78	88	3.5	3.4	11	10	.02	6.1	1.5	5.0	1.5	24	5.8	4.2	.2	.88	49	21
Sept. 21-30	3,174	76	90	4.2	2.5	5	9.3	.01	6.0	1.3	5.1	1.6	23	6.5	4.9	.2	1.1	50	20
Average	-	-	75	3.8	2.1	7	10	.03	5.6	1.3	4.8	1.4	23	5.4	4.1	.1	.99	47	19
Weighted average	5,700	-	84	4.2	2.2	7	10	.03	5.3	1.3	4.5	1.4	21	5.3	3.9	.1	1.0	45	19

Miscellaneous streams in Georgia

(Analyses in parts per million)

Source	Date	Discharge (second-feet)	Suspended matter	Color	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids	Total hardness as $CaCO_3$
Amicalola Creek near Dawsonville	June 10, 1941	74	12	5	7.8	0.02	2.0	0.8	1.5	1.0	10	1.6	1.0	0.1	0.10	19	8.3
Chattahoochee River near Leaf	June 10, 1941	116	11	6	10	.04	2.2	.7	1.9	1.0	11	1.9	.8	.1	.17	25	8.4
Chattahoochee River near Norcross	Aug. 22, 1941	710	73	7	9.5	.08	3.0	1.0	2.7	1.0	15	2.2	2.2	.2	.30	31	12
Chattahoochee River near Whitesburg	May 19, 1941	1,320	24	9	17	.05	4.6	1.7	5.4	1.8	15	3.4	4.8	.1	12	64	18
Chattooga River near Clayton	June 11, 1941	224	2	2	9.1	.02	1.6	.8	1.3	.8	9.0	1.7	.5	.1	.05	18	7.3
Chestatee River near Dahlonega	June 10, 1941	107	15	2	9.1	.01	2.2	.7	1.7	1.1	11	2.1	.8	.0	.14	24	8.4
Chickasawhatchee Creek at Elmodel	May 21, 1941	24	2	16	5.2	.01	31	1.2	2.8	.8	103	.7	3.5	.0	.65	100	82
Coahulla Creek near Varnell	Sept. 19, 1941	12.4	30	2	7.0	.01	34	10	1.0	1.4	154	2.4	1.1	.1	.85	128	126
Conasauga River at Tilton	Sept. 19, 1941	112	8	5	3.5	.01	22	7.0	3.9	1.7	100	3.2	5.4	.1	.30	93	84
Coosawattee River near Ellijay	May 16, 1941	205	14	7	8.1	.01	1.8	1.3	1.2	.6	11	1.9	1.4	.0	.05	26	9.8
Coosawattee River at Pine Chapel	Aug. 28, 1941	635	71	3	8.4	.02	4.5	1.6	1.4	.7	22	2.4	.9	.2	.20	31	18
Dikes Creek near Rome	May 14, 1941	3.7	7	5	6.7	.01	22	12	.9	.7	126	1.6	1.5	.0	.70	105	104
East Amicalola Creek at Juno	June 10, 1941	26	10	5	7.7	.04	1.5	.6	1.4	1.0	8.0	1.1	1.0	.0	.15	18	6.2
Etowah River near Dawsonville	Sept. 5, 1941	84	16	4	9.5	.01	2.6	1.0	1.3	1.1	13	1.6	1.0	.0	.12	24	11
Etowah River at Rome	May 14, 1941	1,020	21	12	11	.07	11	4.3	2.4	1.0	58	2.2	1.8	.0	.98	61	45
Ichawaynochaway Creek at Milford	May 21, 1941	270	7	11	7.1	.01	11	1.2	.9	.7	35	.9	2.9	.0	1.4	47	32
Little River near Adel	May 24, 1941	9.6	3	35	9.7	.03	4.0	.8	3.1	.7	11	1.9	5.9	.0	.05	43	13
Mountaintown Creek near Ellijay	May 16, 1941	36	8	5	7.2	.01	2.0	.7	1.4	.7	10	1.4	.9	.0	.0	20	7.9
Ocmulgee River near Jackson	June 19, 1941	368	16	8	14	.04	4.4	1.7	6.1	2.2	24	4.5	4.2	.7	1.9	53	18
Oostanaula River at Rome	May 14, 1941	871	28	9	7.9	.01	14	3.6	2.5	.8	63	2.4	2.2	.0	.60	63	50
Scarecorn Creek at Hinton	Aug. 29, 1941	7.6	7	6	12	.10	3.2	1.4	1.9	1.7	17	2.5	1.1	.1	.10	33	14
Soque River near Demorest	Sept. 6, 1941	77	21	6	11	.03	1.8	.9	1.5	1.0	11	1.4	1.1	.1	.20	24	8.2
South River near McDonough	June 19, 1941	154	62	6	16	.06	5.6	1.9	8.3	2.6	20	5.8	7.5	2.0	5.4	67	22
Tired Creek near Cairo	May 20, 1941	-	12	35	7.7	.02	4.5	.9	2.3	.8	15	1.0	3.6	.0	.30	36	15
Tugaloo River near Hartwell	June 23, 1941	502	4	7	11	.08	2.2	.9	2.8	1.0	14	2.1	1.4	.1	.23	29	9.2

Kissimmee River near Okeechobee, Fla. (at Harding Bridge on Florida Highway 8)

(Analyses in parts per million)

Date	Mean discharge (second-feet)	Color	Specific conductance (K x 10^5 at 25° C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids	Total hardness as $CaCO_3$
Mar. 1-10, 1940	1,454	110	9.1	1.2	0.02	6.4	2.4	8.6	1.1	14	6.6	15	0.2	0.1	80	26
Mar. 11-20	1,410	110	8.9	1.3	.02	6.2	2.3	8.6	.6	15	6.5	14	.2	.1	79	23
Mar. 21-31	1,534	110	8.4	1.3	.02	6.0	2.2	8.4	.8	15	5.8	13	.2	.1	77	24
Apr. 1-10	1,560	110	8.1	1.5	.02	6.0	2.1	8.2	.6	15	5.3	13	.2	.1	76	24
Apr. 11-20	1,545	110	8.4	1.5	.04	5.9	1.7	8.6	.6	16	6.3	12	.2	.2	72	22
Apr. 21-30	1,384	110	8.3	1.4	.03	5.9	1.9	8.1	.6	15	6.5	12	.2	.2	73	23
May 1-10	1,242	110	8.6	2.0	.02	5.8	1.4	8.9	.5	16	6.7	12	.2	.2	76	20
May 11-20	1,113	110	8.7	1.6	.02	6.4	1.4	8.5	.6	14	7.2	12	.2	.2	76	22
May 21-31	1,011	110	9.2	1.3	.02	6.1	1.7	9.2	.6	15	7.6	13	.2	.2	79	22
June 1-10	1,088	110	8.9	1.7	.02	6.3	1.3	8.8	.5	15	7.2	14	.2	.2	76	21
June 11-20	1,050	110	8.8	1.6	.02	6.3	1.4	8.6	.7	15	7.4	12	.2	.2	76	22
June 21-30	989	110	9.1	2.2	.02	6.4	2.0	8.5	.6	15	8.1	13	.2	.2	79	24
July 1-10	1,232	110	8.1	1.6	.04	5.7	1.5	8.0	.7	15	6.3	12	.2	.2	73	20
July 11-20	1,429	110	7.6	1.6	.02	5.8	1.8	7.6	.6	14	8.6	12	.2	.2	72	22
July 21-31	1,505	110	7.2	3.3	.15	5.7	1.8	7.3	.8	14	4.8	9.5	.2	.2	66	22
Aug. 1-10	1,935	110	6.2	2.4	.13	5.2	1.6	6.6	.7	11	5.2	9.0	.2	.2	60	20
Aug. 11-20	1,765	110	6.5	2.7	.13	5.4	1.8	6.5	.7	12	4.6	10	.4	.2	64	21
Aug. 21-31	1,660	110	6.8	2.6	.12	5.6	1.9	6.6	.6	12	5.4	10	.2	.2	66	22
Sept. 1-10	2,178	110	6.2	2.7	.14	5.0	1.9	6.9	.6	11	4.9	9.0	.3	.1	62	20
Sept. 11-20	2,856	110	6.6	3.2	.02	5.1	1.6	4.6	.6	13	4.7	9.0	.1	.1	62	19
Sept. 21-30	3,087	110	6.6	3.4	.02	5.1	1.2	5.5	.6	13	4.3	9.5	.1	.0	63	18
Oct. 1-10	3,284	110	6.6	3.4	.02	4.8	1.4	5.8	.6	12	3.8	10	.1	.0	63	18
Oct. 11-20	2,753	110	6.6	2.5	.02	4.7	1.2	5.9	.6	12	3.0	9.5	.1	.2	61	17
Oct. 21-31	1,991	110	7.2	4.7	.02	5.0	1.6	6.6	.6	12	4.6	12	.1	.1	66	19
Nov. 1-10	1,741	110	7.8	2.2	.02	5.2	1.4	7.1	.7	13	4.0	12	.1	.0	69	19
Nov. 11-20	1,533	110	7.8	2.2	.02	5.2	1.7	7.1	.6	13	5.6	12	.1	.0	70	20
Nov. 21-30	1,380	110	8.2	1.9	.02	5.4	1.8	6.9	.8	12	6.0	13	.1	.1	70	21
Dec. 1-10	1,255	110	8.3	2.0	.02	5.4	1.6	7.0	.8	13	5.8	13	.1	.2	70	20
Dec. 11-20	1,158	100	8.6	1.8	.03	5.4	1.5	7.6	1.0	13	5.9	13	.1	.3	72	20
Dec. 21-31	1,241	100	9.4	3.4	.07	5.8	2.1	9.0	1.1	16	6.9	16	.1	.1	75	23
Jan. 1-10, 1941	1,347	110	10.1	3.3	.07	5.6	2.1	10	1.0	16	7.1	17	.1	.1	80	23
Jan. 11-20	1,418	100	9.2	2.5	.05	5.5	2.0	9.0	1.2	15	6.3	16	.1	.4	71	22
Jan. 21-31	1,704	110	9.1	2.8	.07	5.3	1.8	9.4	1.0	15	6.3	16	.1	.1	73	21
Feb. 1-10	1,360	110	8.7	1.9	.04	5.4	1.8	8.6	1.1	15	5.1	15	.1	.2	70	21
Feb. 11-19	1,846	110	8.3	1.6	.03	5.0	1.7	8.2	1.1	13	5.5	14	.1	.2	67	19
Feb. 20-28	1,718	110	8.4	1.3	.05	5.2	1.8	8.0	1.2	14	5.4	14	.1	.2	69	20
Average	-	109	8.1	2.2	.04	5.6	1.7	7.7	.8	14	5.9	12	.2	.2	71	21
Weighted average	1,637	109	7.8	2.4	.05	5.5	1.7	7.4	.7	14	5.6	12	.2	.1	69	21

St. Lucie Canal at lock 1, at Lake Okeechobee, Fla.

(Analyses in parts per million)

Date	Mean discharge (second-feet)	Color	Specific conductance (K x 10^6 at 25° C)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids	Total hardness as $CaCO_3$
Mar. 1-10, 1940	488	45	35.2	8.7	0.03	36	9.2	25	1.8	128	27	36	0.2	0.1	227	128
Mar. 11-20	764	45	32.8	6.7	.04	35	8.4	22	1.8	121	23	34	.4	.1	211	122
Mar. 21, 24-31	1,406	45	34.1	8.2	.08	35	8.9	24	1.6	123	25	35	.2	.1	220	124
Apr. 1-10	3,554	50	36.0	11	.05	39	9.3	24	1.9	132	23	35	.2	.6	226	136
Apr. 11-20	4,007	50	35.0	9.0	.05	39	9.0	23	2.3	132	22	32	.2	.6	220	134
Apr. 21-30	3,618	45	36.0	8.6	.05	40	9.1	24	1.9	134	23	33	.2	.6	225	137
May 1-3, 5-10	3,263	45	36.3	9.0	.04	40	9.3	25	2.1	132	24	35	.2	.6	230	138
May 11-20	595	45	34.9	8.1	.08	39	9.1	23	1.7	132	23	35	.2	.6	225	135
May 21-31	62	45	36.6	7.9	.06	40	9.5	25	1.8	132	24	35	.4	.6	230	139
June 1-10	422	45	35.5	9.9	.05	38	9.1	24	1.7	128	24	35	.2	.6	227	132
June 11-20	2,206	50	33.7	9.8	.07	36	8.6	23	1.8	119	22	33	.2	.5	215	125
June 21-28, 30	2,534	45	35.9	8.6	.05	38	9.2	24	1.9	125	25	36	.4	.3	229	133
July 1-10	1,411	45	35.2	8.0	.05	38	9.0	24	1.6	125	24	35	.4	.4	224	132
July 11-13, 15-20	131	45	35.9	8.2	.10	39	9.2	24	2.1	128	26	36	.2	.5	227	135
July 21-31	293	50	35.4	8.5	.08	38	9.0	24	1.9	125	24	36	.2	.6	226	132
Aug. 1-10	402	45	35.1	14	.06	38	8.9	25	2.1	126	24	35	.2	.6	229	131
Aug. 11-20	441	45	34.4	7.6	.08	37	8.6	24	1.9	122	24	34	.4	.4	217	128
Aug. 21-31	50	50	31.7	4.9	.08	34	7.9	22	2.0	111	23	31	.1	.3	201	117
Sept. 1-10	1,523	55	36.4	7.2	.05	36	9.1	24	1.6	126	24	36	.3	.4	219	127
Sept. 11-18	3,438	70	42.5	10	.08	41	11	30	2.0	146	30	45	.4	.6	270	148
Sept. 21-30	3,502	70	46.7	12	.05	44	13	34	1.9	160	34	49	.4	.6	297	163
Oct. 1-10	3,858	45	41.3	9.6	.05	42	11	26	2.1	146	29	42	.2	.2	257	150
Oct. 11-20	3,731	40	38.2	9.1	.06	41	9.6	24	2.1	142	26	37	.3	.3	236	142
Oct. 21-31	1,865	35	37.3	8.1	.02	40	9.7	25	1.2	137	24	35	.1	.6	231	140
Nov. 1-10	1,258	35	38.8	8.0	.01	41	10	25	1.0	142	24	36	.1	.7	239	143
Nov. 11-16	275	35	38.6	9.4	.01	41	10	25	1.1	142	24	35	.1	.6	241	143
Nov. 26-30	496	35	38.2	6.2	.05	40	9.7	25	1.4	137	24	36	.2	1.0	238	140
Dec. 1-10	1,178	40	38.6	6.2	.03	40	10	25	1.0	139	26	35	.2	.9	243	141
Dec. 11-17	528	40	38.1	6.3	.02	40	10	24	1.0	136	25	35	.2	.6	232	141
Dec. 23-31	59	45	37.1	9.6	.04	41	10	24	1.0	136	25	34	.2	.8	237	143
Jan. 1-10, 1941	303	45	38.4	11	.04	40	10	25	1.0	137	25	36	.2	1.0	243	141
Jan. 11-20	233	45	37.9	11	.04	41	9.9	24	1.1	140	24	35	.2	1.2	244	143
Jan. 21-31	1,909	70	42.8	12	.12	42	12	31	1.4	144	28	44	.2	2.2	278	154
Feb. 1-10	3,157	55	42.0	8.6	.03	42	11	30	2.2	144	30	43	.2	1.0	263	150
Feb. 11-19	2,788	55	38.1	9.5	.04	39	9.4	26	2.0	135	24	38	.2	1.1	239	136
Feb. 20-28	2,718	50	44.7	11	.03	44	12	32	2.5	155	31	45	.2	2.1	202	159
Average	-	47	37.4	8.9	.05	39	9.7	25	1.7	134	25	37	.2	.7	236	137
Weighted average	1,602	50	38.5	9.3	.05	39	10	26	1.9	137	26	38	.2	.7	242	138

St. Lucie Canal at lock 1, at Lake Okeechobee, Fla. - Continued

Mar. 1-10, 1941	2,620	65	38.3	-	0.07	38	10	24	128	27	39	-	0.6	202	136
Mar. 11-20	2,476	100	37.3	-	-	38	10	26	132	26	41	-	.6	207	136
Mar. 21-31	665	90	38.5	-	-	38	11	26	136	28	40	-	.6	211	140
Apr. 1-10	652	75	37.7	-	-	36	10	28	114	23	38	-	2.0	205	131
Apr. 11-20	3,311	190	38.4	-	-	32	13	28	131	27	41	-	.6	206	133
Apr. 21-30	3,404	130	32.3	-	-	32	10	23	118	27	33	-	.7	184	121
May 1-10	3,427	50	34.0	-	-	34	9.0	23	121	21	36	-	.3	183	122
May 11-20	3,357	50	34.2	-	-	35	8.7	20	120	20	34	-	.3	177	123
May 21-31	3,025	80	34.3	-	-	35	9.2	22	126	20	35	-	.3	184	125
June 1-10	186	90	30.8	-	-	32	9.3	17	114	17	31	-	.3	163	118
June 11-20	36	60	30.8	-	-	32	9.1	18	114	20	30	-	.3	166	117
June 21-30	77	60	33.0	-	-	35	8.7	20	120	20	33	-	.3	176	123
July 1-10	410	45	32.4	-	-	35	8.5	18	115	21	32	-	.5	172	122
July 11-20	1,435	45	34.3	-	-	36	9.0	20	120	23	34	-	.6	182	127
July 21-31	3,309	60	29.2	-	-	30	7.0	19	104	18	29	-	.3	154	104
Aug. 1-10	3,631	80	28.1	-	-	29	6.9	18	99	18	28	-	.2	149	102
Aug. 11-20	3,596	60	30.8	-	-	32	8.6	17	111	19	30	-	.2	162	115
Aug. 21-31	3,495	70	27.9	-	-	29	7.6	14	98	17	26	-	.2	142	104
Sept. 1-10	3,345	65	32.2	-	-	33	9.3	17	113	21	31	-	.2	167	121
Sept. 11-20	1,470	60	32.9	-	-	33	8.6	21	117	22	32	-	.2	174	118
Sept. 21-30	3,483	70	36.9	-	-	36	10	24	127	25	38	-	.6	196	131

Miami Canal at water plant, Hialeah, Fla.

Mar. 2-10, 1941	925	90	47.4	-	0.08	84	7.1	14	1.0	266	5.4	21	0.1	1.4	326	239
Mar. 11-20	862	80	46.8	7.5	.05	84	6.5	13	1.0	264	5.4	21	.1	1.4	308	236
Mar. 21-31	960	85	46.1	6.0	.12	83	6.8	12	.9	258	5.0	21	.1	1.4	303	235
Apr. 1-10	965	85	45.7	4.6	.12	81	6.4	13	1.0	257	5.1	22	.1	1.3	300	228
Apr. 11-20	992	90	45.4	5.6	.14	80	6.3	13	.9	256	4.7	21	.1	1.1	299	226
Apr. 21-30	796	90	45.8	5.6	.18	82	6.6	13	1.0	259	4.8	21	.1	1.1	303	232
May 1-10	926	90	45.9	5.2	.20	82	6.6	12	1.0	259	4.7	21	.1	1.5	304	232
May 11-20	787	90	46.6	6.8	.27	83	6.4	12	1.0	262	4.8	21	.1	1.4	309	233
May 21-31	459	90	47.4	4.5	.22	85	6.8	12	.8	267	4.9	22	.1	1.7	314	240
June 1-10	347	90	47.8	6.3	.26	86	7.0	13	1.1	271	4.2	25	.1	2.1	317	243
June 11-20	409	90	48.3	8.3	.04	85	7.0	13	1.2	270	4.8	24	.2	1.2	316	241
June 21-30	532	85	49.5	7.8	.10	87	7.1	13	1.1	278	3.0	22	.2	1.0	324	246

Miami Canal at water plant, Hialeah, Fla. - Continued

(Analyses in parts per million)

Date	Discharge (second-feet)	Color	Specific conductance ($K \times 10^6$ at 25° C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids	Total hardness as $CaCO_3$
July 1-10, 1941	606	90	49.6	8.2	0.10	86	7.0	13	1.2	276	10	20	0.2	1.0	326	244
July 11-20	861	90	46.6	9.0	.07	82	5.9	11	1.2	254	13	18	.2	1.1	314	229
July 21-23, 25-31	853	110	45.9	7.9	.03	83	6.7	11	1.2	262	10	18	.2	1.0	315	234
Aug. 1-4, 6-10	814	110	45.8	8.1	.05	82	6.6	11	1.1	263	7.0	20	.1	.7	311	232
Aug. 11-20	767	110	45.7	8.3	.06	81	6.8	12	1.2	261	5.7	20	.2	.8	311	230
Aug. 21-31	688	110	45.2	11	.02	80	6.7	13	1.3	259	4.7	20	.2	.9	311	227
Sept. 1-10	655	110	44.3	7.1	.05	78	6.4	12	1.1	253	4.1	19	.2	1.0	302	221
Sept. 11-20	648	110	44.0	5.5	.04	78	6.5	12	1.0	258	3.9	20	.2	.9	298	221
Sept. 21-30	796	120	40.7	6.2	.13	73	6.1	10	1.6	236	4.0	16	.3	.9	282	207

North New River Canal at 26-mile Bend, near Fort Lauderdale, Fla.

Mar. 1-10	-	170	110	20	0.06	106	38	77	5.1	382	99	119	0.5	2.2	738	421
Mar. 11-20	-	180	98.5	16	.06	89	31	74	5.3	356	62	115	.5	1.3	647	350
Mar. 21-24, 28-31	-	180	100	16	.08	91	33	81	4.5	366	57	119	.3	1.1	648	362
Apr. 1-8	-	160	97.7	15	.08	86	32	79	4.5	360	48	118	.4	1.2	626	346
Apr. 9, 10	-	260	41.0	-	-	-	-	-	-	180	-	27	-	-	294	-
Apr. 11, 12	-	300	34.4	-	-	-	-	-	-	168	-	20	-	-	253	-
Apr. 14-16, 19, 20	-	240	58.7	7.8	.12	72	20	31	3.2	245	48	43	.2	1.7	420	262
Apr. 21-27, 29, 30	-	180	93.8	16	.12	94	31	70	4.5	358	68	98	.4	1.1	637	362
May 1-3, 5-9	-	170	98.6	16	.08	94	33	74	5.1	363	64	112	.4	1.5	651	370
May 11-13, 16, 17, 19, 20	-	190	92.0	17	.10	91	31	65	4.6	358	69	95	.3	1.9	619	354
May 21-31	-	180	105	18	.14	97	35	82	4.5	396	52	124	.4	1.4	682	386
June 2, 4-7, 11	-	180	125	22	.12	112	43	101	5.6	462	66	154	.5	2.0	813	456
June 17-19, 21, 23	-	180	86.1	12	.18	85	27	62	5.3	330	38	93	.4	1.6	562	323
July 3-9	-	340	55.2	9.4	.14	60	19	37	3.5	218	30	51	.1	1.3	395	228
July 10	-	360	30.2	-	-	-	-	-	-	144	-	15	-	-	272	-
July 11-20	-	320	26.4	5.6	.12	39	7.6	8.9	2.5	138	6.0	13	.2	1.2	210	128
July 21-27, 29-31	-	320	25.8	8.3	.14	38	7.5	8.8	2.2	140	5.2	12	.3	.8	205	126
Aug. 2-7	-	310	27.7	8.1	.14	39	8.4	10	2.6	145	4.9	16	.2	.7	217	132
Aug. 11, 12, 14-20	-	300	47.8	13	.16	58	15	24	4.1	228	14	38	.4	.6	344	206
Aug. 22-25, 27, 20-31	-	260	77.4	18	.28	83	26	52	5.9	326	37	76	.6	1.0	537	314
Sept. 1-10	-	220	95.7	19	.18	96	33	70	5.9	376	57	103	.6	1.4	642	375
Sept. 11-13, 16-20	-	180	102	21	.16	99	36	75	6.7	392	65	110	.6	1.5	681	395
Sept. 21-26, 28-30	-	260	72.2	14	.16	75	25	47	5.6	267	56	69	.6	2.2	498	290

Caloosahatchee Canal at Moore Haven, Fla.

Mar. 4-10	3,923	90	33.5	-	0.08	36	9.0	19	118	26	31	-	0.6	180	127
Mar. 11-20	3,773	-	32.8	-	-	38	10	17	117	29	33	-	.3	185	136
Mar. 21, 22, 27, 28	-	95	32.2	-	-	32	10	21	118	23	32	-	.2	176	121
Apr. 1-10	-	100	41.4	-	-	47	10	24	144	35	39	-	.6	226	158
Apr. 11-20	-	120	29.9	-	-	35	7.5	14	104	22	28	-	.4	158	118
Apr. 21-30	4,082	120	33.1	-	-	34	9.8	24	118	29	34	-	2.0	191	125
May 1-10	3,503	70	34.0	-	-	36	9.2	21	121	25	34	-	.3	185	128
May 11-20	-	70	33.5	-	-	35	9.2	19	114	24	33	-	.3	177	125
May 21-31	-	60	34.2	-	-	34	8.7	21	116	21	35	-	.3	177	121
June 1-10	-	50	31.6	-	-	32	8.7	19	108	20	34	-	.3	167	116
June 11-20	-	45	31.6	-	-	30	8.6	22	110	20	33	-	.2	168	110
June 21, 22, 26-30	-	50	30.5	-	-	28	8.1	21	103	17	33	-	.2	158	103
July 1-10	-	140	19.2	-	-	21	4.2	11	68	9.1	20	-	.7	100	70
July 11-20	-	200	19.3	-	-	23	3.6	11	72	13	16	-	.8	103	72
July 21-31	3,655	170	24.6	-	-	28	5.8	13	90	18	21	-	.4	130	94
Aug. 2-10	3,940	180	30.2	-	-	32	7.8	18	105	25	27	-	.4	162	112
Aug. 11-20	-	200	24.7	-	-	26	6.9	12	85	17	22	-	.4	126	93
Aug. 21-31	-	240	13.0	-	-	14	3.1	6.1	45	5.2	13	-	.4	64	48
Sept. 1-10	-	240	8.0	-	-	8.1	1.8	4.3	27	1	9.5	-	.5	38	28
Sept. 11-20	-	180	9.2	-	-	-	-	-	32	3.9	10	-	-	-	-
Sept. 21-29	3,096	110	23.3	-	-	24	6.4	9.8	81	12	20	-	.6	113	86

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Miami Canal north of dam (reference point) at Dade-Broward County line, Fla.

(Analyses in parts per million)

Date	Distance from reference point (miles)	Sampling point	Color	Specific conductance ($K \times 10^5$ at 25°C.)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na+K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Dissolved solids	Total hardness as $CaCO_3$
1941													
Feb. 19	0.1	Integrated	100	34.0	55	7.0	5.4	183	1.0	19	-	178	166
Apr. 25	.1	Surface	100	35.8	58	6.0	8.0	194	1	19	0.1	188	169
Apr. 25	.1	Bottom	100	36.0	58	6.7	8.1	196	1	20	.1	190	172
June 5	.1	Surface	-	40.2	-	-	-	223	-	23	-	-	-
June 5	.1	Bottom	-	41.8	-	-	-	239	-	23	-	-	-
July 29	.1	Surface	-	29.8	-	-	-	161	-	13	-	-	-
July 29	.1	Bottom	-	30.4	-	-	-	166	-	13	-	-	-
Aug. 28	.1	Surface	-	32.7	-	-	-	177	-	18	-	-	-
Aug. 28	.1	Bottom	-	33.2	-	-	-	180	-	18		-	-
Feb. 19	3	Integrated	100	34.3	58	6.4	4.7	188	.4	19	-	181	171
Feb. 19	[a]5.6	Integrated	100	34.6	56	6.2	6.7	185	1.4	19	-	180	165
Apr. 25	[a]5.6	Surface	95	35.8	58	6.2	9.4	197	1	20	.1	192	170
Apr. 25	[a]5.6	Bottom	105	35.6	59	6.6	7.1	194	1	21	.2	190	174
June 5	[a]5.6	Surface	-	40.6	-	-	-	228	-	23	-	-	-
June 5	[a]5.6	Bottom	-	43.4	-	-	-	243	-	23	-	-	-
July 29	[a]5.6	Surface	-	30.4	-	-	-	166	-	14	-	-	-
July 29	[a]5.6	Bottom	-	30.1	-	-	-	172	-	14	-	-	-
Aug. 28	[a]5.6	Surface	-	31.4	-	-	-	166	-	17	-	-	-
Aug. 28	[a]5.6	Bottom	-	34.5	-	-	-	187	-	20	-	-	-
Feb. 19	[b]10.1	Integrated	100	29.8	48	5.8	5.4	160	.2	17	-	155	144
Apr. 25	[b]10.1	Surface	110	34.8	58	6.6	6.1	192	1	19	.1	185	172
Apr. 25	[b]10.1	Bottom	100	35.5	59	6.1	7.4	196	1	19	.1	189	172
June 5	[b]10.1	Surface	-	39.5	-	-	-	218	-	23	-	-	-
June 5	[b]10.1	Bottom	-	45.6	-	-	-	236	-	25	-	-	-
July 29	[b]10.1	Surface	-	25.7	-	-	-	142	-	10	-	-	-
July 29	[b]10.1	Bottom	-	25.9	-	-	-	143	-	10	-	-	-
Aug. 28	[b]10.1	Surface	-	28.1	-	-	-	153	-	14	-	-	-
Aug. 28	[b]10.1	Bottom	-	29.3	-	-	-	159	-	14	-	-	-
Feb. 19	[c]10	-	90	46.3	82	7.1	11	277	.6	21	-	258	234
Feb. 19	[d]10.3	Surface	100	20.0	27	4.1	7.3	91	.6	18	-	102	84
Apr. 26	[d]10.3	Surface	110	23.0	32	5.8	6.8	114	1	17	.05	119	104
June 5	[d]10.3	Surface	-	39.6	-	-	-	204	-	26	-	-	-
July 29	[d]10.3	Surface	-	23.4	-	-	-	120	-	12	-	-	-
Aug. 28	[d]10.3	Surface	-	26.6	-	-	-	131	-	19	-	-	-

[a]At U. S. Engineer Department gage 15.
[b]At junction with South New River Canal.
[c]Surface water from Everglades behind spoil bank at junction of Miami and South New River Canals.
[d]At head of excavated section of canal. Water flowing from Everglades into canal.

South New River Canal west of bridge (reference point) on Florida Highway 26

(Analyses in parts per million)

Date	Distance from reference point (miles)	Sampling point	Color	Specific conductance ($K \times 10^5$ at 25°C.)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na+K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Dissolved solids	Total hardness as $CaCO_3$
1941													
Feb. 19	0	Integrated	110	34.2	60	6.1	2.9	197	1.2	13	-	180	175
Apr. 25	0	Surface	110	36.1	59	7.1	7.9	209	1	15	0.1	193	176
Apr. 25	0	Bottom	110	35.7	61	6.8	5.4	207	1	15	.2	191	180
June 5	0	Surface	-	41.3	-	-	-	238	-	19	-	-	-
June 5	0	Bottom	-	40.3	-	-	-	219	-	19	-	-	-
July 29	0	Surface	-	29.4	-	-	-	160	-	10	-	-	-
July 29	0	Bottom	-	29.1	-	-	-	158	-	9	-	-	-
Aug. 28	0	Surface	-	30.9	-	-	-	168	-	13	-	-	-
Aug. 28	0	Bottom	-	32.2	-	-	-	178	-	13	-	-	-
Apr. 25	[a]2	Surface	110	36.6	60	6.6	10	214	1	16	.1	199	177
Aug. 28	[a]2	Surface	-	29.5	-	-	-	165	-	12	-	-	-
Feb. 19	5	Integrated	110	34.2	59	10	5	196	1.0	16	-	188	188

[a]Sample collected from inflow from Everglades on north bank.

North New River Canal from South Bay (reference point) to Florida Highway 149, near Fort Lauderdale, Fla.

(Analyses in parts per million)

February 13, 1941

Distance from reference point (miles)	Color	Specific conductance ($K \times 10^6$ at 25°C.)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na+K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Dissolved solids	Total hardness as $CaCO_3$
0	110	-	119	52	108	446	168	146	-	813	511
4	190	-	184	65	52	466	310	95	-	936	726
18	260	-	105	34	22	268	139	61	-	493	402
23	260	-	104	34	16	264	131	50	-	473	399
27	250	-	100	34	18	268	116	63	-	463	389
32	250	-	84	14	67	276	92	64	-	457	267
35	250	-	75	25	4.2	224	35	57		307	290
41	220	-	77	25	12	232	51	55	-	334	295
49	220	-	82	24	20	224	81	56	-	373	303
54	210	-	88	24	20	240	80	58	-	368	318
56	200	-	74	21	19	208	67	51	-	334	271

March 10, 1941

0	75	79.4	64	25	66	244	70	93	1.6	440	263
[a]4	220	140	174	63	48	468	274	88	5.0	882	693
10	240	92.0	104	36	43	312	130	77	1.6	545	408
15	220	92.7	95	34	55	304	110	93	1.0	528	377
20	260	84.8	82	31	51	286	70	94	4.0	473	332
25	260	79.9	76	28	47	288	51	86	3.0	435	310
30	240	79.4	75	28	58	292	55	92	2.0	454	302
35	220	85.8	79	30	62	310	70	100	1.4	501	321
41	160	90.4	87	30	59	332	49	105	.6	495	343
49	150	84.3	86	27	57	324	46	96	1.2	473	326
52	180	88.0	91	29	55	334	56	94	1.2	491	346
56	170	75.8	81	25	48	296	49	82	1.2	432	305

August 1, 1941

7	280	29.3	46	8.3	2.9	170	2.9	9	.2	153	149
16	440	32.6	40	12	2.6	188	6.2	10	.2	172	169
26	440	30.4	42	11	3.6	166	4.5	12	.2	155	150
35	360	27.0	38	8.7	4.3	150	1.2	11	.2	137	131
46	280	33.8	54	8.7	4.6	190	8.2	11	1.0	181	171
54	360	27.7	42	8.5	.9	148	3.3	12	.2	142	140

[a]Composition affected by discharge from drainage pumps.

West Palm Beach Canal from Canal Point (reference point) to West Palm Beach, Fla.

(Analyses in parts per million)

March 14, 1941

Distance from reference point (miles)	Color	Specific conductance ($K \times 10^5$ at 25°C.)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na+K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Dissolved solids	Total hardness as $CaCO_3$
0	80	42.1	42	13	27	141	37	45	-	234	158
5	180	102	62	28	115	292	62	153	-	564	270
10	190	89.0	66	27	80	236	84	119	-	492	276
15	220	87.8	62	26	83	248	62	123	-	478	262
20	260	74.7	54	21	70	224	43	103	-	401	221
25	200	66.6	52	17	60	196	43	89	-	358	200
30	280	92.4	68	27	90	274	78	121	-	519	281
35	260	81.4	52	21	88	234	45	119	-	440	216
40	230	72.5	54	20	64	216	39	98	-	381	217
42	220	75.0	54	19	75	224	42	105	-	405	213

Canals in Broward, Dade, and Palm Beach Counties, Fla.

(Analyses in parts per million)

Cypress Creek Canal at Pompano

Date	Color	Specific conductance (K x 10^5 at 25°C.)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na+K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Dissolved solids	Total hardness as $CaCO_3$
1941											
Mar. 26	70	50.4	92	6.1	14	254	35	29	0.4	302	255
Apr. 22	70	44.2	84	3.5	8.8	238	16	22	.5	252	224
May 21	50	44.1	83	3.5	10	242	13	21	2.5	252	222
July 3	100	52.6	102	3.9	7.4	257	33	29	.5	303	271
Aug. 22	120	50.1	93	4.6	11	264	23	25	.4	287	251
Sept. 26	240	28.2	40	3.1	20	147	13	15	0	164	113

Hillsboro Canal near Deerfield Beach

1941											
Mar. 19	140	67.5	53	17	65	213	28	98	2.0	368	202
Apr. 23	100	61.7	52	13	85	196	21	97	.5	365	135
May 21	200	84.0	58	18	96	256	21	139	.5	459	219
July 3	220	60.0	52	12	58	210	14	83	1.0	323	179
Aug. 22	240	34.4	32	9.2	26	131	6.6	42	.8	181	118
Sept. 19	-	36.3	29	8.1	35	130	6.6	48	1.1	192	106

North New River Canal near Fort Lauderdale

1941											
Mar. 19	150	78.7	82	27	56	323	37	94	2.0	457	316
Apr. 22	220	63.3	78	20	35	282	39	56	2.0	369	277
May 21	220	92.8	94	33	64	372	60	101	.8	536	370
July 3	320	42.9	52	13	19	182	16	41	.5	231	183
Aug. 22	320	48.4	61	15	23	236	11	42	.8	269	214
Sept. 26	280	50.0	55	16	34	237	30	37	.4	289	203

South New River Canal near Davie

1941											
Mar. 26	70	50.1	90	8.5	8.3	278	13	24	3.0	284	260
Apr. 22	70	29.5	59	6.6	2.7	176	7.4	16	7.0	185	174
May 21	65	47.4	82	9.2	8.5	262	14	22	.8	266	242
July 3	110	35.3	54	5.7	15	194	12	13	1.4	197	158

Tamiami Canal near Coral Gables

1941											
Mar. 25	70	42.5	78	4.6	11	246	9.9	18	1.0	244	214
Apr. 21	60	40.8	77	6.3	5.8	238	7.0	19	2.0	234	218
May 26	-	41.8	-	-	-	240	-	19	-	-	-
July 15	70	41.4	76	5.7	4.3	238	7.4	14	0	225	213
Aug. 25	60	42.3	86	5.0	7.0	256	18	15	.8	258	235
Sept. 24	90	40.8	73	4.1	8.2	232	2.9	16	1.5	220	199

Tamiami Canal at Krome Avenue, 10 miles west of Miami

1941											
Mar. 25	90	27.3	48	5.0	6.0	149	4.9	18	1.0	156	140
Apr. 29	80	28.2	48	4.8	15	150	23	18	.5	183	140
May 27	70	34.0	57	7.2	8.6	181	9.1	23	.5	195	172
July 15	70	24.4	38	3.1	11	126	4.7	14	3.1	136	108
Aug. 25	160	30.0	48	4.8	7.7	156	1	19	.8	158	140
Sept. 24	70	26.2	42	3.5	7.8	134	3.3	16	.4	139	119

West Palm Beach Canal at West Palm Beach

1941											
Apr. 2	140	89.1	67	25	90	259	69	127	4.0	510	270
Apr. 23	170	75.8	60	20	76	230	53	107	2.0	431	232
May 21	190	87.2	65	25	84	258	56	125	2.0	484	265
July 17	220	17.4	20	2.5	13	73	6.2	16	0	94	60
Aug. 21	280	41.3	40	11	30	144	20	50	.4	222	145
Sept. 19	280	42.6	36	9.4	36	137	16	54	3.1	222	128

Tidal canals in and near Miami, Fla.[a]

Snake Creek Canal at U. S. Highway 1

Date	Specific conductance (K x 10^6 at 25°C.)	Chloride (Cl, ppm)	Date	Specific conductance (K x 10^6 at 25°C.)	Chloride (Cl, ppm)	Date	Specific conductance (K x 10^6 at 25°C.)	Chloride (Cl, ppm)
1941			1941			1941		
Mar. 1	3,250	11,370	May 1	3,340	11,670	July 3	4,890	17,650
Mar. 14	303	780	May 20	3,320	11,470	July 17	112	205
Apr. 3	2,980	10,350	June 4	4,830	17,560	July 30	3,960	14,140
Apr. 18	99.4	165	June 17	5,140	18,890	Aug. 18	3,760	13,320
						Sept. 3	4,360	15,250

Snake Creek Canal at Miami Drive

1941			1941			1941		
Mar. 1	62.0	45	May 1	55.8	31	July 3	61.6	61
Mar. 14	59.3	37	May 20	57.8	36	July 17	52.8	33
Apr. 3	55.2	37	June 4	53.4	37	July 30	56.8	35
Apr. 18	55.9	42	June 17	262	660	Aug. 18	55.0	34
						Sept. 3	54.1	33

Snake Creek Canal at Miami Gardens Drive

1941			1941			1941		
Mar. 1	59.8	36	May 1	54.2	30	July 3	51.7	23
Mar. 14	58.3	33	May 20	55.4	31	July 17	49.8	21
Apr. 3	57.0	37	June 4	53.8	29	July 30	56.1	29
Apr. 18	55.6	35	June 17	52.6	27	Aug. 18	55.4	29
						Sept. 3	64.4	31

Snake Creek Canal at Florida Highway 149

1941			1941			1941		
Mar. 1	49.7	16	May 1	50.0	20	July 3	44.9	20
Mar. 14	50.2	17	May 20	45.1	20	July 17	43.5	13
Apr. 3	49.3	18	June 4	42.0	20	July 30	45.6	18
Apr. 18	47.3	19	July 17	41.4	21	Aug. 18	45.2	17
						Sept. 3	43.5	20

Biscayne Canal at Biscayne Boulevard

1940			1940-41			1941		
Mar. 16	4,240	15,780	Oct. 3	3,850	13,560	Apr. 3	122	233
Apr. 3	3,140	11,760	Oct. 18	3,900	14,040	Apr. 18	2,770	9,520
Apr. 14	905	2,750	Nov. 1	3,910	13,900	May 1	4,610	16,740
May 3	4,310	17,410	Nov. 15	4,350	15,640	May 20	4,330	15,540
May 16	4,430	16,360	Dec. 3	4,560	16,600	June 4	3,400	11,910
June 5	1,810	6,080	Dec. 17	3,470	12,150	June 17	5,080	18,700
June 17	2,670	9,320	Jan. 18	3,220	11,320	July 3	856	2,550
July 1	3,980	14,960	Jan. 31	4,720	17,600	July 17	74.8	95
July 18	496	1,390	Feb. 19	4,160	15,010	July 30	3,960	14,140
Aug. 1	2,490	8,640	Mar. 1	4,550	16,690	Aug. 18	3,760	13,370
Aug. 16	3,910	14,480	Mar. 14	687	2,025	Sept. 3	3,140	10,740
Sept. 4	4,190	15,680						
Sept. 18	3,570	12,680						

Biscayne Canal at NE. Sixth Avenue

1940			1940-41			1941		
Mar. 16	2,830	10,010	Oct. 3	66.2	63	Apr. 3	3,180	11,080
Apr. 3	64.0	51	Oct. 18	66.2	64	Apr. 18	72.8	92
Apr. 14	3,320	11,860	Nov. 1	63.9	63	May 1	3,930	14,040
May 3	4,310	16,450	Nov. 15	63.6	59	May 20	2,910	10,010
May 16	4,710	17,750	Dec. 3	3,180	10,980	June 4	3,560	12,490
June 5	145	290	Dec. 17	119	215	June 17	4,690	17,080
June 17	78.6	97	Jan. 18	79.4	71	July 3	147	315
July 1	2,120	7,260	Jan. 31	2,442	8,540	July 17	66.2	67
July 18	1,960	6,520	Feb. 19	63.0	54	July 30	3,090	10,790
Aug. 1	3,760	13,990	Mar. 1	3,210	11,320	Aug. 18	2,540	8,730
Aug. 16	100	165	Mar. 14	3,410	12,250	Sept. 3	2,190	7,260
Sept. 4	3,590	13,120						
Sept. 18	67.7	70						

Biscayne Canal at West Dixie Highway

1940			1940-41			1941		
Mar. 16	63.6	56	Oct. 3	65.7	62	Apr. 3	3,880	13,750
Apr. 3	62.2	47	Oct. 18	60.4	49	Apr. 18	58.6	50
Apr. 14	60.4	46	Nov. 1	59.8	52	May 1	3,120	10,980
May 3	2,980	10,740	Nov. 15	60.4	52	May 20	60.1	56
May 16	3,590	12,930	Dec. 3	76.4	92	June 4	1,210	3,750
June 5	174	378	Dec. 17	68.1	69	June 17	3,920	13,850
June 17	67.3	65	Jan. 18	59.7	48	July 3	67.9	83
July 1	64.9	60	Jan. 31	301	780	July 17	56.0	40
July 18	64.2	62	Feb. 19	58.0	43	July 30	55.6	36
Aug. 1	220	520	Mar. 1	57.6	37	Aug. 18	54.1	35
Aug. 16	67.2	71	Mar. 14	58.4	40	Sept. 3	52.5	31
Sept. 4	1,540	5,140						
Sept. 18	62.6	57						

[a] The values reported are the higher values obtained for surface and bottom samples collected on each sampling date. The higher concentrations were usually observed in the bottom samples.

Tidal canals in and near Miami, Fla. - Continued[a]

Biscayne Canal at NW. Seventh Avenue

Date	Specific conductance (K x 10^5 at 25°C.)	Chloride (Cl, ppm)	Date	Specific conductance (K x 10^5 at 25°C.)	Chloride (Cl, ppm)	Date	Specific conductance (K x 10^5 at 25°C.)	Chloride (Cl, ppm)
1940			1940-41			1941		
Mar. 16	52.2	27	Oct. 3	54.4	27	Apr. 3	45.9	22
Apr. 3	52.6	25	Oct. 18	49.1	20	Apr. 18	49.1	22
Apr. 14	52.2	25	Nov. 1	48.7	23	May 1	45.6	23
May 3	51.5	25	Nov. 15	48.9	22	May 20	47.1	19
May 16	1,050	3,280	Dec. 3	51.5	25	June 4	46.7	21
June 5	51.6	24	Dec. 17	50.8	24	June 17	52.0	30
June 17	51.6	23	Jan. 18	49.6	21	July 3	45.5	19
July 1	50.8	24	Jan. 31	48.5	23	July 17	48.0	17
July 18	48.8	23	Feb. 19	49.6	20	July 30	47.7	19
Aug. 1	48.4	22	Mar. 1	49.0	19	Aug. 18	46.2	17
Aug. 16	49.1	19	Mar. 14	48.9	18	Sept. 3	44.0	20
Sept. 4	53.4	26						
Sept. 18	51.3	24						

Biscayne Canal at NW. Twenty-seventh Avenue

1940			1940-41			1941		
Mar. 16	53.5	24	Oct. 3	45.5	13	Apr. 3	47.1	19
Apr. 3	53.5	23	Oct. 18	48.8	18	Apr. 18	47.8	19
Apr. 14	53.5	23	Nov. 1	44.3	17	May 1	56.6	20
May 3	52.4	22	Nov. 15	48.8	20	May 20	50.8	19
May 16	33.0	17	Dec. 3	52.0	21	June 4	49.8	19
June 5	52.6	22	Dec. 17	52.2	19	June 17	50.6	19
June 17	52.7	24	Jan. 18	50.6	18	July 3	46.8	19
July 1	53.6	23	Jan. 31	49.5	19	July 17	47.3	16
July 18	49.9	21	Feb. 19	50.7	18	July 30	48.6	19
Aug. 1	50.8	20	Mar. 1	50.6	18	Aug. 18	49.3	17
Aug. 16	53.6	21	Mar. 14	51.2	17	Sept. 3	43.7	18
Sept. 4	51.4	20						
Sept. 18	47.2	18						

Biscayne Canal at Le Jeune Road

1940			1940-41			1941		
Mar. 16	55.0	26	Oct. 3	45.8	15	Apr. 3	50.2	19
Apr. 3	55.0	25	Oct. 18	49.5	19	Apr. 18	52.0	19
Apr. 14	55.2	25	Nov. 1	44.4	19	May 1	51.6	20
May 3	54.3	24	Nov. 15	48.4	20	May 20	52.3	19
May 16	52.7	21	Dec. 3	51.0	21	June 4	50.9	19
June 5	52.9	23	Dec. 17	53.0	21	June 17	52.6	19
June 17	54.2	24	Jan. 18	52.4	19	July 3	49.0	19
July 1	54.6	24	Jan. 31	50.0	21	July 17	46.8	17
July 18	52.0	22	Feb. 19	51.4	18	July 30	49.2	18
Aug. 1	52.6	22	Mar. 1	51.8	18	Aug. 18	48.3	17
Aug. 16	53.8	21	Mar. 14	53.2	18	Sept. 3	45.9	18
Sept. 4	52.4	22						
Sept. 18	47.4	18						

Biscayne Canal at Red Road[b]

1940			1940-41			1941		
Mar. 16	50.8	16	Oct. 3	41.5	10	Apr. 3	47.0	16
Apr. 3	52.8	15	Oct. 18	50.2	19	Apr. 18	44.4	15
Apr. 14	50.4	16	Nov. 1	43.5	17	May 1	46.2	16
May 3	49.4	15	Nov. 15	46.5	18	May 20	46.2	16
May 16	47.7	15	Dec. 3	48.6	17	June 4	43.9	16
June 5	50.8	18	Dec. 17	49.9	17	June 17	48.1	15
June 17	49.5	17	Jan. 18	49.9	15	July 3	43.7	16
July 1	51.6	16	Jan. 31	49.7	16	July 17	39.4	12
July 18	45.2	15	Feb. 19	47.1	17	July 30	46.8	16
Aug. 1	48.3	15	Mar. 1	48.9	17	Aug. 18	45.8	16
Aug. 16	49.1	13	Mar. 14	49.7	16	Sept. 3	44.3	17
Sept. 4	46.4	14						
Sept. 18	40.5	12						

Little River Canal at Biscayne Boulevard

1940			1940-41			1941		
Apr. 3	3,990	14,910	Oct. 3	3,200	11,280	Apr. 3	4,110	14,620
Apr. 14	3,970	13,990	Oct. 18	4,380	15,970	Apr. 18	3,980	13,940
May 3	4,860	13,230	Nov. 1	2,270	7,560	May 1	4,750	17,270
May 16	5,040	18,890	Nov. 15	4,420	15,830	May 20	4,380	15,780
June 5	3,930	14,320	Dec. 3	3,770	13,320	June 4	4,550	16,400
June 17	3,870	14,720	Dec. 17	4,230	15,250	June 17	5,080	18,660
July 1	3,890	14,720	Jan. 18	4,320	15,640	July 3	4,560	16,400
July 18	4,200	15,640	Jan. 31	4,480	16,500	July 16	1,220	3,820
Aug. 1	4,610	17,170	Feb. 19	3,810	13,510	July 30	4,300	15,490
Aug. 16	4,050	14,670	Mar. 1	4,000	14,860	Aug. 18	4,460	16,210
Sept. 4	4,060	15,100	Mar. 14	3,920	14,380	Sept. 3	4,150	14,670
Sept. 18	3,550	12,540						

[a] The values reported are the higher values obtained for surface and bottom samples collected on each sampling date. The higher concentrations were usually observed in the bottom samples.

[b] No bridge at this station. Surface samples collected from bank.

Tidal canals in and near Miami, Fla. - Continued[a]

Little River Canal at NE. Second Avenue

Date	Specific conductance (K x 10^6 at 25°C.)	Chloride (Cl, ppm)	Date	Specific conductance (K x 10^6 at 25°C.)	Chloride (Cl, ppm)	Date	Specific conductance (K x 10^6 at 25°C.)	Chloride (Cl, ppm)
1940			1940-41			1941		
Apr. 3	59.2	45	Oct. 3	61.1	52	Apr. 3	1,880	6,170
Apr. 14	3,180	11,320	Oct. 18	2,180	7,410	Apr. 18	2,320	7,750
May 3	4,100	15,010	Nov. 1	56.4	42	May 1	3,700	13,120
May 16	4,450	17,170	Nov. 15	56.4	46	May 20	3,060	10,590
June 5	86.0	125	Dec. 3	772	2,310	June 4	3,700	12,930
June 17	63.6	59	Dec. 17	2,930	10,200	June 17	4,310	15,640
July 1	1,580	5,360	Jan. 18	2,890	9,910	July 3	2,650	9,030
July 18	2,530	8,930	Jan. 31	3,610	13,270	July 16	52.2	33
Aug. 1	3,690	13,370	Feb. 19	599	1,730	July 30	2,950	9,270
Aug. 16	88.2	125	Mar. 1	2,210	7,560	Aug. 18	1,810	5,930
Sept. 4	2,240	7,700	Mar. 14	2,550	9,320	Sept. 3	2,890	9,910
Sept. 18	59.6	52						

Little River Canal at NW. Seventh Avenue

1940			1940-41			1941		
Apr. 3	56.6	37	Oct. 3	65.6	68	Apr. 3	133	267
Apr. 14	288	750	Oct. 18	61.8	55	Apr. 18	49.7	28
May 3	3,110	10,930	Nov. 1	54.5	38	May 1	3,180	11,180
May 16	3,290	11,910	Nov. 15	53.2	37	May 20	1,840	6,030
June 5	75.1	96	Dec. 3	53.9	32	June 4	2,940	10,150
June 17	57.9	46	Dec. 17	132	261	June 17	3,720	13,170
July 1	58.7	50	Jan. 18	64.6	37	July 3	84.8	130
July 18	579	1,680	Jan. 31	2,550	9,030	July 16	49.6	25
Aug. 1	1,880	6,420	Feb. 19	51.8	27	July 30	112	208
Aug. 16	78.1	101	Mar. 1	54.4	29	Aug. 18	48.5	28
Sept. 4	423	1,130	Mar. 14	54.7	31	Sept. 3	220	558
Sept. 18	56.3	43						

Little River Canal at NW. Ninety-fifth Street

1940			1940-41			1941		
Apr. 3	56.3	34	Oct. 3	55.6	41	Apr. 3	47.3	24
Apr. 14	54.8	34	Oct. 18	54.2	37	Apr. 18	52.2	25
May 3	2,590	8,880	Nov. 1	51.6	30	May 1	704	2,080
May 16	2,610	9,080	Nov. 15	51.5	31	May 20	453	1,260
June 5	80.3	109	Dec. 3	52.2	29	June 4	1,190	3,620
June 17	56.6	39	Dec. 17	52.0	24	June 17	2,640	9,030
July 1	57.6	46	Jan. 18	51.4	24	July 3	413	1,120
July 18	56.2	42	Jan. 31	297	770	July 16	48.6	22
Aug. 1	1,110	3,500	Feb. 19	50.8	23	July 30	51.7	29
Aug. 16	59.8	48	Mar. 1	51.8	26	Aug. 18	48.6	23
Sept. 4	54.0	32	Mar. 14	52.0	25	Sept. 3	38.5	21
Sept. 18	56.0	42						

Little River Canal at NW. Twenty-seventh Avenue

1940			1940-41			1941		
Aug. 1	49.0	21	Dec. 3	49.1	19	May 1	44.2	19
Aug. 16	49.8	17	Dec. 17	50.9	18	May 20	45.4	17
Sept. 4	49.9	21	Jan. 18	49.6	17	June 4	44.9	17
Sept. 18	47.7	21	Jan. 31	47.8	21	June 17	45.4	20
Oct. 3	45.6	19	Feb. 19	48.2	16	July 3	46.5	16
Oct. 18	48.1	18	Mar. 1	48.9	17	July 16	43.9	15
Nov. 1	47.0	19	Mar. 14	50.2	17	July 30	47.0	17
Nov. 15	47.0	18	Apr. 3	48.3	17	Aug. 18	35.7	17
						Sept. 3	41.2	16

Little River Canal at Le Jeune Road

1940			1940-41			1941		
Apr. 3	52.4	19	Oct. 3	45.0	13	Apr. 3	47.6	17
Apr. 14	52.3	19	Oct. 18	48.6	18	Apr. 18	46.1	17
May 3	52.1	18	Nov. 1	47.3	17	May 1	46.2	18
May 16	51.2	18	Nov. 15	49.4	18	May 20	46.8	17
June 5	49.1	18	Dec. 3	50.2	17	June 4	44.2	18
June 17	50.4	18	Dec. 17	51.6	17	June 17	50.8	19
July 1	50.9	19	Jan. 18	50.2	17	July 3	45.4	17
July 18	50.6	18	Jan. 31	49.3	17	July 16	47.0	16
Aug. 1	50.4	18	Feb. 19	49.3	18	July 30	47.7	16
Aug. 16	50.4	18	Mar. 1	50.7	18	Aug. 18	38.8	17
Sept. 4	50.7	18	Mar. 14	51.4	17	Sept. 3	44.8	16
Sept. 18	47.4	16						

[a] The values reported are the higher values obtained for surface and bottom samples collected on each sampling date. The higher concentrations were usually observed in the bottom samples.

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Tidal canals in and near Miami, Fla. - Continued[a]

Little River Canal at Red Road

Date	Specific conductance (K x 10^6 at 25°C.)	Chloride (Cl, ppm)	Date	Specific conductance (K x 10^6 at 25°C.)	Chloride (Cl, ppm)	Date	Specific conductance (K x 10^6 at 25°C.)	Chloride (Cl, ppm)
1940			1940-41			1941		
Apr. 3	55.4	20	Oct. 3	48.6	15	Apr. 3	45.6	17
Apr. 14	55.7	21	Oct. 18	48.9	18	Apr. 18	55.8	19
May 3	57.9	19	Nov. 1	51.4	17	May 1	52.0	18
May 16	56.2	19	Nov. 15	49.7	17	May 20	53.4	17
June 5	49.3	16	Dec. 3	50.6	18	June 4	51.8	18
June 17	52.4	18	Dec. 17	54.4	19	June 17	53.9	17
July 1	51.0	21	Jan. 18	49.4	19	July 3	43.1	17
July 18	54.8	20	Jan. 31	51.7	18	July 16	61.2	15
Aug. 1	55.2	20	Feb. 19	49.6	18	July 30	62.4	19
Aug. 16	52.5	19	Mar. 1	50.4	19	Aug. 18	34.9	15
Sept. 4	55.2	18	Mar. 14	51.6	18	Sept. 3	34.5	16
Sept.18	50.8	15						

Tamiami Canal at NW. South River Drive

1940			1940-41			1941		
Mar. 8	108	205	Oct. 3	50.1	33	Apr. 3	46.7	25
Apr. 3	77.0	95	Oct. 18	48.2	31	Apr. 18	47.5	28
Apr. 14	180	395	Nov. 1	47.6	29	May 1	43.1	20
May 3	427	1,175	Nov. 15	43.3	20	May 20	62.8	69
May 16	812	2,475	Dec. 3	47.8	32	June 4	502	1,420
June 5	78.6	111	Dec. 17	45.8	25	June 17	252	650
June 17	72.2	90	Jan. 18	45.7	21	July 2	66.6	90
July 1	71.4	88	Jan. 31	44.8	23	July 16	45.3	29
July 18	70.2	89	Feb. 19	46.3	26	July 30	47.5	27
Aug. 1	53.6	39	Mar. 1	44.4	21	Aug. 18	35.4	19
Aug. 16	54.0	39	Mar. 14	49.1	27	Sept. 3	41.3	23
Sept. 4	98.9	161						
Sept.18	50.0	29						

Tamiami Canal at NW. Thirty-seventh Avenue[b]

1940			1940-41			1941		
Mar. 8	66.4	75	Oct. 3	48.3	23	Apr. 3	43.7	23
Apr. 3	50.5	27	Oct. 18	46.9	25	Apr. 18	43.7	23
Apr. 14	51.8	29	Nov. 1	47.5	28	May 1	42.4	19
May 3	61.7	61	Nov. 15	41.6	17	May 20	43.4	23
May 16	286	730	Dec. 3	44.5	21	June 4	173	395
June 5	62.8	61	Dec. 17	45.6	21	June 17	229	570
June 17	95.4	157	Jan. 18	44.3	18	July 2	72.8	101
July 1	73.8	91	Jan. 31	43.6	21	July 16	41.4	23
July 18	62.6	67	Feb. 19	43.9	20	July 30	43.2	24
Aug. 1	50.9	33	Mar. 1	43.9	20	Aug. 18	35.4	20
Aug. 16	50.2	27	Mar. 14	46.4	21	Sept. 3	39.4	22
Sept. 4	57.4	45						
Sept.18	46.9	22						

Tamiami Canal at Le Jeune Road

1940			1940-41			1941		
Apr. 3	50.3	26	Oct. 3	46.6	19	Apr. 3	40.7	20
Apr. 14	50.6	26	Oct. 18	45.3	20	Apr. 18	44.4	20
May 3	56.3	43	Nov. 1	45.7	22	May 1	44.2	19
May 16	203	478	Nov. 15	40.2	17	May 20	41.3	21
June 5	111	205	Dec. 3	45.0	21	June 4	136	285
June 17	107	191	Dec. 17	45.2	21	June 17	137	300
July 1	80.7	111	Jan. 18	44.0	18	July 2	50.2	42
July 18	59.0	61	Jan. 31	42.2	18	July 15	44.6	21
Aug. 1	53.2	34	Feb. 19	43.3	18	July 30	42.1	22
Aug. 16	49.7	26	Mar. 1	44.3	20	Aug. 18	34.8	20
Sept. 4	51.4	30	Mar. 14	45.7	21	Sept. 3	40.2	18
Sept.18	45.3	18						

Tamiami Canal at Red Road

1940			1940-41			1941		
Apr. 3	47.3	19	Oct. 3	44.0	13	Apr. 3	39.0	18
Apr. 14	47.6	20	Oct. 18	42.9	17	Apr. 18	42.4	20
May 3	46.6	18	Nov. 1	41.8	16	May 1	43.4	19
May 16	46.3	19	Nov. 15	41.0	16	May 20	40.0	18
June 5	48.7	19	Dec. 3	43.3	17	June 4	40.6	18
June 17	47.3	18	Dec. 17	43.2	17	June 17	37.9	19
July 1	47.7	18	Jan. 18	43.0	19	July 2	39.3	17
July 18	43.0	17	Jan. 31	41.2	17	July 15	38.6	15
Aug. 1	47.3	19	Feb. 19	41.5	18	July 30	38.6	15
Aug. 16	45.6	16	Mar. 1	42.8	19	Aug. 18	39.0	16
Sept. 4	46.5	17	Mar. 14	43.6	17	Sept. 3	38.0	17
Sept.18	44.4	16						

[a] The values reported are the higher values obtained for surface and bottom samples collected on each sampling date. The higher concentrations were usually observed in the bottom samples.
[b] No bridge at this station. Surface samples collected from bank.

Tidal canals in and near Miami, Fla. - Continued[a]

Coral Gables Canal at Ingraham Highway

Date	Specific conductance (K x 10^6 at 25°C.)	Chloride (Cl, ppm)	Date	Specific conductance (K x 10^6 at 25°C.)	Chloride (Cl, ppm)	Date	Specific conductance (K x 10^6 at 25°C.)	Chloride (Cl, ppm)
1940			1940-41			1941		
Apr. 3	4,220	15,010	Oct. 3	3,480	12,830	Apr. 3	4,250	15,350
Apr. 14	4,410	16,360	Oct. 18	4,270	15,400	Apr. 18	3,700	12,830
May 3	4,860	17,890	Nov. 1	3,800	13,420	May 1	4,070	14,670
May 16	4,770	18,230	Nov. 15	3,740	13,320	May 20	4,240	15,100
June 5	3,570	12,730	Dec. 3	4,010	14,280	June 4	5,160	18,940
June 17	4,070	14,770	Dec. 17	3,620	12,830	June 17	5,260	18,850
July 1	4,180	16,020	Jan. 18	4,360	15,730	July 2	4,470	15,830
July 18	4,580	17,120	Jan. 31	4,330	16,020	July 14	4,720	17,170
Aug. 1	5,080	19,470	Feb. 19	4,300	15,680	July 30	4,470	16,120
Aug. 16	4,740	17,750	Mar. 1	3,960	14,140	Aug. 18	5,180	18,850
Sept. 4	3,900	14,480	Mar. 14	4,200	15,250	Sept. 3	5,070	18,700
Sept.18	3,970	14,240						

Coral Gables Canal at Hardee Road

1940			1940-41			1941		
Apr. 3	948	2,900	Oct. 3	3,010	10,400	Apr. 3	3,970	14,140
Apr. 14	4,410	16,260	Oct. 18	3,860	13,700	Apr. 18	3,380	11,710
May 3	4,580	16,550	Nov. 1	3,300	11,470	May 1	3,430	12,060
May 16	4,490	17,120	Nov. 15	3,150	10,890	May 20	3,710	13,070
June 5	2,530	8,880	Dec. 3	3,860	13,700	June 4	4,720	16,980
June 17	3,100	11,370	Dec. 17	3,060	10,590	June 17	4,840	17,120
July 1	3,660	13,750	Jan. 18	3,720	13,120	July 2	3,860	13,510
July 18	3,840	14,140	Jan. 31	3,740	13,610	July 14	4,170	15,200
Aug. 1	4,400	16,740	Feb. 19	3,290	11,470	July 30	3,780	13,420
Aug. 16	4,020	15,300	Mar. 1	3,380	11,910	Aug. 18	4,860	17,750
Sept. 4	4,080	15,150	Mar. 14	3,830	13,510	Sept. 3	4,710	17,460
Sept.18	3,600	12,930						

Coral Gables Canal at Miller Road

1940			1940-41			1941		
Apr. 3	174	410	Oct. 3	1,730	5,730	Apr. 3	443	1,260
Apr. 14	945	2,850	Oct. 18	3,090	10,790	Apr. 18	356	950
May 3	941	2,920	Nov. 1	2,220	7,410	May 1	113	228
May 16	1,470	4,820	Nov. 15	826	2,500	May 20	1,050	3,300
June 5	139	292	Dec. 3	231	542	June 4	2,290	7,650
June 17	156	350	Dec. 17	612	1,770	June 17	3,340	11,710
July 1	191	465	Jan. 18	153	302	July 2	236	612
July 18	294	780	Jan. 31	1,910	6,470	July 14	150	348
Aug. 1	3,740	13,560	Feb. 19	2,800	9,520	July 30	264	680
Aug. 16	96.4	167	Mar. 1	164	368	Aug. 18	430	1,210
Sept. 4	1,270	4,180	Mar. 14	1,970	6,520	Sept. 3	4,090	14,820
Sept.18	2,670	9,180						

Coral Gables Canal at U. S. Highway 1

1940			1940-41			1941		
Apr. 3	146	322	Oct. 3	308	820	Apr. 3	262	680
Apr. 14	416	1,150	Oct. 18	1,880	6,270	Apr. 18	146	320
May 3	849	2,580	Nov. 1	547	1,550	May 1	85.8	143
May 16	1,340	4,350	Nov. 15	185	452	May 20	181	428
June 5	125	255	Dec. 3	181	425	June 4	2,500	8,440
June 17	136	288	Dec. 17	552	1,580	June 17	1,530	5,040
July 1	161	368	Jan. 18	103	190	July 2	170	405
July 18	213	530	Jan. 31	1,620	5,330	July 14	142	315
Aug. 1	3,020	10,590	Feb. 19	604	1,750	July 30	148	320
Aug. 16	74.1	101	Mar. 1	147	318	Aug. 18	93.8	203
Sept. 4	377	1,040	Mar. 14	216	522	Sept. 3	737	2,225
Sept.18	614	1,780						

Coral Gables Canal at Granada Boulevard

1940			1940-41			1941		
Apr. 3	57.2	55	Oct. 3	65.0	69	Apr. 3	51.6	51
Apr. 14	83.9	129	Oct. 18	68.8	94	Apr. 18	48.1	41
May 3	159	358	Nov. 1	73.6	102	May 1	47.3	28
May 16	966	3,000	Nov. 15	56.8	67	May 20	56.0	64
June 5	54.7	47	Dec. 3	61.6	76	June 4	288	770
June 17	57.3	57	Dec. 17	60.0	61	June 17	354	990
July 1	57.5	57	Jan. 18	54.4	47	July 2	46.9	47
July 18	71.4	109	Jan. 31	58.7	62	July 14	48.5	37
Aug. 1	1,390	4,420	Feb. 19	53.7	47	July 30	50.6	39
Aug. 16	53.3	39	Mar. 1	55.0	47	Aug. 18	32.4	33
Sept. 4	66.6	85	Mar. 14	58.8	57	Sept. 3	32.7	30
Sept.18	60.6	69						

[a] The values reported are the higher values obtained for surface and bottom samples collected on each sampling date. The higher concentrations were usually observed in the bottom samples.

Tidal canals in and near Miami, Fla. - Continued[a]

Coral Gables Canal at Bird Road

Date	Specific conductance (K x 10^6 at 25°C.)	Chloride (Cl, ppm)	Date	Specific conductance (K x 10^6 at 25°C.)	Chloride (Cl, ppm)	Date	Specific conductance (K x 10^6 at 25°C.)	Chloride (Cl, ppm)
1940			1940-41			1941		
Apr. 3	45.2	16	Oct. 3	49.9	18	Apr. 3	45.6	18
Apr. 14	44.8	19	Oct. 18	47.1	18	Apr. 18	44.3	19
May 3	41.9	20	Nov. 1	47.7	17	May 1	41.6	17
May 16	295	790	Nov. 15	45.1	17	May 20	44.1	21
June 5	45.6	17	Dec. 3	44.5	19	June 4	35.3	20
June 17	45.4	17	Dec. 17	45.9	19	June 17	30.4	28
July 1	46.6	16	Jan. 18	47.6	18	July 2	40.8	17
July 18	42.0	17	Jan. 31	46.3	18	July 14	41.5	18
Aug. 1	45.8	28	Feb. 19	48.1	19	July 30	46.0	17
Aug. 16	43.5	15	Mar. 1	47.5	19	Aug. 18	34.1	16
Sept. 4	44.1	17	Mar. 14	48.0	17	Sept. 3	35.0	18
Sept. 18	46.5	17						

Coral Gables Canal at Red Road

1940			1940-41			1941		
Apr. 3	43.4	15	Oct. 3	47.8	15	Apr. 3	43.9	15
Apr. 14	43.4	16	Oct. 18	47.0	15	Apr. 18	42.8	15
May 3	39.1	15	Nov. 1	45.8	15	May 1	42.7	16
May 16	36.8	15	Nov. 15	43.0	16	May 20	44.1	16
June 5	45.7	15	Dec. 3	45.2	17	June 4	34.4	18
June 17	43.2	16	Dec. 17	43.2	16	June 17	27.5	15
July 1	45.4	15	Jan. 18	46.3	15	July 2	37.4	16
July 18	36.7	15	Jan. 31	45.2	15	July 14	39.0	15
Aug. 1	40.0	16	Feb. 19	45.1	15	July 30	38.2	16
Aug. 16	46.2	15	Mar. 1	45.5	15	Aug. 18	35.0	15
Sept. 4	44.7	15	Mar. 14	48.5	15	Sept. 3	33.8	15
Sept. 18	45.7	17						

Snapper Creek Canal at Ingraham Highway

1941			1941			1941		
Mar. 2	1,652	5,330	May 20	400	1,100	July 14	86.6	153
Mar. 14	55.0	37	June 4	4,800	17,460	July 30	177	412
Apr. 3	89.2	151	June 17	4,840	17,030	Aug. 18	423	1,180
Apr. 18	121	234	July 2	251	650	Sept. 3	4,290	15,590
May 1	131	272						

Snapper Creek Canal at Red Road Bridge

1941			1941			1941		
Mar. 2	48.1	15	May 20	46.2	16	July 14	45.8	15
Mar. 14	47.9	14	June 4	40.2	16	July 30	45.6	17
Apr. 3	42.1	14	June 17	28.9	16	Aug. 18	33.2	15
Apr. 18	42.4	15	July 2	38.9	17	Sept. 3	33.0	15
May 1	38.2	14						

Snapper Creek Canal at U. S. Highway 1

1941			1941			1941		
Mar. 2	48.2	15	May 20	44.6	14	July 14	41.9	13
Mar. 14	47.6	14	June 4	39.4	17	July 30	43.1	15
Apr. 3	41.9	15	June 17	31.8	15	Aug. 18	41.2	16
Apr. 18	41.0	16	July 2	40.0	15	Sept. 3	32.5	13
May 1	37.6	14						

Snapper Creek Canal at Kendal Road

1941			1941			1941		
Mar. 2	48.1	14	May 20	43.6	15	July 30	42.6	14
Mar. 14	48.2	15	July 2	37.9	15	Aug. 18	33.3	14
Apr. 3	40.0	15	July 14	44.4	14	Sept. 3	37.0	14
May 1	38.9	14						

[a] The values reported are the higher values obtained for surface and bottom samples collected on each sampling date. The higher concentrations were usually observed in the bottom samples.

Canals near Florida City, Fla.

Canal along west side of U. S. Highway 1 southeast of Florida City

Date	Distance from Palm Drive in Florida City (miles)	Sampling point	Specific conductance (K x 10^6 at 25°C.)	Chloride (Cl, ppm)
Jan. 17, 1941	3	Surface	53.3	58
		Bottom	53.7	60
	6	Surface	120	248
		Bottom	124	258
Feb. 23, 1941	.6	Bottom	37.1	12
	2.3	Bottom	38.1	17
	3.3	Bottom	44.5	34
	[a]4.1	Bottom	52.8	55
	4.9	Surface	74.2	117
	4.9	Bottom	75.0	119
	5.7	Surface	100	192
	5.7	Bottom	102	195
	7.2	Bottom	133	268
	8.7	Bottom	176	412
	9.5	Bottom	3,970	14,240
	10.2	Bottom	4,050	14,620
Mar. 26, 1941	3	Integrated	46.8	39
	6	Integrated	95.2	171
Apr. 23, 1941	3	Integrated	56.1	72
	6	Integrated	96.1	180
May 28, 1941	3	Integrated	46.1	41
	6	Integrated	84.8	145
June 27, 1941	3	Surface	39.9	31
	3	Bottom	37.8	30
	6	Surface	83.5	136
	6	Bottom	80.6	139
July 28, 1941	3	Surface	41.9	33
	3	Bottom	42.7	32
	6	Surface	72.2	109
	6	Bottom	72.7	109
Aug. 27, 1941	3	Surface	47.0	42
	3	Bottom	46.1	43
	6	Surface	76.5	126
	6	Bottom	77.9	129
Sept. 24, 1941	3	Surface	38.7	26
	3	Bottom	38.9	25
	6	Surface	61.4	81
	6	Bottom	61.1	83

Borrow ditch along east side of Florida East Coast Railway grade south of Florida City

Feb. 22, 1941	7.5	Bottom	44.8	45
	8.5	Bottom	86.6	144
	9.5	Bottom	117	226
	10.5	Bottom	450	1,260
	11.5	Bottom	1,485	4,730
	12.5	Bottom	3,470	12,200
	12.8	Bottom	3,470	12,150

Borrow ditch along west side of Florida East Coast Railway grade south of Florida City

Feb. 22, 1941	1.5	Bottom	42.0	13
	5.5	Bottom	32.6	19
	13.5	Bottom	1,434	4,600

[a] Sample taken about 1/4 mile west of U. S. Highway 1 from ditch which drains into canal along highway.

Canals near Florida City, Fla. - Continued

Florida City Canal east of Florida City

Date	Distance from U. S. No. 1 Florida City (miles)	Sampling point	Specific conductance (K x 10^5 at 25°C.)	Chloride (Cl, ppm)
Feb. 23, 1941	0	Bottom	36.7	12
	2.0	Bottom	34.3	12
	4.0	Bottom	44.8	35
	5.0	Bottom	58.4	73
	6.0	Bottom	74.2	115
	6.8	Bottom	79.8	129
	8.1	Bottom	146	329
	8.6	Bottom	3,630	12,980
	[b]9.1	Bottom	3,890	13,170

[b] 500 feet from Biscayne Bay.

Lake Okeechobee, Fla., March 11-12, 1941

(Analyses in parts per million)

Surface samples

Station[a]	Color	Specific conductance (K x 10^5 at 25°C.)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na+K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Nitrate (NO_3)	Dissolved solids	Total hardness as $CaCO_3$
2	50	33.7	38	11	17	121	29	33	0.4	188	140
5	60	33.3	38	11	16	120	28	33	.5	186	140
10	75	33.9	37	10	19	120	26	34	.7	186	133
15	120	13.3	15	5.5	5.5	38	16	17	.2	78	60
19	100	30.4	34	9.4	15	108	25	30	.2	167	124
24	85	33.6	36	10	20	120	25	35	.2	186	131
28	75	36.0	38	12	19	126	28	37	1.0	197	144
34	90	31.8	32	12	16	112	25	33	.6	174	129
39	90	30.9	30	12	17	116	24	29	.3	170	124
41	90	33.0	36	11	20	124	28	33	.4	190	135

[a] Numbers refer to stations at which samples were collected. Less complete analyses were made on samples collected at other stations corresponding to missing numbers. Composition of lake fairly uniform except near mouth of Kissimmee River as shown by analysis for sample collected at station 15.

Lower Mississippi River Basin

Canadian River near Sanchez (at Garms Bridge), N. Mex.

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Suspended matter (percent)	Specific conductance (K x 10^5 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Total	Hardness as $CaCO_3$: Noncarbonate	Percent sodium
Oct. 1-2, 4-10, 1940	18	0.02	118	16	0.03	114	44	90		183	461	21	0.4	0.8	0.2	837	1.14	40	466	316	30
Oct. 11-14, 16-20	15	.01	99.6	14	.02	92	39	76		202	347	19	.4	.2	.2	687	.93	28	390	224	30
Oct. 21-31	8	.01	91.3	13	.02	85	35	68		210	292	19	.3	.3	.2	616	.84	14	356	184	30
Nov. 1-10	6	.01	106	13	.02	94	42	88		222	366	24	.3	.1	.3	737	1.00	12	407	225	32
Nov. 12-20	6	.01	132	13	.02	122	53	111		237	506	30	.3	.4	.3	953	1.30	16	522	328	32
Nov. 21-30	43	.01	133	11	.02	124	55	107		181	556	28	.3	.5	.3	971	1.32	112	536	387	30
Dec. 1-8, 10	59	.01	144	12	.02	135	62	114		204	604	29	.3	1.3	.3	1,056	1.44	169	592	425	29
Dec. 11-14, 16-20	68	.02	149	8.6	.03	136	66	119		223	620	29	.3	.4	.3	1,089	1.46	201	611	428	30
Dec. 21-31	56	.01	126	9.2	.01	124	55	88		220	486	23	.4	9.6	.1	904	1.23	138	536	355	26
Jan. 1-10, 1941	56	.01	131	7.8	.01	124	59	97		217	523	25	.4	4.9	.2	948	1.29	143	552	374	28
Jan. 11-20	57	.01	132	9.0	.01	122	61	103		221	538	26	.3	.3	.3	969	1.32	149	556	374	29
Jan. 21-31	58	.01	144	9.2	.02	130	67	114		212	608	28	.3	.3	.3	1,061	1.44	166	600	426	29
Feb. 1-10	106	.02	158	9.6	.12	142	77	124	5.4	194	712	28	.4	.4	.4	1,195	1.63	341	671	462	29
Feb. 11-18	82	.01	175	7.6	.12	154	87	138	4.8	187	807	33	.4	.1	.3	1,324	1.80	293	742	508	29
Feb. 21-28	72	.00	133	4.8	.16	122	61	-	4.8	-	561	23	.5	.1	.1	-	-	-	556	-	-
Mar. 1-10	41	.00	147	6.8	.12	133	69	111	3.8	196	637	28	.4	.2	.2	1,086	1.48	121	616	455	29
Mar. 11-14	19	.01	175	6.4	.12	158	84	140	4.5	198	810	35	.4	.2	.3	1,336	1.82	69	740	578	30
Mar. 15-20	17	.00	134	11	.16	173	54	59	4.8	202	489	27	.8	97	.3	1,015	1.38	47	654	488	17
Mar. 21	27	.00	191	-	-	168	94	-	-	167	925	41	-	-	-	-	-	-	806	-	-
Mar. 22-24	248	.14	82.2	13	.12	76	31	55	3.4	136	298	14	.3	2.6	.6	560	.76	375	317	206	28
Mar. 25-31	961	.38	89.7	15	.14	87	36	61	3.0	166	325	15	.4	2.8	.2	627	.85	1,627	365	220	27
Apr. 1-10	381	.20	80.4	17	.01	80	31	50	3.4	181	257	11	.3	3.2	.1	542	.74	558	327	178	26
Apr. 11-20	219	.06	70.7	16	.02	74	26	39	2.8	179	207	10	.3	2.3	.1	466	.63	275	292	145	23
Apr. 21-25, 29-30	1,058	1.03	77.5	16	.03	105	22	30	4.0	192	223	14	.3	17	.1	526	.72	1,503	352	195	17

Canadian River near Sanchez (at Garms Bridge), N. Mex. - Continued

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Suspended matter (percent)	Specific conductance (K x 10^5 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_2)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Total	Hardness as $CaCO_3$: Noncarbonate	Percent sodium
May 1-10	7,479	1.78	56.9	18	0.03	61	18	31	3.3	163	150	7.0	0.5	0.3	0.1	369	0.50	7,450	226	92	24
May 11-13, 15-20	2,961	.68	42.0	17	.06	50	12	18	2.7	149	85	5.4	.4	.3	.1	264	.36	2,111	174	52	20
May 21-31	3,807	.60	42.3	14	.06	51	13	19	3.1	142	91	5.0	.3	.7	.1	267	.36	2,740	181	64	20
June 1-10	2,845	.64	50.1	15	.14	59	16	24	3.0	152	124	6.0	.4	1.0	.1	323	.44	2,481	213	88	21
June 11-20	1,245	.17	60.2	14	.01	66	21	33	3.0	153	173	8.2	.4	2.1	.2	396	.54	1,331	251	126	23
June 21-23, 26-30	908	.30	58.8	14	.18	63	19	33	3.3	153	163	8.2	.4	1.7	.1	381	.52	934	235	110	24
June 24	654	.01	118	-	-	151	46	51		204	436	26	-	25	-	836	1.14	1,476	566	399	17
June 25	783	.01	124	-	-	160	50	50		208	456	30	-	32	-	880	1.20	1,860	605	434	15
July 1-10	394	.03	68.7	12	.01	74	24	39	2.9	162	207	11	.4	2.3	.2	452	.61	481	283	250	24
July 11-20	974	-	61.4	15	.06	64	21	37	6.4	180	163	9.5	.5	.4	.2	406	.55	1,068	246	98	26
July 21-31	1,327	-	53.4	15	.10	60	17	30	5.4	161	140	7.0	.4	.2	.2	354	.48	1,268	220	88	25
Aug. 1-8, 11, 12, 20, 25, 26	672	-	72.0	13	.14	78	24	42	5.8	181	217	10	.4	1.9	.3	481	.65	872	293	144	25
Sept. 4-10	106	-	89.9	14	.16	84	35	61	5.4	166	321	15	.3	.7	.2	618	.84	177	354	218	28
Sept. 11, 12, 14-20	111	-	107	12	.12	96	43	79	5.8	160	420	20	.4	.4	.2	756	1.03	227	416	286	30
Sept. 21, 23-27, 30	3,834	-	51.3	15	.14	55	16	28	5.0	145	137	5.8	.4	1.2	.2	335	.46	3,470	204	84	25
Sept. 22, 28, 29	8,500	-	24.1	-	-	31	6.6	8.5		103	34	2.2	-	-	-	-	-	-	104	20	15

Conchas River at Variadero, N. Mex.

Date	Specific conductance (K x 10^6 at 25° C.)	Bicarbonate (HCO_3, ppm)	Chloride (Cl, ppm)
Mar. 23-25, 1941	71.7	262	19
Mar. 26-31	40.2	167	8.5
Apr. 1	52.4	201	13
Apr. 2-4	65.8	230	17
Apr. 5-12	80.2	301	21
Apr. 13	98.2	275	30
Apr. 24	75.5	276	20
Apr. 25	66.1	232	18
Apr. 26	36.0	188	7.0
Apr. 27, 28	57.9	240	20
Apr. 29, 30	32.8	173	3.0
May 1-7	32.4	149	4.0
May 8, 9	42.5	162	9.0
May 10-12	50.1	190	11
May 22-31	32.9	151	5.0
June 1-10	32.2	147	4.0
June 11-20	39.7	163	8.0
June 21-23	45.1	183	9.0
June 24-29	31.7	146	4.0
June 30	44.4	167	8.0
July 1, 2, 12-16, 18-20	36.7	168	7.0
July 21-31	35.1	158	6.0
Aug. 1-4	37.9	161	7.0
Aug. 10-20	35.6	160	6.0
Aug. 21-31	32.4	154	6.0
Sept. 20, 21	47.0	182	11
Sept. 22-25	25.2	120	3.0
Sept. 26-28	38.0	158	8.0
Sept. 29, 30	24.3	114	3.0

(Analyses in parts per million)

Date of collection.....	Mar. 23-25, 1941	Mar. 26-31, 1941
Specific conductance (K x 10^5 at 25°C.).....	71.7	40.2
Silica (SiO_2).....	15	13
Iron (Fe).....	.14	.06
Calcium (Ca).....	47	38
Magnesium (Mg).....	21	11
Sodium (Na).....	81	33
Potassium (K).....	3.4	2.5
Bicarbonate (HCO_3).....	262	167
Sulfate (SO_4).....	140	58
Chloride (Cl).....	19	8.5
Fluoride (F).....	.5	.4
Nitrate (NO_3).....	.5	3.2
Dissolved solids.....	457	250
Total hardness as $CaCO_3$.....	204	140

Reservoir behind Conchas Dam, N. Mex.[a]

Monthly composite samples

Month	Station 1				Station 2				Station 3			
	No. of samples	Specific conductance (K x 10^5 at 25° C.)	Bicarbonate (HCO_3, ppm)	Chloride (Cl, ppm)	No. of samples	Specific conductance (K x 10^5 at 25° C.)	Bicarbonate (HCO_3, ppm)	Chloride (Cl, ppm)	No. of samples	Specific conductance (K x 10^5 at 25° C.)	Bicarbonate (HCO_3, ppm)	Chloride (Cl, ppm)
1940												
Oct.	5	90.2	150	19	5	90.4	152	18	5	90.5	149	19
Nov.	4	92.1	161	19	4	91.8	158	19	4	92.9	165	18
Dec.	4	92.9	157	20	4	93.0	157	19	4	94.1	166	19
1941												
Jan.	5	94.6	160	19	5	94.8	154	19	5	95.9	161	19
Feb.	4	95.7	158	19	4	96.3	160	19	4	97.0	159	19
Mar.	3	98.2	160	22	3	98.5	158	20	4	98.6	160	20
Apr.	4	97.7	160	21	4	97.7	160	19	4	98.0	159	19
May	4	70.6	125	13	4	67.1	124	12	4	66.7	124	11
June	3	57.2	117	10	3	57.3	117	10	3	54.4	116	9.0
July	3	56.2	120	10	2	55.6	118	10	3	55.7	120	11
Aug.	4	55.0	123	10	4	54.8	124	9.0	4	55.3	125	9.0
Sept.	3	54.2	127	10	3	54.3	128	9.0	3	54.4	127	10

Samples from different depths

(Analyses in parts per million)

Date	Sampling point	Depth (feet)	Specific conductance (K x 10^5 at 25° C.)	Calcium (Ca)	Magnesium (Mg)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)
July 18, 1941	Station 1	Surface	53.5	-	-	120	-	9.0
		25	55.3	-	-	120	-	10
		50	56.7	-	-	121	-	10
		75	58.8	-	-	124	-	11
		100	57.5	-	-	122	-	9.0
		115	82.9	-	-	496	-	8.0
Sept. 10, 1941	Station 1	Surface	54.3	-	-	127	-	9.0
		25	54.4	54	19	127	159	9.0
		50	54.0	-	-	127	-	10
		75	53.5	52	19	126	151	8.0
		93	55.9	64	18	166	141	8.0
July 18, 1941	Station 2	Surface	53.5	-	-	114	-	10
		25	55.6	-	-	120	-	10
		50	53.7	-	-	117	-	9.0
		75	57.4	-	-	122	-	11
		100	51.2	-	-	116	-	8.0
		125	46.8	-	-	111	-	7.0
		135	79.4	-	-	442	-	13
Sept. 10, 1941	Station 2	Surface	54.1	-	-	127	-	9.0
		25	54.1	54	18	129	158	9.0
		50	53.9	-	-	128	-	9.0
		75	52.9	-	-	128	-	9.0
		100	49.9	52	17	126	139	8.0
		125	60.3	-	-	268	98	8.0
July 18, 1941	Station 3	Surface	49.8	56	17	118	145	10
		25	55.5	56	21	119	170	9.0
		50	53.9	-	-	118	-	10
		75	47.5	-	-	109	-	7.0
		100	44.3	46	16	108	127	7.0
		125	150	-	-	1,044	-	-
Sept. 10, 1941	Station 3	Surface	54.5	-	-	128	-	9.0
		25	53.8	56	18	126	156	9.0
		50	54.0	-	-	128	-	9.0
		75	52.9	-	-	128	-	10
		100	49.7	52	17	124	132	8.0
		125	62.1	82	22	254	126	7.0

[a] Station 1, Conchas River arm of reservoir, approximately 3,000 feet above dam.
Station 2, 400 feet above dam.
Station 3, Canadian River arm of reservoir, 800 feet above dam.

Western Gulf of Mexico basins

Rio Grande at San Acacia, N. Mex.

(Analyses in parts per million)

Date of collect'on	Mean dis-charge (second-feet)	Sus-pended matter (per-cent)	Specific conduct-ance (K x 10^6 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Total	Hardness as $CaCO_3$: Non-carbonate	Per-cent sodium
Oct. 1-10, 1940	443	0.85	90.2	24	0.20	86	17	89	9.6	200	253	40	0.7	0.83	0.7	619	0.84	741	284	120	42
Oct. 11-20	176	.54	86.0	37	.03	81	15	85	4.3	218	202	44	.6	.00	.4	576	.78	274	264	85	42
Oct. 21-31	372	.36	77.6	33	.02	77	14	73	4.0	204	181	37	.6	.94	.4	521	.71	523	250	82	40
Nov. 1-10	273	.30	86.4	33	.02	82	15	84	4.3	220	203	44	.5	.00	.4	574	.78	423	266	86	41
Nov. 11-20	159	.38	96.8	39	.02	90	17	99	4.6	233	231	56	.5	.00	.5	652	.89	281	295	104	43
Nov. 21-30	940	.87	95.0	29	.02	82	15	104	4.0	206	220	65	.5	.40	.5	621	.84	1,576	266	97	46
Dec. 1-10	718	.41	84.6	32	.02	72	14	91	4.0	202	180	56	.6	.10	.4	549	.75	1,064	237	72	46
Dec. 11-20	874	.56	78.5	32	.02	70	13	79	3.8	198	164	48	.6	.10	.4	508	.69	1,199	228	66	44
Dec. 21-31	807	.44	77.0	30	.02	70	13	80	3.8	199	163	50	.6	.05	.4	508	.69	1,107	228	65	44
Jan. 1, 2, 4-10, 1941	805	.75	78.8	28	.02	68	13	82	3.7	194	166	50	.6	.00	.4	507	.69	1,102	223	64	45
Jan. 11-20	742	.34	85.3	37	.03	70	13	88	4.4	206	174	55	.6	.58	.4	544	.74	1,090	228	59	46
Jan. 21-31	749	.31	80.0	37	.04	68	13	81	4.0	202	160	51	.6	.50	.4	515	.70	1,041	223	58	45
Feb. 1-10	1,150	.54	80.8	30	.03	70	13	79	4.3	196	176	45	.5	.56	.4	515	.70	1,599	228	68	44
Feb. 11-19	1,141	1.03	87.5	30	.04	73	14	94	3.9	197	225	40	.6	.44	.3	578	.79	1,781	240	78	47
Feb. 20-28	1,396	2.09	85.7	23	.03	71	14	94	4.5	199	223	37	.7	.07	.2	565	.77	2,129	234	72	47
Mar. 1-10	1,031	1.16	81.2	25	.02	70	14	83	4.3	198	194	39	.6	.53	.4	528	.72	1,470	232	70	44
Mar. 11-20	1,184	1.65	89.8	25	.02	77	15	95	4.4	205	226	46	.6	.42	.4	590	.80	1,887	254	86	45
Mar. 21-31	2,203	1.89	82.0	22	.03	72	14	84	4.0	185	221	33	.6	.12	.3	542	.74	3,220	237	86	44
Apr. 1-5, 7-9	1,936	1.18	70.4	25	.03	69	13	60	4.4	179	174	26	.5	.30	.4	460	.63	2,405	226	79	38
Apr. 11-20	2,101	.76	62.4	24	.05	60	11	54	3.8	169	136	28	.5	.38	.3	401	.55	2,275	194	56	38
Apr. 21-30	2,532	.76	70.6	28	.01	65	13	65	4.4	172	163	36	.5	.96	.3	461	.63	3,150	216	74	41
May 1-10	10,820	2.43	74.9	24	.02	69	14	70	4.4	159	205	30	.5	.20	.3	495	.67	14,500	230	99	41
May 11-20	20,040	1.04	44.6	23	.02	50	8.8	29	3.6	137	94	12	.5	.30	.3	289	.39	15,600	161	48	30
May 21-31	18,080	1.00	44.4	22	.01	48	8.1	32	3.5	134	92	13	.4	1.1	.2	286	.39	14,000	154	44	33
June 1-3, 5-10	13,280	.62	38.0	20	.01	42	7.1	25	3.0	125	71	10	.3	1.2	.2	241	.33	8,640	134	32	30
June 11-20	8,035	.45	39.9	20	.02	45	7.9	26	3.4	129	76	11	.4	1.5	.2	255	.35	5,530	145	40	30
June 21-30	8,731	.47	38.1	23	.02	45	7.7	24	3.3	129	69	11	.4	1.0	.2	248	.34	5,850	144	39	28
July 1-10	5,875	.23	36.5	23	.02	42	7.1	23	3.6	122	66	9.8	.4	.70	.2	236	.32	3,740	134	34	29
July 11-20	3,458	.44	45.6	24	.02	52	8.8	30	3.9	140	92	14	.4	1.0	.2	295	.40	2,750	166	52	30
July 21-31	1,910	.33	54.7	27	.03	58	10	42	4.4	153	118	20	.5	1.1	.2	356	.48	1,836	186	61	34
Aug. 1-9	691	.71	70.1	28	.09	68	13	60	4.9	171	158	31	.5	1.2	.1	457	.62	852	223	73	38
Aug. 12-20	1,931	2.55	87.7	23	.22	88	17	75	5.1	178	254	31	.6	.53	.1	582	.79	3,030	290	144	37
Aug. 21-31	1,032	1.01	75.1	24	.02	71	14	65	5.1	182	175	35	.5	1.3	.1	481	.65	1,341	234	85	39
Sept. 1-10	687	.67	75.8	24	.06	71	14	69	5.2	183	177	36	.5	1.1	.2	488	.66	905	234	84	40
Sept. 11-19	411	.59	85.4	27	.02	79	15	81	6.2	202	209	41	.5	1.2	.2	559	.76	621	258	93	42
Sept. 21-23, 25-30	3,444	5.07	115	16	.02	108	20	112	5.7	160	387	44	.7	1.9	.2	774	1.05	7,200	352	221	42
Weighted average	3,354	-	55.1	23	.03	56	10	45	3.8	148	126	20	.5	.8	-	359	.49	3,250	181	60	36

Pecos River near Anton Chico, N. Mex.

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Specific conductance (K x 10^6 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Percent sodium
Oct. 1-10, 1940	87.5	23.1	13	0.08	38	4.8	5.4		134	13	1.5	0.2	0.4	-	142	0.19	34	9
Oct. 11-20	74.7	23.6	11	.06	39	4.9	4.6		137	13	1.0	-	.4	-	148	.20	30	8
Oct. 21-31	58.5	24.5	11	.07	41	5.5	4.3		144	14	1.0	-	.4	-	148	.20	23	7
Nov. 1-6, 8-10	47.2	26.5	13	.06	43	5.7	6.7		151	16	2.0	.4	1.0	-	162	.22	21	10
Nov. 11-20	36.0	28.1	13	.04	46	6.2	6.4		163	18	1.0	-	1.4	0.00	172	.23	17	9
Nov. 21-31	54.3	26.9	21	.04	43	5.9	6.0		152	18	1.5	-	.2	-	171	.23	25	9
Dec. 1-6, 8-10	42.1	27.4	21	.04	46	5.9	5.3		160	18	1.0	-	.1	.06	176	.24	20	8
Dec. 11-20	43.4	26.8	11	.04	44	5.6	5.8		154	17	1.0	-	.4	-	161	.22	19	9
Dec. 22-31	54.9	26.0	13	.04	42	5.4	5.3		146	17	1.0	-	.2	-	156	.21	23	8
Jan. 1-10, 1941	44.0	27.0	10	.04	44	5.8	6.0		152	19	1.0	.2	.6	.02	162	.22	19	9
Jan. 11-20	39.1	27.3	8.7	.04	45	5.7	6.2		156	19	1.0	-	.2	-	163	.22	17	9
Jan. 21-27, 29-31	40.6	28.5	9.3	.04	45	6.0	8.0		160	20	1.5	-	.4	-	169	.23	19	11
Feb. 1-2, 4-10	41.0	28.2	15	.05	46	5.4	7.6		156	21	2.0	.02	.6	.00	175	.24	20	11
Feb. 11-20	45.9	27.6	13	.05	45	5.1	6.9		152	20	2.0	-	.2	.00	167	.23	21	10
Feb. 21-24, 26-28	75.0	25.5	12	.04	41	4.5	6.7		139	19	1.0	-	-	.00	153	.21	31	11
Mar. 1, 3-10	112	25.0	15	.06	40	5.6	6.9		133	20	4.0	.3	1.7	.00	159	.22	48	11
Mar. 11-20	118	24.8	13	.07	40	5.4	6.9		134	22	2.5	-	.8	-	157	.21	50	11
Mar. 21-22, 24-30	532	21.5	21	.07	33	4.9	7.8		112	21	3.0	-	1.8	-	148	.20	213	14
Apr. 1-10	470	23.6	25	.06	35	4.9	8.0		122	20	1.5	.3	1.0	.1	156	.21	201	14
Apr. 11-13, 15-20	527	21.2	20	-	32	3.9	7.4		111	18	1.0	-	1.2	-	138	.19	196	14
Apr. 21-30	567	22.8	20	-	34	4.4	7.8		119	17	3.0	-	1.0	-	146	.20	224	14
May 1-10	1,722	22.5	17	.06	36	3.6	6.7		124	14	1.0	.3	1.0	.1	141	.19	656	12
May 11-18, 20	2,382	19.5	16	-	32	2.9	6.4		111	12	1.0	-	1.0	-	126	.17	810	13
May 21-31	2,030	17.0	17	-	26	2.8	7.4		96	11	1.5	-	.6	-	114	.16	625	17
June 1-7, 9-10	1,564	16.8	15	.07	26	3.2	5.1		92	11	.5	.2	1.0	.1	107	.15	452	12
June 11-20	960	15.5	12	-	24	2.9	4.8		86	11	.5	-	.1	-	98	.13	254	13
June 21-23,25-27,29-30	945	15.1	13	-	24	3.1	3.2		82	11	.5	-	.8	-	96	.13	245	9
July 1-10	575	17.2	14	.06	26	3.6	5.5		95	12	.5	.2	.4	.1	109	.15	169	13
July 11-16, 18-20	722	24.0	-	-	-	-	-		138	-	-	-	-	-	-	-	-	-
July 21-31	289	23.9	13	.07	40	4.1	4.5		124	21	.4	.1	2.8	-	147	.20	115	8
Aug. 1, 2, 4-10	239	20.8	-	-	-	-	-		116	-	-	-	-	-	-	-	-	-
Aug. 11-20	576	21.9	12	.08	37	3.7	4.6		117	19	.4	.1	1.2	-	136	.18	212	8
Aug. 21-24, 26-31	561	22.5	12	.07	38	3.8	5.3		129	13	.9	.1	1.4	-	138	.19	209	9
Sept. 2-10	119	25.2	-	-	-	-	-		146	-	-	-	-	-	-	-	-	-
Sept. 12-20	180	26.5	12	.07	44	5.1	1.4		138	17	1.7	.2	0	-	149	.20	72	2
Sept. 21, 23-30	1,573	22.6	15	.08	37	4.6	5.2		123	16	1.9	.2	2.3	-	143	.19	608	9

Pecos River at Santa Rosa, N. Mex.

Oct. 1-10, 1940	32.0	128	-	-	240	33	22	140	612	21	-	2.0	-	1,000	1.36	86	6
Oct. 11-20	21.9	157	-	-	305	41	28	138	802	29	-	3.5	-	1,278	1.74	76	6
Oct. 21-31	21.0	164	-	-	314	42	26	123	837	28	-	2.5	-	1,310	1.78	74	6
Nov. 1-10	19.2	162	-	-	320	43	26	139	842	29	-	1.0	-	1,330	1.81	69	5
Nov. 11-20	21.8	168	-	-	342	44	28	152	891	31	-	.50	-	1,411	1.92	83	6
Nov. 21-27, 29-30	25.5	152	-	-	300	38	21	146	764	25	-	.90	-	1,221	1.66	84	5
Dec. 1-10	20.9	166	-	-	330	43	26	137	867	30	-	.30	-	1,364	1.86	77	5
Dec. 11-20	21.8	166	-	-	334	42	27	150	865	29	-	.30	-	1,371	1.86	81	5
Dec. 21-30	21.1	170	-	-	342	43	26	153	885	28	-	.40	-	1,400	1.90	80	5

Pecos River near Puerto de Luna, N. Mex.

Oct. 1-10	123	243	20	0.06	456	66	79	3.8	116	1,279	113	0.2	1.0	0.4	2,075	2.82	714	11
Oct. 11-20	103	265	18	.06	506	73	90	3.6	97	1,430	126	.6	1.0	.5	2,296	3.12	661	11
Oct. 21-31	101	271	17	.06	526	73	87	4.2	115	1,475	126	.4	.5	.5	2,366	3.22	668	11
Nov. 1-10	108	270	21	.06	516	75	92	7.0	87	1,485	132	.4	.5	.2	2,372	3.23	693	12
Nov. 11-20	113	274	21	.05	528	75	88	5.4	107	1,491	130	.4	1.5	.2	2,393	3.25	728	11
Nov. 21-30	116	266	21	.06	504	75	86	5.8	108	1,427	131	.4	.5	.2	2,304	3.13	720	11
Dec. 1-10	103	271	26	.05	520	75	87	6.4	94	1,478	132	.4	.5	.1	2,372	3.23	660	11
Dec. 11-15, 17-20	112	272	25	.05	516	76	86	7.0	96	1,472	131	.4	.5	.1	2,361	3.21	711	11
Dec. 21-31	102	272	20	.04	522	74	84	8.8	97	1,473	133	.4	.5	.1	2,364	3.22	651	11

Pecos River near Puerto de Luna, N. Mex. - Continued

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Specific conductance (K x 10^6 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Percent sodium
1941																		
Jan. 1-10	94.4	269	22	0.04	541	76	69	4.0	100	1,490	130	0.0	1.0	0.3	2,382	3.24	607	8
Jan. 11-20	101	274	21	.03	541	76	81	3.6	131	1,485	134	.0	.75	.3	2,407	3.27	658	10
Jan. 21-31	92.0	277	18	.04	548	78	71	4.8	129	1,495	132	.2	.75	1.0	2,411	3.28	599	9
Feb. 1-10	91.7	281	18	.03	547	76	72	3.6	123	1,487	134	.0	.75	.5	2,399	3.26	594	9
Feb. 11-20	95.0	284	16	.03	561	77	67	3.2	130	1,508	135	.0	.50	.5	2,432	3.31	624	8
Feb. 21-28	98.1	278	17	.03	541	75	74	4.0	135	1,464	135	.0	.50	.5	2,377	3.23	630	9
Mar. 1-10	108	254	17	.05	502	66	70	3.6	126	1,360	114	.5	.50	.2	2,196	2.99	641	9
Mar. 11-20	122	243	18	.06	480	62	64	3.2	121	1,295	105	.4	1.0	.2	2,088	2.84	686	9
Mar. 21, 22	193	231	16	.06	449	58	70		127	1,210	102	.4	2.5	.2	1,971	2.68	1,027	10
Mar. 23	315	145	20	-	245	36	42		136	629	58	.3	2.0	.0	1,099	1.49	935	11
Mar. 24-26, 28-31	510	96.0	12	.07	150	21	29	2.6	130	357	33	.3	1.8	.0	671	.91	925	13
Mar. 27	616	68.1	15	-	101	15	19		114	219	22	-	2.5	.0	450	.61	748	11
Apr. 1-7, 9, 10	377	108	20	-	184	25	29		136	441	38	-	2.5	-	806	1.10	820	10
Apr. 11-20	418	95.7	19	-	164	21	23		135	374	32	-	1.5	-	701	.95	792	9
Apr. 21-28	329	115	20	-	200	25	33		137	481	42	-	1.5	-	870	1.18	772	11
Apr. 29-30	684	60.6	20	-	94	13	14		116	187	19	-	2.0	-	406	.55	750	9
May 1-10	2,541	53.6	25	.04	79	10	15	2.8	123	145	13	.3	3.5	.3	354	.48	2,429	13
May 11-16, 18-20	2,143	43.4	20	.07	68	7.6	10	1.2	113	113	9.0	.1	2.0	.0	287	.39	1,661	11
May 21-31	2,980	48.3	16	.09	71	8.6	16		115	132	10	.1	1.0	.4	311	.42	2,500	14
June 1-4, 6-10	1,974	56.4	17	.08	91	10	16		118	178	13	.2	2.5	.2	386	.52	2,058	12
June 11-20	1,038	58.8	18	.10	90	11	20		117	183	17	.2	4.0	.2	401	.55	1,124	14
June 21-30	1,057	65.1	18	.09	102	12	21		115	216	19	.2	3.0	.3	448	.61	1,279	13
July 1-5	968	69.5	18	.08	110	13	24		128	232	22	.2	2.2	.4	485	.66	1,268	14
July 6-10	434	107	18	.08	179	19	37		129	427	38	.1	1.5	.2	783	1.06	918	13
July 11, 19-20	567	125	15	-	220	26	36		137	534	45	-	2.0	.5	945	1.29	1,447	11
July 12-18	2,148	75.7	18	.10	120	13	25		122	268	18	.2	2.5	.5	525	.71	3,040	13
July 21,23-24,26-30	429	110	16	.09	187	22	37		131	457	38	.1	2.0	.3	824	1.12	954	13
July 22, 25, 31	1,047	52.2	15	-	82	8.7	16		110	161	12	-	1.5	.4	350	.48	989	13
Aug. 1-10	248	147	18	.07	262	33	41	5.4	131	673	54	.2	2.2	.1	1,153	1.57	773	11
Aug. 11-19	734	94.2	12	.10	156	20	23	5.2	132	360	30	.2	2.2	.1	674	.92	1,336	9
Aug. 20	1,510	53.0	-	-	-	-	-	-	135	-	14	-	-	-	-	-	-	-
Aug. 21-24	1,612	54.0	16	.07	80	10	17	4.0	124	152	13	.1	3.8	.0	357	.49	1,554	15
Aug. 25-31	1,245	84.7	16	.07	144	17	19	5.2	134	317	24	.1	2.5	.1	611	.83	2,053	10
Sept. 1-10	193	184	20	.07	346	46	49	8.0	140	914	71	.2	2.0	.3	1,518	2.06	790	10
Sept. 11-18	114	230	15	.06	454	59	61	8.8	131	1,222	99	.2	.8	1.0	1,984	2.70	613	10
Sept. 19, 20	864	71.8	15	-	115	14	19		167	214	18	-	1.1	.0	478	.65	1,115	11
Sept. 21-30	6,568	58.9	12	.05	94	11	16	4.3	121	193	12	.2	2.4	.0	405	.55	7,180	13

Pecos River near Guadalupe, N. Mex.

Oct. 1-10, 1940	90.0	163	25	0.08	277	44	54	7.2	94	777	69	0.4	2.5	0.1	1,302	1.77	316	13
Oct. 11-20	82.7	175	22	.08	301	46	58	6.2	93	849	75	.3	2.0	.1	1,405	1.91	325	12
Oct. 21-31	89.6	189	21	.08	334	49	64	5.8	97	940	83	.5	1.5	.1	1,547	2.10	374	12
Nov. 1-10	4.1	206	21	.06	351	60	78	4.4	119	1,019	99	.4	1.5	.3	1,693	2.30	19	13
Nov. 11-20	.3	211	22	.06	353	63	83	4.2	154	1,014	104	.4	1.5	.2	1,721	2.34	1.4	14
Nov. 21-30	.3	215	26	.05	352	66	89	3.0	131	1,032	110	1.0	2.0	.2	1,746	2.37	1.4	15
Dec. 1-10	.5	223	24	.04	354	73	90	4.6	131	1,072	120	.2	2.0	.4	1,804	2.45	2.4	15
Dec. 11-20	.4	222	21	.04	364	75	87	2.8	119	1,093	124	.20	1.8	.5	1,827	2.48	2.0	14
Dec. 21-31	.5	218	21	.04	358	73	88	3.6	122	1,079	118	.20	1.8	.5	1,803	2.45	2.4	14
Jan. 1-10, 1941	.5	228	25	.06	353	79	100	8.0	125	1,113	125	.4	2.0	.3	1,867	2.54	2.5	16
Jan. 11-20	.6	230	20	.06	375	74	91	10	135	1,133	121	.3	2.0	.5	1,893	2.57	3.1	15
Jan. 21-31	.7	234	18	.06	386	75	92	7.6	138	1,151	123	.4	.5	.2	1,922	2.61	3.6	14
Feb. 1-10	.6	233	19	.04	388	69	94	6.6	119	1,149	120	.4	2.0	.5	1,907	2.59	3.1	15
Feb. 11-20	3.6	222	28	.04	350	73	96	5.2	90	1,106	114	.6	1.5	.4	1,819	2.47	18	16
Feb. 21-28	66.1	252	17	.04	459	66	87	5.2	112	1,302	121	.5	1.5	.9	2,114	2.88	377	12
Mar. 1-10	108	253	16	.06	474	69	83	8.2	102	1,340	120	.3	1.0	.2	2,162	2.94	629	12
Mar. 11-20	1,201	257	14	.06	486	68	84	6.2	128	1,355	122	.4	1.5	.4	2,200	2.99	7,140	11
Mar. 21-31	178	234	14	.06	430	62	76	5.6	130	1,202	106	.5	.5	.2	1,961	2.67	945	11
Apr. 1-10	77.1	166	19	.04	280	43	57	4.4	105	774	71	.5	1.0	.0	1,302	1.77	271	13
Apr. 11-20	82.7	154	18	.05	261	40	48	3.6	126	701	63	.5	1.0	.0	1,198	1.63	268	12
Apr. 21-30	81.9	145	18	.04	247	37	47	3.0	129	648	59	.4	1.5	.0	1,124	1.53	249	12
May 1-7	21.3	137	34	.06	216	37	49	5.0	83	625	58	.3	2.0	.1	1,067	1.45	61	14
May 8-10	65.7	95.2	27	-	150	21	29	4.2	86	393	29	-	1.0	.1	697	.95	124	13
May 11-20	78.3	87.0	17	.04	137	19	25	4.0	98	345	26	.2	.5	.0	622	.85	131	12
May 21-31	3,065	76.8	16	.05	120	16	22	3.6	102	281	25	.2	1.5	.0	536	.73	4,440	13
June 1-5, 7, 8, 10	4,766	68.5	14	.05	107	14	19	3.2	97	249	17	.2	2.5	.1	474	.64	6,100	12
June 11-20	1,319	69.6	13	.05	114	14	14	2.8	97	263	14	.3	1.5	.1	484	.66	1,723	9
June 21-30	1,165	70.4	13	.04	112	13	18	2.8	96	262	16	.2	2.0	.0	486	.66	1,528	12
July 1-10	206	74.6	12	-	117	16	17	2.8	101	277	18	.2	.0	.0	510	.69	284	10
July 11-20	1,875	73.4	13	.06	118	16	20	2.1	96	281	18	.4	.8	.6	517	.70	2,620	11
July 21-31	628	74.7	12	.07	122	15	19	1.9	98	285	18	.4	1.4	.4	523	.71	887	11
Aug. 1-10	264	76.4	12	.06	122	16	20	1.9	100	295	18	.3	1.4	.6	536	.73	362	11
Aug. 11-20	633	77.1	10	.07	124	16	22	2.1	106	300	19	.3	1.0	.6	547	.74	935	12
Aug. 21-31	1,336	80.2	13	.05	131	16	22	3.8	105	312	20	.1	.6	.2	570	.78	2,056	12
Sept. 1-10	166	85.1	13	.05	136	19	26		106	337	24	.1	1.0	.3	608	.83	273	12
Sept. 11-20	151	82.9	12	.05	138	16	25		112	326	22	.1	1.0	.5	595	.81	243	12
Sept. 21-30	8,050	65.5	10	.06	103	12	21	2.7	94	246	15	.1	1.2	.3	457	.62	9,930	14

Pecos River near Acme, N. Mex.

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Specific conductance (K x 10^6 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Percent sodium
Oct. 1-10, 1940	2.4	375	16	0.10	482	107	308	11	90	1,565	442	-	0.5	0.4	2,980	4.05	19	29
Oct. 11-20	17.1	295	15	.09	418	86	200		91	1,305	283	-	.0	.2	2,352	3.20	109	24
Oct. 21-30	9.9	351	16	.15	468	99	273		96	1,470	397	-	.5	.3	2,770	3.77	74	27
Nov. 3-9	7.2	387	13	-	508	114	311		107	1,628	447	-	.5	-	3,070	4.18	60	28
Nov. 11-15	3.7	495	12	-	540	133	496		116	1,714	775	-	.5	-	3,730	5.07	37	36
Nov. 21-22	4.6	506	-	-	-	-	-		-	-	840	-	-	-	-	-	-	-
Nov. 23-24	23.0	773	-	-	-	-	-		-	-	1,410	-	-	-	-	-	-	-
Nov. 25-30	18.1	363	17	-	396	95	338		86	1,295	493	-	.5	-	2,680	3.64	131	35
Dec. 1-8	8.0	528	15	-	516	128	595		111	1,653	918	-	.5	-	3,880	5.28	84	42
Dec. 11-20	8.1	589	13	-	544	137	703		109	1,745	1,094	-	.5	-	4,290	5.83	94	44
Dec. 21-24	5.8	604	-	-	550	140	720		107	1,776	1,118	-	.5	-	4,360	5.93	68	45
Dec. 26-31	2.3	855	13	-	646	187	1,167		122	2,048	1,905	-	.5	-	6,030	8.20	37	52
Jan. 1-10, 1941	2.7	876	14	-	656	192	1,268		109	2,117	2,050	-	.0	-	6,350	8.63	46	53
Jan. 11-20	8.9	673	14	-	596	157	866		122	1,878	1,390	-	.5	-	4,960	6.75	119	47
Jan. 21,23,25-29	2.8	1,110	-	-	716	222	1,760		161	2,267	2,860	-	.0	-	7,900	10.7	60	59
Jan. 22,24,30,31	3.6	869	-	-	660	183	1,232		148	2,066	1,990	-	.0	-	6,200	8.43	60	53
Feb. 1-10	7.6	699	16	-	604	181	877		122	1,908	1,410	-	.50	-	5,040	6.85	103	47
Feb. 11	2.6	814	14	-	640	180	1,080		125	2,031	1,750	-	.50	-	5,760	7.83	40	50
Feb. 12-15	.5	1,600	15	-	834	303	2,710		154	2,710	4,440	-	1.2	-	11,090	15.1	15	64
Feb. 16-20	.4	2,272	16	-	974	419	4,190		189	3,140	6,970	-	.74	-	15,800	21.5	17	69
Feb. 21-23	1.3	2,249	16	-	935	419	4,110		162	3,030	6,880	-	.50	-	15,470	21.0	54	69
Feb. 24-25	3.0	1,345	14	-	770	271	2,200		155	2,417	3,670	-	.75	-	9,420	12.3	76	61
Feb. 26-28	7.7	703	10	-	642	168	877		128	2,051	1,390	-	.50	-	5,200	7.07	108	45
Mar. 1-10	27.1	413	12	-	585	117	326		118	1,798	482	-	.75	-	3,380	4.60	247	26
Mar. 11, 13-20	993	303	18	-	526	88	157		119	1,533	228	-	2.0	-	2,610	3.55	7,000	17
Mar. 21-24, 28-31	677	302	15	-	459	76	184		113	1,303	288	-	3.0	-	2,384	3.24	4,360	22
Mar. 25-27	1,241	199	15	-	304	41	115		90	839	162	-	1.8	-	1,522	2.07	5,100	21
Apr. 1-10	66.1	350	22	-	491	91	258		88	1,479	388	-	1.5	-	2,770	3.77	494	26
Apr. 11-20	46.0	325	19	-	449	86	230		107	1,353	345	-	1.0	-	2,340	3.45	315	25
Apr. 21-26	132	367	16	-	487	98	293		119	1,463	450	-	1.0	-	2,670	3.90	1,025	28
Apr. 27-30	4,658	195	17	-	288	35	112		94	751	173	-	2.5	-	1,425	1.94	17,900	22
May 1	2,230	274	17	-	290	46	263		104	774	420	-	2.0	-	1,863	2.53	11,200	39
May 2-3	12,310	150	15	-	234	27	65		106	574	107	-	2.0	-	1,076	1.46	35,800	17
May 4-5	1,295	246	15	-	341	43	161		98	902	285	-	1.5	-	1,817	2.47	6,350	28
May 6-11	274	406	19	-	526	100	331		113	1,485	570	-	1.0	-	3,090	4.20	2,290	29
May 12-14	1,023	199	15	-	265	41	140		105	744	192	-	2.5	-	1,451	1.97	4,010	27
May 17	118	544	-	-	-	-	-		-	1,080	-	-	-	-	-	-	-	-
May 15-16, 18-21	121	345	16	-	434	87	283		120	1,261	456	-	1.0	-	2,600	3.54	848	30
May 22-23	2,280	203	11	-	270	33	153		78	713	238	-	2.0	-	1,458	1.98	8,980	29
May 24	13,900	115	13	-	177	21	45		96	436	65	-	2.0	-	806	1.10	30,200	16
May 25-31	4,233	150	14	-	242	31	62		104	636	84	-	2.0	-	1,122	1.53	12,800	16

June 1-4, 1941	2,160	140	16	-	222	28	62	99	592	74	-	1.5	-	1,046	1.42	6,100	17
June 5	6,650	156	21	-	268	32	60	104	720	68	-	2.0	-	1,222	1.66	21,900	14
June 6	16,000	206	20	-	356	44	92	105	994	105	-	1.5	-	1,664	2.26	71,900	16
June 7-10	1,590	169	18	-	276	35	75	96	750	96	-	2.0	-	1,299	1.77	5,580	16
June 11-20	1,527	144	19	-	221	29	67	103	589	83	-	1.5	-	1,060	1.44	4,370	18
June 21-30	1,265	121	19	-	194	24	48	101	498	60	-	1.2	-	894	1.22	3,050	15
July 1-10	415	170	16	-	245	36	101	100	677	135	-	2.0	-	1,261	1.71	1,412	22
July 11-20	2,480	153	13	-	236	31	74	98	639	93	-	1.5	-	1,136	1.54	7,610	18
July 21-31	545	157	12	-	228	31	86	102	605	120	-	.75	-	1,133	1.54	1,666	21
Aug. 1-10	263	171	15	0.06	246	38	97	106	687	130	0.2	.8	0.5	1,268	1.72	902	21
Aug. 11-20	588	145	16	-	206	32	82	101	567	106	-	1.0	-	1,060	1.44	1,683	22
Aug. 21-31	1,271	126	14	-	201	26	53	108	530	58	-	1.2	-	936	1.27	3,210	16
Sept. 1-10	340	164	12	-	247	39	83	108	671	120	-	.5	-	1,226	1.67	1,124	19
Sept. 11-16,18-20	105	239	19	-	325	63	152	105	953	228	-	.8	-	1,792	2.44	508	24
Sept. 21-30	10,130	198	18	-	331	42	90	103	894	126	-	2.0	-	1,554	2.11	42,500	16
Pecos River at gaging station near Acme, N. Mex.																	
Feb. 21, 1941	-	1,724	-	-	855	327	2,870	127	2,720	4,810	-	-	-	11,640	15.8	-	64
Feb. 21-23,25,26,28	-	1,386	-	-	767	270	2,238	143	2,455	3,700	-	-	-	9,500	12.9	-	62
Mar. 1-7	-	427	-	-	582	122	346	127	1,822	500	-	-	-	3,430	4.66	-	28
Mar. 3-6	-	414	-	-	594	119	304	110	1,806	470	-	-	-	3,350	4.56	-	25
Pecos River 100 yards above junction with Rio Hondo, near Roswell, N. Mex.																	
Feb. 21, 22, 1941	-	914	-	-	504	141	1,474	221	1,608	2,260	-	-	-	6,100	8.30	-	64
Feb. 21-28	-	990	-	-	520	154	1,634	229	1,700	2,500	-	-	-	6,620	9.00	-	65
Mar. 1-7	-	688	-	-	560	141	934	170	1,793	1,420	-	-	-	4,930	6.70	-	51
Mar. 4-7	-	636	-	-	562	131	797	165	1,760	1,210	-	-	-	4,540	6.17	-	47
Pecos River near Dexter, N. Mex.																	
Feb. 22, 23, 1941	-	618	-	-	444	156	831	222	1,493	1,290	-	-	-	4,320	5.88	-	51
Feb. 21-28	-	670	-	-	446	170	915	224	1,565	1,410	-	-	-	4,620	6.28	-	52
Mar. 1-8	-	605	-	-	498	157	756	188	1,687	1,150	-	-	-	4,340	5.90	-	47
Mar. 5-8	-	548	-	-	508	147	641	186	1,663	980	-	-	-	4,030	5.48	-	43
Pecos River near Hagerman, N. Mex.																	
Feb. 22, 23, 1941	-	599	-	-	458	194	723	162	1,674	1,160	-	-	-	4,290	5.83	-	45
Feb. 21-23, 25-28	-	639	-	-	466	204	793	183	1,714	1,270	-	-	-	4,540	6.17	-	46
Mar. 1-8, 10	-	621	-	-	512	197	741	188	1,821	1,170	-	-	-	4,530	6.16	-	44
Mar. 5-8, 10	-	560	-	-	526	183	614	186	1,806	970	-	-	-	4,190	5.70	-	39
Pecos River near Lake Arthur, N. Mex.																	
Feb. 22-24, 1941	-	686	-	-	484	208	890	158	1,765	1,440	-	-	-	4,860	6.61	-	48
Feb. 21-28	-	698	-	-	472	208	926	161	1,770	1,470	-	-	-	4,930	6.70	-	50
Mar. 1-8, 10	-	721	-	-	526	213	928	167	1,903	1,480	-	-	-	5,130	6.98	-	48
Mar. 6-8, 10	-	642	-	-	540	194	771	161	1,878	1,230	-	-	-	4,690	6.38	-	44

Pecos River near Artesia, N. Mex.

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Specific conductance (K x 10^6 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Percent sodium
Oct. 1-10, 1940	43.8	689	24	0.09	502	206	881	8.8	124	1,839	1,395	0.8	0.5	0.8	4,920	6.69	582	48
Oct. 11-20	76.1	638	21	.07	464	183	803	15	150	1,667	1,276	.8	2.5	.9	4,510	6.13	927	48
Oct. 21-31	71.5	621	21	.08	484	184	740	16	158	1,714	1,189	.8	1.5	.9	4,430	6.02	855	45
Nov. 1-10	72.1	635	32	.06	474	193	765	18	123	1,747	1,235	1.0	3.0	.5	4,530	6.16	882	46
Nov. 11-20	89.7	639	30	.10	478	188	787	11	152	1,695	1,270	.8	3.5	.5	4,540	6.17	1,100	47
Nov. 21-30	130	617	28	.06	458	171	762	17	159	1,574	1,240	1.0	3.0	.3	4,330	5.89	1,517	48
Dec. 1-10	125	592	25	.06	454	168	705	11	156	1,564	1,145	.8	3.0	.4	4,150	5.64	1,405	46
Dec. 11-20	96.2	663	24	.05	482	189	839	14	168	1,727	1,333	.8	3.0	.7	4,690	6.38	1,218	48
Dec. 21-31	93.5	673	24	.06	508	192	840	14	191	1,768	1,330	.8	2.5	.7	4,770	6.49	1,204	47
Jan. 1-10, 1941	90.5	663	31	.05	496	211	825	7.2	151	1,793	1,360	.2	3.0	2.0	4,800	6.53	1,173	46
Jan. 11-20	90.8	697	27	.03	522	210	875	6.4	178	1,826	1,430	.2	5.8	2.5	4,990	6.79	1,223	47
Jan. 21-31	95.7	686	24	.03	516	209	862	7.2	192	1,802	1,420	.3	3.0	2.0	4,940	6.72	1,276	47
Feb. 1-10	95.6	709	19	.07	502	213	863	19	178	1,826	1,435	1.0	2.0	.4	4,990	6.79	1,288	48
Feb. 11-20	92.0	704	18	-	508	212	875	21	165	1,858	1,410	1.0	1.0	.4	5,000	6.80	1,242	47
Feb. 21-28	92.5	700	20	.08	488	211	870	16	179	1,822	1,373	.9	1.5	.4	4,890	6.65	1,221	48
Mar. 1-10	97.4	706	16	.04	528	219	872	16	182	1,956	1,395	1.1	2.5	.4	5,100	6.94	1,341	46
Mar. 11-15	301	627	18	.05	544	194	713	18	184	1,901	1,132	-	3.0	.4	4,610	6.27	3,740	42
Mar. 16-20	1,852	338	15	-	512	94	216	9.6	139	1,531	307	.5	2.0	.3	2,760	3.75	13,800	22
Mar. 21-31	1,181	368	12	.09	448	99	305	11	130	1,386	465	.5	1.5	.3	2,790	3.79	8,900	31
Apr. 2-10	182	558	17	.06	528	176	601	19	167	1,809	943	.8	2.5	.2	4,180	5.68	2,053	39
Apr. 11-20	115	613	23	.04	536	183	708	10	151	1,886	1,090	1.0	1.5	.3	4,510	6.13	1,405	43
Apr. 21-26	96.0	645	20	-	528	203	744	20	160	1,883	1,206	.7	2.5	.4	4,690	6.38	1,216	43
Apr. 27	2,050	451	15	-	496	100	468		128	1,500	708	-	2.5	-	3,350	4.56	18,540	38
Apr. 28	7,070	279	12	.04	377	52	222	7.6	92	1,073	317	.4	2.5	-	2,109	2.87	40,300	30
Apr. 29	5,030	286	13	-	375	52	236	6.6	99	1,058	344	-	2.0	.3	2,135	2.90	29,000	31
Apr. 30	3,360	268	12	-	361	50	204	5.8	99	1,014	298	.5	2.0	.4	1,996	2.71	18,110	29
May 1	1,210	262	13	-	324	56	217	5.2	101	927	321	-	2.5	.0	1,916	2.61	6,260	32
May 2	4,720	327	13	-	384	71	292	12	107	1,118	449	-	1.5	.2	2,393	3.25	30,500	34
May 3	7,550	263	13	-	436	49	154	7.8	83	1,217	212	-	1.5	.3	2,131	2.90	43,400	21
May 4	7,060	278	12	-	373	51	220	7.2	95	1,045	318	.4	2.0	.1	2,075	2.82	39,600	30
May 5	3,180	319	13	-	366	69	290	9.2	113	1,073	442	-	2.0	.4	2,320	3.16	19,920	35
May 6	1,620	394	16	-	418	92	389	12	116	1,272	607	-	2.5	.3	2,870	3.90	12,550	38
May 7-10	688	451	17	.07	464	122	461	12	153	1,434	734	.6	2.5	.2	3,320	4.52	6,170	38
May 11-13	1,163	442	20	.06	476	121	414	19	140	1,468	685	.6	1.0	.8	3,270	4.45	10,270	35
May 14-16	747	338	17	.04	378	91	290	14	122	1,165	459	.7	3.5	.8	2,478	3.37	5,000	33
May 17-20	467	427	21	.04	404	129	436	14	134	1,332	709	.7	3.5	.8	3,120	4.24	3,940	39
May 21	930	196	13	-	167	41	180	9.2	99	470	290	-	-	-	1,219	1.66	3,060	41
May 22, 23	4,945	249	15	.05	305	54	196	6.2	86	865	290	.4	2.5	.4	1,797	2.44	23,990	31
May 24	6,790	170	16	.05	200	38	122	5.8	80	571	178	.3	2.0	.4	1,173	1.60	21,500	29
May 25, 26	6,790	243	15	-	349	50	165	5.4	98	986	227	-	2.0	.3	1,848	2.51	33,900	25
May 27-29	4,120	266	17	-	368	66	182	6.2	117	1,069	259	.5	2.5	.3	2,028	2.76	22,560	25
May 30	3,850	240	18	-	327	57	164	5.0	116	949	229	-	3.0	-	1,809	2.46	18,800	26
May 31	3,850	206	16	-	271	48	140	5.4	112	760	203	-	3.5	.5	1,502	2.04	15,610	26

June 1-6	3,503	242	15	-	346	57	158	4.6	114	984	222	-	2.0	0.2	1,845	2.51	17,450	24
June 7-10	3,848	286	14	-	436	67	181	7.6	118	1,243	264	0.7	2.0	.2	2,273	3.09	23,610	23
June 11-20	1,725	255	25	0.07	333	64	179	10	109	961	274	.4	4.5	.8	1,905	2.59	8,870	27
June 21-27	1,371	222	29	.07	297	59	144	9.2	108	856	222	.4	5.2	.5	1,675	2.28	6,200	25
June 28-29	925	272	31	-	314	70	215		108	916	350	.4	4.0	-	1,954	2.66	4,880	30
June 30	1,880	203	28	-	270	47	135		116	759	193	.4	4.5	-	1,494	2.03	7,580	25
July 1-5	1,059	221	25	.08	274	53	153	9.6	110	788	240	.3	3.5	.3	1,601	2.18	4,580	28
July 6-10	422	358	22	-	358	100	336		125	1,115	544	.5	4.5	-	2,540	3.45	2,890	36
July 11, 12	300	495	24	-	446	153	523		120	1,468	885	.4	4.0	-	3,560	4.84	2,880	39
July 13	2,250	269	20	-	339	56	214		107	976	308	.4	2.5	-	1,969	2.68	11,960	30
July 14	3,010	188	20	-	255	40	120		101	712	166	.4	4.0	-	1,367	1.86	11,110	25
July 15, 16	5,955	234	17	.08	406	48	110	7.2	108	1,111	140	.3	1.8	1.0	1,825	2.58	30,500	17
July 17-18	2,590	210	17	-	346	43	113		111	966	133	.4	2.2	-	1,675	2.28	11,710	19
July 19, 20	758	253	-	-	347	62	175		121	995	258	.4	2.0	-	1,899	2.58	3,880	25
July 21-23	783	352	17	.07	382	89	330	8.4	129	1,137	528	.4	3.0	.8	2,560	3.48	5,410	36
July 24	2,240	300	15	-	348	71	255		123	1,021	388	.4	2.2	-	2,161	2.94	13,070	32
July 25-26	1,530	209	16	-	273	51	137		111	780	201	.3	2.5	-	1,516	2.06	6,260	25
July 27-31	705	304	16	.07	331	82	258	9.6	135	982	418	.5	3.5	1.0	2,167	2.95	4,120	33
Aug. 1-3	510	370	17	.07	374	105	343	10	155	1,151	564	.5	3.2	.5	2,640	3.59	3,640	36
Aug. 4-6	723	271	20	-	302	72	220		134	879	354	.5	2.8	-	1,916	2.61	3,740	31
Aug. 7-10	288	388	-	-	358	111	397		136	1,137	648	.5	2.5	-	2,720	3.70	2,117	39
Aug. 11-14	770	424	21	-	373	111	465		126	1,198	740	.5	3.5	-	2,970	4.04	6,170	42
Aug. 14	1,610	133	11	-	138	32	99		114	370	150	-	2.5	-	859	1.17	-	31
Aug. 15-20	856	262	16	.09	289	70	211	8.4	130	861	324	.4	2.8	1.2	1,847	2.51	4,270	32
Aug. 21-28	1,171	215	15	.06	281	55	138	4.4	121	801	211	.3	2.8	.3	1,568	2.13	4,960	25
Aug. 29-31	1,615	264	15	.07	336	67	202		129	968	310	-	3.5	.8	1,965	2.67	8,570	28
Sept. 1-10	639	271	15	.06	311	74	215	4.8	126	926	340	.4	3.5	.8	1,952	2.65	3,370	30
Sept. 11-20	300	524	22	.07	442	156	586	9.6	127	1,501	960	.4	3.0	1.0	3,740	5.09	3,030	42
Sept. 21	3,880	274	14	-	231	59	292		124	670	462	.3	3.5	.8	1,793	2.44	18,780	44
Sept. 22, 23	9,745	130	12	.06	142	26	95	3.8	108	369	141	.1	2.5	.5	845	1.15	22,230	31
Sept. 24	14,700	229	12	.08	361	49	133	6.4	105	1,012	179	.3	2.5	.8	1,807	2.46	71,700	21
Sept. 25, 26	17,250	266	11	.05	433	59	147	7.2	116	1,220	204	.3	2.5	1.0	2,141	2.91	99,700	20
Sept. 27, 28	4,370	315	15	.07	421	77	240	6.4	137	1,218	366	.4	3.5	.8	2,415	3.28	28,500	28
Sept. 29, 30	9,030	239	10	.08	307	51	173	6.0	120	857	264	.3	3.5	.5	1,731	2.35	42,200	28
Weighted average	1,075	284	16	.06	360	69	224	7.7	116	1,055	338	.2	2.7	-	2,128	2.89	6,180	30

Pecos River at Carlsbad, N. Mex.

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Specific conductance (K x 10^5 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Percent sodium
Oct. 1-10, 1940	62.4	388	27	0.09	374	142	365		107	1,355	575	-	2.0	0.5	2,890	3.93	487	34
Oct. 11-20	114	318	19	.10	316	112	276		140	1,062	445	-	2.5	.5	2,302	3.13	709	32
Oct. 21-31	65.5	366	25	.10	368	133	325		144	1,254	528	1.0	2.5	.3	2,710	3.69	479	33
Nov. 1-9	68.0	392	22	-	384	146	345		137	1,343	565	-	3.5	-	2,880	3.92	529	33
Nov. 11-20	64.8	389	19	-	382	142	350		151	1,327	560	-	3.5	-	2,860	3.89	500	33
Nov. 21-30	58.8	385	20	-	386	138	343		159	1,317	548	-	2.5	-	2,830	3.85	449	33
Dec. 1-10	66.9	394	18	-	400	140	348		179	1,342	557	-	3.0	-	2,900	3.94	524	32
Dec. 11-20	88.0	384	24	-	410	133	355		139	1,383	557	-	2.8	-	2,930	3.98	696	33
Dec. 21-31	127	397	28	-	426	136	364		141	1,428	575	-	2.0	-	3,030	4.12	1,036	33
Jan. 1-10, 1941	98.8	405	22	-	426	144	380		143	1,449	605	-	2.5	-	3,100	4.22	827	33
Jan. 11-20	89.6	414	19	-	408	151	379		127	1,452	598	-	3.5	-	3,070	4.18	743	33
Jan. 21-31	86.6	410	19	-	404	149	377		133	1,429	596	-	3.5	-	3,040	4.13	711	34
Feb. 1-10	83.2	403	17	-	406	148	362		157	1,406	578	-	3.0	-	3,000	4.08	674	33
Feb. 11-20	54.0	407	16	-	418	148	364		180	1,417	580	-	3.0	-	3,030	4.12	442	32
Feb. 21-28	77.9	390	24	-	386	138	352		122	1,355	555	-	3.5	-	2,870	3.90	604	33
Mar. 1-10	56.4	397	22	-	390	144	362		128	1,374	578	-	2.0	-	2,940	4.00	448	33
Mar. 11-20	65.1	377	18	-	382	131	334		122	1,315	530	-	2.5	-	2,770	3.77	487	33
Mar. 21-31	96.4	384	17	-	416	128	331		148	1,361	528	-	1.5	-	2,860	3.89	744	32
Apr. 1-10	70.2	395	16	-	434	139	308		137	1,365	560	-	2.5	-	2,890	3.93	548	29
Apr. 11-20	71.8	389	19	-	424	135	316		171	1,343	540	-	2.0	-	2,860	3.89	554	30
Apr. 21-30	70.2	389	16	-	440	133	303		184	1,323	550	-	1.5	-	2,860	3.89	542	29
May 1, 10:29 a.m.	-	376	-	-	408	121	321		147	1,310	516	-	2.0	-	2,750	3.74	-	32
May 1, 11:40 a.m.	-	375	-	-	418	121	312		161	1,307	514	-	2.0	-	2,750	3.74	-	31
May 1, 12:35 p.m.	-	357	-	-	402	113	289		131	1,254	484	-	1.5	-	2,610	3.55	-	30
May 1, 1:10 p.m.	-	424	-	-	498	137	356		167	1,533	600	-	2.0	-	3,210	4.37	-	30
May 1, 3:00 p.m.	-	468	-	-	560	140	414		134	1,732	680	-	1.0	-	3,590	4.88	-	31
May 1, 6:00 p.m.	-	449	-	-	530	134	395		137	1,656	635	-	1.0	-	3,420	4.65	-	31
May 1	2,200	436	13	-	502	123	402		125	1,598	615	-	1.0	-	3,320	4.52	19,720	33
May 2, 12:15 a.m.	-	420	-	-	504	123	352		130	1,547	575	-	1.5	-	3,180	4.32	-	30
May 2, 3:06 a.m.	-	177	-	-	203	45	128		100	568	208	-	3.4	-	1,205	1.64	-	29
May 2, 1:30 p.m.	-	246	-	-	288	63	192		90	864	298	-	1.6	-	1,751	2.38	-	30
May 2, 9:45 p.m.	-	300	-	-	368	78	236		97	1,104	364	-	2.5	-	2,198	2.99	-	29
May 2	12,300	262	11	-	296	64	216		108	894	320	-	.5	-	1,855	2.52	61,600	32
May 3-4	4,645	345	10	-	410	86	301		107	1,267	442	-	1.0	-	2,570	3.50	32,200	32
May 5-6	8,185	314	10	-	397	66	266		102	1,184	372	-	1.0	-	2,346	3.19	51,800	31
May 7-8	4,225	294	11	-	414	54	227		102	1,188	304	-	.5	-	2,249	3.06	25,700	28
May 9-10	676	316	10	-	422	68	244		103	1,224	358	-	.5	-	2,377	3.23	4,340	29

May 11-20	870	358	13	-	464	96	279		125	1,332	475	-	1.0	-	2,720	3.70	6,390	28
May 21	1,590	385	-	-	462	99	341		116	1,395	535	-	.75	-	2,890	3.93	12,410	32
May 22, 7:00 a.m.	-	64.9	-	-	88	17	9.0		106	157	40	-	2.5	-	360	.49	-	6
May 22	18,300	138	-	-	160	35	90		76	437	156	-	2.0	-	917	1.25	45,300	26
May 23, 8:40 p.m.	-	170	-	-	184	40	132		98	525	200	-	1.5	-	1,131	1.54	-	31
May 23	8,600	223	12	-	279	54	184	4.0	95	722	276	-	3.0	-	1,541	2.10	35,800	33
May 24	7,920	224	12	-	239	54	187		101	723	276	-	1.0	-	1,542	2.10	33,000	33
May 25-27	13,533	234	11	-	270	57	186	4.4	88	823	272	-	1.5	-	1,668	2.27	60,900	31
May 28, 29	9,125	232	11	-	300	51	171		97	872	242	-	1.0	-	1,696	2.31	41,800	28
May 30, 31	7,780	213	12	-	272	50	151		99	806	206	-	2.5	-	1,548	2.11	32,500	27
June 1-10	4,748	262	20	-	352	70	178		91	1,042	278	-	1.8	-	1,987	2.70	25,500	25
June 11-14	2,323	304	21	-	440	80	199		92	1,324	286	-	2.0	-	2,397	3.26	15,030	23
June 15	4,440	223	16	-	310	57	143		104	901	208	-	3.5	-	1,690	2.30	20,260	24
June 16-20	1,575	305	18	-	401	82	222		82	1,235	330	-	2.0	-	2,330	3.17	9,910	26
June 21-30	1,375	308	22	-	388	85	240		89	1,205	362	-	1.8	-	2,348	3.19	8,720	28
July 4-10	750	315	22	-	377	90	253		78	1,200	388	-	1.5	-	2,370	3.22	4,800	30
July 11-15	638	362	23	-	411	111	309		136	1,309	482	-	1.5	-	2,710	3.69	4,670	31
July 16-20	3,456	278	17	-	365	70	206		116	1,072	308	-	1.2	-	2,096	2.85	19,560	27
July 21-31	550	314	18	-	406	86	240		125	1,232	356	-	1.2	-	2,401	3.27	3,570	28
Aug. 1-10	192	359	22	-	413	111	299		111	1,327	470	-	2.0	-	2,700	3.67	1,396	30
Aug. 11-17	319	373	22	-	415	118	315		125	1,340	500	-	2.2	-	2,770	3.77	2,388	31
Aug. 18-20	1,225	335	17	-	396	92	279		121	1,212	434	-	.75	-	2,490	3.39	8,240	31
Aug. 21-31	1,126	315	18	0.06	362	90	264		114	1,123	415	-	1.5	-	2,330	3.17	7,090	31
Sept. 1-10	682	306	18	.06	366	87	249		127	1,123	382	-	2.0	-	2,290	3.11	4,220	30
Sept. 11-19	317	343	20	.06	408	107	285		156	1,269	445	-	1.2	-	2,610	3.55	2,233	30
Sept. 20, 3:00 p.m.	-	370	-	-	-	-	-		-	-	475	-	-	-	-		-	-
Sept. 20,10:00 p.m.	-	26.9	-	-	-	-	-		155	-	-	-	-	-	-		-	-
Sept. 21	15,000	344	-	-	-	-	-		131	-	430	-	-	-	-	-	-	-
Sept. 22, 23	15,950	173	13	.05	184	45	126	5.2	93	539	203	-	1.4	0.4	1,162	1.58	50,000	30
Sept. 24, 25	19,900	114	11	.05	124	27	80	4.8	111	332	116	-	1.8	.3	751	1.02	40,400	30
Sept. 26-30	15,586	240	12	.06	374	54	141	4.4	114	1,062	190	-	1.2	.6	1,895	2.58	79,700	21
Weighted average	1,364	253	15	.06	320	65	190		105	953	282	-	1.5	-	1,878	2.55	6,910	28

Pecos River near Malaga, N. Mex.

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Specific conductance (K x 10^5 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Percent sodium
Oct. 1-10, 1940	126	624	22	0.06	502	201	711	22	107	1,852	1,158	0.8	3.7	0.7	4,530	6.16	1,539	43
Oct. 12	145	614	-	-	-	-	-	-	-	-	1,120	-	-	-	-	-	-	-
Oct. 13-17	691	212	9	.07	184	55	197	7.0	101	551	319	.4	3.0	.3	1,375	1.87	2,570	39
Oct. 18-20	141	420	11	.06	298	119	480	18	160	1,011	790	-	3.7	.9	2,810	3.82	1,070	46
Oct. 21-31	140	530	15	.09	430	165	589	18	169	1,493	962	.6	4.1	.6	3,760	5.11	1,416	43
Nov. 1-10	117	604	18	.08	484	197	683	23	161	1,730	1,130	.8	5.2	.8	4,350	5.92	1,371	43
Nov. 11-20	116	604	21	.08	488	198	682	21	164	1,756	1,115	.8	5.0	.8	4,370	5.94	1,366	43
Nov. 21-30	111	602	21	.05	486	196	671	17	135	1,745	1,112	.4	4.8	1.0	4,320	5.88	1,292	42
Dec. 1-10	114	599	21	.04	488	193	659	20	148	1,733	1,091	.6	4.5	.9	4,280	5.82	1,317	42
Dec. 11-20	150	550	21	.04	470	184	576	22	149	1,667	955	.6	4.2	.9	3,970	5.40	1,613	40
Dec. 21-31	167	514	21	.05	475	173	556	8.8	120	1,663	910	.4	4.0	1.0	3,870	5.26	1,746	39
Jan. 1-10, 1941	152	515	22	.04	469	172	558	8.0	129	1,689	910	.2	4.0	.5	3,920	5.33	1,603	39
Jan. 11-20	169	518	20	.06	505	176	534	8.8	169	1,691	890	.2	3.0	1.0	3,910	5.32	1,785	37
Jan. 21-31	140	535	17	.06	501	181	579	7.2	181	1,708	945	.4	3.5	1.0	4,030	5.48	1,523	39
Feb. 1-3, 5-10	139	533	16	.06	474	180	561	22	169	1,663	920	.6	2.0	.3	3,920	5.33	1,469	39
Feb. 11-20	142	533	17	.06	484	179	545	21	171	1,674	900	.6	2.5	.4	3,910	5.32	1,496	38
Feb. 21-28	158	514	15	.07	472	174	519	23	138	1,654	860	.6	2.5	.4	3,790	5.15	1,612	38
Mar. 1-10	94.9	551	14	.07	488	176	584	29	169	1,692	954	.8	-	-	4,020	5.47	1,030	40
Mar. 11-20	102	595	14	.07	508	192	649	26	180	1,781	1,061	.8	3.0	.4	4,320	5.88	1,185	41
Mar. 21, 22, 24	162	532	14	-	472	182	553	21	173	1,651	916	-	3.5	.6	3,900	5.30	1,708	39
Mar. 25	714	191	10	-	284	46	96		87	768	165	-	4.3	.2	1,416	1.93	2,730	19
Mar. 26-31	193	418	12	.07	382	134	410	14	157	1,287	668	.8	2.0	.2	2,990	4.07	1,561	38
Apr. 1-10	99.3	508	12	.06	452	156	543	20	163	1,526	885	1.0	2.5	.2	3,680	5.00	987	41
Apr. 12-20	79.9	603	18	.06	516	190	671	18	133	1,821	1,094	.8	2.5	.3	4,400	5.98	949	42
Apr. 21-30	114	540	17	.10	496	177	559	14	142	1,710	920	.7	3.0	.2	3,970	5.40	1,218	39
May 1	404	541	-	-	-	-	-	-	-	-	960	-	-	-	-	-	-	-
May 2	13,700	210	16	-	229	52	158	11	107	679	246	-	2.5	.3	1,446	1.97	53,500	31
May 3	5,620	310	11	-	366	80	263		100	1,139	386	-	2.0	-	2,296	3.12	34,800	31
May 4-6, 9-10	4,355	341	13	.04	404	87	291	14	112	1,256	436	.5	1.5	.8	2,560	3.48	30,100	32
May 7-8	5,295	300	12	-	410	68	216	14	97	1,212	318	-	1.0	.3	2,299	3.13	32,900	27
May 11-12	2,035	294	11	-	341	76	228	10	101	1,035	362	-	2.5	.4	2,115	2.88	11,620	30
May 13-20	966	399	13	.05	426	111	367		120	1,333	587	.5	2.0	.5	2,900	3.94	7,560	34
May 21	715	387	18	-	394	101	389		106	1,258	600	-	2.0	-	2,810	3.82	5,420	38
May 22, 24	22,267	124	16	-	131	29	90		106	351	131	-	4.7	.5	805	1.09	48,400	30
May 25, 27, 29-31	11,867	209	16	.05	254	52	154	6.2	100	742	224	-	5.2	-	1,503	2.04	48,200	29

June 1,2,4-10	4,989	267	15	0.09	336	72	199	6.8	93	1,049	286	0.2	3.5	0.7	2,013	2.74	27,120	28
June 11-15, 17-20	2,496	342	19	.08	424	94	276	8.4	92	1,343	410	.4	2.5	.8	2,620	3.56	17,660	30
June 21-28	1,697	340	23	.07	404	96	272	8.0	87	1,261	438	.3	2.2	1.5	2,550	3.47	11,680	30
June 29, 30	608	392	-	-	426	110	373		123	1,347	582	-	2.5	-	2,900	3.94	4,765	35
July 1,2,6,7,9,10	643	396	24	.08	422	118	367	7.6	128	1,347	593	.4	2.5	1.6	2,940	4.00	5,100	34
July 3-5	1,450	343	21	-	398	103	280	7.2	79	1,279	451	.4	2.0	1.6	2,580	3.51	10,100	30
July 11-14	212	489	29	.10	460	146	509		127	1,529	820	.5	2.8	1.0	3,560	4.84	2,040	39
July 15-20	3,265	319	17	.07	381	89	252		122	1,159	394	.5	1.8	.6	2,354	3.20	20,750	29
July 21-31	636	404	20	.08	428	111	376		86	1,386	585	.6	2.2	.6	2,950	4.01	5,070	35
Aug. 1-6, 8-10	287	484	24	.07	468	155	487		109	1,585	795	.6	4.0	1.0	3,570	4.86	2,760	37
Aug. 11-20	693	451	19	.08	452	142	431		125	1,488	705	.5	3.5	.6	3,300	4.49	6,170	35
Aug. 21-31	1,333	375	17	.07	397	105	343		128	1,252	536	.5	2.2	1.0	2,720	3.70	9,790	34
Sept. 1-10	846	364	17	.06	389	103	332		142	1,219	516	.6	2.2	.6	2,650	3.60	6,060	34
Sept. 11-14, 16-18	383	435	18	.06	435	138	434		154	1,436	690	-	2.8	-	3,230	4.39	3,340	36
Sept. 19-20	1,095	192	-	-	261	60	98		132	744	161	-	2.8	-	1,392	1.89	4,120	19
Sept. 21, 22	20,650	63.3	14	-	72	18	29		131	143	43	-	.7	.2	384	.52	21,410	20
Sept. 23-25	19,867	118	11	-	129	30	77	4.0	115	331	126	-	1.8	.8	766	1.04	41,100	28
Sept. 26, 27	29,200	203	10	-	299	46	128	4.8	115	850	169	-	1.4	.5	1,565	2.13	123,400	23
Sept. 28-30	10,477	260	12	.06	411	59	154	5.6	114	1,174	208	-	1.2	.8	2,081	2.83	58,900	21
Weighted average	1,645	242	15	.06	285	65	192	7.5	111	859	292	.4	2.8	-	1,772	2.41	7,870	30

Pecos River at Pierce Canyon Crossing, near Malaga, N. Mex.

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Specific conductance (K x 10^6 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Percent sodium
Oct. 1-10, 1940	148	803	23	0.07	504	212	1,083	33	99	1,896	1,750	0.6	3.0	0.9	5,550	7.55	2,218	53
Oct. 11-13	776	699	16	-	482	186	903	34	132	1,722	1,469	-	3.6	.9	4,880	6.64	10,230	50
Oct. 14-17	414	280	8	.07	162	65	349	11	103	522	565	-	2.5	.5	1,735	2.35	1,942	54
Oct. 18-20	155	546	10	-	262	114	783	25	152	925	1,252	.6	2.5	.5	3,450	4.69	1,441	61
Oct. 21-31	151	686	15	.07	430	170	926	31	177	1,511	1,490	1.2	4.5	.9	4,670	6.35	1,956	54
Nov. 1-10	134	769	-	.08	480	204	1,054	31	160	1,776	1,690	.4	4.9	.5	5,320	7.24	1,931	52
Nov. 11-20	128	764	-	.07	494	205	1,020	33	158	1,814	1,640	.4	4.4	.3	5,290	7.19	1,834	51
Nov. 21-30	122	756	-	.04	480	205	1,003	35	127	1,799	1,620	.4	5.4	.9	5,210	7.09	1,713	51
Dec. 1-10	127	738	-	.04	484	201	986	31	136	1,779	1,595	.8	4.0	.8	5,150	7.00	1,767	51
Dec. 11-20	156	686	-	.04	468	195	871	29	136	1,725	1,410	.4	3.6	.9	4,770	6.49	2,012	49
Dec. 21-23, 25-31	166	625	22	.05	488	187	803	14	141	1,727	1,300	.2	4.0	2.5	4,610	6.27	2,060	47
Jan. 1-10, 1941	156	635	22	.06	496	181	820	14	135	1,737	1,320	.2	3.5	2.5	4,660	6.34	1,963	47
Jan. 11-20	173	625	17	.06	510	185	785	13	158	1,747	1,280	.2	3.5	2.0	4,620	6.28	2,157	45
Jan. 21-31	145	656	19	.05	514	192	828	14	170	1,771	1,350	.2	3.5	1.0	4,780	6.50	1,877	46
Feb. 1-3, 5-10	143	673	19	.07	484	188	837	26	180	1,702	1,355	.6	2.5	.4	4,700	6.39	1,817	47
Feb. 11-20	148	665	20	.08	488	190	821	27	174	1,715	1,338	.6	2.0	.4	4,690	6.38	1,868	47
Feb. 21-28	165	637	14	.07	476	179	773	29	139	1,697	1,245	.7	3.0	.4	4,490	6.11	2,003	46
Mar. 1-10	98.3	757	14	.07	490	190	1,023	35	163	1,755	1,637	.8	2.5	.5	5,230	7.11	1,388	52
Mar. 11-20	101	789	13	.08	502	200	1,098	34	174	1,816	1,751	.8	2.5	.4	5,500	7.48	1,498	53
Mar. 21, 22, 24	150	694	16	-	484	190	900	29	162	1,735	1,447	-	3.5	.4	4,880	6.64	1,980	49
Mar. 25	732	281	20	-	320	77	223		135	956	350	-	2.0	-	2,014	2.74	3,980	30
Mar. 26-31	208	530	12	.06	396	142	629	22	160	1,345	1,014	.5	7.0	-	3,650	4.96	2,047	46
Apr. 1-10	106	678	13	.09	442	164	911	27	162	1,557	1,442	1.2	2.5	.8	4,640	6.31	1,322	52
Apr. 12-20	76.0	855	14	.04	520	208	1,217	32	132	1,900	1,950	.7	2.5	.1	5,910	8.04	1,213	55
Apr. 21-30	121	721	16	.05	502	194	911	26	142	1,761	1,497	.7	2.0	.2	4,980	6.77	1,624	49
May 1	128	722	-	-	-	-	-	-	-	-	1,560	-	-	-	-	-	-	-
May 2-10	6,284	332	12	.05	392	82	282	12	105	1,205	426	.5	2.5	.3	2,466	3.35	41,800	32
May 2, 3	10,270	317	-	-	364	81	266		108	1,087	424	-	2.0	-	2,277	3.09	63,100	32
May 7-8	6,235	303	13	-	408	69	230	12	97	1,218	332	-	1.0	.5	2,331	3.17	39,200	27
May 4-6, 9-10	4,709	347	-	-	430	87	284		112	1,251	462	-	2.0	-	2,570	3.49	32,700	30
May 11-13	1,733	335	11	-	368	86	282	14	105	1,129	454	-	1.0	.5	2,397	3.26	11,200	32
May 14-20	950	456	13	.04	436	113	490		130	1,366	770	.5	1.0	.8	3,250	4.42	8,340	41
May 24	16,000	105	13	-	117	24	72		110	291	109	-	1.0	-	681	.93	29,400	29
May 25, 27	13,500	219	13	-	250	55	171		96	741	262	-	2.5	-	1,542	2.10	56,200	30

June 1,2,4,5,7,10	5,400	274	16	0.07	332	70	208	6.8	82	1,033	306	0.4	4.0	0.6	2,017	2.74	29,400	29
June 11-15, 17-20	2,474	370	18	.08	424	94	337	11	106	1,337	502	.4	3.5	1.8	2,780	3.78	18,600	33
June 21-28	1,741	381	20	.08	412	105	342	8.8	101	1,289	557	.4	2.2	1.2	2,790	3.79	13,100	34
June 29-30	532	492	-	-	400	116	625		75	1,358	961	-	6.0	-	3,500	4.76	5,030	48
July 1,2,6,7,9,10	696	477	21	.08	412	126	530	10	106	1,366	850	.4	3.0	1.4	3,370	4.58	6,330	42
July 3-5	1,430	381	22	-	404	106	362	8.0	103	1,307	562	.4	2.5	1.6	2,820	3.84	10,900	35
July 11-14	269	687	30	-	452	152	956		83	1,567	1,510	-	3.5	-	4,710	6.41	3,420	54
July 15-20	3,210	338	18	-	377	93	287		96	1,190	446	-	2.0	-	2,460	3.35	21,300	32
July 21,23-28,30,31	704	492	20	-	438	119	564		112	1,409	885	-	2.5	-	3,490	4.75	6,630	44
Aug. 1-6, 8-10	323	617	24	-	466	163	766		92	1,620	1,230	-	3.0	-	4,320	5.88	3,760	47
Aug. 11-16	310	595	23	-	432	145	776		130	1,458	1,230	-	3.5	-	4,130	5.62	3,450	50
Aug. 17-20	1,301	457	-	-	446	141	450		111	1,460	750	-	2.5	-	3,300	4.49	11,600	37
Aug. 21-31	1,194	429	21	-	400	109	460		122	1,276	720	-	3.0	-	3,050	4.15	9,830	41
Sept. 1-10	864	415	16	-	386	106	450		133	1,229	700	-	2.8	-	2,960	4.03	8,910	41
Sept. 11-14, 16-20	533	528	19	-	436	142	621		151	1,414	1,010	-	3.0	-	3,720	5.06	5,360	45
Sept. 21	22,000	43.3	12	-	58	14	20		172	68	23	-	.4	-	280	.38	16,600	17
Sept. 22, 23	21,500	109	10	-	115	28	74		116	298	111	-	1.6	-	695	.95	40,300	29
Sept. 24, 25	20,500	135	9.0	-	146	35	97		104	400	153	-	1.8	-	893	1.21	49,400	29
Sept. 26, 27	29,000	200	-	-	-	-	-		108	-	170	-	-	-	-	-	-	-
Sept. 28-30	12,000	263	-	-	-	-	-		120	-	214	-	-	-	-	-	-	-

Pecos River at Red Bluff, N. Mex.

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Specific conductance (K x 10^6 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Percent sodium
Oct. 1-10, 1940	141	782	24	0.07	518	213	1,046	31	124	1,911	1,703	0.8	3.5	0.9	5,510	7.49	2,100	52
Oct. 11-13	433	777	20	-	484	206	1,077	34	121	1,824	1,730	-	2.5	.6	5,440	7.40	6,360	54
Oct. 14-16	740	233	6.0	.06	145	53	275	11	95	475	432	.2	3.0	.1	1,447	1.97	2,890	51
Oct. 17-18	204	394	10	.06	192	83	555	16	120	655	875	-	3.0	.4	2,448	3.33	1,345	60
Oct. 19-20	149	548	-	-	248	108	811		134	886	1,270	-	3.5	.4	3,390	4.61	1,364	62
Oct. 21-31	146	693	20	.06	408	167	979	30	136	1,473	1,545	.4	3.5	.3	4,690	6.38	1,850	56
Nov. 1-10	128	791	21	.06	484	202	1,089	34	151	1,761	1,765	.4	4.6	.4	5,440	7.40	1,884	54
Nov. 11-20	125	785	20	.07	500	210	1,075	32	173	1,824	1,725	.8	4.0	.7	5,480	7.45	1,845	53
Nov. 21-30	118	805	23	.05	484	211	1,108	33	137	1,822	1,778	.6	3.5	.8	5,530	7.52	1,757	54
Dec. 1-10	125	788	22	.04	486	204	1,073	34	143	1,804	1,735	.4	2.5	.8	5,430	7.38	1,838	54
Dec. 11-20	156	709	21	.04	464	195	913	31	138	1,740	1,475	.4	2.5	.6	4,910	6.68	2,073	51
Dec. 21-31	169	652	20	.05	486	192	790	16	129	1,704	1,330	.4	3.5	1.5	4,610	6.27	2,101	46
Jan. 1-10, 1941	158	652	21	.05	496	192	814	14	143	1,728	1,340	.4	3.0	1.5	4,680	6.36	2,003	47
Jan. 11-20	173	655	17	.06	514	187	814	14	159	1,763	1,330	.2	3.5	2.5	4,720	6.42	2,205	47
Jan. 21-31	144	671	16	.05	514	199	848	15	167	1,788	1,400	.2	3.5	2.5	4,870	6.62	1,895	47
Feb. 1-10	129	692	15	.06	474	192	886	28	157	1,714	1,418	.6	2.5	.3	4,810	6.54	1,670	50
Feb. 11-20	151	696	15	.07	482	192	891	27	160	1,725	1,432	.6	2.0	.4	4,850	6.60	1,972	50
Feb. 21-28	141	655	16	.07	480	183	801	29	142	1,717	1,299	.8	2.5	.5	4,600	6.26	1,750	48
Mar. 1-10	96.0	771	14	.07	490	191	1,061	34	161	1,760	1,672	.7	2.0	.4	5,300	7.21	1,374	54
Mar. 11-20	98.3	870	12	.09	504	203	1,235	34	169	1,829	1,980	.8	2.0	.4	5,880	8.00	1,561	57
Mar. 21-24	157	732	16	-	466	194	971	30	154	1,699	1,568	.6	3.5	-	5,020	6.83	2,125	52
Mar. 25	689	497	17	-	358	133	590	19	136	1,230	950	-	2.0	-	3,370	4.58	6,270	48
Mar. 26	638	260	13	-	308	71	190	11	113	908	310	-	1.0	-	1,868	2.54	3,220	29
Mar. 27-31	178	544	16	.09	400	145	666	26	156	1,383	1,069	.4	2.0	-	3,780	5.14	1,819	48
Apr. 1-10	108	714	14	.09	424	166	993	33	147	1,516	1,588	1.2	1.5	.8	4,810	6.54	1,396	56
Apr. 11-20	80.7	916	14	.06	530	213	1,352	36	130	1,949	2,160	.6	1.5	.2	6,320	8.60	1,377	58
Apr. 21-30	142	794	12	.05	514	201	1,072	26	144	1,830	1,732	.7	1.5	.3	5,460	7.43	2,090	53
May 1	138	660	-	-	488	177	832		107	1,658	1,375	-	2.5	-	4,590	6.24	1,710	48
May 2	7,460	335	15	-	302	88	333	19	118	989	522	-	3.0	-	2,329	3.17	46,900	40
May 3	9,210	219	11	-	196	52	221	12	87	691	288	-	2.5	-	1,516	2.06	37,700	41
May 4-6	5,740	351	10	.04	402	90	293	16	107	1,228	470	-	2.0	.5	2,560	3.48	39,700	32
May 7-9	5,047	313	12	.05	406	71	247	15	99	1,216	356	-	1.5	.7	2,373	3.23	32,300	30
May 10	604	450	-	-	468	100	461		124	1,337	770	-	1.5	-	3,200	4.35	5,220	39
May 11	1,480	448	13	-	430	97	490		116	1,315	759	-	2.5	.3	3,160	4.30	12,630	42
May 12	2,150	242	11	-	266	56	195	11	97	791	304	-	-	-	1,682	2.29	9,760	33
May 13, 16	1,640	358	13	-	436	98	296		125	1,310	474	-	1.0	.5	2,690	3.66	11,910	30
May 14, 15	1,107	473	15	-	442	110	519		132	1,374	811	-	1.0	.8	3,340	4.54	10,350	42
May 17-20	702	515	16	.04	446	121	595		128	1,407	945	-	1.0	.4	3,590	4.88	6,800	45

May 21	477	508	15	-	370	106	670		132	1,164	1,060	-	2.5	-	3,450	4.69	4,440	52
May 22	14,800	152	17	0.05	139	34	133	6.6	101	388	202	-	2.5	-	972	1.32	38,800	38
May 23	27,700	87.2	10	.04	90	19	60	5.4	83	225	89	-	2.0	-	541	.74	40,500	31
May 24	30,200	145	15	-	300	16	29		66	737	40	-	1.5	0.1	1,171	1.59	95,500	7
May 25	11,000	206	14	-	221	52	168	6.6	99	648	260	-	2.5	.4	1,421	1.93	42,200	33
May 26, 27	13,950	249	14	.04	277	63	203	8.8	83	860	305	-	1.5	-	1,773	2.41	66,800	32
May 28	14,000	212	14	-	245	48	171		68	741	250	-	.5	-	1,503	2.04	56,800	31
May 29, 30	9,850	234	14	.04	291	55	175	5.8	82	874	249	-	3.5	-	1,708	2.32	45,400	29
May 31	8,080	201	14	-	262	45	131		99	736	195	-	2.5	-	1,434	1.95	31,300	25
June 1	8,320	176	14	-	215	42	127		97	634	174	-	-	-	1,254	1.71	28,200	28
June 2-10	4,882	273	19	.08	332	71	213	8.8	83	1,049	320	0.3	2.0	1.6	2,056	2.80	27,100	30
June 11-13	3,583	312	21	.07	414	82	244	8.0	78	1,302	346	.3	2.0	1.8	2,458	3.34	23,780	28
June 14-15	2,680	461	27	-	436	104	522	14	77	1,439	784	.4	1.5	1.4	3,370	4.58	24,390	43
June 16-20	2,180	355	21	.07	380	89	327	11	90	1,220	495	.2	2.5	1.6	2,590	3.52	15,240	36
June 21	1,100	539	-	-	430	119	643		65	1,449	991	-	1.0	-	3,660	4.98	10,870	47
June 22-28	1,977	381	24	.08	400	102	378	7.6	71	1,322	578	.3	2.0	1.0	2,850	3.88	15,210	37
June 29-30	610	644	30	.07	392	123	926	16	77	1,353	1,440	.4	1.2	1.4	4,320	5.88	7,120	58
July 1, 2, 6-10	780	525	34	.07	416	120	654	12	95	1,393	1,025	.5	3.0	1.4	3,700	5.03	7,800	48
July 3-5	1,603	396	21	.06	410	105	392	8.0	118	1,314	608	.4	2.5	1.6	2,920	3.97	12,640	37
July 11-14	332	869	38	.05	456	171	1,316	35	83	1,554	2,140	.3	3.5	2.0	5,750	7.82	5,160	61
July 15-20	3,235	344	22	.04	366	89	312	10	107	1,118	484	.4	2.0	1.0	2,456	3.34	21,450	35
July 21, 22, 26-31	917	428	24	.05	424	111	435	13	97	1,338	710	.4	2.5	1.5	3,110	4.23	7,700	39
July 23-25	369	839	-	.05	448	143	1,294	33	93	1,541	2,040	.4	3.0	2.5	5,550	7.55	5,530	63
Aug. 1-10	347	756	33	.05	480	164	1,062	26	107	1,640	1,700	.3	3.5	1.5	5,160	7.02	4,840	56
Aug. 11-17	448	662	27	.06	428	148	891	30	124	1,478	1,430	.2	3.5	2.0	4,500	6.12	5,440	54
Aug. 18-20	1,563	441	-	-	448	135	425	14	112	1,473	700	.3	2.5	2.0	3,250	4.42	13,720	36
Aug. 21-31	1,281	424	18	.06	397	104	450	16	118	1,254	715	.4	2.8	1.0	3,020	4.11	10,830	41
Sept. 1-10	955	411	17	.05	377	105	432	15	119	1,213	685	.2	1.8	1.5	2,900	3.94	7,480	41
Sept. 11-19	433	619	22	.07	446	147	798	30	149	1,477	1,295	.4	3.5	2.0	4,290	5.83	5,020	51
Sept. 20	996	320	-	-	-	-	-	-	146	-	445	-	-	-	-	-	-	-
Sept. 21-23	17,567	144	14	.05	135	34	116	7.6	136	354	182	.1	1.2	.5	911	1.24	43,200	35
Sept. 24-26	20,900	145	24	.07	156	36	104	7.8	110	444	155	.2	1.4	1.0	983	1.34	55,500	31
Sept. 27-30	16,445	249	12	.05	383	57	142	11	113	1,099	199	.3	1.2	1.0	1,960	2.67	87,000	21
Weighted average	1,655	270	17	.06	297	68	267		103	911	397	-	1.9	-	2,009	2.73	8,970	36

Pecos River near Orla, Tex.

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Specific conductance (K x 10^6 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Percent sodium
Oct. 1-10, 1940	64.6	885	19	0.09	608	223	1,204	20	117	2,109	1,980	1.1	1.8	1.2	6,220	8.46	1,125	52
Oct. 11, 12, 16-20	24.2	770	14	.09	552	169	1,061	14	107	1,778	1,730	1.0	1.0	1.6	5,370	7.30	351	53
Oct. 13-15	112	272	-	-	305	41	261		75	818	412	.7	1.5	-	1,876	2.55	569	38
Oct. 21-31	74.9	875	13	.08	612	211	1,202	17	124	2,095	1,970	.8	1.2	1.6	6,180	8.40	1,250	52
Nov. 1-10	8.4	843	18	.09	602	205	1,161	18	104	2,030	1,870	.7	.50	2.4	5,960	8.11	135	52
Nov. 11-20	2.9	1,048	12	.10	682	259	1,552	18	108	2,337	2,540	.6	.50	4.0	7,450	10.1	58	55
Nov. 21-30	2.8	1,098	10	.08	714	259	1,624	18	129	2,430	2,650	.6	.25	2.0	7,770	10.6	59	55
Dec. 1-10	2.7	1,077	10	.09	704	266	1,630	15	129	2,408	2,640	.7	1.0	-	7,740	10.5	56	56
Dec. 11-20	2.7	1,104	8.0	.08	702	274	1,700	15	133	2,464	2,730	.7	.75	-	7,960	10.8	58	56
Dec. 21-23, 27-31	7.5	1,094	10	.08	708	270	1,662	14	134	2,451	2,670	1.1	.50	-	7,850	10.7	159	56
Jan. 1-3,5-10,1941	3.1	772	15	.06	586	206	1,043	20	134	1,936	1,730	.4	.50	2.5	5,600	7.62	47	50
Jan. 11-20	2.7	1,035	14	.08	706	267	1,544	15	132	2,387	2,600	.2	.25	3.0	7,600	10.3	55	54
Jan. 21-31	18.0	938	18	.06	650	237	1,336	21	142	2,191	2,220	.4	.50	3.0	6,740	9.17	328	53
Feb. 1-10	13.0	883	17	.03	600	218	1,204	16	137	2,025	1,990	.5	.75	3.5	6,140	8.35	216	52
Feb. 11-20	8.8	1,008	16	.03	666	245	1,419	17	133	2,277	2,340	.3	.50	3.0	7,050	9.59	168	53
Feb. 21-28	7.2	910	15	.03	598	222	1,240	14	128	2,016	2,080	.5	.50	2.5	6,260	8.50	122	53
Mar. 1-10	2.4	985	10	.06	666	249	1,423	15	102	2,331	2,330	.6	.50	-	7,080	9.63	46	54
Mar. 11-20	3.7	1,093	12	.07	738	275	1,643	13	120	2,540	2,700	.6	.75	-	7,890	10.9	80	55
Mar. 21-31	3.4	927	10	.06	602	228	1,338	14	111	2,049	2,190	.6	.25	-	6,490	8.83	60	55
Apr. 1-10	507	718	23	.07	544	187	935	14	129	1,852	1,530	1.2	2.0	-	5,150	7.00	7,050	49
Apr. 11-20	654	705	20	.07	546	184	939	14	139	1,844	1,520	1.1	1.0	-	5,140	6.99	9,070	48
Apr. 21-30	452	725	13	.06	550	184	946	15	138	1,855	1,580	1.0	1.5	-	5,210	7.09	6,360	49
May 1-10	64.8	832	15	.07	580	227	1,133	16	119	1,985	1,910	.2	1.2	-	5,930	8.06	1,038	51
May 11-20	147	712	11	.07	534	184	933	17	136	1,796	1,530	.2	2.5	2.0	5,070	6.90	2,012	50
May 21	192	686	-	-	532	182	901		105	1,788	1,480	-	1.0	-	4,940	6.72	2,560	49
May 26-31	1,058	252	8.0	.08	303	54	188	15	87	849	318	.0	1.2	.5	1,779	2.42	5,080	30
June 2-10	7,154	265	19	.06	334	58	207	10	104	959	314	.4	3.0	.3	1,956	2.66	37,800	30
June 11	4,300	271	26	-	359	55	204	17	110	1,026	308	-	2.5	1.0	2,045	2.78	23,740	29
June 12-15	1,455	557	22	.13	471	131	681	20	95	1,559	1,075	.0	7.5	2.0	4,010	5.45	15,780	47
June 16-20	1,240	347	19	.75	429	76	317	10	110	1,267	466	.0	2.5	1.0	2,640	3.59	8,840	34
June 21-30	1,658	342	16	.09	395	77	322	10	119	1,182	474	.0	1.5	.3	2,530	3.44	11,330	35
July 1-10	1,339	346	21	.09	382	84	323	11	109	1,166	500	.4	3.0	1.0	2,540	3.45	9,180	36
July 11-20	1,549	354	21	.08	401	87	331	12	111	1,220	510	.4	3.5	1.0	2,640	3.59	11,040	35
July 21-31	1,391	356	19	.07	419	84	324	10	117	1,252	494	.4	2.5	1.0	2,660	3.62	9,990	34
Aug. 1-10	548	394	21	.08	391	94	411	11	106	1,230	636	.4	3.0	1.0	2,850	3.88	4,210	40
Aug. 11-20	463	420	21	.08	404	97	447	10	130	1,257	692	.4	4.0	1.0	3,000	4.08	3,750	41
Aug. 21-31	1,014	386	22	.07	421	91	382	9.6	130	1,275	586	.4	2.0	1.0	2,850	3.88	1,050	37
Sept. 1-5, 7-10	987	399	32	.08	425	90	423	9.6	138	1,289	640	.4	3.0	1.2	2,980	4.05	8,240	39
Sept. 11-20	731	434	25	.08	444	97	460	11	153	1,342	720	.4	4.5	1.2	3,180	4.32	6,280	40
Sept. 21, 22	4,735	396	16	-	517	82	359		118	1,506	525	-	3.5	1.0	3,070	4.18	39,200	32
Sept. 23-30	21,100	264	19	.07	340	59	197	9.2	144	965	288	.1	4.0	.8	1,952	2.65	111,200	29
Weighted average	1,284	315	18	.08	364	72	280	11	121	1,068	434	.2	3.0	-	2,308	3.14	8,000	34

Pecos River at Pecos, Tex.

Oct. 1-10, 1940	30.3	1,008	-	-	680	266	1,406	139	2,324	2,350	-	1.2	-	7,100	9.66	581	52
Oct. 11-13, 16-20	34.8	916	-	-	608	245	1,269	197	1,967	2,180	-	1.5	-	6,370	8.66	599	52
Oct. 14-15	63.0	220	-	-	254	43	181	76	705	288	-	1.8	-	1,511	2.05	257	33
Oct. 21-26	17.5	1,152	-	-	717	320	1,671	174	2,461	2,860	-	1.5	-	8,120	11.0	384	54
Oct. 28-31	53.8	898	-	-	632	232	1,248	147	2,158	2,040	-	.75	-	6,380	8.68	927	52
Nov. 1-10	19.9	1,059	-	-	696	288	1,541	204	2,382	2,570	-	1.2	-	7,580	10.3	407	53
Nov. 11-20	13.0	1,179	-	-	740	326	1,702	219	2,487	2,920	-	1.0	-	8,290	11.3	291	54
Nov. 21-30	12.4	1,177	-	-	731	323	1,729	176	2,530	2,930	-	.75	-	8,330	11.3	279	54
Dec. 1-10	12.0	1,164	-	-	733	326	1,714	176	2,530	2,920	-	.50	-	8,310	11.3	269	54
Dec. 11-20	11.9	1,145	-	-	733	324	1,701	207	2,510	2,890	-	.75	-	8,260	11.2	265	54
Dec. 21-31	11.0	1,167	-	-	751	329	1,715	247	2,530	2,920	-	.75	-	8,370	11.4	249	54
Jan. 1-10, 1941	10.1	1,163	-	-	750	320	1,685	251	2,481	2,880	-	.75	-	8,240	11.2	225	53
Jan. 11-20	8.8	1,166	-	-	745	334	1,707	218	2,570	2,900	-	.75	-	8,360	11.4	199	53
Jan. 21-31	10.6	1,175	-	-	720	323	1,592	173	2,520	2,710	-	.0	-	7,950	10.8	228	53
Feb. 1-10	10.0	1,155	-	-	729	356	1,617	207	2,465	2,880	-	.75	-	8,150	11.1	220	52
Feb. 11-20	11.0	1,146	-	-	739	325	1,643	211	2,472	2,840	-	.50	-	8,120	11.0	241	53
Feb. 21-28	10.1	1,164	-	-	725	324	1,663	214	2,460	2,850	-	.75	-	8,130	11.1	222	53
Mar. 1-10	8.9	1,183	-	-	748	333	1,712	234	2,530	2,930	-	.75	-	8,370	11.4	201	53
Mar. 11-20	9.6	1,160	-	-	721	330	1,725	123	2,540	2,950	-	2.5	-	8,330	11.3	216	54
Mar. 21-31	97.9	1,161	-	-	745	326	1,699	234	2,510	2,900	-	-	-	8,300	11.3	2,194	54
Apr. 1-4	-	1,188	-	-	756	330	1,772	151	2,620	3,010	-	1.0	-	8,560	11.6	-	54
Apr. 5-10	-	728	-	-	562	200	951	127	1,880	1,580	-	4.0	-	5,240	7.13	-	48
Apr. 11-20	441	722	-	-	556	190	941	133	1,872	1,540	-	1.8	-	5,170	7.03	6,160	48
Apr. 21-30	338	731	-	-	560	193	960	127	1,867	1,580	-	1.8	-	5,220	7.10	4,770	49
May 1-10	71.9	858	-	-	606	230	1,182	165	1,990	2,000	-	1.0	-	6,090	8.28	1,182	51
May 11-20	74.2	841	-	-	594	212	1,168	138	1,992	1,920	-	-	-	5,950	8.09	1,192	52
May 21-22	106	766	-	-	564	205	1,029	122	1,911	1,700	-	1.0	-	5,470	7.44	1,573	50
May 23[a]	-	630	-	-	484	163	790	120	1,584	1,310	-	1.5	-	4,390	5.97	-	48
May 23[b]	-	193	-	-	177	39	176	89	481	290	-	2.5	-	1,209	1.64	-	39
May 24	1,250	164	-	-	255	24	85	67	631	146	-	2.5	-	1,176	1.60	3,970	20
May 25[c]	-	67.6	-	-	94	9.4	31	70	205	49	-	-	-	423	.58	-	20
May 25[d]	-	110	-	-	182	14	42	65	438	67	-	-	-	775	1.05	-	15
May 26	2,550	191	-	-	290	32	110	80	733	188	-	2.0	-	1,394	1.90	9,600	22
May 27-31	5,434	259	-	-	325	59	193	90	895	332	-	.5	-	1,849	2.51	27,100	29
June 1-10	8,348	258	-	-	314	52	216	97	887	328	-	2.5	-	1,847	2.51	41,600	32
June 12-14	5,073	293	-	-	381	60	239	106	1,082	356	-	1.2	-	2,171	2.95	29,700	30
June 15-17	1,129	463	-	-	448	104	510	142	1,346	805	-	2.5	-	3,290	4.47	10,030	42
June 18-20	1,767	344	-	-	442	73	298	119	1,261	454	-	1.2	-	2,590	3.52	12,350	32
June 21-30	1,418	360	-	-	418	80	337	119	1,232	514	-	1.0	-	2,640	3.59	10,110	35
Weighted average[e]	646	320	-	-	349	71	303	103	1,042	479	-	1.8	-	2,307	3.14	4,030	36

[a]Composite of samples collected at 8:30 a.m. and 1:00 p.m.
[b]Composite of samples collected at 5:10 p.m. and 9:30 p.m.
[c]Composite of 5 samples collected between 12:20 a.m. and 2:00 p.m.
[d]Composite of samples collected at 5:10 p.m. and 9:00 p.m.
[e]For the 9-month period ending June 30, 1941.

Pecos River below Grandfalls, Tex.

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Specific conductance (K x 10^5 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Percent sodium
Oct. 1-10, 1940	32.7	1,357	32	0.09	758	342	2,189	23	172	2,840	3,440	1.7	3.5	-	9,710	13.2	857	59
Oct. 11-12, 18-20	80.8	1,135	28	.16	650	278	1,803	16	174	2,369	2,830	2.3	4.5	-	8,070	11.0	1,761	59
Oct. 13, 15-16	316	302	-	-	202	62	371		90	628	592	.9	1.8	-	1,902	2.59	1,623	52
Oct. 14, 17	69.5	611	-	-	376	146	865		126	1,299	1,390	-	3.5	-	4,140	5.63	777	55
Oct. 21-31	44.2	1,248	22	.09	679	310	1,941	22	189	2,570	3,140	1.8	3.0	-	8,780	11.9	1,048	59
Nov. 1-10	87.3	1,420	17	.08	728	311	2,311	22	177	2,660	3,710	1.4	1.5	-	9,850	13.4	2,322	62
Nov. 11-20	79.9	1,540	21	.08	747	340	2,530	22	194	2,760	4,140	1.4	1.2	-	10,660	14.5	2,300	63
Nov 21-30	71.2	1,049	15	.09	772	364	2,780	22	201	2,870	4,510	1.8	3.0	-	11,440	15.6	2,199	64
Dec. 1-10	69.2	1,650	19	.09	757	370	2,860	18	190	2,900	4,540	1.6	2.0	-	11,560	15.7	2,160	65
Dec. 11-20	71.0	1,653	18	.08	763	368	2,850	19	200	2,890	4,540	1.6	1.5	-	11,550	15.7	2,214	65
Dec. 21-31	67.7	1,659	19	.08	767	372	2,860	19	206	2,910	4,560	1.6	2.0	-	11,610	15.8	2,122	64
Jan. 1-10, 1941	66.9	1,668	18	.06	777	378	2,900	25	198	2,950	4,690	.5	1.5	-	11,840	16.1	2,139	64
Jan. 11-20	63.6	1,635	17	.07	767	373	2,840	18	198	2,900	4,580	1.0	.99	-	11,590	15.8	1,990	64
Jan. 21-31	56.4	1,648	18	.17	775	382	2,860	22	204	2,950	4,610	1.0	.99	-	11,720	15.9	1,785	64
Feb. 1-10	63.1	1,729	19	.03	778	391	2,940	22	201	2,960	4,770	1.3	.99	-	11,980	16.3	2,041	64
Feb. 11-20	61.4	1,635	19	.03	751	370	2,750	19	192	2,850	4,490	1.3	.74	-	11,350	15.4	1,882	64
Feb. 21-28	59.5	1,689	17	.03	763	383	2,860	19	193	2,920	4,640	1.3	.99	-	11,700	15.9	1,880	64
Mar. 1-10	58.0	1,672	14	.07	769	376	2,880	19	181	2,910	4,590	1.8	1.2	-	11,650	15.8	1,824	64
Mar. 11-16, 18-20	55.4	1,719	14	.11	773	380	2,970	21	182	2,970	4,720	1.8	1.5	-	11,940	16.2	1,786	65
Mar. 21-31	55.7	1,692	19	.08	765	375	2,940	19	184	2,910	4,670	1.4	1.2	-	11,790	16.0	1,773	65
Apr. 1-10	81.0	1,617	20	.08	775	368	2,800	31	163	2,930	4,530	2.2	2.0	-	11,540	15.7	2,520	64
Apr. 11-20	20.5	1,214	23	.08	771	312	1,869	28	180	2,730	3,040	2.1	5.5	-	8,870	12.1	491	56
Apr. 21-30	23.6	1,216	24	.09	751	305	1,905	30	189	2,710	3,050	1.9	4.0	-	8,870	12.1	565	57
May 1-10	37.6	1,207	22	.06	669	297	1,883	30	142	2,570	2,990	.8	5.6	-	8,540	11.6	867	59
May 11-20	88.4	1,293	21	.08	676	304	1,963	33	169	2,489	3,210	.8	3.0	-	8,780	11.9	2,096	59
May 21-24	96.0	1,201	30	.10	665	290	1,876	34	163	2,413	3,070	.8	3.0	-	8,460	11.5	2,193	59
May 25	515	729	-	-	492	182	962		140	1,612	1,620	-	1.5	-	4,940	6.71	6,870	51
May 26	853	234	11	.08	257	42	197	14	79	704	326	.0	4.0	-	1,594	2.17	3,670	35
May 27	911	129	10	.07	123	30	92	13	80	312	175	.0	3.0	-	798	1.09	1,963	33
May 28	998	206	15	.07	288	35	136	14	80	749	228	.0	4.0	-	1,508	2.05	4,060	27
May 29-30	1,210	266	14	.08	330	49	214	20	92	913	342	.0	2.5	-	1,930	2.62	6,310	32
May 31	1,710	294	19	.08	360	56	238	31	104	1,015	394	.0	.75	-	2,165	2.94	10,000	33
June 1-2, 4-10	5,584	320	18	.09	355	68	289	13	108	1,035	450	.6	4.0	-	2,286	3.11	34,500	36
June 11-17	6,189	373	17	.08	368	80	378	14	111	1,120	590	.6	2.5	-	2,620	3.56	43,800	40
June 18-20	2,390	518	26	-	451	115	597	20	118	1,415	960	.4	3.0	-	3,650	4.96	23,600	45
June 21-27, 29-30	1,262	458	24	.08	451	101	500	14	125	1,395	770	.2	3.0	-	3,320	4.52	11,300	42
July 1-10	886	495	30	.06	444	126	575	16	96	1,398	935	.4	3.3	-	3,580	4.87	8,560	44
July 11-20	355	736	35	.05	512	183	993	23	115	1,765	1,620	.5	3.5	-	5,190	7.06	4,970	52
July 21-31	747	445	26	.07	463	103	462	13	124	1,411	720	.4	5.2	-	3,260	4.44	6,580	39

Aug. 1-10	354	601	26	.07	488	153	755	14	142	1,564	1,205	.5	6.9	-	4,280	5.82	4,090	47
Aug. 11-20	112	875	29	.04	562	218	1,232	22	117	1,993	1,990	.6	5.5	-	6,110	8.31	1,856	54
Aug. 21-25	73.2	1,064	-	.05	634	268	1,566	23	190	2,242	2,570	.9	2.8	-	7,400	10.1	1,463	56
Aug. 26-31	477	518	21	.06	460	122	595	14	120	1,444	950	.6	8.8	-	3,670	4.99	4,730	44
Sept. 1-10	916	474	18	.07	450	108	548	10	131	1,409	845	.4	4.0	-	3,460	4.71	8,560	43
Sept. 11-17, 19, 20	784	551	18	.08	478	126	668	14	128	1,526	1,035	.5	3.0	-	3,930	5.34	8,320	46
Sept. 21-29	1,602	465	17	.07	508	102	500	12	126	1,513	760	.3	2.8	-	3,480	4.73	15,100	40
Sept. 30	2,940	399	-	-	-	-	-	-	-	-	552	-	-	-	-	-	-	-
Weighted average	556	489	20	.08	429	112	585	14	119	1,343	924	.6	3.4	-	3,490	4.75	5,260	45
Pecos River near Girvin, Tex.																		
Oct. 1-10, 1940	52.4	1,743	15	.10	784	452	2,970	29	142	3,430	4,740	1.6	3.0	1.0	12,490	17.0	1,767	63
Oct. 11-15	130	1,433	16	.16	651	357	2,403	22	161	2,720	3,810	1.2	2.0	-	10,060	13.7	3,540	63
Oct. 16, 18-20	205	540	10	-	276	119	765	11	114	1,022	1,200	1.1	1.5	-	3,460	4.71	1,919	59
Oct. 21-31	56.4	1,452	15	.09	623	374	2,477	28	166	2,730	3,820	1.2	.75	1.3	10,150	13.8	1,546	64
Nov. 1-10	101	1,537	13	.08	709	375	2,580	26	175	2,870	4,100	1.7	.25	2.7	10,760	14.6	2,940	63
Nov. 11-20	102	1,623	13	.08	729	385	2,770	26	183	2,960	4,400	1.7	.50	-	11,380	15.5	3,150	64
Nov. 21-30	92.8	1,752	11	.07	754	411	3,020	25	189	3,100	4,820	1.7	.74	-	12,240	16.6	3,070	65
Dec. 1-10	88.3	1,789	14	.10	759	422	3,170	20	186	3,160	4,980	1.9	.74	-	12,620	17.2	3,010	66
Dec. 11-20	89.9	1,768	13	.09	763	422	3,150	22	190	3,160	4,990	1.9	.74	-	12,620	17.2	3,060	65
Dec. 21-24, 27-31	86.4	1,805	13	.09	765	429	3,170	20	197	3,170	5,030	1.9	.99	-	12,700	17.3	2,960	65
Jan. 1-10, 1941	86.0	1,801	-	-	768	433	3,200		196	3,180	5,090	-	.50	-	12,770	17.4	2,970	65
Jan. 11-20	83.4	1,813	-	-	766	445	3,200		192	3,210	5,110	-	.74	-	12,830	17.4	2,890	65
Jan. 21-31	78.0	1,817	-	-	774	441	3,200		205	3,220	5,090	-	.99	-	12,830	17.4	2,700	65
Feb. 1, 3-10	84.5	1,856	-	-	756	452	3,270		188	3,220	5,210	-	.50	-	13,000	17.7	2,970	65
Feb. 11-20	80.5	1,856	-	-	762	445	3,220		177	3,200	5,140	-	.50	-	12,850	17.5	2,790	65
Feb. 21-28	78.2	1,807	-	-	754	435	3,200		176	3,170	5,090	-	.74	-	12,740	17.3	2,690	65
Mar. 1-10	75.1	1,912	-	-	774	458	3,360		163	3,320	5,340	-	.74	-	13,330	18.1	2,700	66
Mar. 11-13, 15-20	75.5	1,895	-	-	770	450	3,320		176	3,290	5,260	-	.50	-	13,180	17.9	2,690	66
Mar. 21-24, 26-28, 31	80.8	1,838	-	-	699	442	3,270		166	3,200	5,110	-	.50	-	12,800	17.4	2,790	67
Mar. 25	299	719	-	-	320	156	1,089		126	1,188	1,750	-	-	-	4,570	6.22	3,390	62
Apr. 1-7, 9-10	107	1,853	-	-	781	447	3,360		121	3,300	5,360	-	.0	-	13,310	18.1	3,850	66
Apr. 11-20	51.5	1,903	-	-	771	482	3,480		129	3,460	5,500	-	.0	-	13,760	18.7	1,913	66
Apr. 21-30	58.9	1,637	-	-	726	449	2,980		132	3,270	4,690	-	.2	-	12,180	16.6	1,987	64
May 1, 3-10	104	1,363	-	-	577	379	2,232		111	2,590	3,590	-	.99	-	9,420	12.8	2,640	62
May 11-20	173	1,531	-	-	705	397	2,560		105	2,980	4,090	-	.74	-	10,780	14.7	5,040	62
May 21-27	347	1,283	-	-	676	326	2,055		138	2,540	3,360	-	.75	-	9,030	12.3	8,450	60
May 28	861	290	-	-	245	62	301		94	714	496	-	1.0	-	1,865	2.54	4,340	43
May 29	910	148	-	-	-	-	-		108	384	206	-	-	-	1,060	1.44	2,600	-
May 30	988	205	-	-	284	34	145		84	744	228	-	1.0	-	1,477	2.01	3,940	27
May 31	1,100	273	-	-	354	55	222		97	963	362	-	.75	-	2,005	2.73	5,950	30
June 1-10	2,590	311	-	-	376	61	282		111	1,074	420	-	2.0	-	2,270	3.09	15,870	34
June 11-20	6,181	352	-	-	392	75	341		120	1,146	522	-	1.5	-	2,540	3.45	42,400	37
June 21-30	1,897	551	-	-	411	127	752		136	1,561	1,025	-	2.0	-	3,940	5.36	20,180	51
Weighted average[a]	490	591	-	-	444	135	814		127	1,497	1,237	-	1.6	-	4,210	5.73	5,540	52

[a] For the 9-month period ending June 30, 1941.

Pecos River near Sheffield, Tex.

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Specific conductance (K x 10^6 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Percent sodium
Oct. 1-10, 1940	50.6	1,500	-	-	628	388	2,570		109	2,860	4,030	1.5	2.0	-	10,530	14.3	1,439	64
Oct. 11-18	151	1,443	-	-	621	372	2,393		110	2,730	3,790	1.6	1.7	-	9,960	13.5	4,070	63
Oct. 21-31	80.8	450	-	-	257	97	615		134	868	965	.8	.75	-	2,870	3.90	626	56
Nov. 1-2	82.0	698	-	-	328	168	1,028		158	1,279	1,630	.6	.50	-	4,500	6.12	998	60
Nov. 3-10	110	1,325	-	-	559	333	2,198		141	2,470	3,440	1.5	.50	-	9,070	12.3	2,700	63
Nov. 11-20	114	1,327	-	-	609	314	2,190		153	2,422	3,490	1.5	.75	-	9,100	12.4	2,800	63
Nov. 21-30	108	1,477	-	-	646	345	2,510		168	2,610	3,950	1.4	.75	-	10,150	13.8	2,970	65
Dec. 1-10	107	1,541	-	-	653	365	2,660		163	2,710	4,210	-	1.0	-	10,670	14.5	3,080	65
Dec. 11-20	108	1,536	-	-	645	370	2,620		173	2,680	4,180	-	1.0	-	10,580	14.4	3,100	65
Dec. 21-31	101	1,519	-	-	651	366	2,660		174	2,690	4,230	-	.75	-	10,680	14.5	2,920	65
Jan. 1-10, 1941	103	1,510	-	-	656	372	2,640		181	2,690	4,220	-	.75	-	10,670	14.5	2,970	64
Jan. 11-20	101	1,529	-	-	648	367	2,640		181	2,680	4,210	-	1.0	-	10,640	14.5	2,890	65
Jan. 21-27	110	1,537	-	-	643	383	2,660		179	2,700	4,260	-	.75	-	10,730	14.6	3,200	65
Jan. 28	204	633	-	-	268	145	980		114	1,017	1,590	-	1.8	-	4,060	5.52	2,236	63
Jan. 29-31	104	1,271	-	-	536	306	2,130		179	2,180	3,410	-	1.5	-	8,650	11.8	2,436	64
Feb. 1-10	105	1,517	-	-	625	361	2,560		193	2,600	4,070	-	.50	-	10,310	14.0	2,920	65
Feb. 11-20	99.4	1,559	-	-	632	378	2,680		178	2,670	4,270	-	.74	-	10,720	14.6	2,880	65
Feb. 21-28	98.4	1,544	-	-	640	368	2,610		181	2,650	4,170	-	.50	-	10,530	14.3	2,740	65
Mar. 1-10	91.7	1,511	-	-	636	368	2,580		160	2,650	4,130	-	.75	-	10,440	14.2	2,580	64
Mar. 11-20	93.0	1,565	-	-	646	380	2,720		165	2,740	4,320	-	.50	-	10,890	14.8	2,730	65
Mar. 21-24, 26	177	1,542	-	-	642	366	2,660		174	2,680	4,220	-	.74	-	10,650	14.5	5,080	65
Mar. 25	132	806	-	-	330	177	1,305		124	1,314	2,070	-	1.0	-	5,260	7.15	1,875	65
Mar. 27-31	143	576	-	-	243	124	888		135	930	1,395	-	1.0	-	3,850	4.96	1,413	63
Apr. 1	107	539	-	-	297	116	784		152	1,007	1,240	-	1.2	-	3,520	4.79	1,017	58
Apr. 2-10	107	1,482	-	-	616	359	2,540		179	2,620	4,020	-	.75	-	10,240	13.9	2,930	65
Apr. 11-14	142	1,672	-	-	713	409	3,010		164	2,990	4,790	-	.5	-	11,990	16.3	4,590	65
Apr. 15-16	400	709	-	-	322	154	1,108		112	1,139	1,820	-	3.0	-	4,600	6.26	4,970	63
Apr. 17-20	77.5	1,285	-	-	567	291	2,173		177	2,138	3,520	-	1.2	-	8,730	11.9	1,837	64
Apr. 21-27	124	1,356	-	-	573	322	2,343		161	2,317	3,760	-	1.5	-	9,400	12.8	3,150	65
Apr. 28, 30	182	631	-	-	268	149	976		118	1,059	1,560	-	4.0	-	4,070	5.54	1,995	62
Apr. 29	1,090	482	-	-	218	90	740		100	813	1,130	-	1.0	-	3,040	4.13	8,950	64
May 1, 4	272	1,013	-	-	456	266	1,558		160	1,789	2,570	-	2.0	-	6,720	9.14	4,940	60
May 2	1,560	110	-	-	-	-	-		116	126	190	-	-	-	-	-	-	-
May 3, 5-10	190	792	-	-	358	201	1,211		147	1,388	1,940	-	1.5	-	5,170	7.03	2,650	61
May 11-20	214	1,097	-	-	492	286	1,754		154	2,031	2,820	-	1.0	-	7,460	10.1	4,310	61
May 21-30	324	1,272	-	-	595	323	2,066		120	2,437	3,310	-	.75	-	8,790	12.0	7,690	61
May 31	790	292	-	-	-	-	-		98	829	438	-	-	-	-	-	-	
June 1-3	1,093	239	-	-	286	40	207		112	777	302	-	2.5	-	1,670	2.27	4,930	34
June 4-9	1,868	319	-	-	381	61	287		114	1,092	420	-	3.0	-	2,300	3.13	11,730	34
June 10	2,990	231	-	-	270	44	190		106	742	288	-	2.5	-	1,589	2.16	12,830	33
June 11-20	4,417	341	-	-	394	70	323		125	1,144	450	-	2.5	-	2,475	3.37	29,500	36
June 21, 22	5,205	379	-	-	429	80	360		124	1,241	558	-	1.8	-	2,730	3.71	33,400	36
June 23-30	2,396	556	-	-	502	122	656		154	1,571	1,005	-	3.5	-	3,940	5.35	25,500	45
Weighted average[a]	458	600	-	-	447	138	830		135	1,482	1,297	-	2.3	-	4,260	5.79	5,270	52

[a]For the 9-month period ending June 30, 1941.

Pecos River at dam site 3, near Carlsbad, N. Mex.

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Specific conductance (K x 10^5 at 25°C.)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na+K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Dissolved Solids: Parts per million	Dissolved Solids: Tons per acre-foot	Percent sodium
1940											
Oct. 30	89	477	586	145	413	138	1,817	675	3,700	5.03	30
Nov. 9	76	465	564	134	420	130	1,775	650	3,610	4.91	32
Nov. 23	82	470	572	132	427	121	1,791	660	3,640	4.95	32
Nov. 28	92	470	--	--	--	--	--	660	--	--	--
Dec. 4	96	465	573	134	423	133	1,800	650	3,650	4.96	32
Dec. 7	99	469	--	--	--	--	--	650	--	--	--
Dec. 12	102	463	574	135	408	119	1,793	645	3,610	4.91	31
Dec. 16-20	107	464	552	135	419	105	1,781	640	3,600	4.90	32
Dec. 21-31	108	462	554	139	412	104	1,798	633	3,610	4.91	31
1941											
Jan. 1-10	--	459	554	134	412	117	1,776	626	3,580	4.87	32
Jan. 11-20	--	462	560	135	402	125	1,776	619	3,570	4.86	31
Jan. 21-31	--	458	552	137	402	110	1,784	615	3,560	4.84	31
Feb. 1-10	--	452	552	135	405	116	1,789	607	3,560	4.84	31
Feb. 11-20	--	456	556	136	409	120	1,799	613	3,590	4.88	31
Feb. 21-23,25-28	--	459	556	131	400	118	1,773	605	3,550	4.83	31
Mar. 1-10	--	454	560	134	409	118	1,793	620	3,590	4.88	31
Mar. 11-16,18-20	--	459	552	136	412	99	1,786	633	3,590	4.88	31
Mar. 21-24,27-31	--	457	556	135	397	114	1,756	627	3,550	4.83	31
Mar. 25,26	--	305	--	--	--	--	--	384	--	--	--
Apr. 1-9	--	467	564	136	414	126	1,774	650	3,620	4.92	31
Apr. 10	--	428	--	--	--	--	--	572	--	--	--
Apr. 11-13,15,18-20	--	447	562	134	350	127	1,681	610	3,420	4.65	28
Apr. 16,17	--	476	596	135	392	124	1,774	670	3,630	4.94	29
Apr. 21-30	--	478	576	137	414	122	1,755	690	3,660	4.98	31
May 1-10	--	350	441	84	291	110	1,307	445	2,640	3.59	30
May 11-17,19	--	382	459	100	335	106	1,400	524	2,890	3.93	32
May 18,20	--	465	533	130	448	86	1,688	715	3,590	4.88	34
May 21-22,25-31	--	254	314	61	195	96	933	288	1,857	2.53	29
June 2-10	--	278	370	69	193	111	1,095	278	2,083	2.83	26
June 11-13,15-17 19,20	--	323	440	84	241	103	1,327	354	2,520	3.43	27
June 21,22,24-27, 29,30	--	310	401	83	234	106	1,208	358	2,356	3.20	28
July 1-9	--	316	397	84	248	116	1,192	382	2,381	3.24	29
July 11-20	--	321	400	86	258	109	1,222	390	2,412	3.28	29
July 21-31	--	318	423	82	233	114	1,277	336	2,410	3.28	27
Aug. 1-10	--	355	441	95	304	117	1,363	450	2,710	3.69	31
Aug. 11,13,14	--	426	520	126	375	111	1,646	585	3,310	4.50	31
Aug. 15-20	--	331	394	88	280	120	1,205	426	2,454	3.34	31
Aug. 21-31	--	306	358	83	254	122	1,099	384	2,240	3.05	31
Sept. 1-10	--	322	398	90	263	120	1,230	394	2,436	3.31	30
Sept. 11-15,17-19	--	368	460	109	301	127	1,437	460	2,830	3.85	29
Sept. 23,25-30	--	224	325	52	137	101	934	188	1,688	2.30	22

Carlsbad project canal at Avalon Dam, near Carlsbad, N. Mex.

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Specific conductance (K x 10^5 at 25°C.)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na+K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Percent sodium
1940											
Oct. 1-8,10	91.2	481	570	138	453	122	1,819	690	3,730	5.07	33
Oct. 16-18	24.0	90.2	95	21	58	63	260	89	568	.77	28
Oct. 19-20	24.0	437	520	125	402	133	1,630	621	3,380	4.60	32
Oct. 21-28	51.4	433	516	124	390	111	1,625	609	3,340	4.54	32
Dec. 17-20	0	399	470	114	349	120	1,478	540	3,010	4.09	32
Dec. 21-31	0	408	478	115	363	117	1,516	553	3,090	4.20	32
1941											
Jan. 1	-	427	-	-	-	-	-	575	-	-	-
Jan. 2-10	-	431	510	127	374	106	1,631	584	3,290	4.47	31
Jan. 11-19	-	441	530	128	384	131	1,671	593	3,380	4.60	31
Feb. 9-10	-	457	550	135	348	114	1,651	619	3,360	4.57	28
Feb. 12-20	-	458	556	138	397	125	1,778	613	3,560	4.84	31
Feb. 21-28	-	460	576	156	335	84	1,789	620	3,530	4.80	26
Mar. 1-6	-	463	592	128	385	106	1,799	625	3,600	4.90	29
Mar. 25	-	457	578	135	378	105	1,784	620	3,550	4.83	29
Apr. 3-10	-	465	594	136	357	115	1,776	620	3,560	4.84	28
Apr. 11-20	-	455	572	132	366	136	1,695	630	3,480	4.73	29
Apr. 21-30	-	471	580	141	384	141	1,738	665	3,590	4.88	29
May 1	-	442	538	133	428	124	1,755	630	3,550	4.83	33
May 2, 3:30 a.m.	-	153	182	38	116	80	533	168	1,081	1.47	29
May 2, composite	-	238	279	58	188	100	827	282	1,686	2.29	30
May 3-10	-	318	412	78	240	98	1,212	372	2,376	3.23	28
May 11-20	-	355	443	86	300	116	1,312	460	2,670	3.63	31
May 14-16,18-20	-	364	438	94	317	80	1,361	484	2,760	3.75	32
May 21, 9:30 p.m.	-	357	-	-	-	-	-	550	-	-	-
May 21, 11:59 p.m.	-	221	247	55	172	98	710	280	1,514	2.06	31
May 22, 2:30 a.m.	-	133	155	31	86	110	390	145	863	1.17	27
May 22, 7:00 a.m.	-	79.4	84	17	50	74	216	71	488	.66	28
May 22, 6:40 p.m.	-	245	281	59	209	106	826	318	1,749	2.38	33
May 23,	-	160	177	38	112	98	478	186	1,041	1.42	29
May 24-30	-	238	285	55	187	98	854	264	1,709	2.32	30
May 31	-	157	202	37	102	90	560	155	1,104	1.50	25
June 1-20	-	283	-	-	-	-	-	-	-	-	-
June 21-30	-	302	398	82	220	107	1,198	334	2,305	3.13	26
July 1-3,5-10	-	309	392	84	245	101	1,197	372	2,361	3.21	29
July 11-20	-	309	388	83	245	106	1,179	372	2,342	3.19	29
July 21-31	-	308	419	82	227	122	1,254	332	2,395	3.26	26
Aug. 1-9	-	345	439	93	285	119	1,344	424	2,670	3.63	30
Aug. 11-20	-	354	433	97	297	118	1,336	452	2,690	3.66	30
Aug. 21-31	-	308	363	83	258	117	1,104	398	2,284	3.11	31
Sept. 1-10	-	299	365	83	242	123	1,122	360	2,236	3.04	30
Sept. 11-20	-	350	434	98	294	128	1,353	432	2,680	3.64	30

Tributaries to Pecos River in New Mexico and Texas

(Analyses in parts per million)

Toyah Creek below Toyah Lake, near Pecos, Tex.

Date of collection	Specific conductance ($K \times 10^6$ at 25°C.)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na+K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Dissolved solids Parts per million	Percent sodium
Oct. 11-12, 1940	536	307	95	787	46	1,118	1,180	3,510	60
Oct. 13	804	478	184	1,150	49	1,648	1,910	5,400	56
Oct. 14-22	1,150	535	286	1,873	70	2,244	2,970	7,940	62
Oct. 23-28	1,585	727	372	2,650	54	2,760	4,390	10,930	63
Dec. 26	1,968	770	550	3,600	143	3,600	5,780	14,370	65
Dec. 27-31	2,620	852	737	4,960	137	4,310	8,040	18,970	68
Jan. 2-4,6-10, 1941	2,820	838	779	5,390	105	4,460	8,710	20,230	69
Jan. 11, 13-20	2,730	796	752	5,260	110	4,260	8,500	19,620	69
Jan. 21-25	3,110	931	871	5,980	112	4,790	9,810	22,440	69
Jan. 26-30	3,240	935	893	6,360	112	4,930	10,360	23,530	70
Jan. 31	2,560	722	681	4,810	93	3,770	7,840	17,870	69
Feb. 1	1,582	491	378	2,780	74	2,299	4,520	10,500	68
Feb. 2-6, 8	2,690	766	719	5,190	67	4,050	8,420	19,180	70
Feb. 10-12	3,410	881	921	6,780	69	4,720	11,180	24,520	71
Feb. 13	2,479	815	690	4,530	124	3,990	7,420	17,510	67
Feb. 14-19	3,400	895	961	6,780	106	5,000	11,090	24,780	70
Feb. 20-24	3,860	944	1,130	7,730	77	5,560	12,730	28,100	71
Mar. 3-5	5,390	1,152	1,704	12,100	130	7,980	19,690	42,700	73
May 3-4	2,780	784	729	5,260	53	3,800	8,790	19,390	70
May 5-9	3,820	1,031	1,078	7,570	63	5,560	12,500	27,800	70
May 11-19	2,710	821	674	5,060	47	3,860	8,340	18,780	70
May 20-22, 24	3,510	982	910	6,940	59	5,030	11,350	25,200	71
Rock Quarry Draw near Barstow, Tex. (Sec. 33, Blk. 33, H. & T.C.R.R. Co. Survey, Ward County)									
Oct. 10, 1940	1,035	736	276	1,492	201	2,610	2,360	7,580	52
Oct. 25	1,068	740	283	1,552	198	2,610	2,480	7,770	53
Mov. 19	1,092	750	284	1,582	219	2,630	2,520	7,880	53
Jan. 7, 1941	1,106	760	297	1,587	214	2,640	2,580	7,980	53
Feb. 23	1,091	730	288	1,610	205	2,640	2,540	7,920	54
Barstow drainage ditch 1 near Barstow, Tex. (Sec. 39, Blk. 33, H. & T.C.R.R. Co. Survey, Ward County)									
Oct. 10, 1940	1,181	716	301	1,796	171	2,700	2,820	8,420	56
Nov. 19	1,185	727	303	1,808	169	2,680	2,880	8,480	56
Jan. 7, 1941	1,194	750	296	1,830	205	2,670	2,920	8,570	56
Feb. 28	1,238	740	309	1,919	193	2,730	3,040	8,830	57
Apr. 5	1,272	761	323	1,997	151	2,830	3,190	9,180	57
May 19	1,147	728	294	1,746	137	2,570	2,860	8,270	56
Barstow drainage ditch below confluence of ditches 2, 3, and 4, near Barstow, Tex. (Sec. 33, Blk. 33, H. & T.C.R.R. Co. Survey, Ward County)									
Oct. 10, 1940	1,054	736	279	1,495	194	2,620	2,370	7,600	52
Nov. 19	1,094	746	290	1,601	225	2,640	2,550	7,950	53
Jan. 7, 1941	1,108	748	382	1,460	220	2,650	2,600	7,960	48
Feb. 28	1,103	720	294	1,654	216	2,670	2,580	8,030	54
Apr. 5	1,130	748	301	1,654	167	2,710	2,650	8,150	54
May 19	1,080	742	301	1,599	190	2,630	2,600	7,970	53
Delaware River near Red Bluff, N. Mex.									
Oct. 1, 1940	290	643	60	78	62	1,771	90	2,670	8
Oct. 13	307	605	14	7.9	79	1,452	4	2,125	1
Oct. 14	217	540	18	25	89	1,320	19	1,968	4
Oct. 23	282	622	54	88	113	1,681	87	2,590	10
Oct. 24	284	618	57	88	109	1,687	87	2,590	10
Oct. 31	292	633	62	102	108	1,762	95	2,710	11
Dec. 2	287	611	66	91	111	1,705	91	2,620	10
Jan. 4, 1941	286	601	66	96	100	1,702	89	2,600	11
Jan. 12	282	589	66	101	102	1,682	89	2,580	11
Feb. 7	276	576	66	86	88	1,635	86	2,493	10
Mar. 1	282	601	68	89	90	1,698	93	2,590	10
Apr. 3	303	646	76	99	98	1,834	107	2,810	10
May 2	200	522	13	10	127	1,212	8	1,829	1
May 22	163	412	13	-	54	938	14	1,404	-
May 24	198	-	-	-	-	-	13	-	-
May 25	198	501	12	18	68	1,198	24	1,788	3
May 28	257	626	39	14	55	1,570	51	2,329	2
June 2	264	627	45	50	114	1,609	63	2,451	6
Salt (Screwbean) Draw near Orla, Tex.									
Oct. 12, 1940	146	278	10	54	64	689	58	1,122	14
Oct. 23	1,204	773	199	1,935	173	2,479	3,000	8,470	60
Oct. 31	1,432	807	258	2,457	228	2,880	3,710	10,230	63
Dec. 2	1,458	837	253	2,435	174	2,780	3,820	10,210	63
Jan. 4, 1941	1,614	850	282	2,810	168	2,900	4,420	11,350	65

Colorado River Basin

Colorado River at Bright Angel Creek, near Grand Canyon, Ariz.

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Suspended matter (percent)	Specific conductance (K x 10^6 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Total	Hardness as $CaCO_3$: Non-carbonate	Percent sodium
Oct. 1-10, 1940	19,570	0.63	144	18	1.3	134	33	145	7.6	236	470	80	0.6	0.2	0.8	1,006	1.37	53,200	470	276	41
Oct. 11-20	10,610	1.61	137	15	.12	124	36	132	11	218	431	94	.2	3.7	.3	954	1.30	27,300	458	279	40
Oct. 21-31	7,270	.65	149	13	.06	119	41	159	9.3	220	424	130	.1	5.0	.3	1,009	1.37	19,610	466	285	43
Nov. 1-10	7,150	.60	162	13	.12	129	46	172	11	224	487	138	.1	6.1	.4	1,113	1.51	21,490	511	328	43
Nov. 11, 12, 14-20	6,470	.28	161	13	.12	118	48	174	9.0	223	457	152	.1	5.6	.3	1,037	1.48	18,990	492	309	44
Nov. 21-26, 28-30	8,070	.87	150	14	.12	115	41	165	8.7	226	423	135	.2	5.1	.4	1,018	1.38	22,180	456	270	45
Dec. 1-10	6,220	.28	158	13	.12	119	47	167	8.6	232	438	154	.4	4.9	.4	1,064	1.45	17,870	490	300	43
Dec. 11-20	6,860	.51	152	12	.12	114	43	161	6.4	236	406	147	.4	4.9	.4	1,011	1.37	18,730	462	268	44
Dec. 21-31	6,300	1.10	147	13	.08	114	38	159	10	249	376	148	.3	5.7	.3	986	1.34	18,100	440	236	45
Jan. 1-6, 8-10, 1941	7,960	1.68	152	14	.08	112	38	170	9.6	251	399	146	.3	5.8	.3	1,018	1.38	21,680	436	230	47
Jan. 11-20	7,170	2.44	152	13	.08	108	37	186	8.3	256	382	155	.3	6.5	.3	1,022	1.39	19,780	422	212	50
Jan. 21-31	8,120	.42	162	12	.08	120	45	183	9.0	253	429	166	.3	5.6	.3	1,095	1.49	18,090	484	277	46
Feb. 1-10	6,340	.36	162	12	.08	114	44	178	7.7	244	407	161	.3	6.0	.3	1,050	1.43	17,970	466	266	46
Feb. 11-19	7,960	1.62	151	12	.08	110	37	173	7.7	244	377	147	.3	5.4	.3	990	1.35	21,280	426	226	48
Feb. 20-28	13,820	1.96	137	12	.08	105	31	156	8.0	238	354	107	.3	5.1	.3	806	1.22	33,400	390	194	47
Mar. 1-10	12,720	1.35	140	12	.08	104	34	155	8.7	226	394	103	.3	4.7	.3	927	1.26	31,800	400	214	47
Mar. 12-20	12,960	2.64	129	12	.08	89	29	151	7.4	222	324	106	.3	4.5	.3	833	1.13	29,100	341	159	50
Mar. 21-24, 27-31	15,050	2.07	128	18	.08	97	30	141	6.8	244	322	99	.3	1.8	.4	836	1.14	34,000	366	166	46
Apr. 1-8, 10	18,000	1.85	110	16	.04	90	28	109	4.8	236	267	81	.4	1.5	.2	714	.97	34,700	340	146	42
Apr. 11-20	21,220	1.97	95.2	14	.04	82	24	85	5.0	215	228	59	.3	3.5	.4	607	.83	34,800	303	127	39
Apr. 21-26, 28-30	21,800	1.82	94.1	14	.06	82	25	83	4.3	218	226	58	.3	2.5	.3	603	.82	35,500	308	129	38
May 1, 2, 4-10	57,400	2.80	78.7	14	.04	78	20	63	5.1	216	180	38		1.5	.6	506	.69	78,400	276	100	34
May 11-20	99,200	2.00	52.6	15	.02	58	15	32	3.8	173	105	18	.4	.5	.1	333	.45	89,200	206	64	27
May 21-31	85,800	1.55	51.3	15	.08	56	14	34	3.2	167	106	17	.2	.2	.1	328	.45	76,000	198	60	28
June 1-10	72,200	1.04	48.1	14	.10	54	13	29	4.2	165	89	19	.2	.2	.1	304	.41	59,300	188	54	27
June 11-20	63,900	1.26	60.1	15	.06	65	16	40	3.8	168	144	22	.2	.6	.1	389	.53	67,100	228	90	29
June 21, 23-30	70,600	.91	50.5	15	.06	58	14	30	3.8	174	91	18	.2	.6	.3	316	.43	60,200	202	60	26
July 3-4, 6-8, 10	41,200	.28	51.7	13	.06	54	14	35	3.0	154	99	25	.2	.4	.3	320	.44	35,600	192	66	29
July 11, 13-15, 18	25,900	.20	62.5	14	.02	62	16	45	3.2	164	131	35	.2	1.9	.6	389	.53	27,200	220	86	32
July 21-22,24,26-28, 30-31	19,290	.42	88.9	17	.01	84	23	75	4.6	187	230	51	.3	2.4	.4	579	.79	30,200	304	150	36
Aug. 1-4, 6-10	11,110	.16	105	16	.02	87	28	99	4.6	166	272	82	.3	2.4	.4	683	.93	20,500	332	180	40
Aug. 12, 16-18, 20	18,450	3.21	153	19	.08	142	38	151	6.6	230	516	85	.4	.2	.6	1,072	1.46	53,400	510	322	40
Aug. 21-25, 28-31	12,580	1.08	145	19	.24	129	38	137	7.9	222	454	91	.6	1.6	.6	988	1.34	33,600	478	296	39
Sept. 1-5, 8-10	7,030	.53	149	17	.04	118	39	155	8.0	225	423	118	.4	3.0	.4	992	1.35	18,830	455	270	43
Sept. 11-19	9,010	1.50	161	17	.04	124	39	177	7.8	232	473	125	.4	3.3	.4	1,081	1.47	26,500	470	280	46
Sept. 22-25, 27-30	17,170	1.74	157	14	.02	135	39	157	7.2	214	508	101	.4	1.0	.4	1,068	1.45	49,500	498	322	41
Weighted average	23,400	-	85.6	15	.09	79	22	76	5.1	193	214	53	.3	1.6	.3	561	.76	35,400	288	130	37

Colorado River below Boulder Dam, Ariz.-Nev.

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Suspended matter (percent)	Specific conductance (K x 10^6 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Total	Hardness as $CaCO_3$: Noncarbonate	Percent sodium
Oct. 1-10, 1940	13,360	-	115	13	0.08	112	28	100	6.4	155	360	78	0.2	3.1	0.3	777	1.06	28,000	394	268	36
Oct. 11, 14-18	13,450	-	114	13	.12	114	28	99	6.7	153	360	78	.2	2.9	.3	777	1.06	28,200	400	274	36
Oct. 21-31	12,120	-	115	13	.06	113	28	98	6.4	153	360	78	.2	3.0	.3	775	1.05	25,400	397	272	36
Nov. 1-9	13,300	-	114	12	.09	113	28	99	5.4	155	359	77	.3	2.5	.2	773	1.05	27,800	397	270	36
Nov. 11-20	13,170	-	115	11	.10	115	28	99	5.4	155	361	77	.3	2.5	.2	776	1.06	27,600	402	275	36
Nov. 21-30	12,640	-	113	11	.06	115	28	92	6.8	153	361	77	.4	3.1	.3	770	1.05	26,300	402	276	34
Dec. 1-10	12,700	-	113	11	.06	115	28	93	6.4	152	361	79	.4	3.1	.3	772	1.05	26,500	402	278	34
Dec. 11-13, 15-20	14,280	-	115	11	.06	115	28	96	6.8	154	363	78	.3	3.1	.3	777	1.06	30,000	402	276	35
Dec. 22-24, 26-27, 30	11,950	-	114	13	.08	117	30	99	6.4	154	373	80	.4	3.0	.3	798	1.09	25,700	410	290	35
Jan. 1-10, 1941	10,030	-	116	14	.06	116	28	99	6.0	154	368	83	.4	2.8	.3	793	1.08	21,480	404	278	35
Jan. 12-17, 19-20	8,750	-	118	12	.06	116	31	94	6.4	157	371	83	.4	2.6	.3	794	1.08	18,760	417	288	34
Jan. 21-24, 26-31	9,930	-	115	11	.04	118	32	94	9.0	159	372	85	.2	4.0	.2	804	1.09	21,560	426	296	34
Feb. 1-7, 9-10	8,380	-	118	12	.04	116	32	96	8.7	162	374	86	.3	4.2	.2	809	1.10	18,300	421	288	34
Feb. 11-14, 16-19	9,260	-	122	11	.04	115	30	107	6.4	165	374	88	.3	3.6	.3	817	1.11	20,430	410	276	37
Feb. 20-21, 23-28	9,440	-	123	14	.04	114	30	110	5.8	169	370	92	.3	3.7	.3	823	1.12	20,980	408	270	38
Mar. 1-5, 7-8, 10	9,010	-	123	12	.04	114	30	112	5.8	169	370	93	.3	3.9	.3	824	1.12	20,050	408	270	38
Mar. 11-14, 16-20	9,270	-	120	10	.04	113	29	106	5.8	160	368	87	.3	3.2	.3	801	1.09	20,050	401	270	37
Mar. 21, 24-28, 30-31	8,680	-	119	14	.04	116	28	102	5.4	157	369	84	.3	2.8	.3	799	1.09	18,730	404	276	36
Apr. 1-10	9,550	-	120	12	.04	114	29	105	5.1	159	368	85	.3	3.1	.3	800	1.09	20,630	404	273	37
Apr. 11-18, 20	8,320	-	118	11	.04	115	28	103	5.1	155	369	84	.3	2.9	.3	795	1.08	17,860	402	275	36
Apr. 21-25, 27-30	8,260	-	119	12	.04	114	28	102	6.1	156	367	84	.3	2.9	.3	793	1.08	17,690	400	272	37
May 1-2, 4-10	14,320	-	119	10	.04	115	28	104	5.4	156	368	84	.3	3.2	.3	795	1.08	30,700	402	274	37
May 11-20	25,500	-	119	12	.04	115	28	103	5.1	158	368	85	.3	2.7	.3	797	1.08	54,900	402	272	36
May 21-24, 26-31	29,600	-	119	10	.06	113	29	104	6.1	158	367	84	.3	3.1	.2	794	1.08	63,500	401	272	37
June 1-6, 8-10	33,400	-	119	11	.06	114	28	101	5.8	154	367	82	.3	2.8	.2	788	1.07	71,100	400	274	36
June 11-20	33,400	-	118	11	.06	113	28	102	5.3	154	367	83	.3	3.2	.2	789	1.07	71,200	397	271	37
June 21-27, 29-30	24,500	-	118	10	.08	113	28	100	5.4	152	365	81	.3	3.3	.2	781	1.06	51,700	397	272	36
July 1-7, 9-10	16,770	-	117	11	.06	112	28	101	5.0	154	365	82	.2	3.1	.2	783	1.06	35,300	394	268	36
July 11-20	14,780	-	116	11	.06	111	28	102	5.3	154	361	82	.3	2.8	.2	779	1.06	31,100	392	266	37
July 21-29, 31	14,900	-	116	11	.06	109	27	101	5.8	154	358	79	.2	2.6	.2	770	1.05	31,000	383	257	37
Aug. 1-10	17,860	-	113	10	.04	106	27	97	9.3	152	347	77	.5	3.2	.5	752	1.02	36,300	376	251	37
Aug. 11-15, 17,19-20	25,010	-	108	9.6	.02	102	25	90	7.5	146	328	71	.5	2.8	.4	708	.96	47,800	358	238	36
Aug. 21,23,25-29,31	26,500	-	105	11	.02	99	25	86	7.5	145	321	69	.4	2.5	.4	693	.94	49,600	350	231	36
Sept. 1-10	27,900	-	104	11	.04	98	25	85	7.5	143	315	68	.5	3.5	.4	684	.93	51,500	348	230	36
Sept. 11-12,14-17 19-20	25,500	-	105	12	.02	96	25	91	7.0	146	317	68	.4	3.2	.5	692	.94	47,600	342	223	38
Sept. 22-26, 28-30	26,100	-	105	12	.04	94	25	94	7.6	147	316	68	.5	2.9	.5	692	.94	48,800	338	217	39
Weighted average	16,200	-	114	11	.05	110	28	98	6.4	153	355	79	.3	3.0	.3	766	1.04	33,500	390	264	36

San Juan River at Shiprock, N. Mex.[a]

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Suspended matter (percent)	Specific conductance (K x 10^6 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Total	Hardness as $CaCO_3$: Noncarbonate	Percent sodium
Feb. 1-10, 1941	939	0.64	92.6	13	0.14	93	17	87	3.7	180	307	20	0.3	2.4	0.3	632	0.86	1,603	302	154	39
Feb. 11-19	1,617	2.48	90.9	16	.04	79	13	102	4.2	195	282	17	.4	3.8	.3	614	.84	2,680	250	90	48
Feb. 20, 21, 24-28	3,003	2.24	77.0	12	.04	72	12	80	3.8	189	223	14	.5	3.8	.3	514	.70	4,170	229	74	44
Mar. 1-4, 6-10	1,834	2.60	71.6	11	.06	75	17	56	3.5	170	211	15	.4	3.0	.3	476	.65	2,357	257	118	33
Mar. 11, 13-20	2,441	2.12	70.9	12	.04	69	16	61	3.7	166	209	13	.5	2.8	.3	469	.64	3,090	238	101	36
Mar. 21-25, 27-28	3,864	1.94	66.8	18	.06	72	16	51	4.3	191	177	8.0	.4	2.2	.5	443	.60	4,620	246	89	32
Apr. 1-10	4,506	1.04	53.8	16	.08	63	17	28	4.2	164	134	7.0	.3	2.1	.4	352	.48	4,260	227	92	23
Apr. 11, 12, 14-20	4,839	.44	51.3	15	.04	58	16	26	4.0	157	126	6.0	.3	1.7	.3	330	.45	4,310	210	82	23
Apr. 21-30	7,788	1.32	56.6	16	.10	63	15	36	3.7	175	138	6.6	.4	1.5	.1	366	.50	7,700	218	75	27
May 1-10	19,020	1.35	47.2	14	.41	54	9.8	27	4.8	159	97	4.6	.5	.4	.1	291	.40	14,900	176	45	27
May 12-20	24,760	.82	32.3	15	.14	44	6.6	12	2.6	130	49	2.8	.4	.6	.2	197	.27	13,200	137	30	18
May 21, 23-28, 30-31	15,970	1.51	38.3	15	.07	41	5.8	21	3.0	125	65	3.8	.4	.8	.1	217	.30	9,360	126	24	28
June 1-7, 9-10	14,880	.40	29.5	13	.13	37	5.8	14	2.4	110	49	2.9	.3	.6	.1	179	.24	7,190	116	26	22
June 11, 13, 14, 16-17	13,880	.39	27.6	14	.06	36	6.2	12	2.8	109	44	2.6	.2	.8	.1	172	.23	6,450	116	26	20
June 22-23, 25-28, 30	17,870	.44	23.4	12	.15	32	4.4	10	1.0	94	35	2.2	.2	.6	.1	144	.20	6,950	98	21	19
July 1-3, 5-10	11,740	.25	20.6	12	.22	26	3.9	9.3	1.5	75	34	2.4	.2	.6	.1	127	.17	4,030	81	20	21
July 11-19	8,381	.90	22.8	12	.20	28	4.6	12	1.0	76	43	3.0	.4	.6	.1	142	.19	3,210	89	26	24
July 22-23, 28-31	5,182	3.25	33.5	13	.11	41	6.5	16	3.4	108	67	5.5	.1	.7	.2	207	.28	2,900	129	40	24
July 25-26	5,685	1.81	49.3	-	.23	54	8.5	77		143	203	6	-	.7	-	420	.57	6,450	170	53	50
Aug. 1-2, 4-5, 6-7	2,375	1.82	47.8	13	.12	53	9.7	31	3.8	125	122	10	.2	.6	.2	305	.41	1,956	172	70	30
Aug. 9-10	5,220	5.32	118	-	.58	111	15	206		256	531	17	-	.3	-	1,007	1.37	14,200	338	128	57
Aug. 11, 13-15, 17-20	2,667	-	56.8	-	-	65	10	46		170	140	11	.3	.8	-	357	.49	2,570	203	64	33
Aug. 21-29	1,243	-	57.3	-	-	65	12	41		150	151	14	.3	1.0	-	358	.49	1,201	212	88	30
Sept. 2-9	817	-	69.8	-	-	73	15	59		160	205	18	.3	1.0	-	450	.61	992	244	112	35
Sept. 11-12, 15-16, 19-20	2,646	-	78.8	-	-	78	13	81		193	231	16	.5	.8	-	515	.70	3,680	248	90	41
Sept. 21-22, 24-30	5,784	-	61.0	-	-	68	10	52		174	158	10	.4	1.2	-	385	.52	6,010	210	68	35

[a] Samples collected at highway bridge about 3 miles above gaging station.

San Juan River near Bluff, Utah

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Suspended matter (percent)	Specific conductance (K x 10^3 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Total	Hardness as $CaCO_3$: Noncarbonate	Percent sodium
Oct. 1-10, 1940	4,410	3.75	81.6	17	0.11	95	18	65	5.1	217	245	13	0.4	1.9	0.1	567	0.77	6,760	311	133	32
Oct. 11-20	1,653	.69	66.7	15	.11	80	16	40	4.2	160	198	12	.4	1.9	.1	446	.61	1,991	266	134	26
Oct. 21-31	1,169	.89	87.8	14	.13	96	23	69	4.0	173	297	18	.4	2.7	.1	609	.83	1,922	334	192	32
Nov. 1-4, 6-10	920	.63	96.4	14	.11	105	26	75	4.5	181	334	20	.4	3.5	.2	672	.91	1,669	369	220	31
Nov. 11-14, 16-20	1,268	.64	96.3	14	.13	101	26	78	3.7	179	337	20	.4	3.5	.2	672	.91	2,300	359	212	33
Nov. 21-30	1,169	.81	99.1	15	.11	98	24	92	4.2	178	351	21	.4	3.2	.2	697	.95	2,200	343	197	37
Dec. 1-5, 7-10	865	.64	98.7	13	.13	104	27	79	3.7	174	353	21	.3	2.6	.2	689	.94	1,610	370	228	32
Dec. 11-13, 15-20	1,273	1.21	97.1	14	.20	91	23	95	4.2	183	331	21	.4	3.1	.2	673	.92	2,313	322	172	40
Dec. 21-31	1,784	2.00	97.8	15	.04	90	23	99	12	201	331	23	.4	5.6	.2	698	.95	3,360	319	154	42
Jan. 1-10, 1941	1,420	1.64	106	14	.04	99	24	108	11	209	369	24	.4	6.8	.2	759	1.03	2,910	346	124	42
Jan. 11-20	1,170	.79	104	13	.04	98	24	101	10	194	368	24	.4	6.1	.2	740	1.01	2,340	343	134	40
Jan. 21-31	1,210	.74	101	12	.04	98	26	91	9.9	188	358	25	.4	5.7	.2	719	.98	2,350	352	198	37
Feb. 1-10	1,254	1.28	112	14	.08	104	27	112	9.9	200	389	25	.4	6.0	.2	786	1.07	2,660	370	206	41
Feb. 11-19	1,743	2.26	116	16	.08	105	29	115	9.0	218	397	23	.4	7.2	.2	809	1.10	3,810	381	202	41
Feb. 20-28	3,960	2.12	97.0	14	.08	86	19	104	8.7	213	301	18	.5	7.1	.2	663	.90	7,090	292	118	45
Mar. 1-10	2,249	2.26	93.7	13	.08	92	23	86	7.4	198	302	18	.4	6.2	.2	646	.88	3,920	324	162	38
Mar. 11-20	3,300	2.95	91.6	12	.08	85	23	85	7.0	186	298	19	.4	4.5	.2	626	.85	5,560	306	154	39
Mar. 21,22,24-27,29	4,640	1.65	75.2	17	.04	73	18	64	5.0	191	217	13	.5	2.8	.6	504	.69	6,310	256	100	36
Apr. 1-3, 6-8, 10	4,850	1.66	68.1	17	.04	74	19	45	5.4	182	187	10	.4	1.5	.5	449	.61	5,880	262	108	29
Apr. 11-20	5,390	1.42	60.1	18	.06	65	18	38	4.5	145	167	9.0	.5	1.5	.3	393	.53	5,720	236	117	27
Apr. 21-30	9,540	3.93	81.6	15	.04	84	21	55	6.4	156	205	11	.6	2.0	.6	477	.65	12,290	296	168	30
May 1-5, 7-10	20,850	2.55	76.2	15	.02	100	17	39	6.1	224	146	7.5	-	.5	.4	441	.60	24,830	320	136	23
May 11-20	26,400	2.09	57.9	18	.04	68	12	30	5.6	184	102	6.0	-	1.0	.5	333	.45	23,750	219	68	25
May 21-31	17,670	2.56	49.3	14	.02	57	10	33	4.6	144	123	6.5	.3	2.5	.2	322	.44	15,360	183	65	30
June 1-10	14,870	1.08	36.6	14	.02	46	8.6	19	3.8	118	81	5.0	.4	1.5	.3	237	.32	9,520	150	59	24
June 11-20	13,480	.82	36.4	15	.04	46	8.7	17	3.0	128	72	4.2	.3	.7	.2	230	.31	8,370	151	46	21
June 21-30	17,790	.81	30.7	13	.02	42	6.8	13	3.0	117	53	3.2	.3	.9	.2	193	.26	9,270	133	37	20
July 1-10	11,590	.64	31.7	12	.06	43	6.7	14	2.9	116	58	3.5	.3	1.1	.1	199	.27	6,230	135	40	20
July 11-18	8,660	.21	31.4	13	.08	41	7.0	16	2.7	105	65	4.0	.3	1.1	.1	202	.27	4,720	132	46	23
July 21-31	5,700	.58	41.8	14	.12	48	9.3	26	4.3	119	104	6.0	.3	1.2	.1	272	.37	4,190	158	60	28
Aug. 1-9	3,140	1.51	54.7	14	.14	60	13	38	4.0	126	159	11	.3	.7	.2	363	.49	3,080	203	100	30
Aug. 11, 17-20	4,050	3.81	93.2	22	.18	86	20	89	5.0	204	295	16	.3	.2	.6	634	.86	6,930	296	130	40
Aug. 21-22, 24-31	1,428	.27	72.9	19	.02	76	18	52	3.7	155	224	15	.3	2.4	.2	487	.66	1,880	264	136	31
Sept. 1-6, 8-10	785	.16	90.8	17	.02	90	26	72	4.3	162	318	20	.4	2.0	.3	630	.86	1,336	332	198	33
Sept. 11-20	2,970	3.43	113	17	.10	109	27	106	4.5	196	409	23	.4	.9	.4	794	1.08	6,360	363	222	38
Sept. 21-30	6,440	2.67	85.9	17	.56	91	18	67	4.3	161	280	13	.5	1.2	.2	577	.78	10,040	301	169	33
Weighted average	5,860	-	60.3	15	.07	68	14	41	4.8	160	154	8.8	.4	1.7	3	387	.53	6,120	227	96	30

Animas River at Farmington, N. Mex.

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Suspended matter (percent)	Specific conductance (K x 10^5 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Total	Hardness as $CaCO_3$: Noncarbonate	Percent sodium
June 1-10, 1940	1,573	-	28.6	8.0	0.08	38	5.4	9.8	2.4	72	68	6.0	0.4	1.2	0.0	175	0.24	743	117	58	17
June 11-20	879	-	38.1	8.4	.08	50	7.0	17	2.9	91	95	10	.4	1.1	.1	237	.32	502	154	80	21
June 21-30	499	-	51.0	8.6	.08	67	9.7	24	3.5	118	137	14	.5	.9	.1	323	.44	435	207	110	21
July 1-10	276	-	65.5	9.8	.13	85	13	36	3.5	153	187	20	.2	1.1	.6	431	.59	322	266	140	24
July 11-12, 15-20	96.5	-	93.4	11	.15	121	19	61	4.0	196	308	26	.2	1.6	.6	649	.88	169	380	220	27
July 21-31	87.5	-	102	16	.18	130	23	64	4.6	207	338	29	.7	1.5	.6	709	.96	168	419	250	26
Aug. 1-10	51.1	-	118	16	.19	150	26	83	4.8	215	428	31	.7	1.0	.7	847	1.15	117	482	306	28
Aug. 11-20	21.0	-	132	16	.19	173	32	86	3.8	229	499	33	.7	1.5	.8	958	1.30	54	563	376	25
Aug. 21-31	268	-	88.8	18	.24	111	17	60	4.2	215	257	25	.7	1.5	.6	601	.82	436	347	171	28
Sept. 1-10	97.0	-	98.5	13	.18	128	22	60	3.8	199	324	29	.7	1.1	.6	680	.92	178	410	247	25
Sept. 11-19	250	-	110	13	.12	142	24	71	6.2	210	381	30	.6	1.2	.8	773	1.05	522	453	281	26
Sept. 21-30	811	-	48.4	9.4	.07	66	9.1	21	2.9	126	124	12	.4	1.7	.4	310	.42	678	202	94	19

Animas River at Farmington, N. Mex. - Continued

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Suspended matter (percent)	Specific conductance (K x 10^5 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Hardness as $CaCO_3$: Total	Hardness as $CaCO_3$: Noncarbonate	Percent sodium
Oct. 1-10, 1940	1,093	0.18	41.8	8.6	0.06	60	9.0	15	4.6	130	100	9.0	0.6	1.4	0.1	272	0.37	803	186	80	17
Oct. 11-20	570	.03	52.4	9.2	.06	74	11	21	4.2	135	142	13	.6	1.2	.1	343	.47	528	230	119	18
Oct. 21-31	352	.02	66.0	10	.06	91	14	31	4.3	156	194	17	.6	1.1	.2	440	.60	418	284	156	20
Nov. 1-10	302	.01	71.9	10	.06	99	15	36	4.6	169	212	20	.6	1.0	.2	482	.66	393	308	170	22
Nov. 11-20	309	.02	75.2	11	.06	103	16	40	4.8	175	225	22	.6	1.4	.2	510	.69	425	323	180	22
Nov. 21-30	329	.02	71.2	10	.04	98	15	39	3.7	167	212	21	.5	1.5	.2	483	.66	429	306	169	23
Dec. 1-10	298	.01	72.0	10	.06	100	15	38	4.3	169	215	21	.5	1.4	.2	489	.66	303	311	172	22
Dec. 11-20	315	.02	79.2	12	.06	107	18	47	5.6	180	248	23	.5	1.9	.3	562	.76	479	341	194	24
Dec. 21-31	308	.03	81.6	11	.06	106	18	54	4.8	182	263	25	.5	1.9	.3	574	.78	478	338	190	27
Jan. 1-10, 1941	279	.06	81.6	11	.06	106	17	45	5.4	193	244	25	.5	2.4	.2	551	.75	415	334	176	24
Jan. 11-20	292	.04	80.8	12	.06	109	18	47	4.8	188	252	25	.5	2.3	.2	563	.77	443	346	192	24
Jan. 21-31	305	.03	78.6	12	.06	106	18	48	4.6	182	250	24	.5	1.9	.2	555	.75	457	338	190	25
Feb. 1-9	302	.03	85.3	10	.04	111	19	50	4.8	188	266	25	.5	2.1	.3	581	.79	474	355	201	24
Feb. 11-19	362	.16	82.2	10	.04	102	16	53	4.2	184	249	22	.5	2.1	.3	549	.75	536	320	164	27
Feb. 20-28	526	.30	70.1	10	.04	86	15	45	3.7	178	194	19	.4	2.8	.3	464	.63	659	276	130	27
Mar. 1-3, 5-10	494	.18	70.3	14	.04	91	16	39	3.7	179	195	20	.4	2.8	.3	470	.64	626	293	146	23
Mar. 11-19	622	.55	67.3	10	.04	80	14	45	3.7	175	181	18	.4	2.5	.3	441	.60	741	257	114	28
Mar. 21-31	794	.26	60.1	14	.06	75	16	31	4.2	176	147	15	.3	2.1	.3	391	.53	838	253	109	22
Apr. 1-10	942	.11	53.1	12	.04	69	15	23	3.5	167	122	11	.3	1.8	.4	340	.46	865	234	96	19
Apr. 11-20	909	.09	52.0	11	.06	68	14	23	3.7	160	122	10	.3	1.4	.3	332	.45	815	227	96	19
Apr. 21-30	1,457	.39	57.0	11	.14	72	15	27	4.5	175	137	8.8	.6	2.4	.2	365	.50	1,436	241	98	21
May 1-10	4,610	.51	41.9	11	.06	60	9.0	13	3.2	171	67	3.9	.4	1.7	.1	253	.34	3,150	186	46	15
May 11-20	8,119	.19	31.6	8.2	.05	48	6.0	7.0	2.2	133	44	2.5	.4	1.3	.1	185	.25	4,080	144	36	11
May 21-30	4,596	.05	29.0	7.4	.05	41	6.3	7.8	1.7	111	49	3.5	.4	1.1	.2	173	.24	2,147	128	38	13
June 1-10	4,824	.05	26.2	7.4	.06	36	5.7	6.3	2.7	97	42	3.0	.3	1.0	.2	152	.21	1,980	114	34	13
June 12-19	5,050	.06	28.4	7.4	.05	38	5.8	7.7	1.3	105	42	2.9	.5	1.2	.1	159	.22	2,168	119	33	13
June 21, 23-30	7,544	.07	21.6	6.5	.13	32	4.1	5.8	2.4	84	33	2.0	.5	1.0	.2	129	.18	2,630	97	28	14
July 1-4, 6, 8-10	4,301	.02	21.0	6.3	.08	29	4.1	6.9	1.1	69	38	2.9	.5	1.1	.2	124	.17	1,540	90	33	16
July 14-20	3,167	.02	26.7	6.4	.06	36	5.4	10	2.6	80	55	5.0	.5	1.0	.1	161	.22	1,377	112	46	18
July 21-31	1,982	.01	31.8	7.0	.02	41	6.0	11	3.0	87	71	6.5	.2	1.3	.1	190	.26	1,017	127	56	18
Aug. 1, 3-10	966	.07	47.2	9.2	.02	58	8.1	25	2.7	121	115	11	.1	1.0	.2	290	.39	756	178	79	25
Aug. 11-20	980	.03	46.5	9.2	.02	60	9.0	20	2.7	126	110	12	.1	1.3	.2	286	.39	757	186	83	20
Aug. 21-23, 25-31	445	.01	62.3	11	.02	82	14	32	3.5	154	171	18	.5	1.0	.2	409	.56	491	262	136	22
Sept. 1-3,5,7-10	213	.00	79.5	12	.01	105	17	45	3.8	184	239	23	.4	1.1	.3	537	.73	309	332	181	24
Sept. 13-20	790	.39	63.9	12	.14	86	12	35	3.6	170	175	15	.4	1.0	.2	424	.58	905	264	124	23
Sept. 21-27, 29-30	2,163	.28	43.1	9.2	.03	60	7.3	18	2.7	124	105	7.0	.3	1.5	.2	272	.37	1,589	180	78	19
Weighted average	1,699	-	36.7	8.4	.06	50	7.7	14	2.6	120	76	6.2	.4	1.3	.2	226	.31	1,037	156	58	18

Gila River at Safford, Ariz.

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Specific conductance (K x 10^6 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Percent sodium
Aug. 30, 31, 1940	26	96	-	-	65	16	111		229	42	167	1.1	-	-	515	0.70	36	51
Sept. 1, 3-10	628	65	-	-	45	11	73		170	41	94	.7	-	-	348	.47	590	50
Sept. 11-20	37	94	-	-	63	13	116		221	41	168	.6	-	-	510	.69	51	54
Sept. 21-30	265	75	-	-	44	9.8	102		181	58	114	.9	-	-	418	.57	299	60
Oct. 1-5, 7-10	183	74.1	-	0.10	58	13	83		219	39	109	1.2	1.5	-	413	.56	204	48
Oct. 11-20	53	97.4	-	.10	63	14	129		235	54	171	1.4	1.0	-	550	.75	79	57
Oct. 21-31	53	109	-	.10	69	15	119		242	50	169	1.4	.5	-	543	.74	78	53
Nov. 1-10	99	103	-	.20	66	15	133		234	51	188	1.9	.5	-	571	.78	153	56
Nov. 11-20	292	83.6	-	.10	54	14	106		219	47	133	1.9	1.5	-	466	.63	367	54
Nov. 21-30	348	60.6	-	.10	46	13	62		164	49	82	.6	1.5	-	335	.46	315	45
Dec. 1-10	252	73.2	-	.10	52	14	83		207	37	110	1.6	.5	-	400	.54	272	49
Dec. 11-20	1,282	42.5	-	.20	38	9.8	38		141	33	46	.9	1.7	-	237	.32	820	38
Dec. 21-30	2,550	39.7	-	.20	36	9.6	36		129	38	41	1.0	1.0	-	226	.31	1,556	37
Jan. 2-10, 1941	2,940	42.0	-	.10	38	9.9	39		139	40	44	1.0	1.0	-	242	.33	1,921	39
Jan. 11-20	1,357	40.6	-	.20	37	9.4	40		132	43	43	.9	2.0	-	240	.33	879	40
Jan. 21-28	1,038	53.0	-	.18	45	12	54		154	57	63	1.0	2.0	-	310	.42	869	42
Jan. 29-31	3,960	27.3	-	.28	33	8.6	16		125	29	12	.8	1.4	-	163	.22	1,743	23
Feb. 1, 2, 8-10	2,970	30.2	-	.26	31	8.0	22		115	32	19	1.1	2.0	-	172	.23	1,379	31
Feb. 3-7	1,298	43.8	-	.15	38	10	41		134	45	46	1.1	1.4	-	249	.34	873	40
Feb. 11-19	1,972	33.4	-	.29	32	8.6	33		134	35	27	.8	2.0	-	205	.28	1,092	39
Feb. 20-28	2,422	29.7	-	.48	29	8.5	24		112	30	23	.6	2.0	-	173	.24	1,131	32
Mar. 1-10	1,817	33.4	-	.47	30	8.8	31		115	38	29	.6	1.6	-	196	.27	962	37
Mar. 11-14	1,315	40.5	-	.33	35	9.6	39		130	42	41	1.0	1.6	-	234	.32	831	40
Mar. 15-20	6,010	26.0	-	.30	29	7.3	20		117	25	14	.8	2.0	-	156	.21	2,530	30
Mar. 21-31	2,085	31.2	-	.35	30	8.4	25		113	29	28	.4	1.0	-	178	.24	1,002	33
Apr. 1-10	1,472	35.2	-	.40	32	9.0	32		123	34	34	.3	1.2	-	204	.28	811	37
Apr. 11-20	1,010	41.5	-	.33	34	11	40		140	36	45	.4	1.6	-	237	.32	646	40
Apr. 21-26	871	47.6	-	.31	38	11	50		146	42	58	1.0	1.4	-	274	.37	644	44
Apr. 27-30	3,390	26.8	-	.46	30	8.0	19		117	26	17	.6	1.0	-	160	.22	1,464	28
May 1-10	2,540	27.1	-	.36	27	8.2	20		107	24	22	.4	.8	-	156	.21	1,070	30
May 11-20	1,464	31.1	-	.32	29	8.2	29		113	26	33	.6	.8	-	183	.25	723	37
May 21-24, 26-31	741	48.9	-	.23	40	12	50		163	34	60	1.0	.8	-	276	.38	556	42
June 1-10	252	71.7	-	.12	52	14	87		197	50	113	1.0	2.0	-	416	.57	283	50
June 11-14, 16-20	85	120	-	.15	70	20	159		226	97	220	1.7	1.8	-	681	.93	156	57
June 21, 26-30	70	121	-	.20	78	19	156		252	94	212	1.5	4.0	-	689	.94	130	55
June 23-25	31	205	-	.15	80	29	325		246	190	438	2.2	3.6	-	1,189	1.62	100	69

July 1-10, 1941	32	149	-	0.15	82	23	202	238	122	290	1.7	2.0	-	840	1.14	73	59
July 11-16	11	160	-	.15	86	26	224	241	137	328	2.0	1.4	-	923	1.26	27	60
July 17-20	144	88.4	-	.12	50	12	123	207	71	138	1.0	1.8	-	499	.68	194	61
July 21-31	195	80.3	-	.12	61	15	94	218	52	127	1.6	1.8	-	460	.63	242	49
Aug. 1-10	215	110	-	.12	62	17	150	215	88	198	1.0	2.0	-	624	.85	362	59
Aug. 11-20	724	83.3	-	.12	51	12	111	199	72	123	1.4	2.0	-	471	.64	921	58
Aug. 21-31	380	60.5	-	.08	46	10	70	185	40	79	.9	1.6	-	339	.46	348	49
Sept. 1-10	239	80.2	-	.16	61	14	92	231	48	117	1.6	1.5	-	449	.61	290	49
Sept. 11-20	21	103	-	.16	69	16	129	238	70	173	1.7	3.0	-	579	.79	33	54
Sept. 21-28	392	94.9	-	.24	64	17	112	224	54	161	1.2	3.0	-	523	.71	554	51
Sept. 29, 30	14,790	40.6	-	.12	43	11	32	197	31	17	1.2	.8	-	233	.32	9,300	31

Gila River at Fort Thomas, Ariz.

Aug. 29, 1940	49	214	-	-	124	33	291	313	188	442	1.2	-	-	1,233	1.68	163	59
Aug. 31	28	357	-	-	207	59	507	392	344	835	1.8	-	-	2,147	2.92	162	59
Sept. 3	70	133	-	-	79	20	168	204	137	235	1.0	-	-	740	1.01	140	57
Sept. 7	2,540	36	-	-	32	9.4	39	182	20	24	.2	-	-	215	.29	1,474	42
Sept. 9	261	84	-	-	54	16	50	162	40	95	-	-	-	335	.46	236	35
Sept. 12	98	139	-	-	90	41	134	258	100	262	-	-	-	754	1.03	200	43
Sept. 14	48	218	-	-	110	35	322	302	193	475	-	-	-	1,284	1.75	166	63
Sept. 28	18	330	-	-	168	53	486	273	328	800	-	-	-	1,970	2.68	96	62

Gila River at Fort Thomas, Ariz. - Continued

Date of collection	Mean discharge (second-feet)	Specific conductance (K x 10^5 at 25°C.)	Chloride (Cl)	Date of collection	Mean discharge (second-feet)	Specific conductance (K x 10^5 at 25°C.)	Chloride (Cl)	Date of collection	Mean discharge (second-feet)	Specific conductance (K x 10^5 at 25°C.)	Chloride (Cl)
1940											
Oct. 2	324	53.4	52	Nov. 1	45	207	465	Dec. 2	248	108	187
4	158	92.4	160	4	76	171	350	6	234	119	218
7	96	136	295	8	84	193	390	9	214	121	218
11	29	293	715	11	116	136	255	13	2,300	30.7	14
14	36	312	760	18	171	155	305	16	1,160	41.0	44
19	22	297	605	22	392	60.6	78	20	791	52.6	67
21	45	161	465	29	285	98.4	168	23	625	66.2	95
28	36	239	525					30	1,770	55.2	75
1941											
Jan. 4	3,030	49.2	65	Feb. 3	1,560	52.7	69	Mar. 3	1,960	42.6	47
6	2,000	51.6	89	10	3,130	37.3	35	10	1,210	52.8	69
13	1,730	47.9	66	17	1,710	48.4	62	24	2,270	44.5	55
20	1,040	56.3	104	24	2,720	36.6	37	31	1,330	58.0	83
24	826	79.7	138								
27	810	81.6	123								
29	5,640	33.4	22								
Apr. 7	1,310	56.6	82	May 5	2,320	42.0	53	June 2	389	121	233
14	1,110	65.8	105	9	2,240	39.3	49	6	162	195	462
17	1,010	74.5	119	16	1,440	47.9	69	9	125	254	570
21	936	74.5	117	23	1,090	88.7	158	13	89	299	750
28	3,900	35.3	23	28	590	99.0	171	16	58	407	1,010
								20	30	510	1,380
								23	26	553	1,530
								30	24	575	1,600
July 14	10	658	1,850	Aug. 2	18	488	1,290	Sept. 3	402	65.2	98
21	22	372	890	6	12	589	1,550	6	92	198	445
23	210	69.9	91	13	11	548	1,440	15	78	213	480
28	56	226	470	20	598	71.4	93	22	88	245	505
				25	379	67.2	99	28	1,870	66.8	64
				27	204	119	222				

Gila River near Florence, Ariz.

(Analyses in parts per million)

Date of collection	Mean discharge (second-feet)	Specific conductance (K x 10^6 at 25°C.)	Silica (SiO_2)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Borate (BO_3)	Dissolved solids: Parts per million	Dissolved solids: Tons per acre-foot	Dissolved solids: Tons per day	Percent sodium
1941																		
Jan. 1-10	--	93.8	43	0.02	91	21	78	4.2	195	200	78	0.8	9.0	0.3	621	0.84	--	36
Jan. 11-20	--	98.8	40	.02	87	24	85	4.5	151	242	90	.7	3.7	.2	651	.89	--	38
Jan. 21-31	--	89.9	39	.03	76	21	82	4.2	157	213	76	.9	3.2	.3	593	.81	--	40
Feb. 1-10	--	81.0	36	.02	79	18	67	4.3	202	171	54	.8	3.9	.3	534	.73	--	36
Feb. 11-19	--	96.0	36	.02	92	22	82	4.5	220	208	72	.9	2.9	.3	629	.86	--	38
Feb. 20-28	--	74.3	29	.02	74	17	58	3.8	177	162	46	.7	3.1	.3	481	.65	--	34
Mar. 1-10	--	84.1	31	.01	84	20	65	4.2	197	189	55	.8	2.8	.3	549	.75	--	34
Mar. 11-20	--	70.4	29	.02	79	16	46	4.2	210	134	36	.5	3.4	.2	452	.61	--	29
Mar. 21-31	--	105	32	.02	100	26	86	4.6	240	228	82	.8	4.4	.3	682	.93	--	35
Apr. 1-10	--	95.1	25	.02	93	23	75	4.4	198	214	75	.8	3.6	.2	611	.83	--	34
Apr. 11-20	--	107	24	.07	97	25	95	5.4	138	243	92	.9	2.9	.2	653	.89	--	38
Apr. 21-30	--	95.4	25	.06	79	20	92	5.0	184	191	92	.9	2.0	.2	599	.81	--	42
May 1-10	--	80.8	23	.03	69	17	76	5.1	165	154	78	.8	1.2	.3	505	.69	--	41
May 11-20	--	70.6	24	.01	55	14	70	3.8	156	106	78	.7	1.5	.3	430	.58	--	45
May 21-31	--	67.9	23	.01	53	13	67	3.6	152	97	76	.7	1.7	.3	410	.56	--	45
June 1-10	--	64.9	22	.08	48	12	65	3.4	146	87	76	.7	1.3	.2	387	.53	--	46
June 11-20	--	63.8	22	.12	48	12	65	3.6	142	84	76	.7	1.0	.2	382	.52	--	47
June 21-30	--	60.6	24	.11	45	11	60	3.3	141	73	72	.7	1.1	.2	360	.49	--	46
July 1-10	--	59.9	23	.15	45	11	59	3.4	138	75	70	.7	.9	.2	356	.48	--	46
July 11-20	--	57.5	25	.12	43	10	59	3.6	139	63	70	.7	.9	.2	344	.47	--	47
July 21-31	--	65.0	29	.19	53	13	61	4.6	182	82	60	.7	.6	.1	394	.54	--	43
Aug. 1-5, 7-10	--	62.7	25	.16	56	12	54	5.2	183	71	60	.5	.6	.1	375	.51	--	40
Aug. 11-20	--	66.0	32	.17	57	12	63	6.3	211	99	44	.8	.2	.2	418	.57	--	43
Aug. 21-31	--	63.4	28	.04	48	11	64	5.8	172	71	67	.4	.8	.2	381	.52	--	47
Sept. 1-10	--	61.4	27	.04	46	10	62	5.2	165	63	69	.5	.6	.2	365	.50	--	48
Sept. 11-20	--	64.4	28	.05	50	12	65	5.4	179	84	59	.8	.8	.2	393	.53	--	46
Sept. 21-30	--	62.7	27	.10	50	12	59	5.4	175	75	60	.6	.8	.1	376	.51	--	44
Oct. 1-10	--	79.8	--	--	65	15	82		208	119	76	--	.5	--	--	--		44

Colorado and Gunnison Rivers in Colorado

(Dissolved solids in parts per million and discharge in second-feet)

Date	Colorado River near Cameo, Colo.		Colorado River at Grand Junction, Colo.	Gunnison River near Grand Junction, Colo.	
	Dis-solved solids	Mean dis-charge	Dis-solved solids	Dis-solved solids	Mean dis-charge
1940					
Oct. 1-10	579	2,468	1,224	1,560	1,988
11-20	611	1,938	1,266	1,521	1,275
21-31	777	1,785	1,626	1,650	1,049
Nov. 1-10	793	1,526	1,714	1,475	1,050
11-20	805	1,360	1,560	1,554	1,018
21-30	815	1,403	1,730	1,358	1,065
Dec. 1-10	887	1,313	1,795	1,417	923
11-20	905	1,124	1,772	1,498	854
21-31	918	1,287	1,672	1,438	914
1941					
Jan. 1-10	974	1,009	1,682	1,546	814
11-20	908	1,051	1,702	1,353	844
21-31	846	1,213	1,637	1,347	814
Feb. 1-10	870	1,067	878	1,330	785
11-19	816	1,182	850	1,469	944
20-28	872	1,109	920	1,285	1,013
Mar. 1-10	904	1,165	1,044	1,287	867
11-20	871	1,130	886	1,502	890
21-31	734	1,679	772	1,007	1,306
Apr. 1-10	630	1,889	787	800	1,505
11-20	610	2,097	639	751	1,633
21-30	595	2,727	(a)	686	3,072
May 1-10	364	8,417	(b)	367	11,780
11-20	245	21,120	227	248	19,830
21-31	212	16,610	214	292	11,180
June 1-10	208	14,230	260	346	10,130
11-20	240	11,480	265	332	8,619
21-30	183	14,780	(c)	328	9,650
July 1-10	278	7,048	449	494	4,399
11-20	367	4,893	(d)	722	3,109
21-31	453	3,566	1,936	1,035	1,971
Aug. 1-10	668	2,360	608	458	1,377
11-20	644	2,532	897	1,153	2,331
21-31	688	2,136	1,303	1,582	993
Sept. 1-10	809	1,551	1,350	1,878	751
11-20	674	2,307	1,248	1,477	1,186
21-30	695	2,289	1,103	1,481	2,147
Average	651	4,089	1,016	1,112	3,170
Weighted avg.	398	-	-	618	-

[a] Apr. 21-25, dissolved solids, 568 ppm; Apr. 26-30, dissolved solids, 388 ppm.
[b] May 1-7, dissolved solids, 377 ppm; May 8, dissolved solids, 246 ppm.
[c] June 21-26, dissolved solids, 217 ppm; June 27-30, dissolved solids, 438 ppm.
[d] July 11-12, 14-17, dissolved solids, 485 ppm; July 18-20, dissolved solids, 1,901 ppm.

Colorado and Green Rivers in Utah

(Dissolved solids in parts per million and discharge in second-feet)

Date	Colorado River near Cisco, Utah		Green River at Green River, Utah	
	Dis-solved solids	Mean dis-charge	Dis-solved solids	Mean dis-charge
1940				
Oct. 1-10	1,267	7,406	833	3,345
11-20	1,199	3,785	665	2,236
21-31	1,386	3,341	660	1,871
Nov. 1-10	1,371	3,149	700	1,931
11-20	1,404	2,853	700	1,898
21-30	1,299	3,049	725	1,879
Dec. 1-10	1,322	2,755	745	2,008
11-20	1,440	2,309	777	1,241
21-31	1,382	2,482	831	1,432
1941				
Jan. 1-10	1,435	2,163	770	1,664
11-20	1,376	2,272	768	1,606
21-31	1,315	2,351	700	1,620
Feb. 1-10	1,340	2,318	726	1,577
11-19	1,290	2,899	761	1,749
20-28	1,305	3,092	808	3,560
Mar. 1-10	1,337	2,703	672	3,996
11-20	1,268	2,718	723	2,322
21-31	1,091	4,535	821	4,159
Apr. 1-10	666	6,112	545	5,579
11-20	772	6,217	516	5,556
21-30	750	10,100	589	4,670
May 1-10	364	32,170	466	11,770
11-20	279	50,840	375	20,970
21-31	311	32,490	365	23,950
June 1-10	328	28,140	(a)	
11-20	382	22,960	367	19,900
21-30	317	28,680	307	16,900
July 1-10	403	13,270	368	8,505
11-20	571	9,236	544	5,227
21-31	769	6,094	560	3,945
Aug. 1-10	1,292	3,876	564	3,062
11-20	1,137	5,477	933	5,310
21-31	1,328	2,985	798	4,649
Sept. 1-10	1,831	1,858	686	3,191
11-20	1,670	3,360	733	2,609
21-30	1,036	6,708	802	3,371
Average	1,056	9,085	640	5,860
Weighted avg.	610		505	

[a] June 1-6, dissolved solids, 298 parts per million; June 7-10, dissolved solids, 478 parts per million.

Lake Mead, Ariz.-Nev.

(Analyses in parts per million)

Mile 267.5

Date	Depth (feet)	Elevation (feet)	Temp. (°F.)	Specific conductance (K x 10^6 at 25°C.)	Calcium (Ca)	Magnesium (Mg)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Condition of sample
1941 June 5	Surface	1,203.5	68.9	45.0	46	17	115	105	40	
	25	1,178.5	68.6	43.3	-	-	119	-	-	
	50	1,153.5	68.2	41.4	43	15	119	88	17	Very cloudy.
	75	1,128.5	68.2	42.2	-	-	125	-	-	Very cloudy.
	95	1,108.5	68.0	43.3	49	16	133	90	19	Very cloudy.
Emery Falls, mile 275.8										
June 4	Surface	1,203	72.0	47.4	48	16	118	109	20	Slightly cloudy.
	25	1,178	66.7	45.2	-	-	112	-	-	Cloudy.
	125	1,078	67.0	44.0	46	14	113	102	19	Cloudy.
	175	1,028	67.2	43.6	-	-	118	-	-	Very cloudy.
	200	1,003	67.2	44.4	-	-	120	-	-	Very cloudy.
	213	990	67.3	47.8	52	17	147	96	17	Top of silt, el. 973 feet.
Iceberg Canyon, mile 287+										
June 4	Surface	1,203	67.9	50.5	50	16	120	123	25	
	5	1,198	66.4	49.2	-	-	-	-	-	
	75	1,128	-	49.8	-	-	-	-	-	
	100	1,103	64.5	55.5	54	17	123	138	28	
	150	1,053	61.8	85.1	78	23	147	232	59	
	165	1,038	60.9	89.7	-	-	-	-	-	
	200	1,003	58.6	102	-	-	-	-	-	
	225	978	57.9	104	112	28	155	295	71	
	294	909	57.9	72.2	50	20	160	177	39	Top of silt, el. 911.5 feet.
Virgin Canyon, mile 305.3										
June 6	Surface	1,204	66.8	54.0	42	17	125	133	26	
	74	1,130	63.1	60.7	-	-	127	-	-	
	89	1,115	61.2	72.7	68	21	137	192	44	
	124	1,080	59.6	94.7	-	-	157	-	-	
	200	1,004	56.5	115	-	-	164	-	-	
	380	824	55.6	116	106	31	164	347	83	Top of silt, el. 822 feet.
Boulder Canyon, mile 334.9										
June 6	Surface	1,204	74.9	96.6	89	26	152	280	62	
	49	1,155	67.2	102	-	-	152	-	-	
	85	1,119	63.4	109	-	-	158	-	-	
	90	1,114	63.7	111	-	-	-	-	-	
	99	1,105	63.5	114	107	30	157	351	78	
	149	1,055	59.6	117	-	-	-	-	-	
	199	1,005	56.7	120	-	-	-	-	-	
	249	955	55.5	120	-	-	-	-	-	
	299	905	55.3	122	-	-	169	-	-	
	349	855	55.3	121	-	-	-	-	-	
	399	805	55.2	121	-	-	171	-	-	
	450	754	60.2	121	-	-	171	-	-	
	455	749	60.1	69.4	68	21	182	173	34	
Mile 264.7										
Sept. 18	Surface	1,212	73.4	156	125	45	210	457	142	Slightly cloudy.
	10	1,202	72.1	156	-	-	208	-	-	Moderately cloudy.
Mile 265										
Sept. 18	Surface	1,212	78.1	98.8	90	28	157	292	69	Clear.
	11.5	1,200.4	72.4	146	117	43	202	432	130	Top of silt, cloudy.
Emery Falls, mile 275.8										
Sept. 18	Surface	1,212	77.3	92.5	86	26	148	273	60	
	40	1,172	77.1	99.4	-	-	156	-	-	
	50	1,162	75.4	115	99	32	176	338	86	
	90	1,122	72.3	131	110	36	190	387	102	
	100	1,112	69.5	126	116	33	176	411	83	
	150	1,062	63.5	117	-	-	167	-	-	
	200	1,012	60.5	118	-	-	168	-	-	
	208	1,004	60.4	118	109	31	169	358	88	
	220	992	63.4	110	124	37	467	197	40	Top of silt, el. 992 feet.

Lake Mead, Ariz.-Nev. - Continued

(Analyses in parts per million)

Iceberg Canyon, mile 287+

Date	Depth (feet)	Elevation (feet)	Temp. (°F.)	Specific conductance (K x 10^5 at 25°C.)	Calcium (Ca)	Magnesium (Mg)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Condition of sample
1941										
Sept. 17	Surface	1,212	79.2	81.4	76	23	136	232	50	
	15	1,197	78.6	81.6	-	-	138	-	-	
	50	1,162	76.8	88.2	-	-	144	-	-	
	80	1,132	72.9	116	105	32	166	361	74	
	100	1,112	68.1	104	94	27	152	316	64	
	150	1,062	62.8	108	-	-	158	-	-	
	200	1,012	59.0	116	-	-	165	-	-	
	250	962	58.0	117	-	-	167	-	-	
	300	912	59.4	117	110	30	167	355	85	
	302	910	59.4	139	142	42	396	339	80	Top of silt, el. 911.3 feet.
Virgin Canyon, mile 305.3										
Sept. 17	Surface	1,212	76.6	72.1	68	20	132	194	43	
	40	1,172	75.8	72.6	-	-	130	-	-	
	50	1,162	75.8	84.4	78	23	140	247	49	
	100	1,112	66.0	70.1	68	20	133	195	40	
	125	1,087	63.9	76.9	-	-	139	-	-	
	150	1,062	62.1	85.7	-	-	145	-	-	
	200	1,012	58.6	112	-	-	164	-	-	
	250	962	56.9	118	-	-	167	-	-	
	300	912	56.6	118	-	-	167	-	-	
	350	862	56.5	119	112	31	168	367	86	
	390	822	58.5	140	147	42	352	384	78	Top of silt, el. 822.6 feet.
Boulder Canyon, mile 334.9										
Sept. 16	Surface	1,212	77.9	74.9	80	19	128	216	40	
	50	1,162	75.0	73.6	-	-	129	-	-	
	75	1,137	69.4	75.9	-	-	133	-	-	
	100	1,112	67.5	83.4	-	-	138	-	-	
	150	1,062	62.8	103	103	27	153	312	70	
	200	1,012	59.3	117	-	-	159	-	-	
	250	962	57.5	119	-	-	162	-	-	
	300	912	56.8	122	-	-	168	-	-	
	350	862	56.1	121	-	-	174	-	-	
	400	812	56.1	120	-	-	168	-	-	
	450	762	56.0	120	112	30	169	355	88	
	458	754	57.5	139	145	38	286	423	77	Top of silt, el. 756.9 feet.

Surface samples

Date	Mile	Elevation (feet)	Temp. (°F.)	Specific conductance (K x 10^5 at 25°C.)	Calcium (Ca)	Magnesium (Mg)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Condition of sample
1940										
Oct. 18	256	-	67	130	126	36	204	428	83	
	263	-	69+	125	118	34	190	412	81	
	264-	-	75	98.6	84	27	143	279	79	
	275.8	-	75+	95.0	82	26	140	273	76	
	257.5	-	74	85.6	74	25	138	235	67	
	305.3	-	74	86.0	-	-	135	-	59	
	355	-	73	98.7	99	27	135	314	66	
	(a)	-	75	108	109	28	132	359	72	
1941										
Mar. 11	257.3	1,168.6	52	128	97	35	211	361	95	0.49 percent silt.
	260	1,168.6	52	128	-	-	211	-	-	0.45 percent silt.
10	264.4	1,168.5	-	128	-	-	210	-	-	0.73 percent silt.
	264.8	1,168.5	55	125	98	33	195	361	92	0.09 percent silt.
	265.0	1,168.5	58	119	108	31	169	359	87	
	275.8	1,168.5	60	118	108	31	158	360	87	
	237.5	1,168.5	58	117	-	-	158	-	-	
	297	1,168.5	58	116	-	-	154	-	-	
	305.3	1,168.5	57	115	111	29	154	358	83	
	310	1,168.5	56	115	-	-	152	-	-	
	325	1,168.5	56	115	-	-	150	-	-	
	334.9	1,168.5	55	114	118	28	149	365	78	
	347	1,168.6	59	114	-	-	151	-	-	
	354.6	1,168.5	56	113	-	-	151	-	-	
June 5	(b)	-	-	121	-	-	158	-	-	
	22	-	-	120	118	31	153	365	83	
July 31	275±	-	87	60.7	-	-	123	-	-	
	276+	-	90	59.5	-	-	127	-	-	
Aug. 31	275±	-	-	80.3	-	-	136	-	-	
Sept. 11	237.5	1,213.7	-	157	113	40	200	416	125	
24	240	1,210.6	67	169	140	39	166	566	119	
18	267.5	1,211.9	78.6	96.0	86	27	153	283	63	
30	275±	-	-	93.7	-	-	151	-	-	
1	276+	-	-	80.9	-	-	139	-	-	
30	276+	-	-	92.4	-	-	149	-	-	
16	(c)	-	77.8	90.2	-	-	133	-	-	

[a] Boat dock. [b] Lower Virgin Narrows. [c] Public boat dock.

Lake Mead, Ariz.-Nev. - Continued

(Analyses in parts per million)

Between intake towers, mile 354.7

Date	Depth (feet)	Elevation (feet)	Temp. (°F.)	Specific conductance (K x 10^5 at 25°C.)	Calcium (Ca)	Magnesium (Mg)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Condition of sample
1940 Oct. 1	Surface	1,174	76.4	106	108	28	13[illegible]	353	74	
	50	1,124	76.4	107	-	-	134	-	72	
	100	1,074	62.5	107	-	-	148	-	70	
	150	1,024	57.3	108	-	-	150	-	70	
	200	974	55.8	109	116	28	154	353	71	
	250	924	55.0	114	117	29	164	365	80	
	300	874	54.5	118	116	32	170	376	90	
	350	824	54.5	122	-	-	191	-	97	
	400	774	54.5	124	-	-	184	-	96	
	-	-	54.6	125	116	33	182	377	98	
	452	722.3	58.5	124	134	34	200	437	101	Somewhat thicker than at el. 723.8 feet.
Nov. 1	Surface	1,174	70.0	110	109	28	137	357	73	
	50	1,124	70.0	110	-	-	136	-	71	
	100	1,074	64.1	109	-	-	147	-	69	
	150	1,024	58.7	110	-	-	148	-	71	
	200	974	56.7	110	-	-	148	-	70	
	250	924	55.7	113	-	-	155	-	73	
	265	909	55.6	117	-	-	159	-	78	
	300	874	55.5	125	119	34	171	379	91	
	325	849	55.5	126	-	-	175	-	93	
	350	824	55.5	127	-	-	174	-	95	
	400	774	55.5	126	-	-	176	-	93	
	443	730.8	56.0	131	122	36	183	403	96	Clear water.
	445	729	58.8	150	143	40	229	470	104	Light reddish-brown silt.
	470	703.8	58.5	156	157	43	297	455	105	Light reddish-brown silt.
Dec. 2	Surface	1,171	61.6	110	108	29	141	358	72	
	50	1,121	61.6	109	-	-	144	-	71	
	100	1,071	61.6	109	-	-	142	-	72	
	150	1,021	59.8	110	-	-	148	-	70	
	200	971	57.1	110	-	-	150	-	72	
	250	921	56.0	113	114	30	155	367	76	
	300	871	55.9	122	116	32	167	379	88	
	350	821	55.9	125	113	34	176	384	94	
	400	771	55.9	125	-	-	174	-	93	
	443	728	57.2	126	-	-	176	-	93	
	446	725	60.0	163	169	47	336	489	106	Light reddish-brown silt.
	460	711	60.6	164	173	49	377	466	104	Light reddish-brown silt.
1941 Jan. 2	Surface	1,168	57.7	111	110	28	148	355	73	
	50	1,118	57.7	110	-	-	145	-	72	
	100	1,068	57.7	110	-	-	141	-	73	
	150	1,018	57.7	110	-	-	143	-	73	
	200	968	57.2	112	-	-	148	-	75	
	250	918	56.4	118	116	29	160	372	82	
	300	868	56.1	122	115	32	168	379	90	
	350	818	56.0	125	-	-	172	-	92	
	400	768	56.1	125	116	33	176	380	93	
	439	729	56.4	125	-	-	176	-	94	
	443	725	57.5	155	153	46	300	472	103	Top of silt layer
	445	723	59.1	169	171	52	364	498	105	
	450	718	61.2	165	171	51	367	488	102	
Jan. 31	Surface	1,167	57.2	114	115	29	158	366	78	
	50	1,117	56.3	114	-	-	147	-	-	
	100	1,067	56.0	114	-	-	149	-	-	
	150	1,017	56.1	113	-	-	149	-	-	
	200	967	56.0	113	-	-	149	-	-	
	215	952	56.1	115	-	-	152	-	-	
	225	942	56.2	114	126	29	150	364	79	
	235	932	56.4	122	119	31	165	379	87	
	250	917	56.4	123	-	-	165	-	-	
	300	867	56.2	126	-	-	174	-	-	
	350	817	56.0	128	116	35	187	377	97	
	400	767	55.8	128	-	-	191	-	-	
	438	729	55.3	131	114	35	197	376	99	
	443	724	56.9	140	130	39	234	412	99	Top of silt, el. 723.5 feet.
	445	722	58.9	172	182	52	402	491	103	
	460	707	59.5	170	184	53	431	457	107	
Mar. 3	Surface	1,168	56.0	118	115	30	158	367	83	
	50	1,118	55.8	118	-	-	156	-	-	
	100	1,068	55.8	118	-	-	158	-	-	
	150	1,018	55.8	119	116	29	156	370	83	
	200	968	56.1	125	116	31	171	380	92	
	250	918	55.5	125	-	-	177	-	-	
	300	868	55.0	126	-	-	181	-	-	
	350	818	54.9	125	-	-	179	-	-	
	400	768	54.2	124	-	-	178	-	-	
	440	728	54.0	124	-	-	180	-	-	
	442	726	54.0	125	112	32	180	360	100	
	445	723	55.4	150	148	44	308	430	100	Top of silt, el. 722.5 feet.
	447	721	57.4	173	182	54	425	479	105	

Lake Mead, Ariz.-Nev. - Continued

(Analyses in parts per million)

Between intake towers, mile 354.7--Continued

Date	Depth (feet)	Elevation (feet)	Temp. (°F.)	Specific conductance (K x 10^6 at 25°C.)	Calcium (Ca)	Magnesium (Mg)	Bicarbonate (HCO_3)	Sulfate (SO_4)	Chloride (Cl)	Condition of sample
1941										
Mar. 31	Surface	1,170	59.0	115	114	30	144	368	77	
	50	1,120	57.6	115	-	-	-	-	-	
	100	1,070	56.8	116	-	-	-	-	-	
	150	1,020	55.9	118	-	-	-	-	-	
	175	995	55.5	124	-	-	169	-	-	
	200	970	54.7	125	-	-	-	-	-	
	250	920	54.1	125	-	-	-	-	-	
	300	870	54.0	126	-	-	-	-	-	
	350	820	54.0	126	-	-	-	-	-	
	400	770	54.0	126	-	-	-	-	-	
	446	724	54.1	126	110	33	181	366	99	
	448	722	55.4	127	-	-	191	-	-	Top of silt, el. 721.2 feet.
	455	715	60.2	178	191	55	492	475	105	
	465	705	59.1	177	193	57	542	431	99	
May 2	Surface	1,176	62.8	117	115	29	151	370	80	
	50	1,126	53.5	116	-	-	-	-	-	
	100	1,076	56.8	117	-	-	-	-	-	
	150	1,026	55.6	120	-	-	-	-	-	
	200	976	54.8	124	-	-	174	-	-	
	250	926	54.5	124	-	-	-	-	-	
	300	876	54.2	124	-	-	-	-	-	
	350	826	54.0	127	-	-	-	-	-	
	400	776	54.1	127	-	-	-	-	-	
	450	726	54.2	126	-	-	183	-	-	
	455	721	55.4	150	144	45	313	421	101	Top of silt, el. 720.5 feet.
	460	716	58.3	175	-	-	512	-	-	
	470	706	59.6	174	186	57	526	430	102	
June 2	Surface	1,202	70.3	117	117	31	144	376	79	
	50	1,152	66.3	117	-	-	-	-	-	
	100	1,102	59.4	116	-	-	-	-	-	
	150	1,052	57.8	117	-	-	-	-	-	
	200	1,002	56.0	118	-	-	-	-	-	
	250	952	55.2	122	-	-	165	-	-	
	300	902	54.9	123	-	-	-	-	-	
	350	852	54.8	124	-	-	-	-	-	
	400	802	54.8	124	-	-	-	-	-	
	450	752	54.8	124	-	-	-	-	-	
	465	737	54.8	124	-	-	175	-	-	Top of silt, el. 736.4 feet.
	480	722	57.5	111	98	30	254	274	70	
	490	712	59.6	171	174	53	474	428	103	
July 1	Surface	1,215.5	73.4	112	107	28	144	351	72	
	50	1,165.5	72.1	112	-	-	-	-	-	
	100	1,115.5	66.2	115	-	-	-	-	-	
	150	1,065.5	61.3	116	-	-	-	-	-	
	200	1,015.5	57.4	118	-	-	-	-	-	
	250	965.5	55.9	119	-	-	155	-	-	
	300	915.5	55.6	121	-	-	-	-	-	
	350	865.5	55.4	121	-	-	-	-	-	
	400	815.5	55.2	122	-	-	-	-	-	
	450	765.5	55.2	122	-	-	164	-	-	
	481.5	734.0	55.2	122	108	31	174	357	91	Top of silt, el. 733.5 feet.
	485	730.5	55.4	119	123	39	336	278	70	
	497	718.5	58.4	132	141	44	376	317	80	
Aug. 1	Surface	1,220	79.7	101	98	25	134	319	65	
	50	1,170	74.4	103	-	-	140	-	-	
	100	1,120	63.9	109	-	-	149	-	-	
	150	1,070	64.2	115	-	-	153	-	-	
	200	1,020	58.1	118	-	-	157	-	-	
	250	970	56.0	119	-	-	162	-	-	
	300	920	55.6	121	-	-	166	-	-	
	350	870	55.4	120	-	-	166	-	-	
	400	820	55.3	121	-	-	170	-	-	
	450	770	55.6	120	-	-	168	-	-	
	488	732	56.1	121	112	30	170	361	88	
	495	725	57.4	128	130	41	428	263	71	Top of silt, el. 731 feet.
	505	715	59.1	151	156	51	496	332	86	
Sept. 2	Surface	1,216	77.8	95.0	95	24	134	296	58	
	50	1,166	73.5	97.4	-	-	142	-	-	
	100	1,116	67.4	108	-	-	150	-	-	
	150	1,066	64.0	113	-	-	153	-	-	
	200	1,016	58.2	118	-	-	159	-	-	
	250	966	56.5	119	-	-	162	-	-	
	300	916	56.2	120	-	-	168	-	-	
	350	866	56.1	120	-	-	167	-	-	
	400	816	55.9	120	-	-	167	-	-	
	450	766	55.8	121	-	-	169	-	-	
	480	736	55.9	121	-	-	172	-	-	
	485	731	55.9	122	112	31	172	364	89	
	490	726	56.8	126	128	41	408	272	69	Top of silt, el. 729 feet.
	495	721	58.5	126	-	-	420	-	-	

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