Water Levels and Artesian Pressure in Observation Wells in the United States in 1946

Part 2. Southeastern States

Prepared under the direction of C. G. PAULSEN, *Chief Hydraulic Engineer*

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PREFACE

This report was prepared by the Geological Survey in cooperation with the States of Alabama, Florida, Georgia, Kentucky, Maryland, Mississippi, North Carolina, Tennessee, Virginia, and West Virginia and other agencies, by personnel of the Water Resources Division under the direction of:

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Part 2. SOUTHEASTERN STATES

INTRODUCTION

By A. N. Sayre and others

Significance of records of water level and artesian pressure

The rock formations of the earth are great natural reservoirs in which a part of the water derived from rain and snow is stored to supply wells and springs and to maintain the flow of streams during periods of fair weather. Water levels in wells register the stages of these natural reservoirs; they show the extent to which water supplies are depleted by drought or by heavy pumping, whether for public waterworks, irrigation, or industrial uses, and the extent to which they are replenished in seasons of abundant rainfall or melting snow. The changes in pressure recorded on flowing wells indicate depletion or replenishment of the artesian reservoirs.

Annual publication of records by Geological Survey

The regular publication of records of water level and artesian pressure in the United States was begun by the Geological Survey in 1935 and has continued yearly since. The records for the entire country were published in a single volume each year through 1939. Beginning with 1940 the records have been published in six volumes, covering the northeastern, southeastern, north-central, south-central, northwestern, and southwestern sections of the country. Hawaii is included in the southwestern section. (See fig. 1.) The following table gives the numbers of these reports. This series of water-supply papers is in a sense an inventory, year by year, of the ground-water supplies of such parts of the country as have been covered.

Water-supply papers on water levels and artesian pressure in observation wells in the United States

Year	North-eastern States	South-eastern States	North-central States	South-central States	North-western States	South-western States and Hawaii
1935	777	777	777	777	777	777
1936	817	817	817	817	817	817
1937	840	840	840	840	840	840
1938	845	845	845	845	845	845
1939	886	886	886	886	886	886
1940	906	907	908	909	910	911
1941	936	937	938	939	940	941
1942	944	945	946	947	948	949
1943	986	987	988	989	990	991
1944	1016	1017	1018	1019	1020	1021
1945	1023	1024	1025	1026	1027	1028
1946	1071	1072	1073	1074	1075	1076

Scope of present volume

The present volume covers the southeastern States and gives records of water level and artesian pressure in about 850 observation wells of the Geological Survey and cooperating agencies in Alabama, Florida, Georgia, Kentucky, Maryland, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, and West Virginia. Of these wells, 123 are equipped with automatic water-stage recorders. For some wells not previously reported complete records of water level are given in this volume, including those of the years before 1946. For wells whose previous records have been published this volume gives only the current records. If a complete description of a well has been published in a previous report, only the well number or the well number and a brief identifying description are given in this report. The numbers in parentheses immediately following a well number are those of the water-supply papers in which earlier records of that well are given and the pages on which they appear. An asterisk indicates that a description of the well is given in the paper whose number is so marked. This report includes about 17,500 individual determinations of water level and artesian pressure.

Land-surface datum

Before 1943, in Geological Survey reports, the water levels and artesian pressures for some wells were given in feet above or below the measuring points and for other wells in feet above or below sea level or above or below various assumed datum planes. It had been considered inadvisable to adopt a standard procedure in expressing water levels and artesian heads

until after a period of trial with datum planes of different kinds. In 1943, however, it was decided that uniform practice should be adopted. Accordingly, precise datum planes were established approximating the land surface at each well. The water levels and artesian heads for all wells listed in this report are given in reference to land-surface datum planes.

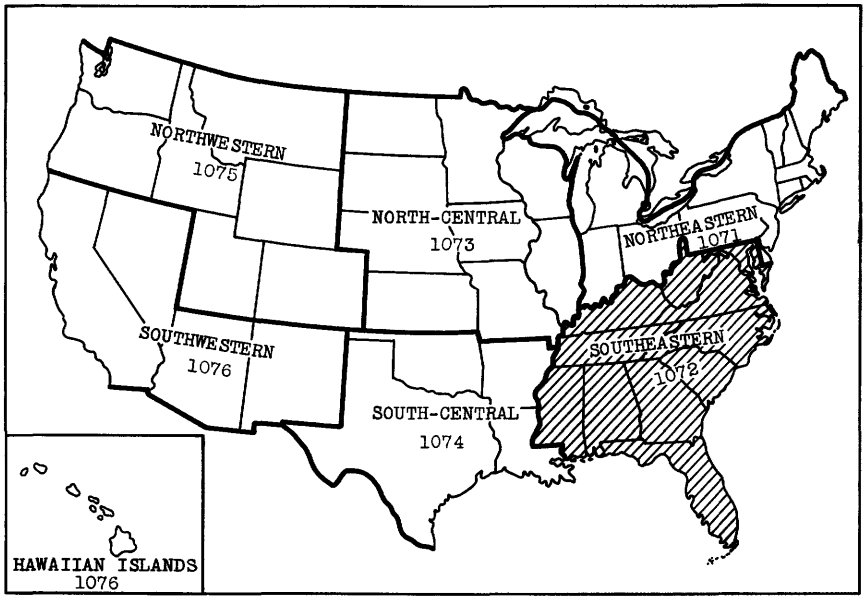

Figure 1.--Outline map of the United States, showing sections of the country covered by the six water-supply papers on water levels and artesian pressure in observation wells in 1946. The shaded section represents the part of the country covered by this volume.

If the water levels or artesian heads are referred to land-surface datum for the first time, a conversion factor is given in the descriptive matter preceding them in order to facilitate comparison of the older and newer records. Wherever the conversion factor is given in earlier reports it is not repeated in this report. New data as to the positions of the measuring point and of the bench marks, in feet above or below land-surface datum planes, will be published in succeeding annual reports.

Network of key observation wells

During 1942 the Geological Survey established a network of key observation wells in order to make available current information on general ground-water conditions over the country. These wells were selected because

the fluctuations of water level in them are believed to be typical and they represent the general fluctuations that occur in the parts of the country in which the wells are situated. At the end of 1946 the network included about 160 wells in 45 States. About 40 of the wells were established expressly for the network in 1942 and about 20 were established in 1943; the other 100 were selected from wells measured regularly in connection with cooperative ground-water investigations. The coverage of the country is still far from adequate, and it is expected that some wells not now included will be added to the network from time to time.

Changes in ground-water level in 1946 in the southeastern part of the United States

The average precipitation in the majority of the southeastern States was above normal in 1946, but in Maryland, North Carolina, South Carolina, Virginia, and West Virginia it was below normal. The fluctuations of both water level and artesian pressure in wells depend, however, on many factors besides the amount of precipitation. In certain of the observation wells there are fluctuations caused by differences in the rate of pumping or artesian flow from other wells in the area, but most of the observation wells are not noticeably affected by pumping or artesian flow. A summary of the changes in ground-water level is given in the chapter for each State.

Acknowledgments

Acknowledgments for effective services in the preparation of this water-supply paper are due Mrs. Nauvoo Ragland and Mrs. Frances Dowell, Misses Dorothy M. Ireland and Beulah B. Brunson, and Rodney Hart. Miss Ireland had general charge of the assembling of the several reports and did the editing; Mr. Hart prepared the illustrations; and Mrs. Ragland, Mrs. Dowell, and Miss Brunson did the offset typing.

ALABAMA

By P. E. Lamoreaux

PROGRAM OF WORK

Measurements of water levels in observation wells in Alabama, which were begun in June 1940, were continued through 1946 as a part of the ground-water investigations carried on in cooperation with the Alabama Geological Survey and the Alabama Department of Public Health. These measurements were begun in connection with an investigation of the availability, occurrence, quality, and quantity of ground water in the area of outcrop of the Cretaceous formations of Alabama. Upon the completion of the studies[1/] in the Cretaceous area in 1944, the program was expanded and ground-water studies were begun in the outcrop area of the Tertiary formations in the southern quarter of the State. This investigation of the Tertiary area of Alabama was continued through 1946. Progress was made on the comprehensive study of the ground-water resources of the entire area while a detailed investigation was completed on the salt-water encroachment of the shallow aquifer in the vicinity of Mobile, the report of which is now being published.

The cooperative program with the Alabama State Health Department, begun in October 1945 to compile correlative data on mottled enamel and tooth decay with respect to the fluoride content of the water used for the public supplies of the Tertiary area, was continued in 1946, the field work for which was completed and the report begun.

Since June 1940 wells in Chilton, Dallas, Greene, Jackson, Montgomery Pickens and Tuscaloosa Counties have been under periodic observation (Water-Supply Papers 907, 937, 945, 987, 1017). From time to time during the

1/Carlston, C.W., Fluoride in the ground water of the Cretaceous area of Alabama: Geol. Survey of Alabama Bull. 52, 1942. Carlston, C. W., Ground-water resources of the Cretaceous area of Alabama: Geol. Survey of Alabama Special Report 18, 1944.

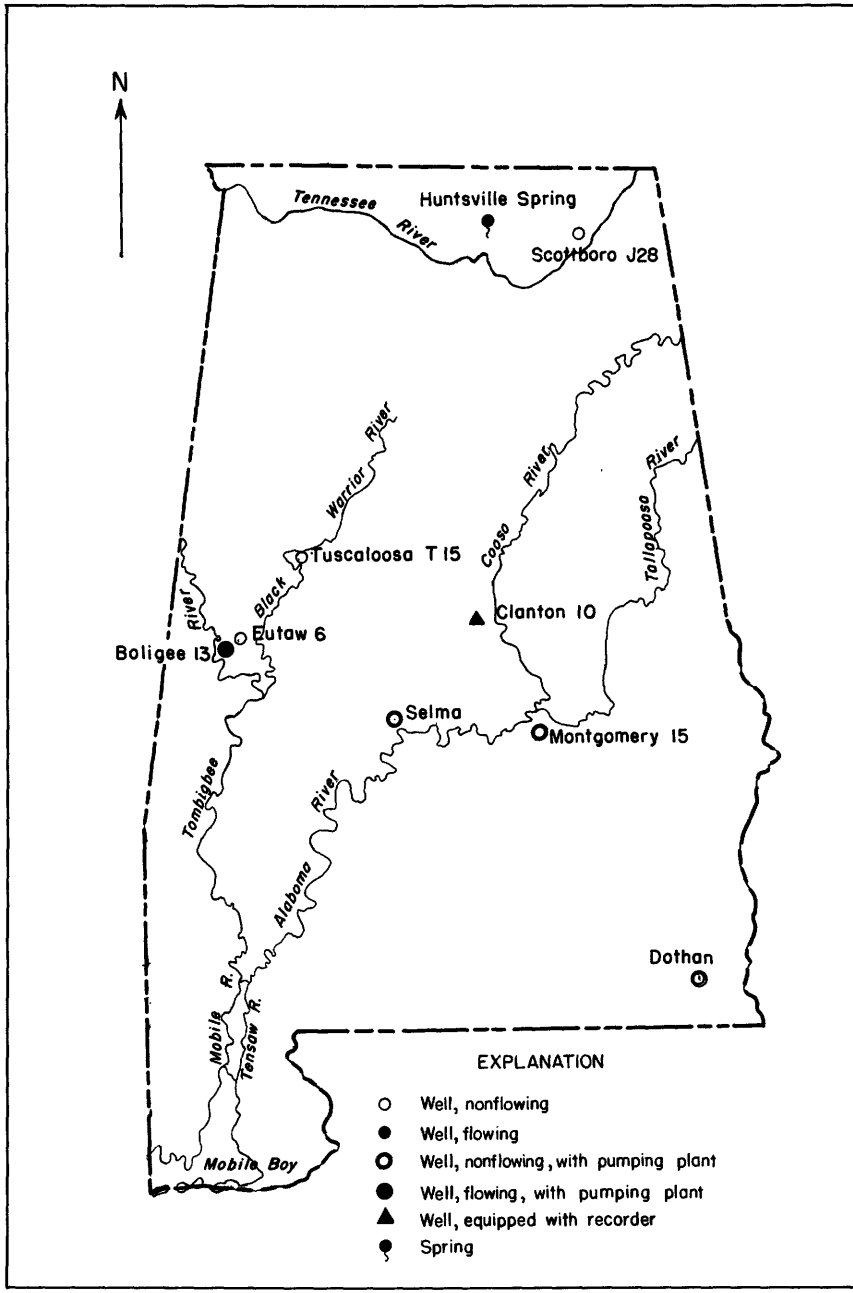

Figure 2.--Map of Alabama showing location of observation wells, 1946

period 1940-46 observations on some of these wells were discontinued because it was decided that they were not giving adequate information. Of these observation wells monthly measurements have been made at Eutaw well 6 and a continuous water-stage recorder has been maintained at Clanton well 10 since 1941. A third well at Scottsboro has a nearly complete record of observation since 1936. The earlier observations on this well were made by the Tennessee Valley Authority. A Stevens automatic water-stage recorder was installed in August 1945 on an abandoned well in the city of Selma well field. A continuous record has been maintained at the well since its installation. The Selma observation well is near the center of the city well field, and is equipped with screens set opposite the producing Eutaw sands developed by the other city wells. A record, by wells, of pumpage in the field and a record of precipitation are also being maintained.

On March 23 a Stevens weekly continuous recorder was installed on a well at the Dothan Water Works, Houston County. Records on this well were maintained until July 18, at which time it was necessary to abandon observation because of interference caused by the completion and development of a new town well within 20 yards of the observation well.

On August 30 a Stevens water-stage recorder was reinstalled on Montgomery City well 15a and a continuous record maintained through the end of the year. This well is near the center of the old city of Montgomery well field and gives water-level data pertinent to the use of water from this field. Pumpage records on the surrounding wells in the field are also being maintained. The field is being pumped at the rate of approximately 6 million gallons of water a day.

Weekly measurements were begun on May 12 in a well 10½ miles southwest of Tuscaloosa, in Tuscaloosa County, on U. S. Highway 11. This well reflects shallow water-table conditions. Monthly measurements were resumed on a deep artesian flowing well at Boligee, Greene County. This well is in an area of artesian flow from the Eutaw sand underlying the Selma chalk group and is representative throughout a large area about Boligee.

On March 23, 1945, a continuous water-stage recorder was installed at Huntsville Spring. With the aid of a discharge table compiled by the division of surface water, synchronized with a water-level gage, discharge of the spring is measured. Because the measurement is taken from a point

below the intake for the city supply, the total discharge of the spring is computed by the addition of pumpage to the discharge measurement. Continuous pumpage, discharge of water past the gage, and precipitation records are being maintained on this project.

Individual measurements on observation wells during 1946 reached a total of 243.

FLUCTUATIONS OF WATER LEVEL

Huntsville Spring, Madison County, well J28, at Scottsboro, Jackson County, and well T-15, in Tuscaloosa County, are in the northern division designated by the U. S. Weather Bureau. The accumulative rainfall in this area for January, February, March, and April was 28.45 inches, which was 7.84 inches above normal for this period as a result of abnormally heavy rains during January, 5.27 inches above normal, and February, 3.96 inches above normal. Rainfall in March, May, and June was slightly above normal, while rainfall during April was 1.62 inches below normal. During the period July through December 1946 accumulative rainfall was 2.96 inches above normal. Total rainfall for the year was 13.32 inches above normal.

Big Spring, in the city of Huntsville, is representative of many limestone springs used for farm, community, and industrial supplies in northern Alabama. Big Spring issues from a passage at the base of a bluff of massive Warsaw limestone. It is confined in a basin and spillway which empties into Big Creek, draining southward to the Tennessee River. Records of Huntsville Spring from November 1928 to March 1930 are published in Special Report 16 of the Geological Survey of Alabama.[2/] During this early period of measurement maximum discharge during the spring and winter months approached 30 million gallons a day. Minimum discharge during the dry summer months was approximately 7 million gallons a day. A second series of measurements were begun on March 23, 1945, and continued through 1946. Measurements made and data collected include pumpage records, spring discharge, and rainfall. The average annual precipitation at Huntsville is 52 inches. During the months of January, February, March, April, May, June, July, and December 1946, when rainfall averaged between 4 and 5 inches a month, the spring discharged an average of from 15 to 20 million gallons a day. During the

2/ Johnston, W. D., Jr., Ground water in the Paleozoic rocks of northern Alabama: Geol. Survey of Alabama Special Report 16, p. 271, 1933.

months of August, September, and October when the average monthly rainfall is generally less than 2 inches, the spring discharges an average of 5 to 8 million gallons a day. There have been exceptionally low discharge conditions, however, when the capacity of the spring was barely sufficient to supply the city's demand of approximately 4 million gallons a day. From a series of records it appears that when sufficient precipitation falls it reaches the spring within 24 hours, indicating that the underground channels or feeders are in near proximity to the spring. An interesting fact is that, even though there is a close relationship between spring discharge and rainfall, the spring stays clear and does not muddy up. Due to the unusually large amount of rainfall throughout 1946, the Huntsville Spring discharged at a rate much more than sufficient to meet the city's demand. (See fig. 3.)

Well J28 recorded its highest water level of 1.80 feet below land-surface datum on February 10. During January through July the water level in this well fluctuated only slightly. On July 21 the water level began to decline slowly and reached its lowest level for the year, 6.71 feet, on August 25, 5.03 feet above the lowest level of 1945. On August 25 the water level began to rise irregularly until it reached a level of 3.12 feet below land-surface datum on December 30. The average water level in Scottsboro well J28 for 1946 was considerably higher than that of 1945 (see fig. 4), due to above-normal precipitation throughout 1946.

Measurements on well T-15, in Tuscaloosa County, were begun on May 12. The water level declined gently until December 22 when it began to rise. The highest water level of 28.28 feet below land-surface datum was recorded on May 12, while the lowest for the period of observation, 30.47 feet below land-surface datum, was recorded or December 22.

The Boligee, Clanton, Eutaw, Montgomery, and Selma observation wells are in the part of Alabama designated by the U. S. Weather Bureau as the middle division. The greatest recharge in this area takes place during the months of January, February, March, and April. The accumulative precipitation recorded for this division during this spring recharge period, was 23.12 inches, which was 2.78 inches above normal. During the drier early summer months of May, June, and July accumulative rainfall was 7.27 inches

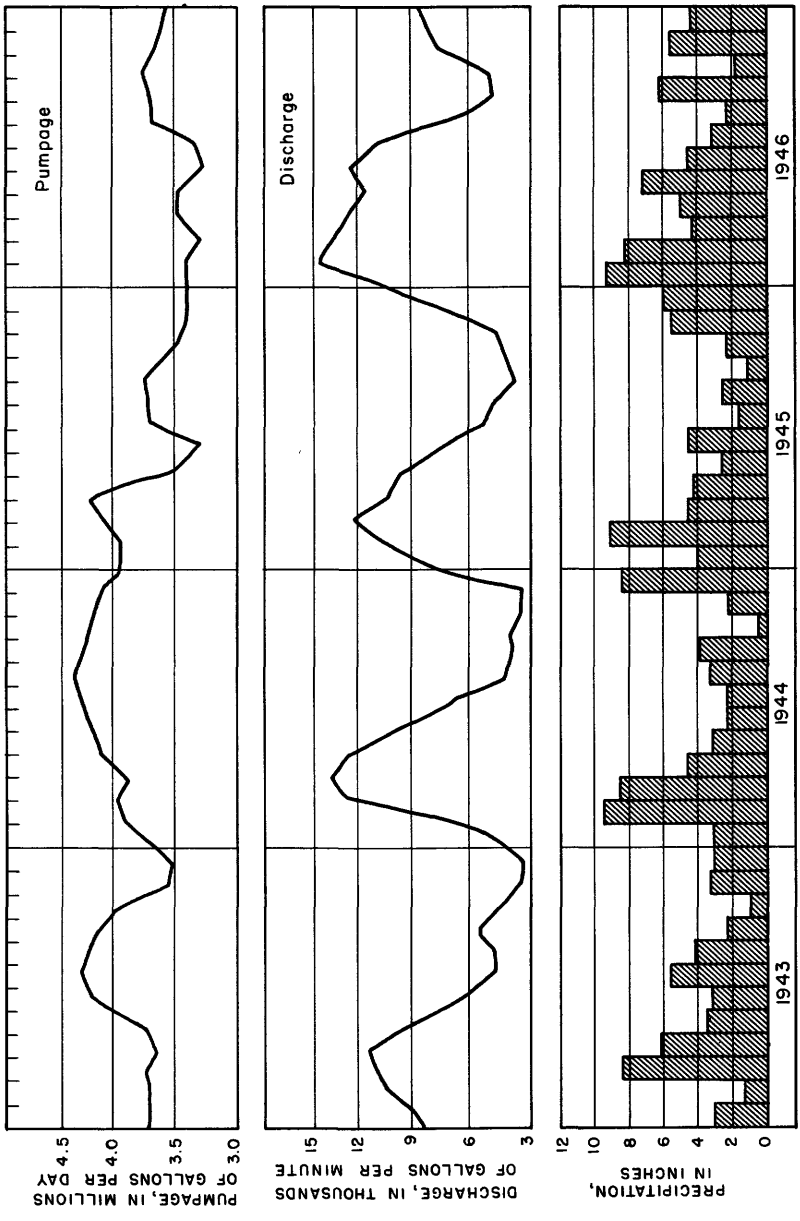

Figure 3.--Graphs showing pumpage, in gallons a day, and discharge over lower weir, in gallons a minute, at Huntsville Spring, Huntsville, Ala., as correlated with local precipitation, 1943-46.

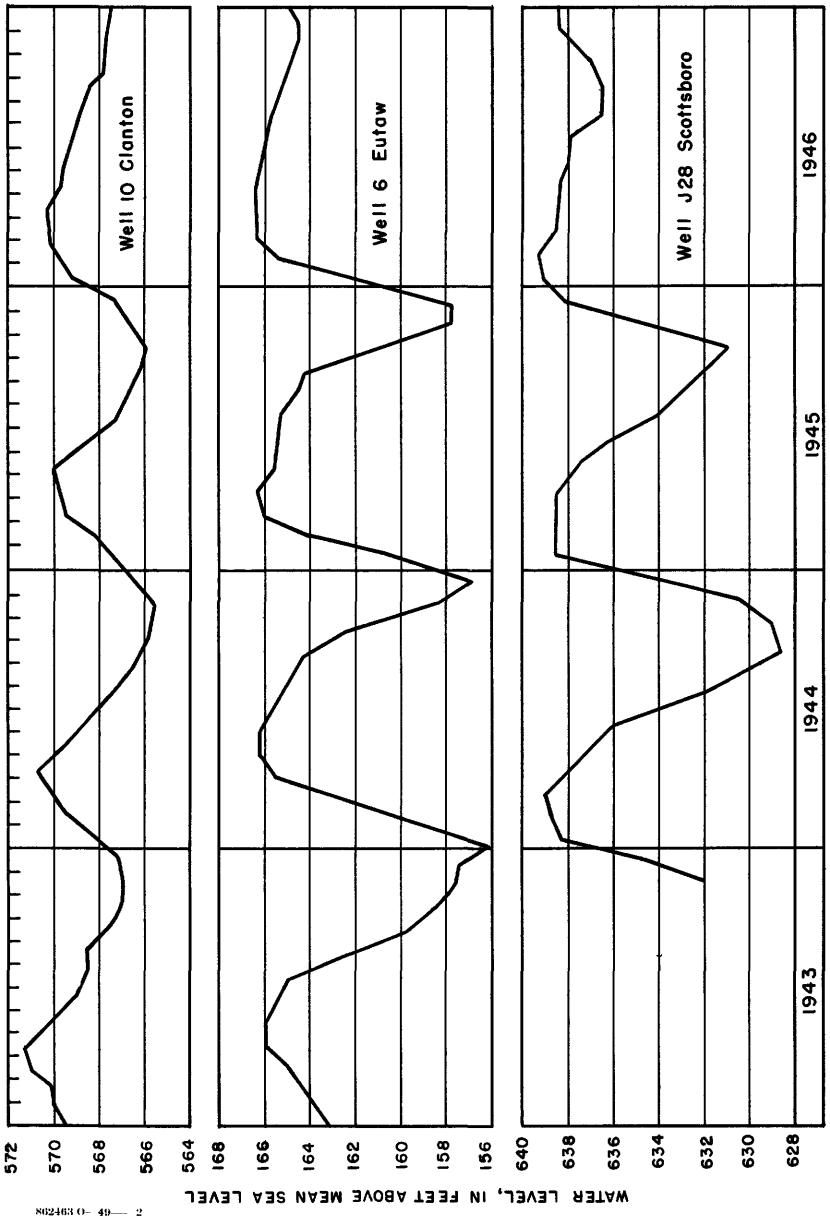

Figure 4.--Graphs showing water-level fluctuations in key observation wells in Alabama, 1946.

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above normal. During July and August accumulative rainfall is generally responsible for recharge of water levels during the hot summer months. For this entire period 11.78 inches of precipitation was recorded--1.79 inches above normal. The rainfall in September and November was 3.74 inches above normal, while rainfall for October and December was 4.50 inches below normal. Following is a discussion of the effect of variation in precipitation on water-level fluctuations in observation wells.

The Greene County well, at Boligee, had an incomplete record during 1945. It reached its highest recorded water level of 6.87 feet above land-surface datum on March 30, and its lowest of 6.50 feet above land-surface datum on October 31. The water level declined gently from April through October, then slowly rose to 6.60 feet above land-surface datum on December 31 at the time of the final 1946 measurement.

The water level in Chilton County well 10, at Clanton, reached its highest stage of 16.76 feet below land-surface datum on March 30, which was 0.02 foot lower than its previous highest stage of April 30, 1945. A more gentle decline of the water level took place in the well throughout the dry summer and fall months of 1946 in contrast to a more rapid decline during the same period in 1945. Intermittent water table rises during the generally dry summer and fall were caused by periodic rains. The well reached its lowest stage of 20.26 feet below land-surface datum on November 9, which was 2.14 feet higher than the low water level of October 6 of the previous year. Recharge due to early winter rainfall brought the water level up to 19.67 feet below land-surface datum by December 28. (See fig. 4.)

The highest water-level measurement for Greene County well 6 was 15.95 feet below land-surface datum recorded for March 30, which was 0.02 foot lower than the highest stage recorded on April 2, 1945. The low for this well was reached on December 1 when its water level stood at 18.19 feet below land-surface datum--9.46 feet higher than the record low of 27.65 feet at the end of December 1943, and 7.65 feet higher than the recorded low of 25.84 feet in November 1945. (See fig. 4.)

The yearly record for the Montgomery well is not complete. The lowest level was recorded on October 25 when it reached 122.19 feet below land-surface datum. Two parts of a yearly cycle appear on the hydrograph of this well. During September and October the water level was on the decline.

Beginning the first of November the water level slowly rose in the well until it reached 114.79 feet on December 27, its highest level of 1946.

The highest recorded water level for the Dallas County well, at the Selma Water Works, was 13.49 feet below land-surface datum on February 17, while the lowest water level of 29.93 feet below land-surface datum was recorded on September 6. The water level declined gently from April until October, then gradually rose to 16.73 feet below land-surface datum on December 27, which was 0.49 foot lower than the water level recorded at the end of 1945.

The Houston County well, at the Dothan Water Works, is in the southern division designated by the U. S. Weather Bureau. The accumulative rainfall for January, February, March, and April, recorded at the Dothan station, was 22.22 inches, or 3.12 inches above normal. A total rainfall of 18.68 inches--4.95 inches above normal--was recorded during May, June, and July. The measurement on March 23, when the well was first observed, was 45.60 feet below land-surface datum . The water level fluctuated slightly during the early part of April, and on May 7 it was 42.90 feet below land-surface datum, the lowest level recorded during the period of measurement. The water level rose slowly in the well to 47.30 feet below land-surface datum on July 18, the highest level recorded. Shortly after July 18 the well was abandoned because of interference caused by the development of a new city well 20 yards away.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Chilton County

10 (*937, p. 7; 945, p. 9; 987, p. 8; 1017, p. 8; 1024 , p. 9). City of Clanton. In brick recorder house behind settling tanks in waterworks lot, on north side of Clanton. Equipped with automatic water-stage recorder.

Water level, in feet below land-surface datum, 1946
(From recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	18.82	Apr. 6	17.14	July 6	18.08	Oct. 5	19.13
12	18.21	13	17.71	13	18.31	19	19.93
19	17.90	20	18.07	20	18.67	26	20.09
26	18.07	26	18.13	27	18.77	Nov. 2	20.03
Feb. 2	18.62	27	18.31	Aug. 3	19.27	9	20.26
9	17.90	May 5	18.27	10	18.65	16	20.14
16	18.07	11	18.71	17	18.95	23	19.76
21	17.98	18	18.09	24	19.50	30	19.73
23	17.70	25	17.45	31	19.41	Dec. 7	20.02
Mar. 2	18.02	June 1	17.70	Sept. 7	19.62	14	20.03
9	17.56	8	17.89	14	19.88	21	19.94
16	17.04	15	18.57	21	18.66	28	19.67
23	17.25	22	18.98	28	18.54		
30	16.76	29	18.91				

Dallas County

City of Selma (*1024, p. 9). At Selma Waterworks plant. Abandoned city well, diameter 6 inches, depth 420 feet. Developed in Eutaw sands. Measurements of water level to nearest hundredth of a foot made by W. C. Robinson, superintendent of waterworks.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 27	17.23	Apr. 26	17.54	July 19	27.68	Oct. 11	22.56
Feb. 8	18.33	May 3	19.33	26	21.95	18	23.28
15	15.93	10	18.76	Aug. 2	21.93	25	15.05
17	13.49	17	18.86	9	22.28	Nov. 1	19.93
22	18.33	24	17.63	16	23.75	8	19.33
Mar. 1	16.93	31	19.13	23	23.45	15	18.88
8	16.33	June 7	18.77	30	22.83	22	17.69
15	16.59	14	26.63	Sept. 6	29.93	Dec. 1	18.65
22	16.53	21	20.03	13	24.91	8	17.58
29	16.53	28	21.93	20	21.71	13	17.97
Apr. 5	15.97	July 5	19.34	27	21.33	20	16.43
12	18.93	12	21.68	Oct. 4	21.56	27	16.73
19	19.28						

Greene County

13 (*907, p. 6; 937, p. 8). At Boligee, in old mill house, 200 feet northwest of Alabama Great Southern Railroad station. Developed in Eutaw sand. Measuring point, top of iron standpipe, 8.70 feet above land-surface datum, and 125.83 feet above mean sea level. Two bench marks were established in 1946, as follows: (1) "T.B.M. 1" top of foundation bolt in concrete foundation block 20 feet east of well, elevation 122.53 feet above mean sea level; (2) "T.B.M. 2" top rim of 4-inch tee connection on well, elevation 118.71 feet above mean sea level. Well shut off 20 minutes prior to each measurement.

Water level, in feet above land-surface datum, 1946

Feb.	6.77	May	6.85	Aug.	6.61	Nov.	6.56
Mar.	6.87	June	6.63	Sept	6.65	Dec.	6.60
Apr.	6.83	July	6.58	Oct.	6.50		

6 (*937, p. 8; 945, p. 9; 987, p. 9; 1017, p. 8; 1024, p. 10). R. Neilon and E. Ward. NW¼ sec. 14, T. 22 N., R 2 E., in front of Cotton Patch Restaurant, on U. S. Highway 11, 3.8 miles north of Eutaw, on hillside, in upper Eutaw sands.

Water level, in feet above land-surface datum, 1946

Jan.	17.94	Apr.	16.08	July	16.65	Oct.	17.73
Feb.	16.18	May	16.05	Aug.	17.14	Nov.	18.19
Mar.	15.95	June	16.71	Sept.	17.39	Dec.	18.07

Houston County

Dothan City well. Owner's well 7. In old pump house on corner of Washington and Waters Streets. Abandoned drilled public-supply well diameter 24 inches, depth 295 feet. Measuring point, top of 24-inch casing elevation 321.70 feet above mean sea level. Land-surface datum is 321.10 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Mar. 23	45.60	Apr. 22	45.20	May 21	43.60	June 27	46.30
26	44.10	29	44.50	June 5	44.90	July 3	46.00
Apr. 8	44.60	May 7	42.90	12	45.70	10	46.40
15	44.10	13	44.10	19	45.90	18	47.30

Jackson County

J28 (*987, pp. 9-10; 1017, p. 9; 1024, p. 10). Tennessee Valley Authority well TVA 28. NW¼ sec. 29, T. 3 S., R. 5 E, on State Highway 35, about 0.4 mile south of its intersection with U. S. Highway 72, and 50 feet southeast of its intersection with old Scottsboro highway, 30 feet south of State Highway 35.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 6	2.71	Apr. 7	3.62	July 7	3.55	Oct. 6	4.44
13	2.51	14	3.35	14	3.69	14	4.12
21	3.33	21	3.31	21	4.03	21	6.11
27	3.29	28	3.62	28	3.59	27	4.12
Feb. 3	3.04	May 5	3.74	Aug. 4	3.83	Nov. 3	4.49
10	1.80	13	3.33	12	4.70	10	4.57
17	3.09	19	3.02	18	5.37	17	3.64
25	3.14	27	3.39	25	6.71	24	3.31
Mar. 3	3.32	June 2	2.98	Sept. 1	6.10	Dec. 1	3.44
10	3.01	9	4.02	9	5.10	8	3.73
17	2.97	17	3.57	15	5.30	15	3.51
25	3.73	23	3.42	23	5.40	22	2.93
31	3.70	30	4.27	30	5.34	30	3.12

Montgomery County

15 (*907, p. 6; 937, p. 8). City of Montgomery well 15a. Corner of Court and Chambers Streets, Montgomery. Measuring point, top of well head, 1.31 feet above land-surface datum and 165.81 feet above mean sea level. Well in area affected by pumping in old city well field.

Water level, in feet below land-surface datum, 1946
(From recorder charts)

Aug. 30	120.59	Oct. 4	121.59	Nov. 8	120.79	Dec. 6	119.99
Sept. 6	120.59	11	121.79	15	120.29	13	119.99
13	118.99	18	121.79	22	119.79	19	119.89
20	120.79	25	122.19	29	120.09	27	114.99
27	121.19	Nov. 1	121.39				

Tuscaloosa County

T15. J. R. Thoenen. At side of house, 10.5 miles southwest of Tuscaloosa on U. S. Highway 11. Domestic well, diameter 36 inches, depth 35.5 feet. Measuring point, edge of concrete rim on east side of well, 1.32 feet above land-surface datum, and 291.32 feet above mean sea level. Water in well under water-table conditions, developed in sands of Tuscaloosa formation. Two bench marks were established in 1946, as follows: (1) "T.B.M. 1" northeast corner pump house foundation, elevation 217.38 feet above mean sea level; (2) "T.B.M. 2" southeast corner pump house foundation, elevation 217.67 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

May 12	28.28	July 14	28.84	Sept.15	29.44	Nov. 9	29.99
20	28.48	28	29.03	22	29.38	17	30.08
26	28.48	Aug. 8	29.02	29	29.43	24	30.10
June 2	28.56	11	29.10	Oct. 6	29.53	Dec. 1	30.20
9	28.62	18	29.12	13	29.67	8	30.24
16	28.67	25	29.12	20	29.80	22	30.47
30	28.71	Sept. 1	29.22	27	29.78	30	30.28
July 6	28.92	8	29.32	Nov. 2	29.88	31	30.25

FLORIDA

By J. W. Stewart and C. F. Essig, Jr.

PROGRAM OF WORK

Observations of water levels and artesian pressure in Florida were continued in 1946 in cooperation with the Florida Geological Survey and with several counties and cities of the State. The program is a part of an investigation of the ground-water resources of Florida which was begun in some parts of the State as early as 1930. Since 1939 an intensive investigation in Dade County has been underway in cooperation with the Dade County and the cities of Miami, Miami Beach, and Coral Gables. Other counties and cities cooperating in such investigations in 1946 include Pinellas and Nassau Counties and the cities of Fort Myers, Fort Pierce, Lake Worth, Delray Beach, and Pensacola.

At the end of 1946 the program included a total of 359 wells, 41 of which were equipped with automatic water-stage recorders. During the year the program was expanded into 14 additional counties and included 65 wells not previously reported, but 114 of the wells previously reported were dropped from the program, principally in Palm Beach and Lee Counties where special investigations were completed. The table that follows gives the distribution by counties of observation wells and water-stage recorders and indicates the number of water-level measurements reported for each county.

Distribution, by counties, of observation wells in Florida, 1946

County	Number of wells at end of year	Number of tape and pressure-gage measurements	Number of wells with water-stage recorders
Bay	3	11	0
Brevard	5	5	0
Broward	2	31	1
Clay	6	29	0
Dade	251	2580	17
Duval	17	105	0
Escambia	6	317	4
Gadsden	1	3	0
Gulf	1	3	0
Hendry	2	8	0
Highlands	1	0	0
Hillsborough	1	11	1

Distribution, by counties, of observation wells in Florida, 1946--Continued

County	Number of wells at end of year	Number of tape and pressure-gage measurements	Number of wells with water-stage recorders
Jackson	2	4	0
Lee	6	206	6
Leon	3	772	1
Manatee	1	7	1
Marion	1	48	0
Nassau	12	75	1
Okaloosa	2	2	0
Orange	1	11	1
Palm Beach	2	79	1
Pinellas	2	19	2
Polk	1	1	1
St. Johns	7	82	1
St. Lucie	14	26	0
Sarasota	2	105	2
Taylor	1	13	1
Wakulla	2	4	0
Walton	2	2	0
Washington	2	6	0
Totals	359	4,565	41

OCCURRENCE OF GROUND WATER

In Florida north of Lake Okeechobee the source of water for most cities, industries, farms, citrus groves, and rural homes is obtained from a highly productive and extensive aquifer consisting of the Ocala limestone and other limestones and dolomites of Eocene, Oligocene, and Miocene ages. At most places this aquifer is overlain by a thick section of younger materials that include relatively impervious beds which confine the water under artesian pressure. The water is under sufficient pressure to rise above the land surface over roughly half of the State, including a band about 20 miles wide along the east coast, all the area south of Lake Okeechobee, the Kissimmee River Valley, and other areas.

The shallow aquifers supply most of the water used in southern Florida and at some places along the east coast south of Duval County, where the artesian water is too highly mineralized for general use. They are also the principal source of supply in Escambia County. These aquifers are composed of limestone, sand, shell marl, and coquina, and range in age from Miocene to Pleistocene. Among them is the Tamiami formation in southeastern Florida, one of the most highly permeable aquifers in the world. Generally, however, the shallow aquifers are less permeable and less productive than the deeper limestone aquifer.

FLUCTUATIONS OF WATER LEVEL AND ARTESIAN PRESSURE

Over the northern part of the State water levels and pressures were generally somewhat higher in 1946 than they were in 1945, owing chiefly to more rainfall. The larger increases in rainfall occurred in west Florida, where the precipitation was above normal at all the rain gages of the U. S. Weather Bureau. At Crestview, in Okaloosa County, the Weather Bureau recorded 94.33 inches of rain in 1946, more than anywhere else in the State.

Artesian pressures in Duval and Nassau Counties, in northeastern Florida, were higher in 1946 than in the previous year in all observation wells. The largest increases in pressure occurred near Fernandina, Nassau County, where the heavy withdrawal from the upper section of the limestone aquifer by Rayonier, Inc., was decreased by several million gallons a day after the deeper section of limestone was developed in 1945 (see Water Supply Paper 1024, p. 13). The artesian pressures in northeastern Florida respond slowly and only slightly to increases or decreases in rainfall, owing to the fact that the areas in which recharge occurs are remote.

The water level in Escambia County well 45, at Cantonment, continued to decline progressively as the result of heavy pumpage by the Florida Pulp and Paper Company. However, it rose slightly during the last half of 1946, probably because of abnormally heavy rainfall. The precipitation at the Pensacola station in 1946 was 79.99 inches, 22.14 inches above normal and 20.94 inches above that in 1945. In the southern part of Escambia County water levels were slightly higher than they were in 1945, but in well 60, on Bayou Chico, where salt water encroachment has occurred, the water level remained below sea level as it has since the record began in 1940.

In Sarasota County well 9 the water level reached a record low of 4.40 feet below the datum on April 12, but rose to 1.18 feet above the datum, the highest since 1943, on August 24. The withdrawal of water for irrigating truck farms has caused a progressive decline of water levels in Sarasota County. The total decline in well 9 over the period of record, beginning in 1930, has been about 4 feet.

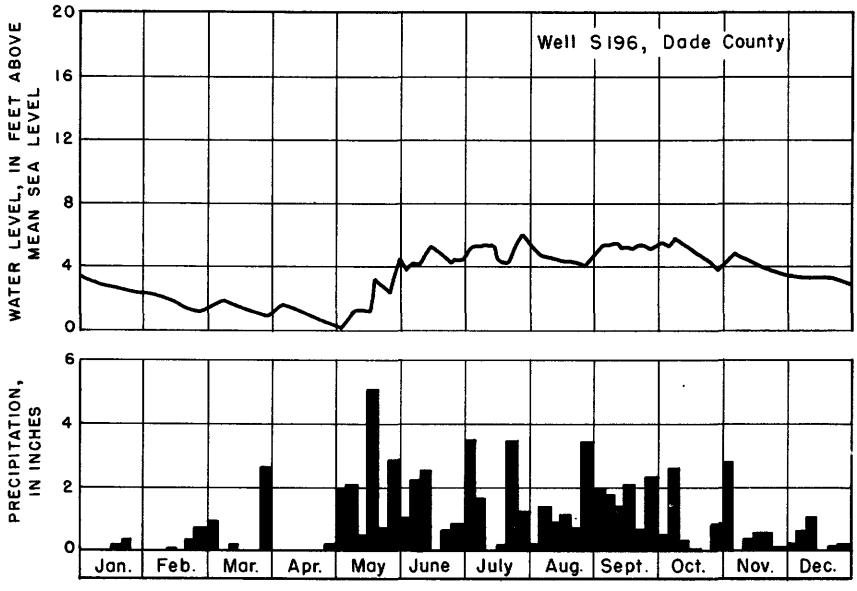

Figure 5.--Graph showing fluctuations of water level during 1946 in Dade County well S196 and precipitation at the University of Florida Experiment Station, Homestead, Fla.

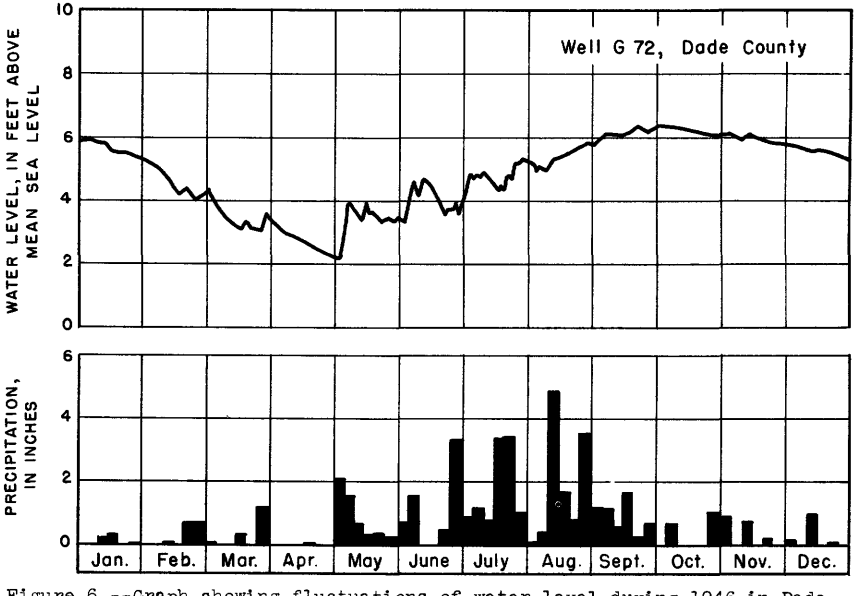

Figure 6.--Graph showing fluctuations of water level during 1946 in Dade County well G 72 and precipitation at the Federal Geological Survey Station, Pensuco, Fla.

Water levels in southern Florida in 1946 were, on the average, higher than they have been since 1942. The rise in water levels was caused by an increase in rainfall over that in the previous year. At some stations the increase was as much as 14.06 inches (Hialeah) and 12.22 inches (Peters). The total rainfall at the Miami station in 1946 was 39.04 inches, 4.50 inches more than in 1945, but 18.73 inches below the normal. Other selected stations in Dade County at which increases were observed are as follows: Coconut Grove (7.49 inches); Homestead (9.99 inches); Kendal (4.76 inches); and Pennsuco (2.69 inches). No decrease in rainfall occurred at any station in Dade County. Figures 5 and 6 illustrate the close correlation between precipitation and ground-water levels.

Although the rainfall was higher than in 1945 in Dade County, it was lower in adjacent counties. For example, at Hypoluxo, near Lake Worth, in Palm Beach County, the rainfall was 53.34 inches, 3.07 inches less than in 1945; at Fort Pierce, in St. Lucie County, it was 43.59 inches, 8.29 inches less than in 1945; and in Fort Myers, in Lee County, it was 42.45 inches, 10.13 inches less than in 1945.

Comparative water levels and precipitation for selected wells in Dade County

Well	1942		1943		1944		1945		1946	
No.	1/	2/	1/	2/	1/	2/	1/	2/	1/	2/
G10	4.24	65.39	3.60	58.39	3.52	39.29	2.68	40.98	3.91	55.04
S18	2.10	48.86	1.54	62.45	1.38	40.19	1.13	42.25	1.95	54.93
S182	4.77	.....	3.69	50.89	2.92	39.56	2.71	54.77	4.48	66.99
F179	1.90	56.80	1.70	44.82	1.58	28.66	1.58	34.54	1.93	39.04
F210	1.50	48.86	1.37	62.45	1.18	40.19	1.07	42.25	1.40	54.93

1/ Average annual water level, in feet above mean sea level.
2/ Total precipitation in inches.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Bay County

7. City of Panama City. SW¼NE¼ sec. 1, T. 3 S., R. 15 W., under a water tank at Clay and 11th Streets, in St. Andrew. Unused drilled test well, diameter 3 inches, depth 356 feet. Measuring point, top of 3-inch casing, 26.80 feet above mean sea level and 0.5 foot above land-surface datum. Water levels, in feet below land-surface datum, 1946: Aug. 21, 44.50; Sept. 25, 44.02; Oct. 24, 43.67; Nov. 19, 44.80.

10. L. R. Pierson. NE¼NE¼ sec. 10, T. 3 S., R. 14 W., at Leisure Lodge, 1.25 miles east of Lynn Haven. Used drilled domestic well, diameter 8 inches, depth 300 feet. Measuring point, top of 8-inch casing, 0.47 foot above land-surface datum. Water levels, in feet below land-surface datum, 1946: Aug. 21, 5.88; Sept. 25, 6.18; Oct. 24, 7.02; Nov. 21, 7.50.

11. Youngstown Naval Stores. In Youngstown, in SE¼SE¼ sec. 28, T. 1 S., R. 12 W., at old turpentine still, 25 yards west of U. S. Highway 231. Used drilled domestic well, diameter 6 inches, depth 412 feet. Measuring point, top of 6-inch casing, at land-surface datum and 86.2 feet above mean sea level. Water levels, in feet below land-surface datum, 1946: Sept. 26, 14.67; Oct. 24, 14.79; Nov. 21, 14.80.

Brevard County

19. Well 19 in Water-Supply Paper 773-C. Mr. R. H. Wall. 9 miles west of Melbourne, in NW¼NW¼ sec. 5, T. 28 S., R. 36 E., about 40 feet north of State Highway 500, and about 30 feet west of St. Johns River bridge. Used drilled domestic well, diameter 2 inches, depth 413 feet, cased to 80 feet. Measuring point, top of 2-inch tee, 20.04 feet above mean sea level and 1.0 foot above land-surface datum. Water level, in feet above land-surface datum, 1946: Nov. 26, 28.1.

20. Well 20 in Water-Supply Paper 773-C. Mr. Webber. 9.5 miles west of Malabar, in NE¼NW¼ sec. 4, T. 29 S., R. 36 E., about 10 feet south of State Highway 514. Used drilled irrigation well, diameter 4 inches, depth 447 feet, cased to 125 feet. Measuring point, top of 4-inch tee, 24 feet above mean sea level and 1.0 foot above land-surface datum. Water level, in feet above land-surface datum, 1946: Nov. 26, 27.8.

79. C. W. Carlile. About 1.6 miles northeast of Scottsmoor, about 12 feet east of shell road, in edge of orange grove. Used drilled irrigation well, diameter 4 inches, depth 160 feet, cased to 85 feet. Measuring point, top of 4-inch ell, 9.68 feet above mean sea level and 0.7 foot above land-surface datum. Water level, in feet above land-surface datum, 1946: Aug. 29, 6.7.

148. W. P. Warren. NE¼NE¼ sec. 31, T. 24 S., R. 36 E., about 60 feet south of State Highway 520, about 100 feet west of a residence, in edge of orange grove. Used drilled irrigation well, diameter 4 inches, depth 205.6 feet, cased to 105 feet. Measuring point, top of 4-inch tee, 20.79 feet above mean sea level and 1.30 feet above land-surface datum. Water level, in feet above land-surface datum, 1946: Oct. 10, 12.7.

159. H. R. Jacobsen. 3 miles north of Orsino, in NE¼SW¼ sec. 18, T. 22 S., R. 37 E., north side small pit, in orange grove, about 500 feet southeast of a residence. Used drilled irrigation well, diameter 6 inches, depth 210 feet, cased to 90 feet. Measuring point, top of 6-inch valve, 5.47 feet above mean sea level, and 1.7 feet above land-surface datum. Water level, in feet above land-surface datum, 1946: Dec. 14, 17.2.

Broward County

S329 (*907, p. 34; 937, p. 27; 945, p. 29; *987, p. 17; 1017, p. 11; 1024, p. 16). Fort Lauderdale. SW¼NE¼ sec. 12, T. 50 S., R. 41 E. Water-stage recorder installed on June 12, 1946.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week	High level	Low level	Week	High level	Low level
June 18-24	5.00	5.68	Sept. 17-23	2.34	3.52
June 25-July 1	3.60	5.16	24-30	3.00	3.94
July 2-8	3.64	4.03	Oct. 1-7	3.22	4.08
9-15	3.84	4.30	8-14	3.19	3.99
16-22	4.03	4.42	15-21	3.99	4.51
23-29	2.77	4.45	22-28	4.22	4.82
July 30-Aug. 5	2.84	3.80	Nov. 12-18	4.64	4.87
Aug. 6-12	3.80	4.31	19-25	4.78	5.00
13-19	3.84	4.51	Nov. 26-Dec. 2	4.99	5.44
20-26	4.08	4.55	Dec. 3-9	5.20	5.51
Aug. 27-Sept. 2	3.90	4.62	10-16	4.58	5.60
Sept. 3-9	3.55	3.90	17-23	4.70	5.03
10-16	3.07	4.10	24-30	5.03	5.33

S330 (*1017, p. 12; 1024, p. 17). Florida Power & Light Co. SW¼NW¼ sec. 30, T. 50 S., R. 42 E. Water levels, in feet below land-surface datum, 1946: Jan. 2, 2.55; Nov. 25, 1.43; Dec. 10, 1.68.

Clay County

1 (*907, p. 13; 937, p. 12; 945, p. 12; 987, p. 17; 1017, p. 12; 1024, p. 17). Girl Scouts of America. At Camp Chowenaw, about 1,000 feet south of SE. corner sec. 20, T. 5 S., R. 26 E. Record begins in 1934.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Aug. 15	38.0	Oct. 2	40.0	Dec. 19	41.2
Sept. 4	42.4	Nov. 14	41.6		

2 (*907, p. 13; 937, p. 12; 945, p. 12; 987, p. 17; 1017, p. 12; 1024, p. 17). Mrs. M. A. Chaulker. At Middleburg, in NW¼NW¼ sec. 13, T. 5 S., R. 24 E., at residence of owner. Record begins in 1934.

Water level, in feet above land-surface datum, 1946

Aug. 15	44.1	Oct. 2	45.4	Dec. 19	44.3
Sept. 4	40.0	Nov. 14	44.9		

4 (*907, p. 14; 937, p. 12; 945, p. 12; 987, p. 17; 1017, p. 12; 1024, p. 17). T. J. Jennings. Near north line of SW¼SW¼ sec. 32, T. 4 S., R. 25 E., 3.2 miles northeast of Middleburg. Record begins in 1940.

Water level, in feet above land-surface datum, 1946

Aug. 15	37.9	Oct. 2	39.0	Dec. 19	37.8
Sept. 4	38.8	Nov. 14	39.0		

5 (*907, p. 14; 937, p. 12; 945, p. 12; 987, p. 17; 1017, p. 12; 1024, p. 17). John Huntley. NE¼NE¼ sec. 32, T. 4 S., R. 25 E., about 500 feet northwest of new highway, in rear of residence of owner, 4.2 miles northeast of Middleburg. Record begins in 1940.

Water level, in feet above land-surface datum, 1946

Aug. 15	32.8	Oct. 2	33.7	Dec. 19	33.5
Sept. 4	34.0	Nov. 14	34.3		

8 (*907, p. 14; 937, p. 13; 945, p. 13; 987, p. 18; 1017, p. 12; 1024, p. 17). St. Elmo Hotel. In Green Cove Springs. Record begins in 1934.

Water level, in feet above land-surface datum, 1946

Aug. 15	19.2	Oct. 2	18.5	Dec. 19	19.3
Sept. 4	19.8	Nov. 14	19.3		

22. U. S. Navy. At auxiliary air base, about 2.5 miles southeast of Green Cove Springs, on south side of a pumphouse. Used drilled public-supply well, diameter 6 inches, depth 650 feet, cased to 282 feet. Measuring point, top of 6-inch tee, 3.5 feet above land-surface datum. Water levels, in feet above land-surface datum, 1946: Sept. 4, 23.5; Oct. 2, 20.9; Nov. 14, 21.7; Dec. 19, 22.8.

Dade County

D151 (*886, p. 66; *907, p. 28; 937, p. 23; 945, p. 29; *987, p. 18; 1017, p. 13; 1024, p. 17). Peoples Water & Gas Co. Center of sec. 16, T. 52 S., R. 42 E. No measurements made in 1946.

F1 (*1017, p. 13; 1024, p. 17). City of Miami Springs. NW¼NE¼ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	6.00	Apr. 29	5.85	Aug. 3	5.05	Nov. 30	4.52
Feb. 27	5.85	May 29	5.63	31	5.12	Dec. 30	5.53
Mar. 27	5.48	June 27	5.51	Oct. 30	5.00		

F2 (*1017, p. 14; 1024, p. 17). City of Miami Springs. NW¼NE¼ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	6.41	Apr. 29	6.18	Aug. 3	5.46	Oct. 30	5.39
Feb. 27	6.26	May 29	5.99	31	5.48	Nov. 30	5.40
Mar. 27	5.86	June 27	5.89	Sept.30	5.17	Dec. 30	5.93

F3 (*1017, p. 15; 1024, p. 17). City of Miami Springs. SW¼NE¼ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	4.73	Apr. 29	4.47	Aug. 3	3.77	Oct. 30	3.69
Feb. 27	4.65	May 29	4.30	31	3.70	Nov. 30	3.72
Mar. 27	4.19	June 27	4.10	Sept.30	3.43	Dec. 30	4.28

F4 (*1017, p. 16; 1024, p. 18). City of Miami Springs. SW¼NE¼ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	6.68	Apr. 29	6.38	Aug. 3	5.65	Oct. 30	5.59
Feb. 27	6.58	May 29	6.20	31	5.57	Nov. 30	5.61
Mar. 27	6.10	June 27	6.09	Sept.30	5.33	Dec. 30	6.15

F5 (*1017, p. 17; 1024, p. 18). City of Miami Springs. NE¼SE¼ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	5.36	Apr. 29	5.06	Aug. 3	4.47	Oct. 30	4.35
Feb. 27	5.17	May 29	4.92	31	4.32	Nov. 30	4.39
Mar. 27	4.77	June 27	4.88	Sept.30	4.19	Dec. 30	4.91

F6 (*1017, p. 18; 1024, p. 18). City of Miami Springs. SW¼SE¼ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	6.25	Apr. 29	5.92	Aug. 3	5.40	Oct. 30	5.28
Feb. 27	6.12	May 29	5.79	31	5.28	Nov. 29	5.24
Mar. 27	5.77	June 27	5.75	Sept.30	5.01	Dec. 30	5.78

F7 (*1017, p. 19; 1024, p. 18). City of Miami Springs. NE¼SE¼ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	5.60	Apr. 29	5.38	Aug. 3	4.89	Oct. 30	4.69
Feb. 27	5.46	May 29	5.33	31	4.75	Nov. 29	4.74
Mar. 27	5.12	June 27	5.23	Sept.30	4.49	Dec. 30	5.20

F8 (*1017, p. 20; 1024, p. 18). City of Miami Springs. SE¼SE¼ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	5.57	Apr. 29	5.35	Aug. 3	4.91	Oct. 30	4.69
Feb. 27	5.46	May 29	5.22	31	4.76	Nov. 29	4.70
Mar. 27	5.11	June 27	5.23	Sept.30	4.42	Dec. 30	5.20

F9 (*886, p. 65; *907, p. 29; *937, p. 23; *945, p. 30; *987, p. 18; 1017, p. 21; 1024, p. 18). City of Miami Springs. SW¼SE¼ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	4.40	Apr. 29	4.26	Aug. 3	3.64	Oct. 30	3.47
Feb. 27	4.28	May 29	4.03	31	3.50	Nov. 29	3.47
Mar. 27	3.94	June 27	3.96	Sept.30	3.23	Dec. 30	3.97

F10 (*1017, p. 21; 1024, p.18). City of Miami Springs. SW¼SE¼ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	5.73	Apr. 29	5.48	Aug. 3	4.80	Oct. 30	4.70
Feb. 27	5.63	May 29	5.33	31	4.67	Nov. 29	4.69
Mar. 27	5.29	June 27	5.17	Sept.30	4.43	Dec. 30	5.25

F11 (*1017, p. 22; 1024, p. 19). City of Miami Springs. NW¼SE¼ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	6.51	Apr. 29	6.24	Aug. 3	5.63	Oct. 30	5.50
Feb. 27	6.37	May 29	6.08	31	5.52	Nov. 30	5.53
Mar. 27	6.04	June 27	6.04	Sept.30	5.18	Dec. 30	6.02

F12 (*886, p. 66; *907, p. 29; 937, p. 23; 945, p. 30; *987, p. 18; 1017, p. 23; 1024, p. 19). City of Miami Springs. NE¼SE¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	9.15	Apr. 29	8.55	Aug. 3	7.31	Oct. 30	7.36
Feb. 27	8.98	May 29	8.15	31	7.03	Nov. 30	7.50
Mar. 27	8.12	June 27	7.80	Oct. 1	6.91	Dec. 30	8.30

F13 (*1017, p. 23; 1024, p. 19). City of Miami Springs. NE¼SE¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	8.54	Apr. 29	7.95	Aug. 3	6.61	Oct. 30	6.60
Feb. 28	8.40	May 29	7.57	31	6.31	Nov. 29	6.66
Mar. 27	7.42	June 27	7.10	Oct. 1	6.29	Dec. 30	7.53

F14 (*1017, p. 24; 1024, p. 19). City of Miami Springs. NW¼SE¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	7.65	Apr. 30	6.88	Aug. 3	5.43	Oct. 30	5.50
Feb. 28	7.70	May 29	6.77	31	5.39	Nov. 29	5.45
Mar. 27	6.18	June 27	6.18	Oct. 1	5.41	Dec. 30	6.52

F15 (*1017, p. 25; 1024, p. 19). City of Miami Springs. SE¼SW¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	6.96	Apr. 30	6.45	Aug. 3	4.96	Oct. 30	5.21
Feb. 28	7.06	May 29	6.27	31	4.83	Nov. 29	4.84
Mar. 28	5.61	June 27	5.59	Sept.30	5.13	Dec. 30	5.81

F18 (*1017, p. 26; 1024, p. 19). City of Opa Locka. NW¼SW¼ sec. 22, T. 52 S., R. 41 E. No measurements made in 1946.

F22 (*1017, p. 27; 1024, p. 19). City of Opa Locka. NE¼NE¼ sec. 21, T. 52 S., R. 41 E. No measurements made in 1946.

F25 (*886, p. 65; *907, p. 26; 937, p. 23; 945, p. 30; *987, p. 18; *1017, p. 28; 1024, p. 19). City of Opa Locka. NE¼SW¼ sec. 21, T. 52 S., R. 41 E. No measurements made in 1946.

F53 (*1017, p. 28; 1024, p. 19). City of Miami. NW¼SW¼ sec. 12, T. 53 S., R. 41 E. No measurements made in 1946.

F62 (*886, p. 67; *907, p. 30; 937, p. 24; 945, p. 30; *987, p. 19; 1017, p. 29; 1024, p. 19). City of Miami. SE¼SE¼ sec. 14, T. 53 S., R. 41 E. No measurements made in 1946.

F64 (*1017, p. 29; 1024, p. 20). City of Miami. SE¼SE¼ sec. 23, T. 53 S., R. 41 E. Water levels, in feet below land-surface datum, 1946: Jan. 3, 9.39; Mar. 6, 10.26; May 2, 10.19.

F69 (*1017, p. 30; 1024, p. 20). City of Miami. SE¼NW¼ sec. 26, T. 53 S., R. 41 E. Water level, in feet below land-surface datum, 1946: May 3, 9.49.

F109 (*886, p. 67; *907, p. 30; 937, p. 24; 945, p. 31; *987, p. 19; 1017, p. 31; 1024, p. 20). City of Miami. NE¼SE¼ sec. 10, T. 53 S., R. 41 E. No measurements made in 1946.

F112 (*1017, p. 31; 1024, p. 20). City of Miami. SW¼NE¼ sec. 22, T. 53 S., R. 41 E. No measurements made in 1946.

F117 (*1017, p. 31; 1024, p. 20). City of Miami. NE¼NW¼ sec. 34, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 3	5.88	May 2	5.59	Oct. 28	5.14
Mar. 6	5.95	Sept. 4	4.96		

F124 (*1017, p. 32; 1024, p. 20). City of Miami. NW¼NW¼ sec. 3, T. 54 S., R. 41 E. Water level, in feet below land-surface datum, 1946: May 3, 9.56.

F137 (*1017, p. 33; 1024, p. 20). City of Miami. Sec. 11, T. 54 S., R. 41 E. Water levels, in feet below land-surface datum, 1946: Jan. 5, 9.53; May 3, 9.45; Sept. 4, 8.83.

F143. City of Miami. In Miami, in NW¼NE¼ sec. 15, T. 54 S., R. 41 E., on northeast corner of Southwest 24th Street and 21st Avenue. Drilled fire well, diameter 8 inches, depth 99 feet. Measuring point, lip of hydrant, 1.6 feet above land-surface datum and 12.09 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	10.17	Apr. 1	10.10	June 28	10.15	Oct. 8	8.97
Feb. 4	10.45	May 1	10.08	July 31	9.70	28	9.47
Mar. 4	10.39	31	9.57	Aug. 30	9.62	Dec. 3	9.34

F146. City of Miami. In Miami, in SW¼SE¼ sec. 10, T. 54 S., R. 41 E., on southeast corner of Southwest 20th Street and 22d Avenue. Drilled fire well, diameter 6 inches, depth 108 feet. Measuring point, lip of hydrant, 2.0 feet above land-surface datum and 9.73 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 5	7.69	Apr. 1	7.70	June 28	7.38	Oct. 8	6.43
Feb. 4	7.96	May 1	7.80	July 31	6.85	28	6.95
Mar. 4	8.00	31	7.22	Aug. 30	7.09	Dec. 3	6.79

F147. City of Miami. In Miami, in NW¼NE¼ sec. 15, T. 54 S., R. 41 E., on southeast corner of Southwest 23d Street and 22d Avenue. Drilled fire well, diameter 6 inches, depth 66 feet. Measuring point, lip of hydrant, 1.5 feet above land-surface datum and 11.80 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 1	8.68	Apr. 4	8.58	June 28	8.38	Oct. 8	7.28
Feb. 4	8.88	May 1	8.67	July 31	7.83	28	7.53
Mar. 4	8.88	31	7.98	Aug. 30	8.01	Dec. 3	7.70

F148. City of Miami. In Miami, in SW¼NE¼ sec. 15, T. 54 S., R. 41 E., on southeast corner of Southwest 24th Terrace and 22d Avenue. Drilled fire well, diameter 6 inches, depth 68 feet. Measuring point, lip of hydrant, 2.0 feet above land-surface datum and 13.11 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 7	9.51	Apr. 1	9.56	June 28	7.28	Oct. 8	8.12
Feb. 4	9.72	May 1	9.63	July 31	8.73	28	8.69
Mar. 4	9.78	31	9.03	Aug. 30	8.87	Dec. 3	8.53

F154. City of Miami. In Miami, in NE¼NW¼ sec. 15, T. 54 S., R. 41 E., on southeast corner of Southwest 22d Terrace and 24th Avenue. Drilled fire well, diameter 6 inches, depth 82 feet. Measuring point, lip of hydrant, 2.0 feet above land-surface datum and 14.23 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	10.63	Apr. 1	10.71	June 28	10.36	Oct. 8	9.35
Feb. 4	10.00	May 1	10.86	July 31	9.85	28	9.91
Mar. 4	10.96	31	10.18	Aug. 30	10.01	Dec. 3	9.77

F155 (*1017, pp. 34-35; 1024, p. 20). City of Miami. SE¼NW¼ sec. 15, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 7	5.36	Apr. 1	5.40	June 28	5.10	Oct. 8	4.03
Feb. 4	5.63	May 1	5.45	July 31	4.42	28	4.49
Mar. 4	5.64	31	4.73	Aug. 30	4.75	Dec. 3	4.42

F156. City of Miami. In Miami, in SE¼NW¼ sec. 15, T. 54 S., R. 41 E., on southeast corner of Southwest 26th Street and 24th Avenue. Drilled fire well, diameter 6 inches, depth 90 feet. Measuring point, lip of hydrant, 1.4 feet above land-surface datum and 13.75 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 7	11.92	Apr. 1	12.02	June 28	11.83	Oct. 8	10.67
Feb. 4	12.15	May 1	12.06	July 31	10.49	28	11.18
Mar. 4	11.20	31	11.37	Aug. 30	11.30	Dec. 3	11.07

F158. City of Miami. In Miami, in SW¼SW¼ sec. 15, T. 54 S., R. 41 E., on southeast corner of Southwest Andros and 27th Avenue. Drilled fire well, diameter 6 inches, depth 83 feet. Measuring point, lip of hydrant, 1.6 feet above land-surface datum and 13.72 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 7	11.89	Apr. 1	11.74	June 28	11.61	Oct. 8	10.67
Feb. 4	11.89	May 1	11.55	July 31	11.08	28	11.09
Mar. 4	11.95	31	9.06	Aug. 30	11.18	Dec. 4	10.85

F159. City of Miami. In Miami, in NW¼NW¼ sec. 22, T. 54 S., R. 41 E., on southeast corner of Southwest 27th Avenue and Bird Road. Drilled fire well, diameter 6 inches, depth 86 feet. Measuring point, lip of hydrant, 1.3 feet above land-surface datum and 17.40 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 7	14.70	Apr. 2	15.58	June 28	15.75	Oct. 29	15.28
Feb. 5	15.92	May 1	15.47	Aug. 30	15.15	Dec. 4	15.03
Mar. 5	15.80	31	15.16	Oct. 8	14.76		

F160. City of Miami. In Miami, in SW¼NW¼ sec. 22, T. 54 S., R. 41 E., on southeast corner of Southwest 27th and Tigertail Avenues. Drilled fire well, diameter 6 inches, depth 64 feet. Measuring point, lip of hydrant, 1.7 feet above land-surface datum and 16.19 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 7	13.96	Apr. 2	13.62	June 28	14.12	Oct. 8	13.03
Feb. 5	14.11	May 1	13.77	July 31	13.41	29	13.44
Mar. 5	13.85	31	13.29	Aug. 30	13.39	Dec. 4	13.12

F163. City of Miami. In Miami, in NW¼SW¼ sec. 10, T. 54 S., R. 41 E., on southeast corner of Southwest 18th Street and 27th Avenue. Drilled fire well, diameter 6 inches, depth 62 feet. Measuring point, lip of hydrant, 1.7 feet above land-surface datum and 14.81 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	11.40	May 1	11.63	July 31	10.32	Oct. 28	10.62
Feb. 4	11.79	31	10.97	Aug. 30	10.84	Dec. 3	10.49
Mar. 3	11.78	June 28	10.97	Oct. 8	10.14	31	10.93
Apr. 1	11.49						

F164. City of Miami. In Miami, in SW¼SW¼ sec. 10, T. 54 S., R. 41 E., on northeast corner of Southwest 21st Street and 27th Avenue. Drilled fire well, diameter 6 inches, depth 78 feet. Measuring point, lip of hydrant, 1.8 feet above land-surface datum and 14.70 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 5	11.26	Apr. 1	11.35	June 28	10.88	Oct. 8	9.95
Feb. 4	11.57	May 1	11.46	July 31	7.24	28	10.50
Mar. 4	11.60	31	11.77	Aug. 30	10.67	Dec. 3	10.36

F165. City of Miami. In Miami, in NW¼NW¼ sec. 15, T. 54 S., R. 41 E., on southeast corner of Southwest 22d Terrace and 27th Avenue. Drilled fire well, diameter 6 inches, depth 61 feet. Measuring point, lip of hydrant, 2.0 feet above land-surface datum and 9.70 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 5	6.02	Apr. 1	6.12	June 28	5.68	Oct. 8	4.73
Feb. 4	6.36	May 1	6.24	July 31	5.05	28	5.25
Mar. 4	6.38	31	5.50	Aug. 30	5.46	Dec. 3	5.11

F166. City of Miami. In Miami, in SW¼NW¼ sec. 15, T. 54 S., R. 41 E., on southeast corner of Southwest 24th Terrace and 24th Avenue. Drilled fire well, diameter 6 inches, depth 61 feet. Measuring point, lip of hydrant, 1.9 feet above land-surface datum and 11.78 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 7	8.25	Apr. 1	8.29	June 28	7.90	Oct. 8	6.90
Feb. 4	8.54	May 1	8.37	July 31	7.28	28	7.46
Mar. 4	8.56	31	8.64	Aug. 30	7.66	Dec. 3	7.33

F168. City of Miami. In Miami, in NE¼SE¼ sec. 16, T. 54 S., R. 41 E., on southwest corner of Southwest 28th Lane and 27th Avenue. Drilled fire well, diameter 8 inches, depth 107 feet. Measuring point, lip of hydrant, 2.0 feet above land-surface datum and 13.57 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 7	10.42	Apr. 1	11.42	June 28	11.09	Oct. 29	10.51
Feb. 5	11.56	May 1	11.26	Aug. 30	10.60	Dec. 4	10.34
Mar. 5	11.51	31	10.67	Oct. 8	10.06		

F172. City of Miami. In Miami, in SE¼NE¼ sec. 9, T. 54 S., R. 41 E., on northwest corner of Southwest 16th Street and 30th Avenue. Drilled fire well, diameter 6 inches, depth 87 feet. Measuring point, lip of hydrant, 2.0 feet above land-surface datum and 14.19 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 5	10.48	Apr. 30	10.72	July 31	8.93	Oct. 28	9.73
Feb. 4	10.81	May 31	10.13	Aug. 30	9.94	Dec. 3	9.59
Mar. 4	10.90	June 28	9.97	Oct. 8	9.24	31	10.02
Apr. 1	10.72						

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F173. City of Miami. In Miami, in NW¼SE¼ sec. 16, T. 54 S., R. 41 E., on southwest corner of Southwest 27th Street and 30th Avenue. Drilled fire well, diameter 6 inches, depth 60 feet. Measuring point, lip of hydrant, 2.4 feet above land-surface datum and 11.45 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	7.60	Apr. 1	7.69	June 28	7.27	Oct. 29	6.83
Feb. 4	7.68	May 1	8.01	Aug. 30	6.79	Dec. 4	6.91
Mar. 4	7.76	31	6.87	Oct. 8	6.24		

F174 (*945, p. 31; *987, p. 19; 1017, p. 35; 1024, p. 20). City of Miami. SW¼NE¼ sec. 9, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 5	10.95	Apr. 1	11.06	June 28	10.50	Oct. 8	9.74
Feb. 4	11.31	30	11.28	July 31	9.75	28	10.17
Mar. 4	11.43	May 31	13.61	Aug. 30	10.47	Dec. 2	10.14

F176. City of Miami. In Miami, in NW¼NE¼ sec. 16, T. 54 S., R. 41 E., on northwest corner of Southwest 23d Terrace and 31st Avenue. Drilled fire well, diameter 6 inches, depth 86 feet. Measuring point, lip of hydrant, 2.3 feet above land-surface datum and 12.29 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 7	8.53	Apr. 1	8.51	June 3	8.06	Oct. 8	7.23
Feb. 4	8.84	May 1	8.71	July 1	8.25	29	7.80
Mar. 3	8.87	4	8.61	Aug. 30	7.78	Dec. 4	7.61

F177. City of Miami. In Miami, in NW¼SE¼ sec. 16, T. 54 S., R. 41 E., on northeast corner of Southwest 27th Terrace and 31st Place. Drilled fire well, diameter 6 inches, depth 55 feet. Measuring point, lip of hydrant, 2.0 feet above land-surface datum and 7.85 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 7	4.41	Apr. 1	4.45	June 28	4.06	Oct. 29	3.63
Feb. 5	4.61	May 1	4.40	Aug. 30	3.59	Dec. 4	3.43
Mar. 5	4.64	31	3.72	Oct. 8	3.04		

F178. City of Miami. In Miami, in NW¼SE¼ sec. 9, T. 54 S., R. 41 E., southeast corner of Southwest 17th Street and 32d Avenue. Drilled fire well, diameter 6 inches, depth 66 feet. Measuring point, lip of hydrant, 1.9 feet above land-surface datum and 12.64 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 5	9.03	May 1	9.36	July 31	7.82	Oct. 28	8.25
Feb. 4	9.42	31	9.60	Aug. 30	8.49	Dec. 3	8.13
Mar. 4	9.44	June 28	8.58	Oct. 8	7.75	31	8.56
Apr. 1	9.18						

F179 (*945, p. 32; *987, p. 19; 1017, p. 35; 1024, p. 21). City of Miami. SE¼NW¼ sec. 16, T. 54 S., R. 41 E.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Jan. 7	7.10	7.59	Mar. 11	7.52	7.64
14	7.28	7.42	18	7.60	7.65
21	7.37	7.46	25	7.45	7.64
28	7.35	7.40	Apr. 1	7.34	7.46
Feb. 4	7.40	7.56	8	7.30	7.40
11	7.49	7.55	15	7.33	7.41
18	7.47	7.53	22	7.36	7.38
25	7.47	7.58	29	7.34	7.37
Mar. 4	7.50	7.58	May 6	7.23	7.39

F179--Continued.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
May 13	7.26	7.39	Sept.30	5.94	6.00
20	7.37	7.48	Oct. 7	5.92	6.04
27	7.48	7.54	14	5.90	6.08
June 3	6.58	7.48	21	6.08	6.19
July 1	6.76	6.95	28	6.19	6.43
8	6.84	6.92	Nov. 4	6.32	6.54
15	6.85	7.05	11	6.04	6.33
22	7.05	7.20	18	6.00	6.04
29	6.20	7.15	25	6.04	6.17
Aug. 19	6.77	6.83	Dec. 2	6.13	6.34
26	6.82	6.94	9	6.26	6.38
Sept. 2	6.50	6.82	16	6.27	6.33
9	6.19	6.50	23	6.29	6.54
16	6.13	6.22	30	6.54	6.82
23	5.94	6.29			

F180. City of Miami. In Miami, in NE¼SW¼ sec. 4, T. 54 S., R. 41 E., on northwest corner of Southwest 3d Street and 33d Avenue. Drilled fire well, diameter 6 inches, depth 62 feet. Measuring point, lip of hydrant, 1.8 feet above land-surface datum and 15.28 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	12.17	Apr. 30	12.29	July 31	10.87	Oct. 28	11.42
Feb. 4	12.52	May 31	12.70	Aug. 30	11.56	Dec. 2	11.31
Mar. 4	12.62	June 28	11.94	Oct. 8	11.95	31	11.82
Apr. 1	12.44						

F181. City of Miami. In Miami, in NE¼SW¼ sec. 16, T. 54 S., R. 41 E., on southeast corner of Southwest 27th Street and 33d Court. Drilled fire well, diameter 6 inches, depth 52 feet. Measuring point, lip of hydrant, 1.7 feet above land-surface datum and 7.15 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 7	4.03	Apr. 1	4.09	June 28	3.66	Oct. 8	2.66
Feb. 4	4.26	May 1	4.05	Aug. 30	3.20	29	3.23
Mar. 5	4.30	31	3.41				

F184. City of Miami. In Miami, in NW¼SW¼ sec. 4, T. 54 S., R. 41 E., northeast corner of Southwest 3d Street and 36th Avenue. Drilled fire well, diameter 8 inches, depth 86 feet. Measuring point, lip of hydrant, 1.6 feet above land-surface datum and 16.31 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 5	13.87	Apr. 30	14.18	July 31	12.64	Oct. 28	13.13
Feb. 4	14.25	May 31	13.32	Aug. 30	13.29	Dec. 2	13.17
Mar. 4	14.34	June 28	13.73	Oct. 8	12.57	31	13.58
Apr. 1	14.17						

F186 (*886, p. 66; *907, p. 32; 937, p. 24; 945, p. 35; *987, pp. 19-20; 1017, p. 35; 1024, p. 21). City of Miami. SE¼SE¼ sec. 1, T. 54 S., R. 40 E. No measurements made in 1946.

F188. City of Miami. In Miami, in NE¼NE¼ sec. 21, T. 54 S., R. 41 E., on southwest corner of Bird Road and Mary Street. Drilled fire well, diameter 8 inches, depth 115 feet. Measuring point, lip of hydrant, 1.4 feet above land-surface datum and 18.50 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 7	16.88	Apr. 2	16.48	June 28	15.42	Oct. 29	16.30
Feb. 5	17.08	May 1	16.71	Aug. 30	16.33	Dec. 4	16.08
Mar. 5	16.87	31	16.33	Oct. 8	15.87		

F191. City of Miami. In Miami, in SW¼SE¼ sec. 16, T. 54 S., R. 41 E., on northeast corner of Bridgeport Street and South Dixie Highway. Drilled fire well, diameter 6 inches, depth 66 feet. Measuring point, lip of hydrant, 2.3 feet above land-surface datum and 16.33 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	12.58	Apr. 2	12.55	June 28	12.01	Oct. 29	11.86
Feb. 5	12.53	May 1	12.44	Aug. 30	11.80	Dec. 4	11.62
Mar. 5	12.78	31	11.92	Oct. 8	11.29		

F192. City of Miami. In Miami, in NW¼SE¼ sec. 15, T. 54 S., R. 41 E., on southwest corner of Emathla and Secoffee. Drilled fire well, diameter 6 inches, depth 76 feet. Measuring point, lip of hydrant, 1.9 feet above land-surface datum and 12.56 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 7	10.36	Apr. 1	10.12	June 28	10.18	Oct. 8	9.15
Feb. 4	10.28	May 1	9.93	July 31	9.64	28	9.50
Mar. 4	10.32	31	9.57	Aug. 30	9.53	Dec. 4	9.29

F198. City of Miami. In Miami, in SW¼SW¼ sec. 15, T. 54 S., R. 41 E., on southeast corner of Inagua Avenue and Lucaya Street. Drilled fire well, diameter 6 inches, depth 67 feet. Measuring point, lip of hydrant, 2.0 feet above land-surface datum and 13.79 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 7	11.17	Apr. 1	11.07	June 28	11.47	Oct. 8	9.88
Feb. 4	11.10	May 1	10.86	July 31	10.46	28	10.39
Mar. 4	11.19	31	10.46	Aug. 30	10.36	Dec. 4	9.99

F199. City of Miami. In Miami, in SW¼SW¼ sec. 15, T. 54 S., R. 41 E., on west corner of Washington Street and Inagua Avenue. Drilled fire well, diameter 6 inches, depth 88 feet. Measuring point, lip of hydrant, 1.3 feet above land-surface datum and 18.97 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 7	17.33	Apr. 1	17.19	June 28	17.09	Oct. 8	16.20
Feb. 4	17.32	May 1	16.93	July 31	16.59	28	16.66
Mar. 4	17.39	31	16.51	Aug. 30	16.64	Dec. 4	16.30

F202. City of Miami. In Miami, in NE¼NE¼ sec. 21, T. 54 S., R. 41 E., on southeast corner of Mary Avenue and Shipping Street. Drilled fire well, diameter 6 inches, depth 62 feet. Measuring point, lip of hydrant, 2.4 feet above land-surface datum and 17.89 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Jan. 7	14.53	Apr. 2	14.25	June 28	15.91	Oct. 29	13.75
Feb. 5	14.64	May 1	14.25	Aug. 30	13.81	Dec. 4	13.42
Mar. 5	14.44	31	13.91	Oct. 8	13.39		

F210 (*987, p. 20; 1017, p. 35; 1024, p. 21). City of Miami. SW¼NE¼ sec. 13, T. 53 S., R. 41 E.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Jan. 7	6.98	7.35	Mar. 4	7.88	8.04
14	7.35	7.68	11	7.92	8.15
21	7.68	7.75	18	8.06	8.15
28	7.67	7.77	25	7.85	8.06
Feb. 4	7.77	7.91	Apr. 1	7.72	7.89
11	7.89	7.96	8	7.73	7.82
18	7.92	7.98	15	7.82	7.91
25	7.97	8.04	22	7.86	7.97

F210--Continued.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Apr. 29	7.90	7.98	Sept. 2	7.00	7.55
May 6	7.88	8.03	9	6.95	7.00
13	7.91	8.04	16	6.92	7.00
20	7.99	8.09	23	6.95	7.11
27	7.97	8.12	30	6.93	6.97
June 3	7.80	7.97	Oct. 7	6.50	6.96
10	7.48	7.87	14	6.48	6.65
17	7.25	7.49	21	6.63	6.85
24	7.39	7.75	28	6.59	6.93
July 1	7.62	7.79	Nov. 4	6.59	6.88
8	6.32	7.62	11	6.32	6.80
15	6.79	7.29	18	6.21	6.34
22	7.29	7.60	25	6.33	6.63
29	6.74	7.59	Dec. 2	6.63	6.92
Aug. 5	6.74	7.07	9	6.82	6.91
12	7.07	7.40	16	6.66	6.95
19	7.39	7.53	23	6.69	....
26	7.52	7.64	30	....	7.29

F212 (*1017, p. 36). City of Miami. SW¼NE¼ sec. 32, T. 52 S., R. 41 E. No measurements made in 1946.

F213 (*1017, p. 37; 1024, p. 22). City of Miami. SW¼SW¼ sec. 15, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	15.95	Apr. 1	15.86	June 28	15.76	Oct. 8	14.82
Feb. 4	15.91	May 1	15.58	July 31	15.16	29	15.27
Mar. 4	16.06	31	15.20	Aug. 30	15.20	Dec. 4	14.93

F214 (*1017, p. 43; 1024, p. 22). City of Miami. SE¼SE¼ sec. 13, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 3	9.31	May 2	10.25	Sept. 4	9.23
Mar. 6	10.28	July 3	9.49	Oct. 31	9.07

F218 (*1017, p. 44; 1024, p. 22). City of Miami. NW¼SW¼ sec. 18, T. 53 S., R. 42 E.

Water level, in feet below land-surface datum, 1946

Jan. 3	9.02	May 2	9.85	Sept. 4	8.94
Mar. 6	9.92	July 3	9.17	Oct. 31	8.77

F225 (*1017, p. 45; 1024, p. 23). City of Miami. NW¼SW¼ sec. 7, T. 53 S., R. 42 E. Water levels, in feet below land-surface datum, 1946: Jan. 3, 7.20; July 3, 7.32.

F226 (*1017, p. 46; 1024, p. 23). City of Miami. NW¼SW¼ sec. 18, T. 53 S., R. 42 E. Water level, in feet below land-surface datum, 1946: May 3, 15.67.

F228 (*1017, p. 46; 1024, p. 23). City of Miami. NW¼SW¼ sec. 31, T. 52 S., R. 42 E. Water levels, in feet below land-surface datum, 1946: Jan. 3, 11.42; July 3, 11.31.

F233 (*886, p. 67; *907, p. 30; 937, p. 24; 945, p. 33; *987, p. 21; 1017, p. 47; 1024, p. 23). City of Miami. SW¼SE¼ sec. 33, T. 53 S., R. 41 E. Water level, in feet below land-surface datum, 1946: Jan. 5, 9.71.

F234 (*945, p. 33; *987, p. 21; 1017, p. 47; 1024, p. 23). City of Miami. NW¼NW¼ sec. 27, T. 53 S., R. 41 E. Water levels, in feet below land-surface datum, 1946: June 3, 7.04; July 1, 7.13.

F235 (*1017, p. 47; 1024, p. 23). City of Hialeah. NW¼SE¼ sec. 20, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	5.97	Apr. 29	5.75	June 27	5.80	Sept.30	5.05
Feb. 27	5.82	May 4	5.81	Aug. 3	5.42	Oct. 30	5.29
Mar. 27	5.52	29	5.67	31	5.47	Dec. 30	5.74

F236 (*1017, p. 48; 1024, p. 23). City of Hialeah. SE¼NW¼ sec. 20, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	6.69	Apr. 29	6.55	Aug. 3	5.99	Oct. 30	5.92
Feb. 27	6.60	May 29	6.40	31	6.10	Nov. 29	5.86
Mar. 27	6.26	June 27	6.43	Sept.30	5.61	Dec. 30	6.38

F237 (*1017, p. 49; 1024, p. 23). City of Hialeah. SE¼NW¼ sec. 20, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	6.12	Apr. 29	6.01	Aug. 3	5.29	Oct. 30	5.31
Feb. 27	6.08	May 29	5.86	31	5.48	Nov. 29	5.27
Mar. 27	5.72	June 27	5.81	Sept.30	5.04	Dec. 30	5.77

F238 (*1017, p. 50; 1024, p. 23). City of Hialeah. SW¼NW¼ sec. 17, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	7.08	Apr. 30	7.18	Aug. 3	6.00	Oct. 30	6.26
Feb. 28	7.16	May 29	6.72	31	6.46	Nov. 29	6.12
Mar. 28	6.87	June 27	6.70	Sept.30	6.08	Dec. 30	6.70

F239 (*1017, p. 50; 1024, p. 23). City of Hialeah. NW¼NW¼ sec. 17, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	8.47	Apr. 30	8.57	Aug. 3	7.37	Oct. 30	7.65
Feb. 28	8.56	May 29	8.32	31	7.84	Nov. 29	7.52
Mar. 28	8.27	June 27	8.07	Sept.30	7.47	Dec. 30	8.08

F240 (*886, p. 67; *907, p. 30; 937, p. 24; 945, p. 34; *987, p. 22; 1017, p. 51; 1024, p. 23). City of Hialeah. NW¼NE¼ sec. 8, T. 53 S., R. 41 E. Water level, in feet below land-surface datum, 1946: May 20, 7.54.

F243 (*945, p. 34; *987, p. 22; 1017, p. 51; 1024, p. 24). City of Hialeah. NE¼NE¼ sec. 31, T. 52 S., R. 41 E. No measurements made in 1946.

F245 (*1017, p. 51; 1024, p. 24). City of Hialeah. NW¼SW¼ sec. 32, T. 52 S., R. 41 E. No measurements made in 1946.

F246 (*1017, pp. 51-52; 1024, p. 24). City of Hialeah. SW¼NE¼ sec. 5, T. 53 S., R. 41 E. No measurements made in 1946.

F253 (*945, p. 35; *987, p. 22; 1017, p. 52; 1024, p. 24). City of Hialeah. SE¼NW¼ sec. 12, T. 53 S., R. 40 E. No measurements made in 1946.

F257 (*1017, pp. 52-53; 1024, p. 24). City of Hialeah. NW¼SW¼ sec. 7, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Apr. 30	3.39	Aug. 31	2.41	Oct. 30	2.14
Aug. 3	2.39	Sept.30	1.82	Nov. 29	2.13

F260 (*1017, pp. 53-54; 1024, p. 24). City of Hialeah. SE¼SW¼ sec. 7, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	7.33	Apr. 30	7.59	Aug. 3	6.36	Oct. 30	6.57
Feb. 28	7.49	May 29	7.36	31	6.76	Nov. 29	6.42
Mar. 28	7.24	June 27	6.93	Sept.30	6.31	Dec. 30	6.98

F261 (*1017, pp. 54-55; 1024, p. 24). City of Hialeah. NE¼SE¼ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	6.48	Apr. 30	6.50	Aug. 3	5.46	Oct. 30	5.60
Feb. 28	6.48	May 29	6.23	31	5.76	Nov. 29	5.49
Mar. 28	6.04	June 27	6.08	Sept.30	5.39	Dec. 30	6.04

F263 (*1017, p. 55; 1024, p. 24). City of Hialeah. SE¼SE¼ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	6.97	Apr. 30	6.97	Aug. 3	5.97	Oct. 30	4.87
Feb. 28	6.91	May 29	5.70	31	6.24	Nov. 29	5.98
Mar. 28	6.59	June 27	6.57	Sept.30	5.85	Dec. 30	6.55

F264 (*1017, p. 56; 1024, p.24). City of Hialeah. SE¼NE¼ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	6.75	Apr. 30	6.80	Aug. 3	5.69	Oct. 30	5.86
Feb. 28	6.74	May 29	6.52	31	6.03	Nov. 29	5.74
Mar. 28	6.42	June 27	6.34	Sept.30	5.65	Dec. 30	6.34

F265 (*1017, p. 57; 1024, p. 24). City of Hialeah. NE¼NE¼ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	6.36	Apr. 30	6.45	Aug. 3	5.28	Oct. 30	5.52
Feb. 28	6.42	May 29	6.18	31	5.69	Nov. 29	5.38
Mar. 28	6.12	June 27	5.95	Sept.30	5.31	Dec. 30	5.96

F266 (*1017, p. 58; 1024, p.25). City of Hialeah. NW¼NE¼ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	7.19	Apr. 30	7.33	Aug. 3	6.12	Oct. 30	6.38
Feb. 28	7.27	May 29	7.11	31	6.56	Nov. 29	6.25
Mar. 28	7.01	June 27	6.81	Sept.30	6.18	Dec. 30	6.81

F268 (*886, p. 67; *907, p. 31; 937, p. 25; 945, p. 35; *987, p. 22; 1017, p. 59; 1024, p. 25). City of Hialeah. SW¼SE¼ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	5.79	Apr. 30	6.76	Aug. 3	4.81	Oct. 30	6.03
Feb. 28	5.70	May 29	5.48	31	4.99	Nov. 29	4.60
Mar. 28	5.36	June 27	5.38	Sept.30	4.61	Dec. 30	5.35

F270 (*1017, p. 59; 1024, p. 25). City of Hialeah. SE¼NW¼ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	6.05	Apr. 30	6.13	Aug. 3	5.02	Oct. 30	5.12
Feb. 28	6.00	May 29	5.74	31	5.24	Nov. 29	5.02
Mar. 28	5.62	June 27	5.60	Sept.30	4.83	Dec. 30	5.63

F271 (*1017, p. 60; 1024, p. 25). City of Hialeah. NW¼NE¼ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	7.32	Apr. 30	7.40	Aug. 3	6.28	Oct. 30	6.52
Feb. 28	7.34	May 29	7.07	31	6.57	Nov. 29	6.32
Mar. 28	6.98	June 27	6.89	Sept.30	6.17	Dec. 30	6.91

F273 (*945, p. 36; *987, p. 22; 1017, p. 61; 1024, p. 25). Town of North Miami. SW¼NE¼ sec. 29, T. 52 S., R. 42 E. No measurements made in 1946.

F279 (*1017, p. 61; 1024, p. 25). Town of North Miami. SE¼SW¼ sec. 30, T. 52 S., R. 42 E. Water level, in feet below land-surface datum, 1946: Jan. 3, 6.45.

F281 (*1017, p. 62; 1024, p. 25). Town of North Miami. NE¼NW¼ sec. 30, T. 52 S., R. 42 E. No measurements made in 1946.

F283 (*1017, p. 63; 1024, p. 25). Town of North Miami. NW¼NW¼ sec. 18, T. 52 S., R. 42 E. No measurements made in 1946.

F284 (*886, p. 66; *907, p. 28; 937, p. 25; 945, p. 36; *987, p. 23; 1017, p. 63; 1024, p. 25). Town of North Miami. SW¼SE¼ sec. 26, T. 52 S., R. 41 E. Water levels, in feet below land-surface datum, 1946: Jan. 3, 9.59; July 3, 9.14.

F288 (*886, p. 66; *907, p. 28; 937, p. 25; 945, p. 36; 987, p. 23; 1017, p. 63; 1024, p. 25). Town of North Miami Beach. SW¼SW¼ sec. 7, T. 52 S., R. 42 E. No measurements made in 1946.

F296 (*1017, p. 64; 1024, p. 25). Town of North Miami Beach. SW¼SW¼ sec. 21, T. 52 S., R. 42 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 2	8.17	May 2	9.63	Sept. 4	7.84
Mar. 6	8.69	July 2	7.78	Oct. 31	7.98

F297 (*1017, p. 64; 1024, p. 26). Town of North Miami. NW¼NW¼ sec. 29, T. 52 S., R. 42 E. Water levels, in feet below land-surface datum, 1946: Jan. 3, 7.51; July 3, 6.96.

F299 (*1017, p. 65; 1024, p. 26). Village of Biscayne Park. SE¼SE¼ sec. 30, T. 52 S., R. 42 E. No measurements made in 1946.

F300 (*1017, p. 66; 1024, p. 26). Town of North Miami Beach. SW¼SW¼ sec. 9, T. 52 S., R. 42 E. Water levels, in feet below land-surface datum, 1946: Jan. 2, 8.90; July 2, 8.66.

F302 (*1017, p. 67; 1024, p. 26). City of Coral Gables. NE¼NE¼ sec. 17, T. 54 S., R. 41 E. No measurements made in 1946.

F303. City of Coral Gables. In Coral Gables, in SW¼SE¼ sec. 8, T. 54 S., R. 41 E., on northeast corner of Le Jeune Road and Coral Way. Drilled fire well, diameter 4 inches, depth 16.4 feet. Measuring point, top of casing, 1.25 feet above land-surface datum and 12.04 feet above mean sea level, 1929 adjustment.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Mar. 11	9.68	9.74	Aug. 12	8.25	8.68
18	9.74	9.79	19	8.68	8.88
25	9.66	9.76	26	8.75	8.92
Apr. 1	9.42	9.66	Sept. 2	8.44	8.75
8	9.40	9.44	9	7.98	8.44
15	9.42	9.52	16	7.96	8.09
22	9.42	9.52	23	7.71	8.20
29	9.52	9.59	30	7.72	8.00
May 6	9.38	9.60	Oct. 7	8.00	8.07
13	9.38	9.52	14	7.92	8.08
20	9.44	9.54	21	8.08	8.22
27	9.52	9.59	28	8.22	8.45
June 3	8.61	9.56	Nov. 4	8.24	8.51
10	8.45	8.64	11	8.09	8.27
17	8.31	8.48	18	8.02	8.09
24	8.48	8.90	25	8.06	8.21
July 1	8.60	8.80	Dec. 2	8.11	8.38
8	8.59	8.75	9	8.33	8.38
15	8.59	8.94	16	8.19	8.42
22	8.94	9.14	23	8.26	8.51
29	7.53	9.02	30	8.51	8.71
Aug. 5	6.58	8.25			

F307 (*1017, p. 68; 1024, p. 26). City of Coral Gables. NW¼NW¼ sec. 20, T. 54 S., R. 41 E. No measurements made in 1946.

F309 (*945, p. 37; *987, p. 23; 1017, p. 68; 1024, p. 26). City of Coral Gables. NE¼SE¼ sec. 18, T. 54 S., R. 41 E. No measurements made in 1946.

F310 (*1017, pp. 68-69; 1024, p. 26). City of Coral Gables. NW¼NE¼ sec. 7, T. 54 S., R. 41 E. No measurements made in 1946.

F317 (*1017, pp. 69-70; 1024, p. 26). City of Coral Gables. SW¼NW¼ sec. 7, T. 54 S., R. 41 E. No measurements made in 1946.

F319 (*1017, p. 70; 1024, p. 26). Town of South Miami. SE¼SE¼ sec. 25, T. 54 S., R. 40 E.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Jan. 7	9.20	9.31	May 13	9.68	9.80
14	9.31	9.44	20	9.30	9.70
21	9.44	9.49	27	9.34	9.47
28	9.43	9.48	June 3	8.53	9.45
Feb. 4	9.48	9.59	10	8.31	8.70
11	9.58	9.64	17	8.16	8.34
18	9.62	9.65	24	8.34	8.75
25	9.64	9.77	July 1	8.61	8.71
Mar. 4	9.75	9.78	8	8.61	8.67
11	9.73	9.87	15	8.64	8.90
18	9.85	9.88	22	8.90	9.07
25	9.76	9.88	29	7.78	9.04
Apr. 1	9.53	9.81	Aug. 5	7.79	8.26
8	9.52	9.66	12	8.26	8.58
15	9.66	9.76	19	8.51	8.60
22	9.73	9.83	26	8.05	8.64
29	9.83	9.88	Sept. 2	6.85	8.05
May 6	9.67	9.88	9	6.88	7.42

F319--Continued.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Sept.30	7.00	7.47	Nov. 18	8.04	8.14
Oct. 7	7.46	7.54	25	8.14	8.33
14	7.40	7.71	Dec. 2	8.33	8.53
21	7.71	7.94	9	8.44	8.53
28	7.94	8.24	16	8.45	8.55
Nov. 4	8.14	8.35	23	8.52	8.65
11	8.10	8.23	30	8.64	8.82

F322 (*1017, p. 71; 1024, p. 26). Town of South Miami. NW¼SE¼ sec. 25, T. 54 S., R. 40 E. No measurements made in 1946.

F331 (*945, p. 37; *987, p. 23; 1017, p. 71; 1024, p. 26). Town of South Miami. NE¼NE¼ sec. 35, T. 54 S., R. 40 E. No measurements made in 1946.

F332 (*1017, p. 71; 1024, p. 26). City of Hialeah. SW¼NW¼ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	5.01	Apr. 30	5.16	Aug. 3	4.14	Oct. 30	4.02
Feb. 27	4.89	May 29	4.62	31	4.07	Nov. 30	4.05
Mar. 27	4.44	June 27	4.44	Oct. 1	3.58	Dec. 30	4.63

F334 (*1017, p. 72; 1024, p. 27). Town of Homestead. SE¼NE¼ sec. 7, T. 57 S., R. 39 E. No measurements made in 1946.

F358 (*1017, p. 73; 1024, p. 27). Town of Homestead. NE¼NE¼ sec. 13, T. 57 S., R. 38 E.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Jan. 7	5.20	5.40	July 15	2.72	3.76
14	5.40	5.66	22	3.76	4.32
21	5.66	5.82	29	2.40	4.28
28	5.69	5.90	Aug. 5	2.74	3.71
Feb. 4	5.90	6.10	12	3.71	4.05
11	6.10	6.32	19	3.73	4.34
18	6.32	6.48	26	3.73	4.37
25	6.43	6.56	Sept. 2	3.65	4.36
Mar. 4	6.19	6.50	9	3.08	3.65
11	6.20	6.45	16	3.14	3.50
18	6.45	6.68	23	3.25	3.67
25	6.68	6.87	30	3.30	3.63
Apr. 1	6.21	6.97	Oct. 7	2.69	3.53
8	6.21	6.51	14	2.73	3.45
15	6.51	6.88	21	3.45	3.98
22	6.88	7.08	28	3.98	4.24
29	7.08	7.36	Nov. 4	3.55	4.38
May 6	6.73	7.47	11	3.53	4.03
13	6.42	6.73	18	4.03	4.44
20	4.41	6.67	25	4.44	4.60
27	4.52	5.06	Dec. 2	4.60	4.84
10	3.78	4.03	9	4.84	5.03
17	2.98	3.78	16	4.98	5.12
24	3.41	4.15	23	4.98	5.16
July 1	3.16	3.89	30	5.16	5.26
8	2.67	3.19			

F364 (*1017, p. 74; 1024, p. 27). Town of Homestead. NE¼NE¼ sec. 12, T. 57 S., R. 38 E. No measurements made in 1946.

F378 (*1017, p. 75; 1024, p. 27). Town of Florida City. SW¼SE¼ sec. 24, T. 57 S., R. 38 E.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Jan. 14	5.01	5.27	July 8	2.47	3.06
21	5.27	5.39	15	2.62	3.59
28	5.22	5.41	22	3.59	3.06
Feb. 4	5.41	5.62	29	2.05	3.94
11	5.62	5.80	Aug. 5	2.68	3.56
18	5.80	5.92	12	3.56	3.86
25	5.70	6.00	19	3.35	4.06
Mar. 4	5.46	5.84	26	3.35	4.11
11	5.56	5.88	Sept. 2	3.22	4.07
18	5.88	6.13	9	3.04	3.35
25	6.13	6.28	16	3.09	3.32
Apr. 1	5.38	6.37	23	2.93	3.46
8	5.52	5.94	30	3.09	3.43
15	5.94	6.34	Oct. 7	2.55	3.40
22	6.34	6.53	14	2.73	3.29
29	6.53	6.79	21	3.29	3.75
May 6	5.85	6.88	28	3.75	3.94
13	5.71	6.03	Nov. 18	....	4.14
20	4.21	6.12	25	4.12	4.32
27	4.23	4.59	Dec. 2	4.32	4.50
June 10	3.39	3.75	9	4.50	4.65
17	2.62	3.39	16	4.50	4.72
24	3.27	3.99	23	4.57	4.78
July 1	2.95	3.60	30	4.71	4.85

F379 (*1017, p. 75; 1024, p. 27). Town of Naranja. NW¼NW¼ sec. 34, T. 56 S., R. 39 E. Water levels, in feet below land-surface datum, 1945: Jan. 8, 6.98; July 3, 4.76.

F380 (*1017, p. 76; 1024, p. 27). Town of Princeton. NW¼NW¼ sec. 26, T. 56 S., R. 39 E. Water level, in feet below land-surface datum, 1946: Jan. 8, 8.42.

F381 (*1017, p. 76; 1024, p.27). J. D. DeBuchananne. SW¼SW¼ sec. 21, T. 56 S., R. 39 E. No measurements made in 1946.

F384 (*1017, p. 77; 1024, p. 27). Bjorkman. SW¼SW¼ sec. 10, T. 56 S., R. 39 E. No measurements made in 1946.

F385 (*1017, p. 77; 1024, p. 27). Town of Goulds. SE¼NW¼ sec. 13, T. 56 S., R. 39 E. Water level, in feet below land-surface datum, 1946: July 5, 6.32.

F387 (*1017, p. 78; 1024, p.27). State of Florida. NW¼SE¼ sec. 15, T. 58 S., R. 37 E. Water levels, in feet below land-surface datum, 1946: Jan. 8, 2.73; June 8, 3.63; Oct. 23, 5.01.

F393 (*1017, p. 79; 1024, p. 28). City of Miami Springs. NW¼NE¼ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	4.84	Apr. 29	4.49	Aug. 3	3.71	Oct. 30	3.57
Feb. 27	4.74	May 29	4.31	31	3.62	Nov. 30	3.69
Mar. 27	4.24	June 27	4.05	Sept.30	3.29	Dec. 30	4.29

F394 (*1017, p. 79; 1024, p. 28). City of Miami Springs. SE¼NE¼ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	5.07	Apr. 29	4.90	Aug. 3	4.17	Oct. 30	4.14
Feb. 27	4.91	May 29	4.70	31	4.25	Nov. 30	4.17
Mar. 27	4.55	June 27	4.64	Sept.30	3.89	Dec. 30	4.79

F396 (*1017, p. 79; 1024, p. 28). City of Miami Springs. NW¼SW¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	3.37	Apr. 30	3.56	Aug. 3	2.82	Oct. 30	2.21
Feb. 28	3.42	May 29	3.35	31	2.44	Nov. 29	2.33
Mar. 27	2.91	June 27	3.25	Oct. 1	2.08	Dec. 30	3.01

F397 (*1017, p. 80; 1024, p. 28). City of Miami Springs. SW¼SW¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	4.38	Apr. 30	4.44	Aug. 3	3.89	Oct. 30	3.22
Feb. 28	4.36	May 29	4.26	31	3.53	Nov. 30	3.34
Mar. 27	3.79	June 27	4.29	Oct. 1	3.06	Dec. 30	4.04

F398 (*1017, p. 80; 1024, p. 28). City of Miami Springs. SW¼SW¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	5.02	Apr. 30	5.05	Aug. 3	4.47	Oct. 30	3.84
Feb. 28	5.00	May 29	4.85	31	4.10	Nov. 29	3.93
Mar. 28	4.42	June 27	4.87	Oct. 1	3.68	Dec. 30	4.64

F399 (*1017, p. 80; 1024, p. 28). City of Miami Springs. SE¼SW¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	4.50	Apr. 30	5.50	Aug. 3	4.80	Oct. 30	4.25
Feb. 28	5.52	May 29	5.30	31	4.45	Nov. 29	4.32
Mar. 28	4.86	June 27	5.23	Oct. 1	4.11	Dec. 30	5.04

F408 (*1024, p. 28). City of Miami Springs. SW¼NW¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	5.38	Apr. 30	5.69	Aug. 3	5.19	Oct. 30	4.39
Feb. 28	5.38	May 29	5.45	31	4.76	Nov. 29	4.54
Mar. 28	5.05	June 27	5.58	Oct. 1	4.19	Dec. 30	5.19

F409 (*1024, p. 29). City of Miami Springs. NW¼SW¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	3.87	Apr. 30	4.99	Aug. 3	4.45	Oct. 30	3.73
Feb. 28	4.82	May 29	4.78	31	4.05	Nov. 29	3.86
Mar. 27	4.32	June 27	4.85	Oct. 1	3.56	Dec. 30	4.53

F410 (*1024, p. 29). City of Miami Springs. SW¼SW¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	5.13	Apr. 30	5.19	Aug. 3	4.48	Oct. 30	3.89
Feb. 28	5.15	May 29	5.01	31	4.14	Nov. 30	3.98
Mar. 27	4.49	June 27	4.91	Oct. 1	3.78	Dec. 30	3.70

F411 (*1024, p. 29). City of Miami Springs. NE¼SW¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	5.16	Apr. 30	5.21	Aug. 3	4.34	Oct. 30	3.88
Feb. 28	5.24	May 29	5.00	31	4.01	Nov. 29	3.94
Mar. 27	4.53	June 27	4.81	Oct. 1	3.84	Dec. 30	4.69

F412 (*1024, p. 29). City of Miami Springs. SE¼SW¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	5.51	Apr. 30	5.44	Aug. 3	4.48	Oct. 30	4.08
Feb. 28	5.58	May 29	5.23	31	4.21	Nov. 29	4.11
Mar. 28	4.74	June 27	4.98	Oct. 1	3.96	Dec. 30	4.92

F413 (*1024, p. 29). City of Miami Springs. SE¼SW¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	6.41	Apr. 30	6.16	Aug. 3	5.08	Oct. 30	4.96
Feb. 28	6.48	May 29	5.96	31	4.86	Nov. 29	4.83
Mar. 28	5.54	June 27	5.62	Oct. 1	4.91	Dec. 30	5.65

F414 (*1024, p. 29). City of Miami Springs. SE¼SE¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	6.51	Apr. 30	5.45	Aug. 3	4.08	Oct. 30	4.29
Feb. 28	6.34	May 29	5.28	31	4.00	Nov. 29	4.19
Mar. 28	5.10	June 27	4.71	Oct. 1	4.19	Dec. 30	5.35

F415 (*1024, p. 29). City of Miami Springs. NW¼SE¼ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	5.43	Apr. 29	5.15	Aug. 3	4.50	Oct. 30	4.39
Feb. 27	5.34	May 29	4.97	31	4.41	Nov. 29	4.36
Mar. 27	4.87	June 27	4.86	Sept. 30	4.16	Dec. 30	4.94

F416 (*1024, p. 30). City of Miami Springs. NW¼SW¼ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	5.20	Apr. 30	5.27	Aug. 3	4.35	Oct. 30	4.08
Feb. 28	4.89	May 29	4.79	31	4.10	Nov. 30	4.18
Mar. 28	4.44	June 27	4.57	Oct. 1	3.64	Dec. 30	4.85

G2 (*1017, pp. 80-81; 1024, p. 30). Geol. Survey, U. S. Dept. of Interior. NW¼SE¼ sec. 13, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	2.85	Apr. 30	4.44	Aug. 3	3.40	Oct. 30	2.34
Feb. 28	3.26	May 29	4.04	31	3.24	Dec. 30	2.89
Mar. 28	3.92	June 27	3.67	Oct. 1	2.28		

G3 (*945, p. 38; *987, p. 23; 1017, p. 81; 1024, p. 30). Geol. Survey, U. S. Dept. of Interior. NE¼SW¼ sec. 13, T. 53 S., R. 40 E.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Jan. 7	2.25	2.64	Apr. 15	3.53	4.01
14	2.64	2.95	22	4.01	4.36
21	2.94	3.11	29	4.31	4.48
28	3.06	3.36	May 6	3.79	4.55
Feb. 4	3.36	3.64	13	3.63	4.23
11	3.58	3.98	20	4.23	4.49
18	3.61	4.07	27	4.17	....
25	3.09	3.61	June 3	3.15	4.24
Mar. 4	3.42	4.10	10	3.31	3.76
11	3.95	4.52	17	3.65	4.01
18	4.27	4.36	24	3.89	4.51
25	3.82	4.27	July 1	3.71	4.45
Apr. 1	3.42	4.86	8	3.30	4.94
8	3.50	3.84	15	3.07	3.94

G3--Continued.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
July 22	3.78	4.17	Oct. 21	2.24	2.48
29	3.04	4.18	28	2.47	2.81
Aug. 5	3.21	4.20	Nov. 4	2.46	2.90
12	4.20	4.43	11	1.93	2.48
19	4.15	4.43	18	2.01	2.87
26	3.79	4.28	25	2.68	3.02
Sept. 2	....	3.79	Dec. 2	2.75	3.12
23	2.76	3.11	9	2.71	3.19
30	2.39	2.93	23	....	3.26
Oct. 7	2.16	2.46	30	3.22	3.71
14	2.36	2.67			

G4 (*1017, p. 82; 1024, p. 30). Geol. Survey, U. S. Dept. of Interior. SW¼SW¼ sec. 13, T. 53 S., R. 40 E. Water levels, in feet below land-surface datum, 1946: Jan. 30, 1.67; Feb. 28, 1.74.

G5 (*1017, p. 83; 1024, p. 31). Geol. Survey, U. S. Dept. of Interior. NE¼SW¼ sec. 13, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	2.77	Apr. 30	3.83	Aug. 3	3.32	Oct. 30	2.14
Feb. 28	2.95	May 29	3.40	31	2.80	Nov. 29	2.34
Mar. 28	3.11	June 27	3.55	Oct. 1	1.39	Dec. 30	3.04

G6 (*1017, p. 84; 1024, p. 31). Geol. Survey, U. S. Dept. of Interior. SW¼SE¼ sec. 13, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	5.47	Apr. 30	6.91	Aug. 3	6.04	Oct. 30	4.94
Feb. 28	6.22	May 29	6.23	31	5.08	Nov. 29	5.67
Mar. 28	6.53	June 27	6.41	Sept.30	5.05	Dec. 30	5.85

G7 (*1017, p. 85; 1024, p. 31). Geol. Survey, U. S. Dept. of Interior. SW¼SW¼ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	7.56	Apr. 30	7.04	Aug. 3	6.02	Nov. 29	6.02
Feb. 28	7.46	May 29	6.80	Sept.30	5.88	Dec. 30	6.77
Mar. 28	6.85	June 27	6.52	Oct. 30	6.13		

G8 (*1017, pp. 85-86; 1024, p. 31). Geol. Survey, U. S. Dept. of Interior. NW¼NE¼ sec. 25, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	7.57	Apr. 30	7.18	Aug. 3	6.04	Nov. 29	5.97
Feb. 28	7.67	May 29	6.99	Oct. 1	5.96	Dec. 30	6.81
Mar. 28	6.78	June 27	6.60	Oct. 30	6.13		

G9 (*1017, pp. 86-87; 1024, p. 31). Geol. Survey, U. S. Dept. of Interior. SW¼NW¼ sec. 3, T. 54 S., R. 40 E. No measurements made in 1946.

G10 (*987, p. 24; 1017, pp. 87-88; 1024, p. 31). Geol. Survey, U. S. Dept. of Interior. NW¼SW¼ sec. 4, T. 54 S., R. 40 E.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Jan. 7	1.22	1.54	Feb. 11	1.85	2.03
14	1.54	1.69	18	1.88	2.13
21	1.58	1.73	25	2.10	2.24
28	1.61	1.74	Mar. 4	1.86	2.27
Feb. 4	1.69	1.85	11	2.13	2.40

G10--Continued.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Mar. 18	2.39	2.65	Aug. 26	0.48	2.04
25	2.65	2.74	Sept. 2	.53	1.13
Apr. 1	1.26	2.69	9	.12	.90
8	1.89	2.45	16	.33	.84
15	2.45	2.73	23	.65	.98
22	2.56	2.81	30	.77	.93
29	2.81	3.07	Oct. 7	.21	.80
May 6	2.56	3.20	14	.23	.68
13	2.55	2.79	21	.68	.93
20	2.57	2.82	28	.86	1.05
27	2.68	2.83	Nov. 4	.25	1.05
June 3	....	2.73	11	.44	.96
10	.80	2.21	18	.59	1.03
17	1.04	2.03	25	.98	1.18
July 1	.87	2.35	Dec. 2	1.18	1.43
22	2.29	2.69	9	1.34	1.56
29	1.19	2.64	16	.78	1.64
Aug. 5	1.49	2.42	23	....	1.57
12	1.87	2.58	30	1.50	1.73
19	1.08	2.46			

G11 (*1017, p. 88; 1024, p. 32). Geol. Survey, U. S. Dept. of Interior. SW¼NW¼ sec. 5, T. 54 S., R. 40 E. No measurements made in 1946.

G12 (*1017, pp. 88-89; 1024, p. 32). Geol. Survey, U. S. Dept. of Interior. SW¼SE¼ sec. 23, T. 53 S., R. 40 E. No measurements made in 1946.

G15 (*1017, pp. 89-90; 1024, p. 32). Geol. Survey, U. S. Dept. of Interior. NE¼SE¼ sec. 25, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	5.10	Apr. 30	5.01	Aug. 3	4.08	Oct. 30	4.10
Feb. 28	5.27	May 29	4.88	31	4.02	Nov. 29	4.05
Mar. 28	4.87	June 27	4.95	Oct. 1	3.89	Dec. 30	4.57

G18 (*1017, p. 90; 1024, p. 32). Geol. Survey, U. S. Dept. of Interior. SW¼SW¼ sec. 7, T. 57 S., R. 40 E. No measurements made in 1946.

G23 (*1017, p. 91; 1024, p. 32). Geol. Survey, U. S. Dept. of Interior. SE¼SE¼ sec. 25, T. 55 S., R. 38 E. No measurements made in 1946.

G24 (*1017, pp. 91-92; 1024, p. 32). Geol. Survey, U. S. Dept. of Interior. SE¼SE¼ sec. 13, T. 55 S., R. 38 E. No measurements made in 1946.

G25 (*1017, p. 92; 1024, p. 32). Geol. Survey, U. S. Dept. of Interior. SE¼SE¼ sec. 1, T. 55 S., R. 38 E. No measurements made in 1946.

G28 (*1017, pp. 92-93; 1024, p. 32). Geol. Survey, U. S. Dept. of Interior. NE¼NE¼ sec. 34, T. 55 S., R. 38 E. No measurements made in 1946.

G36 (*1017, p. 93; 1024, p. 32). Geol. Survey, U. S. Dept. of Interior. NE¼NE¼ sec. 19, T. 54 S., R. 40 E. No measurements made in 1946.

G38 (*1017, pp. 93-94; 1024, p. 32). Geol. Survey, U. S. Dept. of Interior. NW¼NE¼ sec. 1, T. 57 S., R. 39 E. Water levels, in feet below land-surface datum, 1946: Jan. 9, 3.36; Mar. 7, 3.57; Oct. 24, 2.24.

G39 (*1017, p. 94; 1024, p. 32). Geol. Survey, U. S. Dept. of Interior. SW¼NW¼ sec. 22, T. 54 S., R. 40 E. No measurements made in 1946.

G66 (*1017, p. 95; 1024, p. 32). Geol. Survey, U. S. Dept. of Interior. SE¼SE¼ sec. 29, T. 57 S., R. 38 E. No measurements made in 1946.

G67 (*1017, p. 95; 1024, p. 33). Geol. Survey, U. S. Dept. of Interior. SE¼SE¼ sec. 19, T. 55 S., R. 40 E. No measurements made in 1946.

G69 (*1017, p. 96; 1024, p. 33). Geol. Survey, U. S. Dept. of Interior. SW¼NW¼ sec. 11, T. 52 S., R. 39 E. No measurements made in 1946.

G70 (*1017, p. 96; 1024, p. 33). Geol. Survey, U. S. Dept. of Interior. SW¼NE¼ sec. 10, T. 52 S., R. 39 E. No measurements made in 1946.

G71 (*1017, p. 97; 1024, p. 33). Geol. Survey, U. S. Dept. of Interior. SW¼SE¼ sec. 3, T. 52 S., R. 39 E. No measurements made in 1946.

G72 (*945, pp. 39-40; *987, p. 25; 1017, p. 97; 1024, p. 33). Geol. Survey, U. S. Dept. of Interior. NW¼NE¼ sec. 3, T. 52 S., R. 39 E.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Jan. 21	0.03	0.21	July 15	0.91	1.26
28	.21	.40	22	.99	1.42
Feb. 4	.38	.56	29	.48	1.08
11	.56	1.03	Aug. 5	.48	.66
18	1.03	1.40	12	.58	.82
25	1.30	1.60	19	.29	.58
Mar. 4	1.29	1.72	26	.07	.29
11	1.66	2.26	Sept. 2	a .16	.08
18	2.26	2.55	9	a .35	a .16
25	2.27	2.56	16	a .37	a .33
Apr. 1	2.03	2.65	23	a .57	a .36
8	2.36	2.71	30	a .51	a .44
15	2.71	2.97	Oct. 7	a .52	a .44
22	2.97	3.19	14	a .47	a .42
29	3.19	3.42	21	a .42	a .34
May 6	1.79	3.51	28	a .34	a .27
13	1.80	2.33	Nov. 4	a .27	a .21
20	1.80	2.38	11	a .25	a .17
27	2.25	2.37	18	a .24	a .16
June 3	2.32	2.44	25	a .16	a .08
10	1.20	2.44	Dec. 2	a .08	.05
17	1.01	1.53	9	.01	.20
24	1.53	2.20	16	.18	.28
July 1	1.33	2.24	23	.20	.32
8	.87	1.33	30	.32	.45

a Above land-surface datum.

G82 (*1017, pp. 98-99; 1024, p. 33). Geol. Survey, U. S. Dept. of Interior. SW¼SW¼ sec. 15, T. 52 S., R. 41 E. No measurements made in 1946.

G83 (*1017, p. 99; 1024, p. 33). Geol. Survey, U. S. Dept. of Interior. NE¼NE¼ sec. 28, T. 52 S., R. 41 E. No measurements made in 1946.

G86 (*1017, p. 100; 1024, p. 34). Geol. Survey, U. S. Dept. of Interior. SW¼NW¼ sec. 34, T. 52 S., R. 41 E.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Jan. 7	....	5.66	June 17	4.77	5.10
14	5.66	5.80	24	5.02	5.42
21	5.78	5.83	July 1	5.42	5.62
28	5.74	5.78	8	5.02	5.62
Feb. 4	5.74	5.76	15	5.27	5.44
11	5.76	5.80	22	5.44	5.66
18	5.80	5.84	29	4.90	5.70
25	5.84	5.89	Aug. 5	4.97	5.12
Mar. 4	5.89	5.90	12	5.12	5.29
11	5.90	5.91	19	5.29	5.41
18	5.79	5.93	Sept. 9	4.84	5.21
25	5.75	5.79	16	4.93	4.99
Apr. 1	5.70	5.78	23	4.99	5.03
8	5.68	5.70	Oct. 14	4.69	4.80
15	5.68	5.73	21	4.80	4.88
22	5.73	5.81	28	4.85	4.96
29	5.81	5.89	Nov. 11	4.55	....
May 6	5.71	5.95	18	4.51	....
13	5.46	5.71	Dec. 9	5.01	5.13
20	5.46	5.47	16	5.13	5.19
27	5.46	5.48	23	5.19	5.29
June 3	5.48	5.52	30	5.29	5.39
10	5.10	5.52			

G103 (*1017, p. 102; 1024, p. 34). Geol. Survey, U. S. Dept. of Interior. NW¼NW¼ sec. 34, T. 52 S., R. 41 E. No measurements made in 1946.

G105 (*1017, pp. 102-103; 1024, p. 34). Geol. Survey, U. S. Dept. of Interior. NE¼NW¼ sec. 29, T. 52 S., R. 41 E. No measurements made in 1946.

G107 (*1017, p. 103; 1024, p. 34). Geol. Survey, U. S. Dept. of Interior. NE¼SW¼ sec. 18, T. 53 S., R. 42 E. No measurements made in 1946.

G108 (*1017, p. 104; 1024, p. 34). Geol. Survey, U. S. Dept. of Interior. NW¼SE¼ sec. 18, T. 53 S., R. 42 E. No measurements made in 1946.

G109 (*1017, pp. 104-105; 1024, p. 34). Geol. Survey, U. S. Dept. of Interior. NE¼SE¼ sec. 13, T. 53 S., R. 41 E. No measurements made in 1946.

G110 (*1017, p. 105; 1024, p. 34). Geol. Survey, U. S. Dept. of Interior. SW¼NW¼ sec. 21, T. 53 S., R. 41 E. No measurements made in 1946.

G111 (*1017, pp. 105-106; 1024, p. 34). Geol. Survey, U. S. Dept. of Interior. NE¼SE¼ sec. 9, T. 53 S., R. 41 E. No measurements made in 1946.

G112 (*1017, pp. 106-107; 1024, p. 34). Geol. Survey, U. S. Dept. of Interior. NE¼NE¼ sec. 25, T. 53 S., R. 41 E. No measurements made in 1946.

G113 (*945, p. 40; *987, p. 25; 1017, p. 107; 1024, p. 34). Geol. Survey, U. S. Dept. of Interior. SE¼NE¼ sec. 25, T. 53 S., R. 41 E. No measurements made in 1946.

G114 (*1017, p. 107; 1024, p. 35). Geol. Survey, U. S. Dept. of Interior. SE¼SE¼ sec. 25, T. 53 S., R. 41 E. No measurements made in 1946.

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G115 (*1017, pp. 107-108; 1024, p. 35). Geol. Survey, U. S. Dept. of Interior. SE¼NE¼ sec. 26, T. 53 S., R. 41 E. No measurements made in 1946.

G116 (*1017, pp. 108-109; 1024, p. 35). Geol. Survey, U. S. Dept. of Interior. SW¼SE¼ sec. 36, T. 53 S., R. 41 E. No measurements made in 1946.

G117 (*1017, p. 109; 1024, p. 35). Geol. Survey, U. S. Dept. of Interior. North area of sec. 38, T. 54 S., R. 41 E. No measurements made in 1946.

G118 (*1017, pp. 109-110; 1024, p. 35). Geol. Survey, U. S. Dept. of Interior. SW¼SW¼ sec. 15, T. 53 S., R. 41 E. No measurements made in 1946.

G119 (*1017, p. 110; 1024, p. 35). Geol. Survey, U. S. Dept. of Interior. Sec. 36, T. 53 S., R. 41 E. No measurements made in 1946.

G120 (*1017, p. 111; 1024, p. 35). Geol. Survey, U. S. Dept. of Interior. NW¼SW¼ sec. 31, T. 53 S., R. 42 E. No measurements made in 1946.

G121 (*945, p. 41; *987, p. 25; 1017, p. 111; 1024, p. 35). Geol. Survey, U. S. Dept. of Interior. SE¼NE¼ sec. 35, T. 53 S., R. 41 E. No measurements made in 1946.

G122 (*1017, pp. 111-112; 1024, p. 35). Geol. Survey, U. S. Dept. of Interior. Sec. 38, T. 54 S., R. 41 E. No measurements made in 1946.

G123 (*945, pp. 41-42; *987, p. 26; 1017, p. 112; 1024, p. 35). Geol. Survey, U. S. Dept. of Interior. Sec. 38, T. 54 S., R. 41 E. No measurements made in 1946.

G158A (*1017, p. 112; 1024, p. 35). Geol. Survey, U. S. Dept. of Interior. SW¼SW¼ sec. 15, T. 54 S., R. 41 E. No measurements made in 1946.

G165 (*1017, pp. 112-113; 1024, p. 35). Geol. Survey, U. S. Dept. of Interior. NW¼NW¼ sec. 12, T. 53 S., R. 40 E. No measurements made in 1946.

G193 (*1017, p. 113; 1024, p. 35). Geol. Survey, U. S. Dept. of Interior. NW¼NE¼ sec. 29, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	5.03	May 2	4.71	July 30	4.15	Oct. 30	4.46
Feb. 27	4.82	29	4.50	Aug. 31	4.68	Nov. 29	4.17
Mar. 27	4.67	June 27	4.74	Sept.30	4.15	Dec. 30	5.01

G195 (*1017, p. 113; 1024, p. 35). Geol. Survey, U. S. Dept. of Interior. SW¼NW¼ sec. 20, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	4.32	Apr. 29	4.11	Aug. 3	3.57	Oct. 30	3.43
Feb. 27	4.17	May 29	4.92	31	3.57	Nov. 29	3.40
Mar. 27	3.78	June 27	3.99	Sept.30	3.20	Dec. 30	3.95

G197 (*1017, pp. 113-114; 1024, p. 36). Geol. Survey, U. S. Dept. of Interior. SE¼SE¼ sec. 20, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	5.54	Apr. 29	5.31	Aug. 3	5.18	Oct. 30	4.93
Feb. 27	5.37	May 29	5.20	31	5.15	Nov. 29	4.71
Mar. 27	5.22	June 27	5.38	Sept.30	4.67	Dec. 30	5.40

G199 (*1017, p. 114; 1024, p. 36). Geol. Survey, U. S. Dept. of Interior. SE¼SW¼ sec. 20, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	3.87	Apr. 29	3.60	Aug. 3	3.32	Oct. 30	3.05
Feb. 27	3.67	May 29	3.42	31	3.21	Nov. 29	2.96
Mar. 27	3.40	June 27	3.57	Sept.30	2.77	Dec. 30	3.55

G218 (*1024, p. 36). Geol. Survey, U. S. Dept. of Interior. NW¼NW¼ sec. 18, T. 53 S., R. 40 E.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Jan. 7	2.73	2.78	July 8	3.25	3.62
14	2.78	2.86	15	2.99	3.31
21	2.86	2.93	22	3.06	3.36
28	2.93	3.02	29	2.79	3.38
Feb. 4	3.02	3.10	Aug. 5	2.79	2.99
11	3.10	3.43	12	2.99	3.18
18	3.43	3.89	19	2.86	3.11
25	3.79	4.01	26	2.86	2.94
Mar. 4	3.77	4.12	Sept. 2	2.70	2.92
11	4.04	4.40	9	2.58	2.71
18	4.40	4.68	16	2.48	2.58
25	4.52	4.76	23	2.40	2.50
Apr. 1	4.09	4.84	30	2.41	2.45
8	4.17	4.72	Oct. 7	2.40	2.50
15	4.72	5.09	14	2.40	2.45
22	5.09	5.29	21	2.45	2.50
29	5.29	5.58	28	2.50	2.56
May 6	3.68	5.73	Nov. 4	2.48	2.58
13	3.64	4.41	11	2.49	2.60
20	4.06	4.63	18	2.54	2.66
27	4.26	5.01	25	2.66	2.73
June 3	3.93	4.53	Dec. 2	2.73	2.76
10	3.42	4.22	9	2.76	2.86
17	3.31	3.62	16	2.71	2.90
24	3.62	4.31	23	2.72	2.83
July 1	3.57	4.17	30	2.83	2.91

G231 (*1017, p. 114; 1024, p. 36). Geol. Survey, U. S. Dept. of Interior. SW¼SW¼ sec. 7, T. 55 S., R. 41 E. No measurements made in 1946.

G232 (*1017, p. 114; 1024, p. 36). Geol. Survey, U. S. Dept. of Interior. SE¼NE¼ sec. 13, T. 55 S., R. 40 E. No measurements made in 1946.

G235 (*1017, p. 115; 1024, p. 36). Geol. Survey, U. S. Dept. of Interior. SE¼NE¼ sec. 11, T. 55 S., R. 40 E. No measurements made in 1946.

G238 (*1017, p. 115; 1024, p. 36). Geol. Survey, U. S. Dept. of Interior. SE¼NW¼ sec. 15, T. 55 S., R. 40 E. No measurements made in 1946.

G239 (*1017, p. 115; 1024, p. 36). Geol. Survey, U. S. Dept. of Interior. NW¼SW¼ sec. 16, T. 55 S., R. 40 E. No measurements made in 1946.

G254 (*1017, pp. 115-116; 1024, p. 36). Geol. Survey, U. S. Dept. of Interior. SW¼NW¼ sec. 32, T. 54 S., R. 41 E. No measurements made in 1946.

G272 (*1017, p. 116; 1024, p. 36). Geol. Survey, U. S. Dept. of Interior. SW¼SE¼ sec. 22, T. 53 S., R. 40 E. No measurements made in 1946.

G273 (*1017, p. 116; 1024, p. 36). Geol. Survey, U. S. Dept. of Interior. NW¼NW¼ sec. 28, T. 53 S., R. 40 E. No measurements made in 1946.

G275 (*1017, p. 117; 1024, p. 37). Geol. Survey, U. S. Dept. of Interior. NW¼NW¼ sec. 31, T. 53 S., R. 40 E. No measurements made in 1946.

G276 (*1017, p. 117; 1024, p. 37). Geol. Survey, U. S. Dept. of Interior. NW¼NW¼ sec. 33, T. 53 S., R. 39 E. No measurements made in 1946.

G277 (*1017, p. 117; 1024, p. 37). Geol. Survey, U. S. Dept. of Interior. NE¼NE¼ sec. 9, T. 56 S., R. 40 E. No measurements made in 1946.

G282 (*1017, p. 118; 1024, p. 37). Geol. Survey, U. S. Dept. of Interior. NE¼NE¼ sec. 5, T. 56 S., R. 39 E. No measurements made in 1946.

G283 (*1017, p. 118; 1024, p. 37). Geol. Survey, U. S. Dept. of Interior. SW¼SW¼ sec. 17, T. 56 S., R. 40 E. No measurements made in 1946.

G285 (*1017, p. 118; 1024, p. 37). Geol. Survey, U. S. Dept. of Interior. NW¼NW¼ sec. 9, T. 57 S., R. 38 E. No measurements made in 1946.

G348 (*1017, pp. 118-119; 1024, p. 37). Geol. Survey, U. S. Dept. of Interior. SE¼NE¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	3.90	Apr. 30	4.22	Aug. 3	3.13	Oct. 30	2.78
Feb. 28	4.11	May 29	3.74	31	2.84	Nov. 29	3.00
Mar. 28	3.77	June 27	3.53	Oct. 1	2.47		

G349 (*1017, p. 119; 1024, p. 37). Geol. Survey, U. S. Dept. of Interior. SE¼NW¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	3.00	Aug. 3	4.37	Oct. 1	3.55	Nov. 29	3.90
Feb. 28	3.25	31	3.98	30	3.70	Dec. 30	4.42
Mar. 28	3.12						

G350 (*1017, p. 119; 1024, p. 37). Geol. Survey, U. S. Dept. of Interior. NW¼NW¼ sec. 14, T. 54 S., R. 40 E.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Jan. 7	4.14	4.26	May 13	4.82	4.89
14	4.26	4.44	20	4.71	4.90
21	4.44	4.54	27	4.71	4.76
28	4.53	4.58	June 3	4.14	4.74
Feb. 4	4.58	4.70	10	3.54	4.27
11	4.70	4.81	17	3.49	4.04
18	4.81	4.92	24	3.26	4.44
25	4.92	5.05	July 1	3.36	4.05
Mar. 4	5.05	5.10	8	3.33	3.68
11	5.10	5.26	15	3.68	4.06
18	5.26	5.41	22	4.06	4.39
25	5.16	5.47	29	2.67	4.39
Apr. 1	4.60	5.16	Aug. 26	3.25	4.01
8	4.60	4.75	Sept. 2	2.79	3.29
15	4.75	4.83	9	2.64	2.99
22	4.82	4.90	16	2.93	3.15
29	4.90	5.10	30	2.20	3.33
May 6	4.89	5.22	Oct. 14	2.82	3.15

G350--Continued.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Oct. 21	3.15	3.39	Dec. 2	3.49	3.74
28	3.39	3.52	9	3.74	3.85
Nov. 4	2.97	3.54	16	3.41	3.94
11	3.14	3.39	23	3.50	3.89
18	3.14	3.41	30	3.89	4.08
25	3.41	3.55			

G351 (*1017, p. 119; 1024, p. 38). Geol. Survey, U. S. Dept. of Interior. NW¼NW¼ sec. 28, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	5.42	Apr. 29	5.34	Aug. 3	4.91	Oct. 30	4.84
Feb. 27	5.40	May 29	5.35	31	5.09	Nov. 29	4.85
Mar. 27	5.35	June 27	5.20	Sept.30	4.53	Dec. 30	5.25

G352 (*1017, p. 120; 1024, p. 38). Geol. Survey, U. S. Dept. of Interior. NW¼NW¼ sec. 28, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	4.26	Apr. 29	3.97	Aug. 3	3.80	Oct. 30	3.61
Feb. 27	4.05	May 29	4.01	31	3.70	Nov. 29	2.40
Mar. 27	4.05	June 27	4.07	Sept.30	3.30	Dec. 30	4.09

G353 (*1017, p. 120; 1024, p. 38). Geol. Survey, U. S. Dept. of Interior. SE¼NE¼ sec. 29, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	4.75	Apr. 29	4.46	Aug. 3	4.31	Oct. 30	4.06
Feb. 27	4.66	May 29	4.31	31	4.26	Nov. 29	3.80
Mar. 27	4.60	June 27	4.40	Sept.30	3.78	Dec. 30	4.52

G354 (*1017, p. 120; 1024, p. 38). Geol. Survey, U. S. Dept. of Interior. SW¼SW¼ sec. 20, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	5.50	Apr. 29	5.28	Aug. 3	5.02	Oct. 30	4.75
Feb. 27	5.35	May 29	6.20	31	4.83	Nov. 29	4.65
Mar. 27	5.07	June 27	5.25	Sept.30	4.49	Dec. 30	5.20

G355 (*1017, p. 120; 1024, p. 38). Geol. Survey, U. S. Dept. of Interior. NW¼SW¼ sec. 20, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	3.41	Apr. 29	3.17	Aug. 3	2.85	Oct. 30	2.63
Feb. 27	3.26	May 29	3.07	31	2.71	Nov. 29	2.52
Mar. 27	2.92	June 27	3.17	Sept.30	2.33	Dec. 30	3.10

G356 (*1017, p. 120; 1024, p. 38). Geol. Survey, U. S. Dept. of Interior. SE¼SW¼ sec. 20, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 29	5.35	Apr. 29	5.25	Aug. 3	4.82	Oct. 30	4.54
Feb. 27	5.09	May 29	4.87	31	4.73	Nov. 29	4.44
Mar. 27	4.78	June 27	4.99	Sept.30	4.30	Dec. 30	5.07

G357 (*1017, p. 120; 1024, p. 39). Geol. Survey, U. S. Dept. of Interior. NE¼NE¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Apr. 30	4.25	Aug. 3	3.29	Sept.30	2.55	Nov. 30	3.13
June 27	3.63	31	3.02	Oct. 30	3.02	Dec. 30	3.66

G434. Geol. Survey, U. S. Dept. of Interior. In Hialeah, in NW¼NW¼ sec. 18, T. 53 S., R. 41 E., on northeast corner of Red Road and E. 13th Street. Driven observation well, diameter 1¼ inches, depth 7.45 feet. Measuring point, top of casing, 0.8 foot above land-surface datum and 6.40 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 30	5.10	June 27	4.67	Aug. 31	4.12	Oct. 30	3.82
May 29	4.72	Aug. 3	4.22	Sept.30	3.26	Dec. 30	4.78

G435. Geol. Survey, U. S. Dept. of Interior. In Hialeah, in SW¼NE¼ sec. 13, T. 53 S., R. 40 E., 0.3 mile west of Red Road and 0.3 mile north of Miami Canal. Driven observation well, diameter 1¼ inches, depth 9.2 feet. Measuring point, top of casing, 0.6 foot above land-surface datum and 7.25 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Apr. 30	5.70	Aug. 3	4.90	Sept.30	4.15	Nov. 29	4.47
May 29	5.41	31	4.78	Oct. 30	4.40	Dec. 30	5.04
June 27	5.38						

G436. Geol. Survey, U. S. Dept. of Interior. In Hialeah, in SW¼NE¼ sec. 13, T. 53 S., R. 40 E., 0.3 mile west of Red Road and 0.15 mile north of Miami Canal. Driven observation well, diameter 1¼ inches, depth 10.9 feet. Measuring point, top of casing, 0.5 foot above land-surface datum and 7.15 feet, above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Apr. 30	5.90	Aug. 3	5.20	Sept.30	4.26	Nov. 29	4.69
May 29	5.58	31	4.99	Oct. 30	4.55	Dec. 30	5.25
June 27	5.65						

G437. Geol. Survey, U. S. Dept. of Interior. NW¼NW¼ sec. 13, T. 53 S., R. 40 E., 0.1 mile southwest of Miami Canal and 80 feet southeast of Florida East Coast borrow pit. Jetted observation well, diameter 1¼ inches, depth 10 feet. Measuring point, top of casing, 0.9 foot above land-surface datum and 5.70 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Apr. 30	3.19	Aug. 3	3.15	Oct. 1	1.74	Nov. 29	2.33
May 29	3.01	31	2.75	30	2.08	Dec. 30	2.92
June 27	3.54						

G438. Geol. Survey, U. S. Dept. of Interior. SW¼NW¼ sec. 13, T. 53 S., R. 40 E., 0.25 mile west of Miami Canal and 0.35 mile north of city of Miami supply well 19. Jetted observation well, diameter 1¼ inches, depth 11.3 feet. Measuring point, top of casing, 0,8 foot above land-surface datum and 6.14 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Apr. 29	4.38	Aug. 3	3.97	Oct. 1	2.16	Nov. 29	3.09
June 27	4.38	31	3.49	30	2.94	Dec. 30	3.77

G439. Geol. Survey, U. S. Dept. of Interior. SW¼SW¼ sec. 13, T. 53 S., R. 40 E., 0.22 mile east of Florida East Coast borrow pit and 0.1 mile northwest of city of Miami supply well 22. Driven observation well, diameter 1¼ inches, depth 9.8 feet. Measuring point, top of casing, 0.7 foot above land-surface datum and 5.95 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Apr. 30	5.30	Aug. 3	4.48	Sept.30	3.05	Nov. 29	3.43
May 29	4.87	31	4.12	Oct. 30	3.57	Dec. 30	4.17
June 27	4.71						

G440. Geol. Survey, U. S. Dept. of Interior. SW¼SW¼ sec. 13, T. 53 S., R. 40 E., 0.6 mile east of Florida East Coast borrow pit and 0.25 mile northwest of city of Miami supply well 22. Diameter 1¼ inches, depth 9.7 feet. Measuring point, top of casing, 0.7 foot above land-surface datum and 7.25 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 30	5.70	Aug. 3	5.15	Sept.30	3.95	Nov. 29	4.31
May 29	5.47	31	4.74	Oct. 30	4.25	Dec. 30	5.05
June 27	5.52						

G441. Geol. Survey, U. S. Dept. of Interior. In Miami Springs, in SE¼NW¼ sec. 24, T. 53 S., R. 40 E., on northwest corner of Lawn Way and Westward Drive. Driven observation well, diameter 1¼ inches, depth 10 feet. Measuring point, top of casing, 0.7 foot above land-surface datum and 8.29 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1946

Apr. 30	7.50	Aug. 3	6.23	Sept.30	5.87	Nov. 29	6.25
May 29	7.00	31	6.00	Oct. 30	6.20	Dec. 30	7.06
June 27	6.74						

S1A (*907, p. 31; 937, p. 25; 945, p. 42; 1017, p. 120; 1024, p. 39). City of Miami. SW¼NW¼ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	8.19	Apr. 30	6.70	Aug. 3	5.51	Oct. 30	5.70
Feb. 28	7.21	May 29	6.52	31	5.17	Nov. 29	5.58
Mar. 28	6.78	June 27	6.00	Sept.30	5.31	Dec. 30	6.69

S2A (*1017, pp. 120-122; 1024, p. 39). City of Miami. NW¼SW¼ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	9.03	Apr. 30	7.78	Aug. 3	6.62	Oct. 30	6.70
Feb. 28	8.45	May 29	7.70	31	6.30	Nov. 29	6.66
Mar. 28	7.65	June 27	7.08	Sept.30	6.48	Dec. 30	7.80

S3A (*1017, p. 121; 1024, p. 39). City of Miami. NE¼SE¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	9.96	Apr. 30	8.15	Aug. 3	6.81	Oct. 30	7.02
Feb. 28	9.60	May 29	8.40	31	6.56	Nov. 29	7.74
Mar. 28	7.83	June 27	7.80	Sept.30	6.75	Dec. 30	8.91

S4A (*1017, p. 121; 1024, p. 39). City of Miami. SW¼NW¼ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	8.31	Apr. 30	7.54	Aug. 3	6.10	Oct. 30	6.46
Feb. 28	7.77	May 29	7.26	31	5.89	Nov. 29	6.23
Mar. 28	7.07	June 27	6.64	Sept.30	5.89	Dec. 30	7.47

S5A (*1017, p. 121; 1024, p. 39). City of Miami. NE¼SE¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	9.34	Apr. 30	8.15	Aug. 3	6.67	Oct. 30	6.80
Feb. 28	8.69	May 29	7.82	31	6.17	Nov. 29	6.81
Mar. 28	7.64	June 27	7.00	Sept.30	6.34	Dec. 30	7.70

S6A (*1017, p. 122; 1024, p. 39). City of Miami. SW¼SE¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	9.76	Apr. 30	8.16	Aug. 3	6.68	Oct. 30	6.74
Feb. 28	9.73	May 29	8.31	31	6.86	Nov. 29	7.04
Mar. 28	7.99	June 27	7.84	Sept.30	6.75	Dec. 30	8.42

S7A (*1017, p. 122; 1024, p. 39). City of Miami. SW¼SE¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	9.25	Apr. 30	8.42	Aug. 31	6.25	Nov. 29	6.38
Feb. 28	9.41	June 27	7.09	Sept.30	7.06	Dec. 30	7.48
Mar. 28	7.23	Aug. 3	6.40	Oct. 30	7.19		

S8A (*1017, p. 122; 1024, p. 40). City of Miami. SW¼SE¼ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	7.93	Apr. 30	6.57	Aug. 3	5.15	Oct. 30	5.38
Feb. 28	7.76	May 29	6.90	31	5.18	Nov. 29	5.40
Mar. 28	6.20	June 27	5.83	Sept.30	5.37	Dec. 30	6.71

S14A (*1017, p. 122; 1024, p. 40). City of Miami. SE¼SE¼ sec. 13, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	6.67	Apr. 30	7.40	Aug. 3	6.56	Oct. 30	5.76
Feb. 28	6.91	May 29	6.73	31	6.01	Nov. 29	6.29
Mar. 28	6.56	June 27	6.53	Sept.30	5.14	Dec. 30	6.62

S15A (*1017, p. 123; 1024, p. 40). City of Miami. SE¼SE¼ sec. 13, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	5.30	Apr. 30	6.36	Aug. 3	5.42	Oct. 30	4.47
Feb. 28	5.70	May 29	6.01	31	5.57	Nov. 29	4.81
Mar. 28	5.90	June 27	5.70	Sept.30	4.30	Dec. 30	5.10

S16A (*1017, p. 123; 1024, p. 40). City of Miami. SW¼SE¼ sec. 13, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	4.87	Apr. 30	6.70	Aug. 3	5.95	Oct. 30	4.40
Feb. 28	5.73	May 29	5.94	31	5.54	Nov. 29	5.03
Mar. 28	5.87	June 27	6.03	Sept.30	4.47	Dec. 30	5.46

S17A (*1017, p. 123; 1024, p. 40). City of Miami. SE¼SE¼ sec. 13, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1946

Jan. 30	5.26	Apr. 30	6.55	Aug. 3	5.59	Oct. 30	4.43
Feb. 28	5.97	May 29	5.60	31	5.42	Nov. 29	5.32
Mar. 28	5.92	June 27	5.97	Sept.30	4.35	Dec. 30	5.27

S18 (*886, p. 66; *907, p. 28; 937, p. 25; 945, p. 42; *987, p. 26; 1017, p. 123; 1024, p. 40). Model Dairy. NW¼NW¼ sec. 15, T. 52 S., R. 41 E.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Jan. 7	6.97	7.23	Apr. 8	7.75	7.88
14	7.23	7.49	15	7.88	8.05
21	7.49	7.57	22	8.05	8.16
28	7.51	7.64	29	8.16	8.28
Feb. 4	7.64	7.76	May 6	....	8.28
11	7.75	7.85	13	....	7.34
18	7.85	7.92	20	7.34	7.43
25	7.92	8.01	27	7.43	7.53
Mar. 4	7.80	8.01	June 3	7.51	7.54
11	7.80	7.88	10	6.88	7.51
18	7.88	7.97	17	6.43	6.92
25	7.90	7.93	24	6.79	7.37
Apr. 1	7.75	7.96	July 1	7.33	7.62

S18--Continued.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
July 8	7.13	7.33	Oct. 7	6.01	6.52
15	7.01	7.31	14	5.99	6.35
22	7.31	7.52	21	6.35	6.64
29	6.25	7.47	Nov. 4	6.48	....
Aug. 5	6.08	6.70	11	6.32	6.70
12	6.70	7.07	18	6.26	6.54
19	6.97	7.14	25	6.54	6.78
26	6.82	7.22	Dec. 2	6.77	6.97
Sept. 2	6.18	6.87	9	6.95	7.02
9	6.11	6.22	16	6.68	7.09
23	....	6.36	23	6.70	7.07
30	6.36	6.56	30	7.07	7.27

S19 (*886, p. 66; *907, p. 29; 937, p. 26; 945, p. 43; *987, p. 26; 1017, p. 124; 1024, p. 41). NW¼NE¼ sec. 25, T. 53 S., R. 40 E.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Jan. 7	5.69	6.03	July 29	4.41	6.06
14	6.03	6.39	Aug. 5	4.62	....
21	6.39	6.64	12	....	6.10
28	6.57	6.76	19	5.89	6.07
Feb. 4	6.76	7.12	26	5.83	6.31
11	7.12	7.29	Sept. 2	5.03	5.83
18	7.06	7.36	9	4.82	5.19
25	6.84	7.06	16	4.84	5.49
Mar. 4	6.34	6.96	23	4.98	5.49
11	6.32	6.64	30	4.96	....
18	6.51	6.60	Oct. 7	4.49	....
25	5.88	6.54	14	4.42	4.71
Apr. 1	5.70	6.01	21	4.71	5.06
8	5.73	5.96	28	4.94	5.29
15	5.86	6.22	Nov. 4	4.79	5.40
22	6.01	6.22	11	4.94	5.21
29	6.05	6.43	18	4.56	4.95
May 6	5.99	6.55	25	4.77	5.10
13	5.70	6.31	Dec. 2	5.02	5.36
20	6.14	6.34	9	5.29	5.41
27	6.18	6.50	16	4.96	5.46
June 3	4.99	6.28	23	4.99	5.84
10	5.04	5.44	30	5.84	6.05
July 8	....	4.13			

S63 (*1017, p. 125; 1024, p. 41). Graham's Dairy. SE¼NW¼ sec. 30, T. 52 S., R. 40 E. No measurements made in 1946.

S68 (*1017, pp. 125-6; 1024, p. 42). City of Miami. SW¼NW¼ sec. 19, T. 53 S., R. 41 E.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Jan. 7	5.54	5.94	Apr. 8	5.34	5.90
14	5.93	6.49	May 6	5.56	6.64
21	6.46	6.68	27	5.57	6.19
28	6.45	6.84	June 3	5.06	5.68
Feb. 11	7.10	....	10	4.70	5.13
25	....	6.54	17	5.04	5.72
Mar. 4	5.70	6.58	24	5.67	6.49
25	5.42	5.73	July 1	5.26	6.02
Apr. 1	5.21	6.09	8	4.40	5.49

S68--Continued.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
July 15	3.79	5.66	Oct. 7	4.22	4.69
22	5.55	6.11	14	4.05	4.85
29	4.22	5.92	21	4.49	5.07
Aug. 5	4.28	5.56	28	5.04	5.50
12	5.34	5.88	Nov. 4	4.81	5.15
19	5.50	6.15	11	4.37	5.34
26	5.61	6.24	18	4.08	5.30
Sept. 2	4.64	5.77	Dec. 2	....	5.28
9	4.62	5.21	9	4.78	5.34
16	4.85	5.68	16	4.58	5.36
23	4.63	5.22	23	4.79	5.55
30	4.65	5.09	30	5.41	6.01

S84 (*1017, p. 127; 1024, p. 42). Coca Cola Bottling Co. In Miami, in SE¼NW¼ sec. 25, T. 53 S., R. 41 E. Water level, in feet below land-surface datum, 1946: Jan. 5, 14.53.

S171 (*945, pp. 43-44; *987, p. 27; 1017, p. 128; 1024, p. 42). City of Miami. NW¼SE¼ sec. 20, T. 54 S., R. 41 E. No measurements made in 1946.

S182 (*945, pp. 44-45; *987, p. 27; 1017, p. 128; 1024, p. 42). International Fruit Co. NW¼NW¼ sec. 5, T. 56 S., R. 40 E.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Jan. 7	6.74	7.00	July 8	4.99	5.72
14	7.00	7.28	15	5.24	5.75
21	7.28	7.53	22	5.75	6.29
28	7.53	7.67	29	5.08	6.36
Feb. 4	7.67	7.90	Aug. 5	5.18	5.75
11	7.90	8.12	12	5.68	6.17
18	8.12	8.31	19	5.62	6.20
25	8.31	8.49	26	5.89	6.24
Mar. 4	8.49	8.56	Sept. 2	5.00	6.24
11	8.56	8.72	9	4.36	6.00
18	8.72	8.88	16	4.42	4.72
25	8.88	9.04	23	4.70	4.86
Apr. 1	8.61	9.12	30	4.68	4.83
8	8.61	8.74	Oct. 7	3.98	4.68
15	8.74	9.03	14	3.98	4.38
22	9.03	9.25	21	4.38	4.96
29	9.25	9.46	28	4.96	5.41
May 6	9.00	9.57	Nov. 4	4.76	5.58
13	8.92	9.02	11	4.75	5.25
20	8.35	9.07	18	4.76	5.24
27	8.31	8.35	25	4.83	5.49
June 3	6.69	8.31	Dec. 2	4.93	5.43
10	6.28	6.75	9	5.43	5.82
17	5.74	6.28	16	5.82	6.02
24	5.86	6.35	23	6.00	6.21
July 1	5.72	6.28	30	6.21	6.59

S183 (*1017, pp. 128-129; 1024, p. 43). E. L. Cotton. NW¼NW¼ sec. 4, T. 55 S., R. 40 E. No measurements made in 1946.

S185 (*1017, p. 129; 1024, p. 43). Judge Price. SW¼SW¼ sec. 1, T. 56 S., R. 39 E. No measurements made in 1946.

S186 (*1017, p. 130; 1024, p. 43). Mr. Wellbourn. SE¼SE¼ sec. 15, T. 56 S., R. 38 E. No measurements made in 1946.

S187 (*1017, pp. 130-131; 1024, p. 43). C. Enquist. SE¼SE¼ sec. 34, T. 56 S., R. 38 E. No measurements made in 1946.

S188 (*1017, p. 131; 1024, p. 43). E. C. Byars. SE¼NE¼ sec. 2, T. 57 S., R. 38 E. No measurements made in 1946.

S189 (*1017, pp. 131-132; 1024, p. 43). Dr. C. F. Robinson. SW¼NE¼ sec. 31, T. 56 S., R. 39 E. No measurements made in 1946.

S191 (*945, pp. 45-46; *987, p. 27; 1017, p. 132; 1024, p. 43). A. H. Singleton. SE¼SW¼ sec. 19, T. 56 S., R. 39 E. No measurements made in 1946.

S196 (*907, p. 33; 937, p. 26; 945, p. 46; *987, p. 27; 1017, p. 132; 1024, p. 43). University of Florida Experiment Station. SW¼SE¼ sec. 35, T. 56 S., R. 38 E.

Water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	7.06	8.03	8.97	8.92	9.97	6.00	5.69	5.08	5.73	4.84	6.36	6.90
2	7.10	8.06	8.85	8.88	10.01	6.13	5.00	5.25	5.72	4.95	6.03	6.95
3	7.13	8.08	8.76	8.86	10.03	6.21	5.04	5.37	5.63	5.05	5.97	6.98
4	7.16	8.12	8.73	8.86	10.00	6.34	5.12	5.48	5.19	5.15	5.93	7.02
5	7.20	8.15	8.70	8.89	9.86	6.37	4.99	5.58	5.26	5.27	5.65	7.05
6	7.22	8.18	8.72	8.93	9.76	6.34	5.01	5.68	5.32	5.36	5.69	7.11
7	7.25	8.21	8.74	8.96	9.43	6.22	5.05	5.58	5.18	4.60	5.79	7.14
8	7.32	8.26	8.77	9.00	9.18	6.03	5.11	5.70	5.11	4.58	5.90	7.17
9	7.33	8.27	8.80	9.04	9.07	6.07	4.92	5.78	5.07	4.71	5.99	7.20
10	7.35	8.33	8.84	9.11	9.03	6.12	4.97	5.86	5.09	4.88	6.06	7.21
11	7.41	8.39	8.90	9.16	9.02	5.55	5.10	5.93	5.17	5.00	6.14	7.24
12	7.44	....	8.93	9.22	9.03	5.20	5.23	5.98	5.28	5.07	6.18	7.27
13	7.51	....	8.97	9.27	9.07	4.97	5.01	6.00	5.35	5.18	6.24	7.30
14	7.55	....	8.99	9.34	9.12	5.00	5.56	6.02	5.40	5.27	6.30	7.24
15	7.57	8.80	9.03	9.38	9.15	5.07	5.66	6.08	5.23	5.38	6.36	7.12
16	7.62	8.86	9.08	9.43	9.18	5.18	5.78	6.12	5.29	5.48	6.43	7.08
17	7.64	8.89	9.10	9.47	9.10	5.28	5.90	6.18	5.37	5.56	6.48	....
18	7.68	8.90	9.13	9.51	8.13	5.43	6.02	6.25	5.48	5.64	6.53	7.10
19	7.72	8.92	9.16	9.55	7.42	5.47	6.10	6.28	5.54	5.73	6.58	7.15
20	7.73	....	9.20	9.59	7.09	5.67	6.22	6.17	5.30	5.83	6.53	7.17
21	7.77	8.98	9.23	9.62	7.10	5.80	6.28	6.10	5.30	5.90	6.66	7.21
22	7.79	9.02	9.27	9.65	7.20	5.94	6.21	6.15	5.12	6.00	6.69	7.25
23	7.82	9.04	9.30	9.68	7.24	6.07	6.17	6.20	5.12	6.05	6.72	7.28
24	7.84	9.04	9.33	9.73	7.32	6.16	6.12	6.26	5.18	6.12	6.73	7.32
25	7.85	9.05	9.36	9.75	7.37	6.08	5.72	6.30	5.23	6.19	6.74	7.35
26	7.86	9.05	9.39	9.78	7.40	6.06	4.75	6.32	5.30	6.26	6.71	7.39
27	7.87	9.06	9.42	9.83	7.43	5.89	4.49	6.38	5.35	6.29	6.75	7.43
28	7.91	9.06	9.46	9.87	7.42	6.87	4.50	6.40	5.42	6.30	6.79	7.45
29	7.92		9.34	9.92	6.47	5.97	4.66	....	5.40	6.36	6.82	7.46
30	7.95		9.08	9.94	5.88	6.01	4.89	6.00	5.14	6.56	6.87	7.47
31	8.00		8.97		5.87		4.95	5.77		6.48		7.50

S290 (*945, p. 47; *987, p. 28; 1017, p. 132; 1024, p. 44). J. C. Kersey. NE¼NE¼ sec. 3, T. 52 S., R. 41 E. No measurements made in 1946.

S539 (*1024, p. 44). U. S. Dept. of Agriculture. NW¼NE¼ sec. 24, T. 55 S., R. 40 E.

High and low water levels, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	16.33	16.52	16.38	16.76	16.42	16.71	16.11	16.66	16.17	16.62	15.62	16.12
2	16.25	16.58	16.42	16.74	16.43	16.77	16.05	16.50	16.18	16.66	15.76	16.23
3	16.26	16.55	16.34	16.75	16.43	16.83	16.08	16.55	16.21	16.65	15.96	16.29
4	16.12	16.57	16.26	16.65	16.34	16.78	16.08	16.53	15.76	16.28	15.98	16.29
5	16.05	16.41	16.18	16.58	16.27	16.70	16.12	16.59	15.96	16.49	15.94	16.25
6	16.09	16.44	16.16	16.58	16.20	16.64	16.19	16.63	16.25	16.62	15.99	16.29
7	16.23	16.56	16.32	16.71	16.24	16.74	16.28	16.68	16.29	16.63	15.56	16.21
8	16.67	16.63	16.31	16.70	16.44	16.90	16.35	16.72	16.32	16.66	15.65	15.95

S539--Continued.

High and low water levels, in feet below land-surface datum, 1946
(From recorder charts

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
9	16.41	16.70	16.32	16.70	16.67	16.98	16.39	16.73	16.31	16.68	15.71	15.99
10	16.52	16.73	16.44	16.73	16.74	17.01	16.38	16.75	16.29	16.62	15.74	15.94
11	16.49	16.73	16.43	16.78	16.71	17.03	16.32	16.72	16.32	16.69	15.70	15.95
12	16.44	16.74	16.35	16.78	16.51	16.99	16.34	16.75	16.39	16.72	15.68	15.98
13	16.40	16.72	16.16	16.66	16.35	16.81	16.23	16.78	16.38	16.75	15.64	15.96
14	16.31	16.71	16.15	16.56	16.33	16.70	16.17	16.57	16.40	16.74	15.65	15.99
15	16.27	16.65	16.26	16.65	16.43	16.81	16.14	16.53	16.22	16.55	15.72	16.07
16	16.25	16.66	16.13	16.62	16.42	16.80	16.16	16.58	16.24	16.60	15.81	16.11
17	16.30	16.70	16.16	16.64	16.45	16.83	16.18	16.56	16.29	16.65	15.82	16.15
18	16.27	16.74	16.26	16.65	16.52	16.88	16.18	16.58	16.29	16.62	15.89	16.20
19	16.19	16.95	16.31	16.68	16.55	16.92	16.29	16.67	16.47	16.91	15.98	16.27
20	16.00	16.53	16.35	16.76	16.52	16.92	16.30	16.70	16.52	16.76	16.01	16.30
21	16.03	16.47	16.50	16.78	16.40	16.79	16.32	16.65	16.58	16.79	16.03	16.31
22	16.14	16.52	16.51	16.81	16.30	16.61	16.30	16.65	16.47	16.71	16.06	16.36
23	16.20	16.56	16.49	16.81	16.09	16.44	16.31	16.68	16.34	16.62	16.16	16.43
24	16.26	16.62	16.55	16.88	16.07	16.50	16.34	16.70	16.29	16.59	16.14	16.44
25	16.38	16.65	16.62	16.89	16.16	16.58	16.34	16.70	16.26	16.60	16.10	16.37
26	16.33	16.65	16.51	16.86	16.28	16.69	16.34	16.69	16.16	16.52	16.13	16.42
27	16.31	16.52	16.34	16.76	16.36	16.74	16.39	16.78	16.14	16.51	16.20	16.48
28	16.32	16.66	16.39	16.70	16.45	16.78	16.28	16.71	15.90	16.49	16.14	16.46
29	16.38	16.66			16.13	16.78	16.22	16.63	15.82	16.30	16.06	16.44
30	16.31	16.66			16.29	16.64	16.18	16.62	15.72	16.17	16.01	16.41
31	16.33	16.69			16.29	16.71			15.60	16.09		

High and low water levels, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	15.86	16.30	15.84	16.22	15.43	15.81	15.20	15.64	.....	.....	15.64	16.00
2	15.79	16.14	15.93	16.27	15.40	15.75	15.24	15.70	15.54	15.88	15.55	16.00
3	15.86	16.21	16.00	16.31	15.52	15.82	15.04	15.28	15.61	15.97	15.14	15.72
4	15.96	16.23	16.04	16.42	15.47	15.78	15.03	15.37	15.64	16.04	15.28	15.76
5	15.95	16.22	16.03	16.28	15.40	15.68	14.98	15.35	15.61	15.96	15.24	15.86
6	15.93	16.21	16.02	16.28	15.40	15.69	15.06	15.41	15.32	15.96	15.03	15.70
7	15.93	16.17	16.05	16.32	15.38	15.70	14.60	15.37	15.17	15.75	15.07	15.65
8	16.04	16.26	16.04	16.34	15.35	15.70	14.95	15.45	15.26	15.80	15.06	15.68
9	16.10	16.33	16.00	16.34	15.30	15.72	15.10	15.59	15.25	15.90	15.07	15.73
10	16.12	16.35	15.97	16.30	15.20	15.66	15.15	15.64	15.38	15.90	15.24	15.87
11	16.16	16.39	15.95	16.34	15.26	15.70	15.19	15.70	15.08	15.79	15.31	15.92
12	16.19	16.44	15.98	16.38	15.27	15.70	15.13	15.77	15.33	15.83	15.38	15.96
13	16.17	16.44	15.88	16.27	15.26	15.72	15.13	15.73	15.35	15.82	15.53	15.96
14	16.20	16.48	15.78	16.24	15.33	15.80	15.00	15.66	15.26	15.86	15.58	16.04
15	16.23	16.51	15.70	16.15	15.37	15.81	14.98	15.58	15.14	15.67	15.58	16.05
16	16.27	16.55	15.72	16.18	15.50	15.90	14.84	15.41	15.06	15.58	15.62	16.18
17	16.33	16.57	15.79	16.23	15.56	15.96	14.98	15.50	15.28	15.64	15.64	16.18
18	16.34	16.58	15.83	16.24	15.55	15.99	14.98	15.54	15.36	15.72	15.78	16.16
19	16.29	16.54	15.79	16.22	15.38	15.88	15.08	15.60	15.38	15.77	15.83	16.30
20	16.19	16.50	15.82	16.23	15.26	15.81	15.33	15.74	15.32	15.80	15.79	16.27
21	16.11	16.36	15.96	16.33	15.35	15.84	15.35	15.81	15.25	15.77	15.82	16.24
22	16.05	16.39	16.14	16.40	15.33	15.81	15.40	15.82	15.25	15.80	15.84	16.26
23	15.98	16.34	16.04	16.44	15.27	15.78	15.38	15.87	15.26	15.83	15.73	16.29
24	16.09	16.40	15.88	16.42	15.21	15.71	15.29	15.95	15.20	15.64	15.69	16.15
25	15.99	16.39	15.90	16.24	15.15	15.74	15.30	15.80	15.19	15.74	15.80	16.23
26	15.83	16.30	15.67	16.25	15.03	15.62	15.37	15.89	15.28	15.82	15.84	16.26
27	15.80	16.19	15.42	16.04	15.02	15.58	15.40	15.94	15.51	15.91	15.84	16.30
28	15.80	16.20	15.42	15.88	15.17	15.66	15.56	16.00	15.66	16.02	15.85	16.42
29	15.77	16.19	15.48	15.92	15.23	15.74	15.56	16.00	15.68	16.05	16.03	16.43
30	15.68	16.13	15.54	15.93	15.19	15.64	.....	.....	15.63	16.03	16.18	16.60
31	15.76	16.16	15.52	15.91			.....	.....			16.09	16.51

Duval County

12 (*907, p. 14; 937, p. 13; 945, p. 13; 987, p. 28; 1017, p. 133; 1024, p. 45). Jacksonville Motor Transit Co. In Jacksonville, about 200 feet east of Riverside Avenue, about 75 feet south of McCoy Street.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
June 21	25.5	Sept. 3	26.8	Nov. 13	28.1
Aug. 14	24.7	Oct. 2	27.7	Dec. 18	28.7

18. C. J. Price. In Jacksonville, about 400 feet east of Riverside Avenue, about 50 feet north of Lomax Street. Used drilled domestic well, diameter 8 inches, depth unknown. Measuring point, top of 8-inch tee, 1.9 feet above land-surface datum and 6.38 feet above mean sea level.

Water level, in feet above land-surface datum, 1938, 1940-41, 1946

Nov. 26, 1938	43.2	May 20, 1941	37.4	Sept. 3, 1946	38.2
July 6, 1940	39.9	May 22, 1946	38.3	Oct. 3	38.8
Nov. 28	40.1	June 21	38.3	Nov. 13	38.6
Jan. 28, 1941	40.4	Aug. 14	37.0	Dec. 19	38.2

89. C. F. Tresca. At nursery, north of Atlantic Boulevard, in SE¼SE¼ sec. 18, T. 2 S., R. 28 E. Used drilled domestic well, diameter 5 inches, depth 762 feet, cased to 509 feet. Measuring point, top of 5-inch cross, 2.3 feet above land-surface datum and 40.71 feet above mean sea level.

Water level, in feet above land-surface datum, 1939-41, 1946

June 7, 1939	17.7	Mar. 12, 1941	15.9	Nov. 14, 1946	16.0
Aug. 22, 1940	16.3	Sept. 6, 1946	15.3	Dec. 18	14.8
Nov. 19	15.6	Oct. 2	16.1		

102 (*907, p. 14; 937, p. 13; 945, p. 13; 987, p. 28; 1017, p. 133; 1024, p. 45). V. A. Stevens. SW¼NW¼ sec. 24, T. 2 S., R. 27 E., about 240 feet north of Atlantic Boulevard, in rear of owner's residence.

Water level, in feet below land-surface datum, 1946

June 21	4.65	Sept. 2	3.29	Nov. 14	2.86
Aug. 15	3.54	Oct. 2	3.03	Dec. 18	3.44

109 (*907, p. 14; 937, p. 13; 945, p. 13; 987, p. 28; 1017, p. 133; 1024, p. 45). J. P. Young. At Floral Bluff, 3 miles northeast of Jacksonville. Measurements discontinued.

115 (*907, p. 15; 937, p. 13; 945, p. 13; 987, p. 28; 1017, p. 133; 1024, p. 45). City of Jacksonville. In Ortega, 5 miles southwest of Jacksonville.

Water levels, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 22	32.9	Aug. 14	33.2	Oct. 3	34.3	Dec. 19	33.3
June 21	25.9	Sept. 3	34.9	Nov. 13	34.7		

118 (*907, p. 15; 937, p. 13; 945, p. 13; 987, p. 28; 1017, p. 133; 1024, p. 45). City of Jacksonville. In Jacksonville, at west corner of intersection of Post and Dancy Streets, on southwest side of pump house.

Water level, in feet above land-surface datum, 1946

May 22	30.5	Aug. 16	30.9	Sept.30	31.7	Dec. 19	30.9
June 21	29.7	Sept. 3	31.8	Nov. 13	31.7		

122 (*907, p. 15; 937, p. 13; 945, p. 13; 987, p. 28; 1017, p. 133; 1024, p. 45). City of Jacksonville. In Jacksonville, about 20 feet north of 63d Street, between Russell and Eastland Streets.

Water level, in feet above land-surface datum, 1946

May 23	40.1	Aug. 14	41.6	Sept.30	42.7	Dec. 19	41.5
June 21	40.9	Sept. 4	43.0	Nov. 12	42.4		

123 (*907, p. 15; 937, p. 13; 945, p. 13; 987, p. 28; 1017, p. 133; 1024, p. 45). City of Jacksonville. At Woodstock Park, Jacksonville, on west side of Huron Street, about 150 feet north of Beaver Street, west of pump house.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 22	32.5	Aug. 16	32.9	Sept.30	33.7	Dec. 19	32.8
June 21	32.1	Sept. 3	33.7	Nov. 13	33.7		

129 (*907, p. 15; 937, p. 13; 945, p. 13; 987, p. 29; 1017, p. 133; 1024, p. 45). Jim Merril. In Ortega, 5.2 miles southwest of Jacksonville.

Water level, in feet above land-surface datum, 1946

May 22	38.2	Aug. 14	38.9	Oct. 3	40.3	Dec. 19	38.9
June 21	35.5	Sept. 3	39.2	Nov. 13	40.6		

131 (*907, p. 15; 937, p. 13; 945, p. 14; 987, p. 29; 1017, p. 133; 1024, p. 45). G. C. Cole. SW¼ sec. 10, T. 1 S., R. 26 E., on south side of owner's residence, and 7.0 miles north of Jacksonville.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
June 21	36.4	Sept. 4	39.8	Nov. 14	38.3
Aug. 16	38.5	Oct. 3	37.9	Dec. 19	37.6

145 (*907, p. 16; 937, p. 13; 945, p. 14; 987, p. 29; 1017, p. 133; 1024, p. 45). Duval County School Board. In rear of Oceanway School, 0.5 mile north of Broward, and 10 miles north of Jacksonville.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 23	20.0	Aug. 14	20.6	Oct. 1	20.7	Dec. 18	20.9
June 19	19.7	Sept. 4	21.5	Nov. 13	21.6		

147 (*907, p. 16; 937, p. 13; 945, p. 14; 987, p. 29; 1017, p. 134; 1024, p. 45). V. C. Johnson. SW¼SW¼ sec. 32, T. 1 N., R. 26 E.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
June 21	31.0	Sept. 4	31.4	Nov. 13	32.2
Aug. 13	32.1	Oct. 1	33.0	Dec. 18	32.7

149 (*907, p. 16; 937, p. 13; 945, p. 14; 987, p. 29; 1017, p. 134; 1024, p. 45). W. M. Bostwick. At north side of mouth of Drummond Creek, 1.2 miles southwest of Eastport, and 6 miles northeast of Jacksonville.

Water level, in feet above land-surface datum, 1946

June 21	25.4	Sept. 4	27.6	Nov. 13	27.2
Aug. 13	26.1	30	28.1	Dec. 18	26.8

154 (*907, p. 16; 937, p. 14; 945, p. 14; 987, p. 29; 1017, p. 134; 1024, p. 45). J. M. Shield. SW¼ sec. 22, T. 3 S., R. 27 E., between Florida East Coast Railway and U. S. Highway 1, 1.2 miles north of Sunbeam.

Water level, in feet above land-surface datum, 1946

June 20	25.6	Sept. 3	27.8	Nov. 14	27.8
Aug. 15	27.0	Oct. 2	27.4	Dec. 18	27.3

160 (*907, p. 16; 937, p. 14; 945, p. 14; 987, p. 29; 1017, p. 134; 1024, p. 45). City of Neptune Beach. At Neptune Beach, about 400 feet from ocean, on southeast corner of intersection of First Street and Florida Avenue.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 22	37.9	Aug. 15	37.6	Oct. 2	37.7	Dec. 18	38.7
June 20	36.4	Sept. 2	38.5	Nov. 14	38.7		

164 (*907, p. 16; 937, p. 14; 945, p. 14; 987, p. 29; 1017, p. 134; 1024, p. 64). Ribault Club. On Fort George Island, in pump house at Ribault Club.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
June 21	36.3	Sept. 4	36.7	Nov. 12	37.6
Aug. 13	36.2	30	39.2	Dec. 18	37.5

Escambia County

45 (*907, p. 22; 937, p. 17; 945, p. 15; 987, p. 30; 1017, p. 134; 1024, p. 46). Geol. Survey, U. S. Dept. of Interior. About 1,150 feet southwest of Louisville & Nashville Railroad, about 1,600 feet north of St. Louis-San Francisco Railway and 0.5 mile south of Cantonment. Water levels affected by heavy pumping from other wells. Record begins in 1940.

High and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	90.82	90.99	91.22	91.27	91.76	91.88	90.51	90.66	87.39	87.96
2	.....	.....	90.98	90.99	91.21	91.40	91.75	91.84	90.57	90.67	87.17	87.39
3	91.07	91.14	90.64	91.01	91.37	91.40	91.60	91.70	90.49	90.57	86.88	87.17
4	90.82	91.14	90.49	90.79	91.06	91.37	91.60	91.66	90.55	90.68	87.05	87.27
5	90.20	90.84	90.29	90.61	90.71	91.04	91.65	91.78	90.68	90.83	87.27	87.41
6	90.19	90.29	90.37	90.60	90.73	90.97	91.03	91.71	90.75	90.87	87.31	88.87
7	86.98	90.28	90.39	90.83	90.74	90.99	90.60	91.02	90.69	90.79	88.87	89.46
8	85.61	86.95	90.44	90.75	90.74	90.95	90.42	90.61	90.79	90.80	89.46	90.00
9	84.02	85.57	90.65	90.76	90.72	91.07	90.38	90.76	90.80	90.93	90.00	90.28
10	83.40	84.02	90.62	90.96	90.30	90.94	90.37	90.79	90.75	90.86	89.92	90.52
11	82.96	83.55	.....	.....	90.49	90.76	90.19	90.74	90.56	90.74	88.42	89.87
12	82.92	85.02	.....	.....	90.49	90.77	90.54	90.72	90.58	90.67	88.05	88.42
13	85.02	86.82	90.65	91.09	90.11	90.52	90.46	90.86	90.58	90.67	87.62	88.04
14	86.77	87.27	90.56	90.95	90.03	90.27	90.40	90.74	90.63	90.72	87.63	87.73
15	87.25	87.49	90.60	91.14	90.04	90.34	90.39	90.64	89.62	90.63	87.50	87.64
16	87.42	87.69	91.09	91.24	89.70	91.04	90.00	90.53	89.62	90.16	87.47	88.52
17	87.69	88.11	90.96	91.18	89.30	89.70	89.62	90.49	90.16	90.29	88.53	89.46
18	88.11	88.20	90.32	90.95	89.58	90.08	89.67	90.12	90.27	90.44	89.42	89.87
19	87.94	88.12	90.10	90.83	90.05	90.39	89.57	90.09	90.44	90.53	90.07	90.16
20	87.77	89.18	90.84	91.17	90.31	90.78	89.75	90.15	90.48	90.57	90.16	90.28
21	89.12	89.61	91.08	91.18	90.79	91.00	89.92	90.52	90.56	90.68	90.28	90.45
22	89.43	90.08	90.98	91.10	90.89	91.05	90.53	90.79	.....	.....	90.33	90.54
23	90.06	90.38	90.87	90.98	90.94	91.04	90.19	90.80	.....	.....	90.52	90.57
24	90.39	90.60	90.90	91.07	91.06	91.16	89.22	90.27	.....	.....	90.51	90.55
25	90.46	90.60	90.99	91.09	91.05	91.20	89.53	89.84	.....	.....	90.49	90.58
26	90.34	90.52	90.88	90.99	91.03	91.17	89.85	90.23	.....	.....	90.52	90.65
27	90.34	90.62	90.88	91.07	90.94	91.14	90.24	90.54	.....	.....	.....	.....
28	90.53	90.62	91.07	91.26	90.88	91.04	90.48	90.59	.....	.....	.....	.....
29	90.46	90.54			90.99	91.09	90.11	90.68	90.16	90.68	.....	.....
30	90.39	90.45			91.03	91.43	90.56	90.67	88.77	90.40	.....	.....
31	90.41	90.82			91.44	91.76			87.97	88.76		

45--Continued.

High and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	89.70	89.80	89.27	89.38	88.52	88.60	87.92	88.03	88.15	88.43
2	.....	.....	89.68	89.77	84.77	89.38	88.56	88.56	87.85	87.93	87.27	88.50
3	89.06	90.45	89.67	89.73	84.32	87.33	88.16	88.55	87.85	88.04	86.70	88.21
4	86.22	89.05	89.61	89.69	87.34	88.38	87.98	88.19	88.04	88.24	87.59	88.36
5	85.84	86.93	89.13	89.70	88.39	88.76	88.19	88.36	87.85	88.06	87.18	87.58
6	86.56	87.26	89.09	89.43	88.76	88.89	88.28	88.38	.....	.....	87.16	87.24
7	87.27	87.52	89.43	89.56	88.89	89.02	87.84	88.26	87.95	88.10	87.18	87.27
8	87.42	87.51	89.49	89.53	89.00	89.04	86.14	87.82	88.00	88.17	87.19	87.23
9	87.31	87.42	89.52	89.60	89.03	89.13	85.99	87.48	88.04	88.17	87.15	87.26
10	87.31	87.33	89.54	89.66	88.72	89.13	87.49	87.93	88.04	88.14	85.70	87.15
11	87.23	87.35	89.32	89.54	87.08	88.71	87.93	88.02	88.06	88.26	84.87	85.70
12	87.13	87.27	89.52	89.57	86.24	87.08	88.02	88.37	88.24	88.34	84.52	84.87
13	87.14	87.26	89.53	89.66	85.62	86.23	88.37	88.47	87.87	88.44	84.33	84.53
14	87.23	87.29	87.69	89.66	85.27	85.62	86.00	88.41	88.18	88.26	84.18	84.33
15	87.27	88.69	87.02	87.68	85.07	85.29	84.29	85.99	88.26	88.32	84.08	84.18
16	88.70	89.36	87.27	87.55	85.05	86.52	83.79	84.28	88.27	88.36	84.03	85.69
17	89.24	89.49	87.12	87.29	86.49	87.42	83.61	84.34	88.27	88.39	85.70	86.14
18	89.49	89.65	86.80	87.13	87.43	88.10	83.95	84.80	88.39	88.49	86.14	86.45
19	89.41	89.61	86.55	86.79	88.10	88.25	84.80	85.00	88.43	88.49	86.35	86.49
20	89.46	89.79	86.42	86.58	88.24	88.32	85.00	86.50	88.37	88.48	86.18	86.35
21	89.36	89.75	86.46	86.55	88.32	88.46	86.50	87.10	88.31	88.39	86.35	86.70
22	89.69	89.79	86.47	88.22	88.46	88.57	87.16	87.53	88.31	88.58	86.70	86.86
23	89.74	89.92	88.22	88.73	88.57	88.76	87.53	87.63	88.53	88.65	85.19	86.85
24	89.92	90.08	88.73	88.87	88.56	88.83	87.57	87.66	88.25	88.53	85.97	86.19
25	89.84	90.04	88.80	88.87	88.21	88.64	87.48	87.57	88.25	88.31	84.03	84.05
26	89.77	89.86	88.82	88.94	88.20	88.42	87.52	87.76	88.26	88.34	83.48	84.34
27	89.82	89.89	88.92	89.04	88.35	88.43	87.76	87.94	88.32	88.45	84.26	84.36
28	89.88	89.97	88.97	89.13	88.39	88.45	87.94	88.03	87.77	88.45	84.19	84.26
29	89.51	89.95	88.94	89.14	88.41	88.46	87.67	88.02	88.15	88.35	84.04	84.19
30	89.20	89.48	89.14	89.22	88.45	88.55	87.94	88.09	88.26	88.35	84.19	84.26
31	89.44	89.71	89.16	89.27			87.94	88.11			84.03	84.26

46 (*907, p. 22; 937, p. 18; 945, p. 15; 987, p. 31; 1017, p. 135; 1024, p. 47). Geol. Survey, U. S. Dept. of Interior. 0.4 mile east of Ensley, 43.5 feet east of center line of Louisville & Nashville Railroad, 196 feet north of center line of graded crossroad.

High and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	69.82	69.97	70.06	70.09	69.91	69.97	69.33	69.40	67.83	67.88	66.63	66.90
2	70.00	70.07	70.10	70.18	69.94	70.06	69.22	69.31	67.76	67.84	66.69	66.77
3	70.05	70.09	70.15	70.19	70.05	70.08	69.07	69.21	67.67	67.76	66.77	66.79
4	69.99	70.09	70.08	70.16	70.00	70.06	69.00	69.07	67.69	67.74	66.77	66.79
5	69.63	69.98	69.98	70.07	69.98	70.02	68.96	69.02	67.74	67.81	66.76	66.79
6	69.64	69.82	69.88	69.99	69.92	69.99	68.82	68.96	67.80	67.84	66.71	66.77
7	69.82	69.92	69.98	70.04	69.90	69.99	68.72	68.82	67.66	67.69	66.60	66.71
8	69.90	69.92	69.93	69.99	69.90	69.98	68.66	68.72	67.69	67.77	66.57	66.61
9	69.90	69.98	69.74	69.93	69.98	70.06	68.62	68.68	67.77	67.83	66.55	66.57
10	69.98	70.03	69.66	69.88	70.03	70.07	68.57	68.63	67.76	67.81	66.48	66.55
11	69.92	69.99	69.89	70.02	70.05	70.12	68.56	68.65	67.64	67.77	66.44	66.51
12	69.95	70.10	70.00	70.04	69.96	70.05	68.62	68.65	.....	.....	66.29	66.44
13	70.10	70.16	69.78	69.97	69.66	69.96	68.55	68.65	.....	.....	66.25	66.29
14	69.94	70.15	69.81	70.08	69.65	69.75	68.47	68.56	.....	.....	66.25	66.29
15	69.80	69.94	70.09	70.14	69.70	69.78	68.32	68.47	67.58	67.63	66.25	66.29
16	69.82	70.05	70.05	70.11	69.56	69.69	68.18	68.32	67.53	67.59	66.21	66.27
17	70.05	70.14	69.98	70.05	69.69	69.76	68.22	68.31	67.43	67.54	66.11	66.22
18	70.07	70.14	69.82	69.99	69.76	69.79	68.28	68.35	67.42	67.46	66.07	66.13
19	69.92	70.07	69.69	69.86	69.74	69.82	68.23	68.31	67.44	67.50	66.06	66.10
20	69.74	69.92	69.87	70.03	69.77	69.82	68.19	68.25	67.37	67.45	66.02	66.07
21	69.77	70.04	70.02	70.06	69.81	69.89	68.18	68.23	67.42	67.48	66.01	66.02
22	70.04	70.15	69.91	70.02	69.77	69.83	68.13	68.21	67.45	67.48	66.00	66.05
23	70.06	70.15	69.71	69.91	69.76	69.79	67.97	68.12	67.41	67.45	65.99	66.05

46--Continued.

High and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
24	70.02	70.07	69.72	69.79	69.72	69.77	67.82	67.97	67.33	67.40	65.92	65.98
25	69.94	70.07	69.82	69.87	69.68	69.72	67.66	67.82	67.22	67.33	65.91	65.94
26	69.91	69.94	69.73	69.81	69.56	69.66	67.83	67.85	67.14	67.22	65.88	65.94
27	69.96	70.15	69.66	69.75	69.35	69.57	67.86	67.94	67.10	67.15	65.84	65.91
28	70.14	70.20	69.77	69.92	69.29	69.33	67.91	67.96	67.07	67.14	65.74	65.85
29	70.08	70.22			69.27	69.30	67.89	67.96	67.01	67.07	65.66	65.75
30	69.95	70.06			69.17	69.26	67.87	67.91	66.97	67.05	65.61	65.99
31	69.91	70.05			69.20	69.35			66.90	66.97		

High and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	65.57	65.63	64.46	64.50	.....	.....	.....	.....	61.29	61.37	61.79	61.86
2	65.49	65.57	64.37	64.46	.....	.....	61.87	61.89	61.22	61.28	61.87	62.07
3	65.50	65.54	64.31	64.36	.....	.....	61.83	61.87	61.25	61.34	62.07	62.12
4	65.50	65.55	64.23	64.30	62.84	62.87	61.79	61.83	61.34	61.44	62.12	62.17
5	65.51	65.54	64.13	64.22	62.87	62.92	61.76	61.79	61.42	61.45	62.07	62.13
6	65.44	65.49	63.93	64.13	62.87	62.92	61.69	61.76	.....	.....	62.03	62.07
7	65.45	65.49	63.89	63.94	62.82	62.89	61.50	61.69	61.32	61.44	62.05	62.10
8	65.42	65.49	63.85	63.90	62.82	62.85	61.34	61.50	61.37	61.42	62.10	62.14
9	65.36	65.42	63.77	63.87	62.80	62.84	61.34	61.39	61.41	61.45	62.12	62.15
10	65.33	65.36	63.73	63.79	62.75	62.79	61.38	61.45	61.39	61.43	62.05	62.13
11	65.27	65.33	65.63	63.72	62.70	62.77	61.42	61.45	61.41	61.54	61.90	62.10
12	65.20	65.27	63.62	63.69	62.68	62.72	61.42	61.65	61.54	61.64	61.83	61.90
13	65.19	65.24	63.60	63.65	62.67	62.71	61.65	61.67	61.61	61.65	61.87	61.99
14	65.19	65.23	63.58	63.62	62.68	62.71	61.63	61.66	61.60	61.64	61.99	62.06
15	65.20	65.26	63.58	63.61	62.61	62.69	61.63	61.66	61.60	61.64	62.07	62.10
16	65.16	65.22	63.53	63.58	62.62	62.67	61.51	61.63	61.64	61.70	62.10	62.12
17	65.11	65.16	63.42	63.53	62.67	62.72	61.36	61.58	61.69	61.74	62.12	62.22
18	65.05	65.11	63.32	63.42	62.72	62.75	61.35	61.37	61.73	61.77	62.22	62.32
19	65.04	65.07	63.27	63.32	62.65	62.72	61.35	61.44	61.75	61.76	62.26	62.34
20	64.97	65.06	.....	.....	62.57	62.65	61.44	61.47	61.62	61.76	62,12	62.26
21	64.86	64.97	63.21	63.22	62.52	62.58	61.43	61.49	61.51	61.66	62.25	62.44
22	64.80	64.86	63.20	63.22	62.49	62.53	61.46	61.51	61.66	61.80	62.44	62.55
23	64.80	64.86	63.17	63.21	62.42	62.55	61.44	61.46	61.77	61.82	62.52	62.55
24	64.85	64.92	63.09	63.18	62.47	62.53	61.30	61.44	61.66	61.77	62.48	62.52
25	64.81	64.89	63.07	63.11	62.32	62.47	61.21	61.30	61.66	61.68	62.51	62.57
26	64.70	64.80	63.06	63.08	62.18	62.32	61.32	61.44	61.67	61.70	62.56	62.59
27	64.70	64.74	62.97	63.06	62.13	62.18	61.32	61.48	61.69	61.77	62.53	62.56
28	64.71	64.75	.....	.....	62.12	62.13	61.48	61.54	61.77	61.82	62.47	62.53
29	64.47	64.72	.....	.....	.....	.....	61.48	61.52	61.80	61.82	62.47	62.52
30	64.37	64.46	.....	.....	.....	.....	61.45	61.48	61.79	61.82	62.53	62.56
31	64.46	64.50	.....	.....			61.37	61.45			62.60	62.62

60 (*1024, p. 48). Geol. Survey, U. S. Dept. of Interior. In Pensacola, at foot of H Street.

High and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	12.90	13.23	.....	.....	.....	.....	11.05	11.08	10.71	10.77	10.58	10.72
2	13.23	13.49	.....	.....	.....	.....	11.08	11.22	10.71	10.76	10.43	10.58
3	13.29	13.37	.....	.....	.....	.....	11.22	11.28	10.77	10.80	10.42	10.44
4	13.27	13.41	.....	.....	.....	.....	11.28	11.29	10.80	10.93	10.43	10.62
5	12.55	13.27	.....	.....	.....	.....	11.30	11.40	10.91	11.07	10.62	10.78
6	12.04	12.55	a12.22	.....	.....	.....	11.35	11.45	11.05	11.14	10.78	10.84
7	11.95	12.25	12.14	12.24	11.56	11.66	11.10	11.35	11.10	11.20	10.84	10.92
8	12.25	12.57	.....	.....	11.67	11.74	11.08	11.11	11.20	11.39	10.89	10.93
9	12.57	12.80	.....	.....	11.74	11.74	.....	.....	11.40	11.58	10.79	10.89
10	12.80	12.98	.....	.....	11.60	11.74	.....	.....	11.58	11.70	10.60	10.78
11	12.82	12.87	.....	.....	11.60	11.70	11.39	11.44	11.65	11.71	10.64	11.01

a Observed water level.

60--Continued.

High and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
12	12.65	12.85	.....	.....	11.70	11.74	11.44	11.57	11.45	11.65	11.01	11.15
13	12.56	12.67	all.57	.....	.....	.....	11.56	11.62	11.30	11.45	11.13	11.22
14	12.55	12.65	.....	.....	11.44	11.74	11.18	11.56	11.24	11.30	11.22	11.33
15	12.18	12.60	.....	.....	11.29	11.43	10.90	11.18	11.22	11.28	11.34	11.37
16	12.16	12.48	.....	.....	11.00	11.28	10.87	10.91	11.17	11.24	11.38	11.43
17	.....	.....	.....	.....	10.81	10.98	10.85	10.94	11.17	11.21	11.40	11.50
18	.....	.....	.....	.....	10.76	10.87	10.88	11.05	11.12	11.21	11.50	11.61
19	.....	.....	.....	.....	10.88	11.31	11.05	11.19	11.05	11.13	11.62	11.80
20	.....	.....	all.45	.....	11.30	11.60	11.18	11.25	10.95	11.05	11.80	11.86
21	.....	.....	.....	.....	11.60	11.72	10.95	11.20	10.92	10.96	11.84	11.86
22	.....	.....	.....	.....	11.68	11.75	10.88	10.95	10.92	10.95	11.84	11.90
23	.....	.....	.....	.....	11.50	11.68	10.89	10.97	10.89	10.93	11.83	11.82
24	12.69	12.85	.....	.....	11.24	11.50	11.01	11.04	10.83	10.87	11.71	11.82
25	12.68	12.84	.....	.....	11.16	11.24	11.02	11.05	10.76	10.83	11.68	11.74
26	12.52	12.68	.....	.....	11.20	11.28	11.04	11.08	10.65	10.76	11.74	11.84
27	12.45	12.55	all.53	.....	11.17	11.31	11.05	11.10	10.55	10.65	11.71	11.84
28	12.36	12.46	.....	.....	11.14	11.18	10.98	11.05	10.54	10.60	11.62	11.78
29	12.35	12.43			11.14	11.19	10.85	10.98	10.63	10.69	11.34	11.64
30	12.39	12.62			11.16	11.22	10.77	10.85	10.65	10.70	10.89	11.34
31	.....	.....			11.09	11.15			10.69	10.73		

a Observed water level.

High and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	10.62	10.89	10.78	10.82	10.50	10.71	10.24	10.27	.....	.....	9.89	9.93
2	10.69	10.91	10.79	10.82	10.29	10.50	10.27	10.39	.....	.....	9.87	9.89
3	10.95	11.07	10.74	10.79	10.30	10.57	10.35	10.42	.....	.....	9.85	9.87
4	10.78	11.08	10.52	10.74	10.57	10.83	10.38	10.45	.....	.....	9.83	9.85
5	10.79	10.85	10.30	10.52	10.83	10.94	10.39	10.46	.....	.....	9.81	9.83
6	10.85	10.96	10.35	10.55	10.90	10.97	10.29	10.39	all.00	.....	9.79	9.81
7	10.93	10.96	10.55	10.75	10.97	10.99	10.22	10.30	10.98	11.00	9.79	9.94
8	10.85	10.95	10.72	10.85	10.60	10.98	10.26	10.46	10.98	11.01	9.78	9.96
9	10.97	11.16	10.78	10.86	10.20	10.60	10.46	10.60	10.95	11.02	9.69	9.77
10	11.16	11.37	10.81	10.89	10.25	10.42	10.60	10.70	10.77	10.97	9.70	9.87
11	11.33	11.44	10.63	10.84	10.42	10.55	10.70	10.72	10.73	10.78	9.87	9.98
12	11.28	11.46	10.51	10.65	10.55	10.61	10.71	10.74	10.76	10.86	9.96	10.00
13	11.11	11.33	10.58	10.67	10.61	10.64	10.62	10.74	10.82	10.86	9.99	10.15
14	10.89	11.15	10.67	10.81	10.63	10.67	10.50	10.61	10.82	10.85	10.15	10.20
15	10.70	10.92	10.81	10.94	10.48	10.66	10.52	10.75	10.83	10.85	10.17	10.20
16	10.75	10.83	10.94	11.00	10.28	10.47	.....	.....	10.77	10.84	10.16	10.17
17	10.93	11.09	10.92	10.99	10.26	10.43	10.84	10.88	10.69	10.77	10.17	10.20
18	11.10	11.15	10.76	10.92	10.42	10.70	10.80	10.88	10.65	10.69	10.20	10.20
19	11.10	11.13	10.58	10.76	10.70	10.84	10.72	10.80	10.63	10.65	10.19	10.20
20	11.10	11.14	10.67	10.94	10.76	10.88	10.68	10.72	10.58	10.63	10.10	10.19
21	10.73	11.10	10.94	11.06	10.86	10.90	10.68	10.69	10.43	10.58	10.10	10.33
22	10.70	10.77	10.94	11.06	10.52	10.90	10.69	10.72	10.38	10.43	10.33	10.51
23	10.77	11.15	10.98	11.10	10.18	10.51	10.72	10.80	10.33	10.38	10.51	10.60
24	11.15	11.32	11.07	11.12	10.23	10.33	10.80	10.84	10.21	10.33	10.47	10.59
25	11.10	11.32	10.86	11.09	10.33	10.43	10.84	10.85	10.14	10.21	10.18	10.47
26	11.10	11.21	10.72	10.86	10.43	10.48	10.82	10.84	10.12	10.14	9.75	10.18
27	10.97	11.21	10.79	10.87	10.48	10.53	10.79	10.82	10.09	10.11	9.72	9.93
28	10.59	11.03	10.84	10.87	10.52	10.55	10.78	10.79	10.07	10.09	9.91	10.15
29	10.66	10.86	10.78	10.85	10.40	10.55	10.79	10.85	9.99	10.07	10.11	10.17
30	10.73	10.89	10.76	10.78	10.22	10.40	.....	.....	9.93	9.99	10.17	10.30
31	10.74	10.78	10.71	10.75			.....	.....			10.29	10.37

a Observed water level.

60-A (*1024, p. 50). Geol. Survey, U. S. Dept. of Interior. In Pensacola, at foot of H Street.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	5.47	Apr. 10	5.02	July 10	5.30	Oct. 8	4.80
9	4.68	17	5.08	17	5.35	16	5.18
16	5.07	24	5.20	24	5.03	23	5.32
23	5.33	May 1	5.09	31	4.09	30	5.36
30	5.42	8	5.45	Aug. 7	4.50	Nov. 6	5.51
Feb. 6	5.38	15	4.26	14	4.83	13	5.55
13	5.66	22	4.26	21	5.08	20	5.46
20	5.66	29	4.74	28	5.25	27	4.95
27	5.53	June 5	4.84	Sept. 4	5.40	Dec. 4	5.32
Mar. 6	5.52	12	4.91	11	4.79	11	5.18
14	4.93	19	5.24	18	4.83	18	5.57
20	5.13	26	5.41	25	4.27	24	5.65
27	3.89	July 3	4.80	Oct. 1	4.57	31	5.78
Apr. 3	4.60						

62 (*945, p. 16; 987, p. 32; 1017, p. 137; 1024, p. 51). Geol. Survey, U. S. Dept. of Interior. In Petterson Addition, Pensacola, on south side of Corry Field switching lead of St. Louis-San Francisco Railway, about 1,000 feet east of railroad bridge across Bayou Chico, on west side of Twelfth Avenue extended. Automatic water-stage recorder maintained on well since June 4, 1940.

High and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	14.96	15.02	14.77	14.80	14.63	14.71	13.84	13.89	13.96	14.06	13.19	13.35
2	14.63	15.10	14.77	14.80	14.70	14.72	13.84	13.85	14.00	14.05	13.00	13.19
3	15.10	15.15	14.60	14.77	14.62	14.70	13.84	13.85	14.05	14.12	12.98	13.12
4	15.15	15.18	14.48	14.59	14.56	14.62	13.83	13.85	14.13	14.14	13.12	13.35
5	15.05	15.18	14.49	14.68	14.57	14.62	13.83	13.84	14.13	14.15	13.35	13.45
6	14.85	15.05	14.62	14.68	.....	.....	13.82	13.85	14.13	14.14	13.45	13.60
7	14.75	14.85	14.51	14.62	14.62	14.70	13.74	13.82	14.14	14.19	13.60	13.66
8	14.74	14.75	14.50	14.51	14.70	14.75	13.70	13.74	13.93	14.32	13.49	13.66
9	14.75	14.83	14.43	14.50	14.73	14.75	13.70	13.75	14.32	14.44	13.18	13.49
10	14.84	14.95	14.33	14.43	14.67	14.73	13.75	13.78	14.44	14.47	13.06	13.17
11	14.95	14.99	14.33	14.34	14.67	14.69	13.78	13.79	14.23	14.46	13.17	13.45
12	14.96	14.99	14.34	14.39	14.69	14.75	13.79	13.84	14.01	14.23	13.45	13.64
13	14.90	14.99	14.37	14.40	14.75	14.79	13.83	13.84	13.92	14.01	13.64	13.77
14	14.87	14.90	14.37	14.42	.....	.....	13.70	13.83	13.97	14.06	13.77	13.93
15	14.82	14.87	14.42	14.49	14.66	14.68	13.61	13.69	14.00	14.06	13.87	13.94
16	14.81	14.82	14.47	14.51	14.30	14.66	13.60	13.62	13.99	14.06	13.79	13.87
17	14.81	14.87	14.36	14.41	14.07	14.30	13.63	13.67	13.96	14.01	13.79	13.85
18	14.87	14.94	14.27	14.35	13.97	14.07	13.67	13.72	13.84	13.99	13.85	13.99
19	14.87	14.94	14.27	14.30	14.00	14.18	13.72	13.75	13.66	13.84	13.99	14.15
20	14.73	14.87	14.32	14.40	14.09	14.34	13.75	13.76	13.50	13.57	14.14	14.17
21	14.60	14.73	14.40	14.50	14.35	14.45	13.69	13.75	13.52	13.54	14.16	14.20
22	14.62	14.74	14.50	14.59	14.45	14.47	13.66	13.69	13.55	13.59	14.20	14.24
23	14.74	14.78	14.59	14.64	14.43	14.47	13.66	13.69	13.48	13.58	14.05	14.21
24	14.78	14.84	14.55	14.61	14.31	14.43	13.71	13.72	13.43	13.48	13.95	14.05
25	14.85	14.87	14.54	14.55	14.16	14.30	13.72	13.74	13.24	13.43	13.94	14.05
26	14.85	14.87	14.55	14.60	14.16	14.25	13.74	13.77	12.93	13.24	14.05	14.20
27	14.83	14.85	14.57	14.60	14.18	14.26	13.75	13.82	12.80	12.93	14.15	14.20
28	14.77	14.83	14.57	14.63	14.15	14.18	13.70	13.75	12.62	13.46	14.04	14.17
29	14.74	14.77			14.13	14.15	13.67	13.70	13.22	13.32	13.64	14.04
30	14.74	14.77			14.02	14.13	13.67	13.69	13.27	13.35	13.32	14.32
31	14.76	14.77			13.89	14.02			13.32	13.36		

62--Continued.

High and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	13.30	13.32	13.25	13.34	12.68	12.78	.....	.....	12.90	12.95	12.52	12.56
2	13.30	13.35	13.14	13.25	12.50	12.68	12.38	12.43	12.92	13.13	12.52	12.61
3	13.35	13.40	12.98	13.14	12.51	12.78	12.41	12.44	13.04	13.13	12.61	12.73
4	.....	.....	12.70	12.98	12.78	13.05	12.43	12.47	12.98	13.04	12.73	12.79
5	.....	.....	12.57	12.70	13.05	13.19	12.43	12.47	13.00	13.28	12.79	12.85
6	.....	.....	12.58	12.78	13.17	13.22	12.40	12.42	13.25	13.29	12.83	12.87
7	.....	.....	12.78	12.93	13.20	13.23	12.39	12.40	13.22	13.25	12.82	12.84
8	.....	.....	12.93	13.01	12.91	13.20	12.39	12.45	13.22	13.26	12.64	12.82
9	13.31	13.50	12.99	13.02	12.75	12.91	12.45	12.53	13.21	13.28	12.54	12.64
10	13.50	13.69	12.99	13.02	12.75	12.84	12.53	12.64	13.02	13.21	12.53	12.70
11	13.70	13.80	12.85	12.98	12.85	12.95	12.64	12.66	12.95	13.01	12.70	12.80
12	13.75	13.80	12.74	12.85	12.95	13.00	12.65	12.66	12.96	13.01	12.79	12.83
13	13.65	13.75	12.75	12.82	12.99	13.00	12.55	12.65	13.01	13.07	12.82	12.93
14	13.49	13.65	12.82	12.96	12.97	13.00	12.45	12.55	13.06	13.13	12.93	12.97
15	13.32	13.48	12.96	13.12	12.79	12.96	12.44	12.62	13.13	13.20	12.81	12.95
16	13.32	13.39	13.12	13.18	12.64	12.79	.....	.....	13.14	13.20	12.79	12.83
17	13.39	13.55	13.07	13.18	12.61	12.69	12.75	12.79	13.01	13.14	12.83	13.21
18	13.55	13.60	12.88	13.07	12.69	12.88	12.74	12.79	12.99	13.01	13.20	13.38
19	13.60	13.66	12.76	12.88	12.88	13.08	12.70	12.74	13.01	13.08	13.19	13.37
20	13.60	13.69	12.82	13.09	13.04	13.08	12.68	12.71	13.05	13.08	12.98	13.19
21	13.27	13.60	13.09	13.18	13.02	13.08	12.70	12.73	12.91	13.04	12.97	12.99
22	13.24	13.28	13.12	13.18	12.73	13.01	12.73	12.81	12.87	12.90	12.98	12.99
23	13.28	13.60	13.14	13.22	12.55	12.73	12.81	12.94	12.80	12.87	12.99	13.03
24	13.60	13.73	13.20	13.23	12.55	12.63	12.94	13.02	12.62	12.80	12.97	13.01
25	13.62	13.73	12.99	13.19	12.64	12.67	13.00	13.02	12.58	12.62	12.82	12.97
26	13.61	13.64	12.88	12.99	12.65	12.67	12.92	13.00	12.58	12.69	12.59	12.82
27	13.54	13.63	12.92	13.00	12.63	12.65	12.81	12.92	12.69	12.77	12.59	12.65
28	13.43	13.54	12.98	13.00	12.62	12.63	12.80	12.83	12.77	12.79	12.65	12.78
29	13.41	13.48	12.93	12.99	12.44	12.62	12.83	12.92	12.62	12.77	12.78	12.81
30	13.38	13.48	12.92	12.92	.....	.....	12.90	12.92	12.56	12.62	12.81	12.82
31	13.33	13.38	12.78	12.92			12.90	12.92			12.83	12.91

62-A (*945, p. 17; 987, p. 33; 1017, p. 138; 1024, p. 53). Geol. Survey, U. S. Dept. of Interior. In Petterson Addition, Pensacola, on south side of Corry Field switching lead of St. Louis-San Francisco Railway, about 1,000 feet east of railroad bridge across Bayou Chico, on west side of Twelfth Avenue extended.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	12.13	Apr. 10	11.39	July 10	11.23	Oct. 8	10.56
9	12.10	17	10.59	17	11.24	16	10.43
16	11.86	24	11.39	24	11.24	23	10.58
23	11.77	May 1	11.52	31	10.14	30	10.74
30	11.90	8	11.71	Aug. 7	9.99	Nov. 6	10.92
Feb. 6	11.88	15	11.49	14	10.12	13	11.00
13	12.07	22	10.52	21	10.45	20	11.16
20	12.01	29	10.63	28	10.51	27	11.21
27	12.30	June 5	10.63	Sept. 4	10.63	Dec. 4	11.03
Mar. 6	12.19	12	10.91	11	10.74	11	11.27
14	12.30	19	10.98	18	10.72	18	11.29
20	12.05	26	11.44	25	10.56	24	11.38
27	11.91	July 3	10.88	Oct. 1	10.44	31	11.56
Apr. 3	11.52						

Gadsden County

6. State of Florida. One mile south of Quincy at Florida Experimental Station, 2 feet west of pumphouse, in NW¼NW¼ sec. 18, T. 2 N., R. 3 W. Used drilled public-supply well, diameter 7 to 4⅝ inches, depth 422 feet. Measuring point, top of 7-inch well flange, 252 feet above mean sea level and 0.5 foot above land-surface datum. Water levels, in feet below land-surface datum, 1946: Sept. 27, 136.8; Oct. 25, 136.5; Nov. 21, 135.7.

Gulf County

30. Apalachicola Northern Railroad. In Port St. Joe, at footings of old water tank north of depot, in NE¼NW¼ sec. 1, T. 7 S., R. 11 W. Unused drilled railroad well, diameter 6 inches, depth 563 feet. Measuring point, top of 6-inch casing, 2.0 feet above land-surface datum. Water levels, in feet below land-surface datum, 1946: Sept. 24, 17.1; Oct. 21, 17.0; Nov. 18, 17.2.

Hendry County

G138 (*987, p. 34; 1017, pp. 138-9; 1024, p. 53). Geol. Survey, U. S. Dept. of Interior. SW¼SW¼ sec. 12 (?), T. 48 S., R. 33 E. No measurements made in 1946.

G299 (*987, p. 35; 1017, p. 139; 1024, p. 53). Geol. Survey, U. S. Dept. of Interior. SW¼SW¼ sec. 22, T. 44 S., R. 32 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 17	2.85	Apr. 3	3.98	Sept.12	0.84	Nov. 22	2.26
Feb. 19	3.18	31	3.14	Oct. 16	1.76	Dec. 27	2.12

Hillsborough County

13. City of St. Petersburg. About 5 miles northeast of Citrus Park, in SE¼SE¼ sec. 21, T. 21 S., R. 18 E. Unused drilled public-supply well, depth 300 feet. Measuring point, top of 12-inch casing, 1.0 foot above land-surface datum and 57.85 feet above mean low tide. Record begins in 1930. Automatic water-stage recorder installed on well May 17, 1944.

Water level, in feet below land-surface datum, 1930-35, 1937-40

Date	Water level	Date	Water level	Date	Water level
Oct. 23, 1930	48.77	Mar. 21, 1932	47.35	Aug. 28, 1933	50.00
Jan. 28, 1931	49.35	Apr. 20	46.75	Oct. 22	49.50
Feb. 4	49.25	June 11	46.85	Nov. 25	48.60
Mar. 26	49.03	July 29	47.05	Jan. 14, 1934	48.30
Apr. 25	50.25	Sept. 8	48.85	Mar. 24	48.30
May 24	49.15	Oct. 21	48.85	June 10	48.40
June 22	48.15	Nov. 26	48.85	Sept.14	48.70
July 23	48.85	Dec. 30	48.15	Oct. 31	48.30
Aug. 26	49.25	Feb. 1, 1933	48.15	Jan. 9, 1935	47.30
Sept.23	49.65	Feb. 23	48.35	Apr. 9	46.20
Oct. 22	49.25	Apr. 28	49.25	Jan. 5, 1937	48.70
Nov. 28	49.00	June 6	47.65	June 27, 1939	48.80
Dec. 20	48.25	July 1	48.05	July 13, 1940	49.00
Jan. 27, 1932	47.55	July 25	50.40	Nov. 7	48.36
Feb. 29	47.15				

High and low water level, in feet below land-surface datum, 1944
(From recorder charts)

Day	June		July		September	
	High	Low	High	Low	High	Low
1	....	....	....	....	....	....
2	....	....	....	....	....	....
3	....	....	....	....	....	....
4	....	....	....	....	....	....
5	....	....	....	....	....	....
6	....	....	....	....	....	....
7	....	....	....	....	....	....
8	....	....	....	....	7.37	7.47
9	....	....	....	....	7.42	7.48
10	....	....	....	....	7.22	7.42
11	....	....	....	....	7.24	7.38
12	....	....	....	....	7.20	7.38
13	....	....	....	....	7.19	7.38
14	8.71	8.93	....	....	7.36	7.77

13--Continued.

High and low water level, in feet below land-surface datum, 1944
(From recorder charts)

Day	June		July		September	
	High	Low	High	Low	High	Low
15	8.86	9.02	....	....	....	....
16	8.83	9.01	....	....	....	....
17	8.70	8.88	....	....	....	....
18	8.67	8.87	a 8.50	....	....	....
19	8.71	8.95	8.16	8.51	....	....
20	8.77	8.93	8.04	8.25	....	....
21	8.55	8.81	8.05	8.23	....	....
22	....	....	7.81	8.07	....	....
23	....	....	7.41	7.81	....	....
24	....	....	7.20	7.40	....	....
25	....	....	7.05	7.22	....	....
26	....	....	6.92	7.05	....	....
27	....	....	6.84	6.95	....	....
28	....	....	6.84	6.89	....	....
29	....	....	6.85	7.00	....	....
30	....	....	6.91	7.05	....	....
31			....	....		

a Observed water level.

High and low water level, in feet below land-surface datum, 1945
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	a8.34	.....	.....	....	9.86	9.92	10.35	10.40	11.20	11.26
2	.....	.....	.....	.....	.....	....	9.88	9.95	10.34	10.37	11.24	11.28
3	.....	.....	.....	.....	.....	....	9.93	9.98	10.33	10.35	11.25	11.30
4	.....	.....	.....	.....	.....	....	9.97	10.01	10.33	10.48	11.25	11.33
5	.....	.....	.....	.....	a9.00	....	9.98	10.07	10.47	10.58	11.28	11.38
6	.....	.....	.....	.....	8.98	9.07	10.05	10.17	10.53	10.57	11.33	11.42
7	.....	.....	.....	.....	9.03	9.11	10.10	10.18	10.54	10.60	11.30	11.40
8	.....	.....	.....	.....	9.08	9.16	10.08	10.17	10.55	10.65	11.27	11.38
9	.....	.....	.....	.....	9.12	9.23	10.09	10.20	10.58	10.67	11.28	11.37
10	a8.08	.....	.....	.....	9.17	9.28	10.12	10.22	10.58	10.68	11.33	11.42
11	.....	.....	.....	.....	9.21	9.32	10.15	10.25	10.62	10.72	11.37	11.44
12	.....	.....	.....	.....	9.23	9.33	10.19	10.27	10.64	10.74	11.40	11.45
13	.....	.....	a8.46	.....	9.26	9.36	10.22	10.28	10.67	10.75	11.35	11.41
14	.....	.....	.....	.....	9.32	9.40	10.24	10.32	10.70	10.78	11.27	11.36
15	.....	.....	.....	.....	9.37	9.45	10.26	10.32	10.73	10.83	.....	.....
16	.....	.....	.....	.....	9.43	9.50	10.25	10.30	10.73	10.76	.....	.....
17	.....	.....	.....	.....	9.48	9.52	10.22	10.25	10.74	10.77	.....	.....
18	.....	.....	.....	.....	9.52	9.55	10.21	10.27	10.76	10.83	.....	.....
19	.....	.....	.....	.....	9.54	9.56	10.21	10.32	10.80	10.85	.....	.....
20	.....	.....	.....	.....	9.52	9.55	10.15	10.20	10.82	10.90	.....	.....
21	.....	.....	.....	.....	9.47	9.53	10.10	10.17	10.87	10.96	.....	.....
22	.....	.....	.....	.....	9.51	9.58	10.07	10.15	10.92	11.02	.....	.....
23	.....	.....	.....	.....	9.55	9.62	10.03	10.10	10.96	11.05	.....	.....
24	.....	.....	.....	.....	9.55	9.65	10.03	10.10	10.98	11.08	.....	.....
25	.....	.....	.....	.....	9.57	9.64	10.04	10.13	11.03	11.12	.....	.....
26	.....	.....	.....	.....	9.58	9.69	10.11	10.18	11.05	11.13	.....	.....
27	.....	.....	.....	.....	9.65	9.78	10.15	10.25	11.08	11.15	.....	.....
28	.....	.....	.....	.....	9.75	9.83	10.19	10.25	11.12	11.18	.....	.....
29	.....	.....			9.78	9.85	10.20	10.28	11.12	11.17	.....	.....
30	.....	.....			9.78	9.85	10.25	10.36	11.13	11.18	.....	.....
31	.....	.....			9.82	9.87			11.17	11.21		

a Observed water level.

High and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	6.88	6.94	....	....	6.98	7.13	7.19	7.31	8.15	8.24	8.28	8.35
2	6.87	6.94	....	....	6.90	7.03	7.15	7.25	8.10	8.20	8.17	8.35
3	6.79	6.92	....	....	6.89	7.00	7.09	7.14	8.08	8.15	7.98	8.17
4	6.75	6.82	....	....	6.85	6.95	7.13	7.21	8.09	8.15	7.85	7.97
5	6.82	6.92	....	....	6.80	6.89	7.18	7.25	8.15	8.25	7.82	7.83

13--Continued.

High and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
6	6.90	6.95	....	....	6.80	6.86	7.24	7.28	8.24	8.29	7.80	7.83
7	6.93	6.99	....	....	6.82	6.86	7.27	7.33	8.23	8.28	7.75	7.80
8	....	....	....	....	6.84	6.85	7.30	7.39	8.21	8.28	7.75	7.79
9	....	....	....	....	6.81	6.89	7.35	7.46	8.26	8.38	7.77	7.85
10	....	....	....	....	6.86	6.94	7.42	7.53	8.34	8.42	7.72	7.90
11	....	....	....	....	6.92	7.00	7.48	7.58	8.35	8.45	7.82	7.93
12	....	....	....	....	6.95	7.01	7.52	7.64	8.37	8.47	7.75	7.84
13	....	....	....	....	6.91	7.00	7.60	7.73	8.40	8.52	7.73	7.82
14	....	....	....	....	6.79	6.95	7.68	7.77	8.48	8.55	7.74	7.83
15	....	....	....	....	6.71	6.83	7.71	7.79	8.47	8.56	7.65	7.77
16	....	....	....	....	6.72	6.83	7.70	7.78	8.40	8.50	7.53	7.65
17	....	....	....	....	6.77	6.84	7.67	7.78	8.30	8.43	7.48	7.55
18	....	....	....	....	6.75	6.85	7.70	7.77	8.26	8.32	7.49	7.55
19	....	....	....	....	6.76	6.82	7.71	7.75	8.12	8.27	6.82	7.64
20	....	....	....	....	6.80	6.90	7.74	7.77	8.05	8.14	6.52	6.81
21	....	....	....	....	6.90	6.95	7.77	7.83	7.97	8.06	6.58	6.70
22	....	....	....	....	6.95	7.01	7.83	7.84	7.90	7.97	6.67	6.73
23	....	....	....	....	7.01	7.07	7.80	7.82	7.87	7.91	6.68	6.74
24	....	....	....	....	7.06	7.12	7.78	7.83	7.86	7.90	....	....
25	....	....	7.50	7.60	7.10	7.15	7.76	7.82	7.83	7.90	....	....
26	....	....	7.55	7.58	7.12	7.16	7.75	7.94	7.83	7.94	....	....
27	....	....	7.26	7.56	7.15	7.20	7.94	8.10	7.88	8.00	....	....
28	....	....	7.06	7.30	7.12	7.19	8.07	8.18	7.96	8.05	....	....
29	....	....			7.02	7.12	8.10	8.20	8.03	8.14	....	....
30	....	....			7.02	7.10	8.10	8.21	8.14	8.24	....	....
31	....	....			7.05	8.25			8.23	8.33		

Jackson County

11. Aycock Lumber Co. 3 miles west of Cottondale, west side of U. S. Highway 90, in a field, in NW¼SW¼ sec. 34, T. 5 N., R. 12 W. Unused drilled industrial well, diameter 8 inches, depth 320 feet. Measuring point, top of 8-inch casing, 137.0 feet above mean sea level and 1.2 feet above land-surface datum. Water levels, in feet below land-surface datum, 1946: Oct. 25, 23.6; Nov. 21, 22.4.

14. First National Bank of Dothan. 0.5 mile north of Campbellton, on east side of U. S. Highway 23, in a pumphouse 75 feet north of a farm house, in SW¼NE¼ sec. 2, T. 6 N., R. 12 W. Used drilled domestic well, diameter 6 inches, depth 190 feet. Measuring point, top of 6-inch casing, 160.0 feet above mean sea level and 0.6 foot above land-surface datum. Water levels, in feet below land-surface datum, 1946: Oct. 25, 23.6; Nov. 21, 22.4.

Lee County

Measurements have been discontinued on the following wells in Lee County:

8	42	76	151	178	218
14	43	80	152	180	219
17	61	82	154	181	220
21	62	86	157	183	222
23	64	87	158	195	223
30	66	88	159	196	224
31	67	122	160	200	225
38	68	143	161	202	226
39	72	145	172	208	228
40	74	149	175	216	229
41	75	150	177	217	231

115 (*1017, p. 146; 1024, p. 56). U. S. Army. SE¼SW¼ sec. 12, T. 45 S., R. 24 E. Water-stage recorder removed July 31.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Jan. 7	3.35	3.45	Apr. 15	3.57	3.68
14	3.45	3.50	22	3.68	3.78
21	3.50	3.56	29	3.78	3.86
28	3.56	3.58	May 6	3.55	3.87
Feb. 4	3.56	3.62	13	3.55	3.69
11	3.62	3.67	June 3	1.80	2.63
18	3.66	3.72	10	1.77	2.41
25	3.72	3.76	17	1.49	2.09
Mar. 4	2.61	3.76	24	a .07	1.90
11	2.76	3.08	July 1	a .12	1.45
18	3.08	3.19	8	.10	1.91
25	3.19	3.34	15	.72	2.09
Apr. 1	3.34	3.44	22	.59	2.14
8	3.44	3.57			

a Above land-surface datum.

237 (*1024, p. 61). Geol. Survey, U. S. Dept. of Interior. SW¼NE¼ sec. 24, T. 44 S., R. 24 E. Water-stage recorder removed Aug. 1.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Jan. 7	11.64	13.34	Apr. 22	11.68	12.79
14	12.12	13.53	May 13	11.09	12.58
21	11.95	13.53	20	10.91	12.68
Feb. 4	11.71	13.29	27	10.88	12.64
11	11.59	12.96	June 3	10.96	12.32
18	11.66	13.36	10	10.64	12.66
25	11.84	13.18	17	10.88	12.80
Mar. 4	11.58	13.41	24	10.25	11.82
11	11.72	13.40	July 1	10.20	11.92
18	11.96	13.43	8	10.20	11.97
25	11.93	13.27	15	10.20	12.01
Apr. 1	11.62	13.11	22	10.21	11.91
15	11.43	12.67			

238 (*1024, p. 62). Geol. Survey, U. S. Dept. of Interior. SW¼NE¼ sec. 24, T. 44 S., R. 24 E. Water-stage recorder removed July 30.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Jan. 7	8.57	8.70	Apr. 22	9.06	9.17
14	8.67	8.85	29	9.11	9.26
21	8.81	8.94	May 6	8.94	9.21
28	8.91	9.00	13	8.67	8.94
Feb. 4	8.93	9.08	20	7.72	8.67
11	8.98	9.07	27	7.75	8.16
18	9.03	9.17	June 3	8.14	8.32
25	9.04	9.19	10	8.23	8.38
Mar. 4	8.99	9.26	17	7.72	8.40
11	9.01	9.20	24	7.40	7.72
18	9.13	9.22	July 1	7.02	7.42
25	9.07	9.24	8	6.80	7.23
Apr. 1	9.07	9.25	15	6.91	7.23
8	9.04	9.16	22	7.15	7.29
15	9.05	9.13	29	6.57	7.31

239 (*1024, p. 62). Geol. Survey, U. S. Dept. of Interior. SE¼NE¼ sec. 24, T. 44 S., R. 24 E. Water-stage recorder removed Aug. 1.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Jan. 7	9.30	9.49	Apr. 22	10.40	10.48
Apr. 14	9.47	9.67	29	10.47	10.53
21	9.64	9.78	May 6	10.53	10.59
28	9.74	9.88	13	10.53	10.60
Feb. 4	9.84	9.97	20	10.47	10.60
11	9.92	10.01	27	10.37	10.53
18	9.99	10.10	June 3	10.24	10.37
25	10.06	10.20	10	10.14	10.24
Mar. 4	10.13	10.26	17	9.95	10.23
11	10.14	10.28	24	9.51	9.95
18	10.25	10.31	July 1	8.95	9.52
25	10.30	10.36	8	8.60	8.95
Apr. 1	10.33	10.39	15	8.59	8.78
8	10.34	10.39	22	8.78	8.95
15	10.38	10.42	29	8.62	9.08

246 (*1024, p. 63). Geol. Survey, U. S. Dept. of Interior. SE¼NE¼ sec. 20, T. 44 S., R. 25 E. Water level affected by pumpage of nearby wells from May 11 to Nov. 4.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Feb. 4	3.62	3.76	June 24	0.35	1.43
11	3.75	3.86	July 1	.31	1.09
18	3.85	3.97	8	.55	1.53
25	3.94	4.06	15	.45	1.99
Mar. 4	2.62	4.08	22	.40	1.52
11	2.89	3.24	29	.36	1.63
18	2.73	3.33	Aug. 5	.72	1.71
25	2.99	3.43	12	.67	1.98
Apr. 1	3.43	3.69	19	.37	1.66
8	3.68	3.86	26	.26	1.67
15	3.86	3.92	Sept. 2	.35	1.42
22	3.92	4.20	9	.33	1.56
29	4.20	4.28	16	.56	1.31
May 6	3.92	4.29	23	.29	1.36
13	3.91	4.09	30	.63	1.37
20	3.78	4.09	Oct. 7	.44	1.76
27	3.14	3.85	14	.45	1.69
June 3	3.21	3.66	21	1.68	2.26
10	2.66	3.48	28	2.26	2.58
17	.44	2.68	Nov. 4	.95	2.76

418. U. S. Army. Sec. 9, T. 44 S., R. 26 E., Buckingham Army Air Field near Fort Myers. Drilled supply well, diameter 8 inches, depth 92.6 feet. Measuring point, top of casing, 1.4 feet above land-surface datum, and 22.91 feet above mean sea level, 1929 adjustment. Water-stage recorder installed Apr. 4, 1946. Water level affected by pumpage of nearby well.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Apr. 15	6.54	6.87	Aug. 5	2.79	3.80
22	6.71	7.72	12	3.52	4.11
29	6.73	7.26	19	3.18	4.23
May 6	5.97	7.20	26	3.52	4.21
13	5.91	6.58	Sept. 2	3.52	4.39
20	5.47	6.30	9	2.70	3.97
27	5.37	5.99	16	2.94	3.72
June 3	5.34	5.76	23	3.34	3.86
July 1	3.20	4.14	30	3.76	4.32
8	3.57	4.59	Oct. 7	3.78	4.59
15	4.34	4.94	14	3.65	4.93
22	4.12	4.95	21	4.47	4.97
29	3.52	4.21	28	4.63	5.04

418--Continued.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Nov. 4	4.17	5.39	Dec. 9	4.65	5.19
11	4.25	4.49	16	4.74	5.20
18	4.39	4.92	23	4.91	5.29
25	4.64	5.49	30	5.13	5.48
Dec. 2	4.54	5.33			

Leon County

5. City of Tallahassee. Gadsden and Gaines Streets, in a pump house, NE¼NE¼ sec. 1, T. 1 S., R. 1 W. Used drilled public-supply well, diameter 20 to 22 inches, depth 235 feet. Measuring point, concrete well curb, 95.94 feet below land-surface datum and 29.60 feet above mean sea level. Record begins in 1931. Measurements supplied by City of Tallahassee.

Water level, in feet below land-surface datum, 1931

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Dec. 9	104.1	Dec. 15	104.9	Dec. 21	104.9	Dec. 28	104.9
10	103.9	16	104.9	22	105.1	29	104.9
11	103.9	17	104.9	23	105.1	30	104.9
12	104.9	18	105.1	24	104.9	31	104.9
14	105.1	19	105.1	25	104.9		

Water level, in feet below land-surface datum, 1932

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	104.9	103.4	104.0	104.4	.....	105.2	102.9	103.2	100.9	96.7	97.0	97.7
2	105.1	103.6	104.1	104.3	104.5	105.2	103.0	103.5	100.7	....	....	97.7
3	.....	103.5	104.1	.....	104.5	105.2	.....	103.5	100.1	96.7	97.1	97.7
4	105.1	103.5	103.9	104.3	104.6	105.2	.....	104.2	.....	96.7	97.1	....
5	105.1	103.5	103.9	104.2	104.5	.....	103.5	103.5	.....	96.7	97.0	97.7
6	104.9	103.9	103.9	104.2	104.6	105.1	103.4	103.4	100.5	96.7	97.0	97.6
7	105.1	.....	103.9	104.2	104.4	105.1	103.4	.....	100.1	96.6	97.0	97.6
8	105.1	102.9	103.9	104.2	.....	105.1	103.3	103.2	100.6	96.6	96.9	97.8
9	105.1	103.7	103.9	104.2	104.7	105.1	103.0	104.4	100.7	....	97.1	97.9
10	.....	103.6	103.9	.....	104.8	105.2	.....	103.4	99.9	96.7	98.1	98.0
11	105.4	103.7	104.0	104.2	104.5	105.8	103.4	103.2	....	96.4	97.2	97.9
12	104.3	103.7	104.0	104.3	104.6	105.2	103.3	102.8	100.4	96.6	97.2	97.7
13	104.2	103.7	.....	104.3	105.5	105.2	103.4	102.7	100.5	96.6	....	97.0
14	104.0	.....	104.2	104.3	105.0	105.2	103.3	.....	100.3	....	97.3	97.9
15	104.1	103.5	104.0	104.3	.....	104.9	103.4	103.5	100.2	96.6	97.2	97.9
16	103.8	103.8	104.0	104.4	105.0	104.9	103.5	103.5	99.9	96.9	97.2	98.0
17	103.7	103.7	104.0	.....	105.0	104.8	103.4	102.5	99.9	96.5	97.3	98.0
18	103.8	103.6	104.0	104.4	105.0	104.5	103.9	102.3	....	96.6	97.2	....
19	103.7	103.5	104.0	104.3	105.0	.....	103.4	102.4	100.1	96.7	97.4	98.0
20	103.5	103.7	.....	104.4	.....	104.2	103.5	102.4	99.3	96.7	....	98.1
21	103.8	.....	104.1	104.4	104.7	104.2	103.3	102.2	98.0	96.7	97.4	98.1
22	103.7	.....	104.1	104.4	.....	104.0	103.3	102.1	98.0	96.8	97.4	98.1
23	103.8	103.8	104.2	104.4	104.5	103.9	.....	101.8	97.9	96.7	97.4	98.1
24	.....	103.9	104.2	.....	104.8	103.8	.....	101.5	97.7	96.7	97.3	....
25	103.5	104.0	104.2	104.4	105.0	103.6	103.5	101.7	....	96.7	97.5	....
26	103.5	103.8	104.2	104.6	105.0	.....	103.6	101.5	97.2	....	97.4	98.2
27	103.5	103.9	.....	104.6	104.9	103.7	103.2	101.5	97.2	97.0	....	98.3
28	103.4	.....	104.2	104.2	105.1	103.7	103.4	.....	97.1	97.0	97.7	98.3
29	103.6	103.9	104.2	104.5	.....	103.7	103.3	101.2	96.9	97.0	97.7	98.2
30	103.4		.....	104.7	105.1	103.7	103.2	101.0	96.7	....	97.7	98.3
31	.....		104.3		105.1		.....	100.9		97.0		98.1

5--Continued.

Water level, in feet below land-surface datum, 1933

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	98.7	95.7	95.0	91.4	92.9	95.5	97.3	98.6	99.6	101.0	102.2
2	97.9	98.6	95.7	95.0	91.6	93.1	95.4	97.4	98.7	99.7	101.0	102.2
3	98.4	98.2	95.7	94.6	91.5	93.4	95.5	97.4	98.6	99.7	101.1	102.2
4	98.6	98.1	95.7	94.7	91.4	93.6	95.5	97.3	98.5	99.7	101.1	102.2
5	98.5	....	....	94.6	91.6	93.6	95.6	97.4	98.5	99.7	101.1	102.2
6	98.6	97.9	95.6	94.6	91.9	93.7	95.6	97.4	98.7	99.7	101.2	102.2
7	98.7	97.6	95.4	94.6	92.1	93.9	95.7	97.6	98.7	99.7	101.2	102.3
8	....	97.5	95.6	94.5	92.1	94.0	95.8	97.5	98.8	99.8	101.3	102.2
9	98.7	97.4	95.4	....	92.3	94.1	95.8	97.6	98.8	99.7	101.2	102.4
10	98.7	97.4	95.6	94.4	92.5	94.1	95.8	97.6	98.9	99.9	101.2	102.5
11	98.7	97.1	95.6	94.3	92.4	94.2	95.8	97.6	98.9	100.2	101.2	102.5
12	98.7	....	....	94.2	92.6	94.3	95.8	97.7	98.9	100.2	101.3	102.7
13	98.7	96.8	95.6	94.1	92.6	94.4	96.2	97.4	99.0	100.2	101.4	102.4
14	98.7	96.7	95.6	93.9	92.6	94.5	96.2	97.5	99.0	100.2	101.6	102.7
15	98.7	96.7	95.6	93.6	92.6	94.6	96.2	97.7	98.9	100.2	101.7	102.6
16	98.7	96.6	95.6	93.7	92.6	94.6	96.4	97.7	99.0	100.3	101.7	102.7
17	98.7	96.4	95.6	92.9	92.6	94.7	96.6	97.9	99.1	100.2	101.7	102.6
18	98.8	96.3	95.6	92.4	92.6	94.8	96.6	98.0	99.2	100.3	101.7	102.6
19	98.8	....	....	92.1	92.7	94.9	96.6	97.8	99.2	100.5	101.6	102.6
20	98.9	96.2	95.2	92.0	92.7	94.9	96.6	97.9	99.2	100.5	101.7	102.8
21	98.8	96.2	95.3	91.9	92.9	95.0	96.6	98.0	99.2	100.5	101.7	102.7
22	....	96.2	95.4	91.9	92.7	95.0	96.7	98.0	99.2	100.4	101.7	103.0
23	98.7	96.1	95.4	91.8	92.9	95.1	96.7	98.1	99.2	100.2	101.8	102.9
24	98.7	96.1	95.3	91.9	93.1	95.1	96.6	98.1	99.2	100.3	101.7	103.0
25	98.6	95.8	95.2	92.0	93.1	95.2	96.6	98.1	99.3	100.4	101.7	103.1
26	98.6	95.8	95.2	92.1	93.1	95.2	96.7	98.1	99.4	100.7	101.9	103.1
27	98.7	95.7	95.2	91.9	93.1	95.3	96.7	98.2	99.4	100.7	102.1	103.2
28	98.7	....	95.1	91.9	93.4	95.4	96.7	98.2	99.4	100.7	102.1	103.3
29	....		95.1	91.4	93.6	95.6	96.7	98.3	99.5	100.9	102.2	103.2
30	98.7		95.1	91.2	93.4	95.5	96.9	98.4	99.6	101.0	102.0	103.2
31	98.7		95.1		93.7		97.1	98.5		101.0		.....

Water level, in feet below land-surface datum, 1934

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	103.3	.....	104.8	104.7	105.2	104.9	104.6	103.0	102.2	103.3	103.8	105.0
2	103.4	104.3	104.7	104.7	105.2	104.9	104.6	103.0	102.2	103.3	103.8	105.0
3	103.4	104.2	104.7	104.8	105.2	105.0	104.6	103.0	102.2	103.4	103.8	105.0
4	103.5	104.2	104.7	104.9	105.2	105.0	104.6	102.9	102.2	103.4	103.8	105.0
5	103.7	104.3	104.7	104.9	105.2	105.2	104.7	102.9	102.2	103.2	103.8	105.0
6	103.6	104.4	104.8	104.9	105.2	105.2	104.7	102.8	102.2	103.6	104.1	105.0
7	103.6	104.4	104.8	104.9	105.2	105.2	104.6	102.8	102.2	103.4	104.2	105.0
8	103.7	104.5	104.7	105.0	105.2	105.2	104.6	102.7	102.2	103.3	104.4	105.0
9	103.7	104.4	104.7	105.0	105.2	105.2	104.6	102.6	102.2	103.5	104.5	105.0
10	103.6	104.4	104.6	105.0	105.3	105.2	104.5	102.4	102.4	103.5	104.6	105.1
11	103.6	104.4	104.7	105.0	105.3	105.2	104.5	102.2	102.4	103.5	104.7	105.2
12	103.5	104.5	104.6	105.0	105.2	105.2	104.4	102.1	102.4	103.5	104.6	105.2
13	103.9	104.5	104.7	105.0	105.2	105.2	104.2	102.1	102.4	103.5	104.6	105.2
14	103.8	104.6	104.7	105.0	105.2	105.1	104.2	102.1	102.3	103.6	104.6	105.2
15	103.8	104.6	104.7	104.9	105.2	105.1	104.2	102.1	102.3	103.6	104.6	105.2
16	103.6	104.6	104.7	105.1	105.2	105.2	104.2	102.0	102.3	103.6	104.2	105.2
17	103.5	104.6	104.7	105.1	105.2	105.2	104.1	101.9	102.3	103.7	104.2	105.2
18	103.4	104.6	104.8	105.1	105.2	105.1	104.2	102.0	102.5	103.7	104.7	105.2
19	103.7	104.6	104.7	105.0	105.2	105.1	103.9	101.9	102.5	103.7	104.7	105.2
20	103.7	104.6	104.8	105.1	105.2	105.1	103.9	101.9	102.5	103.7	104.7	105.2
21	103.6	104.7	104.7	105.0	105.2	105.1	103.9	102.0	102.7	103.7	104.7	105.2
22	104.0	104.7	104.8	105.1	105.2	105.2	103.9	101.9	102.9	103.7	104.7	105.2
23	103.9	104.7	104.7	105.0	105.2	105.2	103.5	102.0	102.9	103.7	104.7	105.3
24	104.0	104.7	104.7	105.1	105.2	105.2	103.5	102.0	102.9	103.7	104.7	105.3
25	104.3	104.7	104.7	105.1	105.1	105.1	103.5	102.0	102.9	103.7	104.7	105.3
26	104.3	104.7	104.8	105.1	105.2	105.2	103.4	102.0	102.9	103.7	104.8	105.3
27	104.3	104.8	104.8	105.0	105.2	105.2	103.3	102.0	102.9	103.7	104.8	105.3
28	104.3	104.8	104.8	105.1	105.2	104.7	103.2	102.1	102.9	103.7	104.8	105.3
29	104.2		104.8	105.2	105.2	104.7	103.1	102.1	102.9	103.8	104.8	105.3
30	104.2		104.8	105.2	105.3	104.7	103.1	102.1	102.9	103.8	104.9	105.3
31	104.3		104.8		105.3		103.1	102.1		103.8		105.3

5--Continued.

Water level, in feet below land-surface datum, 1935

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	105.3	106.0	105.1	104.8	104.9	104.7	105.1	104.6	102.1	97.2	98.8	100.7
2	105.3	105.9	105.7	104.8	104.9	104.7	105.1	104.6	102.1	97.2	98.8	100.7
3	105.5	105.9	105.7	104.8	105.0	104.7	105.1	104.5	102.1	97.2	99.2	100.6
4	105.5	105.9	104.7	104.8	104.9	104.7	105.1	104.6	101.5	97.2	99.2	100.7
5	105.6	106.0	104.8	104.8	104.8	104.7	105.1	104.6	101.5	97.2	99.1	100.7
6	105.6	105.9	104.8	.....	104.8	104.7	105.1	104.6	100.9	97.4	99.1	100.7
7	105.6	106.1	104.8	.....	104.7	104.7	105.1	104.6	99.8	97.6	99.2	100.8
8	105.6	105.9	104.7	104.8	104.7	104.7	105.1	104.6	99.4	97.6	99.2	100.7
9	105.7	105.7	104.7	104.7	104.8	104.7	105.1	104.6	99.4	97.6	99.2	100.7
10	105.7	105.7	104.7	104.7	104.7	104.7	105.2	104.5	98.9	97.7	99.2	100.9
11	104.9	105.6	104.7	104.7	104.8	104.7	105.2	104.5	98.7	97.7	99.3	101.0
12	104.9	105.7	104.7	104.7	104.9	104.7	105.2	104.5	98.4	97.7	99.4	100.8
13	104.9	105.7	104.7	104.7	104.9	104.7	105.2	104.5	98.3	97.7	99.5	100.9
14	104.9	105.7	104.7	104.7	105.1	104.7	105.1	104.5	98.2	97.7	99.5	101.1
15	105.0	105.6	104.7	104.7	104.8	104.7	105.2	104.6	98.0	97.9	99.7	101.1
16	105.1	105.7	104.7	104.8	104.8	104.7	105.2	104.6	97.9	97.9	99.7	101.2
17	105.1	105.6	104.7	104.8	104.7	104.9	105.0	104.6	97.8	97.9	99.7	101.2
18	105.2	105.5	104.7	104.8	104.7	104.9	105.1	104.4	97.8	97.9	99.9	101.2
19	105.2	105.7	104.7	104.8	104.7	104.9	105.0	104.4	97.7	98.1	99.9	101.2
20	105.3	105.6	104.7	104.8	104.7	104.9	105.0	104.4	97.5	98.1	99.9	101.4
21	105.4	105.5	104.7	104.8	104.7	104.9	104.8	104.3	97.3	98.2	99.9	101.4
22	105.5	105.4	104.7	104.7	104.7	104.9	104.8	104.0	97.3	98.2	100.0	101.4
23	105.6	105.4	104.7	104.7	104.7	104.9	104.7	104.0	97.2	98.4	100.0	101.5
24	105.7	105.3	104.7	104.7	104.7	104.9	104.7	103.8	97.3	98.4	100.2	101.5
25	105.7	105.2	104.6	104.7	104.7	104.9	104.7	103.8	97.2	98.6	100.2	101.5
26	105.7	105.3	104.6	104.7	104.7	104.9	104.7	103.8	97.3	98.8	100.2	101.5
27	105.8	105.4	104.5	104.7	104.7	104.9	104.7	103.8	97.2	98.7	100.2	101.6
28	105.9	105.2	104.7	104.7	104.6	104.9	104.6	103.8	97.2	98.7	100.4	101.6
29	106.0		104.7	104.7	104.7	104.9	104.6	103.8	97.2	98.7	100.4	101.7
30	106.0		104.7	104.9	104.7	104.9	104.6	103.8	97.2	98.7	100.4	101.7
31	106.0		104.7		104.7		104.6	103.8		98.8		101.8

Water level, in feet below land-surface datum, 1936

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	101.8	101.5	99.7	99.9	100.9	101.9	102.9	103.8	102.0	103.2	103.3	104.3
2	101.8	101.2	99.7	99.9	100.9	101.9	103.1	103.9	101.9	103.2	103.3	104.3
3	101.8	101.2	99.7	100.1	100.9	101.9	103.2	103.7	101.9	103.2	103.3	104.0
4	101.7	101.2	99.7	100.2	100.9	101.9	103.2	103.7	101.9	103.2	103.3	104.1
5	101.8	101.2	99.7	100.1	100.9	101.9	103.2	103.7	102.0	103.2	103.3	104.2
6	101.8	101.2	99.7	100.1	100.9	101.9	103.2	103.9	102.1	103.2	103.3	104.4
7	100.9	101.2	99.7	100.1	101.1	101.9	103.2	103.9	102.2	103.2	103.3	104.4
8	100.9	101.0	99.7	100.2	101.1	102.2	103.2	103.9	102.2	103.2	103.7	104.4
9	101.7	100.9	99.7	100.2	101.2	102.2	103.2	103.9	102.2	103.2	103.5	104.4
10	101.8	100.9	99.7	100.2	101.2	102.2	103.2	103.9	102.2	103.2	103.7	104.4
11	101.7	101.8	99.7	100.2	101.2	102.2	103.2	103.9	102.2	103.2	103.6	104.2
12	101.7	101.8	99.7	100.2	101.2	102.2	103.2	103.8	101.9	103.2	103.5	104.2
13	101.7	100.3	99.7	100.2	101.2	102.2	103.6	103.5	102.1	103.2	103.7	104.2
14	101.7	100.4	99.7	100.2	101.2	102.2	103.3	103.3	102.1	103.2	103.7	104.2
15	101.7	100.4	99.2	100.2	101.2	102.2	103.5	103.1	102.2	103.2	103.7	104.4
16	101.7	100.4	99.2	100.2	101.2	102.4	103.5	102.5	102.2	103.1	103.7	104.4
17	101.7	100.4	99.2	100.2	101.4	102.4	103.5	102.4	102.2	103.1	103.8	104.5
18	101.7	100.2	99.7	100.2	101.4	101.4	103.2	102.2	102.5	103.1	103.9	104.4
19	101.8	100.2	99.7	100.3	101.5	101.4	103.7	102.2	102.6	103.1	103.9	104.5
20	101.8	100.2	99.7	100.3	101.0	102.5	103.7	102.1	102.7	103.1	104.0	104.7
21	101.9	100.1	99.7	100.4	101.7	101.4	103.7	102.1	102.7	103.1	104.0	104.7
22	101.9	100.2	99.7	100.4	101.7	102.4	103.7	102.1	102.6	103.2	104.2	104.7
23	101.9	100.2	99.7	100.4	101.7	102.5	103.7	102.1	102.8	103.2	104.1	104.7
24	101.5	99.9	99.7	100.6	101.7	102.7	103.7	101.9	102.7	103.2	104.2	104.7
25	101.4	99.8	99.7	100.6	101.7	102.8	103.9	101.9	102.7	103.2	104.1	104.7
26	101.4	99.8	99.7	100.9	101.7	103.1	104.1	101.9	102.6	103.2	104.1	104.7
27	101.4	99.9	99.7	100.9	101.7	103.1	104.1	101.9	102.6	103.2	104.2	104.7
28	101.4	99.9	99.7	100.9	101.8	102.9	104.1	101.9	102.9	103.3	104.2	104.7
29	101.4	99.9	100.1	101.1	101.8	103.1	103.7	101.9	102.9	103.2	104.3	104.7
30	101.4		100.1	101.1	101.9	102.8	103.7	101.9	102.9	103.2	104.3	104.7
31	101.4		100.1		101.9		103.7	.....		103.3		104.7

5--Continued.

Water level, in feet below land-surface datum, 1937

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	104.7	105.3	105.0	104.0	102.2	102.1	101.9	102.1	99.9	98.2	99.5	100.2
2	104.7	105.2	105.0	104.1	102.3	102.1	102.2	101.9	99.9	98.2	99.5	100.3
3	104.7	105.2	105.0	103.7	102.1	102.0	102.2	101.9	99.5	98.2	99.5	100.3
4	104.7	105.2	105.0	103.7	102.0	102.0	102.3	101.9	99.5	98.4	99.7	100.3
5	104.7	105.2	105.1	103.3	102.1	102.2	102.3	101.7	99.3	98.4	99.7	100.2
6	104.7	105.2	105.1	103.3	102.1	102.2	102.4	101.6	99.1	98.4	99.7	100.3
7	104.9	105.3	105.1	103.1	102.0	102.1	102.3	101.6	98.9	98.4	99.7	100.3
8	104.9	105.4	105.1	103.1	102.0	102.0	102.4	101.2	98.6	98.4	99.7	100.3
9	104.9	105.3	105.1	103.1	102.0	102.0	102.4	101.2	98.4	98.5	99.7	100.3
10	104.9	105.3	105.1	103.1	102.2	102.0	102.2	101.2	98.4	98.4	99.7	100.5
11	104.9	105.3	104.9	103.1	102.2	102.1	102.2	101.1	98.2	98.5	99.7	100.5
12	104.9	105.3	104.9	103.1	101.9	102.0	102.2	101.1	98.2	98.7	99.7	100.5
13	104.9	105.2	104.8	102.7	101.8	102.0	102.3	101.2	98.4	....	99.7	100.5
14	104.9	105.2	104.7	102.7	101.8	102.0	102.4	101.3	98.4	....	99.7	100.5
15	104.9	105.2	104.7	102.7	101.9	102.0	102.3	101.3	98.4	98.7	99.7	100.5
16	104.9	105.2	104.7	102.7	101.9	102.0	102.4	101.3	98.4	98.7	99.7	100.5
17	104.9	105.2	104.7	102.7	101.7	102.1	102.3	101.1	98.2	98.7	100.1	100.9
18	104.9	105.2	104.7	102.7	101.7	102.1	102.3	100.9	98.2	99.1	100.1	100.9
19	104.9	105.2	104.7	102.7	101.7	102.1	102.4	101.1	98.2	98.9	100.1	100.9
20	104.9	105.1	104.6	102.7	101.7	105.0	102.2	101.1	98.2	98.9	100.1	100.9
21	104.9	105.1	104.6	102.7	101.7	105.0	102.2	101.1	98.2	98.9	100.1	100.9
22	104.9	105.0	104.6	102.7	101.7	104.9	102.2	101.1	98.2	99.0	100.1	100.9
23	104.9	105.0	104.6	102.7	101.0	105.0	102.2	100.9	98.2	99.0	100.1	100.9
24	105.0	105.0	104.6	102.7	101.7	102.1	102.3	100.9	98.2	99.0	100.2	100.9
25	105.2	105.0	104.6	102.7	101.7	102.1	102.2	101.1	98.2	99.2	100.2	100.9
26	105.2	105.2	104.6	102.7	101.8	102.1	102.2	101.1	98.2	99.2	100.2	.....
27	105.2	105.0	104.6	102.7	101.9	102.1	102.4	100.9	98.2	99.2	100.2	.....
28	105.2	105.0	104.4	102.7	101.9	101.9	102.4	100.9	98.2	99.2	100.2	.....
29	105.2		104.2	102.7	101.9	102.0	102.4	100.9	98.2	99.2	100.2	101.2
30	105.2		104.2	102.7	102.0	101.9	102.3	100.9	98.2	99.2	100.2	101.2
31	105.3		.....		102.0		102.0	100.9		99.7		101.2

Water level, in feet below land-surface datum, 1938

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	101.2	102.2	103.4	103.5	104.2	104.7	104.3	104.0	103.2	103.0	103.6	104.7
2	101.2	102.2	103.4	103.5	104.2	104.7	104.3	104.0	103.2	103.1	103.7	104.7
3	101.3	102.2	103.2	103.5	104.2	104.9	104.2	104.0	103.2	103.1	103.9	104.7
4	101.6	102.2	103.1	103.7	104.2	104.9	104.2	104.0	103.2	103.1	103.7	104.7
5	101.6	102.2	103.0	103.7	104.2	104.9	104.4	104.0	103.5	103.0	103.7	104.7
6	101.6	102.2	103.0	103.7	104.2	104.8	104.4	103.9	103.5	103.0	103.9	104.7
7	101.3	102.2	103.1	103.7	104.4	104.7	104.4	103.8	103.5	103.0	103.9	104.7
8	101.7	102.2	103.1	103.7	104.4	104.7	104.3	103.8	103.5	103.1	103.9	104.8
9	101.6	102.2	103.1	103.7	104.3	104.7	104.3	103.7	103.5	103.1	103.9	104.8
10	101.6	102.4	103.1	103.7	104.3	104.6	104.3	103.7	103.5	103.1	103.8	104.9
11	101.6	102.4	103.1	103.7	104.2	103.6	104.2	103.7	103.5	103.1	104.0	104.9
12	101.6	102.4	103.2	103.7	105.0	104.6	104.2	103.6	103.2	103.1	103.9	104.9
13	101.6	102.5	103.2	103.7	104.6	104.6	104.2	103.5	103.2	103.1	103.9	104.9
14	101.6	102.5	103.2	103.7	104.6	104.5	104.2	103.6	103.2	103.2	103.8	105.0
15	101.6	102.5	103.2	103.7	104.6	104.5	104.2	103.5	103.2	103.2	103.9	105.0
16	101.6	102.7	103.2	103.7	104.6	104.5	104.2	103.5	103.2	103.2	104.0	105.1
17	101.6	102.7	103.2	103.9	104.6	104.4	104.2	103.7	103.2	103.2	104.2	105.0
18	101.9	102.7	103.1	103.9	104.6	104.4	104.3	103.9	103.2	103.3	104.2	105.1
19	101.9	102.5	103.2	104.1	104.6	104.4	104.3	104.1	103.2	103.3	104.2	105.1
20	101.9	102.7	103.4	104.1	104.6	104.4	104.3	104.2	103.2	103.3	104.3	104.1
21	101.9	102.7	103.4	104.1	104.6	104.5	104.2	104.2	103.2	104.2	104.3	105.1
22	101.9	102.7	103.4	104.1	104.7	104.5	104.4	103.9	103.2	103.5	104.3	105.2
23	101.9	102.7	103.5	104.0	104.7	104.5	104.3	103.7	103.0	103.5	104.3	105.2
24	101.9	102.7	103.5	104.0	104.8	104.5	104.3	103.6	103.1	103.6	104.3	105.2
25	102.1	102.7	103.5	104.1	104.8	104.4	104.3	103.6	103.2	103.6	104.4	105.2
26	102.1	102.9	103.5	104.2	104.7	104.4	104.3	103.6	103.1	103.6	104.5	105.2
27	102.1	102.9	103.5	104.2	104.7	104.4	104.3	103.6	103.1	103.6	104.6	105.2
28	102.1	103.2	103.5	104.2	104.7	104.4	104.3	103.3	103.0	103.6	104.7	105.2
29	102.1		103.6	104.2	104.7	104.3	104.2	103.3	103.0	103.6	104.6	105.3
30	102.1		103.5	104.2	104.7	104.3	104.1	103.3	103.1	103.7	104.7	105.2
31	102.1		103.5		104.7		103.9	103.3		103.6		.....

5--Continued.

Water level, in feet below land-surface datum, 1939

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	105.4	105.9	104.5	103.2	101.7	100.8	97.9	97.1	94.5	95.6	97.2	99.0
2	105.3	105.9	104.4	103.2	101.7	100.8	98.3	97.2	94.6	95.6	97.2	99.0
3	105.3	105.9	104.4	103.2	101.8	100.8	97.9	97.1	94.6	95.6	97.3	99.2
4	105.4	105.9	104.1	103.2	101.9	100.8	97.6	97.1	94.7	95.6	97.4	99.2
5	105.3	106.0	103.9	103.2	101.9	100.2	97.6	97.1	94.7	95.7	97.5	99.5
6	105.4	106.0	103.8	103.2	101.8	100.7	97.6	96.8	94.7	95.7	97.7	99.4
7	105.3	105.9	103.7	103.2	101.6	100.7	97.7	96.8	94.8	95.8	97.7	99.4
8	105.4	106.1	103.5	103.0	101.3	100.7	97.7	96.6	94.8	95.9	97.8	99.4
9	105.4	106.0	103.5	102.9	101.3	100.7	97.7	96.6	94.9	95.9	97.9	99.5
10	105.4	105.9	103.4	102.8	101.2	100.6	97.7	96.6	94.9	95.9	97.9	99.5
11	105.3	105.9	103.3	102.8	101.2	100.5	97.4	96.5	95.1	96.0	97.9	99.6
12	105.7	105.9	103.2	102.7	101.2	100.5	97.3	96.5	95.1	96.1	98.1	99.6
13	105.7	105.7	103.2	102.7	101.2	100.4	97.4	96.5	95.3	96.1	98.1	99.7
14	105.7	105.7	103.2	102.7	101.2	100.4	97.4	96.5	95.3	96.1	98.1	99.7
15	105.7	105.7	103.2	102.6	101.1	99.9	97.4	95.9	95.3	96.2	98.2	99.8
16	105.6	105.6	103.2	102.4	100.9	99.7	97.4	95.9	95.4	96.2	98.2	99.9
17	105.7	105.6	103.2	102.3	100.9	99.5	97.4	95.9	95.5	96.4	98.2	99.9
18	105.6	105.4	103.2	102.3	100.9	99.4	97.4	95.5	95.4	96.4	98.3	99.9
19	105.6	105.4	103.2	102.3	100.9	99.2	97.4	95.5	95.4	96.5	98.3	100.0
20	105.7	105.4	103.3	102.3	100.9	99.2	97.4	95.5	95.4	96.5	98.4	100.1
21	105.7	105.2	103.2	102.3	100.8	98.9	97.4	95.5	95.5	96.6	98.4	101.1
22	105.7	105.2	104.0	102.2	100.9	98.7	97.4	95.4	95.6	96.6	98.4	100.2
23	105.8	105.2	104.1	102.2	100.8	98.7	97.4	95.3	95.6	96.7	98.4	100.2
24	105.7	105.2	103.2	102.1	100.8	98.5	97.4	95.2	95.6	96.7	98.5	100.2
25	105.8	105.2	103.2	102.2	100.8	98.2	97.4	95.1	95.6	96.7	98.5	100.3
26	105.9	104.9	103.2	102.0	100.9	98.3	97.7	94.9	95.6	96.7	98.7	100.3
27	105.9	104.9	103.2	102.0	100.9	98.1	97.2	94.9	....	96.9	98.9	100.2
28	105.9	104.7	103.2	102.1	100.9	98.1	97.2	94.8	95.6	96.9	98.9	100.2
29	105.8		103.2	102.1	100.8	98.1	97.2	94.7	95.6	97.0	98.9	100.3
30	105.8		103.2	101.8	100.8	97.9	97.2	94.6	95.6	97.0	99.0	100.4
31	105.9		103.2		100.8		97.1	94.5		97.1		100.5

Water level, in feet below land-surface datum, 1940

Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	101.8	101.6	101.7	100.9	102.1	102.9	101.0	100.3	101.5	103.8	104.1
2	102.1	101.6	101.7	100.7	102.2	102.9	101.0	100.4	101.7	103.2	104.1
3	102.2	101.4	101.7	100.7	102.2	103.0	100.9	100.4	102.6	103.2	104.2
4	102.2	101.4	101.7	100.7	102.2	103.1	100.8	100.5	102.7	103.2	104.3
5	102.2	101.4	101.9	100.9	102.2	103.1	100.7	100.5	102.7	103.2	104.3
6	102.2	101.4	102.0	101.0	102.2	103.1	100.7	100.6	102.7	103.2	104.3
7	102.2	101.5	102.0	101.0	102.2	103.1	100.6	100.6	101.7	103.3	104.4
8	102.3	101.5	101.7	101.0	102.2	103.0	100.6	100.6	102.0	103.3	104.4
9	102.3	101.5	101.4	101.0	102.2	102.9	100.5	100.7	102.8	103.4	104.4
10	102.2	101.5	101.5	101.0	102.2	102.8	100.4	100.7	102.2	103.4	104.4
11	102.2	101.6	101.5	101.1	102.3	102.8	100.4	100.7	103.0	103.5	104.5
12	102.2	101.6	101.3	101.1	102.4	102.6	100.4	.....	103.1	103.5	104.6
13	102.2	101.6	101.3	101.2	102.4	102.5	100.3	100.9	102.3	103.5	104.6
14	103.2	101.5	101.3	101.2	102.5	102.4	100.3	100.9	102.3	103.5	104.6
15	103.3	101.7	101.2	101.3	102.5	102.4	100.3	101.0	103.2	103.6	104.7
16	103.3	101.7	101.2	101.3	102.5	102.2	100.2	101.0	103.2	103.6	104.7
17	102.2	101.6	101.1	101.4	102.6	102.0	100.2	101.8	102.5	103.6	104.7
18	102.1	101.6	101.1	101.4	102.6	101.9	100.2	101.9	102.5	103.6	104.7
19	102.1	101.7	101.0	101.5	102.6	101.8	100.2	102.0	102.6	103.7	104.7
20	102.0	101.7	100.9	101.5	102.6	101.7	100.2	101.2	103.4	103.7	104.7
21	102.0	101.7	100.9	101.6	102.7	101.5	100.2	101.2	102.6	103.7	104.7
22	102.1	101.7	100.8	103.4	103.5	101.6	100.2	101.3	102.7	103.7	104.7
23	102.1	101.7	100.8	101.7	103.4	101.5	100.2	101.3	102.7	103.8	104.7
24	102.0	101.7	100.7	101.7	103.2	101.4	100.2	102.2	102.7	103.8	104.7
25	101.9	101.7	100.7	102.5	102.9	101.3	100.3	102.2	103.7	103.8	104.6
26	101.7	101.7	100.7	102.7	102.8	101.3	100.3	101.2	103.7	103.9	104.6
27	101.7	101.7	100.7	101.8	102.8	101.2	100.3	101.3	103.8	103.9	104.5
28	101.7	101.7	100.8	101.9	102.8	101.2	100.3	101.4	103.7	104.0	104.4
29	101.7	.....	100.8	101.9	102.9	101.2	100.3	101.5	103.7	104.0	104.4
30		101.6	100.8	101.9	102.9	101.2	100.3	101.6	103.8	104.1	104.3
31		101.7		102.3		101.1	100.3		.....		104.3

5--Continued.

Water level, in feet below land-surface datum, 1941

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	104.3	104.2	104.7	103.7	104.1	104.9	105.2	101.7	100.8	101.7	101.8	102.8
2	104.2	104.2	104.7	103.7	104.1	104.9	105.2	101.6	100.8	101.7	101.7	102.9
3	104.0	104.2	104.7	103.7	104.1	104.9	105.2	101.3	100.8	101.7	101.7	102.9
4	104.1	104.2	104.7	103.7	104.1	104.9	105.2	101.2	100.8	101.7	101.8	103.0
5	104.1	104.3	104.8	103.7	104.1	105.0	105.2	101.2	100.9	101.8	101.8	103.0
6	104.0	104.3	104.8	103.7	104.2	105.0	105.2	101.1	100.9	101.8	101.8	103.1
7	104.0	104.3	104.7	103.7	104.2	105.1	105.1	101.1	100.9	101.8	101.9	103.2
8	104.1	104.2	104.7	103.7	104.2	105.2	105.0	101.1	101.0	101.9	102.0	103.2
9	104.1	104.2	104.6	103.7	104.2	105.2	104.9	100.8	101.0	101.7	102.0	103.2
10	104.0	104.3	104.5	103.7	104.2	105.2	104.7	100.8	101.1	101.6	102.1	103.2
11	104.0	104.4	104.5	103.7	104.2	105.2	104.6	100.8	101.1	101.6	102.1	103.3
12	104.0	104.4	104.4	103.7	104.3	105.2	104.4	100.7	101.1	101.7	102.2	103.3
13	104.0	104.4	104.3	103.7	104.3	105.2	104.3	100.7	101.1	101.7	102.2	103.3
14	104.0	104.3	104.2	103.7	104.4	105.2	104.2	100.7	101.2	101.7	102.2	103.4
15	104.0	104.4	104.2	103.7	104.5	105.2	104.1	100.7	101.2	101.7	102.2	103.4
16	103.9	104.4	104.1	103.8	104.5	105.2	104.0	100.7	101.2	101.6	102.2	103.5
17	103.9	104.4	103.9	103.7	104.5	105.2	103.9	100.7	101.2	101.6	102.2	103.5
18	103.9	104.5	103.9	103.7	104.5	105.2	103.9	100.7	101.2	101.6	102.3	103.6
19	103.9	104.5	103.9	103.7	104.5	105.3	103.8	100.7	101.2	101.6	102.4	103.6
20	104.0	104.6	103.9	103.7	104.6	105.3	103.7	100.8	101.2	101.5	102.4	103.7
21	104.0	104.6	103.7	103.8	104.6	105.3	103.6	100.8	101.3	101.5	102.4	103.7
22	104.0	104.6	103.7	103.8	104.7	105.3	103.5	100.8	101.3	101.6	102.5	103.7
23	104.1	104.7	103.7	103.9	104.7	105.3	103.3	100.8	101.4	101.6	102.5	103.7
24	104.1	104.6	103.7	103.9	104.7	105.3	103.2	100.8	101.5	101.6	102.6	103.7
25	104.1	104.6	103.7	104.0	104.7	105.3	103.0	100.8	101.5	101.6	102.7	103.7
26	104.1	104.7	103.7	104.0	104.7	105.3	102.9	100.8	101.5	101.7	102.7	103.7
27	104.1	104.7	103.7	104.1	104.7	105.3	102.8	100.8	101.5	101.7	102.7	103.7
28	104.1	104.7	103.7	104.1	104.8	105.3	102.6	100.7	101.6	101.7	102.7	103.8
29	104.2		103.7	104.1	104.8	105.3	102.3	100.7	101.6	101.7	102.8	103.8
30	104.2		103.8	104.1	104.8	105.3	102.1	100.7	101.6	101.7	102.8	103.8
31	104.2		103.8		104.8		101.8	100.8		101.8		103.8

Water level, in feet below land-surface datum, 1942

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	103.9	102.2	101.3	97.3	97.6	99.2	97.6	97.7	98.7	99.6	100.2	101.5
2	103.7	102.3	101.2	97.2	97.7	99.3	97.5	97.7	98.8	99.6	100.2	101.5
3	103.8	102.3	101.1	97.1	97.7	99.3	97.4	97.7	98.8	99.6	100.4	101.5
4	103.6	102.4	101.1	97.1	97.8	99.3	97.4	97.8	98.9	99.6	100.5	101.7
5	103.6	102.4	101.0	97.1	97.9	99.3	97.4	97.8	98.9	99.6	100.5	101.8
6	103.5	102.4	100.7	97.0	97.9	99.2	97.3	97.8	99.0	99.5	100.6	101.8
7	103.4	102.2	100.8	97.0	98.0	99.2	97.2	97.9	99.0	99.5	100.6	101.8
8	103.2	102.3	100.6	97.0	98.0	99.3	97.1	97.9	99.0	99.5	100.6	101.8
9	103.1	102.5	100.5	97.0	98.1	99.4	97.1	97.9	99.1	99.6	100.6	102.0
10	102.8	102.5	100.5	96.9	98.1	99.2	97.1	97.9	99.1	99.6	100.6	102.0
11	102.7	102.6	100.4	96.9	98.1	99.1	97.2	97.9	99.1	99.5	100.6	102.0
12	102.6	102.5	100.3	97.0	98.1	99.1	97.2	98.1	99.1	99.5	100.7	101.9
13	102.6	102.6	100.2	97.0	98.2	99.1	97.2	98.1	99.1	99.6	100.8	102.0
14	102.5	102.6	100.1	97.1	98.2	99.1	97.2	98.1	99.2	99.6	100.9	102.1
15	102.4	102.7	100.1	97.1	98.3	99.1	97.2	98.1	99.2	99.6	101.0	102.1
16	102.3	102.5	100.0	97.1	98.3	99.1	97.1	98.1	99.3	99.6	101.1	102.1
17	102.3	102.3	99.9	97.1	98.3	99.0	97.1	98.1	99.3	99.7	101.1	102.1
18	102.3	102.3	99.6	97.1	98.4	98.8	97.2	98.2	99.4	99.7	101.1	102.1
19	102.2	102.2	99.0	97.1	98.6	98.7	97.2	98.2	99.4	99.7	101.1	102.1
20	102.2	102.1	99.0	97.1	98.6	98.7	97.2	98.3	99.5	99.8	101.2	102.1
21	102.2	102.1	98.9	97.1	98.6	98.7	97.3	98.3	99.5	99.8	101.2	102.2
22	102.2	102.1	98.7	97.1	98.6	98.7	97.3	98.4	99.5	99.8	101.2	102.2
23	102.1	102.0	98.4	97.3	....	98.6	97.4	98.4	99.6	99.9	101.2	102.1
24	102.2	101.6	98.2	97.4	98.7	98.4	97.4	98.5	99.6	100.0	101.2	102.2
25	102.1	101.5	98.1	97.5	98.8	98.2	97.5	98.5	99.7	100.1	101.3	102.2
26	102.1	101.5	97.9	97.5	98.9	98.1	97.5	98.6	99.7	100.1	101.3	102.2
27	102.1	101.4	97.7	97.5	98.9	98.1	97.6	98.6	99.6	100.1	101.4	102.3
28	102.1	101.4	97.6	97.5	99.0	98.0	97.6	98.6	99.6	100.1	101.6	102.3
29	102.1		97.5	97.6	99.1	97.8	97.6	98.6	99.6	100.2	101.6	102.3
30	102.3		97.4	97.6	99.1	97.7	97.6	98.7	99.6	100.2	101.5	102.4
31	102.2		....		99.2		97.6	98.7		100.2		102.4

5--Continued.

Water level, in feet below land-surface datum, 1943

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	102.4	102.1	100.6	98.9	99.8	100.7	101.1	101.8	102.5	103.4	104.3	105.1
2	102.5	102.0	100.6	98.9	99.9	100.7	101.1	101.8	102.6	103.4	104.4	105.1
3	102.5	102.0	100.6	98.9	99.9	100.7	101.1	101.8	102.6	103.5	104.4	105.1
4	102.5	101.9	100.6	99.0	100.0	100.8	101.1	101.8	102.6	103.5	104.5	105.1
5	102.6	101.8	100.6	99.0	100.1	100.8	101.1	101.9	102.6	103.6	104.5	105.1
6	102.6	101.7	100.5	99.0	100.1	100.8	101.1	101.9	102.7	103.6	104.5	105.1
7	102.6	101.6	100.5	99.1	100.1	100.8	101.1	102.0	102.7	103.6	104.5	105.1
8	102.5	101.6	100.3	99.1	100.1	100.9	101.1	101.8	102.7	103.6	104.5	105.1
9	102.5	101.5	100.2	99.0	100.1	101.0	101.2	102.0	102.8	103.6	104.6	105.1
10	102.6	101.4	100.1	99.1	.....	101.0	101.2	102.1	102.8	103.7	104.6	105.1
11	102.6	101.2	100.0	99.1	100.2	100.9	101.3	102.1	102.9	103.7	104.6	105.1
12	102.6	101.2	99.8	99.1	100.2	100.9	101.3	102.1	102.9	103.8	104.6	105.1
13	102.6	101.1	99.6	99.1	100.3	101.0	101.4	102.1	102.9	103.8	104.6	105.1
14	102.6	101.0	99.6	....	100.3	101.1	101.4	102.1	103.0	103.8	104.7	105.2
15	102.6	101.1	99.5	99.4	100.4	101.1	101.4	102.1	103.1	103.8	104.7	105.2
16	102.6	101.0	99.4	99.4	100.5	101.1	101.4	102.1	103.1	103.8	104.7	105.3
17	102.6	100.9	99.3	99.4	100.6	101.1	101.5	102.1	103.1	103.8	104.7	105.4
18	102.6	100.8	99.2	99.4	100.6	101.1	101.5	102.1	103.1	103.9	104.7	105.4
19	102.6	100.7	99.1	99.2	100.6	101.2	101.5	102.1	103.1	104.1	104.8	105.4
20	102.6	100.6	99.1	99.4	100.6	101.2	101.5	102.1	103.1	104.1	104.8	105.4
21	102.6	100.6	99.1	99.5	100.6	101.2	101.6	102.1	103.2	104.1	104.8	105.4
22	102.5	100.5	99.1	99.6	100.6	101.1	101.6	102.1	103.2	104.1	104.8	105.4
23	102.4	100.5	99.1	99.6	100.6	101.1	101.6	102.1	103.2	104.1	104.9	105.4
24	102.3	100.6	99.1	99.5	100.6	101.1	101.6	102.2	103.2	104.1	104.9	105.5
25	102.2	100.6	99.0	99.6	100.6	101.1	101.6	102.2	103.2	104.1	105.0	105.5
26	102.2	100.6	98.9	99.6	100.6	101.1	101.6	102.3	103.3	104.1	105.0	105.5
27	102.2	100.2	98.8	99.6	100.7	101.1	101.6	102.3	103.3	104.1	105.0	105.5
28	102.1	100.6	98.8	99.7	100.7	101.1	101.6	102.3	103.3	104.2	105.0	105.5
29	102.1		98.8	99.7	100.7	101.1	101.6	102.4	103.4	104.3	104.9	105.4
30	102.1		99.0	99.8	100.7	101.1	101.7	102.4	103.4	104.3	105.0	105.5
31	102.1		99.0		100.7		101.7	102.5		104.3		105.6

Water level, in feet below land-surface datum, 1944

Day	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	104.3	101.6	100.1	101.5	102.9	103.1	100.1	97.3	99.3	101.1
2	104.3	101.5	100.1	101.5	102.9	103.1	100.0	97.4	99.3	101.1
3	104.2	101.3	100.1	101.5	102.9	103.1	99.8	97.5	99.4	101.2
4	104.2	101.1	100.1	101.6	103.1	103.0	99.7	97.6	99.4	101.2
5	104.2	101.1	100.1	101.6	103.1	103.0	99.6	97.6	99.5	101.1
6	104.1	101.1	100.1	101.7	103.1	102.9	99.5	97.6	99.6	101.2
7	104.1	101.0	100.1	101.7	103.1	102.7	99.4	97.6	99.6	101.2
8	104.1	100.9	100.2	101.8	103.1	102.6	99.3	97.6	99.7	101.2
9	104.0	100.7	100.3	101.9	103.1	102.6	99.2	97.6	99.7	101.3
10	104.0	100.6	100.3	102.0	103.1	102.5	99.1	97.9	99.7	101.4
11	103.8	100.6	100.4	102.0	103.1	102.3	99.0	98.0	99.8	101.4
12	103.5	100.4	100.4	102.0	103.2	102.1	98.7	98.0	100.0	101.5
13	103.4	100.4	100.5	102.1	103.2	102.0	98.6	98.0	100.0	101.6
14	103.4	100.4	100.5	102.1	103.3	101.9	98.3	98.1	100.1	101.6
15	103.3	100.2	100.5	102.1	103.3	101.7	98.1	98.2	100.1	101.7
16	103.2	100.2	100.6	102.2	103.3	101.6	98.0	98.3	100.1	101.7
17	103.0	100.2	100.6	102.2	103.3	101.5	97.8	98.3	100.2	101.7
18	102.9	100.2	100.6	102.3	103.3	101.4	97.6	98.4	100.3	101.8
19	102.8	100.2	100.7	102.4	103.4	101.3	97.5	98.4	100.4	101.9
20	102.7	100.1	100.7	102.4	103.4	101.2	97.4	98.4	100.3	102.0
21	102.7	100.1	100.8	102.5	103.4	101.1	97.3	98.5	100.5	102.1
22	102.7	100.1	100.8	102.6	103.4	101.1	97.2	98.6	100.6	102.1
23	102.6	100.1	100.9	102.6	103.4	101.0	97.2	98.7	100.6	102.1
24	102.5	100.1	101.0	102.6	103.3	100.9	97.2	98.8	100.6	102.1
25	102.3	100.1	101.1	102.6	103.3	100.8	97.2	98.8	100.7	102.1
26	102.3	100.0	101.1	102.6	103.3	100.8	97.2	98.9	100.7	102.3
27	102.2	100.0	101.1	102.8	103.3	100.8	97.3	99.0	100.8	102.3
28	102.1	100.0	101.2	102.9	103.3	100.7	97.3	99.1	100.9	102.3
29	102.0	100.1	101.2	102.9	103.2	100.6	97.3	99.1	100.9	102.5
30	101.9	100.1	101.3	102.9	103.2	100.5	97.3	99.1	100.9	102.5
31	101.7		101.3		103.2	100.3		99.2		102.5

5--Continued.

Water level, in feet below land-surface datum, 1945

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	102.5	103.6	103.9	104.6	105.1	105.6	106.1	103.9	102.1	102.0	103.1	104.1
2	102.6	103.6	104.0	104.6	105.1	105.6	106.1	103.9	102.1	102.0	103.1	104.2
3	102.7	103.6	104.0	104.6	105.1	105.6	106.1	103.7	102.1	102.0	103.1	104.2
4	102.7	103.6	104.0	104.6	105.1	105.6	106.1	103.7	102.0	102.0	103.1	104.2
5	102.8	103.6	104.0	104.6	105.1	105.6	106.1	103.7	101.9	102.1	103.2	104.1
6	102.8	103.6	104.0	104.7	105.1	105.6	106.1	103.7	101.9	102.1	103.3	104.2
7	102.7	103.6	104.0	104.7	105.1	105.7	106.1	103.6	102.0	102.1	103.3	104.2
8	102.7	103.6	104.1	104.7	105.1	105.7	106.1	103.6	101.9	102.1	103.3	104.3
9	102.8	103.6	104.1	104.7	105.1	105.7	106.1	103.6	101.9	102.2	103.4	104.4
10	102.8	103.6	104.1	104.8	105.1	105.8	106.1	103.6	101.9	102.2	103.4	104.4
11	103.0	103.6	104.1	104.8	105.1	105.8	106.1	103.5	101.9	102.3	103.5	104.4
12	103.0	103.6	104.1	104.8	105.1	105.8	106.1	103.5	101.9	102.4	103.5	104.5
13	103.0	103.6	104.1	104.8	105.2	105.9	106.1	103.5	101.9	102.4	103.5	104.5
14	103.0	103.7	104.2	104.8	105.2	105.9	106.1	103.5	101.9	102.6	103.5	104.4
15	103.0	103.7	104.3	104.8	105.2	105.9	106.1	103.4	101.9	102.5	103.6	104.3
16	103.1	103.8	104.3	104.8	105.2	105.9	106.0	103.3	101.8	102.5	103.8	104.5
17	103.1	103.8	104.3	104.8	105.2	106.0	106.0	103.3	101.8	102.6	103.7	104.5
18	103.1	103.7	104.3	.....	105.2	106.0	106.0	103.2	101.8	102.6	103.7	104.5
19	103.1	103.8	104.4	105.0	105.3	106.0	106.0	103.1	101.8	102.7	103.8	104.3
20	103.2	103.8	104.4	105.0	105.3	105.9	105.9	103.1	101.8	102.7	103.8	104.4
21	102.9	103.8	104.4	105.0	105.3	106.0	105.7	103.1	101.8	102.7	103.8	104.4
22	103.3	103.8	104.4	105.0	105.4	106.0	105.4	103.0	101.8	102.7	103.8	104.4
23	103.3	103.9	104.4	105.0	105.4	106.0	105.3	102.9	101.9	102.8	103.9	104.4
24	103.3	103.9	104.4	104.9	105.4	106.0	105.1	102.7	101.9	102.9	104.0	104.4
25	103.2	104.0	104.4	104.9	105.5	106.0	105.0	102.6	101.9	102.9	104.0	104.2
26	103.2	104.0	104.4	104.9	105.5	106.0	104.7	102.6	101.9	102.9	104.0	104.1
27	102.9	103.9	104.5	105.0	105.5	106.0	104.6	102.5	101.9	103.0	104.0	104.1
28	103.3	103.9	104.6	105.0	105.5	106.1	104.4	102.4	101.9	103.1	104.0	104.1
29	103.3		104.6	105.0	105.5	106.1	104.2	102.4	101.9	103.1	104.1	103.9
30	103.5		104.6	105.0	105.5	106.1	104.1	102.3	102.0	103.1	104.1	103.8
31	103.5		104.6		105.6		104.1	102.2		103.1		103.7

Water level, in feet below land-surface datum, 1946

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	103.8	102.0	101.3	97.4	98.1	97.6	98.3	99.3	97.7	97.1	98.0	99.5
2	103.8	102.0	101.3	97.4	98.1	97.6	98.3	99.3	97.7	97.1	98.0	99.6
3	103.8	102.0	101.3	97.3	98.1	97.5	98.4	99.3	97.7	97.1	98.1	99.7
4	103.7	101.9	101.3	97.2	98.2	97.5	98.5	99.2	97.8	97.1	98.1	99.8
5	103.5	101.9	101.3	97.2	98.2	97.6	98.6	98.8	97.8	97.0	98.2	99.8
6	103.4	101.8	101.2	97.2	98.3	97.6	98.6	98.7	97.8	97.0	98.3	99.8
7	103.3	101.7	101.2	97.2	98.3	97.6	98.6	98.6	97.8	96.9	98.4	99.8
8	103.2	101.7	101.3	97.2	98.2	97.6	98.7	98.6	97.8	96.8	98.4	99.9
9	103.2	101.6	101.3	97.2	98.4	97.5	98.7	98.5	97.8	96.9	98.5	100.0
10	103.1	101.6	101.3	97.3	98.5	97.5	98.8	98.4	97.8	97.1	98.6	100.1
11	103.0	101.6	101.4	97.3	98.5	97.6	98.9	98.4	97.9	97.1	98.6	100.1
12	102.9	101.6	101.4	97.3	98.5	97.5	98.9	98.3	97.9	97.1	98.6	100.1
13	102.9	101.6	101.4	97.4	98.5	97.6	98.8	98.3	97.9	97.1	98.6	100.1
14	102.9	101.6	101.3	97.4	98.6	97.6	98.9	98.3	98.0	97.2	98.7	100.1
15	102.6	101.6	101.2	97.4	98.6	97.6	99.0	98.2	98.0	97.3	98.8	100.2
16	102.6	101.6	101.2	97.5	98.6	97.7	99.0	98.1	98.0	97.3	98.9	100.2
17	102.6	101.5	101.0	97.5	98.6	97.7	99.0	98.1	98.0	97.3	98.9	100.3
18	102.6	101.5	100.6	97.5	98.6	97.7	99.1	98.1	98.1	97.3	99.0	100.4
19	102.6	101.4	100.0	97.6	98.6	97.8	99.1	98.0	98.1	97.4	99.0	100.5
20	102.5	101.4	99.3	97.6	98.5	....	99.1	98.0	98.1	97.5	99.0	100.5
21	102.5	101.5	99.1	97.6	98.1	97.9	99.1	98.0	97.9	97.5	99.0	100.5
22	102.5	101.5	98.9	97.7	97.9	97.9	99.1	98.1	97.8	97.6	99.1	100.6
23	102.4	101.3	98.5	97.7	97.9	98.0	99.1	98.1	97.6	97.6	99.2	100.6
24	102.3	101.2	98.2	97.7	97.9	98.0	99.1	98.0	97.6	97.6	99.2	100.6
25	102.3	101.2	98.1	97.7	97.9	98.1	99.4	97.9	97.5	97.6	99.2	100.7
26	102.2	101.3	97.9	97.7	97.7	98.1	99.4	97.9	97.4	97.6	99.3	100.8
27	102.1	101.1	97.7	97.9	97.7	98.1	99.4	97.9	97.3	97.6	99.4	100.9
28	102.2	101.1	97.6	98.1	97.7	98.2	99.4	97.8	97.2	97.8	99.4	100.9
29	102.2		97.3	98.1	97.6	98.3	99.4	97.8	97.1	97.9	99.4	100.9
30	102.1		97.3	98.1	97.6	98.3	99.4	97.7	97.1	97.9	99.5	100.9
31	102.1		97.3		97.6		99.4	97.7		98.0		101.0

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7. City of Tallahassee. NE¼NE¼ sec. 36, T. 1 N., R. 1 W., in Lafayette Park, at Gadsden and Williams Streets, in a pumphouse. Used drilled public-supply well, diameter 6 inches, depth 211 feet. Measuring point, top of 6-inch casing, 1.20 feet above land-surface datum and 187.7 feet above mean sea level. Record begins in 1945. Automatic water-stage recorder installed on well June 13, 1945.

High and low daily water level, in feet below land-surface datum, 1945
(From recorder charts)

Day	June		Day	June	
	High	Low		High	Low
14	166.06	167.30	23	166.13	167.41
15	166.07	167.36	24	166.09	167.40
16	166.09	167.35	25	166.14	167.44
17	166.07	167.36	26	166.18	167.47
18	166.08	167.36	27	166.19	167.52
19	166.07	167.37	28	166.19	167.51
20	166.09	167.39	29	166.19	167.53
21	166.12	167.39	30	166.23	167.53
22	166.12	167.43			

High and low water level, in feet below land-surface datum, 1945
(From recorder charts)

Day	July		August		September	
	High	Low	High	Low	High	Low
1	166.25	167.53	164.07	165.40	162.45	163.76
2	166.24	167.53	164.07	165.25	162.35	163.64
3	166.22	167.52	164.03	165.31	162.35	163.64
4	166.24	167.53	164.00	165.33	162.26	163.57
5	166.33	167.60	163.97	165.28	162.23	163.56
6	166.26	167.57	163.94	165.23	162.30	163.59
7	166.26	167.57	163.89	165.19	162.27	163.57
8	166.27	167.59	163.88	165.16	162.22	163.54
9	166.26	167.58	163.86	165.14	162.21	163.47
10	166.28	.....	163.85	165.12	162.18	163.46
11	.....	.....	163.80	165.09	162.14	163.46
12	166.25	167.54	163.76	165.06	162.17	163.47
13	166.23	167.54	163.75	165.05	162.19	163.46
14	166.20	167.46	163.72	165.01	162.18	163.51
15	166.18	167.48	163.68	164.94	162.20	163.50
16	166.15	167.42	163.64	164.90	161.98	163.31
17	166.13	167.42	163.54	164.84	161.95	.....
18	166.08	167.35	163.51	164.80	.....	.....
19	166.04	167.34	163.99	164.64	.....	.....
20	166.00	167.25	163.35	164.66	.....	.....
21	165.90	167.10	163.30	164.60	162.05	163.41
22	165.63	166.86	163.17	164.49	162.07	163.42
23	165.51	166.75	163.04	164.36	162.12	163.38
24	165.32	166.56	162.96	164.26	162.10	163.42
25	165.04	166.41	162.86	164.17	162.12	163.43
26	164.96	166.08	162.75	164.00	162.13	163.46
27	164.63	165.95	162.74	164.03	162.14	163.44
28	164.45	165.77	162.67	163.96	162.14	163.45
29	164.44	165.67	162.63	163.91	162.16	163.47
30	164.30	165.60	162.58	163.88	162.20	163.50
31	164.17	165.50	162.60	163.84		

High and low water level, in feet below land-surface datum, 1945
(From recorder charts)

Day	October		November		December	
	High	Low	High	Low	High	Low
1	162.24	163.59	163.25	.....	164.44	165.69
2	162.25	163.58	.....	.....	164.43	165.69
3	162.27	163.63	.....	.....	164.35	165.71
4	162.31	163.65	.....	.....	164.19	165.60
5	162.33	163.67	.....	.....	164.34	165.68
6	162.30	163.64	.....	.....	164.45	165.74
7	162.35	163.66	163.79	165.12	164.48	165.75
8	162.40	163.73	163.79	165.10	164.55	165.85
9	.....	.....	163.83	165.16	164.54	165.77

7--Continued.

High and low water level, in feet below land-surface datum, 1945
(From recorder charts)

Day	October		November		December	
	High	Low	High	Low	High	Low
10	162.53	163.79	163.83	165.21	164.50	165.87
11	162.51	163.83	163.94	165.21	164.66	165.97
12	162.59	163.90	163.94	165.24	164.67	165.95
13	162.60	163.91	.....	.....	164.57	165.87
14	162.64	163.94	.....	.....	164.64	165.92
15	162.64	164.00	163.96	165.21	164.51	165.89
16	162.75	164.07	163.95	165.26	164.70	166.00
17	162.79	164.16	163.88	165.25	164.68	165.96
18	162.87	164.22	163.91	165.24	164.52	165.79
19	162.90	164.27	163.93	165.23	164.44	165.85
20	162.93	164.27	163.95	165.31	164.60	165.90
21	162.97	164.32	163.98	165.30	164.59	165.85
22	162.98	164.30	164.00	165.36	.....	.....
23	163.01	164.37	164.04	165.39	.....	.....
24	163.11	164.43	164.14	165.43	.....	.....
25	.....	.....	164.14	165.46	.....	.....
26	163.18	164.46	164.18	165.51	.....	.....
27	163.20	164.52	164.18	165.52	.....	.....
28	163.24	164.53	164.19	165.53	.....	.....
29	163.23	164.56	164.24	165.58	.....	.....
30	163.21	164.54	164.29	165.61	.....	.....
31	163.21	164.55			.....	.....

High and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		April		May		June	
	High	Low	High	Low	High	Low	High	Low
1	.....	.....	.....	.....	158.16	159.58	157.68	159.02
2	.....	.....	.....	.....	158.19	159.55	157.64	158.99
3	.....	.....	157.64	159.02	158.18	159.56	157.65	158.97
4	.....	.....	157.61	158.98	158.23	159.60	157.61	158.98
5	.....	.....	157.61	159.03	158.32	159.70	157.67	159.03
6	.....	.....	157.59	158.95	158.39	159.78	157.70	159.06
7	.....	.....	157.57	158.89	158.38	159.73	157.66	159.01
8	163.36	164.66	157.57	158.92	158.30	159.71	157.64	158.98
9	163.30	164.60	157.57	158.97	158.41	159.82	157.63	158.97
10	163.26	164.55	.....	.....	158.47	159.84	157.66	159.03
11	163.15	164.49	157.43	158.79	158.45	159.83	157.65	159.08
12	163.11	164.47	157.36	158.81	158.48	159.85	157.64	159.01
13	163.11	164.37	157.47	158.86	158.54	.....	157.65	159.07
14	163.03	164.33	157.50	158.86	.....	.....	157.72	159.12
15	162.83	164.20	157.51	158.91	.....	.....	157.75	159.16
16	.....	.....	157.48	158.86	.....	.....	157.80	159.15
17	.....	.....	157.46	158.90	.....	.....	157.80	159.16
18	.....	.....	157.66	159.00	.....	.....	157.82	159.23
19	.....	.....	157.65	159.03	.....	.....	157.88	159.25
20	.....	.....	157.68	159.05	158.38	159.79	157.97	159.32
21	.....	.....	157.72	159.10	158.19	159.61	158.00	159.40
22	.....	.....	157.82	159.17	158.07	159.42	158.04	159.38
23	.....	.....	157.80	159.17	158.05	.....	.....	.....
24	.....	.....	157.79	159.15	.....	.....	158.08	159.46
25	.....	.....	157.75	159.07	.....	.....	158.08	159.52
26	.....	.....	157.77	159.22	.....	.....	158.15	159.59
27	.....	.....	157.97	159.37	157.84	159.14	158.22	159.61
28	.....	.....	158.07	159.42	157.80	159.17	158.26	159.64
29	.....	.....	158.10	159.49	157.78	159.15	.....	.....
30	.....	.....	158.12	159.51	157.74	159.16	.....	.....
31	.....	.....			157.74	159.11		

7--Continued.

High and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September	
	High	Low	High	Low	High	Low
1	158.40	159.75	.....	.....	157.92	157.97
2	158.40	159.79	.....	.....	157.90	159.25
3	158.46	159.86	.....	.....	.....	.....
4	158.56	159.95	.....	.....	.....	.....
5	158.63	160.00	.....	.....	.....	.....
6	158.68	160.06	158.80	160.13	.....	.....
7	158.75	160.12	158.69	160.05	.....	.....
8	158.80	160.12	158.67	160.00	.....	.....
9	158.80	160.18	158.59	159.95	158.03	159.37
10	158.86	160.26	158.55	159.91	158.01	159.36
11	158.88	160.25	158.48	159.75	158.03	159.37
12	.....	.....	158.45	159.85	158.02	159.40
13	.....	.....	158.43	159.80	158.07	159.44
14	.....	.....	158.43	159.81	158.15	159.50
15	159.07	160.41	158.38	159.74	158.16	158.23
16	159.04	160.41	158.33	159.66	158.17	159.48
17	159.07	160.45	158.26	159.60	.....	.....
18	159.11	160.48	158.22	.....	158.23	159.54
19	159.16	160.49	158.15	159.50	158.18	159.51
20	159.20	160.54	158.15	159.52	158.14	159.46
21	159.22	.....	158.15	159.52	158.17	159.43
22	159.22	160.54	158.18	159.53	157.91	159.17
23	159.22	160.63	158.13	159.50	157.72	159.13
24	159.30	160.72	158.08	159.44	157.58	159.07
25	159.33	160.71	158.07	158.14	157.48	158.97
26	159.30	160.69	158.07	159.54	157.48	158.83
27	159.37	160.74	158.02	159.37	157.46	158.81
28	159.40	160.70	157.98	159.34	157.37	158.73
29	.....	.....	157.94	159.27	157.29	158.60
30	.....	.....	157.89	159.23	.....	.....
31	.....	.....	157.88	159.25		

High and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	October		November		December	
	High	Low	High	Low	High	Low
1	.....	.....	158.07	159.44	159.56	160.86
2	.....	.....	158.07	159.41	159.66	161.12
3	.....	.....	158.17	159.56	159.82	161.16
4	.....	.....	158.07	159.68	159.84	161.22
5	.....	.....	158.34	159.70	159.87	161.23
6	.....	.....	158.40	159.78	159.87	161.25
7	.....	.....	159.40	159.76	159.95	161.33
8	156.89	158.33	159.43	159.82	160.02	161.35
9	157.06	158.43	158.52	159.90	160.07	161.43
10	157.17	158.57	158.57	159.89	160.05	161.42
11	157.24	158.62	158.63	159.97	160.07	161.41
12	157.23	158.65	158.73	160.08	160.07	161.41
13	157.37	158.68	158.78	160.12	160.12	161.53
14	157.38	158.73	158.82	.....	160.21	161.56
15	157.42	158.75	.....	.....	160.27	161.58
16	157.43	158.77	.....	.....	160.32	161.70
17	157.42	158.75	.....	.....	.....	.....
18	157.42	158.78	.....	.....	.....	.....
19	.....	.....	159.07	160.46	.....	.....
20	.....	.....	159.08	160.46	.....	.....
21	.....	.....	159.10	160.50	.....	.....
22	157.67	159.07	159.19	160.57	.....	.....
23	157.72	159.10	159.28	160.66	.....	.....
24	157.72	159.10	159.29	160.57	160.77	162.12
25	157.69	159.06	159.33	160.77	160.82	160.92
26	157.74	159.16	159.38	160.76	160.91	162.25
27	157.91	159.28	159.46	160.80	160.93	162.25
28	158.01	159.35	159.48	160.82	160.97	162.30
29	158.02	159.37	159.50	160.88	160.97	161.06
30	158.03	159.40	159.53	160.91	161.07	162.40
31	158.08	159.43			161.12	162.45

66. U. S. Dept. of Justice, Bureau of Prisons. At Federal Correctional institution, 4 miles east of Tallahassee, sec, 34, T. 1 E. Used drilled public-supply well, diameter 12 inches, depth 316 feet, cased to 136.3 feet. Measuring point, top of 12-inch casing, 0.5 foot above land-surface datum and 169.21 feet above mean sea level. Measurements supplied by Alfred Ogram, warden, Federal correctional institution.

Water level, in feet below land-surface datum, 1946

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	144.7	142.8	142.1	138.9	139.1	138.8	138.8	139.7	138.5	137.9	138.6	140.0
2	144.6	142.8	142.1	138.9	139.2	138.8	138.8	139.6	138.5	137.8	138.6	140.1
3	144.5	142.8	142.1	138.8	139.2	138.8	138.9	139.6	138.4	137.8	138.6	140.2
4	144.3	142.7	142.2	138.7	139.3	138.7	139.0	139.5	138.4	137.9	138.6	140.2
5	144.2	142.6	142.2	138.7	139.3	138.7	139.0	139.4	138.4	137.9	138.7	140.2
6	144.2	142.6	142.2	138.9	139.2	138.8	139.0	139.3	138.4	137.9	138.6	140.3
7	144.1	142.5	142.3	138.8	139.2	138.8	139.0	139.2	138.5	137.8	138.8	140.3
8	144.0	142.5	142.4	138.8	139.2	138.8	139.0	139.1	138.5	137.7	138.9	140.3
9	143.9	142.4	142.4	138.7	139.3	138.8	139.1	139.0	138.6	137.8	139.0	140.3
10	143.8	142.4	142.4	138.6	139.3	138.8	139.2	139.0	138.6	137.9	139.1	140.3
11	143.7	142.5	142.4	138.6	139.4	138.9	139.3	139.0	138.6	137.9	139.1	140.4
12	143.7	142.4	142.5	138.7	139.4	138.9	139.3	139.0	138.6	137.9	139.3	140.5
13	143.7	142.3	142.5	138.7	139.5	138.9	139.3	138.9	138.6	138.0	139.3	140.5
14	143.6	142.3	142.5	138.7	139.4	138.8	139.2	138.9	138.6	138.0	139.3	140.6
15	143.5	142.4	142.5	138.8	139.3	138.8	139.3	138.9	138.7	138.0	139.4	140.7
16	143.5	142.4	142.4	138.8	139.4	138.8	139.4	138.9	138.7	137.9	139.5	140.7
17	143.5	142.5	142.4	138.8	139.5	138.7	139.4	138.8	138.7	138.0	139.5	140.7
18	143.4	142.3	142.3	138.8	139.5	138.5	139.5	138.8	138.8	138.0	139.5	140.8
19	143.4	142.1	142.2	138.8	139.4	138.4	139.5	138.7	138.7	138.0	139.5	140.9
20	143.4	142.2	140.9	138.8	138.4	138.4	139.6	138.7	138.6	138.0	139.6	141.0
21	143.4	142.2	140.7	138.8	139.3	138.4	139.6	138.7	138.6	138.1	139.7	141.1
22	143.4	142.2	140.2	138.9	139.2	138.4	139.6	138.7	138.6	138.2	139.7	141.2
23	143.2	142.2	140.2	138.9	139.2	138.4	139.6	138.7	138.6	138.2	139.8	141.3
24	143.0	142.2	140.0	138.9	139.2	138.5	139.7	138.7	138.5	138.2	139.8	141.3
25	143.0	142.1	139.8	138.9	139.2	138.5	139.7	138.7	138.1	139.2	140.0	141.3
26	143.0	142.1	139.6	138.9	139.2	138.6	139.7	138.7	138.0	138.2	140.0	141.3
27	143.0	142.1	139.5	138.9	139.2	138.7	138.8	138.7	137.9	138.3	140.0	141.4
28	143.0	142.1	139.2	138.9	139.1	138.8	138.8	138.6	137.9	138.3	140.0	141.4
29	142.9		138.9	138.9	139.0	138.8	138.8	138.6	137.9	138.4	140.0	141.4
30	142.8		138.9	139.0	138.9	138.8	138.8	138.5	137.9	138.4	140.0	141.4
31	142.8		138.9		138.8		.....	138.5		138.5		141.5

Manatee County

92 (*987, p. 36; 1017, p. 154; 1024, p. 63). Ray E. Anderson. In Waterbury, in SE¼SE¼ sec. 9, T. 35 S., R. 20 E., on west side of State Highway 161. Automatic water-stage recorder maintained on well since Feb. 4, 1945.

High and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	37.58	37.74	37.57	37.67	37.79	38.02	37.69	37.87	38.79	38.89	38.64	38.73
2	37.68	37.74	37.67	37.77	37.94	38.07	37.77	37.88	38.76	38.86	38.58	38.66
3	37.68	37.75	37.72	37.79	38.03	38.11	37.75	37.84	38.75	38.82	38.59	38.62
4	37.60	37.73	37.72	37.80	38.03	38.11	.....	.....	38.77	38.81	38.56	38.59
5	37.43	37.63	37.69	37.77	37.98	38.08	37.80	37.85	38.81	38.91	38.58	38.64
6	37.47	37.52	37.65	37.72	37.97	38.05	37.81	37.84	38.91	38.98	38.64	38.67
7	37.51	37.56	37.66	37.68	37.98	38.08	37.80	37.84	38.90	38.96	38.60	38.67
8	37.50	37.54	37.68	37.71	37.95	37.99	37.80	37.87	38.87	38.95	38.57	38.63
9	37.52	37.53	37.60	37.69	37.90	37.95	37.83	37.92	38.95	39.06	38.54	38.62
10	37.48	37.53	37.53	37.63	37.89	37.94	37.86	37.98	39.01	39.11	38.55	38.63
11	37.47	37.53	37.61	37.80	37.91	37.98	37.92	38.03	39.02	39.11	38.52	38.63
12	37.49	37.58	37.76	37.87	37.88	37.96	37.97	38.07	39.01	39.10	38.45	38.55
13	37.50	37.60	37.70	37.87	37.78	37.92	37.96	38.19	39.02	39.15	38.41	38.53
14	37.46	37.61	37.68	37.89	37.67	37.82	38.13	38.26	39.09	39.17	38.43	38.52
15	37.40	37.52	37.90	38.01	37.63	37.75	38.20	38.30	39.08	39.17	38.40	38.50
16	37.42	37.50	37.90	38.01	37.63	37.72	38.21	38.30	39.08	38.17	38.38	38.45
17	37.48	37.60	37.88	37.97	37.65	37.73	38.24	38.32	39.03	39.13	.....	.....
18	37.57	37.65	37.91	37.97	37.67	37.73	38.31	38.42	39.02	39.09	38.27	38.34
19	37.52	37.62	37.85	37.93	37.58	37.66	38.42	38.47	39.06	39.11	38.27	38.31
20	37.44	37.55	37.86	38.01	37.57	37.62	38.47	38.52	39.06	39.09	38.26	38.29

92--Continued.

High and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
21	37.46	37.52	38.03	38.07	37.62	37.65	38.52	38.60	39.03	39.08	38.25	38.26
22	37.52	37.58	37.98	38.06	37.63	37.67	38.60	38.64	38.99	39.03	38.25	38.29
23	37.58	37.63	37.88	37.97	37.67	37.72	38.56	38.62	38.99	39.03	38.22	38.28
24	37.57	37.63	37.84	37.92	37.67	37.71	38.53	38.57	38.97	39.03	38.14	38.23
25	37.61	37.67	37.93	38.06	37.68	37.74	38.34	38.55	38.87	38.98	38.12	38.23
26	37.55	37.62	37.93	38.03	37.65	37.69	38.41	38.58	38.82	38.88	38.12	38.25
27	37.59	37.68	37.78	37.93	37.62	37.67	38.58	38.76	38.79	38.88	38.05	38.22
28	37.65	37.73	37.76	37.94	37.55	37.63	38.74	38.86	38.76	38.86	38.07	38.18
29	37.63	37.73			37.52	37.60	38.78	38.89	38.71	38.82	38.03	38.13
30	37.57	37.70			37.52	37.61	38.76	38.89	38.70	38.83	37.98	38.06
31	37.48	37.62			37.54	37.76			38.69	38.81		

High and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	37.91	37.99	37.58	37.64	36.52	36.62	36.25	36.27	36.48	36.63	37.30	37.38
2	37.85	37.91	37.57	37.62	36.52	36.57	36.29	36.32	36.47	36.60	37.34	37.53
3	37.85	37.87	37.57	37.62	36.52	36.59	36.28	36.34	36.60	36.73	37.52	37.58
4	37.86	37.89	37.57	37.60	36.52	36.58	36.25	36.33	36.73	36.82	37.53	37.63
5	37.88	37.91	37.54	37.59	36.54	36.60	36.25	36.33	36.78	36.85	37.48	37.62
6	37.87	37.92	37.50	37.57	36.56	36.63	36.20	36.30	36.77	36.87	37.47	37.56
7	37.86	37.94	37.44	37.54	36.53	36.62	35.67	36.13	36.78	36.88	37.52	37.60
8	37.87	37.95	37.42	37.51	36.55	36.63	35.69	36.09	36.83	36.91	37.55	37.65
9	37.82	37.89	37.35	37.47	36.57	36.67	36.05	36.16	36.83	36.93	37.58	37.68
10	37.80	37.89	37.35	37.44	36.56	36.67	36.12	36.26	36.86	36.95	37.52	37.66
11	37.81	37.88	37.30	37.40	36.49	36.62	36.20	36.27	36.90	36.96	37.46	37.57
12	37.79	37.87	37.28	37.39	36.46	36.55	36.19	36.27	36.87	36.97	37.42	37.47
13	37.76	37.89	37.26	37.35	36.47	36.53	36.23	36.27	36.87	36.93	37.42	37.44
14	37.79	37.87	37.25	37.31	36.49	36.54	36.25	36.31	36.90	36.93	37.39	37.42
15	37.77	37.87	37.23	37.28	36.44	36.55	36.27	36.32	36.93	37.03	37.42	37.47
16	37.76	37.83	37.21	37.25	36.45	36.48	36.26	36.32	37.03	37.16	.....	.....
17	37.72	37.77	37.13	37.21	36.47	36.50	36.22	36.28	37.14	37.21	.....	.....
18	37.70	37.75	37.03	37.12	36.50	36.56	36.22	36.28	37.12	37.19	.....	.....
19	37.73	37.76	36.95	37.03	36.42	36.52	36.22	36.36	37.12	37.20	.....	.....
20	37.70	37.77	36.90	36.99	36.34	36.45	36.34	36.43	37.11	37.19	.....	.....
21	37.68	37.72	36.87	36.96	36.34	36.44	36.37	36.44	37.12	37.23	.....	.....
22	37.63	37.68	36.83	36.94	36.35	36.45	36.40	36.48	37.18	38.28	.....	.....
23	37.63	37.74	36.82	36.92	36.38	36.49	36.41	36.48	37.22	37.31	.....	.....
24	37.70	37.80	36.77	36.87	36.40	36.51	36.40	36.48	37.24	37.32	.....	.....
25	37.64	37.77	36.74	36.84	36.35	36.47	36.34	36.48	37.28	37.35	.....	.....
26	37.55	37.70	36.68	36.82	36.27	36.39	36.38	36.52	37.31	37.37	.....	.....
27	37.54	37.64	36.65	36.74	36.31	36.36	36.52	36.64	37.33	37.39	.....	.....
28	37.55	37.67	36.61	36.69	36.28	36.36	36.64	36.68	37.38	37.42	.....	.....
29	37.60	37.68	36.58	36.65	36.24	36.34	36.64	36.70	36.39	37.42	.....	.....
30	37.55	37.62	36.54	36.60	36.23	36.28	36.66	36.68	37.37	37.42	.....	.....
31	37.57	37.61	36.56	36.59			36.63	36.68			.....	.....

Marion County

5 (*817, p. 32; 840, p. 52; 845, p. 50; 886, p. 67; 907, p. 25; 937, p. 19; 945, p. 18; 987, p. 37; 1017, p. 154; 1024, p. 64). SE¼SE¼ sec. 15, T. 15 S., R. 23 E., about 8 miles east of Ocala, on east side of Oklawaha River and north side of road that crosses river at Sharpes Ferry. Measuring point to July 9, 1946, top of 6-inch casing, 42.53 feet above mean sea level and 3.00 feet above land-surface datum; measuring point beginning July 10, 1946, top of reducer on well, 42.38 feet above mean sea level and 2.85 feet above land-surface datum.

5--Continued.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	10.3	Mar. 30	10.9	July 20	9.95	Oct. 19	12.25
12	10.2	Apr. 6	10.6	27	10.03	26	12.45
19	10.2	13	10.5	Aug. 3	10.25	Nov. 2	12.55
26	10.2	20	10.3	10	10.85	4	12.31
Feb. 2	10.0	27	10.2	17	10.77	9	12.27
9	10.2	May 4	10.1	24	11.19	16	12.03
16	9.9	11	10.0	Sept. 7	11.35	23	12.05
23	10.0	18	10.0	14	11.45	30	11.93
Mar. 2	10.1	25	10.0	21	11.45	Dec. 7	11.69
9	10.5	June 8	9.9	28	11.55	14	11.67
16	10.8	July 10	10.09	Oct. 5	11.65	21	11.43
23	10.7	13	9.73	12	12.05	28	11.25

Nassau County

2 (*907, p. 17; 937, p. 14; 945, p. 19; 987, p. 37; 1017, p. 155; 1024, p. 65). G. C. Gerbing. In Amelia City, 5.5 miles south of Fernandina, at owner's residence, in southeast corner of pumphouse.

Water levels, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Aug. 14	38.2	Oct. 1	38.1	Dec. 18	37.9
Sept. 5	38.2	Nov. 13	39.9		

8 (*907, p. 17; 937, p. 14; 945, p. 19; 987, p. 37; 1017, p. 155; 1024, p. 65). Charles Pelot. Near SE. corner of NE¼ sec. 1, T. 1 N., R. 28 E., about 400 feet from ocean, in rear of beach cottages, 1.1 miles south of Franklintown, 8.9 miles south of Fernandina.

Water level, in feet above land-surface datum, 1946

Aug. 14	37.7	Oct. 1	39.0	Dec. 17	37.9
Sept. 5	39.0	Nov. 13	39.2		

12 (*1024, p. 65). J. W. Sheffield. 1,600 feet east of NW. corner sec. 4, T. 2 N., R. 28 E., about 400 feet east of State Highway 13, on north side of dirt street. Record begins in 1939. Water levels, in feet above land-surface datum, 1946: Jan. 19, 17.8; Oct. 1, 20.9; Nov. 13, 28.7; Dec. 17, 20.9.

23 (*907, p. 17; 937, p. 14; 945, p. 19; 987, p. 37; 1017, p. 155; 1024, p. 65). Florida Forest and Park Service. About 1,000 feet northwest of end of south jetty to St. Marys Entrance, 2.6 miles north of Fernandina.

Water level, in feet below land-surface datum, 1946

June 19	29.3	Sept. 5	31.5	Nov. 13	32.9
Aug. 14	30.4	Oct. 2	30.7	Dec. 17	30.2

27 (*1024, p. 65). Judge Fishler and others. In Fernandina, 200 feet north of Atlantic Boulevard, on east side of North 17th Street. Record begins in 1939.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 21	10.1	Aug. 14	10.6	Oct. 2	5.0	Dec. 18	5.5
June 19	4.4	Sept. 5	7.0	Nov. 13	11.3		

34 (*907, p. 17; 937, p. 15; 945, p. 19; 987, p. 37; 1017, p. 155; 1024, p. 66). W. L. Hardee. At Hardee Dock, about 150 feet east of Amelia River, and 0.3 mile southwest of Fernandina.

Water level, in feet with reference to land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	-1.42	Nov. 6	+4.2	Nov. 21	+20.4	Dec. 7	+3.3
May 21	+14.6	12	+18.1	25	+8.8	17	+2.5
Aug. 14	+19.8	13	+24.0	Dec. 5	+2.5	23	+2.6
Oct. 2	+2.1	15	+20.4				

44 (*907, p. 17; 937, p. 15; 945, p. 19; 987, p. 37; 1017, p. 156; 1024, p. 66). Seaboard Air Line Railway. At Seaboard Railway station, at Yulee, south of pumphouse near elevated tank. Measuring point to May 22, 1946, top of 6-inch coupling on surface casing, 36.4 feet above mean sea level and 1.4 feet above land-surface datum; measuring point beginning May 23, 1946, top of 3-inch tee, 37.41 feet above mean sea level and 2.6 feet above land-surface datum.

Water level, in feet above land-surface datum, 1946

Jan. 19	18.5	June 19	16.3	Sept. 5	18.7	Nov. 13	20.0
May 23	18.8	Aug. 14	18.9	Oct. 1	19.5	Dec. 17	19.6

50 (*907, p. 18; 937, p. 15; 945, p. 19; 987, p. 37; 1017, p. 156; 1024, p. 66). C. J. McKendree. SW¼SE¼ sec. 4, T. 2 N., R. 26 E., about 100 feet south of Seaboard Air Line Railway, in rear of owner's residence, 0.6 mile east of Italia.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Aug. 14	38.1	Oct. 2	38.4	Dec. 17	32.4
Sept. 5	38.7	Nov. 13	32.8		

51 (*907, p. 18; 937, p. 15; 945, p. 19; 987, p. 37; 1017, p. 156; 1024, p. 66). Drew Sauls. In Callahan, near SW. corner NW¼ sec. 29, T. 2 N., R. 25 E.

Water level, in feet above land-surface datum, 1946

June 19	38.8	Sept. 5	40.5	Nov. 13	39.7
Aug. 14	39.5	Oct. 2	40.4	Dec. 17	39.4

52 (*907, p. 18; 937, p. 15; 945, p. 19; 987, p. 38; 1017, p. 156; 1024, p. 66). Civilian Conservation Corps. NW¼SW¼ sec. 15, T. 3 N., R. 24 E., on site of former Civilian Conservation Corps camp, about 500 feet east of U. S. Highway 1, 1.4 miles southeast of Hilliard. Water levels, in feet below land-surface datum, 1946: Oct. 1, 1.08; Nov. 13, 1.68; Dec. 17, 1.95.

55 (*1017, p. 156; 1024, p. 66). L. R. Church. In O'Neil, about 500 feet southeast of NE. corner sec. 27, T. 2 N., R. 28 E., between Seaboard Air Line Railway and State Highway 13, at owner's residence.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 19	29.6	June 19	28.9	Sept. 5	30.7	Nov. 13	32.7
May 23	31.4	Aug. 14	30.9	Oct. 1	30.4	Dec. 17	30.4

64 (*1024, p. 66). Mrs. D. C. Henderson. In Hilliard, in SW¼SE¼ sec. 8, T. 3 N., R. 24 E., on south side of a dirt street, about 500 feet west of a brick schoolhouse. Automatic water-stage recorder maintained on well since June 19, 1944.

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		June	
	High	Low	High	Low	High	Low
1	20.01	20.18	19.46	19.66	.....	.....
2	20.15	20.25	19.63	19.73	.....	.....
3	20.15	20.25	19.73	19.82	.....	.....

64--Continued.

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		June	
	High	Low	High	Low	High	Low
4	20.10	20.23	19.78	19.84	.....	.....
5	19.87	20.12	19.73	19.82	a 20.02	.....
6	19.92	20.09	19.63	19.75	20.06	20.10
7	19.94	20.02	19.44	19.64	20.04	20.10
8	19.91	19.98	19.53	19.59	20.03	20.09
9	19.88	19.93	19.59	19.62	20.02	20.10
10	19.85	19.90	19.40	19.59	20.05	20.15
11	.....	.....	19.20	19.40	20.08	20.18
12	.....	.....	19.40	19.64	20.01	20.12
13	.....	.....	.....	.....	20.03	20.13
14	.....	.....	.....	.....	20.10	20.18
15	.....	.....	.....	.....	20.11	20.22
16	.....	.....	.....	.....	20.14	20.22
17	.....	.....	.....	.....	20.12	20.15
18	.....	.....	.....	.....	20.06	20.13
19	.....	.....	.....	.....	a 20.10	.....
20	19.72	19.82	.....	.....	20.11	20.14
21	19.61	19.75	.....	.....	.....	.....
22	19.62	19.75	.....	.....	.....	.....
23	19.74	19.81	.....	.....	.....	.....
24	19.78	19.84	.....	.....	.....	.....
25	19.61	19.77	.....	.....	.....	.....
26	19.68	19.77	.....	.....	.....	.....
27	19.64	19.66	.....	.....	.....	.....
28	19.67	19.85	.....	.....	.....	.....
29	19.80	19.88			.....	.....
30	19.78	19.88			.....	.....
31	19.62	19.84				

a Observed water level.

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	19.20	19.25	19.10	19.19	19.16	19.25	19.40	19.48
2	.....	.....	19.22	19.25	19.19	19.24	18.96	19.16	19.45	19.76
3	.....	.....	19.20	19.24	19.23	19.27	19.04	19.22	19.71	19.78
4	.....	.....	19.20	19.24	19.23	19.28	19.22	19.32	19.70	19.79
5	.....	.....	19.23	19.30	19.23	19.29	19.25	19.33	19.63	19.77
6	.....	.....	19.23	19.32	19.18	19.26	19.28	19.35	19.62	19.74
7	.....	.....	19.23	19.30	18.90	19.18	19.16	19.33	19.67	19.80
8	.....	.....	19.23	19.32	18.47	18.90	19.15	19.25	19.72	19.84
9	.....	.....	19.24	19.35	18.79	18.95	19.23	19.30	19.75	19.86
10	.....	.....	19.21	19.30	18.93	19.08	19.25	19.31	19.65	19.81
11	.....	.....	19.13	19.24	19.03	19.10	19.24	19.33	19.58	19.70
12	.....	.....	19.08	19.14	19.03	19.18	19.29	19.33	19.54	19.61
13	.....	.....	19.11	19.17	19.17	19.25	19.29	19.35	19.54	19.57
14	.....	.....	19.17	19.20	19.20	19.26	19.29	19.33	19.54	19.59
15	.....	.....	19.11	19.22	19.23	19.25	19.33	19.42	19.58	19.64
16	a19.78	.....	19.10	19.12	19.17	19.25	19.42	19.52	19.63	19.69
17	19.59	19.71	19.10	19.14	19.08	19.18	19.46	19.53	19.71	19.75
18	19.47	19.59	19.14	19.20	19.04	19.13	19.43	19.54	19.67	19.81
19	19.42	19.49	19.07	19.17	19.09	19.19	19.47	19.55	19.80	19.87
20	19.43	19.51	19.00	19.10	19.15	19.24	19.39	19.51	19.65	19.81
21	19.43	19.50	18.99	19.08	19.18	19.28	19.37	19.46	19.61	19.94
22	19.40	19.50	19.05	19.13	19.23	19.31	19.37	19.48	19.94	20.07
23	19.36	19.48	19.11	19.19	19.21	19.29	19.43	19.53	19.94	20.06
24	19.33	19.43	19.10	19.22	19.16	19.25	18.37	19.53	18.84	19.98
25	19.30	19.38	19.06	19.17	19.01	19.18	19.40	19.48	18.89	19.99
26	19.26	19.37	19.05	19.09	19.05	19.21	19.40	19.49	19.94	20.00
27	19.25	19.32	19.11	19.15	19 21	19.34	19.43	19.52	19.93	20.00
28	19.23	19.29	19.09	19.16	19.32	19.35	19.53	19.56	19.85	19.95
29	19.20	19.28	19.06	19.13	19.30	19.36	18.51	19.55	19.81	19.89
30	19.13	19.20	19.03	19.07	19.28	19.33	19.47	19.53	19.80	20.00
31	19.13	19.20			19.24	19.32			19.97	20.03

a Observed water level.

Okaloosa County

3. Okaloosa County. In Fort Walton, in NW¼SW¼ sec. 13, T. 2 S., R. 24 W., behind new schoolhouse, 20 feet east of pumphouse. Used drilled public-supply well, diameter 6 inches, depth 800 feet, cased to 500 feet. Measuring point, top of 6-inch tee, 1.27 feet above land-surface datum and 13.25 feet above mean sea level. Water level, in feet above land-surface datum, 1946: Nov. 19, 18.4.

10. U. S. Forrest Service. SW¼NW¼ sec. 6, T. 1 S., R. 22 W., 0.75 mile west of Niceville, on east side of State Highway 285, in a pumphouse. Used drilled public-supply well, diameter 6 inches, depth 524 feet, cased to 370 feet. Measuring point, top of 6-inch casing, 1.0 foot above land-surface datum and 59.0 feet above mean sea level. Water level, in feet below land-surface datum, 1946: Oct. 23, 10.72.

Orange County

47 (*987, p. 38; 1017, p. 157; 1024, p. 68). Well 47 in Water-Supply Paper 773-C. Orange County. Near SE. corner NE¼NE¼ sec 26, T. 22 S., R. 28 E., at edge of sink, on west side of State Highway 413, about 1 mile northwest of Orlo Vista.

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	....	....	2.55	2.65	2.44	2.57	3.57	3.65	4.49	4.53	4.21	4.27
2	....	....	2.65	2.74	2.48	2.67	3.62	3.66	4.23	4.53	3.98	4.23
3	....	....	2.72	2.76	2.64	2.81	3.62	3.65	4.05	4.28	3.84	3.98
4	....	....	2.75	2.78	2.81	2.87	3.65	3.68	3.81	4.04	3.82	3.88
5	....	....	2.76	2.78	2.87	2.95	3.73	3.77	3.86	3.98	3.88	4.00
6	....	....	2.75	2.80	2.94	3.00	3.76	3.78	3.98	4.07	4.00	4.08
7	....	....	2.74	2.80	3.00	3.06	3.77	3.82	4.03	4.13	4.08	4.13
8	....	....	2.80	2.82	3.06	3.10	3.81	3.85	4.04	4.11	4.11	4.15
9	....	....	2.77	2.81	3.09	3.15	3.84	3.90	4.10	4.20	4.14	4.21
10	....	....	2.75	2.83	3.14	3.20	3.88	3.96	4.19	4.25	4.19	4.25
11	....	....	2.83	2.94	3.20	3.28	3.93	3.98	4.22	4.28	4.23	4.26
12	....	....	2.93	2.97	3.26	3.41	3.95	4.04	4.24	4.28	4.19	4.25
13	....	....	2.90	2.97	3.36	3.41	4.00	4.08	4.26	4.32	4.16	4.25
14	....	....	2.91	3.04	3.16	3.32	4.06	4.12	4.22	4.29	4.15	4.20
15	....	....	3.03	3.10	3.06	3.15	4.07	4.14	4.23	4.26	4.17	4.21
16	....	....	3.05	3.10	3.07	3.18	4.09	4.14	4.25	4.30	4.16	4.21
17	....	....	3.04	3.08	3.15	3.21	4.06	4.17	4.25	4.29	4.15	4.17
18	....	....	3.07	3.10	3.19	3.22	4.10	4.15	4.23	4.27	4.16	4.20
19	....	....	3.04	3.10	3.21	3.26	4.14	4.23	4.31	4.34	4.19	4.23
20	....	....	3.05	3.14	3.25	3.31	4.17	4.25	3.96	4.33	4.19	4.26
21	....	....	3.14	3.16	3.30	3.35	4.20	4.23	3.81	3.95	4.18	4.21
22	....	....	3.13	3.15	3.35	3.39	4.23	4.32	3.88	4.02	3.77	4.22
23	....	....	3.10	3.12	3.40	3.44	4.23	4.30	3.97	4.02	3.51	3.76
24	....	....	3.07	3.18	3.44	3.49	4.24	4.32	4.02	4.08	3.48	3.67
25	....	....	3.18	3.26	3.46	3.49	4.24	4.31	4.03	4.07	3.67	3.89
26	....	....	3.24	3.26	3.47	3.50	4.22	4.34	4.02	4.07	3.91	3.97
27	....	....	3.13	3.25	3.50	3.53	4.31	4.33	4.05	4.10	3.95	4.01
28	2.14	2.34	2.47	3.16	3.46	3.53	4.39	4.45	4.08	4.13	3.93	4.00
29	2.21	2.33			3.44	3.50	....	....	4.11	4.17	3.92	3.97
30	2.32	2.47			3.44	3.50	....	....	4.17	4.24	3.89	3.95
31	2.46	2.58			3.44	3.60			4.22	4.27		

High and low daily water level, in feet with reference to land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	-3.75	-3.90	+0.75	-0.17	-1.86	-1.93	-0.90	-1.11	-2.23	-2.29	-3.17	-3.20
2	-3.68	-3.75	+1.26	-.12	-1.93	-1.97	-1.09	-1.25	-2.21	-2.26	-3.19	-3.30
3	-2.41	-2.79	+1.62	+1.27	-1.96	-1.97	-1.25	-1.37	-2.26	-2.34	.....	.....
4	-2.80	-3.37	+1.61	+1.32	-1.96	-2.00	-1.37	-1.49	-2.33	-2.40	.....	.....
5	-3.38	-3.56	+1.31	+.26	-1.99	-2.07	-1.49	-1.57	-2.38	-2.44	.....	.....
6	-3.55	-3.61	+.24	-.54	-2.04	-2.08	-1.57	-1.64	-2.41	-2.47	-3.23	-3.31
7	-2.88	-3.71	-.55	-.76	-2.07	-2.11	+1.04	-1.64	-2.42	-2.49	-3.28	-3.36
8	-2.01	-2.87	-.66	-.77	-2.08	-2.13	+1.58	+1.02	-2.45	-2.52	-3.33	-3.39
9	-2.28	-2.99	-.77	-.90	-2.16	-2.22	+1.51	+.66	-2.50	-2.56	-3.36	-3.41
10	-2.99	-3.21	-.90	-1.01	-2.20	-2.27	+.65	-.28	-2.55	-2.60	-3.37	-3.41

47--Continued.

High and low daily water level, in feet with reference to land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
11	-3.22	-3.33	-1.06	-1.21	-2.24	-2.28	-0.29	-0.66	-2.58	-2.61	-3.37	-3.40
12	-.60	-3.35	-1.20	-1.31	-2.16	-2.30	-.51	-.88	-2.61	-2.64	-3.38	-3.42
13	-.48	-1.19	-1.31	-1.40	-2.05	-2.10	-.72	-1.07	-2.64	-2.67	-3.40	-3.49
14	-1.19	-2.67	-1.35	-1.40	-2.09	-2.15	-1.07	-1.23	-2.68	-2.72	-3.43	-3.49
15	-2.68	-3.07	-1.36	-1.43	-2.14	-2.16	-1.24	-1.35	-2.72	-2.80	-3.44	-3.48
16	-3.07	-3.22	-1.43	-1.49	-1.96	-2.15	-1.36	-1.42	-2.80	-2.85	-3.48	-3.60
17	-3.22	-3.34	-1.50	-1.53	-1.81	-1.96	-1.43	-1.50	-2.83	-2.87	-3.55	-3.62
18	-3.34	-3.42	-1.53	-1.56	+.39	-1.92	-1.50	-1.61	-2.83	-2.87	-3.55	-3.63
19	-3.27	-3.52	-1.56	-1.58	+1.65	+.45	-1.61	-1.75	-2.85	-2.88	-3.60	-3.65
20	-2.82	-3.26	-1.47	-1.57	+1.74	+1.67	-1.75	-1.84	-2.85	-3.89	-3.48	-3.66
21	-2.32	-2.81	-1.39	-1.47	+1.66	+.91	-1.83	-1.92	-2.86	-2.93	-3.39	-3.53
22	-2.15	-2.55	-1.45	-1.51	+.90	+.08	-1.91	-1.97	-2.91	-2.97	-3.54	-3.62
23	-2.04	-2.19	-1.50	-1.60	+.07	-.47	-1.91	-1.94	-2.94	-3.00	-3.58	-3.62
24	-2.20	-2.36	-1.59	-1.66	-.47	-.70	-1.92	-1.97	-2.98	-3.03	-3.55	-3.60
25	-2.20	-2.40	-1.61	-1.66	-.70	-.76	-1.94	-2.00	-3.03	-3.07	-3.60	-3.65
26	-2.40	-2.55	-1.63	-1.68	-.11	-.77	-1.98	-2.08	-3.05	-3.10	-3.64	-3.66
27	-2.51	-2.58	-1.68	-1.72	+.15	-.09	-2.09	-2.17	-3.09	-3.15	-3.67	-3.68
28	-.27	-2.57	-1.71	-1.75	+.03	-.40	-2.17	-2.23	-3.14	-3.17	-3.67	-3.68
29	+.61	-.23	-1.72	-1.76	-.41	-.68	-2.22	-2.25	-3.16	-3.20	-3.68	-3.70
30	+.93	+.62	-1.75	-1.78	-.69	-.90	-2.25	-2.28	-3.19	-3.20	-3.70	-3.78
31	+1.02	+.76	-1.78	-1.86			-2.28	-2.30			-3.77	-3.80

Palm Beach County

Measurements have been discontinued on the following wells in Palm Beach County:

1	14	50	67	75	87
2	15	53	68	77	89
3	16	56	69	78	90
4	18	62	70	81	91
6	19	63	71	82	G303
8	20	64	72	83	G309
10	21	65	73	84	S1042
11	22	66	74	85	S1140
12					

88 (*1017, p. 166; 1024, p. 73). Geol. Survey, U. S. Dept. of Interior. NE¼NE¼ sec. 28, T. 44 S., R. 43 E. Records not available for periods Jan. 1 to Apr. 22 and Oct. 29 to Dec. 31.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High level	Low level	Week ending	High level	Low level
Apr. 29	8.66	9.04	Aug. 5	6.16	6.56
May 6	8.02	9.22	12	6.53	6.86
13	6.99	8.33	19	6.32	7.00
20	6.04	7.15	26	6.97	7.26
27	5.90	6.29	Sept. 2	6.46	7.22
June 3	5.98	6.29	9	5.56	6.81
10	4.12	6.00	16	4.68	5.64
17	4.43	4.89	23	5.28	5.54
24	4.89	5.32	30	5.54	6.15
July 1	5.29	5.51	Oct. 7	5.48	6.47
8	5.36	5.71	14	5.54	5.69
15	5.68	6.01	21	5.65	6.06
22	5.98	6.31	28	6.06	6.25
29	5.76	6.35			

G300 (*987, p. 39; 1017, p. 166; 1024, p. 74). Geol. Survey, U. S. Dept. of Interior. Sec. 32, T. 43 S., R. 41 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	3.93	Apr. 6	4.41	July 6	3.30	Oct. 5	1.36
12	4.18	13	4.52	13	1.85	12	3.15
19	4.18	20	4.58	20	2.93	19	3.45
26	3.86	27	4.68	27	2.85	26	3.74
Feb. 1	4.38	May 4	4.05	Aug. 3	3.34	Nov. 2	.15
9	4.70	11	3.92	10	3.68	9	1.76
16	4.02	18	4.60	17	3.15	16	1.98
23	4.48	25	3.00	24	3.26	23	2.34
Mar. 2	4.06	June 1	3.14	31	1.96	30	2.75
9	4.58	8	2.48	Sept. 7	a .02	Dec. 7	2.90
16	4.54	15	2.93	14	.34	14	2.36
23	3.94	22	3.91	21	.40	21	2.34
30	4.18	29	4.10	28	1.83	28	3.45

a Above land-surface datum.

Pinellas County

9. City of Clearwater. NW¼NW¼ sec. 15, T. 29 S., R. 15 E., in a shed at south side of Drew Street between Myrtle Avenue and Seaboard Air-line Railroad. Unused drilled public-supply well, diameter 10 inches, depth 165 feet. Measuring point, top of 10-inch casing, 1.0 foot above land-surface datum. Automatic water-stage recorder installed October 24, 1945.

High and low daily water level, in feet below land-surface datum, 1945
(From recorder charts)

Day	October		November		December	
	High	Low	High	Low	High	Low
1	.....	.....	24.84	25.02	25.50	25.82
2	.....	.....	24.84	25.09	25.50	25.88
3	.....	.....	24.71	25.04	25.24	25.77
4	.....	.....	24.63	25.03	25.36	24.78
5	.....	.....	24.97	25.52	24.80	25.33
6	.....	.....	25.16	25.57	25.13	25.72
7	.....	.....	25.24	25.58	25.49	25.85
8	.....	.....	25.16	25.51	25.33	25.72
9	.....	.....	25.08	25.50	25.15	25.55
10	.....	.....	25.10	25.45	24.96	25.35
11	.....	.....	25.05	25.35	25.25	25.65
12	.....	.....	24.98	25.28	25.33	25.68
13	.....	.....	24.85	25.20	25.24	25.45
14	.....	.....	24.83	25.06	25.00	25.33
15	.....	.....	25.05	25.75	25.05	25.26
16	.....	.....	25.53	25.78	25.20	25.72
17	.....	.....	25.24	25.52	25.56	26.08
18	.....	.....	25.11	25.59	24.85	25.77
19	.....	.....	25.03	25.46	24.85	25.87
20	.....	.....	25.03	25.60	25.07	25.29
21	.....	.....	25.00	25.53	25.45	25.90
22	.....	.....	24.91	25.46	25.42	25.81
23	.....	.....	25.19	25.82	25.23	25.62
24	.....	.....	25.47	25.93	25.11	25.47
25	.....	.....	25.49	25.78	24.92	25.25
26	24.25	24.96	25.42	25.80	24.94	25.44
27	24.84	25.26	25.57	25.83	25.30	25.57
28	25.09	25.38	25.34	25.70	25.11	25.40
29	25.02	25.39	25.39	25.53	25.05	25.35
30	24.89	25.15	25.45	25.64	24.85	25.35
31	24.73	25.04			24.90	25.37

9--Continued.

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	25.40	25.81	25.71	26.07	25.47	25.95	25.88	26.24	25.67	26.29	25.07	25.28
2	25.49	25.94	25.77	26.32	25.68	26.05	25.93	26.33	25.31	25.86	24.85	25.38
3	25.45	25.92	25.79	26.23	25.88	26.40	25.44	25.94	25.18	25.88	24.79	25.38
4	25.17	25.81	25.81	26.31	25.98	26.37	25.33	25.96	25.11	25.86	24.90	25.42
5	25.01	25.60	25.72	26.21	25.79	26.15	25.63	26.31	25.28	25.94	24.95	25.50
6	25.00	25.42	25.69	26.06	25.72	26.19	25.68	26.29	25.55	26.20	25.35	25.63
7	25.02	25.68	25.68	25.98	25.75	26.22	25.54	26.16	25.78	26.20	25.42	25.79
8	25.29	25.66	25.73	26.01	25.83	26.27	25.62	25.93	25.49	25.93	25.44	25.86
9	25.22	25.59	25.57	25.86	25.97	26.35	25.73	26.00	25.72	26.04	25.40	25.58
10	25.29	25.68	25.32	25.74	26.08	26.40	25.78	25.98	25.95	26.21	25.43	25.65
11	25.42	25.69	25.65	25.98	26.41	26.67	25.78	26.07	25.90	26.17	25.22	25.51
12	25.57	25.72	25.99	26.17	26.19	26.65	25.82	25.93	25.59	26.10	25.01	25.39
13	25.66	25.85	25.59	26.10	26.34	25.67	25.87	26.32	25.42	25.78	24.68	25.08
14	25.47	25.98	25.68	25.84	25.50	25.92	25.87	26.28	25.27	25.82	24.70	25.11
15	25.25	25.86	25.86	26.20	25.36	25.80	25.74	26.10	25.38	25.90	24.69	25.22
16	25.10	25.76	25.69	26.25	25.35	25.71	25.63	26.09	25.18	25.74	24.82	25.20
17	25.17	25.85	25.66	26.03	25.52	25.81	25.51	25.91	25.04	25.63	24.72	25.27
18	25.45	25.95	25.71	26.08	25.49	25.79	25.41	25.80	25.02	25.66	24.81	25.55
19	25.37	25.83	25.57	25.94	25.40	25.76	25.42	25.98	24.92	25.56	.....	.....
20	25.07	25.60	25.58	25.97	25.52	25.74	25.57	26.16	25.03	25.46	.....	.....
21	25.05	25.65	25.82	26.13	25.71	26.12	25.56	26.16	25.12	25.65	.....	.....
22	25.24	25.84	25.26	26.00	25.94	26.32	25.85	26.30	25.17	25.61	.....	.....
23	25.59	25.90	25.60	25.86	25.87	26.26	25.83	26.30	25.13	25.63	.....	.....
24	25.46	25.77	25.52	25.96	25.69	26.15	25.77	26.14	25.33	25.63	.....	.....
25	25.65	25.93	25.78	26.09	25.53	25.99	25.28	26.02	25.35	25.60	.....	.....
26	25.54	25.80	25.82	26.27	25.48	25.90	25.33	25.58	25.22	25.56	.....	.....
27	25.64	25.87	25.42	25.91	25.56	25.75	25.58	26.01	25.30	25.66	.....	.....
28	25.87	26.04	25.41	25.72	25.27	25.71	25.85	26.13	25.28	25.58	.....	.....
29	25.84	26.16			25.33	25.47	25.73	26.19	25.32	25.99	.....	.....
30	25.54	25.97			25.37	25.60	25.21	26.25	25.37	26.08	.....	.....
31	25.53	25.85			25.88	25.95			25.27	26.02		

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	24.82	25.17	24.95	25.21	24.83	25.15	25.19	25.50	24.94	25.20
2	.....	.....	24.89	25.15	25.01	25.28	24.89	25.33	25.05	25.24	24.97	25.76
3	.....	.....	24.79	25.06	24.99	25.48	25.02	25.53	24.98	25.14	25.68	25.96
4	.....	.....	24.59	24.79	24.99	25.26	25.16	25.58	25.08	25.35	25.78	26.09
5	.....	.....	24.50	24.82	24.86	25.16	25.10	25.53	25.17	25.56	25.68	26.02
6	.....	.....	24.48	25.15	24.78	25.33	24.97	25.33	25.31	25.60	25.73	25.99
7	.....	.....	24.85	25.18	24.86	25.14	24.23	25.00	25.08	25.48	25.58	26.02
8	.....	.....	24.77	25.21	24.58	24.92	24.10	24.45	24.97	25.36	25.32	25.95
9	.....	.....	24.76	25.16	24.46	24.80	24.13	24.50	24.97	25.40	25.31	25.87
10	.....	.....	24.82	25.41	24.40	24.76	24.34	24.67	25.05	25.46	25.32	25.88
11	.....	.....	24.76	25.25	24.44	24.92	24.38	24.80	24.89	25.40	25.11	25.71
12	.....	.....	24.87	25.56	24.57	24.93	24.38	24.88	24.98	25.59	25.18	25.55
13	.....	.....	25.14	25.74	24.66	25.12	24.61	25.12	25.29	25.80	24.84	25.57
14	25.23	25.66	25.25	25.67	24.66	25.15	24.75	25.33	25.50	25.82	25.19	25.89
15	25.18	25.73	25.28	25.76	24.39	24.95	25.05	25.54	25.51	25.80	25.46	25.91
16	25.47	25.96	25.36	25.71	24.39	24.77	25.11	25.45	25.51	25.83	25.51	25.92
17	25.47	25.97	25.25	25.64	24.43	24.91	24.98	25.37	25.30	25.75	25.87	25.98
18	25.60	26.10	25.31	25.58	24.47	24.94	24.89	25.33	25.18	25.45	25.70	25.87
19	25.66	26.10	25.06	25.29	24.65	24.84	24.89	25.36	25.43	25.73	25.70	26.02
20	25.29	25.84	25.01	25.47	24.52	24.91	24.97	25.23	25.33	25.67	25.74	25.93
21	25.16	25.47	24.98	25.52	24.52	24.94	24.91	25.34	24.97	25.53	25.71	25.88
22	24.98	25.24	25.06	25.70	24.53	24.88	25.04	25.40	24.97	25.34	25.69	26.34
23	24.91	25.25	25.04	25.68	24.48	24.80	25.05	25.35	25.14	25.56	25.97	26.32
24	24.93	25.34	25.10	25.64	24.38	24.78	24.97	25.33	25.03	25.57	25.87	26.12
25	24.86	25.49	25.04	25.55	24.49	24.95	24.94	25.34	24.98	25.41	25.62	26.08
26	24.91	25.35	25.11	25.86	24.41	24.85	24.96	25.29	25.09	25.47	25.50	26.07
27	24.69	25.21	25.08	25.44	24.44	24.91	25.00	25.43	25.06	25.55	25.67	26.19
28	24.51	25.05	24.69	25.16	24.53	24.89	25.19	25.66	25.25	25.56	25.68	26.15
29	24.44	25.02	24.82	25.16	24.56	24.83	25.30	25.67	25.13	25.51	25.58	26.08
30	24.62	25.01	24.70	25.04	25.47	24.92	25.29	25.68	25.13	25.36	25.57	25.82
31	24.71	25.16	24.67	25.14			25.24	25.64			25.60	25.93

19. City of Clearwater. NE¼NE¼ sec. 9, T. 29 S., R. 15 E., on east side of Garden Avenue, 200 feet south of Marshall Street. Unused drilled public-supply well, diameter 10 inches, depth 100 feet. Measuring point, top of 10-inch casing, at land-surface datum and 32.27 feet above mean sea level. Automatic water-stage recorder installed Feb. 25, 1946.

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	26.05	26.54	25.85	26.29	25.60	26.25	25.13	25.73
2	.....	.....	25.88	26.34	25.86	26.27	25.50	26.19	24.94	25.55
3	.....	.....	25.65	26.23	25.83	26.30	25.33	25.95	24.96	25.49
4	.....	.....	25.73	26.17	25.78	26.30	25.37	25.91	25.10	25.55
5	.....	.....	25.87	26.31	25.92	26.44	25.44	26.01	25.29	25.72
6	.....	.....	26.09	26.47	25.92	26.37	25.70	26.24	25.45	25.74
7	.....	.....	26.08	26.50	25.88	26.29	25.81	26.23	25.52	25.79
8	.....	.....	26.05	26.43	25.89	26.24	25.79	26.09	25.48	25.75
9	.....	.....	25.98	26.34	25.93	26.23	25.95	26.27	25.42	25.64
10	.....	.....	25.87	26.14	26.00	26.27	26.11	26.34	25.42	25.76
11	.....	.....	25.60	26.03	26.07	26.33	25.95	26.30	25.37	25.67
12	.....	.....	25.51	26.05	26.19	26.60	25.78	26.09	25.22	25.53
13	.....	.....	25.76	26.38	26.34	26.63	25.65	26.02	25.05	25.47
14	.....	.....	26.15	26.50	26.06	26.48	25.65	26.20	25.10	25.54
15	.....	.....	26.20	26.54	.....	.....	25.63	26.13	25.09	25.58
16	.....	.....	26.32	26.67	.....	.....	25.51	25.99	25.19	25.62
17	.....	.....	26.22	26.66	.....	.....	25.44	25.81	25.19	25.64
18	.....	.....	26.26	26.65	.....	.....	25.30	25.74	25.21	25.65
19	.....	.....	26.21	26.70	.....	.....	25.33	25.74	25.30	25.74
20	.....	.....	26.01	26.52	.....	.....	25.29	25.77	25.40	25.79
21	.....	.....	25.90	26.31	.....	.....	25.32	25.77	25.41	25.76
22	.....	.....	25.89	26.29	.....	.....	25.40	25.77	25.46	25.75
23	.....	.....	25.87	26.36	.....	.....	25.47	25.87	25.49	25.75
24	.....	.....	26.05	26.46	.....	.....	25.47	25.87	25.50	25.76
25	.....	.....	26.16	26.57	25.15	25.75	25.44	25.79	25.47	25.83
26	25.71	26.26	26.31	26.64	25.22	25.66	25.39	25.67	25.45	25.85
27	26.07	26.70	26.37	26.70	25.68	25.99	25.32	25.67	25.35	25.88
28	26.30	26.65	26.40	25.82	25.77	26.17	25.29	25.78	25.29	25.83
29			26.48	26.77	25.67	26.10	25.33	25.88	25.23	25.81
30			26.43	26.77	25.58	26.17	25.38	25.98	25.19	25.78
31			26.19	26.77			25.31	25.88		

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	25.19	25.74	24.64	25.15	24.85	25.14	24.61	24.95	25.08	25.34	.....	.....
2	25.21	25.66	24.83	25.13	24.89	25.19	24.78	25.14	24.94	25.19	.....	.....
3	25.35	25.64	24.84	25.14	24.96	25.22	24.95	25.28	24.94	25.23	.....	.....
4	25.33	25.62	24.83	25.07	24.94	25.21	25.09	25.33	25.04	25.31	.....	.....
5	25.35	25.62	24.78	25.03	24.97	25.29	25.01	25.27	25.10	25.40	.....	.....
6	25.40	25.69	24.76	25.01	24.98	25.22	24.91	25.15	25.09	25.43	.....	.....
7	25.43	25.69	24.73	25.07	24.94	25.27	24.47	25.05	24.88	25.34	25.42	26.00
8	25.39	25.70	24.75	25.12	24.76	25.09	24.33	24.78	.....	.....	25.17	25.87
9	25.41	25.73	24.79	25.17	24.70	25.04	24.35	24.74	.....	.....	25.18	25.73
10	25.37	25.75	24.82	25.25	24.65	25.03	24.47	24.85	.....	.....	25.16	25.73
11	25.31	25.71	24.81	25.24	24.58	25.02	24.42	24.93	.....	.....	25.12	25.65
12	25.24	25.66	24.76	25.32	24.58	25.02	24.40	24.91	.....	.....	25.12	25.48
13	25.02	25.47	24.88	25.42	24.65	25.04	24.52	25.17	.....	.....	25.03	25.44
14	25.06	25.53	24.95	25.46	24.71	25.11	24.83	25.27	.....	.....	25.20	25.58
15	25.09	25.59	24.99	25.44	24.67	25.11	24.91	25.42	.....	.....	25.43	25.66
16	25.06	25.64	24.99	25.37	24.61	24.99	24.94	25.32	.....	.....	25.45	25.75
17	25.05	25.62	25.01	25.29	24.65	25.12	24.86	25.17	.....	.....	25.64	25.78
18	25.07	25.62	24.96	25.27	24.67	25.14	24.68	24.99	.....	.....	25.65	25.80
19	25.04	25.70	24.89	25.24	24.75	25.11	24.67	25.05	.....	.....	25.82	26.06
20	25.03	25.58	24.87	25.19	24.69	25.04	24.83	25.11	.....	.....	25.69	25.98
21	25.03	25.42	24.81	25.22	24.60	25.00	24.83	25.14	.....	.....	25.72	26.03
22	25.02	25.33	24.79	25.25	24.59	24.91	24.90	25.18	.....	.....	25.94	26.52
23	24.88	25.36	24.78	25.26	24.50	24.90	24.93	25.20	.....	.....	25.94	26.46
24	25.04	25.48	24.76	25.25	24.54	24.94	24.85	25.25	.....	.....	25.70	26.22

19--Continued.

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
25	25.03	25.47	24.73	25.24	24.58	24.98	24.75	25.19	.....	.....	25.69	26.13
26	24.83	25.41	24.76	25.28	24.55	24.97	24.74	25.17	.....	.....	25.73	26.13
27	24.80	25.33	24.81	25.26	24.58	24.98	24.82	25.32	.....	.....	25.73	26.12
28	24.71	25.23	24.77	25.17	24.59	24.98	25.00	25.41	.....	.....	25.67	26.01
29	24.63	25.10	24.77	25.12	24.62	24.94	25.13	25.52	.....	.....	25.57	25.85
30	24.54	24.99	24.72	25.07	24.58	24.88	25.15	25.48	.....	.....	25.55	25.92
31	24.59	25.01	24.74	25.11			25.16	25.47			25.72	25.99

Polk County

44. P. E. Williams. SW¼NE¼ sec. 28, T. 26 S., R. 27 E., 2.5 miles northwest of Davenport and 1.5 miles west of U. S. Highway 17, in a pasture on the south side of a drainage ditch. Unused drilled drainage well, diameter 10 inches, depth unknown. Measuring point, top of 10-inch coupling, 2.0 feet above land-surface datum and 115.14 feet above mean sea level. Continuous water-stage recorder installed Dec. 3, 1946.

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	December		Day	December	
	High	Low		High	Low
1	....	....	17	2.63	2.68
2	....	....	18	2.63	2.70
3	....	....	19	2.67	2.71
4	2.42	2.48	20	2.64	2.72
5	2.42	2.48	21	2.66	2.77
6	2.44	2.53	22	2.72	2.77
7	2.48	2.54	23	2.69	2.77
8	2.49	2.56	24	2.68	2.73
9	2.50	2.56	25	2.72	2.77
10	2.51	2.56	26	2.75	2.78
11	2.52	2.55	27	2.77	2.79
12	2.53	2.57	28	2.75	2.80
13	2.57	2.58	29	2.75	2.78
14	2.55	2.58	30	2.78	2.82
15	2.57	2.60	31	2.80	2.84
16	2.59	2.66			

St. Johns County

2 (*907, p. 18; 937, p. 15; 945, p. 19; 987, p. 40; 1017, p. 167; 1024, p. 74). P. J. Manucy. At Vilano Beach, on east side of North River, about 150 feet north of Vilano Bridge, 1.9 miles northeast of St. Augustine.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 22	29.1	Aug. 15	29.8	Oct. 2	28.9	Dec. 18	28.9
June 20	28.1	Sept. 2	29.2	Nov. 14	29.9		

3 (*907, p. 18; 937, p. 15; 945, p. 20; 987, p. 40; 1017, p. 167; 1024, p. 74). Francis Usina. At Usina's Beach, on east side of North River, 2.4 miles north of Vilano Bridge, 4.0 miles north of St. Augustine.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
June 20	30.2	Sept. 2	39.3	Dec. 18	35.7
Aug. 15	34.8	Nov. 14	34.6		

4 (*907, p. 19; 937, p. 15; 945, p. 20; 987, p. 40; 1017, p. 168; 1024, p. 75). Mill Creek School. On northwest side of Nine Mile Road, about 700 feet northeast of its intersection with State Highway 48, in rear of schoolhouse, 8.3 miles southeast of Shands Bridge.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
June 20	17.5	Sept. 3	19.0	Nov. 14	19.4
Aug. 15	18.2	Oct. 2	19.3		

5 (*907, p. 19; 937, p. 15; 945, p. 20; 987, p. 40; 1017, p. 168; 1024, p. 75). G. L. Oesterricker. On east side of Inland Waterways Canal, on north side of State Highway 306, 3.2 miles south of Palm Valley, in rear of owner's residence.

Water level, in feet above land-surface datum, 1946

June 20	40.6	Sept. 2	33.7	Nov. 14	44.4
Aug. 15	43.5	Oct. 2	43.5	Dec. 18	44.0

8 (*907, p. 19; 937, p. 15; 945, p. 20; 987, p. 40; 1017, p. 168; 1024, p. 75). Parish Bros. Near SW. corner NE¼NE¼ sec. 4, T. 5 S., R. 28 E., 0.5 mile southwest of Florida East Coast Railway, 2.5 miles southeast of Bayard. Measuring point to May 21, 1946, top of 6-inch tee, 20.77 feet above mean sea level and 3.00 feet above land-surface datum. Measuring point beginning May 22, 1946, center of ½-inch cock, 17.89 feet above mean sea level and 0.12 foot above land-surface datum.

Water level, in feet above land-surface datum, 1946

May 22	34.8	Aug. 15	34.0	Dec. 18	34.6
June 20	34.2	Sept. 3	32.6		

9. Ponce de Leon Hotel. In St. Augustine, in block north of Ponce de Leon Hotel. Unused drilled public-supply well, diameter 12.9 inches, depth 1,400 feet, cased to 170 feet. Measuring point, ¼-inch pipe, 4.0 feet above land-surface datum.

Water level, in feet above land-surface datum, 1930, 1940, 1946

Aug. 25, 1930	34.0	June 20, 1946	29.9	Oct. 2, 1946	32.1
Nov. 20, 1940	30.2	Aug. 15	31.1	Nov. 14	31.9
May 22, 1946	30.0	Sept. 3	31.7	Dec. 18	30.9

35 (*1024, p. 75). City of St. Augustine well 6. In St. Augustine, in NW¼NE¼ sec. 26, T. 7 S., R. 29 E., west side of Holmes Boulevard, 4,070 feet south of Florida East Coast Railway. Automatic water-stage recorder maintained on well since Aug. 9, 1944.

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	2.05	2.25	3.52	3.62	4.87	4.91	5.48	5.54	6.75	6.79	7.39	7.42
2	2.25	2.36	3.62	3.70	4.84	4.94	5.49	5.54	6.79	6.82	7.42	7.44
3	2.34	2.45	3.69	3.74	4.91	4.96	5.47	5.52	6.81	6.82	7.43	7.44
4	2.45	2.51	3.73	3.79	4.93	4.98	5.51	5.59	....	....	7.43	7.44
5	2.49	2.57	3.78	3.83	4.97	5.01	5.58	5.65	....	....	7.44	7.47
6	2.56	2.66	3.82	3.90	4.99	5.05	5.63	5.68	....	....	7.46	7.48
7	....	....	....	....	5.05	5.11	5.66	5.77	6.85	6.88	7.48	7.50
8	....	....	....	....	5.10	5.14	5.70	5.76	6.86	6.89	7.49	7.52
9	2.78	2.85	....	....	5.13	5.24	5.75	5.81	6.89	6.91	7.52	7.54
10	2.83	2.92	3.91	4.01	5.22	5.31	5.80	5.89	6.91	6.93	7.54	7.58
11	2.91	3.01	4.01	4.11	5.31	5.38	5.88	5.94	6.93	6.95	7.58	7.61
12	3.01	3.08	4.10	4.18	5.37	5.41	5.92	6.02	6.94	6.97	7.61	7.64
13	3.07	3.11	4.15	4.20	5.40	5.44	6.01	6.06	6.96	6.99	7.64	7.67
14	3.12	3.17	4.17	4.31	5.40	5.47	6.06	6.11	....	....	7.67	7.70
15	3.12	3.19	4.29	4.35	5.31	5.41	6.11	6.15	....	....	7.70	7.72
16	3.10	3.22	4.33	4.38	5.26	5.33	6.15	6.18	....	....	7.71	7.73
17	3.18	3.30	4.36	4.40	5.22	5.32	6.13	6.23	....	....	....	....
18	3.28	3.33	4.39	4.45	5.11	5.25	6.22	6.25	....	....	....	....
19	3.32	3.40	4.37	4.46	5.09	5.13	6.24	6.27	....	....	....	....
20	3.37	3.44	4.45	4.55	5.07	5.11	6.26	6.31	....	....	7.83	7.86

35--Continued.

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
21	3.40	3.52	4.54	4.57	5.07	5.12	6.30	6.34	7.08	7.11	7.86	7.89
22	....	....	4.53	4.57	5.09	5.19	6.34	6.38	7.10	7.13	7.89	7.91
23	....	....	4.52	4.58	5.17	5.26	6.36	6.41	7.13	7.17	7.91	7.92
24	2.95	3.06	4.54	4.71	5.24	5.32	6.41	6.45	7.17	7.20	7.92	7.94
25	3.02	3.07	4.71	4.78	5.30	5.38	6.43	6.47	7.20	7.22	7.93	7.96
26	3.05	3.18	4.76	4.83	5.37	5.42	6.45	6.53	7.21	7.24	7.96	7.99
27	3.17	3.27	4.75	4.85	5.41	5.47	6.53	6.60	....	....	7.99	8.02
28	3.27	3.37	4.84	4.89	5.41	5.49	6.60	6.66	....	....	8.02	8.03
29	3.37	3.42			5.39	5.47	6.66	6.71	7.29	7.33	8.03	8.05
30	....	....			5.38	5.49	6.71	6.75	7.33	7.36	8.04	8.06
31	....	....			5.43	5.52			7.36	7.39		

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	8.03	8.06	....	....	3.99	4.07	2.06	2.18	....	....	2.34	2.40
2	8.02	8.03	....	....	3.90	3.99	2.17	2.28	....	....	2.40	2.53
3	8.01	8.02	7.72	7.75	3.86	3.90	2.27	2.35	....	....	2.52	2.57
4	7.98	8.01	7.68	7.72	3.84	3.87	2.34	2.43	....	....	2.57	2.64
5	7.94	7.98	7.63	7.68	3.82	3.86	2.28	2.47	2.66	2.73	2.63	2.68
6	7.91	7.94	7.60	7.63	3.79	3.83	1.06	2.28	2.71	2.76	2.68	2.76
7	7.87	7.91	7.58	7.60	3.76	3.79	.54	1.06	1.57	2.73	2.75	2.83
8	7.84	7.87	7.55	7.57	3.74	3.77	.52	.79	1.39	1.57	2.81	2.87
9	....	....	7.54	7.55	3.73	3.77	.79	.94	1.39	1.44	2.86	2.90
10	7.80	7.80	7.53	7.54	3.72	3.78	.94	1.06	1.44	1.52	2.88	2.91
11	7.79	7.80	7.51	7.52	3.74	3.78	1.06	1.14	....	....	2.91	2.96
12	7.80	7.81	7.51	7.51	3.72	3.77	1.13	1.24	....	....	....	....
13	7.80	7.81	7.50	7.51	3.66	3.72	1.24	1.31	1.66	1.80	....	....
14	7.80	7.81	7.50	7.51	3.53	3.72	1.31	1.39	1.80	1.95	3.03	3.10
15	7.80	7.82	....	....	2.04	3.53	1.38	1.47	1.65	2.05	3.09	3.15
16	....	....	....	....	1.44	1.99	1.46	1.54	1.62	1.67	3.12	3.19
17	....	....	7.46	7.49	1.44	1.47	1.53	1.62	1.64	1.68	3.18	3.21
18	7.79	7.80	7.36	7.46	1.45	1.48	....	....	1.67	1.75	3.19	3.27
19	7.79	7.80	7.12	7.35	....	....	1.74	1.86	1.75	1.82	3.24	3.30
20	7.80	7.81	6.93	7.12	....	....	1.86	1.94	1.79	1.87	....	....
21	7.80	7.81	6.78	6.93	1.49	1.63	1.94	2.04	1.78	1.89	....	....
22	7.80	7.80	6.68	6.78	1.48	1.61	2.03	2.09	1.89	1.99	....	....
23	7.80	7.82	....	....	1.60	1.73	2.08	2.17	1.99	2.08	....	....
24	....	....	....	....	1.73	1.88	2.16	2.22	2.01	2.07	....	....
25	....	....	6.45	6.50	1.73	1.92	2.06	2.25	2.06	2.14	3.45	3.52
26	....	....	6.34	6.45	1.78	1.96	2.23	2.36	....	....	3.51	3.55
27	7.80	7.92	6.10	6.34	1.74	1.92	2.33	2.41	....	....	3.55	3.59
28	7.92	7.95	5.45	6.10	1.91	2.01	2.39	2.48	....	....	3.58	3.62
29	7.90	7.94	4.31	5.45	1.86	1.93	2.39	2.48	2.29	2.35	3.61	3.67
30	7.86	7.90	4.14	4.30	1.91	2.07	2.43	2.52	2.33	2.38	3.65	3.73
31	7.80	7.85	4.07	4.14			2.50	2.56			3.72	3.76

St. Lucie County

6 (*1017, p. 168; 1024, p. 77). City of Fort Pierce. Sec. 23, T. 35 S., R. 40 E. Water levels, in feet below land-surface datum, 1946: Feb. 20, 19.64; Apr. 17, 20.37.

7 (*1017, p. 168; 1024, p. 77). City of Fort Pierce. Sec. 23, T. 35 S., R. 40 E. Water levels, in feet below land-surface datum, 1946: Feb. 20, 13.02; Apr. 17, 13.78.

9 (*1017, p. 168; 1024, p. 77). Geol. Survey, U. S. Dept. of Interior. Sec. 22, T. 35 S., R. 40 E. Water levels, in feet below land-surface datum, 1946: Feb. 20, 2.87; Apr. 17, 3.82.

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10 (*1017, p. 168; 1024, p. 77). Geol. Survey, U. S. Dept. of Interior. Sec. 22, T. 35 S., R. 40 E. Water levels, in feet below land-surface datum, 1946: Feb. 20, 2.93; Apr. 17, 3.93.

11 (*1017, pp. 168-169; 1024, p. 77). Mr. McDonald. NW¼NW¼ sec. 1, T. 36 S., R. 40 E. No measurements made in 1946.

13 (*1017, p. 169; 1024, p. 77). Mrs. Mason. Measurements discontinued.

15 (*1017, p. 169; 1024, p. 77). Geol. Survey, U. S. Dept. of Interior. NW¼NW¼ sec. 1, T. 36 S., R. 40 E. Water levels, in feet below land-surface datum, 1946: Feb. 20, 2.90; Apr. 17, 3.32.

16 (*1017, p. 169; 1024, p. 77). Geol. Survey, U. S. Dept. of Interior. NW¼NE¼ sec. 2, T. 36 S., R. 40 E. Water levels, in feet below land-surface datum, 1946: Feb. 20, 1.46; Apr. 17, 2.67.

17 (*1017, p. 169; 1024, p. 77). Geol. Survey, U. S. Dept. of Interior. NW¼ sec. 2, T. 36 S., R. 40 E. Water levels, in feet below land-surface datum, 1946: Feb. 20, 2.79; Apr. 17, 4.08.

19 (*1017, p. 169; 1024, p. 78). Geol. Survey, U. S. Dept. of Interior. SW¼NW¼ sec. 2, T. 36 S., R. 40 E. Water levels, in feet below land-surface datum, 1946: Feb. 20, 3.83; Apr. 17, 4.87.

20 (*1017, pp. 169-170; 1024, p. 78). Geol. Survey, U. S. Dept. of Interior. NW¼SE¼ sec. 32, T. 36 S., R. 41 E. Water levels, in feet below land-surface datum, 1946: Feb. 20, 10.16; Apr. 17, 10.69.

21 (*1017, p. 170; 1024, p. 78). Geol. Survey, U. S. Dept. of Interior. NW¼SE¼ sec. 32, T. 36 S., R. 41 E. Water levels, in feet below land-surface datum, 1946: Feb. 20, 3.77; Apr. 17, 4.45.

22 (*1017, p. 170; 1024, p. 78). Geol. Survey, U. S. Dept. of Interior. NE¼SE¼ sec. 31, T. 36 S., R. 41 E. Water levels, in feet below land-surface datum, 1946: Feb. 20, 3.06; Apr. 17, 3.75.

24 (*1017, p. 170; 1024, p. 78). Geol. Survey, U. S. Dept. of Interior. NW¼SW¼ sec. 31, T. 36 S., R. 41 E. Water levels, in feet below land-surface datum, 1946: Feb. 20, 2.43; Apr. 17, 3.30.

25 (*1017, p. 170; 1024, p. 78). Geol. Survey, U. S. Dept. of Interior. NW¼SE¼ sec. 36, T. 36 S., R. 40 E. Water levels, in feet below land-surface datum, 1946: Feb. 20, 3.31; Apr. 17, 4.11.

Sarasota County

5 (*945, p. 20; 987, p. 41; 1017, p. 170; 1024, p. 78). Designated as well 46 in Florida Geological Survey 23d-24th Ann. Rept. (combined). R. M. Canty. SE¼NE¼ sec. 19, T. 36 S., R. 20 E., about 300 feet south of State Highway 18, about 12 miles east of Sarasota. Measuring point to Apr. 2, 1946, top of 8-inch casing, at land-surface datum and 43.60 feet above mean sea level; measuring point beginning Apr. 3, 1946, top of 8-inch vitrified clay pipe, 46.56 feet above mean sea level and 2.96 feet above land-surface datum. Record obtained through courtesy of J. G. Kimmel of the Palmer Corporation, Sarasota.

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	5.32	5.44	5.35	5.47	5.63	5.72	5.56	5.71	6.43	6.53	6.02	6.10
2	5.36	5.44	5.45	5.55	5.63	5.74	5.61	5.72	6.39	6.49	5.99	6.05
3	5.33	5.41	5.51	5.57	5.68	5.76	....	....	6.37	6.44	5.98	6.02
4	5.27	5.39	5.52	5.58	5.66	5.75	....	....	6.35	6.40	5.95	5.99
5	5.14	5.31	5.51	5.57	5.64	5.73	....	....	6.37	6.47	5.97	6.04
6	5.19	5.28	5.50	5.54	5.64	5.71	5.63	5.66	6.43	6.47	6.03	6.06
7	5.23	5.28	5.50	5.54	5.66	5.73	5.64	5.69	6.38	6.46	6.01	6.06
8	5.25	5.29	5.53	5.57	5.65	5.70	5.66	5.67	6.36	6.41	5.98	6.05
9	5.28	5.30	5.50	5.55	5.64	5.70	5.68	5.77	6.39	6.47	5.96	6.05

5--Continued.

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
10	5.28	5.31	5.44	5.53	5.65	5.70	5.71	5.82	6.44	6.52	5.98	6.05
11	5.27	5.34	5.51	5.68	5.67	5.74	5.77	5.87	6.43	6.53	5.96	6.05
12	5.31	5.40	5.63	5.73	5.64	5.72	5.81	5.92	6.43	6.52	5.90	5.99
13	5.34	5.45	5.59	5.73	5.56	5.70	5.87	6.00	6.45	6.56	5.88	5.98
14	5.34	5.45	5.57	5.76	5.47	5.63	5.95	6.06	6.50	6.58	5.88	5.98
15	5.29	5.41	5.75	5.85	5.41	5.50	6.00	6.09	6.47	6.56	5.88	5.94
16	5.31	5.38	5.74	5.85	5.39	5.48	6.00	6.09	6.42	6.55	5.83	5.91
17	5.33	5.45	5.72	5.81	5.39	5.48	6.02	6.10	6.35	6.46	5.78	5.86
18	5.37	5.47	5.75	5.80	5.34	5.44	6.07	6.17	6.34	6.42	5.77	5.83
19	5.32	5.41	5.69	5.78	5.30	5.38	6.15	6.20	6.37	6.43	5.77	5.81
20	5.27	5.36	5.71	5.80	5.30	5.37	6.19	6.24	6.36	6.40	5.70	5.78
21	5.30	5.36	5.80	5.84	5.37	5.41	6.25	6.31	6.35	6.39	5.69	5.74
22	5.34	5.41	5.73	5.81	5.41	5.45	6.31	6.33	6.30	6.35	5.72	5.76
23	5.40	5.45	5.64	5.73	5.45	5.50	6.28	6.32	6.27	6.32	5.70	5.76
24	5.35	5.42	5.59	5.68	5.47	5.52	6.25	6.29	6.25	6.30	5.64	5.72
25	5.36	5.43	5.68	5.79	5.49	5.53	6.17	6.28	6.17	6.26	5.62	5.73
26	5.32	5.38	5.69	5.79	5.49	5.53	6.15	6.31	6.13	6.30	5.64	5.75
27	5.34	5.42	5.44	5.72	5.47	5.52	6.29	6.44	6.12	6.20	5.60	5.71
28	5.38	5.46	5.55	5.68	5.44	5.51	6.42	6.52	6.09	6.19	5.55	5.68
29	5.37	5.46			5.40	5.51	6.43	6.54	6.05	6.16	5.52	5.61
30	5.34	5.45			5.40	5.49	6.41	6.52	6.06	6.17	5.48	5.58
31	5.30	5.39			5.42	5.63			6.05	6.16		

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	5.44	5.51	4.90	5.05	3.87	3.97	3.69	3.77	....	....	4.96	5.03
2	5.37	5.44	5.01	5.04	3.86	3.90	3.77	3.83	4.28	4.38	4.98	5.13
3	5.37	5.42	5.00	5.05	3.85	3.90	3.80	3.85	4.38	4.47	5.08	5.16
4	5.39	5.45	4.76	5.22	3.87	3.93	3.80	3.87	4.45	4.53	5.11	5.20
5	5.43	5.46	4.89	4.96	....	....	3.83	3.89	4.48	4.56	5.09	5.20
6	5.45	5.49	4.81	4.90	....	....	3.82	3.91	4.49	4.59	5.11	5.24
7	5.43	5.50	4.04	4.83	....	....	3.32	3.85	4.49	4.60	5.16	5.29
8	5.45	5.52	4.70	4.82	....	....	3.47	3.72	4.52	4.63	5.21	5.35
9	5.36	5.49	4.65	4.73	....	....	3.67	3.77	4.56	4.65	5.25	5.35
10	5.36	5.45	4.61	4.72	....	....	3.72	3.83	4.54	4.67	5.20	5.33
11	5.37	5.45	4.54	4.67	....	....	3.77	3.83	4.64	4.69	5.14	5.25
12	5.37	5.45	4.52	4.63	....	....	3.78	3.85	4.62	4.71	5.11	5.18
13	5.38	5.47	4.49	4.59	....	....	3.86	3.92	4.61	4.68	5.11	5.15
14	5.43	5.51	4.36	4.54	3.88	3.97	3.92	3.93	4.63	4.68	5.09	5.14
15	5.26	5.50	4.41	4.47	3.82	3.97	3.93	3.96	4.68	4.78	5.13	5.20
16	5.37	5.44	4.41	4.46	3.85	3.90	3.96	3.99	4.78	4.87	5.18	5.25
17	5.33	5.38	4.35	4.42	3.90	3.93	....	....	4.84	4.92	5.21	5.28
18	5.24	5.35	4.27	4.35	3.89	3.96	3.98	4.04	4.83	4.91	5.21	5.31
19	4.58	5.35	4.23	4.28	3.83	3.94	4.03	4.15	4.84	4.92	5.25	5.33
20	5.75	5.30	4.19	4.26	3.80	3.88	4.10	4.19	4.83	4.92	5.22	5.33
21	5.23	5.28	4.06	4.25	3.80	3.90	4.14	4.22	4.85	4.97	5.25	5.44
22	5.19	5.24	4.12	4.21	3.84	3.93	4.17	4.25	4.91	5.01	5.42	5.52
23	5.19	5.29	4.04	4.22	3.87	3.97	4.19	4.28	4.94	5.04	5.40	5.52
24	5.24	5.34	4.02	4.13	3.90	4.00	4.19	4.27	4.96	5.05	5.37	5.47
25	4.69	5.30	4.03	4.13	3.89	3.97	....	....	4.99	5.07	5.42	5.49
26	4.41	5.21	4.02	4.12	3.72	3.93	....	....	5.00	5.08	5.44	5.50
27	4.41	5.12	3.87	4.08	3.78	3.86	....	....	5.02	5.09	5.43	5.49
28	4.86	5.12	3.91	3.98	3.80	3.86	....	....	5.05	5.10	5.41	5.47
29	4.82	5.10	3.89	3.95	3.76	3.84	....	....	5.05	5.09	5.40	5.44
30	4.85	5.03	3.88	3.92	3.67	4.54	....	....	5.02	5.08	5.40	5.46
31	4.99	5.04	3.90	3.96			....	....			5.45	5.50

9 (*945, p. 22; 987, p. 42; 1017, p. 171; 1024, p. 80). Designated as well P-100 in Florida Geol. Survey 23d-24th Ann. Rept. (combined). Palmer Corporation. At Palmer Farms, near SE. corner SW¼SE¼ sec. 20, T. 36 S., R. 19 E., about 7 miles east of Sarasota. Measuring point, top of 6-inch casing, 39.56 feet above mean sea level and 6.00 feet above land-surface datum. Record obtained through the courtesy of J. G. Kimmel of the Palmer Corporation, Sarasota.

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	0.57	0.68	1.70	1.79	0.95	1.15	1.67	1.99	2.69	2.88	0.93	1.01
2	.58	.66	1.74	2.80	.93	1.69	1.95	2.05	2.44	2.75	.92	1.02
3	.58	.70	1.82	1.93	.81	.99	1.98	2.05	2.37	2.45	.92	.97
4	.62	1.07	1.88	1.96	.83	1.56	2.03	3.60	1.83	2.38	.93	1.06
5	.98	1.10	1.93	2.43	.54	1.78	3.54	3.79	1.72	1.83	1.04	1.15
6	1.04	1.09	1.94	3.65	1.43	1.91	3.74	3.83	1.68	1.72	1.08	1.13
7	1.06	2.31	2.49	3.73	1.94	2.14	3.50	3.77	1.75	1.86	1.04	1.11
8	1.35	1.55	3.92	3.98	1.97	2.12	3.68	4.00	1.72	1.80	1.03	1.08
9	1.54	1.62	3.37	3.83	2.12	2.38	3.86	3.95	1.72	1.90	1.03	1.12
10	1.63	1.77	3.58	3.67	2.05	2.12	3.81	4.10	1.83	2.12	.93	1.08
11	1.74	1.87	3.42	3.82	2.02	3.41	3.98	4.15	2.07	2.25	.88	.97
12	1.83	2.83	3.62	3.85	2.05	2.61	4.03	4.40	2.14	2.23	.81	.93
13	1.88	2.01	3.54	3.72	1.70	2.55	3.75	4.35	2.07	2.22	.77	.90
14	1.87	1.98	3.39	3.82	1.38	1.70	4.12	4.27	1.93	2.12	...	...
15	1.78	2.41	3.13	3.64	1.24	1.40	2.83	4.22	1.78	1.93	...	...
16	1.44	1.81	2.44	3.64	1.16	1.25	2.72	4.25	1.45	1.80	...	...
17	1.32	1.67	3.30	3.61	1.18	1.25	2.72	4.23	1.20	1.45	...	...
18	1.42	1.47	3.41	3.78	1.18	1.25	2.57	2.72	1.11	1.20	...	...
19	1.87	1.98	3.47	4.02	1.13	1.38	2.58	2.63	1.06	1.14	...	...
20	1.78	2.41	1.72	3.47	1.38	1.65	2.58	2.67	1.00	1.07	...	...
21	1.52	1.65	1.58	1.75	1.65	1.86	2.58	2.65	.92	1.00	...	...
22	1.43	1.72	1.66	1.75	1.85	1.91	2.59	2.66	.85	.93	...	...
23	1.19	1.43	1.55	1.65	1.89	1.97	2.62	2.66	.76	.85	...	...
24	1.07	1.19	1.57	1.65	1.94	2.00	2.62	2.77	.72	.77	...	...
25	1.07	1.12	1.64	3.23	1.90	2.00	2.52	2.75	.68	.72	...	...
26	1.01	1.12	2.07	3.47	2.00	2.07	2.43	2.57	.64	.69	...	...
27	1.02	1.11	1.85	3.33	2.04	3.45	2.53	2.68	.58	.68	...	...
28	1.07	1.45	1.15	1.85	2.00	3.29	2.67	2.76	.57	.69	...	...
29	1.35	1.56			1.72	3.27	2.61	2.82	.55	.75	...	...
30	1.49	2.76			1.57	1.71	2.68	2.90	.74	.95	...	...
31	1.69	1.91			1.58	1.75			.92	1.01		

High and low daily water level, in feet with reference to land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	-0.20	-0.41	+0.88	+0.85	+1.17	+0.97	-0.79	-1.07	-1.02	-1.35
2	.....	.....	-.19	-.40	+.92	+.58	+.97	+.68	-.67	-.82	-1.04	-1.30
3	.....	.....	-.07	-.19	+.64	+.52	+.68	+.46	-.59	-.72	-1.28	-1.68
4	.....	.....	+.37	-.48	+.64	+.50	+.46	-.04	-.68	-1.07	-1.65	-1.93
5	.....	.....	+.28	+.12	+.62	+.54	+.08	-.08	-1.03	-1.32	-1.83	-2.10
6	.....	.....	+.33	+.21	....	....	+.08	-.08	-1.29	-1.50	-1.98	-2.37
7	.....	.....	+.44	+.21	....	....	+1.18	-.02	-1.42	-1.89	-2.07	-2.27
8	.....	.....	+.50	+.37	....	....	+1.18	+1.08	-1.66	-1.89	-2.13	-2.23
9	.....	.....	+.54	+.37	....	....	.....	.....	-1.68	-1.78	-2.03	-2.22
10	.....	.....	+.55	+.32	....	....	+.96	+.70	-1.58	-1.95	-2.04	-2.22
11	.....	.....	+.62	+.53	....	....	+.81	+.18	-1.58	-1.80	-2.05	-2.70
12	.....	.....	+.71	+.55	....	....	+.22	-.03	-.73	-1.91	-2.04	-2.26
13	.....	.....	+.74	+.52	....	....	+.13	.00	-.50	-1.98	-2.07	-2.17
14	.....	.....	+.87	+.55	+.47	+.41	+.12	-.15	-1.81	-2.05	-1.93	-2.07
15	.....	.....	+.90	+.84	+.49	+.41	-.16	-.65	-2.03	-2.12	-1.78	-1.93
16	.....	.....	+.88	+.80	+.61	+.49	-.65	-.94	-2.07	-2.22	-1.78	-1.89
17	.....	.....	+.95	+.88	+.59	+.39	-.94	-1.09	-2.02	-2.21	-1.83	-2.00
18	.....	.....	+.96	+.93	+.39	-.52	-1.08	-1.18	-1.95	-2.02	-1.95	-2.16
19	.....	.....	+.99	+.95	+.77	+.28	-1.10	-1.33	-1.94	-2.04	-2.08	-2.38
20	.83	.90	+1.01	+.86	+.96	+.77	-1.21	-2.56	-1.86	-2.22	-2.28	-2.55
21	-.80	-.88	+.94	+.82	+1.01	+.95	-1.11	-1.45	-1.92	-2.20	-1.87	-2.55

9--Continued.

High and low daily water level, in feet with reference to land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
22	-0.75	-0.80	+1.04	+0.94	+1.03	+0.92	-1.12	-1.35	-1.87	-2.27	-1.71	-1.87
23	-.72	-.82	+1.13	+1.02	+.92	+.68	-1.13	-2.29	-1.86	-2.27	-1.71	-2.03
24	-.54	-.84	+1.18	+1.08	+.73	+.57	-1.12	-1.40	-1.77	-1.88	-1.93	-2.03
25	-.45	-.64	+1.18	+1.07	+.63	+.42	-1.15	-1.55	-1.80	-1.96	-1.88	-1.98
26	-.43	-.69	+1.12	+1.03	+.49	+.37	-1.43	-1.56	-1.84	-1.96	-1.79	-1.92
27	-.27	-.43	+1.08	+.88	+.95	+.47	-1.45	-1.51	-1.75	-1.89	-1.80	-2.33
28	-.23	-.35	+.99	+.95	+1.08	+.95	-1.30	-1.50	-1.82	-1.89	-2.20	-2.36
29	-.12	-.26	+.9[illegible]	+.94	+1.18	+1.08	-1.30	-1.48	-1.61	-1.84	-2.13	-2.25
30	-.10	-.18	+1.00	+.94	+1.18	+1.14	-1.38	-1.64	-1.35	-1.61	-2.09	-2.21
31	-.16	-.23	+1.00	+.88			-1.07	-1.66			-2.11	-2.22

Taylor County

35. Brooks-Scanlon Corporation. NE¼ sec. 10, T. 5 S., R. 8 E., about 1 mile southeast of Foley. Unused drilled industrial well, diameter 12 to 17 inches, depth 245 feet, cased to 189 feet. Measuring point, top of 17-inch casing, at land-surface datum. Continuous water-stage recorder installed June 18, 1946.

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	June	
	High	Low
19	2.26	2.39
20	2.39	2.49
21	2.49	2.59
22	2.59	2.66

High and low daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	....	....	1.14	1.19	0.54	0.60	0.28	0.38	1.37	1.41	....	....
2	....	....	1.15	1.21	.60	.64	.38	.45	1.36	1.44	....	....
3	2.75	2.90	1.21	1.30	.66	.74	.45	.53	1.44	1.50	2.24	2.31
4	2.91	3.01	....	....	.74	.83	.52	.58	1.47	1.54	2.27	2.33
5	2.98	3.06	....	....	.72	.89	.57	.60	1.49	1.57	2.28	2.36
6	3.05	3.17	....	....	.88	.98	.60	.66	1.52	1.61	2.30	2.40
7	3.17	3.29	....	....	.85	1.00	.56	.65	1.54	1.61	2.33	2.46
.8	3.27	3.37	.88	1.03	.63	.89	.36	.57	1.54	1.62	2.37	2.48
9	3.35	3.47	.71	1.07	.61	.75	.54	.66	1.57	1.67	2.40	2.47
10	3.45	3.53	.72	.81	.70	.83	.64	.76	1.61	1.70	2.40	2.47
11	3.44	3.55	.75	.85	.79	.90	.70	.79	1.65	1.70	2.42	2.48
12	3.49	3.58	.79	.89	.87	.95	.57	.79	1.68	1.74	2.34	2.48
13	3.55	3.64	.72	.96	.92	1.00	.64	.77	1.71	1.77	2.32	2.38
14	3.61	3.65	.67	.83	.75	1.00	.74	.83	1.75	1.80	2.37	2.44
15	3.66	3.75	.60	.76	.52	.75	.82	.88	1.79	1.85	2.43	2.50
16	3.65	3.78	.60	.61	.39	.58	.85	.90	1.83	1.89	2.48	2.55
17	3.65	3.72	.57	.63	.39	.51	.89	.92	1.84	1.90	2.52	2.58
18	3.72	3.84	.57	.62	.11	.52	.92	1.00	1.85	1.94	2.54	2.57
19	3.83	3.89	.43	.60	...	...	.99	1.06	1.89	1.95	2.58	2.63
20	3.89	3.95	.36	.52	...	...	1.04	1.10	1.88	1.95	2.55	2.62
21	3.95	3.99	.42	.52	...	...	1.05	1.15	1.88	1.97	2.26	2.55
22	3.90	3.99	.50	.60	...	...	1.11	1.19	1.90	2.00	2.30	2.39
23	3.74	3.94	.57	.62	.53	.67	1.14	1.23	1.95	2.03	2.33	2.40
24	3.71	3.78	.60	.63	...	...	1.17	1.23	....	....	2.35	2.45
25	3.77	3.88	.63	.75	...	...	1.18	1.28	....	....	2.42	2.51
26	3.81	3.91	.48	.52	...	...	1.21	1.33	....	....	2.48	2.54
27	3.78	3.89	.48	.60	...	...	1.30	1.36	....	....	2.52	2.55
28	3.24	3.93	.47	.62	.02	.14	1.29	1.36	....	....	2.53	2.58
29	2.87	3.24	.28	.49	.10	.23	1.27	1.34	....	....	2.54	2.56
30	1.80	2.78	.25	.40	.23	.28	1.32	1.37	....	....	2.54	2.64
31	1.19	1.80	.40	.54			1.35	1.40			2.57	2.67

Wakulla County

2. O. P. Shields. At St. Marks, about 75 feet north of Shields' Restaurant. Used drilled domestic well, diameter 4 inches, depth 103 feet, cased to 22 feet. Measuring point, top of 4-inch casing, at land-surface datum and 3.4 feet above mean sea level. Water levels, in feet below land-surface datum, 1946: Oct. 21, 1.70; Nov. 18, 1.79.

11. U. S. Dept. of Agriculture. 3 miles southwest of Panacea at fire tower, on Ochlocknee Bay. Used drilled domestic well, diameter 4 inches, depth 70 feet, cased to 45 feet. Measuring point, top of 4-inch casing, 1.0 foot above land-surface datum. Water levels, in feet below land-surface datum, 1946: Oct. 21, 7.38; Nov. 18, 7.28.

Walton County

13. O. H. Saltsman. NE¼NE¼ sec. 35, T. 1 S., R. 19 W., at Point Washington, 10 feet south of a pumphouse. Used drilled public-supply well, diameter 8 inches, depth 450 feet. Measuring point, top of 8-inch cross, 1.75 feet above land-surface datum and 7.75 feet above mean sea level. Water level, in feet above land-surface datum, 1946: Nov. 19, 20.4.

14. Walton County. NW¼NE¼ sec. 35, T. 1 S., R. 19 W., at former schoolhouse in Point Washington. Used drilled public-supply well, diameter 6 inches, depth 400 feet. Measuring point, faucet on well, 3.0 feet above land-surface datum and 12.0 feet above mean sea level. Water level, in feet above land-surface datum, 1946: Nov. 19, 9.0.

Washington County

4. Town of Carryville. SW¼SW¼ sec. 2, T. 4 N., R. 16 W., 50 feet north of Louisville & Nashville Railroad, in a pumphouse. Used drilled public-supply well, diameter 4 inches, depth 785 feet. Measuring point, top of 4-inch casing, 1.0 foot above land-surface datum and 59.0 feet above mean sea level. Water levels, in feet below land-surface datum, 1946. Sept. 26, 10.73; Oct. 23, 11.05; Nov. 21, 11.65.

5. Town of Vernon. NW¼NE¼ sec. 35, T. 3 N., R. 15 W., at Vernon, in a pumphouse under a water tank. Used drilled public-supply well, diameter 6 inches, depth 190 feet, cased to 135 feet. Measuring point, top of 6-inch casing, 1.0 foot above land-surface datum. Water levels, in feet below land-surface datum, 1946: Sept. 26, 12.1; Oct. 23, 14.17; Nov. 21, 16.33.

GEORGIA

By S. M. Herrick and H. E. LeGrand

PROGRAM OF WORK

Measurements of water level and artesian pressure in selected wells in Georgia, begun in 1938 in cooperation with the Georgia State Department of Mines, Mining and Geology, were continued in 1946. Since 1938, when the program embraced wells in only three counties--Chatham, Dougherty and Glynn--the observation-well program was steadily expanded until in 1943 it included 231 wells in 29 counties, of which 7 counties were in the northern part of the State. During 1944, chiefly due to shortage of personnel, this work was rather sharply curtailed but has, with some exceptions, been subsequently carried forward on a level comparable to that of 1943. In 1946 automatic water-stage recorders were maintained on 6 wells during the entire year and 789 individual measurements of water level and artesian pressure were made on wells not equipped with water-stage recorders. The measurements in Baker and Early Counties were made by the Emory University Field Station, 11 miles southwest of Newton. These measurements form part of the hydrologic data collected by that station in connection with its research on malaria control.

The observation-well program in the northern counties was begun in 1943 when it consisted of 42 drilled and 2 dug wells. Since that time, for various reasons, measurements on some of these wells have had to be discontinued until, in 1946, the program included only 43 wells which are divided among the counties as follows: Clayton, 5; Cobb, 17; DeKalb, 6; Fulton, 13; Henry, 1; Spalding, 1. The city of Atlanta and its environs occupy parts of four of these counties.

Water-level records for 1945 have been published in Water-Supply Paper 1024, pp. 86-110.

The following table lists all counties in Georgia for which records of water-level measurements are given in this report.

Distribution, by counties, of observation wells in Georgia, 1946

County	(Not including recorders) Number of wells at end of 1946	Tape measurements and pressure readings	Number of wells with water-stage recorders in 1946
Appling	1	4	0
Baker	7	239	0
Brantley	2	2	0
Bryan	25	50	0
Camden	17	31	0
Charlton	1	4	0
Chatham	55	136	3
Clayton	5	12	0
Cobb	17	35	0
Coffee	1	0	0
DeKalb	6	18	0
Dougherty	1	0	0
Early	3	75	0
Effingham	5	6	0
Evans	1	4	0
Fulton	12	30	1
Glynn	13	27	1
Henry	1	13	0
Liberty	14	43	0
Long	1	3	0
McIntosh	15	37	0
Mitchell	1	1	0
Montgomery	1	1	0
Pierce	2	6	0
Screven	2	3	0
Spalding	0	0	1
Ware	1	1	0
Wayne	4	8	0

OCCURRENCE OF GROUND WATER

The geologic map of Georgia shows the State divided into three major geologic provinces, namely, the Paleozoic area, the crystalline area, and the Coastal Plain. The Paleozoic area, which is in the northwestern part of the State, is the smallest of the three, and no observation wells have yet been established in it. The crystalline area is considerably larger than the Paleozoic and lies south and east of it. Observation wells have been established and maintained in six counties that lie in the crystalline area, but most of the wells are in the four counties in which the city of Atlanta and its environs are situated. The Coastal Plain is the largest of the three provinces and larger than the other two combined. It covers an area of about 35,000 square miles, or about 60 percent of the entire State. It embraces all that part of the State lying south of the Fall Line, which passes approximately through Columbus, Macon, Milledgeville, and Augusta, and marks the northern limit of the sedimentary rocks, which overlie the older crystalline rocks. More than 75 percent of the observation wells in Georgia are in this province. The Coastal Plain is underlain

by water-bearing formations that range in age from Upper Cretaceous to Recent.

The observation wells in the crystalline area of Georgia end in igneous and metamorphic rocks or surficial material weathered from them. Most of the observation wells in the Coastal Plain for which there are records end in limestones of Oligocene or upper Eocene age, which are the principal artesian aquifers in southeast Georgia. Chatham County well 343, a shallow well 12 miles southwest of Savannah, ends in deposits of Recent age and therefore serves to illustrate the fluctuation of the water table in formations of that age in this area.

FLUCTUATIONS OF WATER LEVEL

In wells in the crystalline area of Georgia, water levels fluctuate markedly from season to season with the precipitation. The water table, therefore, stands highest with respect to the surface of the ground during the months of April and May, when the precipitation is greatest, and lowest in December or January, when the precipitation is least. The fluctuations also differ from well to well, the proximity of the well to a main drainage channel and its position in relation to the topography of the surrounding country determining, in large measure, the fluctuations of its water level. For example, in DeKalb County well 40, which is near a small perennial surface stream, the fluctuation in water level for the year was only 0.81 foot, whereas in well 39, in the same county, which is not near a surface stream, the fluctuation for the year was 5.05 feet. Again in Cobb County well 83, which is in a broad valley, the fluctuation for the year was 1.86 feet, whereas, in the same county, in well 85, which is on top of a high hill, it was 11.42 feet and this difference existed in spite of the fact that the two wells are near each other. Other factors responsible for differences in fluctuation from well to well are depth and method of construction; dug wells seem to respond much more sharply to seasonal precipitation than drilled wells.

In the Coastal Plain of Georgia water levels in wells ending in the Ocala limestone of upper Eocene age rose during 1946. In the Savannah area, which includes the industrial area northeast of the city proper, artesian water levels averaged about $2\frac{1}{2}$ feet higher during 1946 than during

1945. This condition is believed to be a direct result of decreased pumpage during 1946 in the area of heaviest pumpage, that is, the industrial area of Savannah. Accordingly, in 1946 the total metered pumpage in the Savannah area, which is the combined pumpage of the Savannah municipal waterworks and the Union Bag and Paper Corporation, decreased by 575,015,914 gallons over that of 1945. The artesian water levels in Chatham County, outside the city of Savannah proper, showed an average rise of about 1 foot. In Wilmington and Tybee Islands the average increase during 1946 amounted to 0.93 foot. In the southern part of Chatham County water levels showed an average increase of 1.06 feet over those of 1945. In the northern part of the county, as far north as the county line, the average increase in water levels was 0.77 foot, while in the western part of the county the water levels showed an increase of 0.96 foot over the average for 1945.

In Bryan County all water levels averaged somewhat higher in 1946 than in 1945, ranging from 0.1 foot to 0.96 foot higher in 1946. Average water levels in observation wells in Liberty County were above those recorded during 1945, ranging between 0.15 foot and 0.99 foot higher in 1946. Likewise, in McIntosh County nearly all wells showed increases in average water levels, the average increase ranging between 0.61 foot and 0.72 foot higher in 1946 than in 1945. On the whole, average water levels in Glynn County remained practically the same as compared with those recorded during 1945, the average for all observation wells in this county being about 0.2 foot lower than the average for these same wells in 1945. This condition prevailed during 1946 in spite of decreased heavy pumpage in 1946 as compared with 1945. Accordingly, the total metered pumpage in the Brunswick area, which is the combined pumpage of the Peoples Water Service Company (Brunswick municipal waterworks) and the Brunswick Pulp and Paper Company, decreased by 91,843,230 gallons during 1946 as compared with 1945. Excluding the St. Marys area, water levels in Camden County averaged about 0.78 foot higher in 1946 than in 1945. In the St. Marys area, due to an increase in pumpage of 50,000,000 gallons during 1946 as compared with 1945, by the St. Marys Kraft Corporation, an average decline in water levels amounting to approximately 0.86 foot was recorded during 1946. Most of the increased water levels in the Coastal counties

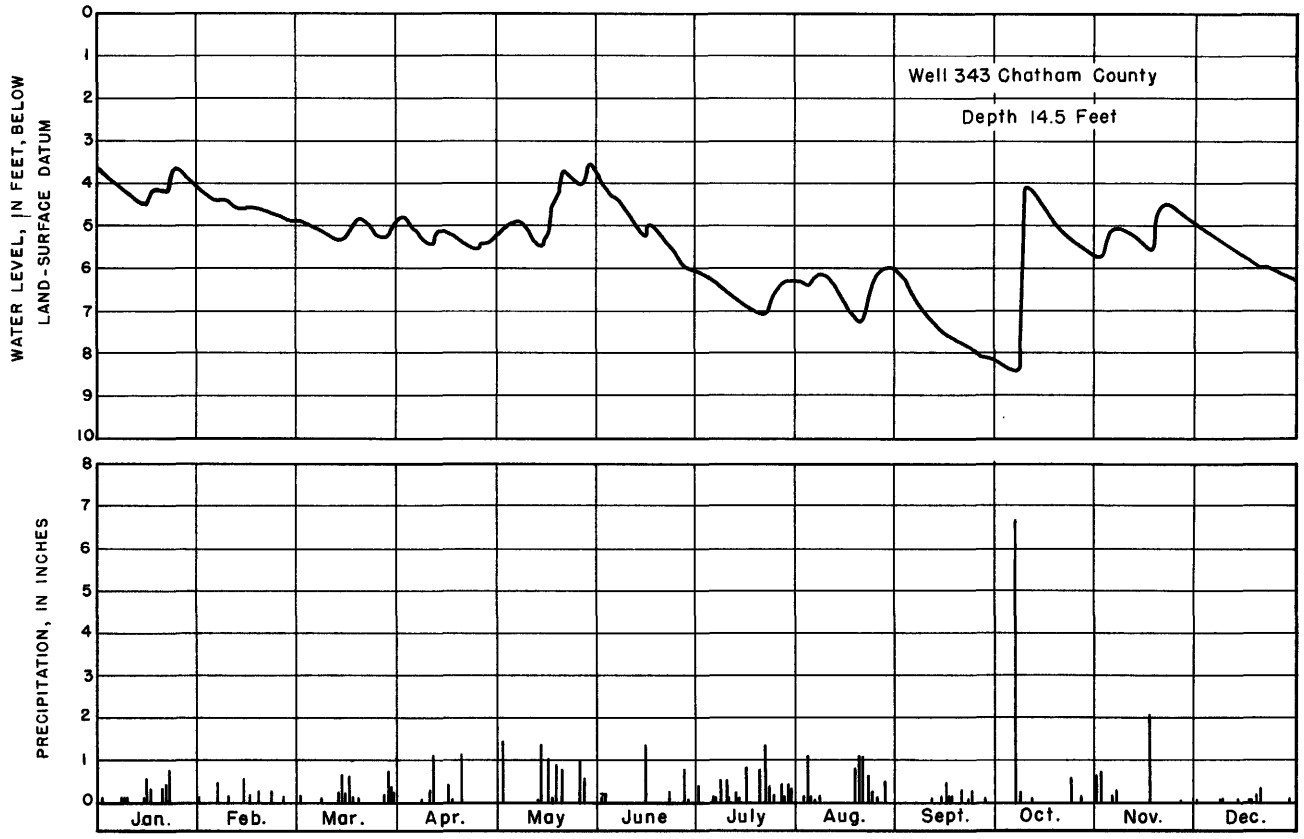

Figure 7.--Graphs showing fluctuations of water level in well 343, Chatham County, Ga., and precipitation at Barbour Lathrop Plant Introduction Station in 1946.

appear to have been due to natural conditions, as the artesian water levels in wells in Camden, Wayne, Pierce, Brantley, and Charlton Counties, which are west and south of Glynn County, were 0.22 foot to 1.01 feet higher during 1946 than were the average water levels for these same wells in 1945.

Well 343, Chatham County, is at the U. S. Plant Introduction Station, 12 miles southeast of Savannah. This is a dug well, is 14.5 feet in depth, and shows the effect of precipitation (see fig. 7). Accordingly, the average water level for this well was 0.16 foot higher in 1946 as compared with 1945, in spite of the fact that this area received 10.9 fewer inches of rainfall in 1946. The reason for this is thought to be due to better distribution of rainfall during 1946 as compared with 1945.

In North Georgia, where water-table conditions prevail, and consequently where the effect of precipitation is felt, all water levels, with the exception of Cobb and Spalding Counties, averaged somewhat higher in 1946 than in 1945. With few exceptions, water levels in Cobb County were lower in 1946. There are several basic causes accounting for this condition, but the chief cause is thought to be a deficiency in rainfall during 1946 as compared with 1945.

Well 12, Spalding County, at the Georgia State Experiment Station, Experiment, is a dug well, 30.5 feet in depth, and shows the effect of precipitation. This well showed an average annual increase in 1946 amounting to 1.95 feet over that of 1945, or an increase of about 2 feet. This condition prevailed here in spite of a deficiency in total rainfall in 1946 of 13.48 inches. Here again, as in well 343, Chatham County, the increase in water level in this well during 1946 is thought to be due to better distribution of rainfall during 1946 as compared with 1945.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Appling County

3 (*945, p. 55; *987, p. 50; 1017, p. 176). Filtered Rosin Products Co. Near Baxley, about 0.1 mile east of Baxley city-limit sign, and 300 feet south of U. S. Highway 341. Water levels, in feet below land-surface datum, 1946: Mar. 14, 128.77; July 15, 128.96; Sept. 20, 128.60; Dec. 16, 129.01.

Baker County

1 (*937, p. 33; 945, p. 55; *987, p. 50; 1017, p. 176). Emory University Field Station well 1. Fred Cross. About 1.1 miles east of Baker-Miller county line, 0.3 mile north of State Highway 91, about 0.25 mile northwest of Nochaway Church, 30 feet southwest of pond.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	0.02	May 12	0.79	Aug. 30	0.09	Nov. 1	0.75
Mar. 1	.66	June 3	.03	Oct. 3	.95	Dec. 16	1.36
Apr. 4	.51	28	2.78				

5 (*937, p. 34; 945, p. 56; *987, p. 51; 1017, p. 176). Emory University Field Station well 5. D. G. Jones. About 1.8 miles northwest of Crestview, 75 feet east of county road.

Water level, in feet below land-surface datum, 1946

Jan. 2	3.49	Apr. 10	4.41	July 10	10.32	Oct. 9	12.77
9	2.89	17	5.28	17	11.84	16	13.70
16	2.13	24	5.95	24	4.74	23	14.57
23	2.44	May 1	4.06	31	5.69	30	15.33
30	3.53	8	4.63	Aug. 6	5.97	Nov. 6	15.85
Feb. 6	4.25	15	3.97	14	5.35	13	16.39
13	4.31	22	2.38	21	6.96	20	16.96
20	4.02	29	3.81	28	8.25	27	17.51
27	4.32	June 5	4.42	Sept. 4	8.99	Dec. 11	18.53
Mar. 6	5.10	12	5.45	11	10.02	18	18.97
13	5.90	19	6.61	18	11.25	23	19.25
20	5.56	26	7.92	25	12.31	30	19.61
Apr. 3	3.24	July 3	9.22	Oct. 2	12.11		

9 (*937, p. 35; 945, p. 56; *987, p. 51; 1017, p. 176). Emory University Field Station well 9. Matthew Clias. About 5.2 miles north of Elmodel, 170 feet east of county road, about 0.25 mile east of State Highway 37.

Water level, in feet below land-surface datum, 1946

Jan. 18	6.55	May 7	8.60	July 25	9.51	Nov. 1	14.08
Mar. 1	7.99	June 3	7.50	Aug. 30	9.37	Dec. 16	17.43
Apr. 4	6.85	28	10.85	Oct. 3	11.95		

12 (*937, p. 36; 945, p. 56; *987, p. 51; 1017, p. 177). Emory University Field Station well 12. Alton Kidd. 0.14 mile north of Milford, 75 feet east of county road.

Water level, in feet below land-surface datum, 1946

Jan. 2	20.83	Apr. 3	6.18	July 3	10.39	Oct. 2	10.61
9	17.82	10	7.02	10	10.81	9	10.98
16	12.94	17	7.76	17	11.29	16	11.45
23	9.45	24	8.45	24	10.42	23	11.81
30	8.65	May 1	8.87	31	8.29	30	12.12
Feb. 6	8.62	8	9.10	Aug. 6	7.96	Nov. 6	12.51
13	8.51	15	9.19	14	7.68	13	12.96
20	17.70	22	5.51	21	8.43	20	13.42
27	7.99	29	6.32	28	9.07	27	13.71
Mar. 6	8.43	June 5	7.32	Sept. 4	8.87	Dec. 11	14.66
13	8.80	12	8.14	11	9.38	18	15.22
20	9.10	19	8.95	18	9.81	23	15.64
27	9.18	26	9.69	25	10.20	30	16.13

15 (*937, p. 36; 945, p. 57; *987, p. 51; 1017, p. 177). Emory University Field Station well 15. R. L. Hall. About 7.3 miles north of Baker County courthouse at Newton, about 1,500 feet east of county road at Old Hickory Hill Plantation.

15--Continued.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	1.84	May 2	2.43	July 25	2.21	Nov. 1	9.81
Mar. 1	3.26	June 3	a .24	Aug. 30	5.57	Dec. 16	12.05
Apr. 4	.86	28	2.28	Oct. 3	8.67		

a Above land-surface datum.

25 (*937, p. 37; 945, p. 57; *987, p. 52; 1017, p. 177). Emory University Field Station well 35. P. H. Thompson, Jr. About 3.6 miles west of Patmos, 1 mile east of Baker-Early county line, about 0.6 mile north of Pine Grove church.

Water level, in feet below land-surface datum, 1946

Jan. 2	4.67	Apr. 10	5.24	July 10	7.77	Oct. 9	9.57
9	4.69	17	6.73	17	7.79	16	9.93
16	3.52	24	7.81	24	2.63	23	10.45
23	3.76	May 1	6.38	31	3.95	30	10.60
30	4.87	8	7.03	Aug. 6	4.26	Nov. 6	10.94
Feb. 6	6.19	15	7.11	14	5.25	13	11.58
13	6.21	22	3.78	21	6.53	20	12.40
20	4.52	29	5.10	28	7.20	27	13.04
27	5.09	June 5	6.27	Sept. 4	7.62	Dec. 4	13.72
Mar. 6	6.06	12	7.50	11	7.97	11	14.51
13	7.43	19	8.21	17	8.33	18	15.16
20	7.15	26	8.83	25	8.52	23	15.60
Apr. 3	3.84	July 3	8.46	Oct. 2	9.01	30	16.00

29 (*937, p. 38; 945, p. 58; *987, p. 52; 1017, p. 177). Emory University Field Station well 39. Ichaway Plantation, Inc. (W. R. Woodruff). About 1.6 miles northeast of Pilgrims Home church, 0.5 mile southeast of State Highway 91.

Water level, in feet below land-surface datum, 1946

Jan. 2	3.15	Apr. 10	2.70	July 10	8.36	Oct. 9	9.99
9	2.51	17	3.36	17	10.76	16	11.90
16	1.75	24	4.24	24	7.19	23	(a)
23	1.48	May 1	3.94	30	5.46	30	12.44
30	2.17	8	4.59	Aug. 6	4.13	Nov. 6	(a)
Feb. 6	2.96	15	5.11	14	4.55	13	(a)
13	2.96	22	1.12	21	6.37	20	(a)
20	3.44	29	1.86	28	8.70	27	(a)
27	3.76	June 5	1.92	Sept. 4	8.24	Dec. 11	(a)
Mar. 5	4.03	12	3.14	10	9.89	18	(a)
13	4.79	19	4.41	18	11.33	23	(a)
20	3.22	26	6.23	25	6.69	30	(a)
Apr. 3	2.03	July 3	7.45	Oct. 2	7.54		

a Dry.

Brantley County

1 (*937, p. 39; 945, p. 58; *987, p. 52; 1017, p. 178). N. S. McVeigh. At Waynesville, on north side State Highway 50. No measurements made in 1946.

9 (*945, p. 58; *987, p. 52; 1017, p. 178). U. S. Government. About 1.4 miles north of Atlantic Coast Line Railroad at Waynesville, about 0.1 mile east of county road from Waynesville to Browntown, at site of abandoned Civilian Conservation Corps camp. Water levels, in feet below land-surface datum, 1946: Sept. 19, 1.66; Dec. 15, 2.04.

Bryan County

41 (*886, p. 69; 907, p. 39; *937, p. 39; 945, p. 58; 987, p. 53; 1017, p. 178). U. S. War Department. At Roding. No measurements made in 1946.

43 (*945, p. 58; *987, p. 53; 1017, p. 178). U. S. War Department. At Roding, 0.5 mile west of State Highway 63, south side State Highway 144. No measurements made in 1946.

50 (*945, p. 58; *987, p. 53; 1017, p. 178). U. S. War Department. At Clyde, about 100 feet southwest of intersection of State Highway 63 with county road. No measurements made in 1946.

51 (*886, p. 71; 907, p. 39; 937, p. 39; 945, p. 59; *987, p. 53; 1017, p. 178). U. S. War Department. At Clyde, about 600 feet southwest of former site of schoolhouse. No measurements made in 1946.

52 (*886, p. 71; 907, p. 39; *937, p. 39; 945, p. 59; *987, p. 53; 1017, p. 178). U. S. War Department. At Clyde, a short distance northeast of former site of schoolhouse. Water levels, in feet above land-surface datum, 1946: Mar. 10, 6.2; Sept. 17, 5.6; Dec. 13, 6.0.

55 (*945, p. 59;*987, p. 53; 1017, p. 178). U. S. War Department. At Clyde, a short distance east of former site of old Bryan County courthouse. Water levels, in feet below land-surface datum, 1946: Mar. 10, 1.75; Sept. 17, 2.16; Dec. 13, 1.89.

63 (*907, p. 39; *937, p. 39; 945, p. 59; *987, p. 53; 1017, p. 178). U. S. War Department. About 7 miles west of Richmond Hill, 4.5 miles north of Fleming, on east side of county road that connects Bashlor's Bridge with U. S. Highway 17. No measurements made in 1946.

71 (*907, p. 39; *937, p. 39; 945, p. 59; *987, p. 53; 1017, p. 178). U. S. War Department. On south side of River Road, 5.5 miles west of State Highway 63. No measurements made in 1946.

85 (*937, p. 39; 945, p. 59; *987, p. 53; 1017, p. 178). Henry Ford. About 0.1 mile southwest of Belfast road, about 150 feet southeast of Seaboard Air Line Railway. Water levels, in feet above land-surface datum, 1946: Mar. 10, 7.22; July 12, 6.40; Sept. 17, 5.95; Dec. 13, 6.30.

87 (*886, p. 71; 907, p. 39; *937, p. 40; 945, p. 59; *987, p. 53; 1017, p. 178). Henry Ford. At Richmond Hill, about 500 feet west of intersection of U. S. Highway 17 and Bryan Neck road. Water levels, in feet above land-surface datum, 1946: Mar. 10, 1.15; July 12, 0.63; Sept. 17, 0.33; Dec. 13, 1.00.

87a (*945, p. 59; *987, p. 54; 1017, p. 178). Henry Ford. At Richmond Hill, about 500 feet west of intersection of U. S. Highway 17, and Bryan Neck road. Water levels, in feet with reference to land-surface datum, 1946: Mar. 10, +0.46; July 12, -0.13; Sept. 17, -0.34; Dec. 13, -0.36.

96 (*907, p. 39; *937, p. 40; 945, p. 59; *987, p. 54; 1017, p. 178). J. W. Harden. About 1.7 miles south of Keller, about 300 feet east of Bryan Neck road. Water level affected by tide. Water levels, in feet above land-surface datum, 1946: Mar. 10, 8.07; July 12, 8.30; Sept. 17, 8.39; Dec. 13, 9.40.

112 (*907, p. 39; *937, p. 40; 945, p. 60; *987, p. 54; 1017, p. 178). U. S. War Department. 12 miles west along River Road from State Highway 63, on south side of road. No measurements made in 1946.

119 (*907, p. 39; *937, p. 40; 945, p. 60; *987, p. 54; 1017, p. 179). Henry Ford. At Kilkenny, about 4.5 miles southeast of Keller. Water level affected by tide. Water levels, in feet above land-surface datum, 1946: July 12, 7.30; Dec. 13, 7.74.

143 (*937, p. 40; 945, p. 60; *987, p. 54; 1017, p. 179). A. M. Casin. Near west end Morgan Bridge over Ogeechee River. On north side of Pine Barren road. No measurements made in 1946.

144 (*987, p. 54; 1017, p. 179). U. Butler. At Eldora, about 200 feet east of county road on north side two-story brick store. Water levels, in feet below land-surface datum, 1946: Mar. 9, 20.38; Dec. 11, 20.45.

145 (*987, p. 54; 1017, p. 179). Henry Ford. About 0.3 mile southeast of U. S. Highway 17, east side of Belfast road, north side of turpentine still. No measurements made in 1946.

146 (*937, p. 40; 945, p. 60; *987, p. 54; 1017, p. 179). L. W. Smith. About 2.25 miles northeast of Lanier, south side State Highway 30, at site of abandoned Civilian Conservation Corps camp. Water levels, in feet below land-surface datum, 1946: Mar. 6, 21.21; May 8, 20.98; Dec. 11, 21.33.

148 (*937, p. 40; 945, p. 60; *987, p. 54; 1017, p. 179). Henry Ford. At Keller, about 80 feet west of Bryan Neck road and about 200 feet north of Belfast road. Water levels, in feet above land-surface datum, 1946: Mar. 10, 6.04; July 12, 5.58; Sept. 17, 5.65; Dec. 13, 5.85.

149 (*937, p. 40; 945, p. 60; *987, p. 54; 1017, p. 179). Henry Ford. About 5.5 miles southeast of Richmond Hill, at the Jack Griswold Place. Water levels, in feet above land-surface datum, 1946: Mar. 10, 4.35; July 12, 3.87; Dec. 13, 4.12.

150 (*945, p. 60; *987, p. 54; 1017, p. 179). Henry Ford. At Richmond Hill, 1 mile north of U. S. Highway 17, about 200 feet east of State Highway 63. Water levels, in feet above land-surface datum, 1946: Mar. 10, 9.94; July 12, 9.95; Sept. 17, 9.39; Dec. 13, 10.26.

151 (*945, p. 60; *987, p. 55; 1017, p. 179). Henry Ford. About 0.9 mile west of Keller, west bluff of Tivoli River, north side of Belfast road. Water levels, in feet above land-surface datum, 1946: Mar. 10, 7.12; July 12, 6.58; Sept. 17, 6.65; Dec. 13, 6.92.

161 (*945, p. 60; *987, p. 55; 1017, p. 179). Henry Ford. At Kilkenny, about 4.5 miles southeast of Keller, about 300 feet north of club house near edge of marsh, at oyster house. Water level affected by tide. Water levels, in feet above land-surface datum, 1946: July 12, 11.20; Dec. 13, 11.35.

162 (*987, p. 55; 1017, p. 179). Henry Ford. About 7.5 miles southeast of Richmond Hill, about 0.1 mile west of Fort McAllister, on south bank of Ogeechee River. No measurements made in 1946.

171 (*987, p. 55; 1017, p. 179). Deal Purvis. At Belfast, about 110 feet east of bluff, near center of nearly right-angle bend in Belfast River. Water level affected by tide. Water levels, in feet above land-surface datum, 1946: Mar. 10, 8.31; July 12, 7.55; Sept. 17, 7.89; Dec. 13, 7.89.

Camden County

3 (Well 20 in *886, p. 71; 907, p. 40; *937, p. 40; 945, p. 60; *987, p. 55; 1017, p. 179). Town of St. Marys. On east side of State Highway 40, 0.25 mile north of Riverview Hotel, St. Marys. No measurements made in 1946.

8 (*886, p. 71; 907, p. 40; *937, p. 41; 945, p. 60; *987, p. 55; 1017, p. 179). M. L. Hill. In Kingsland, at owner's residence. Water levels, in feet above land-surface datum, 1946: Mar. 13, 23.93; July 14, 23.96; Sept. 19, 23.89; Dec. 15, 24.43.

12 (*907, p. 40; *937, p. 41; 945, p. 60; *987, p. 55; 1017, p. 179). Mr. J. J. Godley. At Kingsland, about 300 feet north of St. Marys road, on west side of U. S. Highway 17. Water levels, in feet above land-surface datum, 1946: Mar. 13, 23.23; July 14, 23.77; Sept. 19, 24.64; Dec. 15, 24.38.

14 (*945, p. 61; *987, p. 56; 1017, p. 180). R. T. Clarke. At Scotchville, on northeast side of St. Marys road, 4.5 miles southeast of Kingsland. Measurements discontinued.

18 (*886, p. 71; 907, p. 40; *937, p. 41; 945, p. 61; *987, p. 56; 1017, p. 180). L. O. Harris. At St. Marys, about 0.8 mile north of Riverview Hotel, on east side of State Highway 40. Water levels, in feet above land-surface datum, 1946: Mar. 13, 29.65; July 14, 32.06; Sept. 19, 26.90; Dec. 15, 28.94.

19 (*886, p. 71; 907, p. 40; *937, p. 41; 945, p. 61; *987, p. 56; 1017, p. 180). Camden Training School. At St. Marys, 1 mile north of Riverview Hotel, on east side of State Highway 40. No measurements made in 1946.

39 (*886, p. 72; 907, p. 40; *937, p. 41; 945, p. 61; *987, p. 56; 1017, p. 180). Southern Fertilizer & Chemical Co. At St. Marys, about 1.5 miles north of Riverview Hotel near west bank of North River. No measurements made in 1946.

42 (*945, p. 61; *987, p. 56; 1017, p. 180). South Camden Turpentine Co. 0.2 mile east of Spring Bluff, on northeast side of road to Dover Bluff. No measurements made in 1946.

59 (*937, p. 42; 945, p. 61; *987, p. 56; 1017, p. 180). Zack Colson. About 3.5 miles southeast of Woodbine, 0.6 mile south of Satilla River. Water level, in feet above land-surface datum, 1946: Mar. 12, 30.74.

61 (*907, p. 41; *937, p. 42; 945, p. 61; *987, p. 56; 1017, p. 180). Camden Properties. At Billysville, 2 miles east of Coleburg, at west end of tenant quarters. Water levels, in feet above land-surface datum, 1946: Mar. 12, 36.84; July 14, 37.07; Sept. 19, 38.06; Dec. 15, 37.58.

66 (*886, p. 72; 907, p. 41; 937, p. 42; 945, p. 61; *987, p. 56; 1017, p. 180). Arthur Lucas. At Point Peter, about 2 miles east of St. Marys. At owner's house. No measurements made in 1946.

68 (*907, p. 41; *937, p. 42; 945, p. 61; *987, p. 56; 1017, p. 180). Kings Bay Club. At Kings Bay, about 10 miles east of Kingsland and about 4 miles north of St. Marys. Water levels, in feet above land-surface datum, 1946: Mar. 13, 44.24; Dec. 15, 44.12.

78 (*907, p. 41; *937, p. 42; 945, p. 61; *987, p. 56; 1017, p. 180). White Oak Public School. At White Oak, on west side of Seaboard Railway, at schoolhouse. Water level, in feet above land-surface datum, 1946: Mar. 12, 41.97.

87 (*937, p. 42; 945, p. 61; *987, p. 56; 1017, p. 180). Camden Properties. At Cabin Bluff, 13 miles southeast of Woodbine, near west bank of Cumberland River. No measurements made in 1946.

92a (*937, p. 42; 945, p. 61; *987, p. 56; 1017, p. 180). Camden Race Track. About 2.2 miles southeast of Kingsland, north side of St. Marys road, at race track. Water levels, in feet above land-surface datum, 1946: Mar. 13, 33.34; July 14, 33.19; Sept. 19, 34.05; Dec. 15, 33.94.

118 (*937, p. 43; 945, p. 61; *987, p. 56; 1017, p. 180). Oscar Silcox. About 9.5 miles west of Kingsland on old Folkston road, about 0.1 mile south of road. Water levels, in feet above land-surface datum, 1946: Mar. 13, 38.83; July 14, 38.56; Dec. 15, 40.11.

144 (*907, p. 41; *937, p. 43; 945, p. 61; *987, p. 57; 1017, p. 180). T. C. Haygood. At Woodbine, on east side of U. S. Highway 17, 0.5 mile south of road to Folkston. Water levels, in feet above land-surface datum, 1946: Mar. 12, 36.08; July 14, 36.06; Sept. 19, 36.36; Dec. 15, 35.95.

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Charlton County

7 (*937, p. 43; 945, p. 62; *987, p. 57; 1017, p. 181). State of Georgia. 1 mile southwest of Folkston, at State convict camp. Water levels, in feet below land-surface datum, 1946: Mar. 13, 13.48; July 14, 13.94; Sept. 19, 12.95; Dec. 15, 13.34.

Chatham County

3 (*845, p. 53; 886, p. 72; 906, p. 41; *937, p. 43; 945, p. 62; *987, p. 57; 1017, p. 181). City of Savannah. In Savannah, at west side of Stiles Avenue, about 600 feet south of Louisville road. Water level affected by pumpage in Savannah area. Average daily range of fluctuation during 1946 was 3.3 feet.

Highest and lowest weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week	Date	Highest level	Date	Lowest level
Jan. 6-11	Jan. 7	46.74	Jan. 11	53.02
20-26	21	42.92	25	52.10
27-Feb. 2	28	43.06	Feb. 1	53.37
Feb. 3-9	Feb. 4	41.81	8	50.17
10-16	11	42.15	13	50.49
17-23	18	41.74	22	50.09
24-Mar. 2	25	45.63	27	53.63
Mar. 3-9	Mar. 3	48.52	Mar. 8	55.66
10-15	11	48.77	15	60.69
24-27	25	53.60	26	60.43
31-Apr. 4	Apr. 1	57.60	Apr. 4	63.96
Apr. 7-10	8	54.00	10	63.35
21-25	22	53.27	25	60.95
May 5-8	May 6	55.84	May 6	62.73
12-17	13	55.74	14	61.91
18-24	20	58.03	24	61.10
June 2-6	June 3	57.92	June 6	63.06
23-28	24	59.21	26	63.86
29-July 5	30	58.28	July 2	63.40
July 6-12	July 6	56.83	9	66.00
13-19	13	58.50	19	66.24
20-26	21	59.11	26	63.81
27-Aug. 2	29	59.16	31	63.65
Aug. 3-9	Aug. 4	58.70	Aug. 8	63.96
20-25	25	61.36	23	65.54
Sept. 1-6	Sept. 3	57.24	Sept. 1	63.16
11-16	16	60.36	11	65.24
17-23	23	59.23	19	63.20
29-Oct. 4	30	59.34	Oct. 1	63.75
Oct. 5-11	Oct. 10	58.61	11	63.77
12-18	16	57.70	14	62.52
19-25	21	57.63	23	62.20
26-Nov. 1	28	54.60	26	60.75
Nov. 2-6	Nov. 4	52.34	Nov. 5	60.62
22-27	25	52.93	22	61.40
29-30	29	53.17	30	62.45
Dec. 8-10	Dec. 9	53.12	Dec. 8	58.00
15-20	16	53.11	20	58.21
21-28	28	45.90	24	56.91
31	31	48.81	31	52.96

28 (*886, p. 72; 907, p. 42; *937, p. 44; 945, p. 63; *987, p. 58; 1017, p. 181). Reliance Fertilizer Co. In Savannah, about 200 feet south of Louisville road, 2 miles west of West Broad Street. No measurements made in 1946.

29 (*907, p. 42; *937, p. 44; 945, p. 63; *987, p. 58; 1017, p. 181). Portwentworth Corporation. In Port Wentworth, about 300 feet east of U. S. Highway 17, near elevated steel tank. No measurements made in 1946.

30 (*845, p. 53; *886, p. 73; 907, p. 42; *937, p. 44; 945, p. 63; *987, p. 58; 1017, p. 182). Dixie Asphalt Corporation. Near west bank Savannah River, 1 mile northeast of U. S. Highway 17, and 3.4 miles northwest of Savannah city hall. Water levels, in feet below land-surface datum, 1946: Mar. 7, 51.15; July 11, 53.40; Sept. 16, 57.37; Dec. 11, 54.36.

43 (*907, p. 43; *937, p. 45; 945, p. 63; *987, p. 59; 1017, p. 182). Southern Cotton Oil Co. Well 215A. 40 feet north of Lathrop Avenue, 1,200 feet southwest of southwest bank of Savannah River, and 1.75 miles northwest of Savannah city hall. Water levels, in feet below land-surface datum, 1946: Mar. 7, 60.38; July 10, 65.57; Sept. 16, 66.63.

46 (*886, p. 73; 907, p. 43; *937, p. 45; 945, p. 63; *987, p. 59; 1017, p. 182). Union Bag & Paper Corporation, well 5. About 800 feet southwest of Savannah River, 2.4 miles northwest of Savannah city hall. Well in continuous use. Measurements furnished through courtesy of Union Bag & Paper Corporation.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 22	105.6	Aug. 8	145.6	Sept.27	142.6	Nov. 5	134.6
Feb. 15	113.6	Sept. 1	139.6	Oct. 12	140.6	21	137.6
22	113.6	13	144.6	27	142.6	Dec. 12	127.6
Mar. 5	108.6						

47 (*886, p. 73; 907, p. 43; 937, p. 45; 945, p. 63; *987, p. 59; 1017, p. 182). National Gypsum Co. Near west bank Savannah River, 1 mile northeast of U. S. Highway 17, 3.25 miles northwest of Savannah city hall. No measurements made in 1946.

48 (*907, p. 43; *937, p. 45; 945, p. 63; *987, p. 59; 1017, p. 182). U. S. War Dept., Savannah Army Service Forces Depot. On west bank of Savannah River, 3.8 miles northwest of Savannah city hall. No measurements made in 1946.

50 (*886, p. 74; 907, p. 43; *937, p. 45; 945, p. 63; *987, p. 59; 1017, p. 182). Hercules Powder Co. In Savannah, about 95 feet south of Louisville road, 3.2 miles west of West Broad Street. No measurements made in 1946.

63 (*907, p. 43; *937, p. 46; 945, p. 64; *987, p. 59; 1017, p. 182). Colonial Ice Co. In Savannah, 5 feet northwest of McGuire Street, about 105 feet northeast of Indian Street. Water levels, in feet below land-surface datum, 1946: Mar. 7, 61.13; July 10, 68.67; Sept. 16, 69.51; Dec. 12, 64.26.

76 (*907, p. 44; *937, p. 46; 945, p. 64; *987, p. 59; 1017, p. 182). Pierpont Manufacturing Co. About 600 feet southwest of Savannah River, 2.1 miles northwest of Savannah city hall. Water levels, in feet below land-surface datum, 1946: Mar. 7, 69.33; July 10, 74.18; Sept. 16, 77.06; Dec. 11, 76.50.

79 (*886, p. 75; 907, p. 44; *937, p. 46; 945, p. 64; *987, p. 60; 1017, p. 183). Benton Transfer Co. In Savannah, about 25 feet west of center line of Whitaker Street extended, about 55 feet south of Victory Drive. Water level affected by pumpage in Savannah area.

79--Continued.

Highest and lowest weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week	Date	Highest level	Date	Lowest level
Jan. 1-5	Jan. 1	66.00	Jan. 4	68.31
6-12	7	64.82	11	68.75
13-19	14	66.40	18	68.97
20-26	21	65.71	25	68.57
27-Feb. 2	28	65.76	31	68.95
Feb. 3-9	Feb. 4	65.44	Feb. 8	69.15
10-16	11	66.20	15	69.22
17-23	18	65.38	22	68.64
24-Mar. 2	25	66.82	Mar. 1	70.21
Mar. 3-9	Mar. 3	68.33	5	73.21
10-16	11	70.54	15	74.13
17-23	18	71.74	21	74.40
24-30	30	72.15	26	74.36
31-Apr. 6	Apr. 5	70.95	Apr. 1	74.70
Apr. 7-13	10	70.11	8	73.45
14-20	19	71.01	15	73.61
21-27	21	71.83	23	75.65
28-May 4	29	72.37	May 3	75.53
May 5-11	May 6	71.26	10	78.86
12-18	13	74.89	15	78.10
19-25	23	75.65	24	77.92
26-June 1	27	75.31	31	76.95
June 2-8	June 3	75.53	June 4	80.20
9-15	9	76.75	14	81.16
16-22	17	76.79	21	82.04
23-27	24	77.42	25	80.60
July 11-15	July 13	76.98	July 15	79.15
16-22	22	77.23	19	80.59
23-29	29	77.31	26	80.66
30-Aug. 5	Aug. 4	76.79	30	81.20
Aug. 6-12	8	78.18	Aug. 8	82.15
13-19	18	78.65	16	82.62
20-26	22	79.14	26	82.45
27-Sept.2	Sept. 2	78.40	30	82.64
Sept. 3-9	4	77.17	Sept. 4	81.26
10-16	12	76.92	10	80.33
17-23	23	76.39	18	79.16
24-30	30	76.37	27	79.84
Oct. 1-7	Oct. 7	76.65	Oct. 1	78.15
8-14	14	76.29	10	78.35
15-21	21	75.57	15	77.17
22-28	28	74.14	23	76.57
29-Nov. 4	Nov. 4	71.71	30	75.72
Nov. 5-11	11	70.90	Nov. 6	74.78
12-18	18	71.08	15	74.47
19-25	25	70.24	23	74.15
26-Dec. 2	26	70.74	Dec. 2	74.46
Dec. 3-9	Dec. 9	72.06	3	74.63
10-16	16	71.93	13	73.78
17-23	23	71.23	18	73.80
24-31	30	67.83	24	72.63

81 (*907, p. 45; *937, p. 47; 945, p. 65; *987, p. 61; 1017, p. 183). Gordon Saussy. Near west bank of Savannah River, 5.3 miles northwest of Savannah city hall, a short distance south of Savannah Sugar Refining Corporation. Water levels, in feet below land-surface datum, 1946: Mar. 7, 37.43; July 11, 39.53; Sept. 16, 41.43; Dec. 11, 39.91.

84 (*907, p. 45; *937, p. 47; 945, p. 65; *987, p. 61; 1017, p. 183). Standard Oil Co. About 150 feet south of Savannah River, 2.9 miles east of Savannah city hall. Water levels, in feet below land-surface datum, 1946: Mar. 8, 25.58; July 11, 31.29; Sept. 16, 31.26; Dec. 12, 27.65.

86 (*945, p. 66;*987, p. 61; 1017, p. 183). Southern Cotton Oil Co. well 215C. In Savannah, about 180 feet north of Lathrop Avenue property line, about 1,050 feet south of Savannah River, 1.8 miles northwest of Savannah city hall. Water levels, in feet below land-surface datum, 1946: Mar. 7, 72.47; Sept. 16, 77.00; Dec. 11, 79.27.

87 (*907, p. 45; 937, p. 47; 945, p. 66; *987, p. 61; 1017, p. 183). Savannah Gas Co. In Savannah, about 80 feet south of Bay Street on east side of Reynolds Street, about 55 feet west of Central of Georgia Railway. No measurements made in 1946.

88 (*945, p. 66; *987, p. 61; 1017, p. 183). W. P. Dowling. About 1,100 feet northwest of Central Junction, 100 feet northeast of Seaboard Railway, 3.9 miles northwest of Savannah city hall. Measurements discontinued.

100 (*987, p. 62; 1017, p. 184). Producers Cooperative Association. In Savannah, about 1.1 miles east-southeast of Savannah city hall, 1,000 feet south of Savannah River, about 100 feet north of west end of main building. Water levels, in feet below land-surface datum, 1946: Mar. 8, 34.59; July 11, 41.45; Sept. 16, 41.57; Dec. 12, 34.98.

105 (*845, p. 54; 886, p. 75; 907, p. 45; 937, p. 47; 945, p. 67; *987, p. 63; 1017, p. 184). Pratt Gay. On south side of Louisville road, near intersection with Pine Barren road, 8 miles west of Savannah. No measurements made in 1946.

109 (*845, p. 54; 886, p. 75; 907, p. 45; *937, p. 47; 945, p. 67; *987, p. 63; 1017, p. 184). Georgia State Highway Department. South of west abutment of Savannah River bridge on U. S. Highway 17, 7 miles northwest of Savannah. Water levels, in feet below land-surface datum, 1946: Mar. 7, 13.16; July 11, 15.43; Sept. 16, 16.31; Dec. 11, 15.20.

112 (*907, p. 46; *937, p. 47; 945, p. 67; *987, p. 63; 1017, p. 184). Mrs. L. O. Givern. In Bloomingdale, about 200 feet north of Central of Georgia Railway station, about 90 feet west of town street. Water levels, in feet below land-surface datum, 1946: Mar. 9, 1.35; July 10, 2.32; Sept. 16, 2.75; Dec. 11, 2.21.

117 (*907, p. 46; *937, p. 47; 945, p. 67; *987, p. 63; 1017, p. 184). U. S. War Department. At Fort Screven, Tybee Island, about 300 feet south of old lighthouse. No measurements made in 1946.

121 (*886, p. 75; 907, p. 46; 937, p. 48; 945, p. 68; *987, p. 63; 1017, p. 184). Robert Schneider. About 50 feet north of Tybee road, in northwestern part of Tybee Island. Water levels, in feet below land-surface datum, 1946: Mar. 8, 4.58; July 11, 7.07; Sept. 16, 6.28; Dec. 12, 4.19.

122 (*907, p. 46; 937, p. 48; 945, p. 68; *987, p. 63; 1017, p. 184). Georgia State Highway Department. Near southwest end of steel truss bridge over Bull River on Tybee road, 7 miles east of Savannah. Water levels, in feet below land-surface datum, 1946: Mar. 8, 11.22; July 11, 14.14; Sept. 16, 13.94; Dec. 12, 12.38.

123 (*886, p. 75; 907, p. 46; *937, p. 48; 945, p. 68; *987, p. 64; 1017, p. 184). Henry Walthour Estate. On Wilmington Island, on southwest side of dirt road, about 0.5 mile south of Tybee road. Water levels, in feet below land-surface datum, 1946: Mar. 8, 9.55; July 11, 10.57; Sept. 16, 10.04; Dec. 12, 9.26.

126 (*845, p. 54; 886, p. 76; 907, p. 47; *937, p. 49; 945, p. 69; *987, p. 65; 1017, p. 185). Atlantic Mutual Fire Insurence Co. At south end of Wilmington Island. No measurements made in 1946.

128 (*945, p. 69; *987, p. 65; 1017, p. 185). Southeastern Medical Center. On Oatland Island, about 4 miles southeast of Savannah, on east side of main building. Water levels, in feet below land-surface datum, 1946: Mar. 8, 29.41; Dec. 12, 29.35.

131 (*886, p. 76; 907, p. 47; *937, p. 49; 945, p. 69; *987, p. 65; 1017, p. 185). C. E. Oliver. On east side of State Highway 21, 0.8 mile northwest of crossing of Atlantic Coast Line Railroad at Monteith. Water levels, in feet below land-surface datum, 1946: Mar. 9, 6.76; July 11, 8.4; Sept. 16, 9.25; Dec. 11, 8.38.

133 (*945, p. 69; *987, p. 65; 1017, p. 185). State Highway Department of Georgia. About 2.6 miles north of Monteith, at foot of shoulder east of State Highway 21, on north bank of Black Creek. Water levels, in feet above land-surface datum, 1946: Mar. 9, 1.45; July 11, 1.1; Sept. 16, 0.80; Dec. 11, 1.50.

134 (*945, p. 69; *987, p. 65; 1017, p. 185). J. C. Sheffield. 4 miles south of Savannah, about 100 feet southwest of intersection of Waters Avenue and Montgomery road. Water levels, in feet below land-surface datum, 1946: Mar. 8, 27.89; July 11, 31.0; Dec. 12, 29.62.

137 (*907, p. 47; *937, p. 49; 945, p. 70; *987, p. 65; 1017, p. 185). C. P. Rowland. In Montgomery, in northern part, on east side of Ferguson Avenue. Water levels, in feet below land-surface datum, 1946: Mar. 8, 12.29; July 11, 14.29; Sept. 17, 14.47; Dec. 12, 12.98.

143 (*886, p. 76; 907, p. 47; *937, p. 49; 945, p. 70; *987, p. 65; 1017, p. 185). M. B. Lane. In Anderson, about 600 feet north of Seaboard Railway. No measurements made in 1946.

144 (*945, p. 70; *987, p. 66; 1017, p. 185). J. F. Zipperer. On north side of U. S. Highway 17, 0.2 mile east of its intersection with Fort Argyle road. No measurements made in 1946.

145 (*886, p. 76; 907, p. 47; *937, p. 49; 945, p. 70; *987, p. 66; 1017, p. 185). A. G. Gillespie. On north side of U. S. Highway 17, 0.25 mile east of Little Ogeechee River. Water levels, in feet with reference to land-surface datum, 1946: Mar. 9, +1.23; July 12,-0.19; Sept. 17, -0.63; Dec. 12, +0.35.

166 (*945, p. 70; *987, p. 66; 1017, p. 185). Chatham County. At school, on north side of Pine Barren road, 0.8 mile west of Louisville road. No measurements made in 1946.

169 (*907, p. 48; *937, p. 49; 945, p. 70; *987, p. 66; 1017, p. 186). L. J. Carter. On north side of Pine Barren road, 2.75 miles east of Ogeechee River. Water levels, in feet below land-surface datum, 1946: Mar. 9, 4.21; Dec. 11, 4.39.

174 (*907, p. 48; *937, p. 49; 945, p. 70; *987, p. 66; 1017, p. 186). Mrs. Eda W. Sapp. About 750 feet north of Pine Barren road, and 0.5 mile east of Ogeechee River. Water levels, in feet above land-surface datum, 1946: Mar. 9, 7.75; Dec. 11, 7.38.

194 (*886, p. 76; 907, p. 48; *937, p. 50; 945, p. 70; *987, p. 66; 1017, p. 186). Mrs. W. W. Keller, Sr. At Drakie's Bluff, on west bank of Savannah River, about 8 miles northwest of Savannah. Water levels, in feet below land-surface datum, 1946: Mar. 9, 17.02; Dec. 11, 18.62.

199 (*886, p. 76; 907, p. 48; *937, p. 50; 945, p. 70; *987, p. 66; 1017, p. 186). Mrs. Hattie F. Keller. At Meinhard, about 0.25 mile south of Monteith road, about 750 feet west of Savannah & Atlanta Railway. No measurements made in 1946.

203 (*945, p. 54; 886, p. 76; 907, p. 48; 937, p. 50; 945, p. 70; *987, p. 66; 1017, p. 186). Atlantic Coast Line Railroad. At house of section foreman, in Cherokee Hill. No measurements made in 1946.

213 (*886, p. 76; 907, p. 48; *937, p. 50; 945, p. 70; *987, p. 66; 1017, p. 186). J. L. Budreau. At intersection of Burroughs road and U. S. Highway 17. Water levels, in feet with reference to land-surface datum, 1946: Mar. 9, +0.07; July 12, -1.01; Sept. 17, -1.36; Dec. 12, -0.48.

242 (*945, p. 71; *987, p. 66; 1017, p. 186). J. L. Budreau. On east side of Burroughs road, 0.9 mile south of U. S. Highway 17. Water levels, in feet above land-surface datum, 1946: Mar. 9, 1.25; Dec. 12, 0.75.

256 (*937, p. 50; 945, p. 71; *987, p. 67; 1017, p. 186). Mrs. W. M. Price. At Bloomingdale, on south side of Central of Georgia Railway opposite depot. No measurements made in 1946.

265 (*1017, p. 186). Mrs. S. B. Macon. At Pooler, near southeast end of bridge over Central of Georgia Railway on U. S. Highway 80. No measurements made in 1946.

266 (*907, p. 48; *937, p. 50; 945, p. 71; *987, p. 67; 1017, p. 186). Dr. J. F. Chisholm. 1 mile east of Augusta road, 3.5 miles north of Monteith. Water levels, in feet below land-surface datum, 1946: Mar. 9, 4.18; July 11, 5.47; Sept. 16, 6.19; Dec. 11, 5.76.

269 (*907, p. 48; *937, p. 51; 945, p. 71; *987, p. 67; 1017, p. 186). J. W. Pierpont Estate. In east part of Isle of Hope. Water level affected by tide.

Water level, in feet, 1946

Date	Hour	Elevation of tide in Skidaway River, in feet with reference to measuring point	Water level in well, in feet below land-surface datum
Mar. 8	4:23 p.m.	(a)	14.83
July 11	2:48 p.m.	13.08	17.11
Sept. 17	11:21 a.m.	9.32	16.94
Dec. 12	11:24 a.m.	8.20	15.06

a No record.

273 (*907, p. 49; *937, p. 51; 945, p. 71; *987, p. 67; 1017, p. 186). C. A. Gross. On west side of Isle of Hope road, 1.5 miles north of Isle of Hope. Water levels, in feet below land-surface datum, 1946: Mar. 8, 20.17; July 11, 23.76; Sept. 17, 23.81; Dec. 12, 21.49.

275 (*886, p. 77; 907, p. 49; *937, p. 51; 945, p. 71; *987, p. 67; 1017, p. 186). Mrs. R. J. Travis. At Avalon. No measurements made in 1946.

279 (*907, p. 49; *937, p. 51; 945, p. 71; *987, p. 67; 1017, p. 186). J. B. Pound Hotel Corporation. On Wilmington Island, at General Oglethorpe Hotel. Water levels, in feet below land-surface datum, 1946: Mar. 8, 11:20 a.m., 18.95; July 11, 12:30 p.m., 24.07; Sept. 16, 3:26 p.m., 22.40; Dec. 12, 9:47 a.m., 20.26.

312 (*907, p. 49; *937, p. 51; 945, p. 71; *987, p. 67; 1017, p. 187). Miss Mamie Taylor. About 50 feet northeast of Louisville road, about 0.4 mile northwest of intersection with Pine Barren road. No measurements made in 1946.

314 (*907, p. 49; *937, p. 52; 945, p. 71; *987, p. 67; 1017, p. 187). J. M. Breckenridge. About 600 feet west of White Bluff road, and 0.3 mile north of Buckhalter road. Water levels, in feet below land-surface datum, 1946: Mar. 8, 30.02; July 11, 33.02; Sept. 17, 33.39; Dec. 12, 31.80.

321 (*907, p. 49; *937, p. 52; 945, p. 71; *987, p. 68; 1017, p. 187). R. C. Hinley. About 8.25 miles south of Savannah city hall, 100 feet north of Vernonburg Avenue, and 0.1 mile east of White Bluff road. Water levels, in feet below land-surface datum, 1946: Mar. 8, 11.06; July 11, 12.95; Sept. 17, 13.37; Dec. 12, 11.82.

326 (*937, p. 52; 945, p. 72; *987, p. 68; 1017, p. 187). R. E. Heller. In eastern part of Coffee Bluff. No measurements made in 1946.

328 (*907, p. 50; *937, p. 52; 945, p. 72; *987, p. 68; 1017, p. 187). U. S. War Department. At Fort Screven, on Tybee Island. Water levels, in feet below land-surface datum, 1946: Mar. 8, 8.53; July 11, 11.06; Sept. 16, 10.29; Dec. 12, 7.87.

330 (*937, p. 53; 945, p. 73; *987, p. 69; 1017, p. 187). State Highway Department. On southeast side of U. S. Highway 17, 6 miles southwest of Savannah. Water levels, in feet below land-surface datum, 1946: Mar. 9, 0.72; July 12, 2.16; Sept. 17, 2.73; Dec. 12, 1.57.

331 (*945, p. 73; *987, p. 69; 1017, p. 187). J. E. Poythress. At Jelma Inn, about 13 miles northwest of Savannah, 0.4 mile southeast of Chatham-Effingham county line, along State Highway 21, about 50 feet northeast of highway. Water levels, in feet below land-surface datum, 1946: Mar. 9, 9.75; July 11, 11.03; Sept. 16, 11.62; Dec. 11, 11.24.

332 (*945, p. 73; *987, p. 69; 1017, p. 187). Louis Lucas. At Bloomingdale, about 50 feet north of U. S. Highway 80, 0.3 mile east of Bloomingdale cross road. Water levels, in feet below land-surface datum, 1946: Mar. 9, 2.05; July 10, 3.05; Sept. 16, 4.84; Dec. 11, 2.92.

343 (*945, p. 73; *987, p. 70; 1017, p. 188). U. S. Dept. of Agriculture. At Barbour Lathrop Plant Introduction Station, about 12 miles southwest of Savannah, about 300 feet north of U. S. Highway 17, and about 200 feet northeast of Fort Argyle road.

Highest and lowest weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week	Date	Highest level	Date	Lowest level
Jan. 7-13	Jan. 7	3.99	Jan. 13	4.30
14-20	18	4.08	14	4.36
21-27	24	3.54	21	4.15
28-Feb. 3	28	3.81	Feb. 3	4.19
Feb. 4-10	Feb. 4	4.24	10	4.33
11-17	11	4.45	14	4.53
18-24	18	4.51	24	4.64
25-Mar. 1	25	4.74	Mar. 1	4.85
Mar. 4-10	Mar. 4	4.91	10	5.11
11-17	17	5.00	14	5.28
18-24	19	4.75	24	4.98
25-31	31	4.77	28	5.23
Apr. 1-7	Apr. 2	4.70	Apr. 7	5.10
8-14	14	5.03	11	5.39
15-21	15	5.03	21	5.32
22-28	27	5.36	25	5.50
May 6-12	May 6	4.84	May 12	5.31
13-19	19	4.31	14	5.51
20-26	21	3.64	20	4.16
27-June 2	27	3.74	26	4.09
June 3-9	June 3	4.14	June 9	4.65
10-16	10	4.75	15	5.20
17-23	17	4.99	23	5.52
24-30	24	5.59	30	5.99
July 1-7	July 1	6.04	July 7	6.39
8-14	8	6.45	14	6.79
15-21	15	6.86	21	7.10
22-28	28	6.28	22	6.89
29-Aug. 4	29	6.27	Aug. 4	6.42
Aug. 5-11	Aug. 8	6.05	5	6.27
12-18	12	6.41	18	7.04
19-25	25	6.08	20	7.22
26-Sept. 1	27	5.96	Sept. 1	6.10
Sept. 2-8	Sept. 2	6.10	8	6.85
9-15	9	6.97	15	7.51
16-22	16	7.56	22	7.80
23-29	23	7.86	29	8.08
30-Oct. 6	30	8.12	Oct. 6	8.43
Oct. 7-13	Oct. 10	4.06	7	8.46
14-20	14	4.48	20	5.04
21-27	21	5.17	27	5.53
28-Nov. 3	Nov. 3	5.44	Nov. 1	5.64
Nov. 4-10	7	5.02	4	5.21

343--Continued.

Highest and lowest weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week	Date	Highest level	Date	Lowest level
Nov. 11-17	Nov. 11	5.16	Nov. 17	5.61
18-24	21	4.47	18	5.42
25-Dec. 1	25	4.61	Dec. 1	4.91
Dec. 2-8	Dec. 2	5.07	8	5.40
9-15	9	5.44	15	5.69
16-22	16	5.75	22	6.01
23-29	23	6.00	29	6.18
30-31	30	6.27	31	6.30

Clayton County

7 (*987, p. 71; 1017, p. 188). H. P. Lieuppo. At Forest Park, about 0.5 mile south of highway bridge over Central of Georgia Railway, and 43 feet west of center of U. S. Highway 41. Water levels, in feet below land-surface datum, 1946: Feb. 26, 29.08; Sept. 12, 27.96; Dec. 18, 31.10.

14 (*987, p. 71; 1017, p. 189). John E. Dawson. At Mountain View, 0.6 mile east of U. S. Highway 41, and about 100 feet south of east-west road. Water level, in feet below land-surface datum, 1946: Dec. 18, 58.64.

15 (*987, p. 71; 1017, p. 189). W. M. Lyle. At Mountain View, 0.6 mile east of U. S. Highway 41, and about 100 feet south of east-west road. Water levels, in feet below land-surface datum, 1946: Feb. 26, 61.86; Sept. 12, 47.26; Dec. 18, 57.51.

26 (*987, p. 71; 1017, p. 189). A. C. Crane. At Forest Park, about 3 miles south of Fulton-Clayton county line along U. S. Highway 41, and 100 feet south of tourist court on east side of highway. Water levels, in feet below land-surface datum, 1946: Feb. 26, 24.13; Sept. 12, 26.19; Dec. 18, 27.22.

27 (*987, p. 71; 1017, p. 189). J. L. Paul. In vicinity of city of Forest Park, about 4.0 miles south of Fulton-Clayton county line, along U. S. Highway 41 and 150 feet east of center of highway. Water levels, in feet below land-surface datum, 1946: Sept. 12, 41.98; Dec. 18, 36.40.

Cobb County

5 (*987, p. 72; 1017, p. 189). City of Smyrna. At Smyrna, about 340 feet west of center of Whitfield Street, in open field. Water levels, in feet below land-surface datum, 1946: Feb. 28, 9.82; Sept. 13, 11.89; Dec. 19, 12.17.

6 (*987, p. 72; 1017, p. 189). City of Smyrna. At Smyrna, at junction of Old Roswell, New Roswell, and Highland roads. Water levels, in feet below land-surface datum, 1946: Feb. 28, 10.70; Sept. 13, 14.34; Dec. 19, 17.41.

11 (*987, p. 72; 1017, p. 189). Mrs. J. H. Carmichael. At Oakdale, about 0.8 mile northwest of Log Cabin Drive underpass under Georgia Power Co. electric railway, and 102 feet east of center of Log Cabin Drive. Water levels, in feet below land-surface datum, 1946: Feb. 28, 22.88; Dec. 19, 30.73.

14 (*987, p. 72; 1017, p. 189). J. A. Rust. At Smyrna, about 1.75 miles along U. S. Highway 41, northwest of Locust Grove Baptist Church in Oakdale, and 250 feet west of center of U. S. Highway 41. Water levels, in feet below land-surface datum, 1946: Feb. 28, 37.27; Sept. 13, 45.58; Dec. 19, 46.98.

21 (*987, p. 72; 1017, p. 189). Dr. Lewis Ray. At Oakdale, on U. S. Highway 41, about 0.45 mile north of highway bridge over Nashville, Chattanooga & St. Louis Railway, and about 42 feet east of center of highway. Water levels, in feet below land-surface datum, 1946; Feb. 28, 31.27; Sept. 13, 30.33; Dec. 19, 31.99.

25 (*987, p. 72; 1017, p. 190). J. T. Cox. At Oakdale, on Log Cabin Drive, about 0.35 mile northwest of underpass under Georgia Power Co. electric railway, and 300 feet west of center of Log Cabin Drive. New measuring point beginning Sept. 13, 1946, top inside edge of 6-inch iron casing, 4.0 feet below land-surface datum. Water levels, in feet below land-surface datum, 1946: Feb. 28, 13.90; Sept. 13, 17.53; Dec. 19, 19.70.

27 (*987, p. 72; 1017, p. 190). R. D. Webb. At Oakdale, on Log Cabin Drive, about 0.45 mile northwest of underpass under Georgia Power Co. electric railway, and approximately 150 feet north of center of Log Cabin Drive. Water levels, in feet below land-surface datum, 1946: Feb. 28, 18.41; Sept. 13, 21.08; Dec. 19, 23.06.

32 (*987, p. 72; 1017, p. 190). Mrs. F. C. Arnold. At Oakdale, about 1.15 miles south of Southern Railway, along Oakdale road, about 35 feet east of center of road. No measurements made in 1946.

36 (*987, p. 72; 1017, p. 190). E. W. Bruton. Near Bolton, on U. S. Highway 78, about 0.5 mile west of highway bridge over Chattahoochee River, and 188 feet south of center of highway. No measurements made in 1946.

44 (*987, p. 73; 1017, p. 190). Mrs. J. A. West. At Oakdale, about 0.65 mile south of Southern Railway, along Oakdale road, about 62 feet east of center of road. No measurements made in 1946.

48 (*987, p. 73; 1017, p. 190). J. J. Watkins. At Oakdale, about 0.3 mile south of Southern Railway, along Oakdale road, 17 feet southeast of southeast corner of dwelling. Water level, in feet below land-surface datum, 1946: Feb. 28, 33.49. Measurements discontinued.

52 (*987, p. 73; 1017, p. 190). C. C. Johnson. At Oakdale, about 0.2 mile north of Southern Railway, along Oakdale road and 100 feet west of center of road. Water levels, in feet below land-surface datum, 1946: Feb. 28, 13.09; Sept. 13, 15.84; Dec. 19, 18.26.

57 (*987, p. 73; 1017, p. 190). Jim Lawson. At Oakdale, about 0.35 mile north of Church Street and 80 feet west of center of north-south road, inside private dwelling. No measurements made in 1946.

71 (*987, p. 73; 1017, p. 190). D. W. Cook. At Oakdale, about 0.1 mile east of Camp Highland road, and approximately 27 feet northeast of northeast corner of dwelling. Water levels, in feet below land-surface datum, 1946: Feb. 28, 57.48; Sept. 13, 58.05; Dec. 19, 57.04.

74 (*987, p. 73; 1017, p. 190). A. P. Hogan. At Marietta, about 0.55 mile southeast of intersection of State Highways 3E and 220 on State Highway 3E, and 28 feet southwest of southwest corner of dwelling. Water levels, in feet below land-surface datum, 1946: Feb. 28, 42.30; Sept. 13, 44.74; Dec. 19, 46.47.

83 (*987, p. 73; 1017, p. 190). National Park Service, U. S. Dept. of Interior. At Kennesaw Mountain National Park, about 0.55 mile west of U. S. Highway 41, and 250 feet north of center of east-west road. Water levels, in feet below land-surface datum, 1946: Feb. 28, 3.14; Sept. 13, 5.63; Dec. 19, 5.00.

85 (*987, p. 73; 1017, p. 190). D. C. Hames. Near Kennesaw Mountain National Park, on U. S. Highway 41, about 0.4 mile northwest of highway bridge over Nashville, Chattanooga & St. Louis Railway, 45 feet east of center of highway. Water levels, in feet below land-surface datum, 1946: Feb. 28, 11.38; Sept. 13, 20.49; Dec. 19, 22.80.

Coffee County

3 (*945, p. 74; *987, p. 73; 1017, p. 190). Town of Nicholls. In Nicholls, about 0.1 mile north of Atlanta, Birmingham & Coast Railroad, on east side of city street, near elevated steel water tank. No measurements made in 1946.

DeKalb County

17 (*987, p. 74; 1017, p. 191). Mrs. J. H. Anderson. In Atlanta, on U. S. Highway 42, about 0.55 mile south of highway bridge over Southern Railway, 98 feet east of center of highway. Water levels, in feet below land-surface datum, 1946: Feb. 26, 30.39; Sept. 12, 36.81; Dec. 18, 28.62.

29 (*1017, p. 191). Mrs. A. H. Daniel. In Decatur, about 0.75 mile north of intersection of Glenwood Road and Columbia Drive, about 75 feet east of center of Columbia Drive and 85 feet west of private dwelling. Water levels, in feet below land-surface datum, 1946: Feb. 26, 36.73; Sept. 13, 37.56; Dec. 18, 38.52.

34 (*1017, p. 191). I. W. Williams. In Panthersville, about 0.35 mile west of intersection of Candler and Flat Shoals roads, and about 150 feet south of center of Flat Shoals road, on top of hill. Water levels, in feet below land-surface datum, 1946: Feb. 26, 47.96; Sept. 13, 45.50; Dec. 18, 47.55.

39 (*1017, p. 191). L. N. Fassett. In Decatur, about 0.45 mile north of intersection of Columbia Drive and Glenwood Road, 138 feet east of center of Columbia Drive, and about 22 feet southeast of southeast corner of private dwelling. Water levels, in feet below land-surface datum, 1946: Feb. 26, 34.39; Sept. 13, 37.30; Dec. 18, 39.44.

40 (*1017, p. 191). Lamar Westfall. In Decatur, about 0.75 mile east of intersection of Glenwood and Candler roads, 370 feet south of center of Glenwood Road, in bottom of valley, and 55 feet west of west side of outdoor concrete swimming tank. Water levels, in feet below land-surface datum, 1946: Feb. 26, 2.22; Sept. 13, 2.90; Dec. 18, 3.03.

50 (*1017, p. 191). Miss A. M. Lyle. In Atlanta, about 2.43 miles south of intersection of Moreland Avenue and Memorial Drive, 125 feet east of center of Moreland Avenue, and 15 feet southeast of southeast corner of private dwelling. Water levels, in feet below land-surface datum, 1946: Feb. 26, 33.12; Sept. 12, 33.89; Dec. 18, 33.93.

Early County

2 (*937, p. 53; 945, p. 75; *987, p. 74; 1017, p. 191). Emory University Field Station well 19. Plez Douglas. About 2.4 miles northeast of Damascus, 1.4 miles east of Seaboard Railway, 60 feet south of county road.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	0.29	Apr. 9	0.41	July 9	2.22	Oct. 8	2.93
10	.02	16	.28	16	2.75	15	3.40
24	.05	23	.79	23	a .16	22	4.27
29	.19	30	.29	30	.08	29	4.38
Feb. 5	.26	May 7	.12	Aug. 8	.02	Nov. 5	5.36
12	.21	14	.06	13	.44	12	6.60
19	a .01	21	.04	20	.99	18	8.15
26	.20	28	.41	27	1.27	26	9.40
Mar. 5	.31	June 4	.26	Sept. 3	1.53	Dec. 3	10.59
12	.50	11	.73	10	2.08	10	11.60
19	.30	18	1.31	17	2.40	17	12.54
26	.47	25	1.78	24	2.27	24	13.01
Apr. 2	.20	July 2	1.19	Oct. 1	2.28	31	13.17

a Above land-surface datum.

6 (*937, p. 54; 945, p. 75; *987, p. 74; 1017, p. 192). Emory University Field Station well 23. P. F. Chandler. About 1.3 miles north of Douglasville, 2.7 miles east of Seaboard Railway, 50 feet west of T-junction of county roads.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	0.28	May 2	0.85	July 25	0.55	Nov. 1	4.96
Mar. 1	.61	June 3	.33	Aug. 30	1.85	Dec. 16	10.75
Apr. 4	.74	28	2.46	Oct. 3	3.77		

18 (*937, p. 54; 945, p. 75; *987, p. 74; 1017, p. 192). Emory University Field Station well 53. E. B. Davis. About 0.8 mile southeast of Douglasville, 3,125 feet south of county road, north of Big Cypress pond.

Water level, in feet below land-surface datum, 1946

Jan. 18	2.19	May 2	2.84	July 25	2.40	Nov. 1	4.34
Mar. 1	2.63	June 3	2.66	Aug. 30	3.36	Dec. 16	7.09
Apr. 3	2.60	28	3.80	Oct. 3	3.62		

Effingham County

6 (*937, p. 54; 945, p. 75; *987, p. 75; 1017, p. 192). W. B. Butler. At Eden, on east side of U. S. Highway 80, about 0.3 mile northwest of crossing of Central of Georgia Railway and U. S. Highway 80. Water levels, in feet below land-surface datum, 1946: Mar. 9, 1.25; July 10, 2.90; Dec. 11, 2.61.

7 (*886, p. 77; 907, p. 51; *937, p. 54; 945, p. 76; *987, p. 75; 1017, p. 192). Central of Georgia Railway. At Meldrim, between Central of Georgia and Seaboard Railways, about 200 feet west of station. No measurements made in 1946.

16 (*937, p. 55; 945, p. 76; *987, p. 75; 1017, p. 192). Coastal Service Co. At Springfield, in northern part, near bottom of valley south of Jacks Branch, about 300 feet east of State Highway 21. No measurements made in 1946.

18 (*937, p. 55; 945, p. 76; *987, p. 75; 1017, p. 192). Steel Bridge Club. 4 miles southwest of Guyton, near east end of steel bridge over Ogeechee River, on south side of Springfield-Statesboro road. Water level, in feet above land-surface datum, 1946: Dec. 11, 2.58.

20 (*937, p. 55; 945, p. 76; *987, p. 75; 1017, p. 192). J. D. Hagin. At Pineora, 3 miles south of Guyton, and 0.2 mile west of Central of Georgia Railway. Water levels, in feet below land-surface datum, 1946: Mar. 9, 38.34; Dec. 11, 38.72.

Evans County

3 (*945, p. 76; *987, p. 75; 1017, p. 192). City of Claxton. At Claxton, at city water works plant, about 300 feet south of Seaboard Railway. Water levels, in feet below land-surface datum, 1946: Mar. 6, 112.74; May 8, 112.45; Nov. 27, 112.89; Dec. 10, 112.54.

Fulton County

7 (*987, p. 76; 1017, p. 192). City of College Park. At College Park, at base of west side of large steel filter tank of city water works. Water levels, in feet below land-surface datum, 1946: Feb. 26, 39.67; Sept. 12, 36.24; Dec. 18, 38.20.

8 (*987, p. 76; 1017, p. 193). City of College Park. At College Park, about 30 feet north of Oglethorpe Street extended. Water levels, in feet below land-surface datum, 1946: Feb. 26; 23.81; Sept. 12, 24.29; Dec. 18, 25.17.

20 (*987, p. 76; 1017, p. 193). City of East Point. At East Point, on Plant Street, about 0.1 mile south of Taylor Avenue, and 38 feet east of center of street. Water levels, in feet below land-surface datum, 1946: Feb. 26, 24.05; Dec. 18, 25.79.

26 (*987, p. 76; 1017, p. 193). O'Neill Bros. At East Point, about 98 feet east of Central of Georgia Railway and 6 feet west of O'Neill Bros. warehouse.

Highest and lowest weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week	Date	Highest level	Date	Lowest level
Jan. 1-7	Jan. 7	20.36	Jan. 1	20.80
8-14	14	19.82	8	20.28
15-21	21	19.24	15	19.67
22-28	26	18.94	22	19.22
19-Feb. 4	Feb. 4	18.64	29	18.90
Feb. 5-11	10	18.23	Feb. 5	18.57
12-18	18	18.02	12	18.32
19-25	24	17.61	20	17.93
26-Mar. 4	27	17.52	Mar. 1	17.63
Mar. 5-12	Mar. 12	17.31	5	17.54
18-24	23	16.85	20	16.96
25-31	30	16.47	25	16.86
Apr. 1-7	Apr. 7	16.27	Apr. 1	16.52
8-14	14	16.04	8	16.24
15-21	16	15.85	15	15.95
22-28	25	15.72	28	15.99
29-May 5	May 3	15.87	May 1	15.98
May 6-12	7	15.89	10	16.06
13-19	18	16.03	14	16.16
20-26	26	15.97	21	16.09
27-June 2	28	15.89	30	15.97
June 3-9	June 3	15.93	June 6	16.04
10-16	12	16.06	16	16.24
17-19	19	16.12	17	16.18
24-30	24	16.16	27	16.23
July 1-7	July 1	16.20	July 7	16.39
8-14	9	16.37	14	16.58
15-21	15	16.58	20	16.72
22-23	22	16.71	23	16.81
Aug. 5-11	Aug. 5	17.05	Aug. 9	17.13
12-18	12	17.13	16	17.30
19-20	19	17.28	20	17.33
Sept. 10-16	Sept. 10	17.94	Sept. 16	18.12
17-23	17	18.16	23	18.35
24-30	25	18.36	30	18.47
Oct. 1-7	Oct. 1	18.54	Oct. 6	18.69
8-14	8	18.53	13	18.78
15-21	18	18.65	21	18.84
22-28	25	18.76	28	18.96
29-Nov. 4	Nov. 1	18.92	Nov. 4	19.03
Nov. 5-11	8	19.06	11	19.14
12-18	14	19.19	18	19.33
19-25	20	19.32	23	19.40
26-Dec. 2	25	19.36	Dec. 2	19.56
Dec. 3-9	Dec. 5	19.54	9	19.66
10-16	12	19.59	16	19.77
17-23	17	19.82	22	19.96
24-31	24	19.94	31	20.14

29 (*987, p. 76; 1017, p. 193). Adair & McCarthy. At East Point, about 275 feet northeast of center of Central Street and 40 feet northeast of northeast corner of Furman Fertilizer Co.'s shed. Water level, in feet below land-surface datum, 1946: Sept. 12, 13.86.

31 (*987, p. 76; 1017, p. 193). City of East Point. At East Point, about 0.25 mile southwest of junction of Semmes Street and Neely Avenue, and 15 feet south of small surface stream. Water levels, in feet below land-surface datum, 1946: Feb. 26, 10.77; Sept. 12, 12.34; Dec. 18, 12.74.

32 (*987, p. 77; 1017, p. 193). International Minerals & Chemical Corporation. At East Point, about 0.25 mile south of junction of Taylor Avenue and Central Street, and 52 feet east of main fertilizer shed. Water levels, in feet below land-surface datum, 1946: Feb. 26, 30.62; Sept. 12, 31.26; Dec. 18, 32.46.

39 (*987, p. 77; 1017, p. 194). Gate City Cotton Mill. At East Point, about 170 feet south of center of Willingham Drive, and 50 feet east of cotton mill. Water levels, in feet below land-surface datum, 1946: Feb. 26, 1.36; Sept. 12, 1.99.

43 (*987, p. 77; 1017, p. 194). American Agriculture & Chemical Co. At East Point, about 130 feet northeast of center of Central Street, and 28 feet east of fertilizer shed. Water levels, in feet below land-surface datum, 1946: Feb. 26, 19.27; Sept. 12, 21.49; Dec. 18, 22.20.

75 (*1017, p. 194). Pure Oil Co. At Bolton, about 140 feet north of intersection of Bolton Road and U. S. Highway 78, 50 feet east of center of Bolton Road and 8 feet east of northeast corner of shed. Water levels, in feet below land-surface datum, 1946: Feb. 28, 33.24; Sept. 13, 30.94; Dec. 19, 34.82.

76 (*987, p. 77; 1017, p. 194). Mason Public School. At Bolton, about 140 feet south of center of U. S. Highway 78, and 53 feet southeast of southeast corner of school building. Water levels, in feet below land-surface datum, 1946: Feb. 28, 43.65; Sept. 13, 40.02; Dec. 19, 41.85.

77 (*987, p. 77; 1017, p. 194). Mrs. Cory C. Helms. At Bolton, about 0.1 mile north of intersection of Bolton Road and U. S. Highway 78, 95 feet east of center of Bolton Road. Water levels, in feet below land-surface datum, 1946: Feb. 28, 23.11; Sept. 13, 23.30; Dec. 19, 24.02.

82 (*987, p. 77; 1017, p. 194). Chattahoochee Brick Co. At Bolton, about 0.5 mile northwest of Bolton Road, 0.1 mile west of Southern Railway, and 25 feet south of nearest tenement house. Water level, in feet below land-surface datum, 1946: Feb. 28, 17.19.

Glynn County

1 (*907, p. 51; *937, p. 55; 945, p. 76; *987, p. 77; 1017, p. 194). Atlantic Refining Co. well 1. At Arco, northwest of Brunswick, about 1,000 feet west of U. S. Highway 17, about 1,400 feet northwest of office of Atlantic Refining Co. No measurements made in 1946.

3 (*845, p. 54; 886, p. 78; 907, p. 51; *937, p. 56; 945, p. 77; *987, p. 77; 1017, p. 194). Atlantic Refining Co. well 3. At Arco, about 1 mile north of Brunswick about 1,100 feet southwest of office of Atlantic Refining Co.

3--Continued.

Highest and lowest weekly water level, in feet above land-surface datum, 1946
(From recorder charts)

Week	Date	Highest level	Date	Lowest level
Jan. 1-7	Jan. 2	31.52	Jan. 3	29.62
8-14	9	30.42	13	29.52
15-21	16	30.82	18	30.32
22-28	28	33.72	25	29.62
29-Feb. 4	Feb. 1	35.32	Feb. 4	30.22
Feb. 5-11	10	31.72	8	29.92
12-18	12	30.92	16	29.62
19-25	23	31.32	21	29.92
26-Mar. 4	27	30.92	Mar. 4	29.32
Mar. 5-11	Mar. 7	30.92	6	29.12
12-18	18	31.32	12	29.92
19-25	23	31.42	20	30.22
26-Apr. 1	30	31.32	28	29.92
Apr. 2-8	Apr. 8	31.72	Apr. 2	29.82
9-15	15	31.62	11	29.92
16-22	20	33.02	22	30.92
23-29	24	31.32	29	29.92
30-May 6	May 6	30.42	May 2	29.32
May 7-13	8	30.42	11	28.92
14-20	15	29.92	17	29.02
21-27	25	30.22	24	28.92
28-June 3	28	29.82	31	28.62
June 4-10	June 8	32.12	June 6	28.02
11-17	13	29.52	16	28.22
18-20	19	28.92	20	27.62
25-July 2	30	28.82	26	27.32
July 3-9	July 8	28.92	July 5	27.82
10-16	10	28.92	15	26.82
17-23	18	27.42	23	26.82
24-30	26	27.22	30	26.22
31-Aug. 6	Aug. 5	26.92	31	26.12
Aug. 7-13	12	28.72	Aug. 9	26.52
14-20	14	27.22	16	26.52
21-25	22	27.22	23	26.52
28-Sept. 3	29	27.32	Sept. 3	26.62
Sept. 4-10	Sept.10	30.82	8	26.72
11-17	14	31.92	17	27.42
18-24	21	28.12	24	27.22
25-Oct. 1	27	28.02	25	27.42
Oct. 2-8	Oct. 8	28.92	Oct. 2	27.42
9-15	12	28.42	14	27.02
16-22	16	27.92	22	26.82
23-29	26	27.62	27	25.32
30-Nov. 5	Nov. 2	27.92	Nov. 3	26.12
Nov. 6-12	11	28.32	10	25.62
13-19	13	28.42	17	25.12
20-26	20	27.82	24	25.02
27-Dec. 3	Dec. 1	28.12	Dec. 2	26.92
Dec. 4-10	8	27.82	4	26.92
11-17	12	27.92	17	26.82
18-24	24	31.52	23	26.52
25-31	25	32.12	31	26.92

13 (*907, p. 51; *937, p. 56; 945, p. 77; *987, p. 78; 1017, p. 195). U. S. Department of Commerce. On St. Simons Island, at lighthouse. Water levels, in feet above land-surface datum, 1946: Mar. 12, 34.61; July 13, 33.49; Dec. 14, 34.47.

33 (*886, p. 78; 907, p. 51; *937, p. 56; 945, p. 77; *987, p. 78; 1017, p. 195). Sea Island Co. On Lanier Island, at Sea Island Yacht Club, on west bank of Frederica River, south of causeway. No measurements made in 1946.

37 (*937, p. 56; 945, p. 77; *987, p. 79; 1017, p. 195). F. G. Horne. On St. Simons Island, about 0.25 mile south of Fort Frederica. Water levels, in feet above land-surface datum, 1946: Mar. 12, 31.33; July 13, 30.24; Dec. 14, 30.79.

44 (*886, p. 78; 907, p. 51; *937, p. 56; 945, p. 77; *987, p. 79; 1017, p. 195). Sea Island Co. On St. Simons Island, on north side Sea Island road, 0.5 mile west of Cloister Hotel, at Gun Club. Water level affected by tide.

Water level, in feet, 1946

Date	Hour	Water level in Black Bank River, in feet with reference to mean sea level	Water level in well, in feet above land-surface datum
Mar. 12	2:45 p.m.	+2.09	37.01
July 13	4:21 p.m	-.35	36.32
Dec. 14	5:13 p.m.	-.87	36.70

45 (*907, p. 52; *937, p. 56; 945, p. 77; *987, p. 79; 1017, p. 195). City of Brunswick. In northeastern part of city, in H. E. Coffin Park. No measurements made in 1946.

63 (*945, p. 78; *987, p. 79; 1017, p. 195). S. L. Lewis. About 0.7 mile west of Southern Junction, about 300 feet northeast of U. S. Highway 341, and 0.5 mile southeast of Burnett Creek. Water levels, in feet above land-surface datum, 1946: Mar. 11, 18.46; Sept. 19, 17.55; Dec. 15, 16.99.

100 (*886, p. 78; 907, p. 52; *937, p. 57; 945, p. 78; *987, p. 79; 1017, p. 196). New England Tourist Camp. On U. S. Highway 17, about 6.1 miles south of bridge over Altamaha River, about 300 feet east of highway. Water levels, in feet above land-surface datum, 1946: Mar. 11, 20.43; July 13, 20.40; Sept. 18, 20.35; Dec. 14, 20.83.

128 (*937, p. 57; 945, p. 78; *987, p. 79; 1017, p. 196). A. C. Harrison. At Thalman, about 0.1 mile south of crossing of Seaboard Railway and Atlanta, Birmingham & Coast Railway. Water levels, in feet above land-surface datum, 1946: Mar. 11, 33.36; Sept. 19, 33.74; Dec. 15, 33.78.

138 (*886, p. 78; 907, p. 52; *937, p. 57; 945, p. 78; *987, p. 79; 1017, p. 196). G. F. Cowman. About 300 feet south of marsh edge of South Brunswick River, on east side of U. S. Highway 17. Water levels, in feet above land-surface datum, 1946: Mar. 12, 34.02; July 14, 33.44; Sept. 19, 33.89; Dec. 15, 33.74.

143 (*907, p. 52; *937, p. 57; 945, p. 78; *987, p. 80; 1017, p. 196). J. F. McKee. St. Simons Island, about 0.5 mile east of Frederica Road, 0.4 mile north of Sea Island road at Black Banks. No measurements made in 1946.

192 (*907, p. 52; *937, p. 57; 945, p. 78; *987, p. 80; 1017, p. 196). Edgar Rittenhouse. In Brunswick, 0.25 mile north of Palmetto Cemetery, about 400 feet east of old canal. Water levels, in feet above land-surface datum, 1946: Mar. 11, 23.32; July 13, 22.21; Sept. 18, 22.14; Dec. 15, 21.72.

207 (*987, p. 80; 1017, p. 196). Glynn County. In Brunswick, on south side of Palmetto Cemetery, about 0.25 mile west of Atlantic Coast Line Railroad, 25 feet north of northeast corner of swimming pool at Negro recreation center. No measurements made in 1946.

Henry County

11 (*987, p. 80; 1017, p. 196). D. J. Arnold. At Hampton, about 70 feet west of center of U. S. Highway 41 and 6 feet south of wooden shed.

11--Continued.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 6	27.34	Mar. 14	26.58	Aug. 2	26.41	Oct. 30	27.78
12	26.80	May 11	25.96	Sept.20	27.34	Dec. 16	28.54
21	27.04	July 17	25.97	29	27.64	30	28.75
Mar. 5	26.66						

Liberty County

18 (*937, p. 57; 945, p. 78; *987, p. 80; 1017, p. 196). E. P. Way. In McIntosh, about 0.25 mile northwest of Atlantic Coast Line Railroad, on southwest side of State Highway 38. No measurements made in 1946.

19 (*907, p. 52; *937, p. 58; 945, p. 78; *987, p. 80; 1017, p. 196). Atlantic Coast Line Railroad. In McIntosh, about 300 feet southwest of crossing of railroad and State Highway 38, about 10 feet northwest of railroad. Water levels, in feet above land-surface datum, 1946: Mar. 11, 3.18; July 12, 3.00; Sept. 18, 3.15; Dec. 14, 3.15.

28 (*945, p. 78; *987, p. 80; 1017, p. 196). Midway Church. In Midway, in front of Midway Church, at northeast corner of intersection of U. S. Highway 17 and road to Colonels Island. Water levels, in feet above land-surface datum, 1946: Mar. 10, 9.84; July 12, 8.89; Sept. 17, 9.27; Dec. 13, 8.95.

36 (*907, p. 52; *937, p. 58; 945, p. 78; *987, p. 80; 1017, p. 196). W. M. Woods. Dorchester Station, about 0.1 mile east of Seaboard Railway Station, on north side of Sunbury road. Water levels, in feet above land-surface datum, 1946: Mar. 10, 15.87; July 12, 16.11.

38 (*907, p. 52; *937, p. 58; 945, p. 78; *987, p. 81; 1017, p. 196). Dana Stevens. About 0.4 mile south of Dorchester Village schoolhouse. Water levels, in feet below land-surface datum, 1946: Mar. 10, 8.38; July 13, 8.69; Sept. 18, 8.93; Dec. 13, 8.89.

43 (*907, p. 53; *937, p. 58; 945, p. 79; *987, p. 81; 1017, p. 197). C. H. Ricks. About 2 miles southeast of Dorchester Village, on north side of road to Colonels Island. Water levels, in feet below land-surface datum, 1946: Mar. 10, 1.44; Dec. 13, 3.95.

45 (*907, p. 53; *937, p. 58; *945, p. 79; *987, p. 81; 1017, p. 197). E. P. Way. At Sunbury, 0.3 mile north of Fort Morris. Water levels, in feet above land-surface datum, 1946: Mar. 10, 4.00; Sept. 18, 4.87; Dec. 13, 5.70.

53 (*886, p. 79; 907, p. 53; *937, p. 58; 945, p. 79; *987, p. 81; 1017, p. 197). F. F. Branan. About 2.5 miles south of Midway, on west side of U. S. Highway 17. Water levels, in feet above land-surface datum, 1946: Mar. 10, 26.30; July 13, 26.61; Sept. 17, 26.39; Dec. 13, 27.02.

75 (*937, p. 58; 945, p. 79; *987, p. 81; 1017, p. 197). Mrs. E. P. Way. About 3.7 miles south of Riceboro, along U. S. Highway 17, about 100 feet east of highway. Water levels, in feet above land-surface datum, 1946: July 13, 22.52; Sept. 18, 22.40; Dec. 13, 22.51.

95 (*937, p. 58; 945, p. 79; *987, p. 81; 1017, p. 197). W. M. S. Howard. On Colonels Island, in northwestern part, near marsh. Water levels, in feet above land-surface datum, 1946: Mar. 10, 14.22; July 13, 14.80; Dec. 13, 15.25.

137 (*907, p. 53; *937, p. 59; 945, p. 79; *987, p. 81; 1017, p. 197). H. A. Bacon. At Hinesville, about 0.5 mile northeast of Liberty County courthouse, along State Highway 38, on north side of highway. Water levels, in feet below land-surface datum, 1946: Mar. 11, 0.10; July 12, 0.41; Sept. 18, 0.23; Dec. 14, 0.45.

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140 (*907, p. 53; *937, p. 59; 945, p. 79; *987, p. 81; 1017, p. 197). Mrs. Amber Kiddy. At Allenhurst, about 0.1 mile southeast of Atlantic Coast Line Railroad, at site of old sawmill. Water levels, in feet below land-surface datum, 1946: Mar. 11, 0.41; July 12, 0.15; Sept. 18, 0.30.

170 (*937, p. 59; 945, p. 79; *987, p. 81; 1017, p. 197). J. H. Woodall. On north side of U. S. Highway 17, 0.3 mile northeast of Freedman's Grove. Water levels, in feet above land-surface datum, 1946: Mar. 10, 14.41; July 12, 14.47; Sept. 17, 14.25; Dec. 13, 14.54.

177 (*987, p. 82; 1017, p. 197). P. E. Youmans. In northeastern part of Colonels Island, about 20 feet north of owner's residence. Water levels, in feet above land-surface datum, 1946: Mar. 10, 10.92; July 13, 11.87; Dec. 13, 11.83.

Long County

8 (*907, p. 53; *937, p. 59; 945, p. 79; *987, p. 82; 1017, p. 197). Town of Ludowici. About 100 feet northwest of Atlantic Coast Line Railroad. Water levels, in feet below land-surface datum, 1946: Mar. 11, 11.04; May 8, 10.55; Dec. 14, 10.69.

McIntosh County

11 (*886, p. 79; 907, p. 53; *937, p. 59; 945, p. 80; *987, p. 82; 1017, p. 197). C. A. Stebbins. At Darien, southeast of State Highway 131, northeast of city park, about 25 feet west of swimming pool. Water levels, in feet above land-surface datum, 1946: Mar. 11, 9.16; July 13, 8.38; Dec. 14, 8.93.

14 (*937, p. 59; 945, p. 80; *987, p. 82; 1017, p. 197). C. H. Stebbins. At South Newport, northeast of intersection of U. S. Highway 17 and Harris Neck road. Water levels, in feet above land-surface datum, 1946: Mar. 12, 19.23; Sept. 18, 19.60; Dec. 14, 19.70.

22 (*937, p. 60; 945, p. 80; *987, p. 82; 1017, p. 198). D. E. McDonald. At Eulonia, on west side of U. S. Highway 17, about 0.25 mile south of road to Townsend. Water levels, in feet above land-surface datum, 1946: Mar. 12, 19.21; Dec. 14, 18.80.

25 (*937, p. 60; 945, p. 80; *987, p. 82; 1017, p. 198). A. D. Burns. At Crescent, on south side of State Highway 131, a short distance southeast of post office. Water levels, in feet above land-surface datum, 1946: Mar. 12, 2.92; July 13, 2.65; Sept. 18, 2.70.

27 (*907, p. 54; *937, p. 60; 945, p. 80; *987, p. 82; 1017, p. 198). C. B. Mallard. On east side of State Highway 131, about 0.4 mile south of right-angle bend in road near Crescent, near bluff on south branch of Sapelo River. Water levels, in feet above land-surface datum, 1946: Mar. 12, 11:55 a.m., 6.16; July 13, 12:00 noon, 6.28; Sept. 18, 12:48 p.m., 6.61; Dec. 14, 2:06 p.m., 6.72.

38 (*937, p. 60; 945, p. 80; *987, p. 82; 1017, p. 198). E. P. Maggioni & Co. At Harris Neck, on west bank of Barbours Island River, southeast of Harris Neck airport. No measurements made in 1946.

43 (*937, p. 60; 945, p. 80; *987, p. 82; 1017, p. 198). Shellman Bluff public well. At Shellman Bluff, between houses of Mallard Jones and Doby Hamons. Water levels, in feet above land-surface datum, 1946: Mar. 12, 18.11; Dec. 14, 19.66.

45 (*937, p. 60; 945, p. 80; *987, p. 83; 1017, p. 198). New Masonic Lodge. Half a mile south of Shellman Bluff. Water level, in feet above land-surface datum, 1946: Mar. 12, 3.98.

53 (*907, p. 54; *937, p. 60; 945, p. 80; *987, p. 83; 1017, p. 198). Townsend Band Mill. In Townsend, about 300 feet east of Seaboard Railway, north of Townsend, on Eulonia road. Water levels, in feet above land-surface datum, 1946: Mar. 11, 23.29; Dec. 14, 24.63.

85 (*907, p. 54; *937, p. 60; 945, p. 80; *987, p. 83; 1017, p. 198). R. C. Collins. About 0.7 mile west of Crescent, on south side of State Highway 131. Water levels, in feet below land-surface datum, 1946: Mar. 12, 3.59; Sept. 18, 3.52; Dec. 14, 3.33.

103 (*907, p. 54; *937, p. 60; 945, p. 80; *987, p. 83; 1017, p. 198). A. M. Durant. At Valona, on east side of owner's residence. Water levels, in feet above land-surface datum, 1946: Mar. 12, 23.48; Dec. 14, 25.28.

130 (*907, p. 54; *937, p. 60; 945, p. 80; *987, p. 83; 1017, p. 198). James O'Brien Estate. At Ridgeville, on east side of State Highway 131, 0.5 mile south of road to dock. Water levels, in feet above land-surface datum, 1946: Mar. 11, 16.54; Dec. 14, 16.67.

141 (*907, p. 54; *937, p. 61; 945, p. 80; *987, p. 83; 1017, p. 198). Sam Gardner. About 6 miles southeast of Townsend, on east side of Briardam road. Water levels, in feet above land-surface datum, 1946: Mar. 11, 20.1; Dec. 14, 20.83.

144 (*907, p. 54; *937, p. 61; 945, p. 80; *987, p. 83; 1017, p. 198). Col. Talbot Smith. About 1.5 miles northeast of Darien, about 0.25 mile east of State Highway 131, near marsh. Water levels, in feet above land-surface datum, 1946: Mar. 11, 21.46; July 13, 21.28; Sept. 18, 21.44; Dec. 14, 20.66.

180 (*987, p. 83; 1017, p. 198). D. C. Cowart. In Eulonia, about 75 feet west of center line of U. S. Highway 17, and about 50 feet south of center line of State Highway 131 extended. Water levels, in feet above land-surface datum, 1946: Mar. 12, 22.21; July 13, 22.64; Sept. 18, 22.70; Dec. 14, 22.55.

Mitchell County

9 (*987, p. 83; 1017, p. 198). City of Camilla. At Camilla, at water works plant, about 80 feet east of center line of Ellis Street, and about 50 feet north of center line of Twitty Street. Water level, in feet below land-surface datum, 1946: Dec. 16, 48.05.

Montgomery County

1 (*945, p. 81; *987, p. 84; 1017, p. 199). H. V. Thompson. In Ailey, about 0.25 mile southeast of Seaboard Railway station, and about 200 feet south of railway. Water level, in feet below land-surface datum, 1946: Mar. 5, 107.59.

Pierce County

2 (*907, p. 54; *937, p. 61; 945, p. 81; *987, p. 85; 1017, p. 199). City of Blackshear. In northeastern part of town, about 25 feet northwest of elevated concrete municipal water tank. Water levels, in feet below land-surface datum, 1946: Mar. 14, 58.92; Sept. 20, 58.73; Dec. 16, 59.38.

5 (*937, p. 61; 945, p. 81; *987, p. 85; 1017, p. 200). Town of Patterson. In Patterson, about 140 feet east of Atlantic Coast Line Railroad station. Water levels, in feet below land-surface datum, 1946: Mar. 14, 32.16; Sept. 20, 32.00; Dec. 16, 32.56.

Screven County

3 (*987, p. 85; 1017, p. 200). City of Sylvania. In Sylvania, 0.1 mile west of State Highway 21, at water works plant. Water levels, in feet below land-surface datum, 1946: July 9, 105.70; Dec. 10, 107.15.

8 (*987, p. 85; 1017, p. 200). W. W. Yant. In Dover, on southwest side of Central of Georgia Railway. Water level, in feet above land-surface datum, 1946: Dec. 10, 14.92.

Spalding County

12 (*987, p. 85; 1017, p. 200). Georgia State Agricultural Experiment Station. At Experiment, about 240 feet west of Central of Georgia Railway and 15 feet northeast of northeast corner of Flynt Building.

Highest and lowest weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week	Date	Highest level	Date	Lowest level
Jan. 1-7	Jan. 7	14.31	Jan. 1	15.45
8-9	9	13.60	8	13.95
14-21	21	12.18	14	13.14
27-Feb. 1	31	12.19	27	12.32
Feb. 2-8	Feb. 6	12.34	Feb. 8	12.59
9-15	10	12.19	12	12.59
16-22	22	11.87	16	12.41
23-Mar. 1	27	11.65	Mar. 1	11.94
Mar. 2-8	Mar. 2	11.87	6	12.08
9-15	14	12.18	11	12.35
16-22	19	12.24	21	12.38
23-29	29	11.97	27	12.42
30-Apr. 5	Apr. 4	11.61	31	11.91
Apr. 6-12	8	11.65	Apr. 12	11.81
13-19	16	11.80	18	12.05
20-26	20	12.08	22	12.24
27-May 3	27	12.42	May 1	12.55
May 4-10	May 4	12.58	10	12.85
11-17	11	12.78	17	13.01
18-24	24	12.79	19	13.17
25-31	26	12.65	31	12.81
June 1-7	June 2	12.77	June 6	12.99
8-14	8	12.98	14	13.24
15-21	15	13.28	21	13.40
22-28	22	13.49	27	13.63
29-July 5	July 1	13.65	July 5	13.81
July 6-12	6	13.83	12	13.96
13-19	13	14.00	19	14.25
20-26	20	14.28	24	14.48
27-Aug. 2	27	14.55	Aug. 2	14.78
Aug. 3-9	Aug. 3	14.81	9	15.04
10-16	10	15.05	16	15.35
17-23	18	15.33	23	15.60
24-30	24	15.64	30	15.86
31-Sept.6	31	15.95	Sept. 6	16.23
Sept. 7-12	Sept. 7	16.25	12	16.40
16-22	16	16.69	22	16.89
23-29	23	16.94	28	17.07
30-Oct. 6	30	17.07	Oct. 6	17.30
Oct. 7-13	Oct. 8	17.17	13	17.58
14-20	18	17.51	19	17.66
21-27	25	17.59	27	17.83
28-Nov. 3	Nov. 2	17.74	28	17.84
Nov. 4-10	7	17.83	Nov. 10	17.93
11-17	11	17.92	16	18.05
18-24	20	18.04	23	18.14
25-Dec. 1	25	18.12	28	18.24

12--Continued.

Highest and lowest weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week	Date	Highest level	Date	Lowest level
Dec. 2-8	Dec. 6	18.29	Dec. 8	18.38
9-15	12	18.30	15	18.44
16-21	20	18.47	21	18.67
24-31	24	18.62	31	18.80

Ware County

6 (*945, p. 81; *987, p. 86; 1017, p. 201). State of Georgia. At Laura S. Walker State Park, 9 miles southeast of Waycross, 1.7 miles south of State Highway 50, along State Highway 177, near elevated tank. Water level, in feet below land-surface datum, 1946: Dec. 20, 53.40.

Wayne County

1 (*907, p. 54; *937, p. 61; 945, p. 81; *987, p. 86; 1017, p. 201). City of Jessup. In Jessup, west of crossing of Southern Railway and Atlantic Coast Line Railroad. No measurements made in 1946.

3 (*907, p. 55; *937, p. 61; 945, p. 81; *987, p. 86; 1017, p. 201). A. W. Hurn. In Gardi, at northwest side of Hurn residence, about 200 feet southwest of Southern Railway. Water levels, in feet below land-surface datum, 1946: Mar. 11, 3.41; Sept. 20, 3.00; Dec. 16, 3.22.

4 (*907, p. 55; *937, p. 61; 945, p. 81; *987, p. 86; 1017, p. 201). State Highway Department. On southeast side of State Highway 25, 0.3 mile southeast of Mt. Pleasant. Water levels, in feet above land-surface datum, 1946: Mar. 11, 4.78; Sept. 20, 5.0; Dec. 16, 4.86.

10 (*937, p. 61; 945, p. 81; *987, p. 86; 1017, p. 201). Town of Screven. In Screven, about 600 feet west of Atlantic Coast Line Railroad station. Water levels, in feet below land-surface datum, 1946: Mar. 14, 56.48; Dec. 16, 56.77.

KENTUCKY

By E. A. Bell and M. I. Rorabaugh

PROGRAM OF WORK

The investigation of the ground-water resources in the Louisville area, which was initiated in 1943 in cooperation with the Geological Division of the Kentucky Department of Mines and Minerals, was continued in 1946 in cooperation with Jefferson County and the city of Louisville. This investigation, which was started because of a critical shortage of ground water for industrial use, was continued in order that records of water level and pumpage would be available to prevent the recurrence of a critical shortage.

A program to investigate the ground-water resources of the area northeast of Louisville, begun in 1945 in cooperation with the Louisville Water Company, was continued in 1946. This investigation covers an area with very small pumpage at the present time and includes a detailed study of supplies available by induced infiltration from the Ohio River.

The investigation of the ground-water supplies of Bourbon, Fayette, Jessamine, and Scott Counties, in central Kentucky, begun in 1945, was continued in 1946 in cooperation with the Geological Division of the Kentucky Department of Mines and Minerals.

In July 1946, in cooperation with the Geological Division of the Department of Mines and Minerals, a reconnaissance survey of ground-water problems of the State was begun.

As part of the investigation in the Louisville area, periodic water-level measurements were made in 134 wells. A total of 1,725 water-level measurements was made during 1946. Observations were made monthly in all wells and extra measurements were made during floods in wells affected by the Ohio River and in wells in heavily pumped areas. Additional observations were made in connection with pumping tests. Automatic water-stage recorders (float type) were maintained on 2 wells during the entire year and on 22 wells during part of the year; records obtained by automatic instruments total 140 months.

A multilithed report, "Ground-water resources of the southwestern part of the Louisville area, Kentucky" by M. I. Rorabaugh, was released in December 1946 through the Geological Survey, U. S. Department of the Interior.

FLUCTUATIONS OF WATER LEVEL

At the close of 1946, storage of ground water for the Louisville area as a whole was about the same as at the close of 1945, although parts of the area showed gains or losses.

In the distillery area, south of Algonquin Parkway, water levels averaged about 2.5 feet above those at the close of 1945, and in the "Rubbertown" area the gain during the year was about 2.0 feet. These gains reflected the curtailment of distillery operations because of the limitation on use of grain and reduced activities in the rubber plants.

The entire area north of Algonquin Parkway showed a loss of stored water during 1946, the water levels being 1.0 foot to 1.5 feet lower than those of December 1945. This loss may be attributed to two factors. First, loss of water to the "Rubbertown" cone which is at a lower elevation; and second, deficient rainfall during 1946. This area receives most of its natural recharge from rainfall.

In the downtown area water levels, which reflect heavy pumping for air conditioning, dropped 2.5 feet during the year. The low point reached in September was the lowest of record in this area.

Figure 8 shows graphs covering the past 10 years for wells representative of each of the heavily pumped areas. Well 47-12-1 is in the distillery area, well 45-14-1 is in the downtown area, and well 49-13-24 is in the "Rubbertown" area. Bar graphs of estimated average yearly pumpage for all the Louisville area are shown at the bottom of the illustration and graphs of estimated natural recharge are shown for the past 3 years. The estimates of pumpage are based on information furnished by industries, and recharge estimates are based on pumpage records and differences of water levels as determined by contours. In 1946, estimated average pumpage of 37 million gallons a day exceeded estimated natural recharge by a narrow margin.

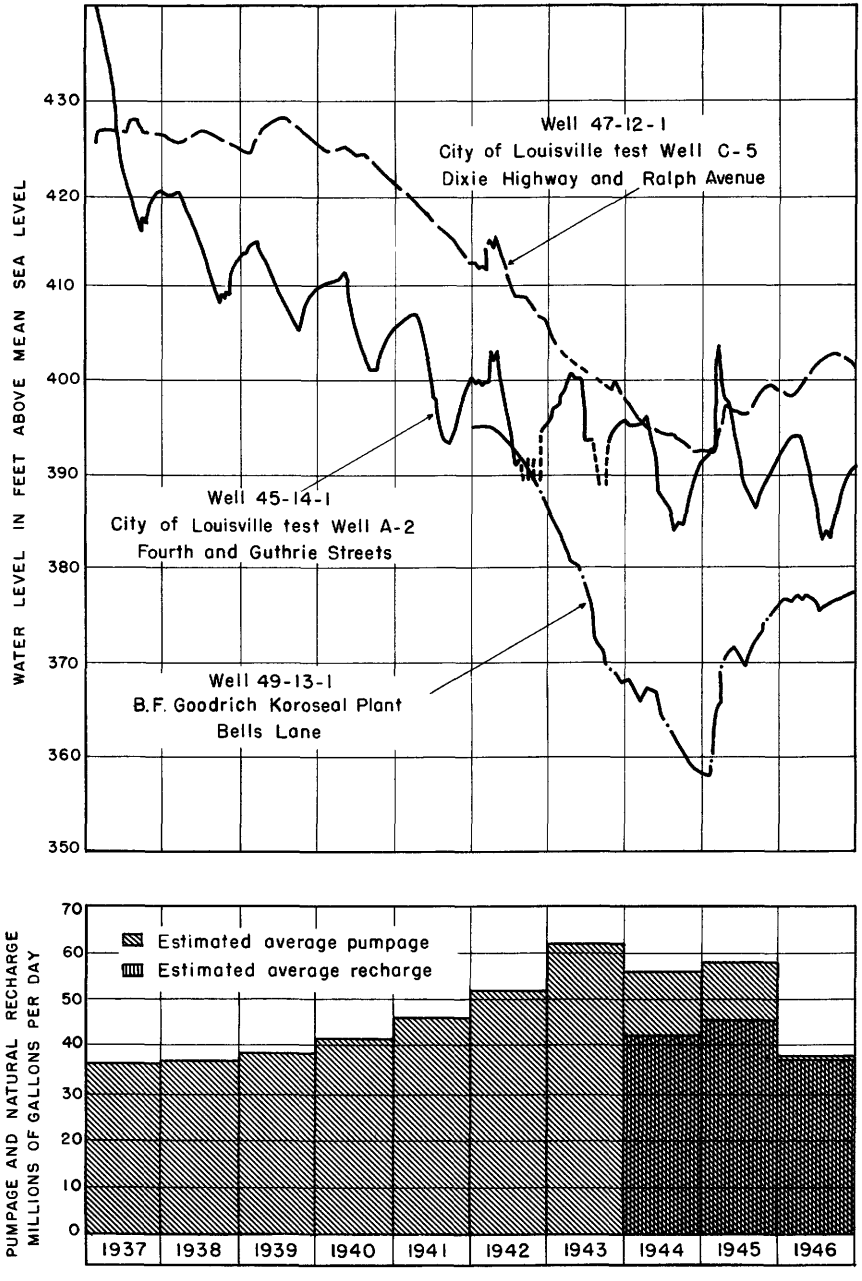

Figure 8.--Graphs of water levels, estimated pumpage, and estimated natural recharge in Louisville area, Kentucky.

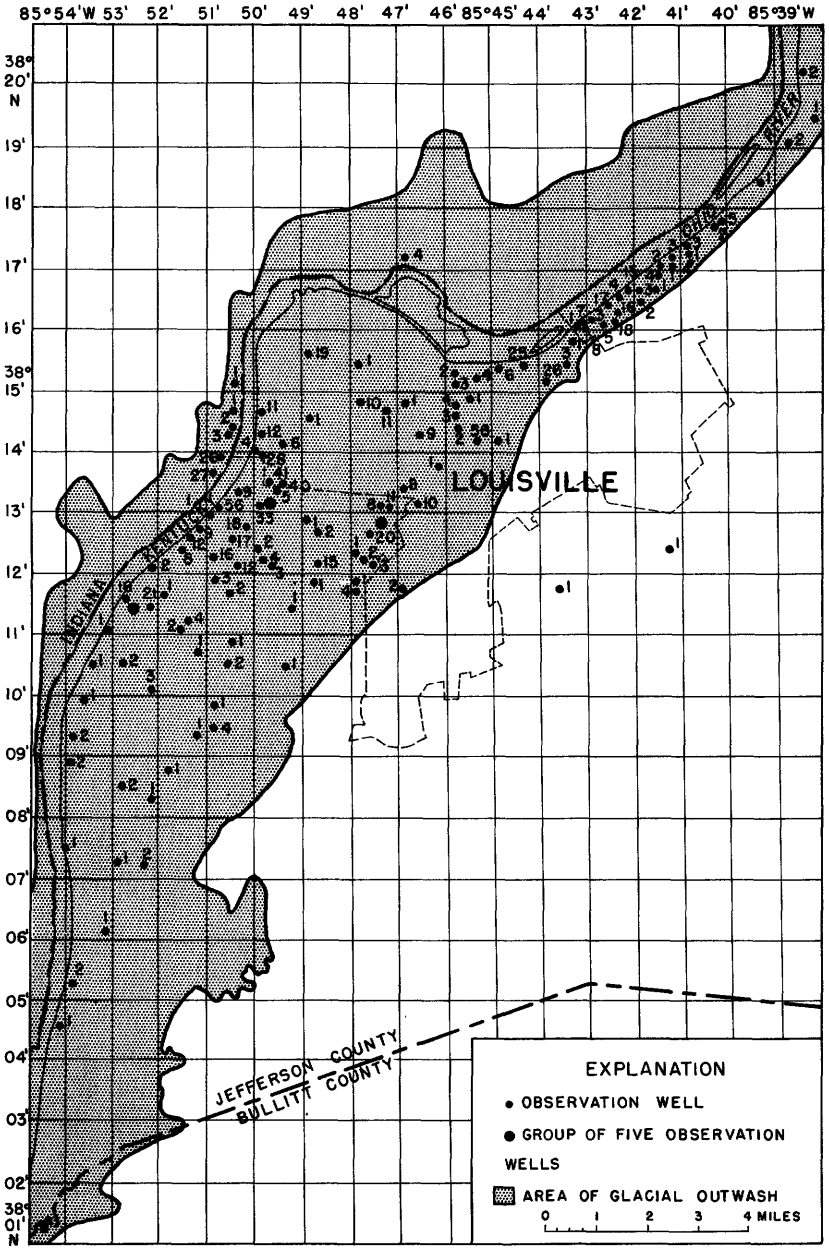

Figure 9.--Map showing location of observation wells in the Louisville area, Kentucky.

WELL-NUMBERING SYSTEM

The wells for which water-level measurements are listed in the following tables are all located in Jefferson County. Records for seven wells in the Louisville area, located in Indiana, are published in Water-Supply Paper 1071. The Louisville area lies between latitude 85° and 86° N. and longitude 38° and 39° W. The area has been subdivided into quadrangles formed by the 1-minute meridians and parallels. Wells in each quadrangle are numbered beginning with 1. Of nearly 700 wells inventoried only the ones selected for observation are shown on figure 9. Wells are designated by a composite of three numbers. The minutes of longitude of the quadrangle, the minutes of latitude of the quadrangle, and the number of the well in that quadrangle. Thus well 45-15-2 is the second well inventoried in the 1-minute quadrangle west of 85° 45' longitude and north of 38° 15' latitude. See figure for well locations.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Jefferson County

38-19-1 (*1017, p. 207; 1024, p. 115). Harrods Creek. 0.2 mile southwest of Harrods Creek Baptist Church. Measuring point raised 0.8 foot on Dec. 22, 1946; new measuring point, end of 2-inch coupling, 1.6 feet above land surface and about 431 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	18.83	Jan. 16	15.20	Feb. 14	16.71	Sept.11	(d)
11	17.00	17	15.95	Mar. 13	17.71	Oct. 9	(d)
12	14.67	18	16.65	Apr. 8	17.70	Nov. 7	(d)
13	12.69	19	16.95	May 14	18.50	20	(d)
14	11.47	21	17.54	June 19	18.14	Dec. 22	18.58
15	13.25	23	17.97	July 12	18.75		

d Dry above obstruction at 19.5 feet.

38-19-2. Louisville Water Co. well WC-27. Northwest side of Upper River Road, about 250 feet northeast of Goose Creek bridge. Drilled observation well, diameter 4 inches, depth 110 feet. Measuring point, top of plug, 2.29 feet above land-surface datum and 440.75 feet above mean sea level.

Water level, in feet below land-surface datum, 1945

Aug. 3	19.12	Sept.11	18.81	Nov. 7	18.65	Dec. 22	18.42
15	18.99	Oct. 9	18.75	20	18.48		

38-20-2 (*1017, p. 208; 1024, p. 115). W. W. Liter. 1.5 miles north of Harrods Creek.

Water level, in feet below land-surface datum, 1946

Jan. 3	18.83	May 14	18.43	Aug. 15	18.99	Nov. 7	18.80
Feb. 14	17.32	June 19	17.79	Sept.11	18.73	20	18.58
Mar. 13	17.38	July 12	19.70	Oct. 9	18.72	Dec. 22	18.57
Apr. 8	18.24						

39-18-1. Louisville Water Co. well WC-26. Southeast side of Upper River Road, opposite River Valley Club and 0.2 mile northeast of Navigation Light No. 186. Drilled observation well, diameter 4 inches, depth 130 feet. Measuring point, top of plug, 2.63 feet above land-surface datum and 458.57 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 31	36.35	Sept.11	36.28	Nov. 7	36.26	Dec. 22	36.12
Aug. 15	36.53	Oct. 9	36.26	20	36.07		

40-17-1 (*1017, p. 208; 1024, p. 115). Union Park Club 89. On River Road northeast of Indian Hills Trail.

Water level, in feet below land-surface datum, 1946

Jan. 3	23.84	Jan. 17	21.24	Apr. 8	22.91	Oct. 9	23.56
11	22.48	18	21.75	May 14	23.17	28	23.52
12	21.15	19	22.12	June 19	23.12	Nov. 5	23.51
13	19.92	21	22.58	July 12	23.22	7	23.55
14	19.03	23	23.16	Aug. 15	23.74	20	23.36
15	19.45	Feb. 14	22.97	Sept.11	23.54	Dec. 20	23.18
16	20.52	Mar. 13	22.73				

40-17-2 (*1017, p. 208; 1024, p. 115). Louisville Trust Co. Blankenbaker Lane, south of River Road.

Water level, in feet below land-surface datum, 1946

Jan. 3	17.05	Jan. 16	14.61	Feb. 14	15.83	Aug. 15	17.04
11	14.29	17	15.10	Mar. 13	15.87	Sept.11	16.65
12	12.26	18	15.74	Apr. 8	16.29	Oct. 9	16.72
13	10.97	19	15.89	May 14	16.35	Nov. 7	16.77
14	10.68	21	16.43	June 19	16.25	20	16.52
15	12.65	23	16.60	July 12	16.48	Dec. 20	16.55

40-17-3. Louisville Water Co. well WC-11. Northeast corner of intersection of Upper River Road and Indian Hills Trail. Drilled observation well, diameter 4 inches, depth 103 feet. Measuring point, top of plug, 2.84 feet above land-surface datum and 436.34 feet above mean sea level. Automatic water-stage recorder maintained on well from June 4 to Sept. 27.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

May 29	a 17.51	July 5	13.72	Aug. 7	14.03	Sept. 5	14.45
June 3	a 12.82	8	a 13.68	8	14.08	6	14.00
4	12.52	9	13.69	9	14.03	7	13.79
5	12.12	10	13.40	10	13.89	8	13.77
6	11.59	11	13.36	11	14.09	9	13.80
7	11.99	12	13.60	12	13.74	10	13.96
8	12.04	13	13.70	13	14.04	11	13.67
9	12.68	14	13.60	14	13.99	12	13.78
10	a 13.02	15	13.60	15	14.14	13	13.86
11	13.11	16	13.80	16	14.26	14	13.85
12	12.99	17	13.64	17	13.98	15	13.77
13	13.51	18	13.80	18	13.79	16	13.64
17	a 13.96	19	13.80	19	13.60	17	13.77
18	13.62	20	13.64	20	13.62	18	13.86
19	13.39	21	13.44	21	13.92	19	13.92
20	13.60	22	13.66	22	13.69	20	13.94
21	13.53	23	13.91	23	13.67	21	13.82
22	13.53	24	13.72	24	13.98	22	13.93
23	13.53	25	13.78	25	13.98	23	13.81
24	13.52	26	13.70	26	14.02	24	13.87
25	13.39	29	a 14.02	27	14.00	25	13.95
26	13.41	30	13.92	28	14.03	26	13.83
27	13.38	31	13.91	29	14.02	27	13.84
28	13.37	Aug. 1	13.92	30	14.13	Oct. 9	13.78
29	13.73	2	13.95	31	14.23	28	13.61
30	13.54	3	13.94	Sept. 1	14.25	Nov. 5	13.66
July 1	13.42	4	13.99	2	14.14	7	13.88
2	13.35	5	14.09	3	14.34	20	13.60
3	13.58	6	14.14	4	14.44	Dec. 20	13.56
4	13.65						

a Tape measurement at another hour.

40-17-4. Louisville Water Co. well WC-12. Northeast side of Indian Hills Trail, 1,500 feet southeast of Upper River Road. Drilled observation well, diameter 4 inches, depth 74.4 feet. Measuring point, top of plug, 2.59 feet above land-surface datum and 437.75 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 4	15.5	Aug. 14	15.32	Oct. 28	15.26	Nov. 20	15.05
19	13.74	Sept.11	15.25	Nov. 5	15.20	Dec. 20	14.74
July 12	13.99	Oct. 9	15.29	7	15.25		

40-17-5. Louisville Water Co. well WC-13. On property of Lyndon Everbach, southeast side of Upper River Road, 300 feet northeast of Blankenbaker Lane. Drilled observation well, diameter 4 inches, depth 105.6 feet. Measuring point, top of plug, 3.14 feet above land-surface datum and 442.01 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

June 6	19.15	Aug. 15	19.56	Oct. 9	19.20	Nov. 20	19.02
19	18.76	Sept.11	19.13	Nov. 7	19.27	Dec. 20	19.11
July 12	18.98						

41-12-1 (*1017, p. 208; 1024, p. 116). Lighthouse Lake. On Gardiner Ave. between Newberg Road and Bardstown Road.

Water level, in feet below land-surface datum, 1946

Feb. 19	h0.9	June 4	0.44	Oct. 4	1.26	Dec. 18	x10.62
Apr. 4	.5	Aug. 13	1.16	Nov. 21	(w)		

h Above land-surface datum.
w Water pumped out of lake.
x Lake refilling.

41-16-1 (*1017, p. 209; 1024, p. 116). Attilla Cox. 0.2 mile southeast of point at River Road and Wagner Beach road sign.

Water level, in feet below land-surface datum, 1946

Jan. 3	15.10	Jan. 17	12.69	Apr. 8	13.94	Oct. 9	14.92
11	14.36	18	12.95	May 15	14.18	28	15.06
12	13.73	19	13.17	June 20	14.21	Nov. 5	15.03
13	12.90	21	13.54	July 12	14.25	7	14.86
14	12.10	23	13.47	Aug. 15	14.97	20	14.73
15	12.05	Feb. 15	13.85	Sept.11	14.91	Dec. 19	14.37
16	12.43	Mar. 13	13.87				

41-16-2. Louisville Water Co. well WC-3. On property of Louisville Water Co., northeast side of Zorn Ave., 900 feet southeast of Upper River Road. Drilled observation well, diameter 4 inches, depth 94 feet. Measuring point, top of recorder floor, 4.33 feet above land-surface datum and 432.79 feet above mean sea level. Automatic water-stage recorder maintained on well from Nov. 1 to Dec. 31.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Apr. 18	a	8.47	Nov. 10		9.15	Nov. 28		8.74	Dec. 15		8.60
May 20	a	8.01	11		9.16	29		8.72	16		8.58
June 21	a	8.45	12		9.18	30		8.68	17		8.75
July 12	a	8.67	13		9.11	Dec. 1		8.69	18		8.68
Aug. 15	a	9.17	14		9.08	2		8.73	19		8.67
Sept.11	a	9.14	15		9.09	3		8.77	20		8.63
Oct. 10	a	9.17	16		9.09	4		8.83	21		8.63
28	a	9.44	17		9.09	5		8.79	22		8.80
31	a	9.41	18		9.09	6		8.87	23		8.73
Nov. 1		9.41	19		9.07	7		8.86	24		8.69
2		9.42	20		9.03	8		8.86	25		8.66
3		9.44	21		9.03	9		8.86	26		8.64
4		9.48	22		9.06	10		8.81	27		8.63
5		9.47	23		9.04	11		8.82	28		8.72
6		9.27	24		8.98	12		8.75	29		8.83
7		9.18	25		8.99	13		8.65	30		8.83
8		9.23	26		8.92	14		8.61	31		8.93
9		9.21	27		8.83						

a Tape measurement at another hour.

41-16-3. Louisville Water Co. well WC-4. On property of Louisville Water Co., at northwest corner of intersection of Upper River Road and Zorn Ave. Drilled observation well, diameter 4 inches, depth 104.2 feet. Measuring point, top of recorder floor, 1.05 feet above land-surface datum and 436.84 feet above mean sea level. Automatic water-stage recorder maintained on well from Sept. 30 to Dec. 31.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 23	a 14.93	Oct. 15	16.59	Nov. 5	16.83	Nov. 30	15.95
May 20	a 15.38	16	a 16.47	6	16.54	Dec. 1	15.97
June 21	a 15.82	17	16.46	7	16.47	2	16.01
July 12	a 16.00	18	16.41	8	16.47	3	16.10
Aug. 15	a 16.50	19	16.47	9	16.46	4	16.13
Sept.12	a 16.39	20	16.45	10	16.41	5	16.08
30	16.40	21	16.42	11	16.41	6	16.17
Oct. 1	16.47	22	16.45	12	16.42	7	16.15
2	16.46	23	16.68	13	16.40	8	16.16
3	16.47	24	16.71	14	16.37	9	16.14
4	16.57	25	16.75	15	16.37	10	16.10
5	16.61	26	16.77	16	16.35	11	16.15
6	16.60	27	16.85	17	16.36	12	16.03
7	16.53	28	16.87	20	16.29	13	15.97
8	16.51	29	16.82	21	16.29	14	15.92
9	16.49	30	16.81	22	16.35	15	15.93
10	16.43	31	16.78	25	16.21	16	15.93
11	16.49	Nov. 1	16.79	26	16.15	17	16.04
12	16.54	2	16.79	27	16.05	24	15.98
13	16.59	3	16.81	28	16.01	30	a 16.11
14	16.52	4	16.84	29	15.98	31	16.22

a Tape measurement at another hour.

41-16-4. Louisville Water Co. well WC-9. On the Gaulbert property, southeast side of Upper River Road at entrance to Wagner Beach. Drilled observation well, diameter 4 inches, depth 104 feet. Measuring point, top of plug, 3.36 feet above land-surface datum and 441.36 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

May 21	19.70	Aug. 15	18.48	Oct. 28	18.44	Nov. 20	18.20
June 20	17.81	Sept.11	18.36	Nov. 5	18.42	Dec. 20	18.00
July 12	17.96	Oct. 9	18.37	7	18.35		

41-17-1 (*1017, p. 209; 1024, p. 116). Sam J. Hamrick. 500 feet south of River Road, 1.0 mile east of Zorn Ave.

Water level, in feet below land-surface datum, 1946

Jan. 3	24.35	Jan. 17	21.80	Apr. 8	23.35	Oct. 9	24.07
11	23.09	18	22.20	May 14	23.69	28	24.04
12	21.90	19	22.58	June 20	23.62	Nov. 5	24.00
13	20.80	21	23.02	July 12	23.70	7	24.02
14	20.00	23	23.45	Aug. 15	24.22	20	23.87
15	20.36	Feb. 14	23.52	Sept.11	24.05	Dec. 20	23.65
16	21.25	Mar. 13	23.25				

41-17-2. Louisville Water Co. well WC-8. 50 feet from edge of Ohio River at Wagner Beach. Drilled observation well, diameter 4 inches, depth 95.6 feet. Measuring point, top of plug, 1.78 feet above land-surface datum and 429.24 feet above mean sea level. Automatic water-stage recorder maintained on well from May 25 to Sept. 27.

41-17-2--Continued.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	7.29	7.33	7.85	8.16	....	....	....
2	....	7.00	7.28	7.90	8.07	....	....	....
3	....	6.93	7.50	7.93	8.24	....	....	....
4	....	6.56	7.55	7.92	8.31	....	....	....
5	....	6.28	7.63	8.01	8.31	....	a7.68	....
6	....	a5.90	7.50	8.10	7.90	....	....	....
7	....	6.25	7.64	7.95	7.76	....	a7.86	....
8	....	6.24	7.63	8.00	7.73	....	....	....
9	....	6.83	7.58	7.96	7.77	a7.78	....	....
10	....	6.89	7.26	7.88	7.91	....	....	....
11	....	7.14	7.34	8.01	7.62	....	....	....
12	....	6.97	7.49	7.71	7.77	....	....	....
13	....	7.66	7.57	7.97	7.83	....	....	....
14	....	7.49	7.49	7.91	7.80	....	....	....
15	....	7.62	7.54	8.03	7.77	....	....	....
16	....	7.65	7.69	8.11	7.66	....	....	....
17	....	7.66	7.62	7.90	7.74	....	....	....
18	....	7.38	7.69	7.74	7.82	....	....	....
19	....	7.36	7.71	7.57	7.88	....	....	....
20	....	a7.53	7.58	7.56	7.89	....	a7.58	a7.55
21	....	7.40	7.42	7.83	7.78	....	....	....
22	....	7.44	7.60	7.63	7.87	....	....	....
23	....	7.45	7.84	7.63	7.77	....	....	....
24	7.11	7.46	7.67	7.86	7.83	....	....	....
25	6.91	7.34	7.69	7.85	7.90	....	....	....
26	7.19	7.39	7.62	7.92	7.80	....	....	....
27	7.12	7.31	7.51	7.94	7.79	....	....	....
28	7.31	7.27	7.73	7.94	....	a7.64	....	....
29	7.40	7.67	7.79	7.95	....	....	....	....
30	7.58	7.46	7.88	8.06	....	....	....	....
31	7.27		7.84	8.14		....		....

a Tape measurement at another hour.

41-17-3. Louisville Water Co. well WC-10. 25 feet from edge of Ohio River, 1,750 feet upstream from Wagner Beach. Drilled observation well, diameter 4 inches, depth 103 feet. Measuring point, top of plug, 3.39 feet above land-surface datum and 439.07 feet above mean sea level. Automatic water-stage recorder maintained on well from May 25 to Sept. 27.

Daily noon water-level, in feet below land-surface datum, 1946
(From recorder charts)

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	15.61	15.74	16.21	16.59	.....	.....	.....
2	.....	15.24	15.65	16.28	16.41	.....	.....	.....
3	.....	15.19	15.96	16.31	16.65	.....	.....	.....
4	.....	14.73	15.99	16.30	16.87	.....	.....	.....
5	.....	14.40	16.12	16.39	16.74	.....	a15.88	.....
6	.....	a13.96	15.89	16.46	16.23	.....	.....	.....
7	.....	14.53	16.04	16.26	16.05	.....	a16.16	.....
8	.....	e14.4	16.05	16.36	16.03	.....	.....	.....
9	.....	15.26	15.96	16.30	16.09	a16.04	.....	.....
10	.....	e15.2	15.56	16.19	16.30	.....	.....	.....
11	.....	e15.6	15.60	16.31	15.89	.....	.....	.....
12	.....	e15.6	15.82	16.02	16.13	.....	.....	.....
13	.....	16.28	15.91	16.38	16.19	.....	.....	.....
14	.....	15.95	15.82	16.28	16.12	.....	.....	.....
15	.....	16.14	15.92	16.46	16.12	.....	.....	.....
16	.....	16.18	16.07	16.51	15.96	.....	.....	.....
17	.....	16.29	15.97	16.29	16.08	.....	.....	.....
18	.....	15.78	16.06	16.10	16.19	.....	.....	.....
19	.....	15.76	16.09	15.88	16.23	.....	.....	.....
20	.....	16.08	15.92	15.89	16.27	.....	a15.84	a15.99
21	.....	15.86	15.74	16.25	16.13	.....	.....	.....
22	.....	15.88	15.96	15.97	16.25	.....	.....	.....

a Tape measurement at another hour.
e Estimated

41-17-3--Continued.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
23	a15.07	15.88	16.22	15.97	16.13	.....	.....	.....
24	a15.58	15.91	16.00	16.25	16.15	.....	.....	.....
25	15.25	15.74	16.03	16.26	16.27	.....	.....	.....
26	15.63	15.83	15.91	16.26	16.13	.....	.....	.....
27	15.51	15.69	15.83	16.30	16.11	.....	.....	.....
28	15.73	15.67	16.08	16.31	.....	a15.77	.....	.....
29	15.83	16.16	16.17	16.29	.....	.....	.....	.....
30	16.03	15.89	16.22	16.45	.....	.....	.....	.....
31	15.63		16.24	16.56		.....		.....

a Tape measurement at another hour.

42-16-3 (*1017, p. 209; 1024, p. 116). Louisville Gas & Electric Co. At Beargrass Plant.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	8.54	Jan. 18	6.46	Apr. 11	7.00	Oct. 10	7.92
11	6.47	19	6.55	May 15	7.30	28	7.85
12	4.77	21	6.94	June 21	7.21	Nov. 5	7.88
13	2.83	23	7.07	July 12	7.31	7	8.00
14	2.77	Feb. 14	6.64	Aug. 15	7.88	20	7.94
15	4.55	Mar. 13	7.04	Sept.12	7.78	Dec. 19	7.78
16	5.76						

42-16-4 (*1017, p. 210; 1024, p. 116). Louisville Gas & Electric Co. 93 feet south of Ohio River bank, 225 feet west of white cabin about 0.3 mile north of River Road, at a point 0.5 mile northeast of owner's plant property. Section of pipe replaced Jan. 12, 1946; measuring point raised 0.06 foot. New measuring point, top of casing, 2.4 feet above land-surface datum and 430.38 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Jan. 12	4.86	Jan. 18	7.25	Apr. 11	7.45	Oct. 10	8.59
13	3.61	19	7.46	May 15	8.00	28	8.70
14	3.73	21	7.60	June 21	8.05	Nov. 5	8.73
15	5.55	23	7.70	July 12	8.23	7	8.57
16	6.74	Feb. 15	6.96	Aug. 15	8.72	20	8.33
17	6.86	Mar. 13	7.35	Sept.11	8.55	Dec. 19	8.16

42-16-5 (*1017, p. 210; 1024, p. 116). Henry Chambers. 600 feet south of River Road, opposite Louisville Gas & Electric Co. power plant.

Water level, in feet below land-surface datum, 1946

Jan. 3	14.11	Jan. 17	11.32	Apr. 11	12.30	Oct. 10	13.30
11	13.30	18	11.50	May 15	12.50	28	13.43
12	12.52	19	11.67	June 21	12.17	Nov. 5	13.42
13	11.50	21	11.99	July 12	12.61	7	13.43
14	10.77	23	12.38	Aug. 15	13.04	20	13.54
15	10.78	Feb. 14	12.07	Sept.12	13.01	Dec. 19	13.20
16	11.16	Mar. 13	12.42				

42-16-15. Louisville Water Co. well WC-5. 160 feet from edge of Ohio River, 300 feet west of Louisville Water Co's pumping station. Drilled observation well, diameter 4 inches, depth 102.4 feet. Measuring point, top of recorder floor, 2.79 feet above land-surface datum and 437.90 feet above mean sea level. Automatic water-stage recorder maintained on well from May 22 to Dec. 31.

42-16-15--Continued.

Daily noon water-level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	15.09	15.21	15.70	16.02	15.65	18.24	15.15
2	.....	.....	14.87	15.12	15.73	15.94	15.65	18.13	15.25
3	.....	.....	14.86	15.34	15.64	16.08	15.71	18.20	15.69
4	.....	.....	14.53	15.40	15.81	16.20	15.82	18.18	15.39
5	.....	.....	14.15	15.47	15.85	16.19	15.84	18.19	15.44
6	.....	.....	13.72	15.38	15.90	15.76	15.70	15.68	15.40
7	.....	.....	14.12	15.50	15.82	15.59	15.64	15.73	15.31
8	.....	.....	14.10	15.48	15.87	15.61	15.68	15.68	15.39
9	.....	.....	14.60	15.43	15.82	15.60	15.60	15.56	15.28
10	.....	.....	14.71	15.16	15.70	15.73	15.54	15.71	15.44
11	.....	.....	14.92	15.13	15.90	15.48	15.80	15.63	15.47
12	.....	.....	14.79	15.36	15.56	15.59	15.76	15.54	15.39
13	.....	.....	15.36	15.49	15.79	15.66	15.67	15.52	15.13
14	.....	.....	15.39	15.35	15.84	15.65	15.74	15.54	15.35
15	.....	.....	e15.45	15.36	15.87	15.55	15.83	15.55	15.35
16	.....	.....	e15.59	15.54	15.96	15.44	15.43	15.43	15.48
17	.....	.....	15.63	15.48	15.76	15.57	14.72	15.50	15.32
18	.....	.....	15.33	15.54	15.52	15.66	15.34	15.54	15.11
19	.....	.....	15.22	15.55	15.37	15.71	15.38	15.51	15.31
20	.....	a15.09	15.30	15.37	15.41	15.70	15.55	15.41	15.41
21	.....	.....	15.32	15.16	15.65	15.60	15.56	15.35	15.43
22	.....	14.67	15.34	15.41	15.47	15.70	15.59	15.54	15.39
23	.....	14.77	15.33	15.71	15.46	15.60	18.22	15.49	15.36
24	.....	14.96	15.34	15.51	15.75	15.65	18.16	15.57	15.19
25	.....	14.72	15.22	15.59	15.75	15.72	18.21	15.30	15.09
26	.....	15.00	15.24	15.52	15.79	15.62	.....	15.07	15.17
27	.....	14.95	15.16	15.31	15.76	15.64	18.32	15.05	15.29
28	.....	15.13	15.16	15.62	15.80	15.60	18.21	15.27	15.38
29	.....	15.23	15.44	15.61	15.79	15.59	18.22	15.07	15.62
30	a15.06	15.44	15.31	15.76	15.87	15.57	18.18	15.15	15.69
31		15.14		15.70	15.97		18.13		15.75

a Tape measurement at another hour.
e Estimated.

42-16-16. Louisville Water Co. well WC-6. On property of Louisville Gas & Electric Co., 1,400 feet northeast of Beargrass plant and 600 feet northwest of Upper River Road. Drilled observation well, diameter 4 inches, depth 102.2 feet. Measuring point, top of plug, 3.64 feet above land-surface datum and 432.83 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 15	10.20	Aug. 15	10.87	Oct. 28	11.09	Nov. 20	10.96
June 21	10.19	Sept.11	10.82	Nov. 5	11.13	Dec. 19	10.66
July 12	10.41	Oct. 10	10.97	7	11.03		

42-16-17. Louisville Water Co. well WC-7. On property of Louisville Gas & Electric Co., 1,400 feet northeast of Beargrass plant, 20 feet from edge of Ohio River. Drilled observation well, diameter 4 inches, depth 89 feet. Measuring point, top of recorder floor, 3.93 feet above land surface and 426.65 feet above mean sea level. Automatic water-stage recorder maintained on well from June 4 to Dec. 31.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	....	3.03	3.57	3.99	3.48	3.60	....
2	.....	....	2.97	3.62	3.78	3.58	3.43	a3.31
3	.....	a2.62	3.22	3.66	3.93	3.67	3.47	3.68
4	.....	2.45	3.27	3.61	4.11	3.76	3.42	3.40
5	.....	2.25	3.35	3.73	4.02	3.75	3.42	3.46
6	.....	1.70	3.18	3.81	3.58	3.62	3.51	3.35
7	.....	2.22	3.34	3.62	3.42	3.56	3.59	3.37

a Tape measurement at another hour.

42-16-17--Continued.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
8	....	2.16	3.35	3.69	3.37	3.57	3.53	3.43
9	a3.1	2.75	3.28	3.62	3.43	3.47	3.42	3.31
10	....	2.66	2.93	3.53	3.47	3.41	3.57	3.44
11	....	2.89	2.96	3.67	3.30	3.71	3.51	3.53
12	....	2.57	3.18	3.33	3.50	3.80	3.39	3.38
13	....	3.44	3.26	3.67	3.54	3.60	3.41	3.11
14	....	3.15	3.14	3.60	3.50	3.67	3.47	3.34
15	a3.19	3.30	3.19	3.73	3.46	3.73	3.47	3.40
16	....	3.36	3.35	3.81	3.31	....	3.31	3.52
17	....	3.46	3.27	3.61	3.47	a3.52	3.43	3.32
18	....	3.03	3.36	3.42	3.57	3.35	3.47	3.14
19	....	3.03	3.40	3.27	3.61	3.25	3.45	3.39
20	....	3.28	3.25	3.29	3.66	3.47	3.37	3.41
21	....	3.09	3.09	3.63	3.53	3.25	3.28	3.51
22	....	3.19	3.29	3.39	3.64	3.46	3.55	3.45
23	....	3.22	3.56	3.40	3.49	3.66	3.49	3.46
24	....	3.23	3.37	3.63	3.59	3.61	3.60	3.22
25	....	3.10	3.42	3.60	3.65	3.53	3.20	3.22
26	....	3.15	3.31	3.61	3.51	3.48	....	3.22
27	....	2.99	3.20	3.69	3.50	3.69	....	3.36
28	....	2.96	3.44	3.69	3.47	3.47	....	3.45
29	....	3.42	3.52	3.66	3.46	3.53	....	3.57
30	....	3.20	3.58	3.80	3.55	3.47	....	3.69
31	....		3.57	3.90		3.42		3.78

a Tape measurement at another hour.

42-16-18. Louisville Water Co. well WC-14. Northeast side of Frey's Lane, 800 feet southeast of Upper River Road. Drilled observation well, diameter 4 inches, depth 86 feet. Measuring point, top of plug, 0.79 foot above land-surface datum and 435.38 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 8	15.0	Aug. 15	16.44	Oct. 28	16.77	Nov. 20	16.58
21	15.73	Sept.11	16.45	Nov. 5	16.80	Dec. 19	16.21
July 12	16.01	Oct. 10	16.61	7	16.64		

43-11-1 (*1017, p. 210; 1024, p. 117). L. Cave. At 1324 Morgan St.

Water level, in feet below land-surface datum, 1946

Jan. 16	12.93	Apr. 4	11.80	July 10	13.52	Oct. 4	13.56
Feb. 19	9.88	May 10	13.48	Aug. 13	13.51	Nov. 21	13.54
Mar. 13	12.44	June 4	13.51	Sept. 3	13.54	Dec. 18	13.37

43-15-1 (*1017, p. 211; 1024, p. 117). City of Louisville well M-1. 12 feet west of northwest corner of Point Sewerage Pumping Station on Letterle Ave., 0.2 mile south of intersection with River Road. Automatic water-stage recorder maintained on well from Jan. 1 to Sept. 19.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	33.84	32.86	32.17	31.83	32.56	.....	32.44	32.42	33.08	.....	.....	.....
2	.....	32.85	32.12	31.84	32.67	.....	32.56	32.41	33.31	.....	.....	.....
3	.....	32.69	32.08	31.92	32.76	31.77	32.67	32.38	33.40	.....	.....	.....
4	.....	32.64	32.09	31.95	32.69	31.75	32.67	32.34	33.50	.....	.....	.....
5	.....	32.77	32.14	31.95	32.32	31.72	32.74	32.34	33.59	.....	a33.30	.....
6	.....	32.16	32.21	31.95	32.59	31.50	32.80	32.23	33.57	.....	.....	.....
7	a33.91	32.07	32.21	31.75	32.72	31.42	32.38	32.50	33.58	.....	a33.81	.....
8	33.80	32.19	32.21	32.03	32.76	31.34	32.62	32.55	33.2	.....	.....	.....
9	.....	32.27	32.20	32.21	32.74	31.36	32.89	32.49	33.27	.....	.....	.....
10	.....	32.30	32.32	32.22	32.77	31.41	32.90	32.49	33.38	a33.31	.....	.....
11	.....	32.26	32.31	32.09	32.77	31.47	32.90	32.56	33.35	.....	.....	.....

a Tape measurement at another hour.

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43-15-1--Continued.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12	.....	32.36	32.37	32.29	32.49	31.53	32.94	32.55	33.35	.....	.....	.....
13	.....	32.33	32.45	32.33	32.59	31.52	33.02	32.54	33.39	.....	.....	.....
14	a29.85	32.07	a32.32	31.99	32.76	31.56	32.56	32.57	33.37	.....	.....	.....
15	30.20	32.03	32.20	32.30	32.79	31.62	32.57	32.52	.....	.....	.....	.....
16	.....	32.03	32.30	32.48	32.80	31.62	32.77	32.46	.....	.....	.....	.....
17	a31.00	32.03	32.00	32.33	32.53	31.72	32.83	32.51	33.10	.....	.....	.....
18	31.60	32.02	32.24	32.47	32.40	31.77	32.76	b32.5	33.19	.....	.....	a34.06
19	31.71	32.02	.....	32.60	32.12	31.80	32.65	a32.55	33.19	.....	.....	.....
20	31.56	32.07	.....	32.67	32.01	31.58	32.47	.....	.....	.....	a33.78	.....
21	31.74	32.10	.....	32.29	31.95	31.74	32.20	.....	.....	.....	.....	.....
22	32.10	32.05	.....	32.40	31.89	31.79	32.08	.....	.....	.....	.....	.....
23	32.26	32.05	.....	32.51	31.82	31.79	32.10	.....	.....	.....	.....	.....
24	32.28	32.05	.....	32.59	31.79	a32.07	32.17	.....	a32.82	.....	.....	.....
25	32.42	32.05	a32.06	32.64	31.74	32.15	32.22	.....	.....	.....	.....	.....
26	32.58	32.01	a31.93	32.61	31.64	32.21	32.32	33.13	.....	.....	.....	.....
27	32.33	32.06	31.70	32.72	31.69	32.39	32.23	33.29	.....	.....	.....	.....
28	32.46	32.12	31.73	32.39	.....	32.45	32.25	33.38	.....	a33.61	.....	.....
29	32.62		31.87	32.56	.....	e32.6	32.24	33.44	.....	.....	.....	.....
30	32.66		31.95	32.63	.....	32.23	32.38	33.45	.....	.....	.....	.....
31	.....		31.64	.....			32.50	33.41		.....		.....

a Tape measurement at another hour.
e Estimated.

43-15-3. E. H. Koch. At 1415 Quincy Ave., in compressor room, between packing plant and sales room. Abandoned drilled industrial well, diameter 3 inches, depth 65 feet. Measuring point, top of casing, 1.2 feet above land-surface datum and 442.3 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 14	31.86	July 12	32.05	Oct. 10	32.71	Nov. 20	33.07
Apr. 12	31.95	Aug. 15	32.60	Nov. 7	33.01	Dec. 19	33.36
June 25	31.77	Sept.13	32.83				

43-15-26. C. F. Vissman & Co. At 117 Bickel Ave., in southwest corner of pipe shop, 11-1/2 feet northwest of pump well. Abandoned drilled industrial well, diameter 8 inches, depth 90 feet. Measuring point, top of casing, at land-surface datum and 450.3 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Mar. 27	49.20	Aug. 15	49.63	Oct. 10	49.07	Nov. 20	50.21
June 25	48.27	Sept.13	49.27	Nov. 7	50.28	Dec. 19	50.54
July 12	48.99						

43-16-1 (*1017, p. 212; 1024, p. 117). City of Louisville. 150 feet east of Municipal Boat Harbor. Section of pipe replaced Sept. 12, 1946; measuring point raised 0.4 foot. New measuring point, top of casing, 2.7 feet above land-surface datum and 428.68 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Jan. 3	9.77	Jan. 17	7.63	Feb. 14	8.31	Oct. 28	8.68
11	7.50	18	7.94	Mar. 13	8.25	Nov. 5	8.65
12	5.62	19	7.95	Sept.12	8.66	7	8.92
14	4.10	21	8.20	13	8.74	20	8.67
15	5.96	23	8.38	Oct. 10	8.69	Dec. 18	8.77
16	7.28						

43-16-7. Louisville Water Co. well WC-2. 50 feet from edge of Ohio River, 1,200 feet northeast of mouth of Beargrass Creek. Drilled observation well, diameter 4 inches, depth 90.6 feet. Measuring point, top of plug, 4.07 feet above land-surface datum and 429.17 feet above mean sea level. Automatic water-stage recorder maintained on well from May 9 to Oct. 1.

Daily noon water-level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	...	....	6.44	6.40	6.98	7.37	7.11	....	....
2	...	....	6.22	6.43	7.03	7.26	....	....	....
3	...	....	6.21	6.61	7.01	7.38	....	....	....
4	...	....	5.95	6.67	7.03	7.56	....	....	....
5	...	....	5.74	6.74	7.14	7.50	....	a7.02	....
6	...	....	5.37	6.62	7.19	7.19	....	....	....
7	...	....	5.65	6.75	7.06	7.00	....	a7.27	....
8	...	....	5.56	6.79	7.13	6.95	....	....	....
9	a6.0	6.61	6.05	6.73	7.07	6.99	....	....	....
10	...	6.70	5.94	6.49	7.02	7.12	a7.13	....	....
11	...	6.75	6.12	6.49	7.15	6.85	....	....	....
12	...	6.57	5.95	6.67	6.89	7.00	....	....	....
13	...	6.55	6.60	6.73	7.15	7.04	....	....	....
14	...	6.72	6.47	6.64	7.09	7.03	....	....	....
15	...	6.73	6.58	6.69	7.18	6.99	....	....	....
16	...	6.72	....	6.81	7.22	6.86	....	....	....
17	...	6.77	6.69	6.76	7.06	7.02	....	....	....
18	...	6.64	6.39	6.85	6.89	7.14	....	....	....
19	...	6.56	6.40	6.90	6.76	7.17	....	....	a7.21
20	...	6.46	6.62	6.77	6.81	7.21	....	a7.11	....
21	...	6.25	6.44	6.57	7.06	7.10	....	....	....
22	...	6.19	6.55	6.71	6.91	7.17	....	....	....
23	...	6.23	6.54	6.91	6.94	7.04	....	....	....
24	...	6.34	6.57	6.79	7.11	a7.14	....	....	....
25	...	6.10	6.50	6.80	7.08	7.19	....	....	....
26	...	6.30	6.54	6.75	7.07	7.08	....	....	....
27	...	6.23	6.42	6.61	7.16	7.08	....	....	....
28	...	6.42	6.41	6.80	7.20	7.03	a7.01	....	....
29	...	6.51	6.79	6.87	7.20	7.01	....	....	....
30	...	6.70	6.60	6.97	7.30	7.04	....	....	....
31		6.42		6.96	7.33		....		....

a Tape measurement at another hour.

43-16-8. Louisville Water Co. well WC-1. 115 feet north of Upper River Road, and 1,100 feet northeast of Beargrass Creek bridge. Drilled observation well, diameter 4 inches, depth 105.3 feet. Measuring point, top of plug, 1.25 feet above land-surface datum and 440.08 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 14	22.15	Aug. 15	22.50	Oct. 28	22.85	Nov. 20	22.91
June 21	21.73	Sept.12	22.52	Nov. 5	22.78	Dec. 19	22.79
July 12	22.14	Oct. 10	22.79	7	22.88		

44-14-1 (*1017, p. 213; 1024, p. 117). Southeastern Greyhound Lines. Formerly owned by Duffy Ice Co. 6 feet north of east-west alley between Caldwell and Kentucky Sts., 60 feet west of north-south alley between Preston and Floyd Sts. Pipe cut off Sept. 10, 1946; measuring point lowered 3.37 feet. New measuring point, top of metal plate, 1.67 feet below land-surface datum and 455.29 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Feb. 12	63.90	May 14	63.96	Aug. 13	65.61	Nov. 19	67.77
Mar. 15	63.90	June 18	64.10	Sept.10	66.52	Dec. 18	67.18
Apr. 6	64.00	July 10	64.40	Oct. 5	67.16		

44-15-6 (*1024, p. 118). Ohio River Sand Co. At 129 River Road. Recorder house removed, measuring point lowered 0.37 foot on Mar. 13, 1946. New measuring point, top of plug, 0.7 foot above land-surface datum and 440.83 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 13	34.33	June 25	34.08	Sept.10	35.58	Nov. 19	36.60
Apr. 6	34.05	July 12	34.47	Oct. 8	35.89	Dec. 18	36.06
May 14	34.19	Aug. 14	35.26				

44-15-25 (*1017, p. 213; 1024, p. 118). New York Central System. Directly under railroad bridge over Ohio River.

Water level, in feet below land-surface datum, 1946

Jan. 3	15.08	Jan. 16	13.13	Feb. 14	14.16	Aug. 14	14.67
11	13.14	17	13.37	Mar. 13	14.15	Sept.10	14.58
12	11.95	18	13.70	Apr. 11	14.00	Oct. 8	14.66
13	10.93	19	13.73	May 14	14.25	Nov. 19	14.84
14	10.82	21	13.90	June 14	13.98	Dec. 18	15.31
15	12.07	23	14.00	July 11	13.63		

45-14-1 (*1017, p. 213; 1024, p. 118). City of Louisville well A-2. In Lincoln Park, on South 4th St. at Guthrie St.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	68.18	67.51	.....	a67.65	68.23	70.15	a74.65	77.13	77.32	77.48	.....	72.08
2	68.17	67.50	.....	67.70	68.35	70.19	74.69	77.26	77.12	77.20	.....	72.05
3	68.14	67.49	.....	67.86	68.46	70.06	74.81	77.37	77.03	a77.03	a74.49	72.01
4	68.12	67.46	67.06	68.06	68.49	69.99	76.67	77.10	77.10	76.77	.....	71.97
5	68.04	67.43	67.08	68.11	68.38	70.02	74.84	77.28	77.15	76.74	.....	71.89
6	68.04	67.40	67.08	68.03	68.37	70.16	.....	77.40	77.37	76.73	.....	71.84
7	68.04	67.39	67.14	68.06	68.48	70.34	.....	77.50	77.68	76.66	.....	71.79
8	68.04	67.37	67.08	68.03	68.45	70.65	a74.95	77.62	77.52	76.71	.....	71.75
9	68.00	67.35	67.14	68.09	68.35	70.79	75.04	77.68	a77.62	76.73	.....	71.66
10	68.00	67.32	67.10	67.97	68.38	70.99	75.19	77.76	77.68	76.73	.....	71.66
11	e67.98	a67.31	67.08	67.85	68.42	71.23	75.33	77.55	77.79	76.73	a73.67	71.62
12	e67.96	67.29	67.04	67.79	68.37	71.59	75.48	77.57	77.84	76.64	.....	71.54
13	e67.94	67.25	67.05	67.74	68.36	71.87	75.60	77.62	77.86	76.41	.....	71.50
14	67.87	67.28	67.04	67.68	68.37	72.12	75.51	77.61	77.86	76.07	.....	71.45
15	67.85	67.28	67.09	67.67	68.66	72.30	75.63	77.59	77.76	75.97	.....	71.38
16	67.83	67.27	67.11	67.62	68.89	72.33	.....	77.66	a77.74	75.76	.....	71.31
17	67.82	67.23	67.15	67.59	69.04	72.45	.....	77.79	77.78	75.62	.....	71.31
18	67.78	a67.20	67.12	67.65	.....	72.70	.....	77.68	77.91	75.51	a72.98	71.28
19	67.75	67.13	67.11	67.71	.....	73.04	.....	77.71	77.96	75.36	72.93	71.23
20	67.73	67.12	67.08	67.86	69.05	73.22	.....	77.77	78.01	75.31	72.85	71.15
21	67.71	67.11	67.06	67.96	69.09	73.35	.....	77.83	78.03	74.98	72.77	71.14
22	67.70	67.10	67.05	68.09	69.10	73.50	a76.41	77.84	77.97	74.87	72.73	71.11
23	67.68	67.09	67.09	68.33	69.13	73.44	76.42	77.92	77.90	74.81	72.63	71.06
24	67.66	67.07	67.11	68.48	69.35	73.58	76.54	77.87	77.87	74.75	72.51	71.00
25	67.60	a67.05	67.06	68.46	69.64	73.80	76.64	77.75	77.88	74.71	72.40	71.00
26	67.62	67.05	67.04	68.40	69.69	74.02	76.72	77.66	78.01	74.59	72.39	70.96
27	67.63	67.05	67.18	e68.2	69.69	.....	76.77	77.68	78.01	74.50	72.36	70.91
28	a67.59	e67.06	67.22	e68.1	69.69	.....	76.72	77.59	78.21	74.36	72.29	70.89
29	67.57		67.36	a68.18	69.66	.....	76.82	77.64	77.98	74.33	72.21	70.82
30	67.52		.....	68.14	69.68	.....	76.89	77.60	77.57	74.38	72.13	70.81
31	67.52		.....		69.85		77.00	77.46		.....		70.79

a Tape measurement at another hour.
e Estimated.

45-14-2 (*1017, p. 217; 1024, p. 119). City of Louisville well A-1. About 40 feet east of South 4th St. on northeast corner of intersection of South 4th and York Sts.

45-14-2--Continued.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 12	62.10	May 6	62.32	July 1	65.25	Aug. 26	67.79
Mar. 15	61.83	15	62.39	11	65.97	Sept.12	68.04
Apr. 1	61.75	27	62.73	23	66.59	Oct. 8	67.89
6	61.89	June 10	63.34	Aug. 5	67.19	Nov. 19	66.63
22	61.94	18	64.10	13	67.46	Dec. 17	65.60

45-14-3 (*1017, p. 218; 1024, p. 119). Thompson's Restaurant. At 668 South 4th St.

Water level, in feet below land-surface datum, 1946

Jan. 4	65.01	Apr. 6	64.34	July 11	72.35	Oct. 8	72.84
Feb. 13	64.19	May 15	65.74	Aug. 13	73.86	Nov. 19	69.28
Mar. 15	63.95	June 18	69.81	Sept.10	74.14	Dec. 12	68.12

45-14-4 (*1017, p. 219; 1024, p. 119). Blue Boar Cafeteria. At 644 South 4th St.

Water level, in feet below land-surface datum, 1946

Feb. 13	65.55	May 15	d66.7	Aug. 13	d86.7	Nov. 19	d66.7
Mar. 15	65.47	June 18	d66.7	Sept.10	d66.7	Dec. 12	d66.7
Apr. 6	65.74	July 11	d66.7	Oct. 8	d66.7		

d Dry at this depth.

45-14-58 (*1024, p. 120). Kentucky Dairies. At 981 South 3d St.

Water level, in feet below land-surface datum, 1946

Feb. 12	62.72	May 14	62.52	Aug. 13	64.49	Nov. 19	65.53
Mar. 14	62.54	June 18	62.92	Sept. 9	65.11	Dec. 12	65.27
Apr. 6	62.46	July 10	63.50	Oct. 8	65.49		

45-15-2 (*1017, p. 222; 1024, p. 120). City of Louisville well B-2. In sidewalk at southwest corner of South 9th and Congress Sts.

Water level, in feet below land-surface datum, 1946

Feb. 12	60.41	May 15	59.95	Aug. 13	62.80	Nov. 19	63.84
Mar. 14	60.04	June 14	60.32	Sept.10	63.58	Dec. 17	63.39
Apr. 5	59.90	July 11	61.36	Oct. 8	64.09		

45-15-3 (*1017, p. 224; 1024, p. 120). City of Louisville well B-3. In sidewalk at southwest corner of South 8th and Cedar Sts.

Water level, in feet below land-surface datum, 1946

Feb. 12	67.18	May 15	66.89	Aug. 13	70.79	Nov. 19	71.15
Mar. 14	66.79	June 14	67.52	Sept.10	71.54	Dec. 17	70.39
Apr. 5	66.76	July 11	69.13	Oct. 8	71.89		

45-15-4 (*1017, p. 226; 1024, p. 120). City of Louisville well A-3. In southeast corner of Jefferson County Courthouse yard.

Water level, in feet below land-surface datum, 1946

Jan. 3	67.55	Mar. 13	66.96	June 10	68.60	Aug. 14	73.70
13	67.42	Apr. 1	67.00	14	69.24	26	73.91
14	67.35	6	66.91	July 1	70.90	Sept.10	74.12
15	67.30	22	66.81	11	71.68	Oct. 8	73.83
16	67.29	May 6	67.06	23	72.50	Nov. 19	71.70
17	67.26	15	67.14	Aug. 5	73.32	Dec. 17	70.56
Feb. 13	66.72	27	67.85				

46-11-2 (*1024, p. 120). Rubber Reserve Co. well RR-25. Northeast corner of intersection of Taylor Boulevard and Hathaway St.

Water level, in feet below land-surface datum, 1946							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	49.47	Apr. 4	49.90	July 10	49.54	Oct. 2	49.26
Feb. 12	49.72	May 8	49.80	Aug. 10	49.41	Nov. 14	49.16
Mar. 5	49.79	June 11	49.67	Sept. 3	49.36	Dec. 6	49.17

46-13-1 (*1017, p. 230; 1024, p. 120). Merchant's Ice & Cold Storage Co. At corner of South 7th and Magnolia Sts.

Water level, in feet below land-surface datum, 1946							
Jan. 3	75.65	July 10	77.96	Sept. 9	78.68	Dec. 10	76.11
June 25	77.61	Aug. 15	78.49	Nov. 19	76.24		

46-13-8 (*1017, p. 230; 1024, p. 121). Brown & Williamson Tobacco Corporation well 4. At 1600 West Hill Street.

Water level, in feet below land-surface datum, 1946							
May 7	80.07	July 10	79.70	Sept.12	79.83	Nov. 19	80.01
June 25	79.81	Aug. 15	79.79	Oct. 8	79.88	Dec. 10	80.06

46-13-10 (*1017, p. 231; 1024, p. 121). Joseph E. Seagram & Sons Co. test well 4. At intersection of Bernheim Lane and 7th Street Road.

Water level, in feet below land-surface datum, 1946							
Jan. 2	62.47	Apr. 2	61.33	July 10	59.98	Oct. 3	59.32
Feb. 6	62.91	May 7	60.58	Aug. 9	59.69	Nov. 15	59.11
8	62.85	June 12	60.24	Sept. 5	59.48	Dec. 10	59.01
Mar. 5	62.07						

46-14-1 (*1017, p. 232; 1024, p. 121). American Tobacco Co. At intersection of 17th and Broadway Sts.

Water level, in feet below land-surface datum, 1946							
Feb. 13	68.32	May 15	68.24	Aug. 14	68.56	Nov. 19	69.38
Mar. 12	68.32	June 14	68.20	Sept.10	68.86	Dec. 11	69.64
Apr. 5	68.24	July 11	68.50	Oct. 7	69.09		

46-14-9 (*1017, p. 233; 1024, p. 121). Kentucky Public Elevator Co. At intersection of Gallagher and South 15th Sts. Upper part of flange removed Oct. 7, 1946; measuring point lowered 0.10 foot. New measuring point, top of flange, 1.4 feet above land-surface datum and 457.26 feet above mean sea level.

Water level, in feet below land-surface datum, 1946							
Feb. 13	69.33	May 15	69.00	Aug. 14	69.24	Nov. 19	69.93
Mar. 12	69.48	June 14	68.93	Sept.10	69.38	Dec. 11	70.01
Apr. 5	69.02	July 11	69.04	Oct. 7	69.56		

47-11-1 (*1017, p. 233; 1024, p. 121). Enterprise Coal & Ice Co. At 1847 Berry Boulevard.

Water level, in feet below land-surface datum, 1946							
Jan. 2	51.87	Apr. 4	52.28	July 10	51.53	Oct. 2	50.89
Feb. 12	51.99	May 8	52.04	Aug. 10	51.34	Nov. 14	50.87
Mar. 5	52.16	June 11	51.76	Sept. 3	51.16	Dec. 6	50.83

47-11-4 (*1024, p. 121). Rubber Reserve Co. well RR-42. West side of Manslick Road, 0.1 mile south of Berry Boulevard.

Water level, in feet below land-surface datum, 1946							
Jan. 2	45.76	Apr. 4	46.04	July 10	45.42	Oct. 2	45.10
Feb. 12	45.98	May 8	45.84	Aug. 10	45.30	Nov. 14	45.13
Mar. 5	46.00	June 11	45.42	Sept. 3	45.19	Dec. 5	45.16

47-12-1 (*1017, p. 233; 1024, p. 121). City of Louisville well C-5. 1.1 miles south of intersection of Dixie Highway and Bernheim Lane.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	64.26	Apr. 3	64.97	July 10	61.76	Oct. 3	60.34
Feb. 6	64.74	May 8	63.93	Aug. 9	61.11	Nov. 18	60.48
7	64.75	June 11	62.75	Sept. 5	60.46	Dec. 6	60.59
Mar. 5	64.94						

47-12-2 (*1017, p. 235; 1024, p. 122). City of Louisville well C-6. About 440 feet west of 7th Street Road, at end of secondary road which intersects 7th Street Road at George's Tavern, 0.5 mile south of Arcade Ave.

Water level, in feet below land-surface datum, 1946

Jan. 2	53.49	Apr. 4	54.09	July 10	51.43	Oct. 3	50.40
Feb. 6	54.22	May 8	53.17	Aug. 10	50.99	Nov. 18	50.22
8	54.25	June 11	52.26	Sept. 5	50.47	Dec. 6	50.28
Mar. 5	54.16						

47-12-3 (*1017, p. 237; 1024, p. 122). City of Louisville well C-7. About 8 feet west of concrete cover over sewer and about 730 feet east of intersection of 7th Street Road with secondary road at George's Tavern, 0.5 mile south of Arcade Ave.

Water level, in feet below land-surface datum, 1946

Jan. 2	47.34	Apr. 4	47.64	July 10	46.26	Oct. 2	45.23
Feb. 12	47.77	May 8	47.22	Aug. 10	45.89	Nov. 15	45.00
Mar. 5	47.83	June 11	46.67	Sept. 3	45.56	Dec. 6	44.89

47-12-4 (*1017, p. 239; 1024, p. 122). Joseph E. Seagram & Sons Co. test well 2. In Seagram parking lot situated in southwestern corner of intersection of Wathens Lane and 7th Street Road. Recorder house reset Nov. 20, 1946. Measuring point raised 0.01 foot, new measuring point, top of recorder floor, 0.58 foot above land-surface datum and 459.22 feet above mean sea level.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	78.62	80.81	61.46	62.04	69.28	64.85	65.61	65.43	65.08	66.86	.....	.....
2	79.24	80.99	61.23	61.78	69.83	65.32	65.83	65.08	64.33	65.46	.....	65.2
3	79.49	77.67	60.88	61.59	70.40	65.43	65.88	65.23	64.28	65.15	.....	65.4
4	80.22	a77.78	60.77	61.44	68.54	67.43	65.21	63.98	64.33	66.76	.....	64.6
5	80.67	a79.65	60.66	61.27	67.96	67.08	64.73	64.48	65.48	66.82	.....	65.8
6	77.17	a79.18	60.50	62.55	68.18	68.18	64.59	64.23	66.62	64.94	.....	66.3
7	78.40	73.26	60.33	62.82	69.80	68.33	64.93	64.17	65.08	65.71	.....	66.6
8	79.82	69.95	59.78	62.94	69.79	66.88	66.18	63.87	64.44	a66.19	.....	64.47
9	80.10	68.20	59.68	63.07	69.75	65.65	65.97	63.16	65.83	.....	.....	65.2
10	79.33	66.74	59.37	63.11	70.48	66.83	65.15	64.31	66.44	.....	.....	65.2
11	80.46	65.93	59.21	65.52	70.75	67.68	65.23	64.40	66.03	.....	.....	65.0
12	81.18	65.32	63.60	66.49	68.10	67.93	66.91	64.75	67.25	.....	.....	64.6
13	78.74	65.57	65.08	67.28	69.83	68.31	65.23	65.08	68.08	.....	.....	.....
14	79.81	65.16	66.42	65.79	70.55	68.85	64.55	64.44	66.39	.....	.....	.....
15	80.78	65.02	67.44	67.05	70.73	66.91	65.23	64.34	65.62	.....	a66.03	.....
16	78.93	64.70	67.81	67.48	70.18	66.18	65.31	65.87	66.78	.....	.....	a66.72
17	79.69	64.23	67.44	67.43	69.43	67.41	64.93	64.98	66.73	.....	.....	67.0
18	81.01	63.98	68.13	68.48	68.03	67.88	64.45	64.95	65.91	.....	.....	66.6
19	81.48	63.63	68.85	68.86	67.23	68.71	65.90	64.33	67.87	.....	.....	66.5
20	77.62	63.43	68.71	68.72	68.59	69.13	65.01	67.23	68.10	.....	a65.82	66.5
21	78.82	63.20	68.67	66.32	68.98	69.18	65.17	65.98	66.20	.....	65.7	66.8
22	80.32	62.97	69.15	67.08	67.93	69.28	65.55	65.73	65.55	.....	67.4	64.68
23	80.02	63.36	69.51	68.60	67.01	67.08	66.03	67.63	66.95	.....	67.22	65.5
24	80.27	62.38	67.73	68.68	66.81	67.83	64.15	66.33	67.37	.....	65.29	65.39
25	79.49	62.13	69.00	68.66	66.73	68.26	66.65	64.81	66.56	.....	64.3	65.7
26	78.27	62.10	65.43	68.96	66.23	67.78	67.15	66.53	66.16	.....	64.2	65.8
27	77.27	61.96	64.33	69.73	66.33	67.18	65.53	66.98	66.78	.....	64.2	66.2
28	77.36	61.78	63.62	67.56	66.08	67.83	64.81	65.83	67.15	.....	63.8	66.0
29	79.38		63.04	67.85	65.99	67.00	66.03	65.90	65.06	.....	64.5	64.58
30	79.59		62.72	69.26	65.53	65.81	66.26	65.63	65.98	.....	.....	64.72
31	80.05		62.31		65.13		65.96	65.02		.....		67.04

a Tape measurement at another hour.

47-12-6 (*1017, p. 240; 1024, p. 123). Joseph E. Seagram & Sons Co. In brick pumphouse near center of Seagram's parking lot, at intersection of 7th Street Road and Wathens Lane.

	Water level, in feet below land-surface datum, 1946							
Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	85.00	Apr. 2	59.4	Aug. 9	k66.30	Oct. 3	66.35
Feb. 6	g 85.06	May 7	74.21		q64.54	Nov. 15	68.93
	j 78.86	June 12	71.18	Sept. 6	69.43	Dec. 10	66.98
Mar. 25	72.35	July 10	65.52				

g 8:10 a.m.
j 3:40 p.m.
k 8:45 a.m.
q 8:55 a.m.

47-12-14 (*1017, p. 242; 1024, p. 123). National Distillers Products Corporation test well 2. 20 feet north of south fence property line and about 275 feet west of east property line of Old Grand Dad Distillery, between Bernheim and Wathens Lanes.

	Water level, in feet below land-surface datum, 1946							
Jan. 2	67.20	Apr. 2	60.98	July 10	60.63	Oct. 3	59.98
Feb. 6	68.09	May 7	61.70	Aug. 9	59.61	Nov. 15	59.40
Mar. 5	61.84	June 12	61.08	Sept. 5	59.48	Dec. 13	59.27

47-12-15 (*1017, p. 243; 1024, p. 123). National Distillers Products Corporation test well 4. About 6 feet north of south property line fence, about 10 feet east of west property line fence, on property of Old Grand Dad Distillery, between Bernheim and Wathens Lanes.

	Water level, in feet below land-surface datum, 1946							
Jan. 2	65.79	Apr. 2	62.19	July 10	60.88	Oct. 3	59.86
Feb. 6	66.74	May 7	61.35	Aug. 9	60.19	Nov. 15	59.54
Mar. 5	63.84	June 12	61.20	Sept. 5	59.92	Dec. 13	59.22

47-12-16 (*1017, p. 244; 1024, p. 123). National Distillers Products Corporation test well 1. About 85 feet east and 20 feet north of southeast corner of Warehouse C, on property of Old Grand Dad Distillery, between Bernheim and Wathens Lanes.

	Water level, in feet below land-surface datum, 1946							
Jan. 2	65.38	Apr. 2	61.67	July 10	60.35	Oct. 3	59.48
Feb. 6	66.33	May 7	61.07	Aug. 9	59.64	Nov. 15	59.00
8	66.36	June 12	60.67	Sept. 5	59.33	Dec. 13	58.94
Mar. 5	63.24						

47-12-20 (*1017, p. 245; 1024, p. 124). Brown-Forman Distillers Corporation test well 1. 6 feet southwest of south corner of northeast warehouse on private road, 0.3 mile southeast of its intersection with Dixie Highway, on property of Early Times Distillery (formerly Old Kentucky Distillery) at Shively.

	Water level, in feet below land-surface datum, 1946							
Jan. 2	55.96	Apr. 3	55.90	Aug. 9	52.66	Nov. 15	51.41
Feb. 6	56.74	May 8	54.85	Sept. 5	52.10	Dec. 6	52.12
8	56.77	June 11	53.65	Oct. 3	51.60	17	52.62
Mar. 5	56.83	July 10	53.00				

47-13-8 (*1017, p. 246; 1024, p. 124). National Distillers Products Corporation test well 3. About 42 feet north of Warehouse D and about 75 feet south of Warehouse E, on property of Old Grand Dad Distillery, between Bernheim and Wathens Lanes.

	Water level, in feet below land-surface datum, 1946							
Jan. 2	64.94	Apr. 2	62.33	July 10	60.27	Oct. 3	59.33
Feb. 6	65.68	May 7	60.96	Aug. 9	59.80	Nov. 15	59.05
8	65.60	June 12	60.57	Sept. 5	59.45	Dec. 13	59.05
Mar. 5	64.29						

47-13-11 (*1017, p. 247; 1024, p. 124). Joseph E. Seagram & Sons Co. test well 3. On Seagram property, at intersection of Wathens Lane and 7th Street Road, 0.3 mile northeast of Arcade Ave.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	67.60	Apr. 2	67.88	July 10	66.80	Oct. 3	65.91
Feb. 6	67.98	May 7	67.49	Aug. 9	66.47	Nov. 15	65.52
Mar. 5	68.05	June 12	67.09	Sept. 6	66.18	Dec. 10	65.32

47-14-10 (*1017, p. 247; 1024, p. 124). National Distillers Products Corporation. Near Warehouse B, on Old Sunnybrook property, on corner of South 28th St. and West Broadway.

Water level, in feet below land-surface datum, 1946

Feb. 13	66.66	May 15	66.64	Aug. 14	67.84	Nov. 19	68.13
Mar. 12	66.37	June 14	66.99	Sept.10	67.70	Dec. 13	68.42
Apr. 5	66.63	July 11	67.28	Oct. 7	67.85		

47-14-11 (*1017, p. 248; 1024, p. 124). Brown-Forman Distillers Corporation. Formerly owned by Independent Ice & Coal Co. At 1901 West Howard St.

Water level, in feet below land-surface datum, 1946

Feb. 13	68.33	June 14	68.73	Sept.10	d68.5	Nov. 19	d68.5
Mar. 12	68.21	Aug. 14	d69.0	Oct. 8	d68.5	Dec. 17	d68.0
Apr. 5	68.37						

d Dry at this depth; debris in well.

47-15-1 (*1017, p. 248; 1024, p. 125). City of Louisville well M-3. On southwest corner at intersection of South 28th and Jefferson Sts.

Water level, in feet below land-surface datum, 1946

Feb. 13	40.23	May 15	40.32	Aug. 14	40.22	Nov. 19	40.40
Mar. 12	40.30	June 14	40.18	Sept.10	40.26	Dec. 13	40.45
Apr. 5	40.32	July 11	40.19	Oct. 7	40.31		

48-11-1 (*1017, p. 249; 1024, p. 125). Charles Matheis. 20 feet west of back door of residence on Matheis Lane, 0.5 mile west of Dixie Highway.

Water level, in feet below land-surface datum, 1946

Jan. 2	51.97	Apr. 3	52.18	July 10	51.78	Oct. 2	51.83
Feb. 7	52.20	May 10	51.95	Aug. 9	51.78	Nov. 14	51.91
Mar. 5	52.26	June 11	51.84	Sept. 5	51.85	Dec. 5	51.98

48-12-1 (*1017, p. 250; 1024, p. 125). City of Louisville well C-2. 0.25 mile north of Glencoe Distillery, east of Cane Run Road.

Water level, in feet below land-surface datum, 1946

Jan. 2	60.31	Apr. 3	60.30	July 9	60.08	Oct. 3	60.10
Feb. 8	60.32	May 10	60.08	Aug. 9	60.05	Nov. 18	60.36
Mar. 7	60.26	June 7	59.99	Sept. 5	60.22	Dec. 6	60.53

48-12-2 (*1017, p. 251; 1024, p. 125). City of Louisville well C-3. 0.2 mile north of Stitzel-Weller Distillery, 0.1 mile east of Tucker Lane.

Water level, in feet below land-surface datum, 1946

Jan. 2	71.45	Apr. 3	71.62	July 10	71.41	Oct. 3	71.30
Feb. 7	71.52	May 10	71.23	Aug. 9	71.16	Nov. 18	71.70
Mar. 5	71.36	June 7	71.14	Sept. 5	71.53	Dec 6	71.95

48-12-15(*1024, p. 125). Rubber Reserve Co. well RR-41. On Farnsley Road right-of-way, northside, 0.6 mile west of Dixie Highway.

Water level, in feet below land-surface datum, 1946

Jan. 2	49.92	Apr. 3	50.06	July 10	49.74	Oct. 7	49.88
Feb. 7	50.12	May 10	49.86	Aug. 9	49.76	Nov. 14	49.97
Mar. 5	50.14	June 11	49.78	Sept. 5	49.85	Dec. 5	50.03

48-14-1. City of Louisville well M-4. At northeast corner of intersection of 38th Street and Greenwood Avenue. Drilled observation well, diameter 4 inches, depth 93 feet. Measuring point, top of casing, 1.8 feet above land-surface datum, and 443.42 feet above mean sea level. Measurements from Sept. 16, 1939, to Dec. 22, 1943, made by city of Louisville. (Well deepened from 40 feet to 93 feet in fall of 1943.)

Water level, in feet below land-surface datum, 1939-44,1946

Date	Water level	Date	Water level	Date	Water level
Sept.16, 1939	28.31	July 19, 1940	31.53	June 13, 1941	36.04
23	28.44	25	31.59	27	36.60
30	28.57	Aug. 1	31.68	July 11	36.72
Oct. 7	28.69	8	31.76	25	37.17
14	28.81	15	31.86	Aug. 8	37.46
21	28.90	22	31.71	22	37.67
28	29.10	29	31.90	Sept.19	37.50
Nov. 4	29.21	Sept. 5	31.88	Oct. 3	38.45
10	29.26	12	32.00	17	38.62
18	29.43	19	32.45	31	38.70
25	29.56	26	32.22	Nov. 14	38.46
Dec. 2	29.66	Oct. 3	32.46	28	d37.24
9	29.79	10	32.62	Dec. 12	d37.24
16	29.59	17	32.89	26	38.74
23	29.61	24	32.87	Feb. 5, 1942	38.82
30	30.19	31	32.90	16	40.04
Jan. 6, 1940	30.28	Nov. 7	33.21	Mar. 2	39.66
13	30.50	14	33.14	16	39.93
20	30.38	20	33.33	Apr. 1	35.62
27	30.65	27	33.32	16	36.51
Feb. 3	30.78	Dec. 5	33.45	May 1	36.05
10	30.85	12	33.69	21	37.03
17	30.67	19	33.43	Aug. 5	d37.24
24	30.85	26	33.92	12	d37.24
Mar. 2	31.18	Jan. 2, 1941	33.74	20	d37.24
9	31.06	9	34.06	Sept.30	d36.34
16	31.23	16	34.44	Jan. 13, 1943	d37.06
23	31.11	23	34.35	June 2	d37.11
30	31.38	30	34.37	July 28	d36.86
Apr. 5	31.39	Feb. 6	34.61	Aug. 25	d36.81
12	31.40	13	34.82	Dec. 22	47.81
19	31.51	20	34.73	Jan. 6, 1944	48.29
26	31.13	27	34.84	29	48.44
May 3	30.97	Mar. 6	34.87	Feb. 24	48.89
10	31.23	13	35.01	May 15, 1946	53.64
17	31.19	20	35.13	June 14	53.69
24	31.16	27	35.11	July 11	53.83
31	31.16	Apr. 3	35.29	Aug. 14	54.02
June 7	31.17	10	35.04	Sept.10	54.22
14	31.21	17	35.49	Oct. 7	54.38
21	31.27	May 1	35.90	Nov. 19	54.70
28	31.31	15	35.83	Dec. 17	54.89
July 5	31.43	31	35.84		

d Dry at this depth.

48-15-19. Klarer Provision Co. At 210 Amy Avenue, in northwest corner of brine tank room. Unused drilled industrial well, diameter 6 inches, depth 53 feet. Measuring point, top of casing, at land-surface datum and 453.37 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 9	44.02	July 11	44.56	Sept.10	44.51	Nov. 19	45.06
May 15	44.23	Aug. 14	44.69	Oct. 7	44.87	Dec. 13	45.25
June 14	44.38						

49-10-1 (*1017, p. 254; 1024, p. 126). T. W. Blackwell. In basement of white house, southeast of intersection of Dixie Highway and Rockford Lane, south of Shively.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	37.40	Apr. 3	37.28	July 6	37.19	Nov. 14	38.10
Feb. 1	37.63	May 8	37.00	Aug. 7	37.41	Dec. 3	38.25
Mar. 6	37.46	June 7	37.06	Sept. 4	37.56		

49-11-1 (*1024, p. 126). Rubber Reserve Co. well RR-32. On property of Louis Risinger, Garrs Lane, 0.6 mile west of Dixie Highway.

Water level, in feet below land-surface datum, 1946

Jan. 2	42.31	Apr. 3	42.35	July 6	42.24	Oct. 2	42.66
Feb. 1	42.51	May 8	42.14	Aug. 7	42.40	Nov. 14	42.89
Mar. 6	42.50	June 7	42.13	Sept. 5	42.54	Dec. 3	42.98

49-12-2 (*1017, p. 254; 1024, p. 126). Henry Vogt. 0.25 mile west of Cane Run Road and 0.25 mile north of Kramers Lane.

Water level, in feet below land-surface datum, 1946

Jan. 2	53.64	Apr. 3	53.07	July 9	52.31	Oct. 2	52.36
Feb. 7	53.54	May 10	52.73	Aug. 9	52.23	Nov. 14	52.53
Mar. 9	53.46	June 7	52.55	Sept. 5	52.32	Dec. 5	52.57

49-12-3 (*1017, p. 254; 1024, p. 126). Mrs. Ridley. East of white house, 0.35 mile south of intersection of Cane Run Road and Ridley's Court. Measuring point, top of casing, 2.5 feet above land-surface datum and 453.77 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Jan. 2	49.23	Apr. 3	48.17	July 9	47.67	Oct. 2	46.95
Feb. 7	48.84	May 10	48.05	Aug. 9	47.32	Nov. 14	46.67
Mar. 9	48.43	June 7	47.87	Sept. 5	47.03	Dec. 5	46.23

49-12-4 (*1024, p. 126). Rubber Reserve Co. well RR-40. Southeast corner of intersection of Cane Run Road and Farnsley Road.

Water level, in feet below land-surface datum, 1946

Jan. 10	53.17	Jan. 19	53.18	Apr. 3	52.89	Sept. 5	52.19
11	53.15	21	53.30	May 10	52.67	Oct. 2	52.23
12	53.23	23	53.11	June 7	52.50	Nov. 14	52.40
16	53.17	Feb. 7	53.29	July 9	52.30	Dec. 5	52.43
18	53.11	Mar. 9	53.10	Aug. 9	52.19		

49-13-5 (*1024, p. 127). Synthetic Rubber Co. test well 10. On Illinois Central Railroad property between Algonquin Parkway and Bells Lane, west of main switch to Bond Bros. Tie Plant.

Water level, in feet below land-surface datum, 1946

Jan. 30	p84.99	May 10	80.89	Aug. 8	81.02	Nov. 15	79.59
Mar. 7	p85.57	June 13	80.45	Sept. 6	80.60	Dec. 16	79.06
Apr. 5	81.08	July 9	80.44	Oct. 4	80.17		

p Pumping.

49-13-22 (*1017, p. 255; 1024, p. 127). Bond Bros. On tie plant property which is 0.5 mile west of intersection of Bells Lane and Cane Run Road.

Water level, in feet below land-surface datum, 1946

Jan. 29	70.02	May 10	70.40	Aug. 8	70.61	Nov. 15	69.66
Mar. 7	69.27	June 12	69.94	Sept. 6	69.72	Dec. 9	69.11
Apr. 5	70.36	July 9	69.72	Oct. 4	69.23		

49-13-24 (*1017, p. 255; 1024, p. 127). B. F. Goodrich Co. well 17. On koroseal plant property, in field north of plant, about 15 feet south of Bells Lane and about 300 feet east of west property line.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	76.78	May 10	77.06	Aug. 8	77.17	Nov. 18	75.78
Mar. 7	76.91	June 13	76.09	Sept. 6	76.95	Dec. 11	75.66
Apr. 5	76.26	July 9	76.47	Oct. 4	76.36		

49-13-26 (*1017, p. 255; 1024 p. 127). B. F. Goodrich Co. test well 14. On north side of Pump House N. 1A on property of koroseal plant. Measuring point, top of casing, 1.2 feet above land-surface datum and 452.67 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Jan. 30	73.78	May 10	73.69	Aug. 8	74.38	Nov. 18	73.08
Mar. 7	73.53	June 13	73.22	Sept. 6	74.77	Dec. 11	72.89
Apr. 5	74.06	July 9	73.68	Oct. 4	73.49		

49-13-27 (*1017, p. 256; 1024, p. 127). B. F. Goodrich Co. test well 15. 20 feet west of east property line, on property of koroseal plant, south of Bells Lane.

Water level, in feet below land-surface datum, 1946

Jan. 30	70.47	May 10	70.42	Aug. 8	71.07	Nov. 18	69.82
Mar. 7	70.20	June 13	69.93	Sept. 6	71.29	Dec. 16	69.34
Apr. 5	70.74	July 9	70.36	Oct. 4	70.19		

49-13-28 (*1017, p. 256; 1024, p. 127). Fish & Wildlife Service, U. S. Dept. of Interior. In stucco well house, on fish hatchery property, which is about 0.2 mile west of intersection of Gibson Lane and Western Parkway.

Water level, in feet below land-surface datum, 1946

Jan. 30	75.55	May 15	78.67	Aug. 14	78.21	Nov. 19	79.33
Mar. 12	76.56	June 13	77.44	Sept.10	78.63	Dec. 17	78.97
Apr. 5	77.75	July 11	77.59	Oct. 7	79.56		

49-13-33 (*1017, p. 256; 1024, p. 128). National Carbide Corporation pump well 2. In pump house, about 700 feet south of Bells Lane. Measurements discontinued July 9, well destroyed.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 30	65.70	Apr. 5	65.75	June 13	63.84
Mar. 7	65.65	May 10	65.65	July 9	65.07

49-13-34 (*1017, p. 257; 1024, p. 128). B. F. Goodrich Co. pump well 4. In pump house, on southwest corner of property of koroseal plant.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	76.49	May 10	73.45	Aug. 8	77.10	Nov. 18	76.41
Mar. 7	75.15	June 13	74.99	Sept. 6	77.35	Dec. 16	76.64
Apr. 5	76.35	July 9	75.96	Oct. 4	76.37		

49-13-40 (*1024, p. 128). Rubber Reserve Co well RR-26. Southeast corner of intersection of 39th Street and Algonquin Parkway.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 12	68.03	Jan. 23	67.84	May 10	67.87	Sept. 6	67.87
15	68.00	29	67.73	June 13	67.74	Oct. 4	67.85
16	67.90	Mar. 7	67.77	July 9	67.75	Nov. 15	67.70
18	67.86	Apr. 5	67.91	Aug. 8	67.97	Dec. 9	67.68
19	67.91						

49-13-41 (*1024, p.128). Synthetic Rubber Co. test well 12. On Illinois Central Railroad property, south of Algonquin Parkway, west of main switch to Bond Bros. Tie Plant.

Water level, in feet below land-surface datum, 1946

Jan. 30	71.22	May 10	69.98	Aug. 8	69.90	Nov. 15	69.40
Mar. 7	71.74	June 13	69.56	Sept. 6	69.86	Dec. 16	69.42
Apr. 5	70.38	July 9	69.46	Oct. 4	69.79		

49-14-6 (*1017, p. 257; 1024, p. 129). Tube Turns. 25 feet east of poultry house, and 200 feet north of main gate of Kentucky State Fairgrounds.

Water level, in feet below land-surface datum, 1946

Jan. 30	62.70	May 15	62.80	Aug. 14	62.86	Nov. 19	63.90
Mar. 12	62.97	June 14	62.88	Oct. 7	63.41	Dec. 17	64.04
Apr. 5	62.98	July 11	62.78				

49-14-11 (*1017, p. 257; 1024, p. 129). Geological Survey, U. S. Dept. of Interior. At foot of Brewster Avenue, at Ohio River. Measurements discontinued July 11, well obstructed.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 30	19.71	Apr. 5	22.55	June 14	22.79
Mar. 12	22.49	May 15	23.34	July 11	23.37

49-14-12 (*1017, p. 257; 1024, p. 129). Louisville Refining Co. On property, 175 feet north of northeast corner of office building.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 30	73.53	May 15	85.20	Aug. 14	74.67	Nov. 18	92.50
Mar. 12	82.90	June 13	91.92	Sept.10	91.16	Dec. 17	92.22
Apr. 5	84.97	July 11	74.72	Oct. 7	95.77		

50-9-1 (*1017, p. 257; 1024, p. 129). William Genenwein. In shed northwest of brick house, 0.4 mile west of old bridge which is west of Upper Hunters Trace at a point 0.7 mile west of Dixie Highway.

Water level, in feet below land-surface datum, 1946

Feb. 1	45.35	May 8	45.12	Aug. 7	45.37	Nov. 14	45.86
Mar. 6	45.39	June 6	45.13	Sept. 4	45.50	Dec. 3	45.98
Apr. 3	45.28	July 6	45.22	Oct. 2	45.63		

50-9-4 (*1024, p. 129). Rubber Reserve Co. well RR-37. Southwest corner of intersection of Lower Hunters Trace and Upper Hunters Trace.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	34.20	Mar. 6	34.24	July 6	33.92	Oct. 2	34.32
19	34.22	Apr. 3	34.08	Aug. 7	34.07	Nov. 14	34.54
23	34.20	May 8	33.92	Sept. 4	34.20	Dec. 3	34.63
Feb. 1	34.25	June 6	33.88				

50-10-1 (*1017, p. 258; 1024, p. 130). Robert Lee. In a field 35 feet northwest of a point on August Avenue, about 100 feet southwest of wooden bridge.

Water level, in feet below land-surface datum, 1946

Feb. 1	25.20	May 8	25.04	Aug. 7	25.27	Nov. 14	25.74
Mar. 6	25.28	June 7	25.05	Sept. 5	25.40	Dec. 3	25.84
Apr. 3	25.12	July 6	25.13	Oct. 2	25.52		

50-10-2 (*1024, p. 130). Rubber Reserve Co. well RR-30. South side of Rockford Lane, 0.95 mile west of Dixie Highway.

Water level, in feet below land-surface datum, 1946

Jan. 23	28.03	Apr. 3	27.84	July 6	27.95	Oct. 2	28.40
Feb. 1	28.03	May 8	27.80	Aug. 7	28.12	Nov. 14	28.66
Mar. 6	28.03	June 7	27.84	Sept. 5	28.25	Dec. 3	28.77

50-11-2 (*1024, p. 130). Rubber Reserve Co. well RR-33. Southeast corner of intersection of Crums Lane and Cane Run Road.

Water level, in feet below land-surface datum, 1946

Jan. 16	40.32	Jan. 23	40.27	May 10	39.86	Sept. 5	39.59
18	40.25	Feb. 1	40.22	June 7	39.72	Oct. 2	39.71
19	40.34	Mar. 9	40.27	July 9	39.59	Nov. 14	39.93
21	40.47	Apr. 3	40.01	Aug. 9	39.52	Dec. 3	40.04

50-11-3 (*1024, p. 130). Rubber Reserve Co. well RR-39. North side of Schencks Lane, 0.5 mile west of Cane Run Road.

Water level, in feet below land-surface datum, 1946

Jan. 10	50.67	Jan. 19	50.64	Apr. 3	50.12	Sept. 5	49.85
12	50.70	21	50.73	May 10	49.90	Oct. 2	50.10
15	50.72	23	50.61	June 7	49.80	Nov. 14	50.57
16	50.69	Feb. 1	50.58	July 9	49.70	Dec. 3	50.75
18	50.60	Mar. 9	50.41	Aug. 9	49.60		

50-12-12 (*1017, p. 258; 1024, p. 130). Patrick Whelan. In basement of frame house on Kramers Lane, 0.2 mile west of its intersection with Cane Run Road.

Water level, in feet below land-surface datum, 1946

Feb. 7	51.70	May 10	50.85	Aug. 9	50.56	Nov. 14	50.94
Mar. 9	51.56	June 7	50.73	Sept. 2	50.61	Dec. 5	51.04
Apr. 3	51.20	July 10	50.61	Oct. 2	50.72		

50-12-16 (*1024, p. 130). Rubber Reserve Co. well RR-27. On south side of Kramers Lane, 245 feet east of Camp Ground Road.

Water level, in feet below land-surface datum, 1946

Jan. 10	57.70	Jan. 18	57.51	Mar. 9	56.60	Aug. 8	57.73
11	57.64	19	57.54	Apr. 3	57.40	Sept. 2	58.23
12	57.70	21	57.58	May 10	57.44	Oct. 2	58.70
13	57.69	23	57.43	June 7	57.53	Nov. 14	59.24
15	57.70	29	57.35	July 9	57.36	Dec. 5	59.02
16	57.59						

50-12-17 (*1024, p. 131). Rubber Reserve Co. well RR-34. On Z. C. Long's farm, east side of Camp Ground Road. 0.4 mile north of Kramers Lane.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	62.36	Jan. 18	62.24	Mar. 9	61.52	Aug. 8	60.56
11	62.27	19	62.30	Apr. 5	60.80	Sept. 6	60.73
12	62.47	21	62.38	May 10	60.08	Oct. 4	60.99
14	62.29	23	62.21	June 12	59.86	Nov. 15	61.36
15	62.46	28	62.11	July 9	60.45	Dec. 9	61.45
16	62.32						

50-12-18 (*1024, p. 131). Rubber Reserve Co. well RR-35. On Bond Bros. property north side of Camp Ground Road, 0.3 mile east of Ralph Avenue.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	70.10	Jan. 18	69.92	Mar. 7	69.40	Aug. 8	68.16
11	69.82	19	69.98	Apr. 5	69.00	Sept. 6	68.56
12	70.12	21	70.03	May 10	68.55	Oct. 3	68.67
14	69.96	23	69.91	June 12	68.22	Nov. 15	68.84
15	70.10	29	69.77	July 9	68.01	Dec. 9	68.95
16	69.98						

50-13-9. National Carbide Corporation pump well 10. On company property on Bell's Lane, in pump house, about 500 feet west of guard house. Unused drilled industrial well, diameter 12 inches, depth 109.4 feet. Measuring point, bottom of 1-1/2-inch pipe, south side of concrete pump base, 1.6 feet above land-surface datum and 451.89 feet above mean sea level. Automatic water-stage recorder maintained on well from Sept. 22 to Oct. 9, 1945.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Aug. 8	71.22	Oct. 4	72.40	Dec. 11	72.88
Sept. 6	71.92	Nov. 18	72.80		

50-13-56 (*1024, p. 131). Rubber Reserve Co. well RR-24. In E. I. du Pont de Nemours upper field, on south bank of Lower Paddy Run and about 200 feet east of Ohio River bank.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	38.89	Jan. 18	31.51	Mar. 9	34.24	Aug. 8	43.30
11	34.73	19	32.57	Apr. 5	34.49	Sept. 6	44.14
12	32.72	21	34.57	May 10	39.51	Oct. 3	44.51
15	29.52	23	36.78	June 12	33.46	Nov. 15	45.01
16	29.75	29	40.35	July 9	40.38	Dec. 9	44.88

50-14-4 (*1024, p. 132). Rubber Reserve Co. well RR-23. On Louisville Refining Co. property at 1300 S. Western Parkway. Recorder house removed Nov. 18, 1946. Measuring point lowered 0.23 foot. New measuring point, top of plug, 0.6 foot above land-surface datum and 454.43 feet above mean sea level.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts for period Jan. 1 to Aug. 6)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	73.31	73.09	72.98	72.70	73.20	73.52	73.74	74.25	.....	.....	.....	.....
2	73.30	73.14	73.10	72.67	73.19	73.54	73.78	74.25	.....	.....	.....	.....
3	73.30	73.15	73.06	72.68	73.20	73.52	73.81	74.25	.....	.....	.....	.....
4	73.30	73.14	73.10	72.72	73.20	73.53	73.83	74.25	.....	.....	.....	.....
5	73.20	73.11	73.12	72.74	73.26	73.50	73.85	74.26	.....	.....	.....	.....
6	73.30	73.14	73.10	72.71	73.22	73.45	73.87	74.28	.....	.....	.....	.....
7	73.35	73.15	73.20	72.77	73.22	73.43	73.89	.....	.....	a75.48	.....	.....
8	73.33	73.12	72.98	72.79	73.24	73.44	73.88	.....	.....	.....	.....	.....
9	73.30	73.03	73.18	72.90	73.24	73.44	73.91	.....	.....	.....	.....	.....
10	73.35	72.94	73.10	72.90	73.24	73.43	73.93	.....	a74.79	.....	.....	.....
11	73.14	73.06	73.08	72.84	73.21	73.45	73.92	.....	.....	.....	.....	.....
12	73.23	73.02	73.03	72.96	73.27	73.51	73.95	.....	.....	.....	.....	.....
13	73.27	72.88	73.02	72.96	73.28	73.55	73.96	.....	.....	.....	.....	.....
14	73.04	.....	72.96	72.96	73.26	73.57	73.98	a74.36	.....	.....	.....	.....
15	73.02	.....	73.01	72.96	73.28	73.57	74.00	.....	.....	.....	.....	.....
16	72.94	.....	72.91	73.01	73.26	73.56	74.03	.....	.....	.....	.....	.....
17	72.94	.....	72.94	73.02	73.32	73.53	74.03	.....	.....	.....	.....	a75.61
18	72.88	72.90	72.95	73.02	73.29	73.55	74.05	.....	.....	.....	a76.21	.....
19	72.92	72.81	72.96	73.01	73.32	73.59	74.08	.....	.....	.....	.....	.....
20	72.90	72.99	72.95	73.05	73.32	73.57	74.10	.....	.....	.....	.....	.....
21	73.00	72.91	72.90	73.05	73.37	73.60	74.11	.....	.....	.....	.....	.....
22	.....	72.86	72.87	73.04	73.38	73.62	74.13	.....	.....	.....	.....	.....
23	72.95	72.88	72.82	73.04	73.37	73.62	74.15	.....	.....	.....	.....	.....
24	72.98	72.90	72.84	73.06	73.40	73.62	74.16	.....	.....	.....	.....	.....
25	72.88	72.88	72.82	73.07	73.42	73.63	74.22	.....	.....	.....	.....	.....
26	73.10	72.89	72.79	73.11	73.43	73.65	74.19	.....	.....	.....	.....	.....
27	73.05	73.00	72.80	73.13	73.45	73.67	74.20	.....	.....	.....	.....	.....
28	73.08	73.03	72.74	73.13	73.48	73.68	74.21	.....	.....	.....	.....	.....
29	73.06		72.74	73.16	73.50	73.69	74.23	.....	.....	.....	.....	.....
30	72.99		72.75	73.18	73.50	73.72	74.24	.....	.....	.....	.....	.....
31	73.09		72.75		73.50		74.25	.....		.....		.....

a Tape measurement at another hour.

51-8-1 (*1017, p. 261; 1024, p. 132). Mrs. Ethel Waller. In yard of house on private drive, 0.25 mile north of Greenwood School.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 23	44.80	Apr. 3	44.79	July 5	44.55	Oct. 1	44.84
31	44.87	May 8	44.65	Aug. 7	44.65	Nov. 13	45.00
Mar. 6	44.92	June 5	44.57	Sept. 4	44.72	Dec. 2	45.10

51-9-1 (*1017, p. 261; 1024, p. 133). George Nagel. North of house on private drive, 0.2 mile south of Lower Hunters Trace.

Water level, in feet below land-surface datum, 1946

Feb. 1	44.91	May 8	44.58	Aug. 7	44.61	Nov. 14	45.06
Mar. 9	44.91	June 6	44.51	Sept. 4	44.71	Dec. 3	45.14
Apr. 3	44.75	July 6	44.46	Oct. 2	44.84		

51-10-1 (*1024, p. 133). Rubber Reserve Co. well RR-29. On south side of Rockford Lane, 0.3 mile east of Cane Run Road.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	33.75	Mar. 6	33.88	July 6	33.82	Oct. 2	34.12
19	33.75	Apr. 3	33.83	Aug. 7	33.92	Nov. 14	34.34
23	33.76	May 8	33.78	Sept. 5	34.02	Dec. 3	34.46
Feb. 1	33.80	June 7	33.79				

51-11-1 (*1017, p. 262; 1024, p. 133). Thieneman Bros. About 75 feet west of barn, 0.2 mile east of Camp Ground Road, on private drive which intersects Camp Ground Road at a point 0.2 mile north of its intersection with Lees Lane.

Water level, in feet below land-surface datum, 1946

Jan. 4	53.74	Jan. 19	53.75	Apr. 3	53.24	Sept. 2	53.27
13	53.80	21	53.83	May 10	52.89	Oct. 2	53.50
15	53.80	23	53.73	June 7	52.96	Nov. 14	54.06
16	53.75	28	53.74	July 9	52.76	Dec. 4	54.33
18	53.71	Mar. 6	53.47	Aug. 8	52.80		

51-11-2 (*1017, p. 262; 1024, p. 133). Kaufman Bros. 50 feet east of barn, 0.1 mile west of Cane Run Road at a point 0.1 mile south of its intersection with Rockford Lane.

Water level, in feet below land-surface datum, 1946

Jan. 18	47.48	Mar. 9	47.61	July 6	47.30	Oct. 2	47.59
19	47.50	Apr. 3	47.51	Aug. 7	47.32	Nov. 14	47.90
23	47.49	May 8	47.37	Sept. 4	47.43	Dec. 3	48.07
Feb. 1	47.55	June 6	47.31				

51-11-4 (*1024, p. 133). Rubber Reserve Co. well RR-31. On Paul Baugh's property, west side of Cane Run Road, 0.1 mile north of Rockford Lane.

Water level, in feet below land-surface datum, 1946

Jan. 13	40.95	Jan. 21	41.09	May 10	40.85	Sept. 5	40.87
15	40.99	23	40.98	June 7	40.78	Oct. 2	41.00
16	40.97	Feb. 1	41.03	July 9	40.72	Nov. 14	41.27
18	40.94	Mar. 9	41.12	Aug. 8	40.76	Dec. 3	41.44
19	40.99	Apr. 3	40.97				

51-12-8 (*1017, p. 262; 1024, p. 133). Lake Dreamland Country Club. At pump house on south side of road, at curve at west end of Lake Dreamland Road.

Water level, in feet below land-surface datum, 1946

Jan. 4	44.18	Apr. 3	38.15	July 9	45.19	Oct. 2	51.85
29	44.94	May 10	45.65	Aug. 8	49.95	Nov. 14	52.29
Mar. 9	40.43	June 6	39.07	Sept. 2	51.73	Dec. 4	52.28

51-12-9 (*1017, p. 262; 1024, p. 134). E. W. Owen. About 3 feet south of south property fence, at southwest corner of Rubber Reserve Co.'s Carbide & Carbon Chemicals plant property.

Water level, in feet below land-surface datum, 1946

Jan. 4	48.75	Jan. 19	40.09	Apr. 5	38.53	Aug. 8	55.61
11	43.79	21	42.03	8	43.41	Sept. 6	56.87
12	23.74	23	44.52	May 10	49.84	Oct. 3	57.15
15	37.21	29	52.24	June 12	40.25	Nov. 15	57.51
16	37.95	Mar. 9	u 5.02	July 9	50.22	Dec. 9	57.00
18	39.29	9	v10.28				

u 9 a.m.
v 3:40 p.m.

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51-12-12 (*1024, p. 134). Rubber Reserve Co. well RR-20. In E. I. du Pont de Nemours lower field on edge of second terrace above Ohio River normal pool. Recorder removed Sept. 27, 1946. Measuring point lowered 0.38 foot. New measuring point, top of plug. 1.8 feet above land-surface datum and 449.78 feet above mean sea level. Automatic water-stage recorder maintained during period Jan. 1 to Sept. 27, 1946.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	56.00	62.28	54.61	50.44	62.71	.....	58.28	64.11	66.30
2	55.85	62.16	54.54	50.94	62.68	.....	59.14	64.52	66.38
3	56.02	62.16	53.99	51.57	61.79	51.56	60.03	64.64	66.42
4	55.98	62.17	53.30	52.50	60.96	50.11	61.43	64.51	66.59
5	55.81	61.78	52.69	53.47	60.25	48.45	61.42	64.59	66.63
6	55.89	60.06	52.25	54.80	59.67	47.23	61.59	64.53	66.67
7	56.12	58.19	52.12	56.16	59.31	46.53	61.63	64.51	66.67
8	56.26	57.01	51.67	57.86	58.97	46.48	61.71	64.40	66.65
9	55.33	56.46	51.56	59.60	58.66	46.99	62.00	64.29	66.55
10	53.35	55.89	51.63	61.04	58.65	47.84	61.78	64.22	66.54
11	51.31	55.69	51.89	61.37	59.06	49.45	61.56	64.56	66.60
12	49.68	55.68	51.94	61.69	59.97	52.60	62.64	64.40	66.51
13	48.10	55.65	51.87	61.88	60.74	54.89	63.00	64.65	66.46
14	46.96	54.71	51.63	61.98	61.25	57.82	63.01	64.91	66.51
15	46.65	52.83	51.37	62.28	61.06	58.96	63.10	65.02	66.47
16	47.06	51.39	50.84	62.33	60.04	59.49	63.31	65.21	66.46
17	47.96	50.53	50.81	62.36	58.15	58.60	63.84	65.36	66.43
18	48.88	50.08	50.94	62.48	56.12	56.45	64.12	65.37	66.47
19	49.96	49.93	50.84	62.33	54.76	54.13	64.02	64.98	66.50
20	51.67	50.34	50.66	62.29	53.80	53.26	63.96	64.69	66.50
21	53.76	50.63	50.28	62.48	53.23	52.55	63.74	64.75	66.54
22	55.70	50.96	49.83	62.64	52.86	52.30	63.28	65.06	66.36
23	58.00	51.32	49.36	62.89	52.87	52.08	63.46	65.24	66.47
24	59.55	51.75	49.23	63.03	53.04	51.85	63.58	65.48	66.30
25	60.55	52.15	49.63	63.18	53.37	51.79	63.74	65.63	66.35
26	61.36	52.87	50.22	63.33	53.68	52.00	63.81	65.77	66.22
27	61.87	53.83	50.31	63.40	54.12	52.45	63.72	65.92	66.24
28	62.10	54.43	49.94	63.35	54.50	53.18	64.08	66.07	.....
29	62.07		49.79	63.12	55.00	54.49	64.10	66.23	.....
30	62.32		49.89	62.64	.....	58.28	64.00	66.25	.....
31	62.37		50.15		.....		64.28	66.26	

Note. Dry above obstruction at about 66 feet on Nov. 14 and Dec. 5.

51-13-1 (*1024, p. 135). Rubber Reserve Co. well RR-21. On Carbide & Carbon Chemical Corporation property, inside west boundary fence, 150 feet north of pump house.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	50.10	Jan. 18	42.85	Mar. 9	45.64	Aug. 8	56.39
11	45.24	19	44.08	Apr. 5	46.39	Sept. 6	57.70
12	43.15	21	46.90	May 10	50.94	Oct. 3	57.70
14	40.30	23	50.53	June 12	45.62	Nov. 15	58.13
15	40.31	29	54.65	July 9	54.20	Dec. 9	57.85
16	40.72						

52-7-1 (*1017, p. 263; 1024, p. 135). Lanson Beahl. In shed north of stucco house, 0.15 mile north of Johnsontown Road and 0.9 mile east of Lower River Road.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	38.93	Jan. 18	39.00	Apr. 3	38.56	Sept. 4	38.61
12	38.92	19	39.00	May 8	38.34	Oct. 1	38.84
13	39.00	23	38.93	June 5	38.43	Nov. 13	39.33
15	39.00	31	38.86	July 5	38.21	30	39.50
16	39.00	Mar. 6	38.74	Aug. 6	38.16		

52-7-2 (*1024, p. 136). Rubber Reserve Co. well RR-47. South side of Johnsontown Road, 0.84 mile west of Dixie Highway.

Water level, in feet below land-surface datum, 1946

Jan. 10	39.47	Jan. 18	39.50	Apr. 3	39.53	Sept. 4	39.38
12	39.51	19	39.54	May 8	39.35	Oct. 1	39.54
13	39.51	23	39.47	June 5	39.29	Nov. 13	39.74
15	39.57	31	39.57	July 5	39.22	30	39.84
16	39.50	Mar. 6	39.62	Aug. 6	39.24		

52-8-1 (*1017, p. 263; 1024, p. 136). Mrs. Anna Dohn. In east side of shed, at end of private road which is 0.45 mile south of Greenwood Road.

Water level, in feet below land-surface datum, 1946

Jan. 31	45.95	May 8	45.81	Aug. 7	45.71	Nov. 13	46.08
Mar. 6	46.05	June 5	45.74	Sept. 4	45.87	Dec. 2	46.16
Apr. 3	45.97	July 5	45.68	Oct. 1	45.89		

52-8-2 (*1024, p. 136). Rubber Reserve Co. well RR-38. South side of Greenwood Road, 500 feet east of Sylvania Road.

Water level, in feet below land-surface datum, 1946

Jan. 10	40.51	Jan. 18	40.57	Mar. 6	40.59	Aug. 7	40.17
12	40.54	19	40.59	Apr. 3	40.45	Sept. 4	40.34
13	40.59	21	40.69	May 8	40.23	Oct. 1	40.55
15	40.61	23	40.52	June 5	40.22	Nov. 13	40.93
16	40.59	31	40.60	July 5	40.14	Dec. 2	41.12

52-10-2 (*1017, p. 264; 1024, p. 136). H. F. Roggenkamp. About 150 feet east of road north of house, 0.2 mile east of Lower Hunters Trace, on Lower River Road. Measuring point, top of casing, at land-surface datum and 448.05 feet above mean sea level.

Water level, in feet below land-surface datum, 1946

Jan. 10	45.25	Jan. 23	44.79	May 8	44.34	Sept. 4	45.13
12	45.22	Feb. 1	44.85	June 5	44.51	Oct. 1	45.63
16	45.02	Mar. 6	44.60	July 6	44.19	Nov. 14	46.37
18	44.95	Apr. 3	44.24	Aug. 7	44.63	Dec. 3	46.63
19	44.95						

52-10-3 (*1024, p. 136). Rubber Reserve Co. well RR-36. Northeast corner of Murrays Lane and Lower Hunters Trace. No measurements made in 1946.

52-11-3 (*1017, p. 265; 1024, p. 137). Rubber Reserve Co. well P-1. About 305 feet west of southwestern corner of frame church which is about 515 feet north of west end of Lees Lane. Recorder removed Sept. 27, 1946. Measuring point lowered 0.20 foot. New measuring point, top of plug, 3.2 feet above land-surface datum and 431.65 feet above mean sea level. Automatic water-stage recorder maintained on well from Jan. 1 to Sept. 27.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Nov.	Dec.
1	33.08	33.71	30.84	28.14	33.35	30.04	31.27	34.37	35.58	.....	.....
2	33.09	33.79	30.77	28.58	33.17	29.45	31.48	34.54	35.67	.....	.....
3	33.12	33.86	30.39	28.88	32.90	28.87	31.82	34.58	35.74	.....	.....
4	33.05	33.87	29.85	29.29	32.65	28.15	32.18	34.47	35.83	.....	a37.14
5	32.90	33.73	29.47	29.61	32.55	27.46	32.20	34.60	35.79	.....	.....
6	33.00	32.71	29.35	29.94	32.42	27.05	32.32	34.60	35.78	.....	.....
7	33.14	32.10	29.44	30.27	32.36	26.88	32.38	34.60	35.79	.....	.....
8	33.05	31.73	28.99	30.69	32.27	27.08	32.47	34.64	35.85	.....	.....
9	32.39	31.57	29.20	31.21	32.22	27.57	32.60	34.63	35.87	.....	.....
10	31.10	31.34	29.32	31.59	32.31	28.25	32.57	34.67	35.87	.....	.....
11	29.83	31.48	29.49	31.62	32.62	29.06	32.62	34.82	35.93	.....	.....
12	.....	31.58	29.40	31.85	32.97	29.88	33.07	34.77	35.94	.....	.....
13	.....	31.36	29.28	31.97	33.18	30.45	33.10	34.89	35.97	.....	.....
14	27.59	30.48	29.06	32.05	33.30	31.25	33.15	34.99	36.00	a36.97	.....
15	27.76	29.43	28.82	32.20	33.17	31.45	33.24	35.00	35.99	.....	.....
16	28.35	28.62	28.48	32.28	32.57	31.61	33.37	35.06	36.00	.....	.....
17	29.10	28.38	28.67	32.37	31.58	31.23	33.61	35.09	36.09	.....	.....
18	29.72	28.35	28.78	32.46	30.60	30.20	33.69	35.08	36.13	.....	.....
19	30.34	28.35	28.63	32.46	30.22	29.42	33.68	34.94	36.15	.....	.....
20	30.81	28.83	28.39	32.57	30.07	29.06	33.73	35.01	36.14	.....	.....
21	31.37	29.06	28.15	32.70	29.98	29.01	33.73	35.01	36.17	.....	.....
22	31.84	29.23	27.79	32.81	29.98	29.03	33.68	35.20	36.14	.....	.....
23	32.30	29.41	27.54	32.90	30.07	28.95	33.85	35.23	36.22	.....	.....
24	32.67	29.71	27.64	32.98	30.23	28.90	33.88	35.37	36.18	.....	.....
25	32.83	30.05	27.99	33.08	30.46	28.92	34.00	35.38	36.21	.....	.....
26	33.21	30.33	28.35	33.21	30.62	29.11	34.02	35.43	36.21	.....	.....
27	33.38	30.70	28.03	33.28	30.86	29.47	34.06	35.46	36.27	.....	.....
28	33.45	30.84	27.67	33.28	31.00	29.90	34.25	35.56	.....	.....	.....
29	33.50		27.62	33.29	31.22	30.30	34.27	35.57	.....	.....	.....
30	33.54		27.70	33.13	31.17	30.87	34.28	35.55	.....	.....	.....
31	33.69		27.97		30.80		34.43	35.58			.....

a Tape measurement at another hour.

52-11-4 (*1017, p. 265; p. 137). Rubber Reserve Co. well E-1. 105 feet east of well 52-11-3, and about 500 feet north of Lees Lane. Recorder removed May 23, 1946. Measuring point lowered 0.20 foot. New measuring point, top of plug, 2.5 feet above land-surface datum and 429.98 feet above mean sea level. Automatic water-stage recorder maintained on well from Jan. 1 to May 23.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	32.12	32.47	29.80	27.22	32.13	.....
2	32.10	32.54	29.76	27.59	31.99	.....
3	32.15	32.62	29.40	27.85	31.72	.....
4	32.08	32.65	28.95	28.19	31.53	.....
5	31.89	32.54	28.65	28.48	31.41	.....
6	31.98	31.63	28.50	28.74	31.32	.....
7	32.12	31.16	28.58	29.03	31.27	.....
8	32.06	30.80	28.17	29.44	31.20	.....
9	31.42	30.65	28.37	29.90	31.15	.....
10	30.39	30.41	28.44	30.25	31.23	.....
11	29.25	30.55	a28.59	30.30	31.52	.....
12	28.54	30.59	.....	30.55	31.82	.....
13	.....	30.29	.....	30.65	31.99	.....
14	a27.42	29.72	.....	30.72	32.10	.....

a Tape measurement at another hour.

52-11-4--Continued.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June
15	27.42	28.80	.....	30.90	32.00	....
16	27.79	28.08	.....	31.00	31.47	....
17	28.35	27.85	.....	31.09	30.65	a30.00
18	28.82	27.80	27.90	31.19	29.87	.....
19	29.38	27.70	27.79	31.19	e29.30	.....
20	29.77	28.14	27.60	31.31	29.29	.....
21	30.24	28.27	27.35	31.43	29.18	.....
22	30.65	28.38	27.07	31.52	29.15	.....
23	31.03	28.53	26.87	31.60	29.20	.....
24	31.33	28.79	26.90	31.69	.....	.....
25	31.50	29.03	27.15	31.78	.....	.....
26	31.91	29.29	27.45	31.92	.....	.....
27	32.08	29.65	27.23	31.99	.....	.....
28	32.16	29.80	26.89	32.00	.....	.....
29	32.20		26.82	32.05	.....	.....
30	32.27		26.89	31.93	.....	.....
31	32.43		27.10	.....		

a Tape measurement at another hour.
e Estimated.

52-11-5 (*1017, p. 265; 1024, p. 138). Rubber Reserve Co. well E-2. 252 feet east of well 52-11-3, and about 500 feet north of Lees Lane. Recorder removed May 22, 1946. Measuring point lowered 0.34 foot. New measuring point, top of plug, 3.5 feet above land-surface datum and 453.90 feet above mean sea level.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts for period Jan. 1 to May 22)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Nov.	Dec.
1	55.12	55.14	52.55	50.22	54.74	.....	a52.66	.....	.....	.....	.....
2	55.08	55.22	52.64	50.49	54.66	.....	.....	.....	a57.00	.....	.....
3	55.09	55.28	52.38	50.73	54.43	a51.24	.....	.....	.....	.....	.....
4	55.02	55.32	52.00	51.01	54.33	.....	.....	.....	.....	.....	a58.62
5	54.89	55.24	51.72	51.27	54.20	.....	.....	a55.88	.....	.....	.....
6	54.93	54.59	51.61	51.47	54.12	.....	.....	.....	.....	.....	.....
7	55.01	54.19	51.66	51.77	54.06	.....	.....	.....	.....	.....	.....
8	54.95	53.80	51.27	52.09	54.01	.....	a53.77	.....	.....	.....	.....
9	54.53	53.68	51.47	52.43	53.97	.....	.....	.....	a57.24	.....	.....
10	53.74	53.44	51.48	52.82	54.02	a50.42	.....	.....	.....	.....	.....
11	52.81	53.56	51.57	52.89	54.27	.....	.....	.....	.....	.....	.....
12	52.27	53.55	51.48	53.11	54.52	.....	.....	a56.12	.....	.....	.....
13	52.69	53.30	51.41	53.23	54.64	.....	.....	.....	.....	.....	.....
14	52.18	52.91	51.24	53.32	54.74	.....	.....	.....	.....	a58.44	.....
15	51.13	52.46	51.12	53.46	54.70	.....	a54.52	.....	.....	.....	.....
16	51.27	51.65	50.84	53.61	54.24	.....	.....	.....	a57.39	.....	.....
17	51.64	51.37	50.93	53.69	53.55	a52.72	.....	.....	.....	.....	.....
18	51.94	51.22	50.99	53.78	52.99	.....	.....	.....	.....	.....	.....
19	52.37	51.03	50.92	53.82	52.65	.....	.....	a56.34	.....	.....	.....
20	52.69	51.38	50.78	53.93	52.45	.....	.....	.....	.....	.....	.....
21	53.08	51.44	50.57	54.04	52.37	.....	.....	.....	.....	.....	.....
22	.....	51.47	50.32	54.13	52.28	.....	a55.02	.....	.....	.....	.....
23	.....	51.59	50.14	54.20	.....	.....	.....	.....	a57.58	.....	.....
24	.....	51.78	50.11	54.29	.....	a51.03	.....	.....	.....	.....	.....
25	.....	51.98	50.26	54.37	.....	.....	.....	.....	.....	.....	.....
26	.....	52.14	50.46	54.52	.....	.....	.....	a56.76	.....	.....	.....
27	.....	52.43	50.32	54.59	a52.68	.....	.....	.....	a57.64	.....	.....
28	a54.82	52.50	50.03	54.64	.....	.....	.....	.....	.....	.....	.....
29	54.88		49.98	54.69	.....	.....	a55.50	.....	.....	.....	.....
30	54.92		50.01	54.61	.....	.....	.....	.....	.....	.....	.....
31	55.09		50.18		.....		.....				.....

a Tape measurement at another hour.

52-11-6 (*1024, p. 139). Rubber Reserve Co. well E-3. In field at southeast corner of Riverside Tabernacle, at west end of Lees Lane. Recorder removed May 22, 1946. Measuring point lowered 0.38 foot. New measuring point, top of plug, 2.1 feet above land-surface datum and 452.01 feet above mean sea level. Automatic water-stage recorder maintained on well from Jan. 1 to May 22.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	54.54	54.21	51.92	49.74	53.71	.....
2	54.46	54.33	51.98	49.92	53.68	.....
3	54.45	54.39	51.79	50.12	53.56	.....
4	54.38	54.36	51.56	50.36	53.46	.....
5	54.26	54.31	51.33	50.57	53.40	.....
6	54.34	53.89	51.19	50.71	53.31	.....
7	54.35	53.64	51.22	50.94	53.28	.....
8	54.29	53.29	50.86	51.19	53.23	.....
9	53.99	53.17	51.07	51.54	53.19	.....
10	53.51	52.95	51.07	51.80	53.21	.....
11	52.78	53.04	51.10	51.90	53.36	.....
12	52.36	52.98	51.00	52.13	53.58	.....
13	51.85	52.70	50.95	52.22	53.70	.....
14	51.36	52.57	50.80	52.33	53.78	.....
15	51.23	52.16	50.77	52.45	53.77	.....
16	51.19	51.59	50.51	52.58	53.49	.....
17	51.41	51.34	50.54	52.68	53.06	a51.92
18	51.55	51.13	50.58	52.77	52.58	.....
19	51.86	50.86	50.53	52.81	52.34	.....
20	52.07	51.16	50.42	52.96	52.10	.....
21	52.43	51.10	50.25	53.03	51.98	.....
22	52.68	51.09	50.07	53.10	51.87	.....
23	52.90	51.16	49.87	53.18	a51.80	.....
24	53.16	51.31	49.84	53.27	.....	.....
25	53.25	51.41	49.88	53.34	.....	.....
26	53.66	51.56	50.00	53.46	.....	.....
27	53.79	51.85	49.93	53.56	.....	.....
28	53.89	51.97	49.70	53.60	.....	.....
29	53.96		49.64	53.66	.....	.....
30	54.00		49.68	53.62	.....	.....
31	54.17		49.77		.....	

a Tape measurement at another hour.

52-11-7 (*1024, p. 139). Rubber Reserve Co. well E-4. In field east of Riverside Tabernacle, at west end of Lees Lane. Recorder removed Sept. 27, 1946. Measuring point lowered 0.20 foot. New measuring point, top of plug, 2.2 feet above land surface datum and 453.00 feet above mean sea level. Automatic water-stage recorder maintained on well from Jan. 1 to Sept. 27.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Nov.	Dec.
1	55.44	54.53	52.65	50.72	53.90	52.71	52.10	54.77	56.03	.....	.....
2	55.33	54.64	52.78	50.79	53.93	52.63	52.26	54.81	56.13	.....	.....
3	55.29	54.71	52.70	50.93	53.90	52.44	52.41	54.87	56.15	.....	.....
4	55.19	54.68	52.55	51.10	53.87	52.19	52.59	54.92	56.21	.....	a57.93
5	55.05	54.68	52.39	51.25	53.90	51.90	52.72	54.96	56.24	.....	.....
6	55.14	54.56	52.26	51.29	53.80	51.61	52.83	55.00	56.26	.....	.....
7	55.12	54.54	52.32	51.47	53.77	51.37	52.92	55.05	56.30	.....	.....
8	55.06	54.26	51.94	51.61	53.74	51.23	53.00	55.08	56.32	.....	.....
9	54.96	54.13	52.18	51.86	53.72	51.18	53.11	55.11	56.36	.....	.....
10	54.76	53.90	52.08	52.05	53.69	51.16	53.19	55.16	56.37	.....	.....
11	54.28	53.98	52.06	52.15	53.80	51.28	53.25	55.22	56.41	.....	.....
12	54.04	53.82	51.96	52.29	53.91	51.47	53.37	55.26	56.43	.....	.....
13	53.62	53.51	51.94	52.47	53.98	51.67	53.46	55.30	56.46	.....	.....
14	53.13	53.69	51.80	52.58	54.05	51.95	53.54	55.36	56.49	.....	a57.74
15	52.95	53.52	51.85	52.68	54.09	52.14	53.65	55.39	56.53	.....	.....

a Tape measurement at another hour.

52-11-7--Continued.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Nov.	Dec.
16	52.71	53.08	51.64	52.82	53.97	52.29	53.73	55.46	56.55	.....	.....
17	52.73	52.86	51.61	52.89	53.83	52.36	53.83	55.47	56.58	.....	.....
18	52.71	52.56	51.62	52.98	53.60	52.30	53.90	55.54	56.61	.....	.....
19	52.87	52.19	51.62	53.04	53.37	52.16	53.98	55.57	56.63	.....	.....
20	52.94	52.44	51.58	53.18	53.19	51.94	54.05	55.59	56.66	.....	.....
21	53.23	52.29	51.41	53.22	53.09	51.83	54.10	55.60	56.68	.....	.....
22	53.35	52.19	51.26	53.30	52.95	51.76	54.15	55.66	56.70	.....	.....
23	53.43	52.21	51.09	53.36	52.84	51.67	54.23	55.70	56.74	.....	.....
24	53.62	52.29	51.05	53.45	52.79	51.57	54.28	55.75	56.76	.....	.....
25	53.67	52.30	51.00	53.51	52.79	51.52	54.35	55.79	56.77	.....	.....
26	54.05	52.36	51.03	53.65	52.80	51.52	54.41	55.83	56.79	.....	.....
27	54.15	52.61	51.01	53.71	52.83	51.57	54.46	55.86	56.81	.....	.....
28	54.25	52.69	50.83	53.76	52.87	51.66	54.53	55.92	.....	.....	.....
29	54.30		50.78	53.85	52.92	51.78	54.59	55.97	.....	.....	.....
30	54.30		50.80	53.87	52.94	51.94	54.64	56.00	.....	.....	.....
31	54.50		50.83		52.84		54.71	56.04			.....

52-11-16 (*1017, p. 265; 1024, p. 140). Rubber Reserve Co. well W-1. 100 feet west of well 52-11-3, and about 500 feet north of Lees Lane. Recorder removed Jan. 9, 1946. Measuring point lowered 0.12 foot. New measuring point, top of plug, 1.5 feet above land-surface datum and 410.33 feet above mean sea level.

Water level, in feet below land-surface datum, 1946
(Daily noon water level, from recorder charts, for period Jan. 1 to Jan. 9)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 1	13.44	Feb. 25	10.25	May 13	14.23	Aug. 5	15.76
2	13.50	Mar. 4	10.08	20	10.18	12	15.90
3	13.64	9	9.42	27	11.40	19	15.99
4	13.55	11	9.80	June 3	8.87	26	16.62
5	13.37	18	9.02	10	8.45	Sept. 2	16.80
6	13.49	25	8.17	17	12.05	9	17.04
7	13.70	Apr. 1	8.58	24	9.20	16	17.13
8	13.63	8	11.79	July 1	12.39	23	17.30
9	12.60	15	13.50	8	13.67	27	17.32
28	14.61	22	14.06	15	14.46	Nov. 14	17.99
Feb. 11	11.83	29	14.48	22	14.88	Dec. 4	18.18
18	(f)	May 6	13.19	29	15.41		

f Flooded.

52-11-21 (*1024, p. 141). Rubber Reserve Co. well RR-28. On southeast corner of intersection of Lees Lane and Camp Ground Road. Recorder house removed June 17, 1946. Measuring point lowered 0.36 foot. New measuring point, top of plug, 1.2 feet above land-surface datum and 437.02 feet above mean sea level. Automatic water-stage recorder maintained on well Jan. 1 to May 23.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	36.36	36.02	35.69	35.20	34.98	.....	.....	.....	.....	.....	.....	.....
2	36.28	36.08	35.83	35.19	34.93	.....	.....	.....	a35.64	a36.20	.....	.....
3	36.26	36.04	35.77	35.23	34.93	.....	.....	.....	.....	.....	.....	.....
4	36.22	35.93	35.74	35.28	34.92	.....	.....	.....	.....	.....	.....	a37.17
5	36.06	35.87	35.71	35.30	35.09	.....	.....	.....	.....	.....	.....	.....
6	36.27	35.78	35.61	35.12	35.01	.....	.....	.....	.....	.....	.....	.....
7	36.34	36.04	35.78	35.21	35.00	.....	.....	.....	.....	.....	.....	.....
8	36.31	35.86	.....	35.09	35.04	.....	.....	a35.14	.....	.....	.....	.....
9	36.13	35.88	.....	35.21	35.04	.....	a34.87	.....	.....	.....	.....	.....

a Tape measurement at another hour.

52-11-21--Continued.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
10	36.36	.....	.....	35.13	35.02	.....	.....	.....	.....	.....	.....	.....
11	36.14	36.05	35.70	34.99	35.01	.....	.....	.....	.....	.....	.....	.....
12	36.41	35.92	35.52	35.17	35.09	.....	.....	.....	.....	.....	.....	.....
13	36.38	35.56	35.53	35.05	35.10	.....	.....	.....	.....	.....	.....	.....
14	36.23	35.80	35.43	35.02	35.06	.....	.....	.....	.....	.....	a36.91	.....
15	36.28	.....	.....	34.98	35.08	.....	.....	.....	.....	.....	.....	.....
16	36.18	.....	.....	35.10	35.02	.....	.....	.....	.....	.....	.....	.....
17	36.25	.....	.....	35.04	35.14	a35.05	.....	.....	.....	.....	.....	.....
18	36.13	35.88	35.53	34.99	35.07	.....	.....	.....	.....	.....	.....	.....
19	36.25	35.48	35.55	34.97	35.19	.....	.....	.....	.....	.....	.....	.....
20	36.15	35.97	35.62	35.02	35.14	.....	.....	.....	.....	.....	.....	.....
21	36.27	35.89	35.52	34.98	35.25	.....	.....	.....	.....	.....	.....	.....
22	36.31	35.70	35.40	34.94	35.25	.....	.....	.....	.....	.....	.....	.....
23	36.13	35.75	35.41	34.91	35.16	.....	.....	.....	.....	.....	.....	.....
24	36.01	35.75	35.41	34.93	.....	.....	.....	.....	.....	.....	.....	.....
25	36.05	35.76	35.40	34.89	.....	.....	.....	.....	.....	.....	.....	.....
26	.....	35.63	35.28	34.97	.....	.....	.....	.....	.....	.....	.....	.....
27	.....	35.88	35.42	34.99	a35.22	.....	.....	.....	.....	.....	.....	.....
28	a36.08	35.88	35.27	34.97	.....	.....	.....	.....	.....	.....	.....	.....
29	.....		35.22	34.99	.....	.....	.....	.....	.....	.....	.....	.....
30	35.87		35.33	34.99	.....	.....	.....	.....	.....	.....	.....	.....
31	36.09		35.43		.....		.....	.....		.....		.....

a Tape measurement at another hour.

52-12-2 (*1024, p. 141). Rubber Reserve Co. well RR-22. On property of Americus Petrall, on Ohio River bank, 0.1 mile south of Bramers Lane. Recorder removed Aug. 5, 1946. Measuring point lowered 0.21 foot. New measuring point, top of plug, 2.6 feet above land-surface datum and 436.87 feet above mean sea level. Automatic water-stage recorder maintained on well from Jan. 1 to Aug. 5.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	41.12	44.68	38.57	34.52	44.89	37.76	40.77	46.17	.....	.....	.....	.....
2	40.91	44.73	38.60	34.98	44.85	36.88	41.47	46.28	a47.13	a47.40	.....	.....
3	40.90	44.75	38.17	35.55	44.09	35.79	42.14	46.35	.....	.....	.....	.....
4	40.57	44.77	37.50	36.33	43.46	34.72	43.04	46.29	.....	.....	.....	a47.65
5	40.64	44.34	37.09	37.13	42.90	33.70	43.18	46.33	.....	.....	.....	.....
6	40.70	42.84	36.74	37.98	42.45	33.07	43.38	.....	.....	.....	.....	.....
7	a40.74	41.75	36.79	38.95	42.19	32.71	43.51	.....	.....	.....	.....	.....
8	40.65	40.82	36.23	40.14	41.89	32.75	43.65	.....	.....	.....	.....	.....
9	39.91	40.41	36.38	41.46	41.72	33.23	43.88	.....	.....	.....	.....	.....
10	38.48	39.88	36.32	42.38	41.85	33.89	44.67	.....	.....	.....	.....	.....
11	37.01	39.90	36.49	42.68	42.50	34.90	44.73	.....	.....	.....	.....	.....
12	36.03	39.70	36.38	43.00	43.17	36.73	44.73	.....	.....	.....	.....	.....
13	34.98	39.23	36.30	43.23	43.66	38.59	44.81	.....	.....	.....	.....	.....
14	34.07	38.60	36.01	43.42	43.95	40.70	.....	.....	.....	.....	a47.73	.....
15	34.06	37.55	35.87	43.68	43.93	41.50	44.88	.....	.....	.....	.....	.....
16	34.30	36.54	35.40	43.86	42.97	41.92	45.02	.....	.....	.....	.....	.....
17	34.94	36.16	35.49	43.93	41.39	41.49	45.31	.....	.....	.....	.....	.....
18	35.48	35.83	35.60	44.06	39.80	39.60	45.49	.....	.....	.....	.....	.....
19	36.25	35.54	35.49	44.09	38.88	37.92	45.56	.....	.....	.....	.....	.....
20	36.92	36.12	35.23	44.18	38.18	36.97	45.59	.....	.....	.....	.....	.....
21	38.22	36.14	34.86	44.33	37.83	36.57	45.40	.....	.....	.....	.....	.....
22	39.53	36.21	34.42	44.47	37.53	36.34	45.40	.....	.....	.....	.....	.....
23	40.91	36.46	34.07	44.63	37.41	36.18	45.58	.....	.....	.....	.....	.....
24	42.04	36.61	34.06	44.77	37.45	35.91	45.66	.....	.....	.....	.....	.....
25	42.63	36.98	34.30	44.87	37.64	35.85	45.75	.....	.....	.....	.....	.....
26	43.42	37.39	34.70	45.06	37.81	35.98	45.85	.....	.....	.....	.....	.....
27	43.78	38.12	34.57	45.14	38.20	36.38	45.83	.....	.....	.....	.....	.....
28	43.91	38.56	34.10	45.16	38.47	37.20	46.00	.....	.....	.....	.....	.....
29	44.11		34.03	45.15	38.83	38.26	46.04	.....	.....	.....	.....	.....
30	44.42		34.13	44.73	38.97	39.76	46.06	.....	.....	.....	.....	.....
31	44.62		34.38		38.65		46.20	.....		.....		.....

a Tape measurement at another hour.

53-5-2 (*1017, p. 266; 1024, p. 142). Mr. Weather. On residential property on Lower River Road, 0.35 mile north of Orell Road.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	47.10	Jan. 18	42.07	Mar. 6	44.73	Aug. 6	54.67
12	44.31	19	43.20	Apr. 3	43.23	Sept. 4	55.62
13	42.51	21	45.90	May 8	51.55	Oct. 1	55.76
15	40.98	23	47.78	June 5	42.62	Nov. 13	56.04
16	40.98	31	52.26	July 5	51.07	30	55.88

53-6-1 (*1024, p. 142). Rubber Reserve Co. well RR-46. On south side of Bethany Lane, 0.27 mile east of Lower River Road.

Water level, in feet below land-surface datum, 1946

Jan. 10	32.02	Jan. 18	31.72	Mar. 6	31.18	Aug. 6	31.19
12	32.10	19	31.85	Apr. 3	30.63	Sept. 4	31.93
13	32.03	21	32.03	May 8	30.86	Oct. 1	32.49
15	32.01	23	31.58	June 5	31.04	Nov. 13	33.15
16	31.87	31	31.67	July 5	30.59	30	33.33

53-8-2 (*1024, p. 142). Rubber Reserve Co. well RR-45. On Greenwood Road, 0.2 mile west of Lower River Road. New plug set in casing Aug. 7, 1946. Measuring point raised 0.08 foot. New measuring point, top of plug, 0.6 foot above land-surface datum and 433.50 feet above mean sea level.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts for period Apr. 21 to Aug. 6)

Jan. 10	a34.33	May 15	35.34	June 14	32.35	July 14	34.88
12	a33.33	16	35.23	15	32.67	15	35.01
13	a32.76	17	34.99	16	32.91	16	35.12
15	a31.98	18	34.65	17	33.06	17	35.24
16	a31.79	19	34.24	18	32.91	18	35.34
18	a31.86	20	33.96	19	32.62	19	35.44
19	a32.09	21	33.73	20	32.31	20	35.52
21	a32.64	22	33.52	21	32.15	21	35.59
23	a33.00	23	33.35	22	32.03	22	35.65
31	a34.86	24	33.25	23	31.93	23	35.73
Mar. 6	a31.95	25	33.23	24	31.83	24	35.79
Apr. 3	a30.77	26	33.20	25	31.76	25	35.86
20	a34.38	27	33.23	26	31.75	26	35.94
21	34.50	28	33.29	27	31.84	27	35.99
22	34.59	29	33.37	28	32.01	28	36.06
23	34.69	30	33.41	29	32.21	29	36.12
24	34.80	31	33.30	30	32.47	30	36.16
25	34.89	June 1	33.11	July 1	32.71	31	36.23
26	35.06	2	32.89	2	32.97	Aug. 1	36.29
27	35.14	3	32.63	3	33.20	2	36.34
28	35.24	4	32.29	4	33.48	3	36.40
29	35.29	5	31.93	5	33.68	4	36.43
30	35.32	6	31.55	6	33.84	5	36.47
May 1	35.36	7	31.24	7	33.98	6	36.51
9	a34.88	8	31.09	8	34.12	7	a36.58
10	34.85	9	31.03	9	34.27	Sept. 4	a37.55
11	34.92	10	31.10	10	34.39	Oct. 1	a38.06
12	35.05	11	31.30	11	34.48	Nov. 13	a38.60
13	35.17	12	31.57	12	34.63	Dec. 2	a38.59
14	35.27	13	31.90	13	34.77	6	a38.68

a Tape measurement at another hour.

53-9-1 (*1017, p. 267; 1024, p. 143). Henry Hufflage. 50 feet south of house at Arrowhead Farms, 0.15 mile west of Lower River Road opposite lane leading to well 52-9-1.

53-9-1--Continued.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 13	53.70	Jan. 21	52.83	May 8	53.66	Sept. 4	55.61
15	53.20	23	52.70	June 5	52.44	Oct. 1	56.27
16	52.90	31	53.66	July 6	52.51	Nov. 14	57.04
18	52.58	Mar. 6	52.25	Aug. 7	54.65	Dec. 2	57.22
19	52.64	Apr. 3	51.04				

53-9-2 (*1017, p. 267; 1024, p. 143). Mrs A. J. Seibert. In field, about 15 feet west of Lower River Road and about 0.45 mile north of intersection of Lower River and Greenwood Roads.

Water level, in feet below land-surface datum, 1946

Jan. 10	43.55	Jan. 18	43.63	Mar. 6	41.00	Aug. 7	43.88
12	43.74	19	43.58	Apr. 3	41.67	Sept. 4	44.93
13	44.00	21	42.90	May 8	43.29	Oct. 1	45.62
15	43.97	23	42.78	June 5	43.05	Nov. 13	46.34
16	43.83	31	43.20	July 6	42.41	Dec. 2	46.64

53-10-1 (*1017, p. 267; 1024, p. 143). W. E. Miller. In orchard, west of red brick house on line which intersects Cane Run Road, about 0.5 mile west of Lower Hunters Trace.

Water level, in feet below land-surface datum, 1946

Jan. 10	41.24	Jan. 18	38.21	Mar. 6	38.73	Aug. 7	43.37
12	40.44	19	38.33	Apr. 3	36.88	Sept. 4	44.53
13	39.80	21	38.70	May 8	41.66	Oct. 1	45.13
15	38.66	23	39.21	June 5	38.62	Nov. 14	45.78
16	38.28	31	41.30	July 6	40.04	Dec. 2	45.77

53-11-1 (*1024, p. 143). Rubber Reserve Co. well RR-43. On property of A. J. Miller, west of Lower River Road and 0.15 mile south of Lower Hunters Trace. New plug set in casing Aug. 5, 1946. Measuring point lowered 0.02 foot. New measuring point, top of plug, 1.5 feet above land-surface datum and 432.16 feet above mean sea level.

Water level, in feet below land-surface datum, 1946
(Daily noon water level, from recorder charts, for period Apr. 20 to Aug. 5)

Jan. 10	31.55	Apr. 30	38.39	May 22	31.61	June 13	34.00
12	28.55	May 1	38.92	23	31.82	14	36.04
13	27.43	2	38.48	24	32.10	15	36.32
15	27.25	3	37.64	25	32.51	16	36.50
16	28.34	4	37.04	26	32.82	17	35.45
18	30.41	5	36.57	27	33.35	18	32.87
19	31.44	6	36.34	28	33.65	19	31.27
21	33.72	7	36.23	29	34.10	20	30.68
23	36.39	8	36.03	30	33.98	21	30.58
Feb. 1	38.61	9	35.93	31	33.22	22	30.61
Mar. 6	30.56	10	36.21	June 1	31.88	23	30.54
Apr. 3	30.71	11	36.99	2	30.93	24	30.44
20	38.08	12	37.73	3	29.93	25	30.50
21	38.36	13	38.17	4	28.85	26	30.87
22	38.55	14	38.48	5	27.78	27	31.56
23	38.69	15	37.91	6	27.18	28	32.52
24	38.78	16	36.37	7	26.94	29	33.48
25	38.96	17	34.21	8	27.25	30	35.03
26	39.08	18	32.75	9	28.03	July 1	36.00
27	39.12	19	32.04	10	29.20	2	36.36
28	39.03	20	31.76	11	30.62	3	37.08
29	38.94	21	31.61	12	32.73	4	37.99

53-11-1--Continued.

Water level, in feet below land-surface datum, 1946
(Daily noon water level, from recorder charts, for period Apr. 20 to Aug. 5)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 5	37.60	July 14	38.88	July 23	39.58	Aug. 1	40.03
6	e37.7	15	38.96	24	39.65	2	40.42
7	37.74	16	39.18	25	39.85	3	40.28
8	37.85	17	39.76	26	39.79	4	40.13
9	38.08	18	39.85	27	39.81	55	40.40
10	37.84	19	39.57	28	40.15	Sept. 4	41.47
11	37.87	20	39.65	29	40.14	Oct. 1	41.28
12	39.06	21	39.41	30	40.07	Nov. 14	41.74
13	38.92	22	39.30	31	40.39	Dec. 2	41.22

e Estimated.

54-4-1 (*1017, p. 268; 1024, p. 143). Rodney Williams. In sunken well house on east side of Lower River Road, 0.9 mile north of Watson Lane.

Water level, in feet below land-surface datum, 1946

Jan. 31	51.02	May 8	52.94	Aug. 6	54.28	Nov. 13	t56.5
Mar. 6	47.77	June 5	48.47	Sept. 4	t56.5	30	t56.5
Apr. 3	44.70	July 5	49.64	Oct. 1	t56.5		

t Mud at this depth.

54-7-1 (*1024, p. 144). Rubber Reserve Co. well RR-44. On Mike Linnig's property, west of Lower River Road and 0.2 mile north of Johnsontown Road.

Water level, in feet below land-surface datum, 1946
(Daily noon water level, from recorder charts, for period May 10 to Aug. 6)

Jan. 10	23.65	May 22	24.80	June 22	24.24	July 17	30.61
12	20.15	23	25.17	23	24.25	18	30.67
13	18.81	24	25.46	24	24.20	19	30.54
15	19.14	25	25.81	25	24.28	20	30.61
16	u20.48	26	26.14	26	24.59	21	30.56
16	v20.70	27	26.57	27	e25.3	22	30.54
18	23.71	28	26.78	28	e26.4	23	30.72
19	24.74	29	27.14	29	e27.1	24	30.74
21	26.69	30	27.10	30	27.72	25	30.89
23	28.27	31	26.53	July 1	28.23	26	30.84
31	30.00	June 1	25.27	2	28.49	27	30.85
Mar. 6	23.89	2	24.30	3	28.89	28	31.10
Apr. 3	24.64	3	23.20	4	e29.1	29	31.07
May 9	28.45	4	21.86	5	29.26	30	31.01
10	28.66	5	20.92	6	29.36	31	31.20
11	30.20	8	20.75	7	29.37	Aug. 1	31.03
12	e29.7	10	23.21	8	29.47	2	31.27
13	30.02	14	27.95	9	29.66	3	31.19
14	30.18	15	28.21	10	29.58	4	31.12
15	29.90	16	28.41	11	29.66	5	31.27
16	28.89	17	27.86	12	30.20	6	31.23
17	27.19	18	26.23	13	30.09	Sept. 4	32.30
18	25.54	19	24.69	14	30.14	Oct. 1	32.36
19	24.84	20	24.14	15	30.20	Nov. 13	32.95
20	26.66	21	24.14	16	30.32	30	32.94
21	26.66						

e Estimated.
u 11:15 a.m.
v 2.00 p. m.

55-1-1 (*1017, p. 268; 1024, p. 144). W. R. Baker. 60 feet north of house which is 0.2 mile east of Dixie Highway, at Dixie View Dairy.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 6	48.04	June 5	48.18	Aug. 6	50.40	Oct. 1	52.43
May 8	48.17	July 5	47.20	Sept. 4	52.44	Nov. 13	54.32

MARYLAND

By R. R. Meyer

PROGRAM OF WORK

Ground-water investigations in Maryland were continued during 1946 in cooperation with the Maryland Department of Geology, Mines and Water Resources. The observation-well program, which was established in 1943 as a part of these investigations, has been continued and expanded during 1946. The major part of this expansion consisted of the establishment of 44 wells, chiefly in Anne Arundel County, but several observation wells were established in western Maryland. In 1946 a total of 121 wells were under observation in the State, and 691 individual tape measurements were made in these wells during the year. Automatic water-stage recorders were maintained on five wells during part of the year and on seven wells throughout the year.

FLUCTUATIONS OF WATER LEVEL

The cone of depression caused by the heavy pumpage in the Baltimore area extends beyond the area into some of the adjacent counties. Most of the observation wells in this area are near localities of heavy pumping and therefore the water levels fluctuate widely from day to day. As only a small percentage of the pumpage in the area is metered, it has not been possible to correlate the fluctuations of the water level with the changes in pumpage.

The total pumpage of ground water in the Baltimore industrial area during 1945 was estimated to be about 35 million gallons a day. From the water-level measurements made in 1946, it appears that the pumpage from the Patuxent formation was approximately the same as in 1945 and the pumpage from the Patapsco formation was increased somewhat over the pumpage in 1945.

The wide fluctuations of the water level in wells in the various districts of the area make it difficult to determine accurately the net change in the water level or artesian head; therefore, the following values of net change in the two principal aquifers should be considered approximate.

Patuxent formation

Sparrows Point district:	No change
Dundalk-Canton district:	No change
Highlandtown district:	No change
Harbor district:	Rise of 2 feet
Fairfield-Curtis Bay district:	No change to a decline of 5 feet

Patapsco formation

Sparrows Point district:	Decline of 8 feet
Dundalk-Canton district:	No change

Depth to water level in the newly established wells in western Maryland was measured only during the last 3 or 4 months of the year, consequently the net change in water levels for the year could not be determined. However, for the period of measurement, an average decline in water level of about 2 feet was measured in all wells except well Wa-Dh 1, at Sharpsburg, which showed a rise of 2 feet. The water level in well Wa-Bh 3, at Hagerstown, declined about 16 feet which was the greatest decline observed in any of the observation wells in western Maryland.

Of the 17 observation wells in Anne Arundel County, 4 showed no net change in water level and the other wells showed a decline of 1 to 2 feet. In general, wells both in artesian and water-table aquifers showed a net decline of the water level for the year in this county.

No new record high or low water level was measured in well Mont-Ff 1, at Colesville, during the year. The highest and lowest mean daily water level in the well were as follows: January 1, 12.65 feet; September 26, 17.39 feet. The net decline for the year was approximately 5 feet.

In most cases, the general decline in water level throughout the State may be attributed to a decrease in the amount of precipitation. The average yearly precipitation for Maryland was 41.71 inches and the precipitation during 1946 was 37.26 inches or 4.45 inches below the average.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Allegany County

All-Ag 1. Methodist Church. Latitude 39°40'04", longitude 78°33'50". At Flintstone, 0.25 mile south and 58° east of intersection of Routes 40 and 52. Unused dug well, depth 11.1 feet. Measuring point, top of wood well cover, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1946: Oct. 2, 4.76; Dec. 6, 6.20; Dec. 18, 6.16.

All-Bd 2. Cumberland Brewing Co. Latitude 39°39'30", longitude 78°46'13". In Cumberland, at Henderson and Valley Streets. Unused drilled industrial well, diameter 6 inches, depth 100 feet. Measuring point, top of casing, 1.00 foot above land surface. Water levels, in feet below land-surface datum, 1946: Oct. 4, 14.04; Dec. 6, 11.94; Dec. 19, 11.63.

All-Da 1. Cumberland & Pennsylvania Railroad Co. Latitude 39°29'38", longitude 79°02'37". At Westernport, on west side of Route 36 about 0.7 mile north and 8° east of Potomac River bridge. Unused drilled industrial well, diameter 12 inches, depth 87.6 feet. Measuring point, top of casing, 0.85 foot above land surface. Water levels, in feet below land-surface datum, 1946: Oct. 4, 4.66; Dec. 5, 4.96; Dec. 19, 4.92.

Anne Arundel County

AA-Ad 10. U. S. Army Ordnance Depot's well 3. Latitude 39°12'09", longitude 76°35'39". 0.7 mile south and 57° west of Curtis Creek bridge, on east side of swimming pool. Unused drilled well, diameter 8 inches, depth 108.5 feet. Measuring point, top of casing, 1.00 foot above land surface. Water level, in feet below land-surface datum, 1946: Dec. 30, 35.02.

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	March		April		May		June		July		August	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	33.75	34.20	33.96	34.08	33.65	33.70	.....	.....	33.57	33.70
2	.....	.....	33.50	33.75	33.80	33.96	33.55	33.87	.....	.....	33.63	33.70
3	.....	.....	33.50	34.01	33.81	34.04	33.82	33.93	.....	.....	33.57	33.65
4	.....	.....	33.60	34.01	33.80	34.05	33.76	33.82	.....	.....	33.54	33.61
5	34.12	34.13	33.70	34.05	33.77	33.86	33.79	33.83	.....	.....	33.55	33.60
6	34.02	34.17	33.85	34.06	33.80	33.90	33.70	33.83	.....	.....	33.55	33.64
7	33.90	34.09	33.94	34.06	33.65	33.85	33.52	33.70	.....	.....	33.55	33.70
8	33.63	34.10	33.75	34.06	33.77	33.99	33.56	33.65	.....	.....	33.70	33.75
9	33.54	34.12	33.74	34.05	33.85	33.99	33.63	33.91	.....	.....	33.61	33.73
10	34.07	34.23	34.00	34.10	33.95	34.10	33.80	34.04	.....	.....	33.52	33.62
11	34.07	34.25	33.95	34.12	33.71	33.95	33.45	33.80	33.54	33.61	33.61	33.77
12	34.07	34.29	33.87	33.95	33.79	33.99	33.49	33.52	33.47	33.56	33.75	33.80
13	33.92	34.07	33.91	33.98	33.99	34.24	33.51	33.76	33.54	33.64	33.75	33.77
14	33.73	33.93	33.90	34.01	33.90	34.24	33.76	33.86	.....	.....	33.75	33.85
15	33.58	33.96	33.50	33.88	33.86	33.90	33.82	33.87	.....	.....	33.76	33.87
16	33.96	34.12	33.59	34.11	33.64	33.86	33.62	33.83	.....	.....	33.60	33.77
17	33.86	34.04	34.01	34.17	33.65	33.76	33.45	33.63	.....	.....	33.53	33.60
18	33.85	33.90	33.79	34.01	33.70	33.80	33.45	33.65	33.54	33.57	33.49	33.63
19	33.90	33.98	33.82	34.03	33.80	33.97	33.65	33.82	33.51	33.59	33.59	33.67
20	33.97	34.02	33.69	34.15	33.76	33.97	33.60	33.77	33.53	33.56	33.67	33.80
21	33.94	34.03	34.05	34.30	33.67	34.00	.....	.....	.....	.....	33.76	33.80
22	33.64	33.94	33.77	34.05	34.00	34.17	.....	.....	.....	.....	33.70	33.77
23	33.65	34.00	33.70	33.77	34.00	34.11	.....	.....	.....	.....	33.73	33.80
24	33.85	34.01	33.69	33.80	33.80	34.00	.....	.....	.....	.....	33.73	33.80
25	33.79	33.89	33.55	33.80	33.66	33.80	.....	.....	33.56	33.63	33.72	33.75
26	33.56	33.84	33.53	33.82	33.70	33.76	.....	.....	33.63	33.74	33.67	33.73
27	33.66	33.92	33.82	34.15	33.55	33.77	33.62	33.68	33.69	33.76	33.66	33.72
28	33.86	33.96	34.11	34.24	33.77	33.95	33.61	33.67	33.64	33.73	33.65	33.72
29	33.67	33.90	34.00	34.11	33.86	33.95	.....	.....	33.56	33.65	33.63	33.70
30	33.64	34.07	34.08	34.15	33.75	33.87	.....	.....	33.54	33.60	33.70	33.82
31	34.07	34.30			33.67	33.75			33.55	33.60	33.74	33.81

AA-Ad 10--Continued.

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	September		October		November		December	
	High	Low	High	Low	High	Low	High	Low
1	33.76	33.85	.....	.....	.....	.....	34.18	34.47
2	33.72	33.76	.....	.....	.....	.....	34.47	34.85
3	33.75	33.88	.....	.....	.....	.....	34.52	34.85
4	33.87	33.94	.....	.....	.....	.....	34.49	34.52
5	33.85	33.90	.....	.....	.....	.....	34.37	34.49
6	33.76	33.87	.....	.....	.....	.....	34.24	34.61
7	33.70	33.76	.....	.....	.....	.....	34.53	34.63
8	33.72	33.76	.....	.....	.....	.....	34.46	34.54
9	33.69	33.80	.....	.....	.....	.....	34.45	34.51
10	33.60	33.74	.....	.....	.....	.....	34.26	34.45
11	33.64	33.84	.....	.....	.....	.....	34.32	34.62
12	33.84	33.97	.....	.....	.....	.....	34.16	34.61
13	33.92	34.00	.....	.....	.....	.....	34.12	34.68
14	33.78	33.92	.....	.....	.....	.....	34.55	34.68
15	33.81	33.87	.....	.....	.....	.....	34.57	34.68
16	33.85	33.91	.....	.....	.....	.....	34.66	34.80
17	.....	.....	33.86	33.93	.....	.....	34.55	34.71
18	.....	.....	33.77	34.06	.....	.....	34.70	34.89
19	.....	.....	34.06	34.29	.....	.....	34.25	34.80
20	.....	.....	.....	.....	.....	.....	34.23	34.49
21	.....	.....	.....	.....	.....	.....	34.49	34.91
22	.....	.....	.....	.....	.....	.....	.....	.....
23	.....	.....	.....	.....	.....	.....	.....	.....
24	.....	.....	.....	.....	.....	.....	.....	.....
25	.....	.....	.....	.....	34.31	34.36	.....	.....
26	.....	.....	.....	.....	34.22	34.31	.....	.....
27	.....	.....	.....	.....	34.29	34.55	.....	.....
28	.....	.....	.....	.....	34.43	34.68	.....	.....
29	.....	.....	.....	.....	34.37	34.60	.....	.....
30	.....	.....	.....	.....	34.28	34.60	.....	.....
31			.....	.....			.....	.....

AA-Ad 24. Seth Linthicum. Latitude 39°12'24", longitude 76°39'16". At Linthicum Heights, about 300 feet north of Baltimore & Annapolis Railroad (Elec.) crossing. Unused drilled well, diameter 6 inches, depth 175 feet. Measuring point, top of casing, 3.00 feet below land surface.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7	98.00	Apr. 11	97.73	Aug. 15	97.22	Nov. 7	98.62
Mar. 7	97.80	18	97.65	Sept.26	97.11	25	97.48
14	97.72	May 2	97.54	Oct. 17	97.20	Dec. 6	97.59
Apr. 4	97.68	July 25	96.99				

AA-Ad 27. S. S. Tracey. Latitude 39°10'42", longitude 76°36'20". On Furnace Creek, 0.5 mile south and 65° east of intersection of Route 270 and Governor Ritchie Highway. Used drilled domestic well, diameter 4 inches, depth 73 feet. Measuring point, top of casing, 1.00 foot above land surface.

Water level, in feet below land-surface datum, 1946

Date		Date		Date		Date	
Jan. 15	20.53	May 2	20.28	June 20	19.88	Aug. 15	20.20
Mar. 7	19.99	9	20.48	27	20.23	Sept.26	20.46
14	20.26	16	20.23	July 11	20.25	Oct. 17	20.71
Apr. 4	19.64	29	20.34	18	21.58	Nov. 7	20.98
11	20.40	June 6	20.57	25	20.30	25	21.01
18	20.23	13	20.15	Aug. 1	20.34	Dec. 6	22.17
25	20.04						

AA-Ae 4. U. S. Coast Guard Yard. Latitude 39°11'59", longitude 76°34'10". On Arundel Cove, 0.65 mile south and 52° east of Curtis Creek bridge. Used drilled well, diameter 12 to 8 inches, depth 195 feet. Measuring point, edge of pump base, 0.40 foot above land surface.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 7	21.43	May 9	21.92	June 27	20.90	Sept.26	21.79
Apr. 4	21.07	16	21.58	July 11	21.47	Oct. 17	21.84
11	21.85	29	21.96	18	21.27	Nov. 7	22.33
18	21.63	June 6	21.56	25	21.66	25	22.17
25	21.39	13	21.35	Aug. 1	21.65	Dec. 6	22.84
May 2	21.90	20	21.18	15	21.60		

AA-Bb 17. Annapolis Junction School. Latitude 39°07'19", longitude 76°47'31". At Fort George G. Meade Junction, about 1,000 feet south of Baltimore & Ohio Railroad station. Unused drilled well, diameter 6 inches, depth 46 feet. Measuring point, top of casing, 0.50 foot above land surface.

Water level, in feet below land-surface datum, 1946

Mar. 7	42.97	May 9	42.22	July 11	42.25	Sept.26	43.42
14	42.87	16	42.20	18	42.28	Oct. 17	42.80
Apr. 4	42.40	29	42.29	25	42.33	Nov. 7	43.02
11	42.44	June 6	42.29	Aug. 1	42.38	25	43.48
18	42.34	13	42.27	27	42.52	Dec. 6	43.41
25	43.26	20	42.43	Sept.19	42.65	27	43.62
May 2	42.27	27	42.26				

AA-Bb 18. William J. Harris. Latitude 39°07'26", longitude 76°47'25". At Fort George G. Meade Junction, about 1,300 feet south and 76° east of Baltimore & Ohio Railroad station. Unused drilled domestic well, diameter 6 to 4 inches, depth 108 feet. Measuring point, top of concrete curb, 1.60 feet above land surface.

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	April		May		June		July		August		September	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	22.65	22.65	.....	.....	22.87	22.88	22.97	22.97	23.14	23.16
2	.....	.....	22.65	22.68	.....	.....	22.88	22.90	22.97	22.97	23.16	23.17
3	22.35	22.39	22.68	22.68	.....	.....	22.83	22.90	22.97	22.97	23.17	23.19
4	22.39	22.40	22.68	22.69	.....	.....	22.83	22.89	22.97	22.97	23.19	23.23
5	22.40	22.40	22.68	22.69	.....	.....	22.89	22.91	22.97	22.97	23.23	23.25
6	22.40	22.41	22.68	22.68	.....	.....	22.91	22.95	22.73	22.97	23.25	23.25
7	22.41	22.44	22.65	22.68	.....	.....	22.95	22.97	22.73	22.80	23.25	23.25
8	22.44	22.51	22.65	22.65	.....	.....	22.97	22.98	22.80	22.89	23.25	23.25
9	.....	.....	22.65	22.66	.....	.....	22.98	22.98	22.89	22.90	23.25	23.25
10	.....	.....	22.66	22.69	.....	.....	22.98	22.98	22.90	22.90	23.25	23.25
11	22.51	22.51	22.69	22.69	22.59	22.60	22.94	22.98	22.90	22.94	23.25	23.25
12	22.51	22.51	22.68	22.69	22.57	22.59	22.94	22.95	22.94	22.97	.....	.....
13	22.51	22.51	22.68	22.73	22.57	22.61	22.89	22.95	22.97	22.98	.....	.....
14	22.51	22.51	22.73	22.75	22.61	22.67	22.86	22.89	22.98	23.02	.....	.....
15	22.50	22.51	22.75	22.75	22.67	22.71	.....	.....	23.02	23.05	.....	.....
16	22.49	22.50	22.72	22.75	22.71	22.74	.....	.....	23.04	23.05	.....	.....
17	22.50	22.54	22.69	22.72	22.70	22.74	.....	.....	23.01	23.04	.....	.....
18	22.54	22.55	22.66	22.68	22.67	22.70	.....	.....	22.97	23.01	.....	.....
19	22.55	22.55	.....	.....	22.67	22.70	.....	.....	22.97	22.97	23.41	23.41
20	22.55	22.55	.....	.....	22.70	22.70	.....	.....	22.97	23.00	.....	.....
21	22.55	22.61	.....	.....	22.70	22.70	.....	.....	23.00	23.04	.....	.....
22	22.61	22.61	.....	.....	22.70	22.70	.....	.....	23.04	23.05	.....	.....
23	22.59	22.61	.....	.....	22.72	22.76	.....	.....	23.05	23.05	.....	.....
24	22.56	22.59	.....	.....	22.76	22.76	22.88	22.89	23.05	23.06	.....	.....
25	22.54	22.56	22.64	22.65	22.76	22.76	22.89	22.90	23.07	23.08	.....	.....
26	22.50	22.55	22.64	22.65	22.76	22.77	22.90	22.94	23.08	23.09	.....	.....
27	22.50	22.51	.....	.....	22.77	22.80	22.94	22.96	23.09	23.10	.....	.....
28	22.51	22.57	.....	.....	22.80	22.87	22.96	22.97	23.10	23.10	.....	.....
29	22.57	22.60	.....	.....	22.87	22.87	22.97	22.97	23.10	23.10	.....	.....
30	22.60	22.64	.....	.....	22.87	22.87	22.97	22.97	23.10	23.11	.....	.....
31			.....	.....			22.97	22.97	23.11	23.14		

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AA-Bb 18--Continued.

Water level, in feet below land-surface datum, 1946
(Tape measurements)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept.19	23.41	Oct. 17	23.39	Nov. 25	23.73	Dec. 27	24.04
26	23.21	Nov. 7	23.57	Dec. 6	23.87		

AA-Be 13. R. Le Moine. Latitude 39°09'22", longitude 76°30'56". At Riviera Beach, about 700 feet south and 57° west of Route 173 intersection. Used drilled domestic well, diameter 4 inches, depth 231.6 feet. Measuring point, top of casing, 4.60 feet below land-surface.

Water level, in feet below land-surface datum, 1946

Feb. 8	18.47	May 2	18.11	June 20	18.03	Aug. 15	19.29
Mar. 7	17.84	9	18.14	27	18.42	Sept.26	19.54
14	18.21	16	17.98	July 11	18.67	Oct. 17	19.35
Apr. 4	17.67	29	17.93	18	18.83	Nov. 7	19.42
11	18.18	June 6	17.98	25	20.10	25	19.17
18	17.98	13	17.96	Aug. 1	19.16	Dec. 6	19.58
25	17.84						

AA-Be 29. Wolfe's Tavern. Latitude 39°07'58", longitude 76°34'92". At Lipins Corner, about 1.5 miles south and 33° east of Marley. Unused drilled domestic well, diameter 4 inches, depth 52.7 feet. Measuring point, top of casing, 1.20 feet above land surface.

Water level, in feet below land-surface datum, 1946

Feb. 15	23.35	Apr. 18	20.63	May 16	20.59	June 20	20.43
Mar. 7	21.03	25	20.59	29	20.60	July 18	20.24
14	20.84	May 2	20.60	June 6	20.57	Aug. 1	20.27
Apr. 4	20.73	9	20.59	13	20.50	15	20.30
11	20.67						

AA-Be 40. Harold E. West. Latitude 39°05'43", longitude 76°32'12". On Magothy River, 1.8 miles east of Baltimore & Annapolis Railroad (Elec.) crossing at Earleigh Heights. Unused drilled well, diameter 4 inches, depth 140 feet. Measuring point, top of casing, 1.10 feet above land surface.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Feb. 26	12.33	Mar. 14	12.39	Apr. 11	11.33
Mar. 7	12.35	Apr. 4	11.24		

AA-Be 54. R. Le Moine. Latitude 39°09'22", longitude 76°30'56". At Riviera Beach, about 700 feet south and 57° west of Route 173 intersection. Unused dug domestic well, diameter 36 inches, depth 15.5 feet. Measuring point, top of brick curb, 0.30 foot above land surface.

Water level, in feet below land-surface datum, 1946

Sept.26	13.92	Nov. 7	13.35	Dec. 6	13.78
Oct. 17	13.03	Nov. 25	13.60		

AA-Cc 1. U. S. Naval Academy Dairy. Latitude 39°03'56", longitude 76°40'14. At Gambrills, about 800 feet southwest of Route 180. Used drilled well, diameter 10 inches, depth 245 feet. Measuring point, top of air line, at land surface.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 7	108.64	Apr. 11	108.35	May 2	97.94	May 29	107.98
14	108.45	18	105.09	9	108.09	June 6	104.19
Apr. 4	98.62	25	97.93	16	105.00		

AA-Cc 2. U. S. Naval Academy Dairy. Latitude 39°03'56", longitude 76°40'14". At Gambrills, about 800 feet southwest of Route 180. Unused drilled well, diameter 10 inches, depth 397 feet. Measuring point, top of casing, 6.20 feet below land surface.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 20	111.12	July 18	107.84	Aug. 27	107.28	Nov. 7	107.41
27	107.39	25	108.75	Sept.26	107.15	25	108.65
July 11	107.28	Aug. 1	107.40	Oct. 17	110.06	Dec. 6	107.10

AA-Cd 8. Crownsville State Hospital. Latitude 39°01'27", longitude 76°36'10". At Crownsville, about 0.2 mile southwest of Route 178. Unused drilled well, diameter 4½ inches, depth 380.5 feet. Measuring point, top of casing, 3.00 feet above land surface.

Water level, in feet below land-surface datum, 1946

Apr. 10	86.94	May 9	87.48	June 13	87.48	July 18	87.47
18	87.60	16	87.46	20	87.48	25	87.46
25	87.47	29	87.48	27	87.46	Aug. 1	87.47
May 2	87.47	June 6	87.28	July 11	87.39		

AA-Cd 21. Mrs. Richard Whitall. Latitude 39°03'02", longitude 76°37'27". About 0.5 mile north and 76° west of Waterbury. Used drilled domestic well, diameter 6 inches, depth 55.3 feet. Measuring point, top of casing, 0.5 foot below land surface.

Water level, in feet below land-surface datum, 1946

May 6	46.22	June 13	45.30	July 25	45.45	Oct. 17	46.63
9	45.58	20	45.19	Aug. 1	45.60	Nov. 7	47.39
16	45.65	27	45.15	27	45.96	25	47.67
29	45.74	July 11	45.26	Sept.19	46.28	Dec. 6	47.16
June 6	45.52	18	45.39	26	46.89		

AA-Ce 24. Mrs. Alfred Thompson. Latitude 39°03'36", longitude 76°32'28". At Round Bay, about 0.5 mile southwest of Route 2. Unused drilled domestic well, diameter 6 inches, depth 211 feet. Measuring point, top of pump house floor, 0.92 foot above land surface.

Water level, in feet below land-surface datum, 1946

Mar. 1	73.08	May 2	74.39	June 20	72.91	Aug. 15	73.19
8	73.08	9	73.09	27	72.92	Sept.26	73.38
14	74.01	16	73.17	July 11	72.98	Oct. 17	73.33
Apr. 4	73.13	29	72.95	18	73.00	Nov. 7	73.66
11	72.94	June 6	72.79	25	73.04	25	73.75
18	73.04	13	73.37	Aug. 1	73.14	Dec. 6	73.85
25	73.07						

AA-Ce 49. G. G. Ridgley. Latitude 39°00'14", longitude 76°30'49". At Dreams Landing, about 1.5 miles north and 56° west of Severn River bridge. Unused drilled well, diameter 8 inches, depth about 450 feet. Measuring point, top of casing, 2.10 feet above land surface.

Water level, in feet below land-surface datum, 1946

June 13	29.88	July 18	30.25	Aug. 27	31.27	Nov. 7	31.27
20	29.67	25	30.22	Sept.19	31.80	25	30.93
27	29.88	Aug. 1	30.38	26	31.78	Dec. 6	31.08
July 11	30.06	15	30.42	Oct. 17	31.79		

AA-Cg 2. State of Maryland. Latitude 39°00'29", longitude 76°24'19". At Sandy Point Ferry landing, about 5.2 miles north and 67° east of Annapolis. Unused drilled well, diameter 6 inches, depth 135 feet. Measuring point, top of casing, 1.65 feet above land surface. Water levels, in feet below land-surface datum, 1946: Jan. 8, 6.82; Mar. 7, 6.10; Mar. 14, 6.72; Apr. 4, 11.64, pumping.

AA-Df 14. U. S. Naval Academy well Rifle Range 1. Latitude 38°59'17", longitude 76°28'01". Near Carrs Point, about 1.6 miles north and 65° east of Annapolis. Unused drilled well, diameter 8 inches, depth 578 feet. Measuring point, top of casing, at land surface. Water levels, in feet below land-surface datum, 1946: Jan. 7, 67.57; Mar. 7, 67.07; Mar. 14, 67.27; Apr. 4, 67.15.

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	April		May		June		July		August		September	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	67.90	68.93	67.26	68.05	66.73	67.91	70.06	71.16	.....	.....
2	.....	.....	67.65	68.47	68.05	68.51	67.30	68.37	69.99	70.85	.....	.....
3	.....	.....	67.93	69.00	67.45	68.56	67.85	68.54	69.29	70.73	.....	.....
4	.....	.....	67.25	68.50	67.25	67.92	.....	.....	69.02	70.41	69.48	70.24
5	.....	.....	67.02	67.53	67.68	68.25	.....	.....	.....	.....	69.97	71.43
6	.....	.....	67.17	67.57	67.65	68.45	.....	.....	.....	.....	69.93	71.17
7	.....	.....	67.35	67.82	67.44	67.71	.....	.....	.....	.....	69.40	71.20
8	.....	.....	67.56	68.36	67.34	68.16	.....	.....	.....	.....	69.02	69.69
9	67.09	67.40	67.63	68.02	67.07	67.90	.....	.....	.....	.....	68.95	70.94
10	66.49	67.75	67.48	68.37	67.01	67.85	.....	.....	.....	.....	70.00	71.50
11	67.34	67.75	67.81	68.40	67.23	67.84	69.23	70.23	.....	.....	.....	.....
12	67.05	67.34	67.35	67.82	67.16	68.56	69.02	70.26	.....	.....	.....	.....
13	66.81	67.25	67.20	68.56	67.49	68.82	68.64	69.97	.....	.....	.....	.....
14	.....	.....	67.55	68.24	67.80	69.56	68.36	69.48	.....	.....	.....	.....
15	.....	.....	67.42	68.24	67.60	68.30	67.85	69.70	70.70	71.35	.....	.....
16	.....	.....	67.30	68.10	67.01	67.58	68.45	69.85	70.23	71.48	.....	.....
17	.....	.....	66.93	67.64	66.96	69.20	68.30	70.12	69.48	71.00	.....	.....
18	67.82	68.57	67.20	67.76	67.65	69.87	68.69	70.42	69.44	70.50	.....	.....
19	67.55	68.40	66.96	67.37	68.50	69.85	68.95	70.61	69.00	70.45	70.62	71.39
20	67.37	68.37	66.75	67.33	67.89	68.34	69.23	70.52	69.65	70.80	69.73	71.04
21	67.50	68.56	67.07	67.86	67.81	68.44	69.25	70.34	69.72	70.90	69.35	70.65
22	67.15	68.10	67.35	68.10	67.75	68.15	69.39	70.34	69.75	70.90	68.62	69.87
23	67.67	69.40	67.59	68.65	67.47	68.37	68.96	70.57	.....	.....	68.14	70.25
24	.....	.....	.....	.....	67.41	68.20	68.89	70.53	.....	.....	68.90	70.25
25	68.24	68.63	.....	.....	67.01	68.71	68.50	70.46	.....	.....	68.86	71.05
26	67.85	68.44	.....	.....	67.45	69.61	68.77	71.10	.....	.....	69.57	71.32
27	68.05	68.44	.....	.....	67.37	69.55	68.97	70.60	69.55	70.48	70.60	71.68
28	67.76	68.51	.....	.....	68.05	69.63	68.75	70.52	68.17	69.76	70.10	71.15
29	67.41	68.00	67.47	67.64	68.20	69.61	68.70	70.67	68.10	70.30	69.49	70.86
30	67.75	68.47	66.97	68.09	67.19	68.57	69.36	70.87	.....	.....	69.26	70.73
31			67.31	67.91			69.70	71.00	.....	.....		

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	October		November		December	
	High	Low	High	Low	High	Low
1	70.21	70.97	.....	.....	69.75	70.45
2	69.75	71.00	.....	.....	68.63	71.31
3	.....	.....	.....	.....	.....	.....
4	.....	.....	.....	.....	.....	.....
5	.....	.....	.....	.....	.....	.....
6	.....	.....	.....	.....	69.85	70.37
7	.....	.....	68.91	69.23	68.96	69.85
8	.....	.....	68.78	69.96	68.45	69.32
9	.....	.....	68.43	69.43	68.57	69.05
10	.....	.....	68.17	68.92	67.44	69.14
11	.....	.....	67.97	68.42	68.60	69.07
12	.....	.....	67.88	69.90	67.97	69.13
13	.....	.....	69.28	69.94	67.65	68.95
14	.....	.....	68.82	69.43	.....	.....
15	.....	.....	.....	.....	.....	.....
16	.....	.....	.....	.....	.....	.....
17	69.65	70.16	.....	.....	.....	.....
18	69.23	70.10	.....	.....	.....	.....
19	69.51	70.00	.....	.....	.....	.....
20	68.96	69.78	.....	.....	.....	.....
21	68.73	70.05	.....	.....	.....	.....
22	69.14	70.32	.....	.....	.....	.....
23	69.33	70.60	.....	.....	.....	.....

AA-Df 14--Continued.

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	October		November		December	
	High	Low	High	Low	High	Low
24	70.19	70.63	.....	.....	.....	.....
25	.....	.....	68.55	68.85	.....	.....
26	.....	.....	66.86	68.87	.....	.....
27	.....	.....	66.85	68.51	.....	.....
28	.....	.....	68.14	68.78	.....	.....
29	.....	.....	66.72	68.90	.....	.....
30	.....	.....	68.90	70.79	.....	.....
31	.....	.....			.....	.....

AA-Df 17. U. S. Naval Academy well High Power Radio Station 1. Latitude 38°59'17", longitude 76°27'09". On Opossum Point, about 2.3 miles north and 86° east of Annapolis. Unused drilled well, diameter 3 inches, depth about 600 feet. Measuring point, edge of discharge pipe, 1.10 feet above land surface.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 28	13.54	July 25	13.60	Sept.19	14.84	Nov. 7	14.77
Mar. 7	13.49	Aug. 1	14.00	26	14.51	25	14.40
14	13.67	15	14.47	Oct. 17	14.42	Dec. 6	14.74
Apr. 4	13.39	27	14.29				

AA-Df 18. U. S. Naval Academy well High Power Radio Station 2. Latitude 38°59'22", longitude 76°27'09". On Opossum Point, about 2.3 miles north and 88° east of Annapolis. Unused drilled well, depth 587 feet. Measuring point, top of casing, at land surface. Water levels, in feet below land-surface datum, 1946: Mar. 7, 3.97; Oct. 17, 4.48.

AA-Be 14. A. B. Smith. Latitude 38°54'24", longitude 76°31'25". Near Selby Beach, about 1.5 miles north and 27° west of Mayo. Unused drilled domestic well, diameter 2 inches, depth 101 feet. Measuring point, top of casing, 1.00 foot above land surface.

Water level, in feet below land-surface datum, 1946

June 29	23.95	July 25	24.65	Sept.26	25.85	Nov. 25	26.20
July 11	24.40	Aug. 1	25.00	Oct. 17	26.11	Dec. 6	26.33
18	24.71	15	25.29	Nov. 7	26.15		

AA-Ef 3. C. L. Meredith. Latitude 38°54'59", longitude 76°27'39". At Arundel on the Bay, about 4.6 miles south of and 23° east of Annapolis. Unused drilled domestic well, diameter 1.5 inches, depth 61 feet. Measuring point, top of casing, 2.00 feet above land surface.

Water level, in feet below land-surface datum, 1946

June 20	5.43	July 18	6.21	Sept.26	6.41	Nov. 25	6.54
27	6.07	Aug. 1	6.39	Oct. 17	6.09	Dec. 6	6.80
July 11	6.20	15	6.22	Nov. 7	6.40		

Baltimore City

4N2W-9 (*987, p. 90; 1017, p. 272; 1024, p. 148). Baltimore Country Club. In Baltimore, at Falls and Harvest Roads.

Water level, in feet below land-surface datum, 1946

Jan. 4	9.43	Feb. 21	9.49	May 24	10.42	Sept.23	11.26
11	10.64	27	9.40	July 18	10.66	Nov. 6	11.27
18	9.65	Mar. 21	9.24	Aug. 21	10.27	Dec. 3	13.75
25	10.01	Apr. 18	9.94				

1S3E-12 (*1017, p. 273; 1024, p. 148). Kimball Tyler Co. In Baltimore, at Haven and Gough Streets.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	117.72	Feb. 21	118.37	June 21	116.06	Sept.23	116.36
11	117.93	Mar. 21	118.38	July 18	116.17	Nov. 6	120.02
18	118.09	Apr. 18	118.60	Aug. 21	119.52	Dec. 3	114.61
25	118.36	May 20	112.33				

2S1E-16 (*1017, p. 273; 1024, p. 148). Buck Glass Co. In Baltimore, at Lawrence and Fort Avenues.

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February	
	High	Low	High	Low
1	38.38	39.75	41.59	53.44
2	38.40	51.30	.....	.....
3	51.30	52.02	.....	.....
4	52.00	52.87	.....	.....
5	52.86	53.17	.....	.....
6	40.65	53.12	.....	.....
7	39.55	52.03	.....	.....
8	52.03	53.05	.....	.....
9	52.67	53.02	.....	.....
10	52.64	53.14	.....	.....
11	53.05	53.27	.....	.....
12	51.60	53.34	.....	.....
13	41.00	51.60	.....	.....
14	39.85	52.50	.....	.....
15	52.50	53.25	.....	.....
16	53.22	53.25	.....	.....
17	53.25	53.55	.....	.....
18	52.93	53.33	.....	.....
19	53.05	53.85	.....	.....
20	41.20	54.03	.....	.....
21	39.85	51.03	50.43	52.27
22	51.03	52.22	49.97	52.87
23	52.17	52.44	52.87	53.20
24	51.95	52.31	40.10	53.06
25	51.94	52.16	39.72	51.60
26	43.50	52.29	51.50	51.91
27	40.76	53.00	51.62	52.26
28	53.00	53.55	51.91	52.17
29	53.23	53.76		
30	53.44	53.83		
31	51.56	53.61		

Water level, in feet below land-surface datum, 1946
(Tape measurements)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	52.73	Feb. 21	50.43	May 24	52.78	Sept.28	41.51
11	52.17	28	52.01	June 21	52.26	Nov. 6	52.52
18	53.27	Mar. 21	48.59	July 18	52.56	Dec. 3	52.22
25	52.03	Apr. 18	50.83	Aug. 21	52.18		

2S3E-11 (*987, p. 90; 1017, p. 274; 1024, p. 149). J. S. Young Co. In Baltimore, at Boston and Luzerne Streets.

Water level, in feet below land-surface datum, 1946

Jan. 4	31.92	Feb. 21	32.61	June 21	31.66	Sept.23	32.36
11	32.27	Mar. 21	31.64	July 18	31.23	Nov. 6	31.56
18	32.66	Apr. 18	31.91	Aug. 21	32.25	Dec. 3	33.35
25	32.80	May 20	32.29				

2S5E-1 (*1017, p. 274; 1024, p. 150). U. S. Army. In Baltimore, on Holabird Avenue at Pumphrey Street.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	84.94	Feb. 21	88.02	June 21	83.36	Sept.23	85.97
11	86.32	Mar. 21	80.92	July 18	82.96	Nov. 6	82.54
18	87.22	Apr. 18	81.75	Aug. 22	87.28	Dec. 3	86.92
25	86.99	May 20	81.82				

2S5E-4 (*987, p. 90; 1017, p. 275; 1024, p. 150). U. S. Army. In Baltimore, on Holabird Avenue at Pumphrey Street.

Water level, in feet below land-surface datum, 1946

Jan. 4	81.50	Feb. 21	81.90	June 21	81.41	Sept.23	82.07
11	81.54	Mar. 21	81.76	July 18	81.41	Nov. 6	82.40
18	81.61	Apr. 18	81.54	Aug. 21	81.72	Dec. 3	82.42
25	81.68	May 20	81.45				

3S5E-3 (*987, p. 91; 1017, p. 275; 1024, p. 150). Federal Yeast Co. In Baltimore, 2.25 miles south and 4.09 miles east of Washington Monument.

Water level, in feet below land-surface datum, 1946

Jan. 4	40.53	Feb. 21	41.55	June 21	39.33	Sept.23	41.31
11	40.68	Mar. 21	40.25	July 18	39.62	Nov. 6	40.06
18	40.90	Apr. 18	39.41	Aug. 21	40.74	Dec. 3	40.25
25	41.09	May 20	39.35				

4S2E-4 (*1024, p. 151). Weyerhauser Lumber Co. In Baltimore, 30 feet east of Childs Street and 800 feet southwest of docks.

Water level, in feet below land-surface datum, 1946

Jan. 4	58.25	Feb. 21	59.49	June 21	60.57	Sept.23	56.26
11	57.87	Mar. 21	50.54	July 18	50.17	Nov. 6	52.04
18	57.86	Apr. 18	53.32	Aug. 21	53.19	Dec. 3	56.32
25	58.85	May 24	60.27				

5S3E-15 (*1024, p. 151). U. S. Industrial Chemical Co. well 1701. In Baltimore, 50 feet north of Patapsco and 800 feet west of Fairfield Road.

Water level, in feet below land-surface datum, 1946

Jan. 4	112.60	Feb. 21	118.91	June 21	119.51	Sept.23	120.92
11	112.50	Mar. 21	110.82	July 18	113.44	Nov. 6	112.67
18	110.88	Apr. 18	113.60	Aug. 21	115.32	Dec. 3	119.34
25	113.97	May 24	122.21				

5S3E-16 (*1024, p. 151). U. S. Industrial Chemical Co. well 1702. In Baltimore, 150 feet north of Patapsco and 800 feet west of Fairfield Road.

Water level, in feet below land-surface datum, 1946

Jan. 4	98.10	Feb. 21	94.15	June 21	116.57	Sept.23	113.58
11	102.90	Mar. 21	91.89	July 18	92.40	Nov. 6	110.56
18	98.89	Apr. 18	115.91	Aug. 21	106.13	Dec. 3	116.21
25	99.96	May 24	117.26				

6S2E-6 (*987, p. 93; 1017, p. 277; 1024, p. 152). U. S. Industrial Alcohol Co. In Baltimore, at Birch & Curtis Streets.

Water level, in feet below land-surface datum, 1946

Jan. 4	72.87	Feb. 21	70.22	June 21	99.39	Sept.23	113.14
11	85.79	Mar. 31	102.81	July 18	106.19	Nov. 6	117.69
18	91.99	Apr. 18	107.47	Aug. 21	75.80	Dec. 3	119.51
25	73.46	May 24	99.33				

6S2E-9 (*1024, p. 152). U. S. Industrial Alcohol Co. In Baltimore, at Birch and Curtis Streets. Water level, in feet below land-surface datum, 1946: Jan. 17, 89.

Baltimore County

Bal-Ef 16 (*1017, p. 278; 1024, p. 152). Water Hole. On King Avenue, 0.1 mile southeast of Babikow Road. Water levels, in feet below land-surface datum, 1946: Jan. 25, 4.45; May 20, 4.10; June 24, 6.06; Dec. 3, 6.41.

Bal-Ef 19 (*1017, p. 278; 1024, p. 152). United Clay Products Co. Between Highway 40 and Baltimore & Ohio Railroad, at Poplar. Water levels, in feet below land-surface datum, 1946: Jan. 25, 58.65; May 20, 58.90; June 24, 63.40; Dec. 3, 58.97.

Bal-Fe 19 (*1017, p. 278; 1024, p. 152). Paul Jones Distillery. In Dundalk, south of Baltimore & Ohio Railroad tracks, and 150 feet east of Willow Spring Street. Water level, in feet below land-surface datum, 1946: Dec. 3, 81.61.

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	78.61	79.54	82.27	82.55	79.27	79.52	.....	.....	.....	.....	.....	.....
2	78.61	79.64	.....	.....	78.50	79.45	.....	.....	.....	.....	.....	.....
3	79.51	80.39	.....	.....	77.70	78.50	.....	.....	.....	.....	.....	.....
4	80.10	80.82	.....	.....	77.59	77.83	.....	.....	.....	.....	.....	.....
5	80.41	80.85	.....	.....	77.67	78.06	.....	.....	.....	.....	.....	.....
6	80.12	80.67	.....	.....	77.53	78.06	.....	.....	.....	.....	.....	.....
7	80.09	81.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
8	80.70	81.32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
9	81.04	81.28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10	81.00	81.42	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
11	81.33	81.64	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12	81.32	81.66	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
13	80.85	81.44	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14	80.69	81.17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
15	81.17	81.96	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
16	81.96	82.19	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17	82.14	82.25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
18	82.15	82.33	.....	.....	.....	.....	77.19	77.27	.....	.....	.....	.....
19	82.23	82.35	.....	.....	.....	.....	77.01	77.26	.....	.....	.....	.....
20	81.06	82.29	.....	.....	.....	.....	76.98	77.24	77.48	77.66	.....	.....
21	80.56	81.03	81.71	81.85	77.18	77.33	77.07	77.30	77.43	77.82	78.74	79.22
22	81.03	81.78	80.55	81.72	77.17	77.51	76.99	77.25	77.77	78.18	78.88	79.22
23	81.78	82.22	79.95	80.56	77.33	77.56	77.24	77.57	78.12	78.30	78.58	78.98
24	81.96	82.12	79.45	80.48	77.07	77.62	77.55	77.83	78.27	78.74	78.40	78.58
25	81.84	82.25	79.35	79.73	76.97	77.30	77.79	77.89	77.98	78.67	78.44	78.66
26	82.25	82.43	79.19	79.73	77.07	77.36	.....	.....	77.63	78.08	78.64	78.71
27	81.40	82.31	78.95	79.18	77.22	77.82	.....	.....	77.48	77.72	78.68	79.67
28	80.96	81.55	78.99	79.49	77.50	77.82	.....	.....	.....	.....	79.04	79.37
29	81.55	82.13			.....	.....	.....	.....	.....	.....	.....	.....
30	82.02	82.15			.....	.....	.....	.....	.....	.....	.....	.....
31	81.99	82.35			.....	.....			.....	.....		

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		November	
	High	Low	High	Low	High	Low	High	Low
1	.....	.....	.....	.....	.....	.....	.....	.....
2	.....	.....	.....	.....	.....	.....	.....	.....
3	.....	.....	.....	.....	81.47	81.66	.....	.....
4	.....	.....	.....	.....	81.66	82.72	.....	.....
5	.....	.....	.....	.....	82.72	83.04	.....	.....
6	.....	.....	.....	.....	82.83	83.01	77.87	78.04
7	.....	.....	.....	.....	82.77	82.97	77.88	78.07
8	.....	.....	.....	.....	81.73	82.77	.....	.....
9	.....	.....	.....	.....	81.44	81.76	.....	.....
10	.....	.....	.....	.....	81.76	82.22	.....	.....
11	.....	.....	.....	.....	.....	.....	.....	.....
12	.....	.....	.....	.....	.....	.....	.....	.....
13	.....	.....	.....	.....	.....	.....	.....	.....

Bal-Fe 19--Continued.

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		November	
	High	Low	High	Low	High	Low	High	Low
14	.....	.....	.....	.....	.....	.....	.....	.....
15	.....	.....	.....	.....	.....	.....	.....	.....
16	.....	.....	.....	.....	.....	.....	.....	.....
17	.....	.....	.....	.....	.....	.....	.....	.....
18	79.62	79.93	.....	.....	.....	.....	.....	.....
19	79.54	79.85	.....	.....	.....	.....	.....	.....
20	.....	.....	.....	.....	.....	.....	.....	.....
21	.....	.....	81.90	82.32	.....	.....	.....	.....
22	.....	.....	82.15	82.61	.....	.....	.....	.....
23	.....	.....	82.38	82.74	81.19	81.50	.....	.....
24	.....	.....	82.06	82.38	81.50	81.87	.....	.....
25	.....	.....	81.69	82.06	81.86	82.20	.....	.....
26	.....	.....	.....	.....	82.20	82.39	.....	.....
27	.....	.....	.....	.....	82.39	83.28	.....	.....
28	.....	.....	.....	.....	82.29	83.46	.....	.....
29	.....	.....	.....	.....	81.63	82.31	.....	.....
30	.....	.....	.....	.....	81.55	81.98	.....	.....
31	.....	.....	.....	.....				

Bal-Ff 1 (*987, p. 93; 1017, p. 279; 1024, p. 154). City of Baltimore. At Back River sewage disposal plant.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	41.20	Feb. 21	41.11	May 20	39.84	Sept. 23	40.44
11	41.09	27	40.64	June 21	40.74	Nov. 6	40.85
18	40.72	Mar. 21	41.11	July 18	40.45	Dec. 3	40.71
25	40.76	Apr. 18	40.04	Aug. 21	40.43		

Bal-Gc 20 (*1017, p. 279; 1024, p. 154). Calvert Distillery. At St. Denis.

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April	
	High	Low	High	Low	High	Low	High	Low
1	38.84	39.29	38.83	39.12	.....	.....	.....	.....
2	39.29	39.55	.....	.....	.....	.....	.....	.....
3	39.52	39.58	.....	.....	.....	.....	.....	.....
4	39.30	40.00	.....	.....	.....	.....	.....	.....
5	39.39	39.44	.....	.....	.....	.....	.....	.....
6	.....	.....	.....	.....	.....	.....	.....	.....
7	.....	.....	.....	.....	.....	.....	.....	.....
8	.....	.....	.....	.....	.....	.....	.....	.....
9	.....	.....	.....	.....	.....	.....	.....	.....
10	38.99	39.39	.....	.....	.....	.....	.....	.....
11	39.10	39.38	.....	.....	.....	.....	.....	.....
12	39.00	39.16	.....	.....	.....	.....	.....	.....
13	39.02	39.33	.....	.....	.....	.....	.....	.....
14	39.14	39.40	.....	.....	.....	.....	.....	.....
15	39.04	39.31	.....	.....	.....	.....	.....	.....
16	39.31	39.52	.....	.....	.....	.....	.....	.....
17	38.91	39.37	.....	.....	.....	.....	.....	.....
18	38.63	38.93	.....	.....	.....	.....	38.92	39.01
19	38.63	39.30	.....	.....	.....	.....	38.97	39.18
20	39.00	39.45	.....	.....	.....	.....	38.80	39.24
21	39.00	39.06	39.28	39.29	.....	.....	39.24	39.46
22	39.00	39.41	39.22	39.29	38.80	39.10	.....	.....
23	39.29	39.42	.....	.....	38.80	39.10	.....	.....
24	38.60	39.29	.....	.....	39.02	39.16	.....	.....
25	38.60	38.77	.....	.....	38.93	39.03	.....	.....
26	38.63	39.17	.....	.....	38.63	38.99	.....	.....
27	39.17	39.43	.....	.....	38.72	38.95	.....	.....
28	39.18	39.43	.....	.....	38.89	38.99	.....	.....
29	39.25	39.47			.....	.....	.....	.....
30	38.84	39.42			.....	.....	.....	.....
31	38.53	38.85			.....	.....		

Bal-Gc 20--Continued.

Water level, in feet below land-surface datum, 1946
(Tape measurements)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 24	38.90	July 18	38.76	Sept.23	38.98	Dec. 3	39.62
June 21	38.54	Aug. 21	38.78	Nov. 6	39.26		

Bal-Gf 1 (*987, p. 93; 1017, p. 280; 1024, p. 155). Bethlehem Steel Co. At Sparrows Point.

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	32.50	33.15	.....	.....	31.54	32.01	.....	.....	.....	.....	.....	.....
2	33.08	33.62	.....	.....	31.43	31.99	.....	.....	.....	.....	.....	.....
3	32.75	33.46	.....	.....	31.62	31.14	.....	.....	.....	.....	.....	.....
4	32.90	33.37	.....	.....	31.42	32.02	.....	.....	.....	.....	.....	.....
5	33.08	34.86	.....	.....	31.69	32.20	.....	.....	.....	.....	.....	.....
6	33.24	34.76	.....	.....	31.50	32.00	.....	.....	.....	.....	.....	.....
7	33.14	33.64	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
8	33.09	33.66	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
9	32.60	33.39	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10	32.75	33.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
11	32.91	33.31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12	32.58	33.08	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
13	32.81	33.36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14	32.74	33.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
15	32.73	33.77	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
16	32.85	33.95	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17	32.70	33.65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
18	32.46	33.62	.....	.....	.....	.....	31.44	31.71	.....	.....	.....	.....
19	32.90	33.70	.....	.....	.....	.....	31.49	33.60	.....	.....	.....	.....
20	33.26	34.65	.....	.....	.....	.....	33.60	37.09	31.68	31.92	.....	.....
21	.....	.....	.....	.....	31.05	31.34	33.95	36.85	31.00	31.70	35.97	36.20
22	34.57	34.65	.....	.....	30.88	31.30	33.08	33.95	31.50	31.86	35.96	36.43
23	33.32	34.65	.....	.....	31.07	31.70	32.54	33.24	30.90	31.50	35.50	36.20
24	32.86	33.99	.....	.....	30.99	31.65	32.19	32.67	30.75	31.11	35.44	35.94
25	32.20	33.33	.....	.....	31.08	31.50	31.83	32.44	30.35	30.75	34.33	35.96
26	.....	.....	.....	.....	31.08	31.51	.....	.....	30.29	30.94	35.23	35.70
27	.....	.....	31.62	32.03	31.16	31.61	.....	.....	30.26	34.34	35.07	35.85
28	.....	.....	31.98	32.01	31.18	31.60	.....	.....	.....	.....	35.11	35.90
29	.....	.....			.....	.....	.....	.....	.....	.....	35.27	35.96
30	.....	.....			.....	.....	.....	.....	.....	.....	35.18	36.00
31	.....	.....			.....	.....			.....	.....		

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	35.00	35.61	39.57	39.94	.....	.....	43.30	45.10	53.55	54.86	38.71	39.44
2	.....	.....	39.23	39.75	.....	.....	45.10	46.96	51.70	53.37	38.98	41.06
3	.....	.....	39.19	39.61	.....	.....	46.24	47.04	50.52	51.65	40.98	44.47
4	.....	.....	39.00	39.58	.....	.....	46.30	46.85	49.99	51.25	43.96	45.23
5	.....	.....	38.58	39.21	.....	.....	44.22	46.51	51.25	52.70	43.16	45.18
6	.....	.....	38.68	39.45	.....	.....	41.70	44.22	51.55	52.80	43.16	43.85
7	.....	.....	39.00	41.37	.....	.....	40.85	42.10	52.70	53.54	42.47	43.45
8	.....	.....	40.52	41.25	.....	.....	42.10	44.36	53.17	53.81	39.54	43.00
9	.....	.....	40.03	40.83	.....	.....	44.25	46.15	53.10	54.19	38.75	39.95
10	36.41	36.85	39.80	40.62	.....	.....	46.15	46.71	51.26	53.10	39.75	40.71
11	36.44	37.41	39.83	40.35	.....	.....	46.16	46.65	51.56	52.45	40.21	41.42
12	36.96	37.84	39.43	40.25	.....	.....	44.40	46.61	52.19	54.30	40.61	41.32
13	37.61	38.45	39.46	40.80	39.42	40.27	43.38	44.76	53.28	54.40	40.61	41.52
14	37.73	38.79	40.55	41.28	40.27	42.44	43.13	44.38	52.78	53.94	41.14	42.50
15	38.37	39.26	41.15	42.50	39.60	40.82	43.87	45.91	52.92	54.24	39.60	41.40
16	39.10	39.65	.....	.....	39.00	39.60	44.78	45.30	52.39	54.20	39.21	40.06
17	38.41	39.20	.....	.....	38.95	39.45	44.76	45.41	50.27	52.43	.....	.....
18	38.61	39.24	.....	.....	38.87	39.50	44.93	45.59	51.57	53.15	.....	.....

Bal-Gf 1--Continued.

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
19	38.85	39.23	.....	.....	38.78	40.27	43.25	45.55	52.83	53.42	.....	.....
20	38.80	39.25	.....	.....	39.15	40.29	39.97	43.25	52.42	53.20	.....	.....
21	38.60	39.21	.....	.....	38.39	39.15	39.96	42.00	52.42	53.38	.....	.....
22	38.10	38.80	.....	.....	38.22	38.74	42.00	45.20	53.03	53.70	.....	.....
23	37.92	38.75	.....	.....	38.22	39.50	45.20	49.30	.....	.....	.....	.....
24	38.62	39.33	.....	.....	39.50	42.74	49.30	52.10	.....	.....	39.37	40.19
25	38.62	39.33	.....	.....	42.49	43.20	.....	.....	48.69	49.49	39.52	40.27
26	38.96	39.60	.....	.....	.....	.....	.....	.....	46.00	49.19	39.26	42.10
27	39.42	40.35	.....	.....	46.19	46.45	.....	.....	45.10	46.00	42.10	42.89
28	39.85	41.07	.....	.....	43.90	46.52	.....	.....	42.95	45.26	42.42	43.30
29	40.50	41.97	.....	.....	41.35	43.90	.....	.....	40.30	42.95	41.00	43.50
30	39.58	40.50	.....	.....	40.76	43.40	.....	.....	39.40	41.90	39.90	41.80
31	39.39	40.00	.....	.....			.....	.....			41.25	42.72

Bal-Gf 3 (*987, p. 94; 1017, p. 281; 1024, p. 156). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1946: June, 106, reported.

Bal-Gf 4 (*987, p. 95; 1017, p. 281; 1024, p. 156). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1946: June, 91, reported.

Bal-Gf 6 (*987, p. 95; 1017, p. 281; 1024, p. 157). Bethlehem Steel Co. At Sparrows Point.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	95.97	Mar. 21	104.79	July 17	94.20	Nov. 15	a 94.89
11	95.80	Apr. 18	82.54	24	90.50	25	a 91.90
18	94.99	May 20	80.48	Sept. 6	99.30	Dec. 9	a107.50
Feb. 21	91.37	June 21	104.65	Nov. 5	91.01		a105.53
27	91.91						

a Reported.

Bal-Gf 8 (*987, p. 95; 1017, p. 283; 1024, p. 157). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1946: June, 93, reported.

Bal-Gf 9 (*987, p. 96; 1017, p. 283; 1024, p. 157). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1946: June, 105, reported.

Bal-Gf 12 (*987, p. 96; 1017, p. 283; 1024, p. 157). Bethlehem Steel Co. At Sparrows Point, Water level, in feet below land-surface datum, 1946: June, 104, reported.

Bal-Gf 14 (*987, p. 96; 1017, p. 283; 1024, p. 157). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1946: June, 44, reported.

Bal-Gf 16 (*987, p. 96; 1017, p. 283; 1024, p. 157). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1946: June, 99, reported.

Bal-Gf 18 (*987, p. 96; 1017, p. 283; 1024, p. 157). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1946: Nov. 5, 95.51.

Bal-Gf 28 (*987, p. 97; 1017, p. 283; 1024, p. 157). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 68, reported; Nov. 5, 80.56, pumping.

Bal-Gf 29 (*987, p. 97; 1017, p. 283; 1024, p. 157). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 48, reported; Nov. 5, 56.52, pumping.

Bal-Gf 30 (*987, p. 97; 1017, p. 283; 1024, p. 157). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 33, reported; Nov. 5, 34.19.

Bal-Gf 31 (*987, p. 97; 1017, p. 283; 1024, p. 157). Bethlehem Steel Co. At Sparrows Point, Water level, in feet below land-surface datum, 1946: Nov. 5, 130.35.

Bal-Gf 32 (*987, p. 97; 1017, p. 283; 1024, p. 157). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 80, reported; Nov. 4, 94, reported; Nov. 5, 123.20, pumping.

Bal-Gf 33 (*987, p. 98; 1017, p. 284; 1024, p. 157). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1946: Nov. 5, 110.20.

Bal-Gf 34 (*987, p. 98; 1017, p. 284; 1024, p. 157). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 33, reported; Nov. 4, 39, reported; Nov. 5, 35.07.

Bal-Gf 36 (*987, p. 98; 1017, p. 284; 1024, p. 158). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1946: June, 83, reported.

Bal-Gf 37 (*987, p. 98; 1017, p. 284; 1024, p. 158). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1946: June, 51, reported.

Bal-Gf 38 (*987, p. 98; 1017, p. 284; 1024, p. 158). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 51, reported; Nov. 5, 108.06.

Bal-Gf 46 (*987, p. 98; 1017, p. 284; 1024, p. 158). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 38.5, reported; Nov. 5, 33.28.

Bal-Gf 47 (*987, p. 98; 1017, p. 284; 1024, p. 158). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1946: June, 78.4, reported.

Bal-Gf 48 (*987, p. 98; 1017, p. 284; 1024, p. 158). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1946: June, 78.6, reported.

Bal-Gf 50 (*987, p. 98; 1017, p. 284; 1024, p. 158). Bethlehem Steel Co. At Sparrows Point.

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April	
	High	Low	High	Low	High	Low	High	Low
1	46.04	46.25	.....	.....	44.40	44.83	.....	.....
2	46.27	47.35	.....	.....	43.96	44.42	.....	.....
3	47.10	47.35	.....	.....	43.82	44.10	44.32	44.32
4	47.10	47.37	.....	.....	43.65	44.32	.....	.....
5	46.80	52.25	.....	.....	43.78	44.53	.....	.....
6	47.22	50.15	.....	.....	43.82	44.47	.....	.....
7	46.86	47.27	.....	.....	.....	.....	.....	.....
8	47.02	47.50	.....	.....	.....	.....	.....	.....
9	46.60	47.25	.....	.....	.....	.....	.....	.....
10	46.35	46.75	.....	.....	.....	.....	.....	.....
11	46.60	46.87	.....	.....	.....	.....	.....	.....
12	46.16	46.87	.....	.....	.....	.....	.....	.....
13	46.16	46.33	.....	.....	.....	.....	.....	.....
14	46.24	46.47	.....	.....	.....	.....	.....	.....
15	46.33	47.10	.....	.....	.....	.....	.....	.....

Bal-Gf 50--Continued.

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April	
	High	Low	High	Low	High	Low	High	Low
16	46.92	47.42	.....	.....	.....	.....	.....	.....
17	46.80	48.76	.....	.....	.....	.....	.....	.....
18	46.70	47.65	.....	.....	.....	.....	.....	.....
19	46.69	47.15	.....	.....	.....	.....	.....	.....
20	46.75	53.05	.....	.....	.....	.....	.....	.....
21	49.08	54.62	.....	.....	42.65	42.88	.....	.....
22	48.14	50.65	.....	.....	42.32	43.65	.....	.....
23	43.03	48.47	.....	.....	43.65	44.38	.....	.....
24	43.03	44.25	.....	.....	43.34	44.06	.....	.....
25	.....	.....	.....	.....	43.47	43.87	.....	.....
26	.....	.....	.....	.....	43.69	44.04	.....	.....
27	.....	.....	44.60	45.00	43.68	44.35	.....	.....
28	.....	.....	44.74	45.05	43.80	44.32	.....	.....
29	.....	.....			.....	.....	.....	.....
30	.....	.....			.....	.....	.....	.....
31	.....	.....			.....	.....		

Water level, in feet below land-surface datum, 1946
(Tape measurements)

Date	Water level	Date	Water level	Date	Water level
Feb. 21	44.95	Apr. 18	44.70	June	a 59.70
27	44.60	May 20	38.57	Nov. 5	76.20

a Reported.

Bal-Gf 51 (*987, p. 99; 1017, p. 285; 1024, p. 159). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1946: June, 79, reported.

Bal-Gf 52 (*987, p. 99; 1017, p. 285; 1024, p. 159). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 84, reported; Nov. 5, 76.22.

Bal-Gf 53 (*987, p. 99; 1017, p. 285; 1024, p. 159). Bethlehem Steel Co. At Sparrows Point, Water levels, in feet below land-surface datum, 1946: June, 84, reported.

Bal-Gf 78 (*987, p. 100; 1017, p. 285; 1024, p. 159). Bethlehem Steel Co. At Sparrows Point.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 15	ab132	Sept.11	ab146	Sept.25	ab146	Oct. 16	ab146
July 15	ab141	17	ab150	Oct. 2	ab146	Dec. 5	b 63
Aug. 22	ab136						

a Pumping.
b Reported.

Bal-Gf 79 (*987, p. 100; 1017, p. 285; 1024, p. 159). Bethlehem Steel Co. At Sparrows Point.

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	29.01	29.52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	29.54	30.15	.....	.....	28.39	28.64	.....	.....	.....	.....	.....	.....
3	29.98	30.26	.....	.....	28.28	28.41	.....	.....	.....	.....	.....	.....
4	29.97	30.36	.....	.....	28.36	28.52	.....	.....	.....	.....	.....	.....
5	29.78	30.12	.....	.....	28.28	28.48	.....	.....	.....	.....	.....	.....
6	29.52	29.84	.....	.....	28.47	28.50	.....	.....	.....	.....	.....	.....
7	29.52	29.84	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
8	29.77	30.16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Bal-Gf 79--Continued.

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
9	29.52	30.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10	29.21	29.66	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
11	29.66	29.92	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
12	29.54	29.82	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
13	29.54	29.77	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14	29.61	29.95	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
15	29.48	29.69	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
16	29.69	30.45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17	29.62	30.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
18	29.07	29.68	.....	.....	.....	.....	28.89	28.95	.....	.....	.....	.....
19	29.10	29.91	.....	.....	.....	.....	28.92	29.13	.....	.....	.....	.....
20	29.35	30.11	.....	.....	.....	.....	29.13	29.84	28.11	29.34	.....	.....
21	29.14	29.38	28.45	28.66	27.51	27.57	29.84	30.88	28.67	29.11	.....	.....
22	29.26	29.95	.....	.....	27.17	27.53	30.32	30.93	28.84	29.11	.....	.....
23	29.96	30.12	28.60	28.66	27.18	27.31	29.76	30.32	28.20	28.84	.....	.....
24	29.22	29.98	27.90	28.60	.....	.....	.....	.....	27.80	28.22	35.05	35.21
25	28.91	29.22	27.96	28.16	.....	.....	.....	.....	28.05	28.27	.....	.....
26	.....	.....	27.91	28.16	.....	.....	.....	.....	27.25	28.91	.....	.....
27	.....	.....	28.03	28.47	.....	.....	.....	.....	28.91	30.01	.....	.....
28	.....	.....	28.48	28.65	.....	.....	.....	.....	.....	.....	.....	.....
29	.....	.....			.....	.....	.....	.....	.....	.....	.....	.....
30	.....	.....			.....	.....	.....	.....	.....	.....	.....	.....
31	.....	.....			.....	.....			.....	.....		

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	43.01	43.42	.....	.....	46.35	46.64	36.83	37.20	31.06	31.61
2	35.02	35.63	43.14	43.29	.....	.....	.....	.....	36.49	36.83	31.28	32.28
3	35.60	35.81	42.93	43.13	.....	.....	.....	.....	.....	.....	31.81	32.40
4	35.52	36.56	42.69	42.93	.....	.....	.....	.....	.....	.....	31.55	31.81
5	.....	.....	42.66	42.84	.....	.....	.....	.....	35.61	36.19	31.56	31.74
6	.....	.....	42.76	43.78	51.92	52.23	.....	.....	36.19	36.52	31.57	31.82
7	.....	.....	.....	.....	52.23	52.48	.....	.....	36.35	.....	31.27	31.82
8	.....	.....	.....	.....	52.36	52.48	.....	.....	.....	.....	30.91	31.27
9	.....	.....	.....	.....	50.92	52.36	38.06	38.16	.....	.....	30.89	31.03
10	.....	.....	.....	.....	49.31	50.92	38.06	38.49	.....	.....	30.62	30.96
11	.....	.....	.....	.....	48.82	49.31	38.24	38.32	34.71	35.72	30.66	31.10
12	.....	.....	.....	.....	48.44	48.82	38.00	38.32	35.23	35.64	30.85	31.23
13	.....	.....	.....	.....	47.81	48.56	38.06	38.74	34.87	35.34	30.76	31.26
14	.....	.....	.....	.....	47.50	47.81	38.43	38.61	34.88	35.34	31.10	31.22
15	.....	.....	.....	.....	47.19	47.50	37.93	38.44	34.89	35.44	31.02	31.28
16	.....	.....	.....	.....	47.06	47.22	37.20	37.93	.....	.....	31.07	31.27
17	.....	.....	.....	.....	47.10	47.24	36.39	36.57	.....	.....	30.74	31.14
18	42.69	42.81	....	.....	47.10	47.18	35.66	36.39	34.68	35.27	30.74	31.51
19	42.55	42.80	.....	.....	46.92	47.11	35.81	36.01	34.20	34.91	31.43	31.78
20	42.54	42.68	47.60	47.86	46.73	46.96	34.99	35.91	33.97	34.25	31.69	31.78
21	.....	.....	47.72	47.99	46.41	46.82	34.70	35.21	33.87	34.46	.....	.....
22	.....	.....	47.82	48.01	.....	.....	35.21	36.00	33.99	34.08	.....	.....
23	41.68	42.15	47.81	48.11	.....	.....	36.00	36.22	34.04	34.70	.....	.....
24	42.15	42.64	47.98	48.11	.....	.....	36.01	36.20	33.82	34.34	.....	.....
25	.....	.....	47.61	48.02	.....	.....	35.72	35.02	33.13	33.82	.....	.....
26	.....	.....	47.66	47.98	.....	.....	35.71	35.94	33.05	33.34	.....	.....
27	.....	.....	47.48	47.76	47.15	47.22	35.94	36.09	.....	.....	.....	.....
28	.....	.....	.....	.....	47.07	47.20	35.94	36.02	.....	.....	.....	.....
29	42.08	42.44	.....	.....	46.86	47.07	35.96	36.17	.....	.....	.....	.....
30	42.47	42.77	.....	.....	.....	.....	36.12	36.34	31.61	32.02	31.79	32.26
31	42.77	43.01	.....	.....			.....	.....			32.23	32.80

Bal-Gf 79--Continued.

Water level, in feet below land-surface datum, 1946
(Tape measurements)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
June 21	34.97	July 9	a 35.58	Aug. 14	a 48.30	Oct. 31	a 37.16
July 5	a 38.35	Aug. 11	a 47.70	Sept. 3	a 48.40		

a Reported.

Bal-Gf 89 (*987, p. 100; 1017, p. 287; 1024, p. 161). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1946: June, 95, reported.

Bal-Gf 93 (*987, p. 101; 1017, p. 287; 1024, p. 161). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1946: June, 91, reported.

Bal-Gf 100 (*987, p. 101; 1017, p. 287; 1024, p. 161). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 97.3, reported; Nov. 5, 61.85.

Bal-Gf 107 (*987, p. 101; 1017, p. 287; 1024, p. 161). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 107.8, reported; Nov. 5, 61.12; Nov. 29, 51.39, reported.

Bal-Gf 108 (*987, p. 101; 1017, p. 287; 1024, p. 161). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1946: June, 109.3, reported.

Bal-Gf 131 (*987, p. 102; 1017, p. 287; 1024, p. 161). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: May 20, 45.67; Nov. 5, 67.62.

Bal-Gf 136 (*987, p. 102; 1017, p. 287; 1024, p. 161). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: May 20, 78.74; Nov. 5, 77.85.

Bal-Gf 138 (*987, p. 102; 1017, p. 287; 1024, p. 161). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: Sept. 11, 118, pumping, reported; Oct. 31, 70, reported; Nov. 5, 62.57; Dec. 5, 57, reported.

Bal-Gf 139 (*987, p. 102; 1017, p. 287; 1024, p. 161). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 77, reported; Oct. 31, 79.6, reported; Dec. 5, 127.5, pumping, reported.

Bal-Gf 140 (*987, p. 102; 1017, p. 287; 1024, p. 161). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 143, pumping, reported; Oct. 31, 74, reported.

Bal-Gf 165. Bethlehem Steel Co.'s well Old Town Water 25. At Sparrows Point. Unused drilled industrial well, diameter 8 inches, depth 225 feet. Measuring point, top of small pipe attached to discharge pipe, 2.00 feet below land surface. Water level, in feet below land-surface datum, 1946: Nov. 5, 34.82.

Bal-Gf 166 (*987, p. 102; 1017, p. 287; 1024, p. 161). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 32, reported; Sept. 23, 41, reported.

Bal-Gf 167 (*987, p. 102; 1017, p. 288; 1024, p. 162). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 64, reported; Sept. 23, 64, reported.

Bal-Gf 168 (*987, p. 102; 1017, p. 288; 1024, p. 162). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 64, reported; Sept. 23, 60, reported; Nov. 5, 66.17.

Bal-Gf 169 (*987, p. 102; 1017, p. 288; 1024, p. 162). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 33, reported; Sept. 23, 41, reported.

Bal-Gf 170 (*987, p. 103; 1017, p. 288; 1024, p. 162). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 32, reported; Sept. 23, 42, reported.

Bal-Gf 171 (*987, p. 103; 1017, p. 288; 1024, p. 162). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 72, reported; Sept. 23, 67, reported.

Bal-Gf 172 (*987, p. 103; 1017, p. 288; 1024, p. 162). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 67, reported; Sept. 23, 69, reported.

Bal-Gf 173 (*987, p. 103; 1017, p. 288; 1024, p. 162). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 41, reported; Sept. 23, 43, reported; Nov. 5, 37.68.

Bal-Gf 174 (*987, p. 103; 1017, p. 288; 1024, p. 162). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 55, reported; Sept. 23, 64, reported.

Bal-Gf 175 (*987, p. 103; 1017, p. 288; 1024, p. 162). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 88, reported; Sept. 23, 93, reported.

Bal-Gf 176 (*987, p. 103; 1017, p. 288; 1024, p. 162). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1946: June, 78, reported; Sept. 23, 88, reported.

Bal-Gf 177 (*987, p. 103; 1017, p. 288; 1024, p. 162). Baltimore Transit Co. In Bay Shore Park. Longitude 76°25'30", latitude 39°12'30". Water level, in feet below land-surface datum, 1946: Nov. 6, 38.27.

Bal-Gf 183 (*1017, p. 289; 1024, p. 162). Chesapeake Terrace School. At Lodge Forest. Water level, in feet below land-surface datum, 1946: Nov. 6, 34.46.

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Date	High level	Low level	Date	High level	Low level
Jan. 1	27.72	27.94	Jan. 31	28.08	28.10
2	27.94	28.31	Feb. 1	28.00	28.08
3	28.31	28.48	21	27.52	27.53
4	28.48	28.62	22	27.53	27.61
5	28.56	28.65	23	27.51	27.61
6	28.36	28.56	24	27.35	27.51
8	28.35	28.48	26	27.33	27.35
9	28.40	28.50	27	27.20	27.33
10	28.31	28.40	28	27.20	27.42
11	28.37	28.38	Mar. 1	27.35	27.43
12	28.26	28.38	2	27.23	27.35
13	28.26	28.32	21	25.37	25.58
14	28.32	28.46	22	25.10	25.36
15	28.34	28.46	23	25.10	25.55
16	28.34	28.60	24	25.15	25.35
17	28.58	28.60	25	25.29	25.77
18	27.97	28.59	26	25.77	26.25
19	27.96	28.16	27	25.88	26.22
20	28.16	28.37	Apr. 18	27.37	27.37
21	28.15	28.40	19	27.37	27.50
22	28.10	28.15	20	27.50	27.99
23	28.12	28.32	21	27.99	28.61
25	27.98	28.29	22	28.61	28.65
26	27.92	27.99	23	28.51	28.61
27	27.99	28.22	24	28.46	28.51
28	28.10	28.22	25	28.27	28.46

Bal-Gf 183--Continued.

Daily high and low water level, in feet below land-surface datum, 1946
(From recorder charts)

Date	High level	Low level	Date	High level	Low level
May 20	29.73	29.77	Sept.23	35.03	36.00
21	29.42	29.73	24	34.85	35.02
June 25	30.19	30.24	25	34.85	34.94
26	30.24	30.30	26	34.94	35.10
27	30.30	30.35	27	35.10	35.26
28	30.35	30.44	28	35.26	35.36
29	30.44	30.50	29	35.36	35.44
30	30.50	30.56	30	35.33	35.44
July 18	32.84	32.97	Dec. 3	32.05	32.11
19	33.02	33.25	4	32.02	32.05
20	33.25	33.41	9	31.90	32.02
21	33.41	33.60	10	31.71	31.90
Aug. 21	35.32	35.32			

Bal-Gf 191. Bethlehem Steel Co.'s well Old Town Water 26. At Sparrows Point. Unused drilled industrial well, diameter 8 inches, depth 280 feet. Measuring point, top of small pipe attached to discharge pipe, 1.00 foot above land surface. Water level, in feet below land-surface datum, 1946: Nov. 5, 56.37.

Bal-Gf 192. Bethlehem Steel Co.'s well Old Town Water 27. At Sparrows Point. Unused drilled industrial well, diameter 8 inches, depth 280 feet. Measuring point, top of small pipe attached to discharge pipe, 3.00 feet above land surface. Water level, in feet below land-surface datum, 1946: Nov. 5, 55.50.

Bal-Gf 200. Bethlehem Steel Co.'s well Coke Oven 33. At Sparrows Point. Used drilled industrial well, diameter 12 inches, depth 186.5 feet. Measuring point, top of air line, 2.00 feet above land-surface.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
June	b 38	Oct. 31	b 38	Dec. 5	b 33
Sept.11	ab 93	Nov. 5	32.84		

a Pumping.
b Reported.

Bal-Gf 201. Bethlehem Steel Co.'s well Coke Oven 34. At Sparrows Point. Used industrial well, diameter 12 inches, depth 193 feet. Measuring point, top of air line, 2.00 feet above land surface.

Water level, in feet below land-surface datum, 1946

June	b 51	Oct. 31	b 37.6	Dec. 5	b 33
Sept.11	ab105.5	Nov. 5	34.48		

a Pumping.
b Reported.

Bal-Gf 202. Bethlehem Steel Co.'s well Coke Oven 35. At Sparrows Point. Used industrial well, diameter 12 inches, depth 190.5 feet. Measuring point, top of air line, 2.00 feet above land surface. Water levels, in feet below land-surface datum, 1946: Sept. 11, 74, reported; Oct. 31, 48, reported; Dec. 5, 38, reported.

Carroll County

Car-Bb 1. Mrs. Joe Elliott. Latitude 39°39'44", longitude 77°10'33". At Taneytown, about 500 feet north of intersection of Routes 32 and 71. Unused dug well, depth 31.2 feet. Measuring point, top of concrete cover, at land surface. Water levels, in feet below land-surface datum, 1946: Sept.30, 5.38; Dec. 2, 4.52; Dec. 18, 5.48.

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Car-Bf 1. Town of Hampstead's well 1. Latitude 39°36'40", longitude 77°51'00". At Hampstead, about 0.5 mile south and 36° east of intersection of Western Maryland Railway and Route 30. Unused drilled well, diameter 8 inches, depth about 400 feet. Measuring point, top of casing, 3.50 feet below land surface. Water levels, in feet below land-surface datum, 1946: Sept. 30, 68.39; Dec. 18, 70.99.

Dorchester County

Dor-Ce 11. Dorchester Water Co. well Mill Street 2. Latitude 38°34'37", longitude 76°04'30". In Cambridge, on northeast corner of intersection of Mill and Water Streets. Unused drilled well, diameter 10 inches, depth 375 feet. Measuring point, top of casing, 0.5 foot above land surface.

Daily high and low water level, in feet below land-surface datum, 1946 (From recorder charts)

Day	June		July		August		September		October	
	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	66.57	67.67	69.76	87.33	.....	.....	.....	.....
2	.....	.....	66.26	67.17	.....	.....	.....	.....	.....	.....
3	.....	.....	66.53	67.27	.....	.....	.....	.....	.....	.....
4	.....	.....	65.85	67.39	.....	.....	70.30	95.10	.....	.....
5	.....	.....	65.22	66.06	.....	.....	78.12	96.60	.....	.....
6	.....	.....	65.57	66.28	.....	.....	80.60	95.42	.....	.....
7	.....	.....	64.56	65.87	.....	.....	78.28	93.69	.....	.....
8	.....	.....	64.50	65.20	.....	.....	74.91	78.55	.....	.....
9	.....	.....	64.50	65.30	.....	.....	74.45	82.25	77.60	90.49
10	.....	.....	64.99	66.73	.....	.....	.....	.....	75.59	77.60
11	.....	.....	64.84	66.40	.....	.....	.....	.....	74.85	76.20
12	.....	.....	65.69	74.94	.....	.....	.....	.....	72.65	75.50
13	.....	.....	65.83	66.40	.....	.....	.....	.....	71.80	73.15
14	67.65	68.17	64.89	66.23	.....	.....	.....	.....	71.13	72.47
15	66.93	74.75	64.23	66.53	.....	.....	.....	.....	71.70	72.75
16	64.00	65.85	65.35	66.84	.....	.....	.....	.....	72.00	73.41
17	64.39	66.29	65.49	67.82	.....	.....	.....	.....	72.28	74.70
18	65.28	67.61	66.61	68.78	.....	.....	.....	.....	72.20	73.61
19	66.78	68.23	67.24	68.78	.....	.....	.....	.....	72.15	73.20
20	67.01	67.94	67.22	68.63	.....	.....	.....	.....	70.56	72.15
21	67.21	68.66	66.60	67.91	.....	.....	.....	.....	69.52	70.56
22	68.11	69.87	65.24	66.64	.....	.....	.....	.....	69.75	70.65
23	66.97	69.07	65.65	67.63	.....	.....	.....	.....	70.19	71.71
24	65.83	67.10	66.86	68.42	.....	.....	.....	.....	71.81	71.93
25	65.82	68.58	67.44	69.44	.....	.....	.....	.....	71.02	71.91
26	67.78	70.03	68.04	69.88	.....	.....	.....	.....	71.05	71.84
27	68.70	69.36	68.16	69.24	.....	.....	.....	.....	70.09	71.83
28	68.70	70.68	66.55	68.70	.....	.....	.....	.....	69.64	71.40
29	69.32	70.47	65.67	66.88	.....	.....	.....	.....	70.62	71.40
30	67.48	69.35	65.55	68.71	.....	.....	.....	.....	.....	.....
31			67.32	85.50	.....	.....			.....	.....

Frederick County

Fr-Bd 1. Town of Thurmont. Latitude 39°36'28", longitude 77°25'42". At High Run, 1.4 miles south and 39° west of Thurmont. Unused drilled well, diameter 6 inches, depth unknown. Measuring point, top of casing, at land surface. Water levels, in feet below land-surface datum, 1946: Oct. 1, 13.61; Dec. 2, 14.54; Dec. 18, 14.71.

Fr-Cg 1. Jesse N. Nicodemus. Latitude 39°31'58", longitude 77°13'56". At Johnsville, 1.25 miles north and 15° east of intersection of Routes 26 and 641. Used dug domestic well, diameter 36 inches, depth 43 feet. Measuring point, top of concrete curb, 0.20 foot above land surface.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 1	37.20	July 15	37.80	July 29	38.20	Aug. 12	38.30
8	37.48	22	37.98	Aug. 5	38.32	19	38.45

Fr-Cg 1--Continued.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 26	38.49	Sept.30	38.88	Nov. 4	39.08	Dec. 9	39.42
Sept. 3	38.50	Oct. 7	39.05	12	39.22	16	39.46
9	38.67	14	39.02	18	39.22	23	39.30
16	38.80	21	39.15	25	39.28	30	39.23
23	38.88	28	38.95	Dec. 2	39.38		

Fr-Ee 1. Mrs. Roy Putnam. Latitude 39°24'10", longitude 77°22'42". About 30 feet south of Route 40, 0.65 mile west of Monocacy River bridge. Used dug domestic well, diameter 43 inches, depth 58.1 feet. Measuring point, top of brick curbing, at land surface. Water levels, in feet below land-surface datum, 1946: Oct. 23, 50.30; Dec. 3, 51.28; Dec. 20, 51.62.

Fr-Fc 1. Montgomery Orrison. Latitude 39°16'40", longitude 77°31'18". About 1 mile east of Point of Rocks, 500 feet east of intersection of Route 15 and Baltimore & Ohio Railroad. Used dug domestic well, diameter 52 inches, depth 27.6 feet. Measuring point, top of concrete floor, at land surface. Water levels, in feet below land-surface datum, 1946: Oct. 22, 16.06; Dec. 31, 18.08.

Fr-Fd 3. Thomas & Co. Latitude 39°18'45", longitude 77°28'24". At Adamstown, about 700 feet north and 25° east of Baltimore & Ohio Railroad. Unused drilled industrial well, diameter 6 inches, depth 73 feet. Measuring point, top of casing, 0.20 foot below land surface. Water level, in feet below land-surface datum, 1946: Dec. 26, 17.38.

Garrett County

Gar-Ag 1. Town of Frostburg. Latitude 39°40'20", longitude 78°58'59". In Savage River valley, about 4 miles north and 40° west of Frostburg. Unused drilled well, diameter 8 inches, depth 30 feet. Measuring point, top of casing, at land surface. Water levels, in feet below land-surface datum, 1946: Oct. 3, 8.20; Dec. 6, 7.93; Dec. 19, 8.34.

Gar-Bb 1. R. O. McCullough. Latitude 39°39'45", longitude 79°24'16". At Friendsville, about 500 feet south and 85° east of Youghiogheny River bridge. Unused augered domestic well, diameter 16 inches, depth 37 feet. Measuring point, top of pump platform, at land surface. Water levels, in feet below land-surface datum, 1946: Oct. 3, 28.14; Dec. 5, 24.75; Dec. 19, 23.98.

Gar-Db 7. City of Oakland's well 2. Latitude 39°24'58", longitude 79°24'38". About 0.6 mile north and 5° west of Oakland. Unused drilled well, diameter 6 inches, depth 67 feet. Measuring point, top of casing, 2.00 feet above land-surface. Water levels, in feet below land-surface datum, 1946: Apr. 30, 10.05; Dec. 19, 62.45.

Harford County

Har-Bb 1. Karl C. Ascherfeld. Latitude 39°36'22", longitude 76°28'27". At Jarrettsville, 0.25 mile west of intersection of Routes 23 and 165. Used dug well, diameter 36 inches, depth 45 feet. Measuring point, top of board flooring, at land surface. Water levels, in feet below land-surface datum, 1946: Aug. 22, 32.12; Oct. 24, 32.81; Dec. 17, 34.31, pumping.

Har-Cc 8. Maryland Water Works Co.'s well Bynum 2. Latitude 39°33'59", longitude 76°21'57". About 500 feet south and 68° west of crossroads at Bynum. Unused drilled well, depth 50 feet. Measuring point, top of air line, 1.00 foot above land-surface. Water levels, in feet below land-surface datum, 1946: Aug. 23, 3.06; Dec. 17, 8.52.

Howard County

How-Bd 1. S. D. Slack. Latitude 39°18'10", longitude 76°57'56". At Slack's Corner, 1.2 miles north and 12° east of intersection of Routes 40 and 32. Used dug well, diameter 60 inches, depth 48 feet. Measuring point, top of board flooring, 0.50 foot above land surface. Water levels, in feet below land-surface datum, 1946: Oct. 24, 39.53; Dec. 11, 39.46; Dec. 26, 40.74.

How-Bf 1. Maryland Water Works Co.'s well Old 1. Latitude 39°16'50", longitude 76°48'26". About 1.0 mile north and 26° west of Ellicott City. Unused drilled well, diameter 8 inches, depth 127.6 feet. Measuring point, top of casing, at land surface. Water levels, in feet below land-surface datum, 1946: Oct. 25, 5.51; Dec. 26, 5.07.

Montgomery County

Mont-Ef 9. City of Rockville. Latitude 39°04'50", longitude 77°07'48". At Rockville, 0.65 mile west of intersection of Baltimore & Ohio Railroad and Route 586. Unused drilled well, diameter 8 inches, depth 133.5 feet. Measuring point, top of casing, 3.75 feet below land surface. Water levels, in feet below land-surface datum, 1946: Oct. 24, 37.38; Dec. 27, 31.95.

Mont-Ff 1 (*817, p. 80; 840, p. 120; 845, p. 149; 886, p. 252; 907, p. 56; 937, p. 62; 945, p. 82; 987, p. 104; 1017, p. 290; 1024, p. 164). Walter M. Brown. 1.5 miles southwest of Colesville.

Mean daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.65	14.09	13.67	13.59	15.53	14.37	15.31	16.46	16.95	17.30	17.17	.....
2	12.80	14.16	13.67	14.56	15.53	14.05	15.35	16.47	16.97	17.30	17.17	17.14
3	12.92	14.24	13.75	14.61	15.56	13.83	15.40	16.50	17.00	17.31	17.17	17.15
4	13.00	14.31	13.83	14.65	15.57	13.84	15.44	16.52	17.02	17.32	17.17	17.15
5	13.06	14.34	13.89	14.70	15.55	13.88	15.48	16.54	17.04	17.33	17.18	17.15
6	13.11	14.32	13.95	14.74	15.58	13.92	15.51	16.55	17.07	17.35	17.18	17.15
7	13.18	14.05	14.01	14.78	15.59	13.95	.....	16.41	17.08	17.35	17.18	17.17
8	13.24	14.11	14.02	14.82	15.58	14.00	.....	16.43	17.10	17.35	17.17	17.17
9	13.28	14.09	13.77	14.86	15.62	14.11	.....	16.46	17.12	17.36	17.17	17.18
10	13.24	14.01	13.89	14.91	15.65	14.21	.....	16.49	17.14	17.37	17.18	17.17
11	13.33	14.05	13.99	14.94	15.65	14.25	15.82	16.53	17.16	17.38	17.18	17.18
12	13.20	14.10	14.08	14.96	15.66	14.29	15.85	16.56	17.18	17.38	17.18	17.17
13	13.16	14.00	14.11	15.00	15.67	14.37	15.90	16.59	17.20	17.36	17.19	17.18
14	13.22	13.68	14.14	15.04	15.67	14.48	15.94	16.62	17.23	17.34	17.19	17.19
15	13.23	13.69	13.96	15.04	15.59	14.56	15.97	16.64	17.25	17.33	17.20	17.20
16	13.37	13.76	14.03	15.09	15.59	14.63	16.02	16.66	17.26	17.33	17.21	17.21
17	13.39	13.73	14.10	15.14	15.59	14.66	16.05	16.66	17.28	17.31	17.20	17.21
18	13.41	13.78	14.05	15.16	15.57	14.72	16.09	16.68	17.30	17.30	17.15	17.22
19	13.51	13.76	14.08	15.20	15.39	14.81	16.12	16.70	17.32	17.31	17.12	17.23
20	13.65	13.28	14.15	15.22	15.36	14.86	16.16	16.72	17.35	17.31	17.10	.....
21	13.63	13.20	14.19	15.29	15.23	14.90	16.21	16.74	17.37	17.32	17.10	.....
22	13.75	13.22	14.20	15.30	15.24	14.96	16.25	16.76	17.38	17.31	17.09	.....
23	13.83	13.21	14.24	15.31	15.23	15.03	16.19	16.78	17.39	17.30	17.09	.....
24	13.82	13.23	14.29	15.34	15.23	15.07	16.18	16.79	17.37	17.28	17.10	.....
25	13.85	13.31	14.31	15.36	15.24	15.12	16.21	16.81	17.38	17.28	17.10	.....
26	13.95	13.39	14.34	15.35	15.27	15.18	16.26	16.84	17.39	17.26	.....	.....
27	14.09	13.45	14.38	15.40	15.11	15.23	16.30	16.85	17.37	17.22	.....	.....
28	14.14	13.56	14.41	15.45	14.65	15.28	16.33	16.87	17.32	17.21	.....	.....
29	14.21		14.44	15.47	14.36	15.32	16.36	16.89	17.31	17.20	.....	.....
30	14.21		14.47	15.51	14.35	15.37	16.39	16.91	17.31	17.19	.....	.....
31	14.07		14.55		14.37		16.42	16.93		.....		.....

Washington County

Wa-Ac 1. Susan Creager. Latitude 39°41'59", longitude 78°10'31". At Hancock, 0.6 mile east of intersection of Routes 40 and 522. Unused drilled well, diameter 4 inches, depth 86.2 feet. Measuring point, top of tile pipe, at land surface. Water levels, in feet below land-surface datum, 1946: Oct. 2, 54.03; Dec. 18, 54.30.

Wa-Be 1. A. L. Dayhoff. Latitude 39°38'42", longitude 78°00'29". At Indian Springs, 0.15 mile west of intersection of Routes 40 and 56. Used dug well, diameter 36 inches, depth 37.5 feet. Measuring point, top of stone curbing, 1.00 foot above land surface. Water levels, in feet below land-surface datum, 1946: Oct. 2, 28.89; Dec. 6, 31.43; Dec. 18, 32.28.

Wa-Bh 3. Mel Sword. Latitude 39°39'00", longitude 77°46'31". On Route 40, about 1.7 miles west of Hagerstown. Used drilled well, depth 218 feet. Measuring point, top of concrete curb, 1.00 foot above land surface. Water levels, in feet below land-surface datum, 1946: Oct. 1, 20.81; Dec. 6, 33.68; Dec. 18, 36.64.

Wa-Dh 1. John Murphy. Latitude 39°27'23", longitude 77°45'08". At Sharpsburg, 0.4 mile south and 59° west of intersection of Routes 34 and 65. Used dug well, diameter 36 inches, depth 28.5 feet. Measuring point, top of wood flooring, at land surface. Water levels, in feet below land-surface datum, 1946: Oct. 22, 27.25; Dec. 4, 25.41; Dec. 21, 25.54; Dec. 31, 25.14.

MISSISSIPPI

By P. L. Carroll and T. J. Henderson, Jr.

PROGRAM OF WORK

The observation-well program in Mississippi, begun in 1938, was continued during 1946 in cooperation with the Mississippi State Geological Survey. Water-level measurements and artesian pressures were made in 47 wells in 19 counties in the Mississippi Alluvial Plain, the Gulf Coast area, and selected areas in the northern and eastern sections of the State. Measurements in certain wells were discontinued because these wells had become unsuitable for observation purposes or the measurements were of doubtful character.

Of the wells measured during 1946, four are water-table wells and 43 are artesian wells. The artesian wells were measured by means of a pressure-type recorder gage, float-operated water-stage recorder, or tape line. The seasonal measurements were made with a pressure gage, tape line, or hose. Well Lafayette 37 was measured monthly with a tape line.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Bolivar County

13 (*907, p. 62; 937, p. 66; 945, p. 86; 987, p. 106; 1017, p. 294; 1024, p. 167). Town of Shelby. At Shelby, in SW¼NE¼ sec. 12, T. 24 N., R. 6 W.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 6	14.3	July 9	14.7	Dec. 17	15.1
May 7	14.2	Sept.10	14.6		

18 (*886, p. 281; 907, p. 62; 937, p. 66; 945, p. 86; 987, p. 107; 1017, p. 294; 1024, p. 167). Town of Gunnison. At Gunnison, in NE¼SW¼ sec. 3, T. 24 N., R. 7 W. There was leakage around pump base during each of these measurements.

Water level, in feet above land-surface datum, 1946

Mar. 6	23.8	July 9	21.5	Dec. 17	22.2
May 7	23.0	Sept.10	21.8		

35 (*886, p. 281; 907, p. 62; 937, p. 66; 945, p. 86; 987, p. 107; 1017, p. 294; 1024, p. 167). Town of Beulah. At Beulah, in SW¼NW¼ sec. 27, T. 22 N., R. 8 W.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 6	27.2	Sept. 10	22.6	Dec. 17	22.8
May 7	26.5	Nov. 17	20.4		

50 (*886, p. 231; 907, p. 62; 937, p. 66; 945, p. 86; 987, p. 107; 1017, p. 294; 1024, p. 167). Jones Bayou Gin Association. At O'Reilly, 2.5 miles south of Boyle, in NE¼SE¼ sec. 17, T. 21 N., R. 5 W. Water levels, in feet above land-surface datum, 1946: May 7, 15.1; July 8, 13.8; Sept. 10, 14.9; Dec. 17, 11.2.

Coahoma County

11 (*907, p. 62; 937, p. 66; 945, p. 86; 987, p. 107; 1017, p. 294; 1024, p. 167). Norfleet & Wilsford. At Roseacres, 4.5 miles southeast of Lula, in NW¼SW¼ sec. 7, T. 29 N., R. 2 W. Water levels, in feet above land-surface datum, 1946: Mar. 5, 35.2; July 8, 35.2; Nov. 8, 31.2; Dec. 15, 31.7.

32 (*907, p. 62; 937, p. 66; 945, p. 86; 987, p. 107; 1017, p. 294; 1024, p. 167). Coahoma County Agricultural High School. 4 miles north of Clarksdale, in SW¼NW¼ sec. 36, T. 28 N., R. 4 W.

Water level, in feet above land-surface datum, 1946

Mar. 5	36.7	July 8	36.7	Dec. 16	34.0
May 6	37.0	Nov. 8	33.1		

Forrest County

30 (*907, p. 62; 937, p. 67; 945, p. 86; 987, p. 107; 1017, p. 294; 1024, p. 168). City of Hattiesburg. At Hattiesburg, in SE¼NE¼ sec. 10, T. 4 N., R. 13 W. Equipped with float-type water stage recorder; John L. Arledge, observer.

High and low weekly water level, in feet above land-surface datum, 1946
(From recorder charts)

Week ending	High	Low	Week ending	High	Low
Jan. 5	4.77	2.44	May 18	4.76	4.21
12	a 3.81	3.69	25	4.67	4.43
19	3.78	3.54	June 1	4.62	4.38
26	3.83	3.64	8	5.30	4.31
Feb. 2	4.00	3.66	15	5.96	5.25
9	3.94	3.66	22	5.98	4.59
16	b 3.98	b 3.75	29	4.71	4.48
23	3.93	3.68	July 6	4.85	b 4.58
Mar. 2	4.12	3.77	13	4.98	a 4.72
9	4.16	3.94	20	a 4.77	a 4.77
16	4.26	3.83	27	b 4.80	b 4.66
23	4.37	4.04	Aug. 3	a 4.78	b 4.66
30	4.38	4.08	10	a 4.59	a 4.59
Apr. 6	4.26	3.96	17	4.55	b 4.24
13	4.13	3.90	24	b 4.26	b 4.09
20	3.94	3.81	31	b 4.14	b 3.96
27	4.10	3.87	Sept. 7	4.13	b 3.99
May 4	4.18	4.00	14	3.91	3.77
11	4.20	3.97	21	b 4.20	b 3.79

a Tape measurements.
b Part of record missing or uncertain.

30-Continued.

High and low weekly water level, in feet above land-surface datum, 1946
(From recorder charts)

Week ending	High	Low	Week ending	High	Low
Sept.28	4.35	b 4.19	Nov. 16	4.77	b 4.46
Oct. 5	4.40	4.28	23	b 4.63	4.45
12	4.48	4.28	30	4.65	4.53
19	4.46	4.33	Dec. 7	4.66	4.50
26	4.44	4.28	14	4.63	4.52
Nov. 2	4.52	4.32	21	4.70	4.52
9	4.60	4.36	28	4.92	4.60

a Tape measurements.
b Part of record missing or uncertain.

50 (*907, p. 63; 937, p. 68; 945, p. 87; 987, p. 108; 1017, p. 295; 1024, p. 168). Dixie Tung Empire Corporation. At Dixie Station, 3 miles south of Brooklyn, 20 miles south of Hattiesburg, in NE¼NE¼ sec. 28, T. 1 N., R. 12 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 8	41.78	May 9	41.06	Dec. 19	43.03
May 9	41.48	July 18	40.31		

A16 (*1024, p. 168). United States Army. At Camp Shelby, 8 miles south of Hattiesburg, in SW¼NE¼ sec. 27, T. 3 N., R. 12 W. Equipped with float-type water-stage recorder, no measurements made in 1946.

Grenada County

12 (*886, p. 281; 907, p. 63; 937, p. 68; 945, p. 87; 987, p. 108; 1017, p. 295; 1024, p. 169). Holcomb school. At Holcomb, in SW¼SW¼ sec. 15, T. 22 N., R. 3 E. Leakage at one of cut-off valves at time of each measurement.

Water level, in feet below land-surface datum, 1946

Mar. 5	25.1	July 9	22.4	Dec. 16	24.6
May 7	22.8	Sept.10	22.2		

16 (*886, p. 281; 907, p. 63; 937, p. 68; 945, p. 87; 987, p. 109; 1017, p. 295; 1024, p. 169). Town of Holcomb. At Holcomb, in NW¼NW¼ sec. 22, T. 22 N., R. 3 E.

Water level, in feet below land-surface datum, 1946

Mar. 5	13.28	July 9	12.97	Dec. 16	5.26
May 7	8.98	Sept.10	5.86		

70 (*1024, p. 169). A. C. Riley. 2.0 miles east of Elliott, 8 miles southeast of Grenada, in SW¼SW¼ sec. 18, T. 21 N., R. 6 E Equipped with float-type water-stage recorder; H. L. Neal, observer. Measurements discontinued after May 4.

70-Continued.

Lowest weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	Water level	Week ending	Water level	Week ending	Water level	Week ending	Water level
Jan. 5	18.17	Feb. 2	16.94	Mar. 2	15.54	Mar. 30	15.02
12	18.13	9	16.89	9	15.20	Apr. 6	15.29
19	18.15	16	16.00	16	15.20	13	15.95
26	18.08	23	15.70	23	15.18	May 4	15.85

72 (*1024, p. 170). Lynn Thomas. At Elliott, 7 miles southeast of Grenada, in SW¼NW¼ sec. 14, T. 21 N., R. 5 E. Equipped with float-type water-stage recorder, H. L. Neal, observer.

Lowest weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Jan. 5	34.58	Apr. 6	26.66	June 29	a 21.65	Sept. 21	a 21.90
12	32.08	13	26.56	July 6	a 21.78	28	a 21.49
19	32.83	20	26.95	13	21.38	Oct. 5	a 21.29
26	a 30.50	27	a 27.30	20	21.40	12	a 21.08
Feb. 2	30.13	May 4	28.12	27	a 21.30	19	a 20.96
9	a 30.30	11	a 27.00	Aug. 3	21.60	26	a 20.96
16	a 30.00	18	a 26.78	10	a 21.60	Nov. 2	a 20.94
23	29.48	25	a 25.10	17	.....	9	a 20.95
Mar. 2	a 28.40	June 1	a 24.83	24	.....	16	.....
9	a 28.50	8	a 24.55	31	a 22.00	Dec. 14	a 20.90
16	28.07	15	a 23.50	Sept. 7	a 21.90	21	a 19.65
23	a 26.40	22	a 22.00	14	a 21.80	28	a 19.45
30	26.89						

a Tape measurement.

73 (*1024, p. 170). Carpenter farm. At Elliott, 7 miles southeast of Grenada, in NW¼SW¼ sec. 14, T. 21 N., R. 5 E. Equipped with float-type water-stage recorder; H. L. Neal, observer.

Lowest weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Jan. 5	20.29	Apr. 6	a 19.15	July 6	a 19.21	Oct. 5	a 19.34
12	20.06	13	a 19.08	13	a 19.21	12	19.39
19	a 19.95	20	a 19.15	20	a 19.19	19	a 19.41
26	a 18.83	27	19.12	27	a 19.19	26	a 19.41
Feb. 2	a 19.85	May 4	a 19.15	Aug. 3	a 19.20	Nov. 2	a 19.47
9	a 19.70	11	19.22	10	a 19.20	9	19.52
16	a 19.48	18	a 19.22	17	19.19	16	a 19.54
23	19.50	25	19.23	24	a 19.18	23	a 19.56
Mar. 2	19.42	June 1	a 19.23	31	19.21	30	19.63
9	19.45	8	19.24	Sept. 7	19.26	Dec. 7	a 19.65
16	a 19.47	15	a 19.24	14	19.30	14	a 19.52
23	a 19.10	22	a 19.22	21	a 19.31	21	a 19.45
30	a 19.20	29	a 19.21	28	19.33	28	a 19.61

a Tape measurement.

Harrison County

69 (*1024, p. 171). C. F. Burkhardt. 0.6 mile west of Biloxi, in SW¼SW¼ sec. 25, T. 7 S., R. 10 W. Casing extended after July and tape measurements were made. Water levels, in feet above land-surface datum, 1946: May 9, 2.45; July 18, 3.21; Dec. 22, 2.32; Dec. 28, 5.37.

118 (*886, p. 281; 907, p. 63; 937, p. 68; 945, p. 88; 987, p. 109; 1017, p. 295; 1024, p. 171). City of Gulfport. At Gulfport, in NW¼NE¼ sec. 9, T. 8 S., R. 11 W. Equipped with pressure-type water-stage recorder; John E. Richards.

High and low weekly water level, in feet above land-surface datum, 1945
(From recorder charts)

Week ending	High	Low	Week ending	High	Low
Jan. 5	18.9	17.0	July 6	16.7	13.4
12	18.9	17.0	13	16.9	12.6
19	19.5	14.1	20	16.7	12.7
26	19.7	15.3	27	16.9	13.5
Feb. 2	18.2	17.3	Aug. 3	16.2	10.0
9	18.0	16.4	10	12.1	9.4
16	18.7	16.7	31	14.6	11.3
23	18.4	16.7	Sept. 7	15.0	11.2
Mar. 2	17.9	14.4	14	15.4	11.6
9	19.9	18.0	21	15.7	12.9
16	18.8	17.1	28	16.5	12.9
23	19.5	16.3	Oct. 5	16.9	11.7
30	20.2	17.8	12	15.7	12.1
Apr. 6	19.2	16.6	19	16.6	11.3
13	19.4	17.0	26	15.1	11.2
20	19.1	17.4	Nov. 2	15.0	10.4
May 18	16.9	12.3	9	16.1	12.0
25	17.5	13.8	16	15.5	11.8
June 1	17.7	13.0	23	16.0	11.5
8	16.9	11.6	Dec. 7	16.7	13.2
15	16.5	11.4	14	16.7	12.7
22	16.7	11.7	21	17.4	13.4
29	16.8	11.9	28	17.3	13.2

120 (*1024, p. 172). City of Biloxi. At Biloxi, in NE¼NE¼ sec. 31, T. 7 S., R. 9 W. Equipped with float-type water-stage recorders, Louis E. Wentzell, observer. Measurements discontinued after June 8, 1946.

High and low weekly water level, in feet above land-surface datum, 1946
(From recorder charts)

Jan. 19	7.43	6.28	Apr. 6	7.44	6.68
26	....	....	13	7.29	6.47
Feb. 2	7.00	5.84	20	8.67	6.38
9	6.88	5.96	27	8.52	6.53
16	6.81	5.75	May 4	8.41	6.56
23	6.42	5.05	11	....	....
Mar. 2	6.49	5.30	18	7.16	5.72
9	7.21	5.59	25	7.98	6.05
16	6.82	6.06	June 1	7.71	5.58
23	8.61	6.13	8	6.58	5.17
30	8.56	6.76			

147 (*937, p. 69; 945, p. 88; *987, p. 110; 1017, p. 296; 1024, p. 172). Gulf & Ship Island Railroad. 1.5 miles south of Saucier, 15 miles north of Gulfport, in NE¼NW¼ sec. 18, T. 5 S., R. 11 W. Water levels, in feet below land-surface datum, 1946: Mar. 8, 16.61; May 8, 16.96; July 18, 17.36; Dec. 19, dry.

Hinds County

J19 (*1024, p. 172). Alton T. Ellick. At Jackson, in SE¼NW¼ sec. 24, T. 6 N., R. 1 E.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 15	184.49	May 10	185.20	Sept. 12	188.61
Mar. 10	184.37	July 11	184.89	Dec. 18	190.84

J21 (*1024, p. 172). Virginia-Carolina Chemical Co. At Jackson, in NE¼NW¼ sec. 27, T. 6 N., R. 1 E. Measurements discontinued.

J25 (*1024, p. 173). Country Club of Jackson. At Jackson, in SE¼SW¼ sec. 25, T. 6 N., R. 1 W. Measured weekly by tapeline, beginning Mar. 9, 1946; T. R. Taylor, gage observer.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	189.69	Apr. 27	188.85	June 13	189.75	July 24	190.50
Mar. 9	189.13	May 3	189.35	17	189.95	Aug. 3	190.60
22	188.75	8	189.45	27	190.10	21	191.10
29	188.95	10	189.45	July 1	190.10	Sept. 7	191.60
Apr. 6	189.10	20	189.25	11	190.34	Dec. 7	191.50
13	189.25	27	189.30	11	190.39	18	191.70
13	189.10	June 2	189.25	17	190.50	26	191.40
21	189.25						

J38 (*1024, p. 173). Mississippi Cotton Oil Co. At Jackson, in NE¼SW¼ sec. 4, T. 5 N., R. 1 E. Equipped with float-type water-stage recorder since Jan. 1945; Quitman C. Fortenberry, observer.

Highest weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	Water level	Week ending	Water level	Week ending	Water level	Week ending	Water level
	a108.50	May 25	b112.80	Aug. 10	b121.30	Oct. 12	b120.75
	a107.69	June 1	b114.90	17	b122.80	19	b119.70
	a108.73	8	b116.50	24	b124.75	26	b121.30
Apr. 6	b109.60	22	b120.95	31	b122.60	Nov. 2	b117.90
13	b110.70	29	b119.35	Sept. 7	b124.70	9	a121.30
20	b109.70	July 6	b119.60	14	b125.05	16	a118.10
27	b108.30	13	b121.00		a127.28	23	a116.00
May 4	b109.80	20	b120.90	21	b123.70	Dec. 7	a118.10
11	b109.20	27	b120.50	28	b124.30	14	a119.00
	a110.40	Aug. 3	b119.40	Oct. 5	b124.90	28	121.90
18	b113.90						

a Tape measurement.
b Part of record missing or uncertain.

J46 (*1024, p. 174). Mississippi Power & Light Co. At Jackson, in NE¼NE¼ sec. 10, T. 5 N., R. 1 E. Apparently a pumping test was run Jan. 30.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 15	103.50	Jan. 30	102.92	Jan. 30	104.03	July 11	113.33
30	101.82	30	103.09	30	103.10	Sept.12	117.21
30	102.78	30	103.23	Mar. 9	104.48	Dec. 18	109.14
30	102.67	30	104.21	May 10	104.80		

Holmes County

38 (*945, p. 162; 886, p. 282; 907, p. 63; 937, p. 69; 945, p. 89; 987, p. 110; 1017, p. 296; 1024, p. 174). Town of Tchula. At Tohula, in NW¼NW¼ sec. 8, T. 15 N., R. 1 E.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 7	18.5	July 10	18.6	Dec. 17	16.9
May 8	18.6	Sept.11	16.0		

59 (*845, p. 162; 886, p. 282; 907, p. 63; 937, p. 69; 945, p. 89; 987, p. 110; 1017, p. 296; 1024, p. 174). M. L. Smith. At Thornton, 9 miles south of Tchula, in SE¼NW¼ sec. 8, T. 14 N., R. 1 W. Water levels, in feet above land-surface datum, 1946: Mar. 7, 128.6; May 8, 128.2; July 10, 128.7; Sept. 11, 128.8.

Humphreys County

10 (*886, p. 282; 907, p. 63; 937, p. 69; 945, p. 89; 987, p. 110; 1017, p. 296; 1024, p. 174). Wister Henry. Near north city limits of Belzoni, in NW¼NE¼ sec. 35, T. 16 N., R. 3 W.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 7	103.3	July 10	102.3	Dec. 17	99.7
May 8	98.6	Sept.11	102.0		

18 (*845, p. 162; 886, p. 282; 907, p. 64; 937, p. 69; 945, p. 89; 987, p. 110; 1017, p. 297; 1024, p. 174). J. C. Halbrook. At Belzoni, in NW¼SE¼ sec. 3, T. 15 N., R. 3 W.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 7	7.15	July 10	8.15	Dec. 17	8.27
May 8	7.55	Sept.11	7.67		

56 (*886, p. 282; 907, p. 64; 937, p. 70; 945, p. 889; 987, p. 110; 1017, p. 297; 1024, p. 174). Town of Louise. At Louise, in NE¼NE¼ sec. 15, T. 13 N., R. 4 W.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 7	18.9	July 10	18.2	Dec. 17	18.3
May 8	18.9	Sept.11	19.7		

Jackson County

9 (*907, p. 64; 937, p. 70; 945, p. 89; 987, p. 110; 1017; p. 297; 1024, p. 175). Camp McClellan. 6 miles north of Biloxi, in SE¼NW sec. 35, T. 6 S., R. 9 W. Pressure-type water-stage recorder established on well, Feb. 21, 1946, Edward W. Bullock, observer.

High and low monthly water level, in feet above land-surface datum, 1946
(From recorder charts)

Date	High	Date	Low
Jan. 15	a40.6	Jan. 6	39.8
Feb. 1	a40.6	Feb. 17	40.1
Mar. 13	a40.6	Mar. 5	40.1
Apr. 25	a40.4	Apr. 10	39.7
May 11	a40.6	May 12	39.6

a Part of record missing or uncertain.

Jones County

27 (*907, p. 65; 937, p. 71; 945, p. 90; 987, p. 110; 1017, p. 297; 1024, p. 175). U. S. Dept. of Agriculture starch plant. At Laurel, in NE¼SE¼ sec. 7, T. 8 W., R. 11 W. Equipped with float-type water-stage recorder; Albert A. Holloway, observer.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High	Low	Week ending	High	Low
Jan. 5	136.28	138.25	May 4	136.47	137.65
12	124.10	a137.80	11	122.60	137.34
19	a136.50	a138.79	18	135.70	137.55
26	133.40	139.02	25	134.07	137.50
Feb. 2	a135.78	a140.04	June 1	135.23	137.70
9	a134.22	a138.62	8	136.50	137.77
16	a135.30	a137.50	22	135.23	137.60
23	132.27	137.61	29	132.66	135.20
Mar. 2	135.34	137.40	July 6	128.97	132.65
9	135.12	137.35	13	127.96	129.71
16	135.40	137.55	20	124.32	127.95
23	134.44	137.47	27	119.35	124.31
30	135.12	137.32	Aug. 3	113.41	121.10
Apr. 6	135.14	137.73	10	116.61	118.70
13	135.38	137.67	17	116.40	122.67
20	120.24	137.49	24	a121.63	a126.20
27	136.20	137.80			

a Part of record missing or uncertain.

30 (*907, p. 64; 937, p. 71; 945, p. 89; 987, p. 111; 1017, p. 298; 1024, p. 176). Ed Howard. 5 miles northeast of Laurel, in SE¼SE¼ sec. 11, T. 9 N., R. 11 W. Water levels, in feet below land-surface datum, 1946: Mar. 8, 11.17; May 9, 11.59; July 18, 12.95; Dec. 21, 12.69.

108 (*907, p. 65; 937, p. 72; 945, p. 90; 987, p. 112; 1017, p. 298; 1024, p. 176). Town of Ovett. At Ovett, in NE¼SW¼ sec. 18, T. 6 N., R. 10 W.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 8	3.1	July 18	3.0	Dec. 21	2.8
May 9	2.7	Sept.19	2.8		

Lafayette County

37 (*1024, p. 176). Dr. F. E. Linder. About 1 mile south of Oxford, in NE¼SE¼ sec. 29, T. 8 S., R. 3 W.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Feb. 1	19.95	May 1	19.96	Aug. 1	20.16	Oct. 31	20.78
28	19.93	29	20.15	31	20.14	Nov. 30	20.41
Mar. 30	19.91	July 1	20.07	Sept.30	20.37	Dec. 31	20.22

Leflore County

60 (*845, p. 162; 886, p. 282; 907, p. 66; 937, p. 72; 945, p. 91; 987, p. 112; 1017, p. 298; 1024, p. 176). Mrs. D. B. Jameson. At Schlater, in NW¼SW¼ sec. 31, T. 21 N., R. 1 W.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 5	12.8	July 9	11.1	Dec. 16	11.2
May 7	10.8	Sept.10	12.5		

136 (*845, p. 163; 886, p. 283; 907, p. 66; 937, p. 72; 945, p. 91; 987, p. 112; 1017, p. 298; 1024, p. 176). A. P. Haynes. At Greenwood, in NE¼NW¼ sec. 12, T. 19 N., R. 1 E.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 6	32.6	July 10	29.0	Dec. 16	32.5
May 8	32.3	Nov. 7	31.9		

152 (*907, p. 66; 937, p. 72; 945, p. 91; 987, p. 112; 1017, p. 298; 1024, p. 176). City of Greenwood. At Greenwood, in NE¼NW¼ sec. 15, T. 19 N., R. 1 E. Equipped with pressure-type water-stage recorder; Louis M. Hall, observer.

Highest weekly water level, in feet above land-surface datum, 1946
(From recorder charts)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	17.5	Mar. 23	17.8	June 29	10.7	Oct. 5	12.5
12	17.1	Apr. 6	17.2	July 13	9.2	12	12.5
19	18.2	13	17.2	20	10.9	19	11.9
26	17.7	20	17.0	27	12.3	26	12.5
Feb. 2	17.5	27	a16.9	Aug. 3	13.6	Nov. 2	12.1
9	18.0	May 4	a16.1	10	17.6	9	11.9
16	18.9	11	16.7	24	15.3	16	11.9
23	18.6	June 8	11.5	31	15.0	Dec. 7	a13.4
Mar. 9	a17.5	15	13.3	Sept. 7	a15.3	14	a13.9
16	17.7	22	12.9	28	12.4		

a Part of record missing or uncertain.

Oktibbeha County

2 (*907, p. 66; 945, p. 91 987, p. 113; 1017, p. 299; 1024, p. 177). Mississippi State College. At State College, in NE¼SW¼ sec. 1, T. 18 N., R. 14 E. Equipped with float-type water-stage recorder; Herman E. McElroy, observer.

High and low weekly water level, in feet below land-surface datum, 1946
(From recorder charts)

Week ending	High	Low	Week ending	High	Low
Jan. 5	180.97	181.41	May 25	181.15	181.24
12	180.99	181.21	June 1	181.01	181.07
19	180.91	181.26	8	181.64	181.76
26	a180.86	a181.19	15	181.59	181.81
Feb. 2	180.69	181.05	July 27	a182.19	a182.28
9	180.54	180.93	Aug. 3	182.07	182.24
23	180.67	180.94	10	182.16	182.32
Mar. 2	180.59	180.84	17	a182.30	a182.37
16	a180.62	a180.76	24	a182.24	a182.36
Apr. 6	180.92	181.04	31	a182.33	a182.48
13	180.91	181.21	Sept. 7	a182.48	a182.55
20	a181.01	a181.22	14	182.35	182.47
27	a181.16	a181.35	Nov. 2	181.80	182.03
May 4	181.04	181.40	9	a181.81	a181.90
11	180.83	181.40	16	a181.53	a181.87
18	180.83	181.15	23	a181.37	a181.62

a Part of record missing or uncertain.

Quitman County

21 (*907, p. 67; 937, p. 73; 945, p. 93; 987, p. 114; 1017, p. 300; 1024, p. 178). W. R. Harrington. 8 miles east of Clarksdale, in NE¼NE¼ sec. 8, T. 27 N., R. 2 W.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 5	34.4	July 3	33.0	Dec. 15	30.4
May 6	33.7	Nov. 8	28.2		

32 (*845, p. 163; 886, p. 283; 907, p. 67; 937, p. 73; 945, p. 93; 987, p. 114; 1017, p. 301; 1024, p. 178). City Cafe. At Lambert, in SE¼SE¼ sec. 15, T. 27 N., R. 1 W.

Water level, in feet above land-surface datum, 1946

Mar. 4	6.4	July 8	6.4	Dec. 15	6.1
May 6	6.4	Sept. 9	5.8		

Sunflower County

39 (*907, p. 67; 937, p. 73; 945, p. 93; 987, p. 115; 1017, p. 301; 1024, p. 178). E. L. Coleman and others. At Doddsville, in NW¼SW¼ sec. 28, T. 21 N., R. 3 W. Water levels, in feet above land-surface datum, 1946: Mar. 5, 26.6; July 9, 25.5; Nov. 7, 24.4; Dec. 16, 24.6.

Tallahatchie County

24 (*845, p. 163; 886, p. 283; 907, p. 67; 937, p. 73; 945, p. 93; 987, p. 115; 1017, p. 301; 1024, p. 178). Town of Tutwiler. At Tutwiler, in SW¼SW¼ sec. 20, T. 25 N., R. 2 W.

Water level, in feet above land-surface datum, 1946

Mar. 5	8.5	July 8	7.8	Dec. 16	6.4
May 6	7.8	Sept.10	6.9		

68 (*907, p. 68; 937, p. 73; 945, p. 93; 987, p. 115; 1017, p. 301; 1024, p. 178). Town of Sumner. At Sumner, in NW¼NE¼ sec. 11, T. 24 N., R. 2 W. Equipped with pressure-type water-stage recorder; Walter D. Crump, observer.

High and low monthly water level, in feet above land-surface datum, 1946
(From recorder charts)

Date	High	Date	Low
Jan. 28	a115.7	Jan. 27	65.7
Feb. 15	a110.5	Feb. 15	14.5
Mar. 27	a 61.5	Mar. 28	61.8
Apr. 30	a 64.5	Apr. 13	61.8
May 1	a 65.1	May 21	61.8
June 1	a 62.5	June 11	57.5
Sept.27	a 55.5	Sept.25	54.5
Oct. 17	a 56.0	Oct. 28	3.0
Nov. 30	a 57.0	Nov. 4	5.5
Dec. 3	a 65.5	Dec. 18	55.9

a Part of record missing or uncertain.

171 (*845, p. 163; 886, p. 283; 907, p. 68; 937, p. 73; 945, p. 93; 987, p. 115; 1017, p. 302; 1024, p. 178). Philipp Stave Mill. At Philipp, in NW¼SW¼ sec. 21, T. 22 N., R. 1 E.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 5	15.2	July 9	14.8	Dec. 16	15.1
May 7	14.3	Sept.10	14.9		

Tunica County

17 (*907, p. 68; 937, p. 73; 945, p. 94; 987, p. 116; 1017, p. 302; 1024, p. 178). G. D. Perry, Sr. 3 miles southwest of Tunica, in SW¼SE¼ sec. 7, T. 5 S., R. 11 W.

Water level, in feet above land-surface datum, 1946

Mar. 5	23.3	July 8	22.3	Nov. 8	20.2
May 6	22.3	Sept. 9	19.3	Dec. 15	22.3

Washington County

25 (*886, p. 283; 907, p. 68; 937, p. 74; 945, p. 94; 987, p. 116; 1017, p. 302; 1024, p. 179). Wagner Plantations. 5 miles east of Leland, in SW¼SW¼ sec. 10, T. 18 N., R. 6 W.

Water level, in feet above land-surface datum, 1946

Mar. 6	25.8	July 8	34.1	Dec. 18	32.4
May 8	33.3	Nov. 7	27.3		

65 (*886, p. 283; 907, p. 68; 937, p. 74; 945, p. 94; 987, p. 116; 1017, p. 302; 1024, p. 179). W. D. Atterbury. At Estill, 3 miles north of Hollandale, in NE¼NE¼ sec. 25, T. 16 N., R. 7 W.

Water level, in feet above land-surface datum, 1946

Mar. 7	75.7	Sept.11	73.7	Dec. 17	70.2
May 8	66.9	Nov. 7	68.6		

70 (*886, p. 284; 907, p. 68; 937, p. 74; 945, p. 94; 987, p. 116; 1017, p. 302; 1024, p. 179). Town of Hollandale. At Hollandale, in SW¼SE¼ sec. 6, T. 15 N., R. 6 W. Water levels, in feet below land-surface datum, 1946: May 8, 12.91; July 10, 13.37; Sept. 11, 15.97; Dec. 17, 17.61.

82 (*845, p. 163; 886, p. 284; 1017, p. 302; 1024, p. 179). J. W Jordan. At Murphy, 10 miles east of Hollandale, in NE¼SE¼ sec. 27, T. 15 N., R 5 W. Water level, in feet above land-surfa ce datum, 1946: Mar. 7, 11.3. Measurements discontinued.

Yazoo County

2 (*845, p. 163; 886, p. 284; 987, p. 116; 1017, p. 302; 1024, p. 179). Town of Eden. At Eden, in SE¼SW¼ sec. 8, T. 13 N., R. 1 W.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 7	29.9	July 10	28.0	Dec. 17	28.9
May 8	25.2	Sept. 11	27.8		

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NORTH CAROLINA

By M. J. Mundorff

PROGRAM OF WORK

The program of water-level measurements, begun in 1931, was continued in 1946 in cooperation with the North Carolina Department of Conservation and Development. The systematic survey of the ground-water resources of the State, begun in 1941, was also continued.

Twelve observation wells were added to the program during 1946. All of the wells added are in the Coastal Plain and reflect the elevation of the piezometric surface of water in the Tuscaloosa and Yorktown formations and in Eocene strata. One well measured in 1945 was not measured in 1946, leaving a total of 38 wells which were measured at varying intervals during 1946. Water-stage recorders are used on 9 wells, 2 wells are measured daily, 2 are measured twice weekly, 3 are measured weekly, and 22 are measured monthly.

FLUCTUATIONS OF WATER LEVEL

In North Carolina the fluctuations of the water level correlate with precipitation, but the correlation is complicated by a number of modifying factors.

With normal precipitation the cycle of water-level fluctuations begins with a rise in December or January. The water level generally rises until April after which it begins to decline. The decline continues, interrupted only by rises of short duration caused by summer rainstorms, until the following December or January.

The ground-water level rises in late winter and early spring, in spite of the fact that there is less rainfall during this season than in summer and autumn, because very little water is used by vegetation or lost by evaporation so that a much larger proportion of winter and early spring rainfall reaches the water table. Although the amount of rainfall is larger in the late spring, summer, and autumn months, much of it is used

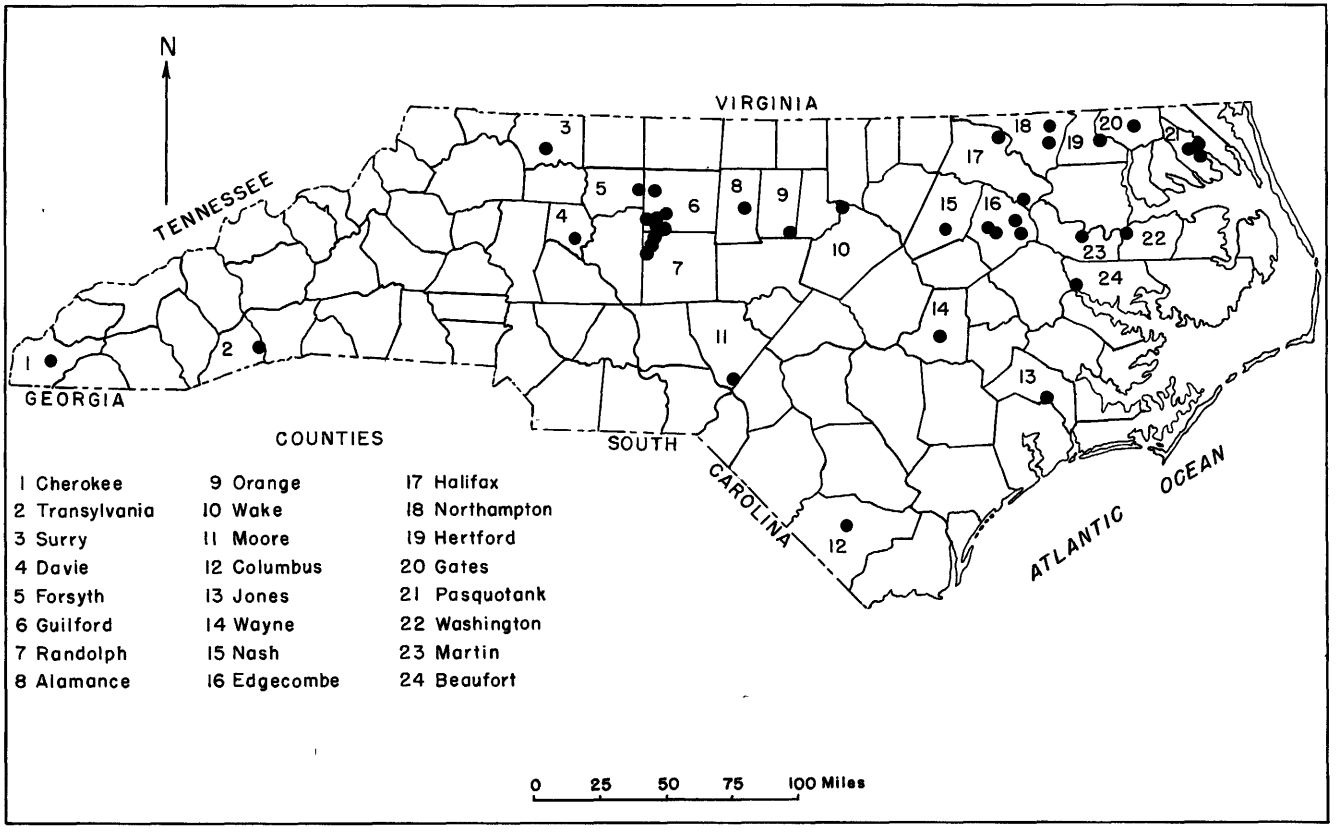

Figure 10.--Map of North Carolina showing location of observation wells, 1946.

by plants, or evaporates, so that very little reaches the water table except during heavy and prolonged rainfall.

The average rainfall in 1946 for all U. S. Weather Bureau stations in the State was 48.96 inches, 0.53 inch below normal. However, the precipitation was not uniformly distributed over the State as the Eastern Division received 4.21 inches more precipitation than normal, whereas the Central and Western Divisions received, respectively, 3.87 inches and 2.63 inches below-normal precipitation.

Fluctuations of the water level in most wells show a reasonably close correlation with rainfall. In the majority of wells the rise in water level occurs within a few days after the rainfall, but in some wells there is a considerable time lag between rainfall and rise in water level. This time lag is especially noticeable in Surry County well 1 and in some of the newly established wells ending in artesian aquifers of the Coastal Plain.

Although total rainfall for the year was close to or above normal throughout most of the State, rainfall for December was deficient in all parts of the State, and averaged only slightly above half the normal amount. This deficiency prevented the wells from making their usual December recovery. Of the 22 wells in which the water level was measured at both the end of 1945 and 1946, 18 showed a net loss, 3 a net gain, and 1 was the same at the end of 1946 as it was at the end of 1945.

All 3 wells showing a net gain in 1946 are in the western part of the State, which had considerably more precipitation in December than the rest of the State.

The following table gives the highest and lowest level reached in each well, the range in fluctuation and the net gain or loss for the year.

Summary of water-level fluctuations, in feet below land-surface datum, in North Carolina, 1946

County	Well No.	Highest level	Date	Lowest level	Date	Range	Net gain (+) or loss (-) during year
Alamance	1	15.68	Feb. 12	25.44	Nov. 17	9.76	-7.44
Beaufort	10-1	9.51	June 26	16.75	May 17	7.24	.....
Columbus	1	.....	.....	.....	.....	....	.....
Cherokee	1	38.11	June 15	42.39	Jan.2-3	4.28	+.49
*Davie	1	15.90	Feb. 10	23.09	Dec. 17	7.19	.....
*Edgecombe	23	4.66	Nov. 29	8.37	Aug. 27	3.71	.....
*Edgecombe	59	29.35	May 14	29.76	Oct. 28	.41	.....
*Edgecombe	59a	23.94	May 14	29.50	Nov. 29	5.56	.....
*Edgecombe	70	38.12	May 14	38.50	Oct. 28	.38	.....
Forsyth	19	42.91	July 28	44.68	Oct. 30	1.77	+.71
*Gates	22	8.82	June 25	9.38	July 26	.56	.....

* Incomplete record.

Summary of water-level fluctuations, in feet below land-surface datum, in North Carolina, 1946--Continued

County	Well No.	Highest level	Date	Lowest level	Date	Range	Net gain (+) or loss (-) during year
Guilford	2	28.35	Feb. 24	28.42	Dec. 31	3.07	-0.99
Guilford	4	28.35	July 28	31.41	Oct. 30	3.06	-1.10
Guilford	7	19.65	Apr. 28	23.15	Sept.29	3.50	-2.32
Guilford	8	21.30	Feb. 24	28.55	Dec. 30	7.25	-3.95
Guilford	12	29.50	Mar. 27	33.70	Jan. 29	4.20	.00
Guilford	14	10.55	Feb. 24	16.96	Dec. 30	6.41	-1.56
Halifax	1	2.65	July 11	7.60	Dec. 31	4.95	-3.86
*Halifax	150	17.78	May 14	19.70	Nov. 29	1.92	.....
*Hertford	14	27.98	Dec. 29	28.30	May 15	.32	.....
Jones	1	.6	July 5	6.9	Dec. 13	6.3	-2.0
*Martin	2c	47.60	Aug. 28	48.91	June 26	1.31	.....
Moore	1	32.95	Jan. 1	38.24	Dec. 31	5.39	-5.34
Nash	1	.50+	Jan. 19	12.74	Nov. 16	12.24+	-6.64
Northampton	40	32.59	June 25	34.13	Oct. 28	1.54	.....
Northampton	82	12.21	May 15	13.33	Oct. 28	1.12	.....
Orange	1	38.48	Mar. 29	41.18	Dec. 28	2.70	-.51
*Pasquotank	31T	.53	Feb. 20	3.28	Oct. 28	2.75	.....
*Pasquotank	33T	1.38	Mar. 31	6.05	Oct. 28	4.67	.....
Pasquotank[a]	200	22.17	Oct. 29	35.60	July 26	13.43	.....
Randolph	20	20.88	Mar. 27	24.56	Jan. 29	3.68	-.06
Randolph	25	23.55	Feb. 24	28.78	Dec. 30	5.23	-.28
Randolph	27	11.48	May 26	25.60-	(b)	14.12+	-7.50+
Surry	1	40.36	Aug. 28	43.16	Mar. 3	2.80	+1.39
Transylvania	1	27.65	May 28	33.57	Jan. 2	5.92	+.81
Wake	1	.....	.....	.....	.....	....	.....
Washington	1	10.86	Sept.30	14.12	July 3	3.26	-.20
Wayne	1	.50	Jan. 5	3.62	Dec. 28	3.12	-2.12

* Incomplete record.
a Affected by pumping nearby wells.
b Dry Nov. 30 and Dec. 30.

Wells in the Piedmont section of North Carolina are all dug wells and obtain their water from the subsoil formed by weathering or crystalline rocks such as granite, gneiss, schist, and slate. The water in these wells is not under pressure and the fluctuation of the water in them reflects fluctuations of the water table. The water level in all of these wells rose during the first 2 or 3 months of 1946 and, in some of them, continued to rise until June or July. The water level declined in most wells during the last 6 months of the year.

Wells in the Coastal Plain include both shallow dug wells and deeper wells entering artesian aquifers. The shallow dug wells respond very quickly to precipitation, usually showing a rise after every rainfall of any consequence. The wells in artesian aquifers, being some distance from the area of recharge, generally do not show a correlation with individual rainfalls but do show a seasonal trend. These observation wells in artesian aquifers were established in May 1946. The water levels in five wells had been measured previously in 1942. Of these five the water level in three had risen considerably between the measurement in 1942 and the first

measurement in 1946, in one it had declined and in one it was the same. The water level in the majority of the wells reached its lowest level in October and November. In all but one well it had started to rise by the end of December.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Alamance County

1 (*777, p. 134; 817, p. 216; 840, p. 305; 845, p. 336; 886, p. 516; 907, p. 72; 937, p. 76; *945, p. 103; *987, p. 123; 1017, p. 311; 1024, p. 187). Governor Holt well. J. W. Thompson. On south side of Haw River-Graham highway, 0.25 mile west of Haw River.

Mean daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	17.14	16.31	.....	19.54	21.00	20.99	21.62	22.73	23.71	24.92	25.10	24.50
2	17.37	16.28	.....	19.61	21.03	21.04	21.70	22.77	23.75	24.96	25.17	24.48
3	17.69	16.49	.....	19.65	21.04	21.14	21.79	22.84	23.79	25.01	25.22	24.50
4	17.98	16.75	.....	19.72	21.06	21.23	21.87	22.87	23.82	25.06	25.24	24.54
5	18.20	16.97	.....	19.77	21.08	21.30	21.94	22.90	23.88	25.12	25.27	24.55
6	18.40	17.10	.....	19.91	21.12	21.37	21.99	22.92	23.94	25.17	25.29	24.55
7	18.59	17.23	.....	20.05	21.14	21.42	22.04	22.96	23.99	25.22	25.30	24.58
8	18.56	17.46	.....	20.10	21.15	21.46	22.10	23.01	24.05	25.25	25.29	24.61
9	18.31	17.62	.....	20.15	21.20	21.53	22.17	23.05	24.11	25.27	25.28	24.64
10	18.19	16.85	.....	20.21	21.26	21.62	22.12	23.08	24.14	25.22	25.29	24.65
11	18.22	15.69	.....	20.28	21.30	21.69	21.90	23.14	24.19	25.12	25.31	24.65
12	18.32	15.68	.....	20.31	21.35	21.73	21.82	23.20	24.22	25.02	25.33	24.65
13	18.45	15.77	.....	20.35	21.40	21.79	21.80	23.24	24.23	24.97	25.33	24.65
14	18.63	15.83	.....	20.39	21.47	21.87	21.80	23.26	24.24	24.94	25.35	24.66
15	18.74	15.94	.....	20.43	21.50	21.94	21.84	23.30	24.26	24.93	25.37	24.68
16	18.88	16.20	.....	20.46	21.49	21.99	21.90	23.34	24.30	24.92	25.41	24.71
17	18.99	16.37	.....	20.50	21.45	22.03	21.97	23.36	24.34	24.92	25.44	24.75
18	19.07	.....	19.07	20.52	21.32	22.04	22.03	23.37	24.39	24.92	25.35	24.78
19	19.05	.....	19.10	20.55	21.23	22.01	22.10	23.41	24.43	24.93	25.17	24.80
20	18.77	.....	19.13	20.57	21.19	21.47	22.18	23.47	24.46	24.97	25.02	24.80
21	18.44	.....	19.07	20.60	21.04	21.22	22.27	23.53	24.48	25.00	24.91	24.79
22	18.09	.....	19.07	20.68	20.92	21.15	22.35	23.61	24.52	25.03	24.81	24.75
23	17.80	.....	19.06	20.71	20.87	21.13	22.41	23.66	24.55	25.05	24.71	24.70
24	17.62	.....	19.07	20.73	20.85	21.13	22.47	23.65	24.59	25.09	24.64	24.64
25	17.55	.....	19.11	20.74	20.85	21.13	22.51	23.64	24.61	25.11	24.59	24.59
26	17.58	.....	19.15	20.75	20.84	21.17	22.54	23.63	24.64	25.13	24.56	24.57
27	17.43	.....	19.19	20.77	20.84	21.25	22.59	23.62	24.68	25.13	24.53	24.56
28	17.25	.....	19.26	20.84	20.82	21.35	22.62	23.61	24.75	25.12	24.50	24.55
29	17.21		19.29	20.91	20.83	21.45	22.64	23.62	24.83	25.09	24.50	24.55
30	17.26		19.33	20.96	20.88	21.54	22.66	23.64	24.90	25.08	24.50	24.55
31	17.00		19.44		20.94		22.69	23.66		25.07		24.58

Beaufort County

10-1. Town of Washington. At Washington, 50 yards northwest of rear of power and water plant in well field. Jetted well, diameter 3 inches, depth 100 (?) feet, ending in the Castle Hayne Marl. Well is not pumped. Measuring point, top of reducing bushing on casing, about 1.05 feet above land-surface datum.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level
May 17	16.75	July 27	12.74	Oct. 1	11.61
June 26	9.51	Aug. 28	9.87	29	10.82

Cherokee County

1 (*987, p. 124; 1017, p. 312; 1024, p. 188). Elliott well. At Murphy, in rear of First Baptist Church.

Water level, in feet below land-surface datum, 1946

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	42.37	40.64	39.22	38.81	38.53	38.21	38.35	39.02	39.77	40.43	41.06	41.57
2	42.39	40.67	39.20	38.80	38.50	38.17	38.35	39.04	39.81	40.48	41.06	41.58
3	42.39	40.68	39.19	38.76	38.45	38.18	38.37	39.08	39.82	40.50	41.09	41.63
4	42.38	40.65	39.18	38.73	38.40	38.19	38.38	39.09	39.84	40.54	41.12	41.64
5	42.34	40.61	39.17	38.73	38.44	38.21	38.43	39.10	39.86	40.56	41.16	41.64
6	42.23	40.54	39.14	38.72	38.48	38.21	38.44	39.11	39.88	40.60	41.18	41.64
7	41.92	40.40	39.11	38.71	38.47	38.20	38.46	39.12	39.90	40.60	41.19	41.64
8	41.94	40.42	39.05	38.67	38.48	38.18	38.48	39.16	39.93	40.57	41.17	41.65
9	41.80	40.34	38.95	38.64	38.50	38.18	38.49	39.21	39.95	40.48	41.19	41.67
10	41.71	39.82	39.01	38.61	38.51	38.19	38.50	39.23	39.98	40.54	41.21	41.68
11	41.98	39.70	39.05	38.63	38.49	38.20	38.53	39.24	40.00	40.61	41.22	41.68
12	41.49	39.82	39.06	38.64	38.30	38.17	38.56	39.27	40.01	40.63	41.26	41.68
13	41.72	39.86	39.03	38.66	38.36	38.16	38.60	39.30	40.04	40.71	41.29	41.69
14	41.73	39.80	38.97	38.66	38.44	38.15	38.62	39.34	40.08	40.75	41.30	41.72
15	41.48	39.80	38.94	38.63	38.45	38.11	38.65	39.38	40.11	40.78	41.32	41.73
16	41.42	39.77	38.93	38.59	38.29	38.16	38.67	39.40	40.14	40.79	41.35	41.74
17	41.38	39.71	38.90	38.46	38.21	38.18	38.70	39.42	40.17	40.78	41.37	41.75
18	41.33	39.64	38.92	38.50	38.24	38.18	38.72	39.41	40.20	40.77	41.38	41.76
19	41.27	39.55	38.87	38.55	38.28	38.17	38.73	39.42	40.21	40.79	41.41	41.78
20	41.21	39.53	38.89	38.56	38.32	38.19	38.76	39.45	40.21	40.84	41.41	41.80
21	41.15	39.53	38.93	38.57	38.36	38.22	38.77	39.47	40.22	40.87	41.42	41.77
22	41.14	39.47	38.92	38.58	38.39	38.25	38.78	39.50	40.25	40.90	41.44	41.79
23	41.12	39.38	38.90	38.54	38.40	38.27	38.79	39.53	40.29	40.90	41.47	41.84
24	41.04	39.33	38.88	38.51	38.38	38.29	38.83	39.55	40.30	40.91	41.48	41.86
25	41.00	39.30	38.88	38.45	38.34	38.29	38.86	39.57	40.33	40.92	41.48	41.86
26	40.95	39.26	38.86	38.40	38.24	38.30	38.88	39.60	40.34	40.93	41.49	41.88
27	40.94	39.23	38.86	38.47	38.22	38.33	38.90	39.62	40.36	40.98	41.50	41.89
28	40.93	39.22	38.83	38.52	38.23	38.34	38.94	39.65	40.40	41.03	41.53	41.88
29	40.90		38.56	38.53	38.24	38.35	38.95	39.68	40.40	41.05	41.56	41.88
30	40.85		38.58	38.53	38.24	38.36	38.97	39.70	40.41	41.06	41.56	41.89
31	40.70		38.73		38.23		38.98	39.71		41.06		41.88

Columbus County

1 (*1017, p. 312; 1024, p. 188). Mrs. C. W. Maultsby. In Whiteville.

Mean daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	....	5.76	4.90	6.41	7.75	3.46	....	6.83	7.19	6.42
2	....	....	5.78	5.06	6.48	7.75	3.19	....	6.88	7.16	6.51
3	2.12	....	5.84	5.18	6.56	7.65	3.51	....	6.96	6.37	6.59
4	2.36	....	5.94	4.62	6.64	6.47	3.80	....	7.04	5.32	6.65
5	2.62	....	6.04	3.57	6.70	4.03	4.06	....	7.09	5.13	6.71
6	2.74	....	6.13	3.69	6.76	1.98	4.31	....	7.15	5.22	6.78
7	2.89	....	6.21	3.95	6.84	2.09	4.53	....	7.21	5.35	6.84
8	3.00	5.42	6.30	4.22	6.91	2.62	4.72	....	7.25	5.49	6.90
9	3.22	5.46	6.34	4.48	6.97	3.02	4.87	....	7.28	5.60	6.98
10	3.32	5.52	6.33	4.68	7.03	.40	5.07	....	7.28	5.69	7.04
11	3.49	5.60	6.32	4.86	7.10	1.30	5.22	....	7.24	5.79	7.08
12	3.63	5.67	6.28	5.05	7.17	1.94	5.36	....	7.17	5.90	7.12
13	3.68	5.73	6.26	5.21	7.24	1.68	5.48	....	7.12	6.01	7.16
14	....	5.79	6.25	5.32	7.31	2.25	5.61	....	7.07	6.13	7.21
15	....	5.85	6.27	5.42	7.34	2.75	5.74	....	7.02	6.25	7.25
16	3.16	5.93	6.32	5.50	7.32	3.09	5.88	....	7.00	6.39	7.29
17	1.76	5.99	5.12	5.51	7.32	3.41	6.00	....	6.99	6.49	7.32
18	.91	6.00	2.45	5.46	7.31	3.76	6.13	....	6.99	6.56	7.36
19	1.18	5.94	2.76	....	7.31	4.06	6.18	5.97	7.01	6.59	7.40
20	1.61	5.74	3.24	....	7.31	4.31	6.20	6.05	7.05	6.59	7.42
21	1.98	5.50	3.72	....	7.32	4.54	4.88	6.12	7.09	6.57	7.32
22	....	5.34	4.03	5.74	7.35	4.72	2.55	6.20	7.13	6.36	7.09
23	....	5.31	4.25	5.78	7.39	4.89	2.44	6.28	7.18	6.10	6.72

1--Continued.

Mean daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
24	....	5.36	4.47	5.85	7.43	5.12	2.37	6.35	7.23	6.02	6.37
25	....	5.44	4.66	5.94	7.48	5.29	2.03	6.42	7.27	6.03	6.16
26	....	5.52	4.45	6.01	7.53	5.47	2.19	6.49	7.30	6.10	6.14
27	....	5.62	4.16	6.06	7.58	5.64	2.79	6.57	7.31	6.17	6.18
28	....	5.70	4.32	6.10	7.65	5.80	3.29	6.64	7.29	6.26	6.25
29	3.49	5.73	4.52	6.17	7.71	5.97	3.68	6.70	7.25	6.31	6.32
30	....	5.73	4.72	6.24	7.74	6.10	3.94	6.76	7.22	6.37	6.39
31	....	5.75		6.33		5.80	....		7.21		6.49

Davie County

1 (*777, p. 131; 817, p. 214; 840, p. 303; 845, p. 334; 886, p. 514; 907, p. 70; 937, p. 78; *945, p. 103; *987, p. 125; 1017, p. 313; 1024, p. 189). Kurfee well. At Mocksville, 1 block south of courthouse, on U. S. Highways 64 and 601.

Mean daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	16.79	16.53	17.12	17.71	17.33	18.50	19.60	20.52	21.49	22.25	22.76
2	.....	16.79	16.48	17.10	17.70	17.34	18.55	19.62	20.54	21.52	22.26	22.81
3	.....	16.78	16.48	17.07	17.60	17.42	18.59	19.64	20.59	21.57	22.28	22.85
4	.....	16.79	16.51	17.08	17.62	17.46	18.65	19.67	20.64	21.60	22.31	22.85
5	.....	16.78	16.52	17.13	17.59	17.52	18.69	19.71	20.68	21.62	22.35	22.85
6	.....	16.74	16.55	17.17	17.57	17.56	18.71	19.71	20.70	21.62	22.38	22.86
7	.....	16.74	16.56	17.19	17.52	17.58	18.75	19.72	20.72	21.64	22.39	22.88
8	.....	16.84	16.56	17.20	17.50	17.61	18.78	19.77	20.76	21.64	22.39	22.90
9	.....	16.85	16.56	17.21	17.52	17.66	18.80	19.80	20.79	21.64	22.42	22.92
10	.....	15.90	16.59	17.26	17.54	17.73	18.85	19.82	20.81	21.67	22.47	22.94
11	.....	16.04	16.67	17.30	17.54	17.76	18.89	19.86	20.83	21.71	22.49	22.94
12	.....	16.14	16.76	17.30	17.53	17.78	18.92	19.91	20.88	21.72	22.52	22.94
13	.....	16.06	16.79	17.35	17.57	17.80	18.97	19.95	20.83	21.77	22.56	22.96
14	.....	15.99	16.79	17.36	17.61	17.86	19.02	19.98	20.96	21.81	22.56	23.00
15	.....	16.14	16.78	17.37	17.60	17.92	19.06	20.02	21.00	21.84	22.59	23.03
16	17.13	16.28	16.85	17.37	17.56	17.96	19.12	20.05	21.04	21.87	22.63	23.06
17	17.13	16.30	16.88	17.39	17.51	17.98	19.16	20.06	21.07	21.87	22.57	23.09
18	17.08	16.37	16.84	17.41	17.37	18.00	19.19	20.07	21.10	21.89	22.55	22.92
19	17.07	16.31	16.84	17.43	17.33	18.04	19.22	20.11	21.13	21.96	22.62	23.05
20	17.12	16.26	16.87	17.44	17.29	18.09	19.26	20.16	21.14	22.02	22.62	23.08
21	17.10	16.37	16.88	17.50	17.24	18.12	19.30	20.21	21.17	22.03	22.62	22.93
22	17.14	16.34	16.89	17.53	17.24	18.17	19.33	20.25	21.22	22.05	22.58	22.99
23	17.18	16.31	16.91	17.52	17.24	18.23	19.37	20.27	21.27	22.06	22.63	23.06
24	17.15	16.31	16.92	17.51	17.22	18.26	19.42	20.31	21.29	22.08	22.66	23.06
25	17.12	16.40	16.93	17.50	17.19	18.28	19.45	20.33	21.30	22.08	22.68	23.03
26	17.14	16.43	16.94	17.49	17.17	18.31	19.49	20.35	21.32	22.02	22.68	23.03
27	17.24	16.45	16.96	17.58	17.16	18.36	19.52	20.36	21.36	22.13	22.69	23.03
28	17.30	16.50	16.98	17.65	17.17	18.40	19.54	20.39	21.40	22.18	22.73	23.03
29	17.31		16.99	17.67	17.23	18.44	19.55	20.42	21.42	22.20	22.74	23.01
30	17.30		16.99	17.70	17.28	18.48	19.56	20.44	21.43	22.21	22.76	23.00
31	16.71		17.07		17.31		19.58	20.48		22.23		23.03

Edgecombe County

23. John Lane. At Speed, 8 miles northeast of Tarboro, about 50 yards north of railroad and 100 feet west of State Highway 122, and about 25 feet north of back end of Republic Oil station. Equipped with pitcher pump. Elevation about 55 feet. Drilled well, diameter 4¼ inches, depth 100 feet, ending in Tuscaloosa sand. Measuring point, top of 4¼-inch casing, 0.85 foot above land-surface datum.

23--Continued.

Water level, in feet below land-surface datum, 1942, 1946

Date	Water level	Date	Water level	Date	Water level
Jan. 16, 1942	3.02	July 26, 1946	6.23	Oct. 28, 1946	5.13
May 14, 1946	4.79	Aug. 27	8.37	Nov. 29	4.66
June 24	5.42	Sept.30	5.45	Dec. 29	6.67

59. I. W. Calhoun. About 9 miles east of Rocky Mount, 200 feet south of U. S. Highway 64 and 300 feet west of dirt road, 30 feet west of house, in a white frame house about 8 by 10-feet. Elevation about 102 feet. Drilled well, diameter 4¼ inches, depth 164 feet, ending in Tuscaloosa sand. Measuring point, top of 4¼-inch casing, about 0.7 foot above land-surface datum.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 14	29.35	July 26	29.58	Sept.30	29.58	Nov. 29	29.66
June 24	29.45	Aug. 27	29.61	Oct. 28	29.76	Dec. 29	29.69

59a. I. W. Calhoun. About 9 miles east of Rocky Mount, 150 feet south of U. S. Highway 64 and 600 feet west of dirt road, 25 feet north of stables. Brick wall about 5 by 8 feet and 3.2 feet high covered with removable gable roof. Elevation about 102 feet. Dug well, diameter 24 inches, depth 45 feet, ending in sand of the Yorktown formation. Measuring point, 2-by 10-inch wood plate on top of brick wall, 3.2 feet above land-surface datum.

Water level, in feet below land-surface datum, 1946

May 14	23.94	July 26	24.04	Sept.30	27.60	Nov. 29	29.50
June 24	24.36	Aug. 27	26.46	Oct. 28	29.16	Dec. 29	27.48

70. W. Z. Wilson. At Coakley, about 7 miles northeast of Tarboro, on northeast corner of road intersection, about 25 feet east of north-south road and 75 feet north of east-west road, in front of abandoned service station. Equipped with deep-well hand pump (broken and not used). Elevation about 81 feet. Drilled well, diameter 4¼ inches, reported depth 230 feet, measured depth 73 feet, ending in Tuscaloosa sand. Measuring point, top of 4¼-inch casing, 0.3 foot above land-surface datum.

Water level, in feet below land-surface datum, 1942, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 19, 1942	38.12	July 26, 1946	38.28	Oct. 28, 1946	38.50
May 14, 1946	38.12	Aug. 27	38.31	Nov. 29	38.45
June 24	38.42	Sept.30	38.36	Dec. 29	38.49

Forsyth County

19 (*777, p. 138; *817, p. 218; *840, p. 309; 845, pp. 340, 341; 886, p. 521; 907, p. 77; 937, p. 81; *945, p. 104; *987, p. 125; 1017, p. 313; 1024, p. 189). W. C. Michael. On High Point-Kernersville highway, 1 mile south of Kernersville and 40 feet west of highway.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	43.79	Apr. 28	43.13	July 28	42.91	Oct. 30	44.68
Feb. 24	43.51	May 26	43.32	Aug. 25	43.03	Nov. 30	43.79
Mar. 27	43.55	June 23	43.35	Sept.30	43.09	Dec. 30	44.20

Gates County

22. C. E. Lang. About 3 miles northeast of Gatesville and 0.3 mile northeast of prison camp, about 150 feet east of back end of house. Elevation about 32 feet. Jetted well, diameter 3 inches, depth 380 feet, ending in sand of Eocene (?) or Cretaceous (?) age. Measuring point, top of 3-inch casing, 1.0 foot above land-surface datum.

Water level, in feet above land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 15	9.24	July 26	9.38	Sept.30	8.90	Nov. 29	8.98
June 25	8.82	Aug. 27	8.89	Oct. 28	9.12	Dec. 29	8.95

Guilford County

2 (*777, p. 138; *817, p. 219; *840, p. 308; 845, p. 339; 886, p. 519; 907, p. 78; 937, p. 81; *945, p. 104; *987, p. 126; 1017, p. 314; 1024, p. 190). Lindale Dairy Corporation. About 1.5 miles northwest of High Point city limits and 0.5 mile north of U. S. Highway 70.

Mean daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	27.43	.....	.....	25.66	25.97	25.82	26.04	26.42	26.77	27.13	27.55	27.93
2	27.51	.....	.....	25.54	25.91	25.79	26.04	26.44	26.77	27.15	27.56	28.01
3	27.48	.....	.....	25.51	25.88	25.86	26.09	26.45	26.79	27.19	27.58	28.06
4	27.43	.....	25.50	25.52	25.93	25.86	26.14	26.46	26.83	27.21	27.61	28.04
5	27.35	26.10	25.54	25.59	25.94	25.90	26.15	26.45	26.85	27.23	27.66	.....
6	27.30	.....	25.54	25.61	25.95	25.90	26.10	26.43	26.84	27.21	27.65	.....
7	27.29	.....	25.50	25.62	25.90	25.86	26.12	26.45	26.83	.....	27.57	.....
8	27.23	.....	25.47	25.57	25.96	25.86	26.15	26.52	26.85	.....	27.59	.....
9	27.09	.....	25.49	25.61	26.02	25.88	26.13	26.51	26.85	.....	27.68	.....
10	27.04	.....	25.54	25.70	26.03	25.97	26.16	26.48	26.82	.....	27.70	.....
11	27.08	.....	25.60	25.71	25.98	25.92	26.18	26.53	26.81	.....	27.72	.....
12	27.02	25.80	25.63	25.63	25.97	25.87	26.18	26.57	26.87	.....	27.76	.....
13	27.02	.....	25.59	25.75	26.09	25.88	26.22	26.60	26.91	.....	27.75	.....
14	.....	.....	25.49	25.76	26.10	25.94	26.25	26.63	26.92	.....	27.76	.....
15	.....	.....	25.47	25.74	26.06	25.99	26.23	26.65	26.94	.....	27.81	.....
16	.....	.....	25.54	25.70	26.01	26.01	26.28	26.63	26.95	.....	27.83	.....
17	.....	.....	25.54	25.78	25.98	25.94	26.29	26.57	26.97	27.26	27.83	.....
18	26.83	.....	25.50	25.78	25.98	25.91	26.28	26.54	26.98	27.24	27.85	.....
19	26.86	.....	25.53	25.79	26.06	25.95	26.28	.....	26.97	27.35	27.85	.....
20	26.87	.....	25.57	25.77	26.04	25.96	26.29	.....	26.91	27.39	27.83	.....
21	26.73	.....	25.58	25.90	26.02	25.96	26.29	.....	26.94	27.43	27.84	.....
22	26.78	.....	25.52	25.85	26.10	26.01	26.29	.....	27.01	27.44	27.84	.....
23	26.80	.....	25.52	25.76	26.07	26.05	26.32	.....	27.04	27.43	27.88	.....
24	26.56	25.35	25.53	25.73	26.00	26.02	26.36	.....	27.04	27.42	27.89	.....
25	.....	.....	25.52	25.68	25.92	26.01	26.35	26.71	27.04	27.37	27.88	.....
26	.....	.....	25.48	25.68	25.87	26.04	26.37	26.71	27.06	27.45	27.89	.....
27	.....	.....	25.52	25.84	25.82	26.05	26.41	26.71	27.10	27.52	27.93	.....
28	.....	.....	25.50	25.94	25.83	26.06	26.44	26.72	27.11	27.54	27.96	.....
29	.....		25.42	25.93	25.91	26.07	26.42	26.72	27.07	27.53	27.96	.....
30	.....		25.44	25.96	25.91	26.05	26.40	26.73	27.06	27.52	27.98	28.40
31	.....		25.63		25.87		26.39	26.75		27.53		28.42

4 (*777, p. 138; *817, p. 218; *840, p. 308; 845, p. 339; 886, p. 518; 907, p. 78; 937, p. 81; *945, p. 105; *987, p. 126; 1017, p. 314; 1024, p. 190). W. O. Atkins. About 0.3 mile west of Colfax and 300 feet south of U. S. Highway 401.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	29.95	Apr. 28	28.40	July 28	28.35	Oct. 30	31.41
Feb. 24	31.15	May 26	30.13	Aug. 25	28.54	Nov. 30	30.32
Mar. 27	31.07	June 23	30.05	Sept.29	29.20	Dec. 30	30.80

5 (*777, p. 138; *817, p. 218; *840, p. 308; 845, p. 339; 886, p. p. 518; 907, p. 78; 937, p. 82; *945, p. 105). Isaac Tonkins. Near Groomtown, about 6 miles southwest of Greensboro. No measurements made in 1946.

7 (*777, p. 138; *817, p. 218; *840, p. 308; 845, p. 339; 886, p. 518; 907, p. 78; 937, p. 82; *945, p. 105; *987, p. 126; 1017, p. 315; 1024, p. 191). E. J. Welch. At 1403 E. Lexington Avenue, High Point, 80 feet north of street.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	20.72	Apr. 28	19.65	July 28	21.67	Oct. 30	22.81
Feb. 24	21.00	May 26	20.10	Aug. 25	22.16	Nov. 30	22.89
Mar. 27	20.85	June 23	20.10	Sept.29	23.15	Dec. 30	22.99

8 (*777, p. 138; 817, p. 218; *840, p. 308; 845, p. 339; 886, p. 518; 907, p. 78; 937, p. 82; *945, p. 105; *987, p. 127; 1017, p. 315; 1024, p. 191). Welch Place. At 1304 E. Lexington Avenue, High Point, about 800 feet west of well 7.

Water level, in feet below land-surface datum, 1946

Jan. 29	24.91	Apr. 28	26.10	July 28	26.52	Oct. 30	27.85
Feb. 24	21.30	May 26	26.18	Aug. 25	26.60	Nov. 30	28.29
Mar. 27	23.15	June 23	26.38	Sept.29	26.69	Dec. 30	28.55

12 (*777, p. 138; *817, p. 218; *840, p. 308; 845, p. 340; 886, p. 518; 907, p. 78; 937, p. 82; *945, p. 106; *987, p. 147; 1017, p. 315; 1024, p. 191). John Blair Estate. 113 S. Tate Street, South High Point, 80 feet northeast of Street.

Water level, in feet below land-surface datum, 1946

Jan. 29	33.70	Apr. 28	31.72	July 28	32.70	Oct. 30	33.14
Feb. 24	29.80	May 26	31.94	Aug. 25	32.30	Nov. 30	33.47
Mar. 27	29.50	June 23	32.68	Sept.29	32.72	Dec. 30	33.68

14 (*777, p. 138; *817, p. 218; *840, p. 308; 845, p. 340; 886, p. 518; 907, p. 79; *937, p. 82; *945, p. 106; *987, p. 127; 1017, p. 315; 1024, p. 191). Clodfelter Dairy. At southeastern corner of High Point, 0.5 mile east of U. S. Highway 311, near Springfield Church.

Water level, in feet below land-surface datum, 1946

Jan. 29	15.53	Apr. 28	12.90	July 28	14.04	Oct. 30	16.26
Feb. 24	10.55	May 26	13.64	Aug. 25	15.14	Nov. 30	16.64
Mar. 27	12.87	June 23	13.95	Sept.29	15.80	Dec. 30	16.96

15 (*777, p. 138; *817, p. 218; *840, p. 308; 845, p. 340; 886, p. 518; 907, p. 79; 937, p. 82; 945, p. 106). C. C. Robbins. About 0.3 mile south of High Point corporation limits, 110 feet west of U. S. Highway 311. No measurements made in 1946.

Halifax County

1 (*777, p. 133; 817, p. 213; 840, p. 302; 845, p. 333; 886, p. 513; 907, p. 69; 937, p. 75; *945, p. 106; *987, p. 127; 1017, p. 315; 1024, p. 191). Freuler well. At Roanoke Rapids, 500 feet north of U. S. Highway 158 and 0.5 mile west of Seaboard Railway station.

Mean daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	....	4.09	3.96	3.98	4.36	3.32	4.35	4.70	5.92	6.01	....	7.11
2	....	4.18	3.89	3.93	4.30	3.42	3.57	....	5.94	6.10	....	7.25
3	....	4.27	4.00	4.03	4.35	3.67	3.59	....	5.98	6.17	....	7.25
4	....	4.36	4.10	4.10	4.19	3.70	3.74	....	6.02	6.21	....	....
5	4.30	4.33	4.18	4.21	4.15	3.85	3.83	....	6.05	6.23	....	....
6	4.40	4.21	4.22	4.35	4.20	3.99	3.90	....	6.06	6.21	....	....
7	4.50	4.29	4.25	4.40	4.18	4.04	4.00	....	6.08	6.25	....	....
8	4.56	4.48	4.10	4.37	4.31	4.14	4.14	....	6.13	6.22	....	....

1--Continued.

Mean daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
9	4.55	4.40	4.13	4.40	4.42	4.27	3.53	5.00	6.17	6.13	....	....
10	4.58	3.83	4.30	4.52	4.51	4.43	2.76	5.03	6.20	6.21	....	....
11	4.72	3.30	4.37	4.58	4.52	4.45	2.65	4.98	6.07	6.29	7.00	....
12	4.68	3.35	4.45	4.38	4.59	4.47	2.73	5.10	6.05	6.33	....	....
13	4.80	3.31	4.44	4.46	4.67	4.52	2.85	5.18	6.16	6.40	....	....
14	4.88	3.19	4.41	4.51	4.65	4.37	3.03	5.21	6.19	6.41	....	....
15	4.82	3.28	4.38	4.49	4.60	4.35	3.18	5.28	6.23	6.43	....	....
16	4.94	3.48	4.50	4.55	4.61	4.45	3.40	5.29	6.27	6.42	....	....
17	4.71	3.45	4.54	4.70	4.60	4.48	3.60	5.30	6.30	6.43	....	....
18	4.55	3.59	4.56	4.70	4.67	4.52	3.73	5.32	6.34	6.47	....	7.46
19	4.30	3.55	4.61	4.73	4.78	4.66	3.85	5.38	6.26	6.43	....	7.50
20	4.01	3.39	4.61	4.76	4.82	4.72	4.00	5.47	5.99	....	....	7.31
21	3.91	3.66	4.65	4.94	4.80	4.75	4.10	5.50	5.40	....	....	7.21
22	4.00	3.64	4.69	4.90	4.95	4.86	4.11	5.53	5.76	....	....	7.37
23	4.05	3.60	4.78	4.84	4.99	4.90	3.95	5.53	5.89	....	....	7.40
24	3.95	3.62	4.83	4.90	4.98	4.92	4.02	5.59	5.73	....	....	7.38
25	4.02	3.77	4.81	4.69	5.00	4.99	4.20	5.60	5.57	....	....	7.44
26	4.10	3.89	4.83	3.82	4.57	5.06	....	5.64	5.71	....	....	7.48
27	4.36	3.85	4.90	4.00	3.26	5.11	....	5.67	5.85	....	....	7.50
28	4.38	3.78	4.92	4.28	3.32	5.10	....	5.70	5.90	....	....	7.48
29	4.47		4.87	4.33	2.98	4.53	....	5.73	5.89	....	7.09	7.48
30	4.40		4.65	4.34	3.01	4.69	....	5.75	5.90	....	7.15	7.57
31	4.18		3.86		3.17		4.58	5.84		....		7.60

150. Mrs. Roxy Burnett. At Hobgood, one block east of State Highway 122 and half a block south of State Highway 125, on west side of street, in yard at southwest corner of vacant house. Elevation about 90 feet. Drilled well, diameter 5 inches, depth 120 feet, ending in Tuscaloosa sand. Measuring point, top of 5-inch casing, 3.7 feet above land-surface datum.

Water level, in feet below land-surface datum, 1942, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 19, 1942	22.40	July 26, 1946	18.29	Oct. 28, 1946	19.25
May 14, 1946	17.78	Aug. 27	19.04	Nov. 29	19.70
June 24	17.91	Sept.30	19.10	Dec. 29	18.95

Hertford County

14. Town of Winton. In Winton, 100 feet east of State Highway 97 and 750 feet south of intersection with U. S. Highway 158. Elevation about 45 feet. Drilled gravel-walled well, diameter of hole 24 inches, diameter of casing 8 inches, depth 260 feet, in Eocene (and Cretaceous (?)) sand. Measuring point, top of 8-inch casing, 2.00 feet above land-surface datum.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 15	28.30	July 26	28.08	Sept.30	27.99	Nov. 29	28.03
June 25	28.17	Aug. 27	27.99	Oct. 28	28.02	Dec. 29	27.98

Jones County

1 (*945, p. 107; *987, p. 128; 1017, p. 316; 1024, p.192). Geo. E. Weeks. At southeastern edge of Maysville.

Water level, in feet below land-surface datum, 1946

Jan. 1	0.7	Jan. 25	1.1	Feb. 19	1.5	Mar. 15	3.2
4	1.1	29	1.7	22	1.7	19	3.9
8	2.1	Feb. 1	2.0	26	2.2	22	4.2
11	2.4	5	1.9	Mar. 1	.9	26	4.4
15	2.0	8	1.4	5	1.6	29	4.7
18	.8	12	1.5	8	2.1	Apr. 2	4.9
22	.9	15	1.8	12	2.6	5	5.2

1--Continued.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 9	5.4	June 18	1.9	Aug. 23	3.5	Oct. 29	4.7
12	5.8	21	2.2	27	3.5	Nov. 1	4.9
16	5.5	25	2.4	30	3.9	5	4.4
19	5.3	28	2.0	Sept. 3	3.5	8	4.6
23	5.7	July 2	1.5	6	4.9	12	3.4
26	6.0	5	.6	10	5.5	15	3.6
30	6.3	9	.7	13	5.8	19	2.9
May 3	6.1	12	1.4	17	5.2	22	3.2
7	6.2	16	1.2	20	.7	26	3.8
10	6.4	19	1.9	24	1.7	29	4.1
14	1.2	23	1.7	27	2.2	Dec. 3	4.8
17	2.0	26	2.4	Oct. 1	2.7	6	5.0
21	3.2	30	2.2	5	3.2	10	6.4
24	3.6	Aug. 2	.9	8	1.8	13	6.9
28	4.0	6	1.0	11	1.0	17	5.7
31	4.4	9	1.4	15	2.4	20	6.0
June 4	2.9	13	2.5	18	3.6	24	1.9
7	3.4	16	3.6	22	3.9	27	2.2
11	4.9	20	3.0	25	4.4	31	2.8
14	5.3						

Martin County

2c. Town of Williamston. In Williamston, 20 feet southeast of round concrete reservoir at power plant. Elevation about 75 feet. Drilled well, diameter 8 inches, depth 400 feet, ending in sand of Eocene (?) age. Measuring point, east rim of catchment bowl, 13.75 feet above land-surface datum. Water levels, in feet below land-surface datum, 1946: May 17, 47.97; June 26, 48.91; July 27, 48.30; Aug. 28, 47.60.

Moore County

1 (*1017, p. 317; 1024, p. 193). Citizens Bank & Trust Co. At Pinebluff.

Mean daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	32.85	33.42	33.57	33.70	33.81	33.91	34.09	34.69	33.76	33.87	33.98	35.57
2	32.93	33.44	33.53	33.67	33.80	33.89	34.09	34.70	33.77	33.87	33.99	35.71
3	33.02	33.45	33.57	33.67	33.79	33.93	34.10	34.69	33.78	33.87	34.00	35.87
4	33.07	33.47	33.58	33.67	33.80	33.92	34.11	34.67	33.79	33.88	34.02	35.99
5	33.08	33.45	33.59	33.70	33.79	33.95	34.11	34.63	33.80	33.88	34.05	.....
6	33.06	33.40	33.59	33.70	33.76	33.96	34.11	34.59	33.80	33.88	34.08	.....
7	33.13	33.45	33.58	33.70	33.71	33.96	34.15	34.53	33.80	33.86	34.07	.....
8	33.15	33.49	33.58	33.69	33.71	33.96	34.17	34.51	33.80	33.83	34.04	.....
9	33.17	33.45	33.57	33.70	33.74	33.97	34.17	34.51	33.81	33.82	34.08	.....
10	33.1[illegible]	33.41	33.61	33.73	33.76	33.98	34.17	34.48	33.81	33.86	34.13	.....
11	33.27	33.54	33.62	33.73	33.76	33.98	34.20	34.46	33.81	33.87	34.14	.....
12	33.30	33.57	33.63	33.73	33.76	33.98	34.24	34.45	33.81	33.86	34.18	.....
13	33.33	33.49	33.62	33.75	33.81	33.99	34.27	34.47	33.82	33.90	34.21	.....
14	33.40	33.42	33.59	33.75	33.82	34.01	34.31	34.51	33.82	33.90	34.23	.....
15	33.38	33.50	33.58	33.74	33.81	34.01	34.32	34.55	33.82	33.89	34.27	.....
16	33.41	33.53	33.60	33.74	33.80	34.01	34.34	34.57	33.82	33.89	34.33	.....
17	33.43	33.49	33.61	33.75	33.80	34.00	34.37	34.56	33.82	33.87	34.39	.....
18	33.45	33.53	33.59	33.76	33.81	34.01	34.40	34.53	33.82	33.85	34.44	.....
19	33.45	33.48	33.61	33.76	33.84	34.03	34.43	34.53	33.81	33.87	34.51	.....
20	33.49	33.52	33.63	33.76	33.84	34.04	34.48	34.55	33.80	33.89	34.56	.....
21	33.46	33.58	33.64	33.80	33.85	34.06	34.51	34.57	33.81	33.91	34.61	.....
22	33.34	33.51	33.63	33.79	33.87	34.08	34.53	34.59	33.85	33.92	34.67	.....
23	33.31	33.47	33.63	33.77	33.88	34.09	34.53	34.59	33.86	33.92	34.76	.....
24	33.26	33.45	33.64	33.77	33.88	34.08	34.58	34.59	33.86	33.92	34.86	.....
25	33.17	33.51	33.64	33.74	33.87	34.08	34.62	34.60	33.85	33.92	34.93	.....
26	33.23	33.51	33.63	33.75	33.85	34.09	34.64	34.58	33.86	33.92	35.02	.....

1--Continued.

Mean daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
27	33.27	33.49	33.65	33.79	33.85	34.09	34.67	34.40	33.86	33.97	35.10	37.98
28	33.35	33.53	33.64	33.81	33.87	34.09	34.71	33.58	33.87	33.98	35.24	38.03
29	33.38		33.63	33.81	33.89	34.09	34.74	33.60	33.85	33.98	35.36	38.09
30	33.34		33.65	33.81	33.90	34.09	34.75	33.66	33.84	33.98	35.47	38.16
31	33.33		33.71		33.91		34.70	33.72		33.98		38.24

Nash County

1 (*777, p. 135; 817, p. 216; 840, p. 304; 845, p. 336; 886, p. 515; 907, p. 72; 937, p. 79; *945, p. 108; *987, p. 129; 1017, p. 317; 1024, p. 193). Alston well. About 0.5 mile north of Tar River, 100 yards east of State Highway 58, and 8 miles south of Nashville.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	1.64	Apr. 3	7.84	July 3	7.68	Sept.28	12.22
5	1.97	6	7.90	6	7.74	Oct. 2	12.35
9	2.67	10	8.08	10	7.90	5	12.44
12	2.98	13	8.04	13	8.05	9	12.30
16	1.08	17	8.02	17	8.44	12	12.39
19	.50±	20	8.10	20	8.66	16	12.47
23	1.80	24	8.16	24	9.49	19	12.49
26	2.17	27	5.69	27	9.23	23	12.44
30	2.98	May 1	3.23	31	9.44	26	12.55
Feb. 2	2.88	4	3.32	Aug. 3	9.61	Nov. 6	12.67
6	3.41	8	3.75	7	9.87	9	12.66
9	4.10	11	4.19	10	10.04	13	12.73
13	2.57	15	3.54	14	10.20	16	12.74
16	1.85	18	2.72	17	10.32	20	12.41
20	2.41	22	2.49	21	10.49	23	12.44
23	2.78	25	2.95	24	10.57	27	7.14
27	3.60	29	3.14	28	10.88	30	3.06
Mar. 2	3.05	June 1	3.30	31	10.97	Dec. 4	5.92
6	3.87	5	4.67	Sept. 4	11.18	7	6.68
9	4.26	8	5.39	7	11.39	11	7.78
13	5.10	12	5.87	11	11.60	14	8.02
16	5.87	15	6.94	14	11.76	18	8.09
20	6.54	19	7.45	18	12.06	21	8.18
23	6.91	22	7.41	21	11.78	25	7.88
27	7.36	26	7.55	25	12.03	28	7.70
30	7.52	29	7.60				

Northampton County

40. Mrs. R. L. Gattis. At Conway, about 0.25 mile west of State Highway 35, and 100 feet south of U. S. Highway 158, next to side porch of house. Elevation about 102 feet. Drilled well, depth 118 feet, diameter 4¼ inches, ending in Tuscaloosa sand. Measuring point, top of can, 0.35 foot above top of casing, which is about 0.65 foot above land-surface datum.

Water level, in feet below land-surface datum, 1942, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 4, 1942	34.15	July 26, 1946	32.61	Oct. 28, 1946	34.13
May 15, 1946	32.60	Aug. 27	33.24	Nov. 29	33.92
June 25	32.59	Sept.30	34.00	Dec. 29	33.60

82. R. A. Chappel. At Potecasi, about 2 miles northwest of Woodland, about 150 feet northwest of railroad, 100 feet west of highway, in front of new brick house. Elevation about 69 feet. Jetted well, diameter 3 inches, depth 160 feet, ending in Tuscaloosa sand. Measuring point, top of 1-inch pipe which is 1.75 feet above 3-inch casing and 2.0 feet above land-surface datum.

82--Continued.

Water level, in feet below land-surface datum, 1942, 1946

Date	Water level	Date	Water level	Date	Water level
Mar. 4, 1942	14.95	July 26, 1946	12.36	Oct. 28, 1946	13.33
May 15, 1946	12.21	Aug. 27	12.73	Nov. 29	13.32
June 25	12.28	Sept.30	12.94	Dec. 29	13.25

Orange County

1 (*845, p. 337; 886, p. 516; 907, p. 73; 937, p. 77; *945, p. 109; *987, p. 129; 1017, p. 318; 1024, p. 194). McCauley well. At Chapel Hill, on west side of Chi Psi fraternity house on Cameron Street.

Water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	40.69	39.98	38.84	38.65	38.68	38.62	38.84	.....	39.63	40.28	40.60	40.90
2	40.74	39.96	38.74	38.54	38.63	38.60	38.84	.....	39.64	40.31	40.61	40.91
3	40.71	39.96	38.77	38.52	38.60	38.68	38.85	.....	39.67	40.34	40.62	41.01
4	40.65	39.94	38.76	38.52	38.63	38.68	38.87	.....	39.70	40.36	40.63	40.98
5	40.58	39.88	38.74	38.57	38.62	38.73	38.88	39.15	39.73	40.39	40.66	40.97
6	40.55	39.79	38.72	38.59	38.62	38.73	38.84	39.16	39174	40.39	40.68	40.95
7	40.55	39.78	38.69	38.59	38.57	38.70	38.87	39.18	39.76	40.37	40.66	40.99
8	40.53	39.83	38.65	38.57	38.61	38.71	38.88	39.22	39.79	40.37	40.60	41.03
9	40.49	39.74	38.64	38.58	38.65	38.74	38.86	39.22	39.82	40.34	40.63	41.03
10	40.47	39.56	38.66	38.64	38.67	38.81	38.84	39.20	39.81	40.30	40.70	41.02
11	40.49	39.51	38.68	38.64	38.62	38.77	38.86	39.24	39.80	40.35	40.71	41.00
12	40.45	39.52	38.68	38.61	38.61	38.73	38.85	39.28	39.82	40.36	40.74	41.00
13	40.47	39.41	38.64	38.65	38.70	38.76	38.88	39.31	39.86	40.39	40.76	40.97
14	40.48	39.29	38.57	38.65	38.69	38.80	38.89	39.34	39.90	40.43	40.75	41.05
15	40.41	39.36	38.54	38.61	38.65	38.85	38.89	38.36	39.92	40.42	40.76	41.05
16	40.45	39.34	38.58	38.60	38.61	38.87	38.94	38.35	39.98	40.42	40.81	41.08
17	40.38	39.23	38.56	38.66	38.59	38.83	38.94	38.32	39.99	40.39	40.83	41.11
18	40.37	39.22	38.53	38.65	38.58	38.82	38.94	39.31	40.02	40.35	40.82	41.11
19	40.37	39.08	38.54	38.64	38.66	38.87	38.95	39.36	40.03	40.34	40.82	41.15
20	40.36	39.07	38.57	38.62	38.65	38.89	38.95	39.40	40.01	40.41	40.80	41.15
21	40.29	39.11	38.58	38.73	38.64	38.90	38.96	39.43	40.04	40.44	40.78	41.04
22	40.32	38.98	38.54	38.67	38.69	38.87	38.98	39.45	40.10	40.53	40.78	41.09
23	40.30	38.90	38.55	38.60	38.69	38.87	38.99	39.46	40.13	40.53	40.79	41.17
24	40.20	38.84	38.56	38.58	38.65	38.85	39.02	39.49	40.13	40.52	40.84	41.14
25	40.18	38.89	38.55	38.54	38.61	38.84	39.01	39.50	40.14	40.52	40.83	41.13
26	40.17	38.85	38.52	38.54	38.58	38.86	39.05	39.51	40.17	40.51	40.86	41.17
27	40.18	38.80	38.55	38.65	38.55	38.87	39.08	39.52	40.21	40.58	40.86	41.18
28	40.14	38.83	38.54	38.72	38.57	38.87	39.10	39.54	40.23	40.62	40.91	41.18
29	40.13		38.48	38.70	38.64	38.87	39.12	39.55	40.21	40.62	40.92	41.15
30	40.05		38.50	38.70	38.65	38.85	.....	39.56	40.21	40.60	40.91	41.16
31	39.96		38.64		38.64		.....	39.60		40.59		.....

Pasquotank County

31T (*817, p. 226; 840, p. 317; 845, p. 344; 886, p. 526; 907, p. 85; 937, p. 87; *945, p. 110; *987, p. 130; 1017, p. 318; 1024, p. 194). 3 miles west of Elizabeth City and 1,000 feet north of city well fields.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	0.80	Feb. 2	1.04	Mar. 27	1.85	Oct. 28	3.28
30	.70	3	1.32	28	1.99	Nov. 29	.99
31	.59	19	1.10	29	2.07	Dec. 29	1.46
Feb. 1	.72	20	.53	30	2.00		

33T (*845, p. 344; 886, p. 526; 907, p. 86; 937, p. 88; *945, p. 110; *987, p. 131; 1017, p. 319; 1024, p. 195). 3 miles west of Elizabeth City in city well field, about 20 feet east of pump house.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	1.75	Apr. 1	1.80	Nov. 13	4.91	Dec. 3	4.66
30	1.59	2	1.79	14	4.96	4	4.58
31	1.40	3	1.53	15	5.31	5	4.53
Feb. 1	1.76	Oct. 1	5.12	16	5.44	6	4.60
2	1.8	28	6.05	17	5.39	7	4.75
3	2.07	29	5.95	18	4.95	8	4.82
4	2.13	30	5.82	19	4.74	9	4.81
19	1.80	31	5.79	20	4.71	10	4.83
20	1.51	Nov. 1	5.84	21	4.66	11	4.97
21	1.78	2	5.82	22	4.73	12	4.91
22	1.58	3	5.66	23	4.95	13	4.95
23	1.54	4	5.65	24	4.86	14	5.05
24	1.53	5	5.89	25	4.84	15	5.03
25	1.69	6	5.87	26	4.77	16	5.21
26	1.74	7	5.61	27	4.50	17	5.21
Mar. 27	1.40	8	5.28	28	4.25	18	5.36
28	1.49	9	5.33	29	4.22	29	4.90
29	1.57	10	5.32	30	4.18	30	5.10
30	1.45	11	5.30	Dec. 1	4.01	31	5.48
31	1.38	12	4.91	2	4.51		

200. City of Elizabeth City. At water plant, 150 feet east of treatment plant. Drilled well, diameter 8 inches, depth 75 feet. Measuring point, top of 8-inch casing, about 2.5 feet above land-surface datum.

Water level, in feet below land-surface datum, 1946

May 16	34.23	July 26	35.60	Oct. 1	34.80	Nov. 29	33.20
June 25	24.65	Aug. 28	22.67	29	22.17	Dec. 29	22.40

Perquimans County

2 (*1017, p. 320; 1024, p. 196). Naval Auxiliary Air Station. In Harvey Point. Drilled well, diameter 8 inches, 74 feet deep. No measurements made in 1946.

Randolph County

9 (*817, p. 218; *840, p. 308; 845, p. 339; 886, p. 520; 970, p. 79; 937, p. 82; *945, p. 111). W. C. Warner. About 2 miles southwest of Climax. No measurements made in 1946.

9B (*817, p. 218; *840, p. 308; 845, p. 339; 886, p. 520; 907, p. 80; 937, p. 82; *945, p. 111). W. C. Warner. Location same as well 9. No measurements made in 1946.

10 (*777, p. 138; *817, p. 218; *840, p. 308; 845, p. 339; 886, p. 520; 907, p. 80; 937, p. 83; *945, p. 111). W. F. Beason. Near Cedar Square Church, 6 miles northwest of Randleman. No measurements made in 1946.

11 (*817, p. 218; *840, p. 308; 845, p. 339; 886, p. 520; 907, p. 80; 937, p. 83; *945, p. 111). Emery Taylor. Near Coletranes Mill, about 7 miles northwest of Randleman. No measurements made in 1946.

20 (*777, p. 138; *817, p. 218; *840, pp. 310, 313; 845, p. 340; 886, p. 521; 907, p. 80; 937, p. 83; *945, p. 111; *987, p. 131; 1017, p. 320; 1024, p. 197). Dr. Bush. At Archdale, 100 feet east of paved road to High Point and 480 feet north of State Highway 62.

Water level, in feet below land-surface datum, 1946

Jan. 29	24.56	Apr. 28	21.76	July 28	21.95	Oct. 30	23.86
Feb. 24	22.28	May 26	21.97	Aug. 25	22.02	Nov. 30	24.25
Mar. 27	20.88	June 23	21.93	Sept. 29	23.25	Dec. 30	24.48

21 (*777, p. 138; *817, p. 218; *840, p. 310; 845, p. 340; 886, p. 552; 907, p. 81; 937, p. 37; *945, p. 113). J. W. Young. About 2 miles west of Randleman and 1 mile north of U. S. Highway 311. No measurements made in 1946.

23 (*777, p. 138; *817, p. 219; *840, p. 310; 845, p. 340; 886, p. 522; 907, p. 81; 937, p. 83; *945, p. 113). Mrs. Lonnie Pugh. At New Salem, 40 feet north of road. No measurements made in 1946.

25 (*777, p. 138; *817, p. 219; *840, p. 310; 845, p. 340; 886, p. 522; 907, p. 81; 937, p. 83; *945, p. 112; *987, p. 132; 1017, p. 321; 1024, p. 197). J. S. White. One mile southwest of Trinity and 120 feet southeast of State Highway 62.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 29	28.62	Apr. 28	25.90	July 28	26.20	Oct. 30	28.15
Feb. 24	23.55	May 26	26.08	Aug. 25	27.30	Nov. 30	28.50
Mar. 27	26.88	June 23	26.30	Sept.29	27.68	Dec. 30	28.78

27 (*777, p. 138; *817, p. 219; *840, p. 310; 845, p. 340; 886, p. 522; 907, p. 81; 937, p. 83; *945, p. 112; *987, p. 132; 1017, p. 321; 1024, p. 197). Walter Lambeth. About 3 miles southwest of Trinity, 550 feet north of State Highway 62.

Water level, in feet below land-surface datum, 1946

Jan. 29	18.22	Apr. 28	19.89	July 28	18.09	Oct. 30	25.48
Feb. 24	11.48	May 26	18.08	Aug. 25	13.70	Nov. 30	(a)
Mar. 27	21.10	June 23	17.76	Sept.29	15.58	Dec. 30	(a)

a Dry.

Surry County

1 (*845, p. 337; 886, p. 517; 907, p. 73; 945, p. 112; *987, p. 132; 1017, p. 321; 1024, p. 197). A. D. Terrell. 4 miles south of Dodson, 1.8 miles east of Fairview, about 0.5 mile north of State Highway 268, and 50 feet west of county road.

Water level, in feet below land-surface datum, 1946

Jan. 7	42.70	Mar. 31	42.59	June 29	40.78	Sept.29	40.60
13	42.82	Apr. 7	42.45	July 5	40.74	Oct. 7	40.60
21	42.99	18	42.18	16	40.58	13	40.75
Feb. 3	43.08	27	41.88	25	40.56	23	40.99
10	43.04	May 2	41.85	31	40.45	Nov. 4	41.06
20	43.15	13	41.55	Aug. 10	40.40	11	41.39
24	43.02	20	41.41	19	40.39	19	41.39
Mar. 3	43.16	27	41.25	28	40.36	Dec. 1	41.55
10	43.01	June 4	41.15	Sept. 6	40.47	15	41.77
18	42.96	11	41.05	19	40.51	22	41.13
26	42.78	19	40.89				

Transylvania County

1 (*777, p. 136; 817, p. 215; 840, p. 304; 845, p. 335; 886, p. 515; 907, p. 71; 937, p. 77; *945, p. 114; *987, p. 133; 1017, p. 321; 1024, p. 198). Baldwin well. Near Blantyre, about 200 yards west of depot.

Water level, in feet below land-surface datum, 1946

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	33.57	31.95	30.28	28.96	28.05	27.69	28.45	29.75	30.97	32.10	32.80	33.02
2	33.57	31.87	30.22	28.93	28.01	27.66	28.50	29.81	31.00	32.07	32.81	33.02
3	33.55	31.85	30.18	28.86	27.95	27.70	28.52	29.87	31.05	32.12	32.83	33.02
4	33.51	31.78	30.14	28.82	27.89	27.71	28.58	29.89	31.08	32.15	32.85	33.02
5	33.48	31.71	30.09	28.79	27.95	27.75	28.63	29.90	31.13	32.19	32.87	33.02
6	33.31	31.60	30.09	28.77	27.91	27.77	28.67	29.94	31.17	32.21	32.88	32.99
7	33.17	31.52	30.01	28.73	27.89	27.78	28.73	29.96	31.20	32.23	32.88	32.98
8	33.14	31.49	29.93	28.66	27.89	27.79	28.77	30.05	31.24	32.24	32.90	32.98

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1--Continued.

Water level, in feet below land-surface datum, 1946

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
9	33.13	31.43	29.88	28.64	27.89	27.81	28.79	30.06	31.24	32.20	32.90	32.97
10	33.11	31.02	29.84	28.62	27.89	27.82	28.84	30.08	31.30	32.26	32.92	32.96
11	33.17	31.05	29.80	28.60	27.86	27.83	28.84	30.12	31.32	32.31	32.93	32.93
12	33.12	31.05	29.77	28.55	27.83	27.85	28.83	30.18	31.36	32.33	32.94	32.91
13	33.07	31.05	29.72	28.54	27.84	27.86	28.87	30.23	31.42	32.37	32.95	32.91
14	33.03	30.98	29.67	28.51	27.83	27.87	29.03	30.27	31.47	32.42	32.96	32.88
15	32.99	30.97	29.53	28.46	27.80	27.91	29.07	30.40	31.50	32.45	32.97	32.88
16	32.97	30.96	29.51	28.39	27.78	27.94	29.13	30.36	31.56	32.48	32.98	32.87
17	32.93	30.90	29.46	28.35	27.75	27.96	29.18	30.38	31.57	32.49	32.99	32.87
18	32.85	30.82	29.43	28.34	27.72	27.97	29.24	30.39	31.61	32.49	32.99	32.87
19	32.80	30.76	29.41	28.31	27.74	27.99	29.21	30.46	31.64	32.52	32.99	32.87
20	32.76	30.71	29.38	28.30	27.73	28.04	29.28	30.58	31.66	32.57	32.99	32.86
21	32.67	30.64	29.35	28.28	27.72	28.07	29.21	30.52	31.68	32.60	32.99	32.85
22	32.63	30.61	29.33	28.24	27.75	28.11	29.35	30.58	31.73	32.63	32.99	32.85
23	32.56	30.57	29.32	28.18	27.76	28.18	29.41	30.61	31.77	32.65	32.99	32.84
24	32.47	30.52	29.24	28.15	27.74	28.21	29.46	30.61	31.82	32.66	33.01	32.83
25	32.40	30.45	29.21	28.11	27.71	28.24	29.49	30.70	31.85	32.67	33.01	32.83
26	32.39	30.40	29.18	28.06	27.67	28.21	29.52	30.74	31.90	32.70	33.01	32.82
27	32.35	30.35	29.14	28.08	27.66	28.39	29.69	30.77	31.92	32.73	33.02	32.81
28	32.26	30.31	29.10	28.09	27.65	28.36	29.62	30.80	31.93	32.76	33.03	32.79
29	32.17		29.02	28.08	27.66	28.38	29.66	30.81	31.98	32.77	33.03	32.76
30	32.11		28.98	28.07	27.70	28.42	29.79	30.88	31.99	32.78	33.03	32.77
31	32.01		28.99		27.69		29.71	30.90		32.79		32.77

Wake County

1 (*777, p. 134; 817, p. 215; 840, p. 304; 845, p. 335; 886, p. 515; 907, p. 71; 937, p. 79; 945, p. 114; *987, p. 133; 1017, p. 322; 1024, p. 198). Fishdam well. 1 mile downstream from bridge across Neuse River on U. S. Highway 15 and about 2 miles west of Northside, on left bank of river.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	4.89	May 30	3.85	Aug. 18	8.80	Nov. 17	6.19
Feb. 3	3.60	June 9	4.44	25	9.32	24	5.25
13	3.44	23	6.39	Sept. 8	9.95	Dec. 1	6.24
Mar. 13	4.87	July 7	4.07	22	9.94	7	6.21
27	6.57	21	5.67	Nov. 3	5.22	21	6.24
Apr. 17	7.84	Aug. 4	7.60	10	6.22	28	6.21
May 12	4.37						

Note: All measurements from June 7, 1939, to Dec. 31, 1942, should be corrected by +3.73 feet. Measurements from Jan. 1, 1943, to Dec. 31, 1945, should be corrected by -3.73 feet.

Washington County

1 (*945, p. 115; *987, p. 133; 1017, p. 322; 1024, p. 199). R. H. Lucas. About 1.5 miles west of Plymouth and 50 yards south of U. S. Highway 64.

Water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	12.68	11.95	11.69	12.19	12.88	12.75	14.11	.....	12.48	11.00	13.00	.....
2	12.65	12.04	11.59	12.15	12.90	12.84	14.11	.....	12.61	11.14	13.02	.....
3	12.65	12.13	11.65	12.24	12.92	12.90	14.12	.....	12.75	11.30	12.76	12.80
4	12.67	12.26	.....	12.30	12.95	.....	13.84	.....	12.89	.....	12.68	12.80
5	12.67	12.29	.....	12.44	12.95	13.04	.....	.....	12.94	.....	12.74	12.81
6	12.71	12.25	.....	12.59	12.99	13.13	.....	12.40	12.98	.....	12.76	12.86
7	12.72	12.27	.....	12.70	13.01	13.21	.....	12.50	12.89	.....	12.76	12.94
8	12.85	12.37	.....	12.75	13.11	13.29	.....	12.45	12.43	.....	12.70	12.98
9	12.89	12.31	.....	12.80	13.19	13.42	.....	12.50	12.36	.....	12.68	13.01

1--Continued.

Water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
10	12.92	11.80	.....	12.91	13.25	13.51	.....	12.55	12.37	.....	12.71	13.02
11	12.72	11.30	.....	12.93	13.32	13.56	.....	12.56	12.43	.....	12.72	13.05
12	12.72	11.31	.....	.....	13.36	13.61	.....	12.38	12.48	.....	12.78	13.09
13	12.77	11.28	12.47	.....	13.33	13.65	.....	11.95	12.50	.....	12.84	13.10
14	.....	11.23	12.48	.....	13.15	13.71	12.15	.....	12.49	.....	12.88	13.16
15	.....	11.46	12.48	.....	12.62	13.69	12.25	.....	12.57	.....	12.99	13.20
16	.....	11.54	12.58	.....	12.20	13.68	12.36	12.10	12.68	.....	13.07	13.28
17	.....	11.44	12.65	12.42	12.09	13.68	12.46	12.14	12.77	.....	13.08	13.31
18	11.45	11.47	12.67	12.26	12.13	13.71	12.60	12.26	12.83	.....	12.74	13.34
19	11.43	11.37	12.70	12.27	12.21	13.80	12.72	12.30	12.88	.....	12.45	13.41
20	11.52	11.25	12.72	12.33	12.35	13.83	12.83	12.25	12.50	.....	.....	13.33
21	11.40	11.38	.....	12.57	12.28	13.88	12.98	11.71	11.70	.....	.....	13.05
22	11.44	11.35	12.83	12.62	12.21	13.90	13.04	11.47	11.22	.....	.....	13.05
23	11.50	11.38	12.89	12.64	12.30	13.88	13.11	11.52	11.24	.....	12.69	13.06
24	11.45	11.44	12.89	12.74	12.39	13.89	13.13	.....	11.15	.....	12.66	13.00
25	11.48	11.48	12.48	.....	12.47	13.93	13.15	.....	.....	.....	12.67	.....
26	11.56	11.52	12.10	.....	.....	13.96	13.24	.....	11.02	.....	12.69	.....
27	11.68	11.56	12.11	12.84	12.19	14.03	13.29	.....	11.14	.....	12.68	.....
28	.....	11.59	12.15	12.86	12.20	14.05	13.34	11.96	11.22	.....	12.68	.....
29	.....		12.15	12.91	12.36	14.09	.....	12.06	11.02	12.87	12.66	.....
30	.....		12.19	12.90	12.48	14.12	.....	12.17	10.86	12.90	12.68	.....
31	.....		12.20		12.61		.....	12.33		12.94		.....

Wayne County

1 (*777, p. 135; 817, p. 215; 840, p. 303; 845, p. 335; 886, p. 514; 907, p. 70; 937, p. 79; 945, p. 115; *987, p. 134; 1017, p. 323; 1024, p. 199). Borden Brick & Tile Co. Brick Pit well. About 3.5 miles south of Goldsboro, 200 feet east of U. S. Highway 117 and Neuse River.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	1.40	Apr. 6	1.48	July 5	2.38	Oct. 5	3.12
12	1.12	13	1.60	13	2.04	12	3.10
19	.50	20	1.68	20	2.04	19	3.12
26	1.90	27	1.78	27	2.04	26	3.16
Feb. 2	1.04	May 4	1.92	Aug. 3	2.30	Nov. 2	3.28
9	1.20	11	2.12	10	2.28	9	3.34
16	1.18	18	2.02	17	2.44	16	3.46
23	1.12	25	2.16	24	2.44	23	3.52
Mar. 2	1.14	June 1	2.24	31	2.60	30	3.48
9	1.30	8	2.42	Sept. 7	2.78	Dec. 7	3.52
16	1.46	15	2.52	14	2.92	14	3.54
23	1.36	22	2.36	21	2.92	21	3.54
30	1.46	29	2.36	28	2.96	28	3.62

SOUTH CAROLINA

By G. E. Siple

PROGRAM OF WORK

An observation-well program in the Tiger River area (see U. S. Geol. Survey Water-Supply Papers 777, 817, 840, 845, 886, 907, 937, 945, and 987) was begun in 1932 in cooperation with the Soil Conservation Service, U. S. Department of Agriculture. At that time observations were being made in 28 wells in the Tiger River area. In 1939 measurements were begun on 10 wells in the Savannah area in cooperation with the Division of Mines, Mining, and Geology of the Georgia State Division of Conservation. (See U. S. Geol. Survey Water-Supply Papers 945 and 987.) In 1942 a shallow bored well on the Poinsett State Park grounds, in Sumter County, was selected for the purpose of determining the fluctuation of the water table in that area.

In 1942 the number of wells in the Tiger River area had been reduced to three wells, the others having gone dry. Measurements on these three wells were discontinued at the end of 1942. The observations on the wells in the Savannah area were temporarily discontinued in 1943, and the last measurements were made on the well in Sumter County in 1944.

In 1945 a systematic program of ground-water investigation was begun in South Carolina in cooperation with the South Carolina Research, Planning, and Development Board. As an integral part of this program, measurements were resumed in the last quarter of 1946 on some of the above wells in addition to others scattered over the State, the majority in the Coastal Plain region. These observations were made for the purpose of selecting and establishing a series of permanent observation wells. During this period, measurements were made monthly, where possible, on the wells which are included in this report.

PRECIPITATION

Precipitation in South Carolina was about 5 percent below normal in 1946. July was the wettest month and December was the driest. The average annual precipitation was 44.83 inches, a deficiency of 2.80 inches. The average snowfall was 0.5 inch, or 1.8 inches below normal.

The average precipitation for fall months was 10.10 inches, or 0.82 inch above normal. The average precipitation for October was 4.84 inches, or 1.95 inches above normal, for November it was 2.80 inches, or 0.50 inch above normal, but for December it was 1.26 inches, or 2.33 inches below normal. This was the third lowest December rainfall on record. This decline in rainfall is shown in the lower water levels, especially in Marlboro, Berkeley, and Lexington Counties. The decrease in precipitation in Spartanburg County during December is not reflected very well by the water-level measurements.

Generally, except where the well is affected by nearby pumpage, the water levels correlate with precipitation, although, in some cases, the effect of rainfall is reflected only after a time lag of several days to weeks. This lag is greatest in the wells in the weathered crystalline rocks such as granites, slates, and schists.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Allendale County

1. Mr. Easton. In Denmark, 0.2 mile southeast of railroad station on Route 28. Drilled well, diameter 8 inches, depth 660 feet, ending in Tuscaloosa sand. Elevation 135 feet. Measuring point, 1¼-inch discharge pipe, 4.5 feet above land-surface datum. Water levels, in feet above land-surface datum, 1946: Oct. 28, 38.3; Nov. 30, 37.8; Dec. 18, 37.5.

Beaufort County

1 (945, p. 116). E. C. Gale. At Red Bluff. Water level affected by tide. Water level, in feet below land-surface datum, 1946: Mar. 7, 15.03.

10 (945, p. 117). A. H. Crosby. At Bluffton. Water level affected by tide. Water levels, in feet below land-surface datum: Feb. 14, 1945, 21.97; Mar. 7, 1946, 21.41.

20 (945, p. 117). Harry Hector. Near bluff 4 miles east of Bluffton. Equipped with pitcher pump mounted on concrete base. Well plugged; measurements discontinued.

Berkeley County

1. Santee River Hardwood Co., St. Stephens. Drilled well, diameter 6 inches, depth 900 feet, ending in sand of Peedee-Black Creek age. Elevation 67.1 feet. Measuring point, vertical face of 6-inch elbow, 2.7 feet above land-surface datum. Water levels, in feet below land-surface datum, 1946: Mar. 15, 20.60; Oct. 25, 16.40; Nov. 25, 16.46; Dec. 19, 16.81.

Jasper County

1 (945, p. 117). Fish & Wildlife Service, U. S. Dept. of Interior. Water level affected by tide. In Water-Supply Paper 987, p. 136, water levels are given as being above land-surface datum. This well does not flow, hence water levels are below land-surface datum. Water level, in feet below land-surface datum, 1946: Mar. 7, 24.28.

5 (987, p. 136). J. S. Denham. On Delta Plantation. Measurements discontinued.

Lexington County

1. Owner unknown. On north side of State Highway 215, 100 feet east of Aiken-Lexington County line. Driven well, diameter 1½ inches, depth 23 feet, ending in Tuscaloosa or McBean sand. Measuring point, top of 1½-inch pipe, 0.9 foot above land-surface datum. Elevation 258 feet. Water levels, in feet below land-surface datum, 1946: Oct. 15, 17.15; Nov. 30, 17.43.

Marlboro County

1. Town of McColl. 20 feet southeast of water-works building on municipal lot. Drilled well, diameter 8 inches, depth 80 to 90 feet, ending in Tuscaloosa formation. Measuring point, top of steel frame over well seat, 2.3 feet above land-surface datum. Elevation 177 feet. Water levels, in feet below land-surface datum, 1946: Feb. 7, 26.70; Oct. 4, 19.71, affected by pumping; Nov. 30, 25.13; Dec. 19, 26.03.

2. Town of McColl. 25 feet southwest of water-works building on municipal lot. Drilled well, diameter 8 inches, depth 90 to 100 feet, ending in Tuscaloosa sand. Measuring point, top of steel casing, 0.5 foot above land-surface datum, 1946: Feb. 17, 28.30; Oct. 4, 21.28; Nov. 30, 29.60; Dec. 19, 30.37.

Orangeburg County

1. Town of North. On city lot, under elevated tank. Drilled well, diameter 10 inches, depth 125 feet, ending in McBean (?) sand. Elevation 274 feet. Water levels, in feet below land-surface datum, 1946: Jan. 28, 49.20, affected by pumping; Nov. 30, 46.93; Dec. 18, 43.53.

Spartanburg County

3 (*777, p. 171; 817, p. 303; 840, p. 367; 845, p. 434; 937, p. 90; 945, p. 119). J. M. Gates. Formerly owned by C. D. Turner. 0.25 mile south and 45° east of Switzer. Measuring point is 1.9 feet above land-surface datum. Water levels, in feet below land-surface datum, 1946: Oct. 10, 29.10; Dec. 17, 29.70.

12 (*777, p. 172; 817, p. 303; 840, p. 368; 845, p. 435; 886, p. 639; 907, p. 90; 937, p. 91; 945, p. 120). J. G. R. Armstrong. 2 miles north and 50° west of Duncan. Water levels, in feet below land-surface datum, 1946: Oct. 10, 35.60; Dec. 17, 35.60.

Sumter County

1 (*987, p. 137). Poinsett State Park. 1.6 miles south and 1.3 miles east of Wedgefield. Water levels, in feet below land-surface datum, 1946: Oct. 19, 15.42; Nov. 19, dry; Dec. 20, dry.

2. City of Sumter. 150 feet south of entrance to water-works building. Jetted well, diameter 24 inches, depth 50 feet, ending in Pleistocene (?) or Eocene (?) sand. Measuring point, top of concrete cover, 1.8 feet below land-surface datum. Water levels, in feet below land-surface datum, 1946: Oct. 21, 13.85; Dec. 16, 11.39.

TENNESSEE

By E. M. Cushing and G. K. Mauney

PROGRAM OF WORK

During 1946 the program of water-level measurements in wells in Memphis and in Shelby County was continued as a part of the investigation of the ground-water resources of the Memphis area in cooperation with the Memphis Light, Gas and Water Division.

During the year water-level measurements were made periodically in 45 wells. In 30 wells, 1,166 tape measurements were made, while for the remaining 15 wells, which were equipped with water-stage recorders, 4,847 lowest daily water levels were determined from recorder charts. A total of 6,013 measurements are reported. Five observation wells were added to the program during 1946.

PUMPAGE

The average quantity of water pumped daily during the year from the so-called "500-foot" sand is estimated to be about 85 million gallons, about 10 million gallons a day less than the average daily withdrawals from the sand during 1945. The average daily pumpage from the "1,400-foot" sand was about 9 million gallons, the same as during 1945.

FLUCTUATIONS OF WATER LEVEL

In general, the water levels in wells screened in the "500-foot" sand continued to rise during 1946. The rise, which began near the end of 1945, was brought about by the curtailment of production in certain industries which, in turn, resulted in less water being pumped from the water-bearing sands.

Water levels in observation wells ranged from about 1.3 feet lower to 5.1 feet higher than the lowest levels of the summer of 1945. The average rise over the area, based upon measurements made in 26 observation wells, was about 2 feet. In only one observation well (79:7-17) did the measurements show that the water level reached a lower point than the low of 1945.

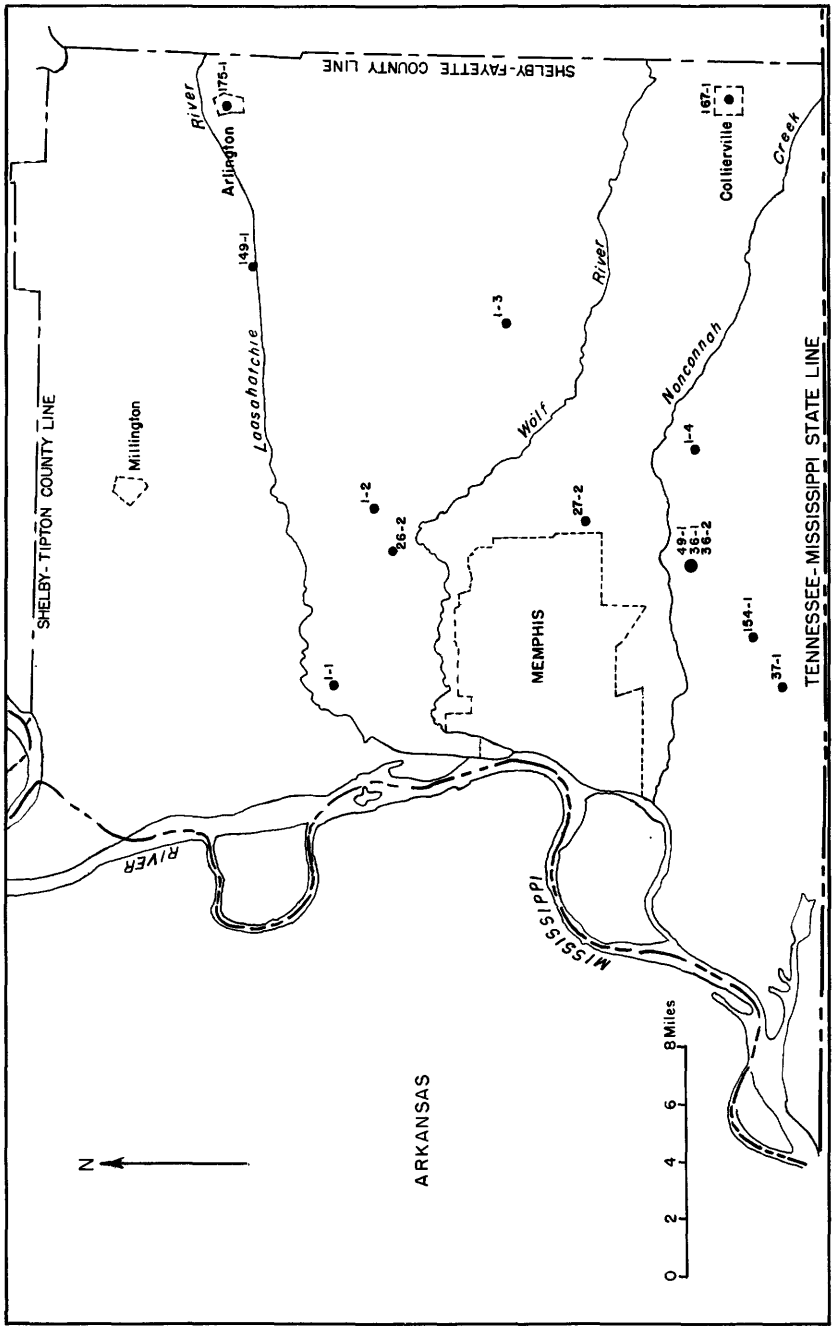

Figure 11.--Map of Tennessee showing location of observation wells in Shelby County.

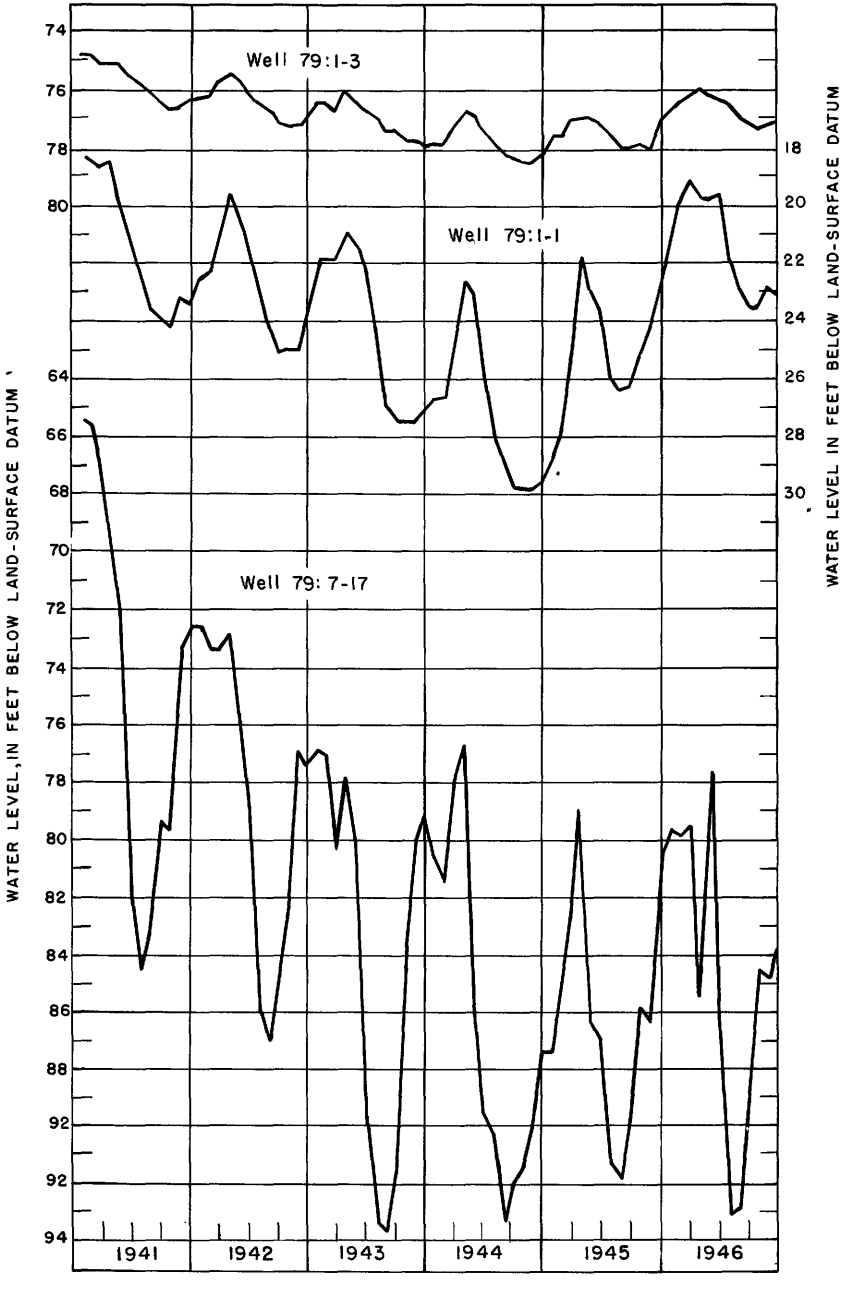

Figure 12.--Graphs showing fluctuations of water level in typical observation wells in Memphis area, Tennessee.

Figure 12 shows the hydrographs of water-level fluctuations in typical wells in the Memphis area. Well 79:1-1 is north of Memphis and well 79:1-3 is east of the city. (See fig. 11.) The water levels in these wells probably reflect the effect of all the pumping from the "500-foot" sand in the Memphis area and probably indicate the true trend of the water levels of the area. The greater range of fluctuations in well 79:1-1 is attributed to the fact that this well is nearer the areas of heavy pumpage than is well 79:1-3.

Well 79:7-17 is in the Parkway well field of the Memphis Light, Gas and Water Division. As might be expected, the yearly range in the water level in an active well field is extremely large.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Shelby County

79:1-1 (*907, p. 100; 937, p. 96; 945, p. 125; *987, p. 141; 1017, p. 328; 1024, p. 204). Memphis Light, Gas and Water Division. On O. K. Robertson Road, 2.24 miles north of Frayser.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	21.80	19.55	18.42	17.93	19.64	18.46	19.68	21.84	23.10	23.37	22.70	22.76
2	21.72	19.76	18.55	17.86	19.66	18.60	19.70	21.93	23.13	23.35	22.76	22.79
3	21.52	19.87	18.60	17.80	19.61	18.67	19.75	22.00	23.10	23.35	22.87	22.70
4	21.47	19.85	18.64	17.90	19.68	18.73	19.83	22.08	23.09	23.38	22.94	22.72
5	21.35	19.88	18.64	17.98	19.70	18.79	19.86	22.14	23.12	23.39	22.94	22.70
6	21.34	19.87	18.62	18.06	19.64	18.80	19.86	22.16	23.16	23.40	22.88	22.75
7	21.35	19.88	18.75	18.13	19.57	18.81	19.90	22.20	23.21	23.34	22.60	22.85
8	21.35	19.76	18.87	18.21	19.55	18.90	19.92	22.26	23.25	23.29	22.55	22.95
9	20.32	19.80	18.96	18.30	19.49	18.91	19.91	22.30	23.25	23.29	22.54	22.96
10	20.05	19.66	19.07	18.30	19.41	18.92	19.99	22.36	23.26	23.28	22.44	22.96
11	20.30	19.58	19.08	18.40	19.30	18.84	20.09	22.44	23.34	23.39	22.43	22.97
12	20.70	19.48	18.92	18.57	19.30	18.73	20.19	22.53	23.41	23.47	22.43	22.91
13	20.63	19.29	18.80	18.66	19.27	18.64	20.30	22.54	23.45	23.51	22.42	22.99
14	20.20	19.24	18.56	18.71	19.15	18.65	20.40	22.60	23.47	23.50	22.44	23.04
15	19.80	19.20	18.56	18.76	19.07	18.69	20.46	22.70	23.48	23.45	22.43	23.07
16	19.46	18.98	18.37	18.79	19.00	18.73	20.50	22.79	23.36	23.36	22.49	23.03
17	19.09	18.92	18.36	18.89	18.97	18.75	20.59	22.83	23.35	23.29	22.57	23.12
18	18.73	18.72	18.35	18.99	18.94	18.80	20.68	22.90	23.38	23.25	22.57	23.13
19	18.37	18.32	18.48	19.05	18.94	18.95	20.80	22.92	23.38	23.30	22.54	23.08
20	18.04	18.33	18.52	19.16	18.94	19.11	20.93	22.89	23.32	23.30	22.53	22.95
21	17.84	18.25	18.50	19.25	18.94	19.27	21.00	22.78	23.31	23.26	22.56	22.97
22	17.80	18.10	18.45	19.28	18.90	19.41	21.08	22.66	23.25	23.18	22.66	23.00
23	17.66	17.97	18.40	19.24	18.81	19.49	21.18	22.63	23.29	23.08	22.65	22.98
24	17.62	17.93	18.42	19.21	18.69	19.49	21.25	22.61	23.30	22.95	22.58	23.00
25	17.62	17.90	18.36	19.29	18.68	19.47	21.30	22.64	23.30	22.71	22.58	23.01
26	18.03	17.90	17.99	19.41	18.57	19.47	21.40	22.65	23.28	22.70	22.64	22.92
27	18.28	18.09	17.95	19.52	18.47	19.53	21.47	22.64	23.32	22.73	22.70	22.75
28	18.67	18.22	17.57	19.61	18.50	19.56	21.55	22.70	23.34	22.73	22.71	22.59
29	18.97		17.81	19.67	18.50	19.63	21.60	22.85	23.38	22.70	22.71	22.52
30	19.19		17.81	19.65	18.48	19.66	21.60	22.95	23.40	22.67	22.69	22.53
31	19.38		17.90		18.42		21.71	23.04		22.69		22.40

79:1-2 (*907, pp. 100-101; *937, p. 97; 945, p. 126; *987, pp. 141-142; 1017, pp. 328-329; 1024, p. 204). Memphis Light, Gas and Water Division. On Scheibler Road, 1.4 miles northwest of Bartlett.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	73.57	72.22	71.73	71.09	71.01	71.00	71.75	72.63	73.47	73.62	72.60	73.27
2	73.56	72.26	71.75	71.12	71.00	71.10	71.77	72.68	73.49	73.60	72.66	73.31
3	73.47	72.26	71.75	71.13	70.95	71.17	71.73	72.73	73.46	73.60	72.80	73.28
4	73.47	72.22	71.75	71.21	71.05	71.17	71.70	72.72	73.42	73.60	72.92	73.30
5	73.32	72.14	71.72	71.24	71.09	71.20	71.67	72.75	73.40	73.61	72.94	73.25
6	73.27	72.05	71.62	71.15	71.09	71.18	71.63	72.73	73.40	73.62	72.90	73.23
7	73.30	72.05	71.63	71.15	71.12	71.16	71.55	72.79	73.41	73.56	72.80	73.28
8	73.27	71.97	71.61	71.12	71.15	71.23	71.47	72.84	73.42	73.52	72.88	73.30
9	72.99	71.92	71.65	71.16	71.18	71.26	71.42	72.89	73.41	73.52	72.89	73.30
10	72.76	71.90	71.70	71.07	71.17	71.28	71.44	72.97	73.39	73.52	72.89	73.28
11	72.70	71.92	71.70	71.11	71.18	71.24	71.48	73.04	73.43	73.57	73.00	73.22
12	73.00	71.86	71.59	71.15	71.22	71.21	71.55	73.07	73.45	73.63	73.03	73.08
13	73.11	71.77	71.53	71.14	71.25	71.21	71.61	73.05	73.48	.....	73.04	73.11
14	73.10	71.90	71.44	71.10	71.22	71.27	71.70	73.07	73.51	a73.67	73.03	73.12
15	73.14	71.96	71.45	71.09	71.17	71.30	71.80	73.15	73.53	73.69	73.05	73.13
16	73.13	71.95	71.35	71.03	71.14	71.32	71.86	73.18	73.53	73.65	73.11	73.15
17	.....	72.00	71.34	71.06	71.10	71.29	71.91	73.19	73.52	73.58	73.18	73.38
18	.....	72.00	71.35	71.07	71.06	71.30	71.98	73.22	73.53	73.50	73.18	73.43
19	.....	72.00	71.40	71.06	71.05	71.33	72.04	73.25	73.53	73.50	73.15	73.42
20	.....	72.03	71.44	71.08	71.10	71.41	72.10	73.27	73.48	73.47	73.12	73.35
21	a72.81	72.01	71.44	71.10	71.15	71.4[illegible]	72.13	73.30	73.45	73.42	73.17	73.45
22	72.80	71.93	71.41	71.10	71.16	71.56	72.14	73.33	73.40	73.32	73.25	73.48
23	72.67	71.85	71.38	71.05	71.15	71.61	72.22	73.38	73.50	73.20	73.25	73.46
24	72.54	71.83	71.40	71.00	71.08	71.63	72.27	73.40	73.51	73.04	73.15	73.52
25	72.52	71.80	71.36	70.95	71.07	71.64	72.31	73.42	73.52	72.75	73.09	73.53
26	72.55	71.66	71.26	71.00	71.02	71.59	72.37	73.42	73.51	72.73	73.14	73.48
27	72.57	71.73	71.22	71.06	70.98	71.65	72.42	73.39	73.54	72.72	73.18	73.42
28	72.51	71.74	71.01	71.05	71.01	71.70	72.48	73.36	73.55	72.70	73.19	73.33
29	72.43		70.93	71.08	71.04	71.75	72.50	73.41	73.59	72.67	73.13	73.30
30	72.18		71.01	71.05	71.05	71.78	72.49	73.43	73.62	72.61	73.13	73.30
31	72.22		71.05		71.00		72.55	73.45		72.60		73.20

a Tape measurement.

79:1-3 (*907, p. 101; 937, pp. 97-98; 945, pp. 126-127; *987, pp. 142-143; 1017, p. 329; 1024, p. 205). Memphis Light, Gas and Water Division. On Macon Road, 4.5 miles north of Germantown.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	76.82	76.31	76.08	75.59	75.83	75.80	76.35	76.55	76.94	77.17	77.10	77.14
2	76.82	76.37	76.13	75.57	75.84	75.92	76.35	76.53	76.96	77.14	77.04	77.17
3	76.75	76.38	76.13	75.54	75.75	76.00	76.36	76.52	76.97	77.13	77.15	77.10
4	76.75	76.35	76.14	75.63	75.86	76.02	76.36	76.50	76.99	77.15	77.24	77.10
5	76.63	76.28	76.12	75.69	75.92	76.03	76.35	76.53	77.01	77.17	77.24	77.04
6	76.53	76.25	76.04	75.59	75.91	75.98	76.32	76.50	77.02	77.20	77.18	76.97
7	76.62	76.27	76.14	75.60	75.92	75.94	76.33	76.55	77.02	77.12	77.00	77.02
8	76.61	76.22	76.15	75.62	75.97	75.98	76.33	76.60	77.01	77.06	77.09	77.05
9	76.25	76.08	76.23	75.72	75.97	76.02	76.30	76.60	77.00	77.10	77.10	77.06
10	76.13	75.98	76.23	75.72	75.92	76.05	76.30	76.63	76.98	77.11	77.02	77.02
11	76.11	76.01	76.22	75.85	75.91	76.03	76.29	76.68	77.02	77.20	77.20	76.95
12	76.34	76.00	76.09	75.93	75.98	76.00	76.27	76.73	77.03	77.28	77.21	76.88
13	76.38	75.81	75.97	75.88	76.00	76.03	76.27	76.71	77.03	77.32	77.18	76.98
14	76.36	75.87	75.80	75.80	76.00	76.09	76.27	76.71	77.02	77.29	77.10	76.99
15	76.23	75.97	75.84	75.72	75.98	76.13	76.33	76.74	77.03	77.29	77.03	76.97
16	76.21	75.95	75.75	75.72	75.97	76.14	76.34	76.77	77.03	77.25	77.07	76.88
17	76.25	75.92	75.86	75.78	75.97	76.15	76.33	76.75	77.05	77.20	77.18	77.12
18	76.26	75.90	75.95	75.80	76.00	76.13	76.33	76.74	77.08	77.21	77.16	77.15
19	76.17	75.85	75.99	75.77	76.03	76.16	76.35	76.77	77.07	77.27	77.08	77.10
20	76.05	75.98	76.02	75.77	76.08	76.18	76.36	76.81	77.00	77.33	77.02	76.95
21	76.25	75.98	76.01	75.79	76.17	76.23	76.36	76.83	76.97	77.33	77.01	77.02
22	76.32	75.92	75.95	75.79	76.17	76.28	76.36	76.83	76.92	77.29	77.12	77.07
23	76.28	75.87	75.89	75.74	76.12	76.31	76.43	76.85	77.10	77.25	77.10	77.04
24	76.14	75.91	75.91	75.70	76.04	76.27	76.50	76.84	77.13	77.17	76.96	77.05

79:1-3--Continued.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
25	76.14	75.91	75.87	75.67	76.05	76.25	76.50	76.85	77.12	77.05	76.89	77.09
26	76.27	75.83	75.82	75.75	76.03	76.28	76.50	76.90	77.08	77.13	77.01	77.03
27	76.37	76.02	75.82	75.83	76.01	76.32	76.50	76.88	77.08	77.20	77.08	76.95
28	76.37	76.08	75.65	75.80	76.01	76.33	76.53	76.87	77.10	77.25	77.08	76.89
29	76.35		75.52	75.87	75.97	76.33	76.52	76.93	77.14	77.22	77.02	76.99
30	76.14		75.53	75.84	75.93	76.32	76.48	76.95	77.18	77.17	76.99	77.02
31	76.28		75.58		75.87		76.51	76.94		77.13		77.00

79:1-4 (*907, p. 101). Formerly designated as well T-4. Memphis Light, Gas and Water Division. About 100 feet north of Winchester Road, about 350 feet east of Hickory Hill Road, and about 4 miles southwest of Germantown. (Erroneously reported in Water-Supply Paper 907 as at Mount Moriah Road and Robinson Lane.) Measuring point, top of 6-inch coupling, 2 feet above land-surface datum, and 100 feet above arbitrary datum previously used. Measurements during 1941-43 were made by personnel of the Memphis Light, Gas and Water Division. Well became filled with sand and water-level measurements were discontinued in 1943. During July 1946 well was cleaned out and a water-stage recorder was installed July 26, 1946.

Water level, in feet below land-surface datum, 1941-43

Date	Water level	Date	Water level	Date	Water level
Jan. 2, 1941	78.03	Aug. 29, 1941	78.93	June 8, 1942	79.20
6	78.08	Sept. 4	78.93	15	79.24
13	78.12	10	78.97	22	79.25
14	78.13	17	78.98	29	79.26
20	78.14	24	78.98	July 6	79.28
27	78.15	Oct. 1	79.00	13	79.31
Feb. 3	78.19	8	79.02	20	79.33
4	78.19	15	79.04	27	79.35
10	78.17	22	79.09	Aug. 3	79.39
17	78.16	29	79.10	10	79.42
24	78.19	Nov. 5	79.10	17	79.45
Mar. 3	78.20	12	79.12	24	79.47
10	78.20	19	79.14	31	79.49
17	78.22	26	79.15	Sept. 7	79.54
24	78.23	Dec. 3	79.17	14	79.52
31	78.24	10	79.17	21	79.56
Apr. 2	78.22	17	79.19	28	79.58
7	78.21	23	79.19	Oct. 5	79.61
14	78.24	30	79.22	12	79.63
21	78.25	Jan. 6, 1942	79.22	19	79.66
28	78.27	13	79.21	26	79.70
May 5	78.28	20	79.24	Nov. 2	79.72
12	78.30	27	79.24	9	79.74
19	78.33	Feb. 3	79.26	16	79.76
26	78.35	6	79.26	23	79.79
June 2	78.38	10	79.27	30	79.81
9	78.40	17	79.27	Dec. 7	79.83
14	78.43	24	79.27	14	79.86
16	78.44	Mar. 3	79.27	21	79.89
18	78.46	10	79.27	28	79.90
24	78.54	17	79.26	Jan. 4, 1943	79.92
26	78.64	24	79.25	11	79.93
30	78.79	31	79.26	18	79.96
July 2	78.77	Apr. 8	79.26	Feb. 22	80.00
7	78.80	14	79.25	Mar. 1	80.03
11	78.81	21	79.24	8	80.05
14	78.82	27	79.24	15	80.04
21	78.85	May 4	79.23	22	80.04
28	78.86	11	79.23	29	80.04
Aug. 4	78.88	18	79.20	Apr. 5	80.04
11	78.90	22	79.20	12	80.04
18	78.92	25	79.20	19	80.05
25	78.93	June 1	79.20	26	80.05

79:1-4--Continued.

Water level, in feet below land-surface datum, 1941-43

Date	Water level	Date	Water level	Date	Water level
May 3, 1943	80.05	June 14, 1943	80.09	July 26, 1943	80.20
10	80.05	21	80.10	Aug. 2	80.23
17	80.07	28	80.14	9	80.26
24	80.07	July 5	80.14	16	80.27
31	80.07	12	80.14	23	80.30
June 7	80.08	19	80.14		

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	81.17	81.36	81.54	81.40	81.53
2	.....	81.17	81.39	81.52	81.33	81.61
3	.....	81.16	81.39	81.49	81.38	81.62
4	.....	81.15	81.39	81.48	81.49	81.60
5	.....	81.15	81.40	81.50	81.53	81.57
6	.....	81.13	81.41	81.52	81.53	81.47
7	.....	81.13	81.41	81.46	81.34	81.46
8	.....	81.15	81.40	81.39	81.36	81.48
9	.....	81.17	81.40	81.35	81.38	81.50
10	.....	81.19	81.38	81.36	81.34	81.48
11	.....	81.23	81.39	81.40	81.45	81.40
12	.....	81.27	81.41	81.52	81.57	81.23
13	.....	81.28	81.43	81.58	81.59	81.35
14	.....	81.27	81.42	81.59	81.56	81.41
15	.....	81.28	81.42	81.60	81.49	81.42
16	.....	81.30	81.43	81.57	81.47	81.38
17	.....	81.30	81.45	81.51	81.58	81.50
18	.....	81.27	81.47	81.43	81.61	81.60
19	.....	81.27	81.47	81.50	81.60	81.60
20	.....	81.30	81.42	81.57	81.52	81.52
21	.....	81.32	81.34	81.59	81.47	81.43
22	.....	81.33	81.25	81.58	81.53	81.52
23	.....	81.34	81.39	81.55	81.55	81.54
24	.....	81.34	81.47	81.47	81.49	81.52
25	.....	81.33	81.49	81.30	81.35	81.55
26	a 81.15	81.34	81.48	81.34	81.37	81.55
27	81.18	81.33	81.45	81.45	81.48	81.48
28	81.20	81.30	81.47	81.52	81.51	81.37
29	81.17	81.33	81.50	81.52	81.51	81.39
30	81.13	81.35	81.53	81.50	81.48	a 81.52
31	81.14	81.36		81.45		.....

a Tape measurement.

79:3-A (*817, pp. 315-317; 840, p. 375; *845, pp. 437-439; 886, p. 648; 907, pp. 97-98; 937, pp. 95-96; 945, p. 128; *987, p. 143; 1017, pp. 329-330; 1024, p. 206). Memphis Light, Gas and Water Division. In Memphis, on southwest corner of intersection of Sycamore Ave. and Fifth St.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	47.47	47.58	45.17	45.03	49.22	48.00	52.06	54.80	55.87	54.15	52.90	50.11
2	47.43	47.86	45.48	45.68	49.36	47.99	52.07	55.22	55.29	53.90	52.94	50.03
3	47.25	47.86	45.50	46.39	49.35a	46.93	52.44	55.44	54.75	53.51	52.90	49.75
4	47.40a	46.98	45.00	47.08	49.25	46.81	52.44	55.43	55.07	53.28	52.62	49.85
5	47.67	47.10	45.18	47.67	49.20	46.98	52.02	54.99	55.48	53.10	52.40	50.08
6	47.74	47.30	45.52	48.17	48.63	47.35	51.83	55.12	55.87	53.10	52.08	50.44
7	47.63	47.50	45.72	48.15	48.12	47.97	51.83	55.43	56.07	53.00	51.60	50.75
8	47.55	47.50	46.06	47.40	48.25	48.59	51.33	55.60	56.07	53.26	51.47	50.79
9	47.42	47.24	46.12	.....	48.25	48.60	51.50	55.78	55.85	53.46	51.46	50.78
10	47.44	46.64	45.97	.....	48.15	48.18	51.98	55.87	56.19	53.56	51.37	51.00
11	47.31	45.89	45.53	.....	48.10	47.96	52.61	55.79	56.57	53.71	51.18	51.03
12	46.94	45.52	44.94	.....	47.92	48.01	53.01	55.40	56.72	53.71	51.02	51.21

a Tape measurement.

79:3-A--Continued.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
13	46.52	45.35	44.85	.....	47.25	48.19	53.21	55.77	56.73	53.38	50.85	51.40
14	45.84	45.48	44.99	.....	46.78	48.68	53.20	56.35	56.72	52.67	50.85	51.51
15	45.12	45.59	45.17a	46.78	47.13	49.02	52.71	56.78	56.62	52.29	50.93	51.50
16	44.84	45.55	45.17a	46.83	47.47	49.03	52.87	57.12	56.07	52.02	50.98	51.28
17	44.77	45.38	44.99	47.05	47.76	48.86	53.39	57.24	55.75	52.07	50.98	51.17
18	44.68	44.82	44.35	47.47	48.02	49.62	53.84	57.23	55.47	52.37	50.69	51.10
19	44.53	44.52	44.44	47.86	48.03	50.65	54.18	56.71	55.25	52.38	50.34	50.95
20	44.45	44.67	44.80	48.43	47.69	51.51	54.44	56.25	55.09	52.27	50.23	50.79
21	43.90	44.69	45.10	48.57	47.75	52.09	54.44	56.16	55.12	51.97	50.36	50.91
22	43.59	44.65	45.32	48.42	47.85	52.28	54.10	56.08	55.09	51.88	50.46	50.93
23	43.52	44.82	45.47	48.67	47.85	52.28	54.36	56.02	54.63	51.91	50.45	50.74
24	43.77	44.81	45.46	49.32	48.02	51.66	54.70	56.03	54.56	51.85	50.33	50.62
25	43.88	44.27	44.95	49.81	48.08	51.74	54.78	56.02	54.56	51.95	50.09	50.43
26	44.25	43.91	44.95	50.02	48.08	52.10	54.28	55.45	54.62	52.00	49.90	49.63
27	44.24	44.20	44.88	50.05	47.47	52.40	54.42	55.27	54.72	52.02	50.15	48.92
28	43.87	44.99	45.20	49.91	47.42	52.58	54.42	55.54	54.75	51.93	50.25	48.67
29	44.07		45.57	49.36	47.60	52.62	54.05	55.80	54.75	52.17	50.20	48.64
30	44.87		45.28	49.03	47.88	52.61	53.78	55.95	54.45	52.46	50.05	48.49
31	46.10		45.32		48.00		54.29	55.95		52.70		48.52

a Tape measurement.

79:5-193 (*817, pp. 315, 317-319; 840, p. 374; 845, p. 438; 886, p. 648; 907, pp. 96-97; 937, pp. 94-95; 945, pp. 127-128; *987, p. 144; 1017, pp. 330-331; 1024, p. 206). Memphis Light, Gas and Water Division. In Memphis, near Central Ave. and Tanglewood St.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	90.20	89.24	89.15	89.34	90.82	90.70	92.67	95.50	95.58	94.22	92.70	91.61
2	89.83	89.39	89.32	89.50	90.80	90.56	92.35	95.64	94.54	94.22	92.96a	90.85
3	90.41	89.22	89.01	89.70	90.65	90.37	92.10	95.62	93.78	94.31	92.33	.....
4	90.57	89.05	88.85	90.13	90.57	90.53	91.98	95.31	94.26	94.31a	91.57	.....
5	90.32	89.15	89.00	90.15	90.45	90.75	91.51	94.69	94.67	94.20	92.52	.....
6	90.17	89.34	89.06	90.23	89.95	90.92	91.05	94.90	95.00	93.94	92.58	91.86
7	90.22	89.58	89.33	89.76	90.10	90.95	90.70	95.16	95.07	93.59	92.59	91.87
8	90.18	89.47	89.26	89.75	90.25	91.00	91.24	95.50	95.07	93.95	92.09	91.26
9	90.50	88.67	89.60	89.78	90.33	90.94	91.80	95.77	94.70	94.23	92.72	90.45
10	90.68	88.84	89.46	90.00	90.32	90.53	92.37	95.90	95.09	94.28	92.25	90.86
11	90.57	88.06	89.24	90.25	90.08	90.74	92.91	95.81	95.30	94.37	92.33	91.25
12	90.67	88.94	89.06	90.21	89.85	91.13	93.30	95.08	95.54	94.20	92.55	91.43
13	90.37	88.91	89.05	90.04	89.42	91.54	93.33	95.27	95.66	93.31	92.15	91.50
14	89.45	89.15	88.95	90.04	89.62	91.64	93.24	95.55	95.66	92.85	92.55	92.45
15	89.13	89.23	88.95	89.87	89.72	91.67	93.37	95.94	95.37	93.08	92.76	91.87
16	89.13	89.27	89.11	90.17	89.95	91.66	93.75	95.95	94.88	92.77	92.64a	91.72
17	89.96	88.61	88.97	90.46	89.97	91.75	94.16	95.85	95.05	92.25	92.05	.....
18	90.27	88.64	89.10	90.79	90.10	92.12	94.35	95.60	95.13	91.89a	91.18	92.41
19	90.26	88.62	89.22	90.84	90.00	92.55	94.45	95.16	95.14	91.48	.....	92.90
20	89.91	88.99	89.41	90.89	89.71	93.00	94.54	95.37	95.14	90.77	.....	92.27
21	89.41	89.02	89.42	90.82	90.07	93.20	94.54	95.60	95.13	90.35	92.11	92.56
22	88.76	88.94	89.35	90.35	90.35	93.35	94.00	95.84	94.58	90.54	.....	92.31
23	89.19	88.90	89.32	90.66	90.38	93.39	94.34	95.94	94.42	90.57	92.12	92.30
24	88.48	88.69	89.33	90.80	90.37	93.38	94.68	95.88	94.61	90.32	91.64	92.35
25	88.36	88.46	88.87	91.07	90.32	93.23	94.93	95.46	94.79	90.25	91.57	91.73
26	88.56	88.65	88.90	91.27	90.09	93.37	95.20	94.86	94.90	90.19	91.20	90.95
27	87.75	88.97	89.05	91.27	89.86	83.58	95.29	95.05	94.90	89.84	91.97	91.17
28	88.06	89.09	88.95	91.21	90.16	93.76	95.18	95.33	94.90	90.31	91.93	91.19
29	87.62		89.08	90.71	90.37	93.75	94.82	95.58	94.37	91.05	91.67	90.60
30	88.54		89.27	90.81	90.54	93.59	94.95	95.72	93.97	.....	91.70	90.72
31	88.92		89.00		90.66		95.25	95.70		92.18		90.77

a Tape measurement.

79:7-17 (*907, p. 99; 937, p. 98; 945, p. 127; *987, pp. 144-145; 1017, p. 331; 1024, p. 207). Memphis Light, Gas and Water Division. In Memphis, on North Parkway at end of N. Garland St.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	77.71	79.62	78.51	78.65	77.85	75.31	83.08	92.80	87.17	84.50	84.83	79.48
2	77.63	79.92	78.00	80.05	76.80	75.31	86.98	92.90	83.61	82.31	84.91	79.11
3	77.93	79.81	78.00	81.56	76.85	73.31	87.15	92.69	84.83	83.93	84.94	78.80
4	a78.17	78.55	76.70	82.30	76.68	74.16	82.90	91.60	85.66	83.95	82.31	78.10
5	.....	78.70	77.16	82.17	76.65	75.43	81.60	88.76	86.60	83.82	81.90	78.19
6	.....	78.96	78.63	82.23	74.67	76.04	81.90	89.14	87.75	83.81	82.14	79.58
7	.....	79.42	78.22	82.17	75.10	76.09	81.86	89.84	88.01	83.96	81.11	80.44
8	.....	79.63	79.14	80.61	75.80	76.60	81.56	90.75	88.08	84.08	82.32	80.41
9	.....	79.52	79.43	79.29	75.39	76.62	83.40	91.91	87.28	84.33	82.98	79.42
10	.....	78.88	78.86	81.16	75.53	74.56	85.31	92.40	87.91	84.08	81.86	78.30
11	a79.57	77.81	78.44	81.36	74.55	75.41	88.03	90.28	88.24	84.18	80.73	78.84
12	.....	77.90	77.38	81.50	74.60	77.60	.....	88.02	88.40	82.76	80.57	82.20
13	.....	78.00	77.71	81.82	72.76	78.51	.....	90.40	88.52	80.53	80.71	83.43
14	a78.21	78.86	77.83	81.62	73.93	79.12	.....	91.35	88.53	79.24	80.90	83.63
15	.....	77.66	78.27	81.18	74.38	79.73	a85.78	91.46	87.91	79.26	81.40	83.68
16	.....	76.82	78.40	82.14	74.86	79.55	89.34	91.25	86.29	79.40	81.49	83.09
17	.....	76.58	77.45	82.10	75.36	78.74	90.65	90.94	85.88	80.15	81.36	83.50
18	.....	75.63	76.80	83.07	75.22	80.13	90.98	90.27	85.88	80.40	80.24	83.62
19	.....	76.88	77.39	83.22	73.75	81.53	90.72	87.09	85.87	78.52	79.76	83.64
20	.....	77.70	77.40	84.76	74.00	82.30	91.32	88.21	86.15	77.70	80.10	83.44
21	a76.83	77.70	77.31	84.80	74.81	82.75	91.42	89.16	86.17	79.14	80.40	83.23
22	.....	77.47	77.46	83.40	75.68	82.93	89.85	88.96	86.19	78.38	80.58	83.20
23	.....	78.34	77.79	84.70	75.75	82.94	90.70	90.00	84.90	77.79	79.97	82.93
24	a77.22	78.45	77.92	84.94	76.37	81.53	92.00	89.50	84.50	79.40	79.31	83.00
25	77.44	77.68	76.64	85.64	76.78	84.07	92.83	87.00	85.30	79.50	78.66	81.16
26	77.12	78.01	76.93	85.66	74.60	85.35	93.12	86.58	85.10	79.05	79.09	79.08
27	76.79	77.26	77.21	85.06	74.57	86.24	93.13	87.52	85.45	79.33	81.50	78.15
28	77.14	77.68	77.72	85.10	75.12	86.62	92.90	87.89	85.48	79.51	82.16	78.81
29	77.98		78.23	83.20	75.80	86.53	89.99	88.47	84.97	80.25	80.12	78.81
30	78.55		78.14	84.09	75.94	86.38	91.54	88.67	84.46	82.92	79.57	79.23
31	79.17		78.35		75.87		92.39	88.03		84.50		79.98

a Tape measurement.

79:7-26 (*1024, p. 208). Memphis Light, Gas and Water Division. In Memphis, on the grounds of the North Parkway pumping station, about 125 feet east of N. Dunlap St. and about 1,000 feet south of North Parkway.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	64.13	67.72	69.78	67.35	57.17	57.30	55.54	.....	64.71	65.21	71.95	69.69
2	63.30	68.13	67.98	66.20	56.52	57.60	55.47	.....	64.67	65.26	71.42	70.27
3	64.79	67.85	67.47	66.70	56.18	58.61	55.49	.....	64.40	65.21	71.42	69.21
4	64.81	67.42	69.54	68.00	55.92	58.81	55.75	.....	64.38	65.10	71.69	70.32
5	63.77	67.06	71.15	68.36	55.81	56.05	55.75	a59.55	64.30	65.14	71.90	70.45
6	63.83	67.49	69.70	67.98	56.00	57.48	55.43	60.05	64.44	65.19	71.72	70.30
7	64.32	68.90	68.46	61.92	57.64	57.74	55.48	60.57	64.40	74.66	71.16	69.97
8	65.10	68.73	68.32	64.75	56.48	57.90	56.40	59.56	63.28	74.93	71.14	69.88
9	65.87	68.37	61.15	62.09	56.04	58.05	59.71	61.65	62.78	73.97	71.20	70.56
10	66.03	67.86	61.44	60.05	56.00	58.67	.....	62.06	64.95	73.35	70.80	70.82
11	a58.22	67.87	a68.71	65.22	55.90	57.57	.....	61.37	65.38	72.97	71.36	70.90
12	.....	67.71	68.92	59.41	55.90	57.87	.....	61.30	64.35	74.25	71.26	70.81
13	.....	67.25	67.90	58.60	a55.71	57.88	.....	63.00	64.31	73.86	70.70	70.60
14	a56.46	67.03	67.96	58.04	.....	57.95	.....	63.20	64.15	73.70	70.93	70.07
15	57.51	67.23	66.70	57.50	a55.35	58.20	a57.17	63.61	64.30	73.55	61.78	69.94
16	57.77	.....	66.30	57.57	55.35	58.31	58.78	64.40	64.32	72.70	62.40	69.40
17	57.90	.....	65.67	.....	55.38	a66.78	59.02	64.11	64.47	72.50	62.81	69.02
18	58.00	a66.39	65.65	.....	55.10	58.37	59.11	63.83	64.55	72.14	a61.80	68.97
19	58.01	66.66	65.93	.....	55.20	58.14	59.17	63.89	64.60	72.25	.....	68.95
20	58.01	66.50	67.31	.....	55.23	58.04	59.29	63.74	64.55	72.38	72.29	68.69
21	a58.22	65.53	66.31	.....	57.00	58.08	58.68	63.46	64.49	72.42	71.03	70.85
22	66.14	64.60	68.62	a68.17	55.80	58.60	58.73	63.20	64.71	71.77	71.35	71.48
23	65.15	63.83	69.52	68.10	55.13	58.60	62.17	63.30	64.98	71.26	71.10	71.38

a Tape measurement.

79:7-26--Continued.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
24	66.72	63.42	69.89	68.82	53.48	58.41	62.90	63.43	65.04	71.08	70.46	70.55
25	67.12	65.12	69.91	66.80	53.51	58.08	63.58	63.53	64.88	70.96	70.86	67.77
26	67.04	65.56	69.95	66.63	53.49	56.88	64.10	63.87	64.86	71.12	70.67	68.67
27	67.20	66.68	70.56	60.18	55.26	56.75	64.40	64.56	64.80	71.29	70.17	68.23
28	67.25	68.59	70.23	60.33	55.92	56.14	63.38	65.30	64.76	71.51	69.96	68.51
29	67.27		65.43	a69.02	56.53	55.95	63.53	66.48	65.02	71.65	70.00	68.66
30	67.34		66.79	60.28	57.00	55.76	60.91	65.44	65.17	71.75	69.60	a68.50
31	67.91		66.64		57.13		.....	64.70		71.90		.....

a Tape measurement.

79:7-34 (*1017, pp. 331-332; 1024, p. 208). Memphis Light, Gas and Water Division. In Memphis, in lot between Leath and Dunlap Sts., about 250 feet north of North Parkway.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	.....	92.22	89.32	91.80	93.21	89.85
2	.....	91.20	89.51	92.95	93.19	88.50
3	.....	90.70	89.09	95.77	93.16	86.77
4	a90.81	89.31	87.55	97.80	92.84	89.50
5	91.25	89.76	89.11	98.60	91.74	91.33
6	91.23	90.21	89.12	98.54	a87.71	91.41
7	91.14	90.71	89.60	94.12	.....	92.61
8	.....	90.51	89.44	93.22	.....	91.40
9	.....	89.47	88.98	92.35	.....	89.75
10	.....	88.30	88.06	94.44	.....	89.56
11	a89.26	88.60	85.80	94.85	.....	90.10
12	89.28	88.60	85.80	94.74	.....	91.19
13	88.22	87.93	85.99	93.15	a85.46	92.22
14	86.72	89.07	87.88	91.86	90.69	94.62
15	.....	89.03	88.35	92.05	90.87	94.62
16	.....	88.97	88.05	92.72	92.37	91.24
17	.....	87.77	85.65	96.48	91.86	91.20
18	.....	88.99	85.30	97.30	90.90	97.80
19	.....	89.72	89.68	96.89	88.50	99.32
20	.....	90.11	89.65	96.89	91.70	99.63
21	a84.71	90.26	87.30	95.70	91.61	100.10
22	88.49	89.36	87.87	96.35	91.99	99.94
23	88.55	89.73	88.96	97.34	92.81	98.34
24	88.61	89.11	88.48	98.35	92.43	97.79
25	88.56	87.43	86.10	98.76	.....	100.66
26	88.28	88.50	86.60	98.60	.....	100.14
27	87.28	88.75	.....	98.24	a90.89	100.15
28	87.42	89.36	.....	96.82	a92.30	99.60
29	88.48		90.50	96.48	93.14	99.36
30	89.61		93.20	96.48	92.96	98.43
31	92.20		93.20		91.90	

a Tape measurement.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	94.55	99.34	96.70	.....	98.96	93.73
2	95.95	101.60	96.06	.....	98.66	94.09
3	95.93	100.44	98.20	.....	97.80	94.45
4	94.47	97.68	97.91	.....	96.15	96.15
5	93.70	100.56	102.05	.....	96.14	96.63
6	93.48	103.20	102.68	.....	96.70	96.98
7	92.11	103.19	102.51	a93.26	96.81	97.18
8	93.15	101.74	101.35	93.19	97.04	.....
9	96.40	102.76	101.88	93.22	97.03	a95.94
10	98.12	102.70	102.65	93.20	96.60	97.61
11	99.00	101.54	102.81	93.41	95.37	97.61
12	96.26	101.51	102.80	92.95	96.20	97.96
13	96.13	102.84	102.75	92.22	.....	98.22

a Tape measurement.

79:7-34--Continued.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
14	94.23	103.75	102.17	93.50	.....	98.15
15	95.43	102.62	100.54	93.70	.....	97.90
16	97.20	103.23	99.75	94.00	.....	a96.12
17	98.06	103.00	98.77	94.30	.....	96.87
18	98.30	102.55	98.54	94.60	a94.76	97.30
19	98.77	100.28	98.46	93.80	95.18	97.70
20	98.92	101.30	99.55	92.94	95.18	97.60
21	98.27	101.24	99.44	95.48	93.50	97.45
22	97.85	99.55	97.82	96.00	93.57	97.36
23	98.64	100.16	96.23	96.06	92.77	96.66
24	99.28	99.95	95.05	96.20	91.93	96.62
25	99.81	97.87	96.28	96.24	91.93	93.13
26	100.00	97.78	96.06	96.19	92.75	92.65
27	99.77	98.79	96.04	96.02	97.59	92.64
28	97.68	99.27	95.20	96.50	97.63	93.00
29	96.44	101.58	94.52	97.50	94.68	.....
30	97.87	99.78	94.55	98.33	94.68	a91.63
31	99.25	98.80		99.06		95.57

a Tape measurement.

79:8-56 (*1024, p. 209). Memphis Light, Gas and Water Division. In Memphis, on the grounds of the Sheahan pumping station, about 50 feet east of Normal St. and about 0.5 mile south of Central Ave.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	75.60	85.67	84.65	84.00	79.52	77.38	75.22	90.95	89.79	92.37	81.33	87.36
2	75.69	85.67	84.65	83.89	83.60	77.83	75.02	90.97	89.83	92.42	81.24	87.47
3	75.94	85.55	84.55	83.85	86.40	78.04	79.48	86.41	90.08	92.35	81.23	87.47
4	75.96	85.42	84.47	83.53	83.32	76.37	80.30	85.75	90.49	92.43	81.27	87.50
5	75.91	84.62	84.41	83.46	83.08	75.68	80.61	85.64	90.59	88.14	81.27	87.40
6	75.90	86.39	84.42	83.62	82.95	75.21	80.87	85.55	90.60	87.51	76.07	87.30
7	75.82	85.39	84.50	83.74	83.25	74.39	81.08	85.62	90.74	87.19	74.67	87.40
8	75.80	86.93	84.35	83.71	83.34	74.46	81.18	85.68	90.82	86.95	74.30	87.40
9	75.91	87.28	84.43	83.51	83.34	74.43	81.23	85.52	90.85	86.97	73.88	87.31
10	82.88	87.62	84.53	83.45	83.05	78.36	85.90	85.47	90.71	86.82	73.40	87.37
11	83.96	87.74	84.63	83.64	82.97	79.40	86.78	85.68	91.17	86.77	73.18	87.40
12	84.65	86.07	84.46	83.74	82.99	79.59	87.37	85.58	91.30	84.40	73.16	87.63
13	84.79	87.15	84.37	83.69	82.98	77.96	87.38	85.58	91.31	83.85	72.98	88.08
14	84.81	87.45	84.24	80.80	82.90	77.75	87.65	85.35	91.43	83.60	72.70	88.15
15	85.21	85.78	84.27	80.31	82.91	78.67	87.99	85.26	91.70	83.43	78.11	88.15
16	85.55	85.45	84.33	79.78	83.07	76.92	88.40	85.20	91.92	83.13	79.89	88.01
17	85.78	85.31	84.40	79.61	83.09	78.33	88.32	85.15	91.84	82.85	80.62	88.31
18	85.85	85.23	84.43	79.47	83.25	78.00	88.55	85.40	91.90	82.57	80.93	87.95
19	85.87	84.95	84.45	79.31	83.25	75.45	88.73	85.44	91.90	82.54	81.10	87.88
20	85.92	85.03	84.47	79.30	83.15	75.32	88.88	85.46	91.87	82.34	81.30	87.67
21	86.07	85.02	84.44	79.50	83.18	75.38	89.04	85.48	91.90	82.20	85.37	87.65
22	86.19	84.79	84.20	79.60	83.21	75.34	89.25	85.40	91.89	82.15	86.17	87.74
23	86.06	84.78	84.28	79.62	83.21	75.12	89.37	85.35	92.12	81.95	86.34	87.70
24	86.08	84.77	84.32	79.61	82.98	74.95	89.45	85.38	92.15	81.86	86.42	87.57
25	86.10	84.65	84.17	79.57	83.00	79.75	89.60	85.35	92.18	81.58	86.52	87.57
26	86.08	84.40	84.15	79.65	82.82	80.93	89.98	88.84	92.16	81.63	87.00	87.38
27	86.08	84.53	84.13	79.75	82.57	81.38	90.32	89.10	92.14	81.66	87.10	87.15
28	85.99	84.60	83.92	79.72	82.55	81.56	90.43	89.34	92.15	81.63	87.06	86.80
29	85.90		83.94	79.70	82.53	76.50	90.54	89.83	92.25	81.56	87.03	87.05
30	85.65		84.00	79.66	82.35	75.58	90.62	90.02	92.32	81.46	87.06	87.09
31	85.68		84.02		79.07		90.77	90.14		81.38		86.92

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79:8-73. Memphis Light, Gas and Water Division. In Memphis, about 300 feet north of Central Ave. and about 800 feet east of Normal St. Drilled well, diameter 8 inches, depth 499 feet. Measuring point, top of 8-inch coupling, 0.2 foot above land-surface datum. Equipped with water-stage recorder on Jan. 30, 1946.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	.....	.....	.....	a98.84	108.40	115.80
2	.....	.....	.....	99.11	108.84	115.53
3	.....	.....	.....	99.15	116.51	115.52
4	.....	a99.51	a99.04	99.20	116.37	115.62
5	.....	.....	99.05	99.30	115.15	115.87
6	.....	.....	98.96	99.24	114.74	114.72
7	.....	.....	99.09	.....	115.40	114.87
8	.....	.....	.....	a98.04	115.62	114.45
9	.....	.....	.....	98.27	115.53	114.47
10	.....	.....	.....	98.27	114.90	115.12
11	.....	a98.75	a95.90	98.36	114.72	114.92
12	.....	99.12	98.50	98.50	114.77	112.80
13	.....	98.93	98.63	98.60	114.70	112.98
14	.....	.....	98.70	98.60	114.64	114.13
15	.....	.....	98.76	98.65	114.62	114.16
16	.....	.....	.....	98.99	114.90	114.13
17	.....	.....	.....	99.15	115.01	114.83
18	.....	a98.64	a98.87	99.20	115.16	114.99
19	.....	99.47	98.96	99.08	115.05	115.47
20	.....	99.83	99.02	99.14	115.60	115.69
21	.....	.....	98.97	98.96	115.90	115.85
22	.....	.....	98.74	98.81	116.00	115.97
23	.....	.....	98.76	99.22	115.98	115.20
24	.....	.....	98.79	99.36	114.86	115.12
25	.....	a98.00	a98.36	99.55	114.65	114.98
26	.....	98.55	98.42	99.66	114.69	115.13
27	.....	99.23	98.45	99.77	114.60	115.17
28	.....	.....	98.28	99.27	114.63	115.40
29	.....		98.15	99.08	114.61	115.10
30	a99.38		.....	107.20	115.01	115.03
31	.....		.....		115.55	

a Tape measurement.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	114.23	116.93	112.39	106.75	100.08	99.37
2	114.85	117.11	111.89	107.45	96.80	99.46
3	115.02	115.98	111.86	107.72	96.80	99.40
4	114.27	114.85	112.10	105.61	97.13	99.39
5	114.12	114.96	114.27	104.82	97.79	99.27
6	113.98	114.72	115.24	104.77	97.90	99.18
7	113.96	114.35	115.44	105.41	98.92	99.29
8	112.38	115.11	114.37	106.27	100.55	98.63
9	112.90	115.08	114.70	108.98	100.62	98.68
10	113.86	114.88	114.88	109.20	100.55	99.03
11	114.83	114.88	115.25	109.32	100.80	99.13
12	115.05	113.94	112.64	109.30	100.88	99.32
13	115.23	114.27	110.95	108.54	100.89	.....
14	114.06	114.51	110.68	108.08	100.81	.....
15	114.45	114.39	109.58	109.02	100.78	.....
16	114.82	114.48	109.18	109.23	100.22	.....
17	115.20	114.51	108.73	109.10	99.96	102.20
18	115.49	114.41	109.18	108.03	99.82	101.99
19	115.64	114.21	109.50	107.81	99.67	101.77
20	115.77	114.38	110.00	101.40	99.60	101.59
21	115.79	114.46	108.19	100.99	99.64	101.54
22	115.09	113.96	107.70	100.77	99.14	101.62
23	115.82	113.80	107.99	100.49	99.08	101.55
24	116.15	113.55	108.16	100.30	98.88	101.45
25	116.30	113.40	108.25	99.82	98.66	101.47

79:8-73--Continued.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
26	116.52	113.20	107.31	99.55	98.81	101.18
27	116.33	112.78	106.85	99.59	99.15	100.96
28	115.59	112.83	106.81	99.67	99.25	100.89
29	115.37	113.30	106.70	99.84	99.19	101.10
30	116.22	113.43	106.70	100.03	99.10	104.28
31	116.44	113.55		100.14		103.96

79:11-1 (*1017, p. 332; 1024, p. 210). Forest Products Chemical Co. In Memphis, in engine room of plant, about 300 feet south of Chelsea Ave. and about 1,200 feet east of Fairfax St.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	61.20	61.74	61.61	59.17	59.86	59.34	59.24	64.86	63.52	62.90	63.14	63.31
2	62.81	61.78	61.50	60.30	59.48	58.84	58.60	64.90	60.45	62.95	63.54	63.25
3	.....	60.59	59.89	60.36	59.66	58.67	58.06	64.55	61.82	63.49	62.00	63.44
4	a61.49	60.58	60.31	60.32	59.08	59.32	57.96	63.60	62.57	63.29	62.46	63.55
5	62.50	60.68	60.48	61.50	57.97	59.92	57.15	63.61	.....	63.20	63.44	63.55
6	61.00	61.16	60.73	60.60	58.48	59.33	56.70	.....	.....	63.15	63.28	65.04
7	61.75	61.20	60.58	59.43	58.78	59.77	57.56	.....	63.81	63.20	63.26	65.10
8	61.99	61.38	60.70	59.72	59.30	59.90	59.46	.....	62.14	62.92	63.42	63.74
9	61.53	61.34	61.02	60.01	59.01	58.85	60.78	65.36	62.82	63.39	64.05	61.38
10	62.32	59.83	59.85	60.17	59.05	58.20	60.91	65.22	63.45	63.00	63.13	62.54
11	62.73	60.27	60.61	60.37	59.05	58.48	61.34	.....	64.10	63.01	63.91	63.43
12	62.46	60.14	60.31	61.08	58.60	60.03	61.85	a62.12	64.21	63.22	63.63	63.87
13	61.21	60.88	60.70	60.73	58.00	60.54	61.56	64.12	64.58	61.70	63.83	65.28
14	61.81	61.24	60.66	60.19	58.27	60.64	61.89	64.66	64.34	62.25	63.54	65.24
15	62.62	61.62	60.67	59.69	58.21	61.06	62.26	64.92	62.85	62.29	64.13	.....
16	62.63	61.36	59.63	60.48	58.31	60.93	62.36	65.40	63.31	61.74	64.12	a63.64
17	62.60	60.34	59.12	60.25	58.38	61.15	62.49	64.94	63.41	59.30	63.13	.....
18	63.30	60.28	59.68	60.79	58.71	61.57	62.74	.....	63.93	58.43	63.61	.....
19	61.94	61.03	60.61	60.28	58.31	62.01	62.89	a62.07	63.80	57.65	62.99	.....
20	60.80	61.24	60.57	60.21	58.06	62.16	62.82	64.29	63.75	56.56	63.96	.....
21	60.96	61.25	60.59	59.83	59.83	62.36	61.94	64.85	63.73	56.41	63.69	.....
22	61.51	60.78	60.54	59.38	59.47	62.34	61.57	65.00	62.54	56.50	63.80	.....
23	61.60	61.05	60.57	59.85	58.81	62.37	62.04	65.08	63.14	56.45	63.86	a63.49
24	61.72	59.83	59.94	60.07	58.87	63.04	63.14	65.09	63.42	55.93	62.99	.....
25	61.50	60.06	59.30	60.07	58.68	62.52	63.07	.....	63.71	55.72	62.76	.....
26	59.87	60.40	59.90	60.22	58.17	63.03	63.52	a62.96	63.90	55.44	62.88	.....
27	59.12	61.30	60.20	60.48	57.68	63.14	63.62	64.02	64.11	57.18	64.00	.....
28	59.81	61.72	59.90	59.39	58.68	63.10	63.63	64.29	63.70	59.60	64.39	.....
29	60.30		60.19	59.08	59.40	63.00	64.19	64.77	62.25	61.01	63.74	.....
30	61.01		60.00	59.50	58.95	62.43	.....	64.71	62.92	61.53	63.76	a61.23
31	61.00		58.74		59.65		.....	64.42		62.55		.....

a Tape measurement.

79:14-10. War Assets Administration. In Memphis, on the property of the Buckeye Cotton Oil Co., about 0.35 mile south of Jackson Ave. and about 0.4 mile east of Scott St. Drilled well, diameter 24 to 10 inches, depth 1,377 feet. Measuring point, top of 1½-inch hole in pump base, 3.6 feet above land-surface datum.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Aug. 20	49.05	Sept.25	51.15	Nov. 6	47.06	Dec. 3	49.95
29	49.54	Oct. 8	51.83	13	44.85	12	53.43
Sept.11	49.47	15	50.04	20	47.35	17	54.34
17	50.35	29	47.70	27	48.29	26	52.15

79:16-1 (*1017, pp. 332-333; 1024, p. 210). Layne & Bowler, Inc. In Memphis, in well house next to University St. and about 250 feet south of Chelsea Ave.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	58.51	Apr. 1	56.31	July 8	57.08	Oct. 14	59.50
7	58.64	8	56.71	15	60.71	21	55.24
14	58.26	15	57.00	22	60.72	28	55.67
21	57.07	22	57.13	29	62.44	Nov. 4	59.36
28	55.72	29	57.27	Aug. 5	61.83	12	60.08
Feb. 4	57.24	May 6	55.40	12	62.04	18	59.55
11	56.68	13	54.57	19	62.13	25	59.45
18	56.68	27	55.02	26	61.76	Dec. 2	59.70
25	56.48	June 3	55.70	Sept. 9	61.75	9	58.61
Mar. 4	56.82	10	55.96	16	61.60	16	60.90
11	57.22	17	58.31	23	60.74	23	60.96
19	56.73	24	60.48	30	60.75	30	59.03
25	55.66	July 1	58.77	Oct. 7	61.06		

79:19-1 (*1017, p. 333; 1024, p. 211). Oliver Finnie Co. In Memphis, about 50 feet south of Vance Ave., and about 450 feet west of S. Front St., in basement of plant.

Water level, in feet below land-surface datum, 1946

Jan. 2	96.01	Apr. 2	98.51	July 9	105.15	Oct. 8	107.60
7	96.74	9	98.79	16	107.28	15	104.19
15	94.11	16	98.95	23	109.16	21	104.03
22	92.15	23	101.72	30	109.61	29	105.12
29	93.50	30	100.95	Aug. 6	110.21	Nov. 6	103.14
Feb. 5	95.79	May 7	100.03	13	110.57	13	102.67
12	93.33	14	99.70	20	109.88	19	101.93
19	93.67	28	101.37	27	109.56	26	102.24
26	93.73	June 4	99.84	Sept. 3	108.40	Dec. 3	101.95
Mar. 5	94.53	11	101.98	10	110.51	10	103.33
12	94.65	18	103.90	17	109.98	17	102.91
19	94.74	25	105.48	24	108.59	24	102.40
26	94.60	July 2	105.83	Oct. 1	106.06	31	99.67

79:20-4 (*987, pp. 145-146; 1017, p. 333; 1024, p. 211). Memphis Generating Co. In Memphis, just east of Fourth St., and about 500 feet north of Iowa Ave.

Water level, in feet below land-surface datum, 1946

Jan. 2	94.48	Apr. 2	95.53	July 9	101.79	Oct. 8	106.63
7	94.07	9	96.84	16	105.42	15	103.43
15	92.34	16	99.50	23	105.94	21	104.80
22	90.78	23	98.29	30	108.48	29	103.94
29	91.28	30	98.17	Aug. 6	107.31	Nov. 6	103.46
Feb. 5	92.77	May 7	98.17	13	111.32	13	101.63
12	91.64	14	99.95	20	108.50	19	101.53
19	91.61	28	97.56	27	108.86	26	102.76
26	92.43	June 4	97.60	Sept. 3	106.40	Dec. 3	99.28
Mar. 5	92.53	11	98.73	10	106.89	10	105.19
12	93.19	18	101.63	17	108.79	17	101.27
19	94.27	25	103.79	24	107.50	24	105.50
26	93.10	July 2	103.05	Oct. 1	104.60	31	97.99

79:22-1 (*1024, p. 211). The Liquid Carbonic Corporation. In Memphis, about 375 feet north of McLemore Ave., and about 400 feet west of Florida St.

Water level, in feet below land-surface datum, 1946

Jan. 2	110.80	Feb. 19	107.25	Apr. 9	111.34	June 4	112.77
7	103.85	26	101.27	16	112.30	11	113.45
15	107.24	Mar. 5	101.98	23	112.31	18	115.48
22	100.31	12	102.73	30	112.64	25	116.87
29	100.69	19	109.15	May 7	112.14	July 2	116.86
Feb. 5	103.66	26	109.04	14	112.50	9	116.88
12	106.49	Apr. 2	109.77	28	112.64	16	118.36

79:22-1--Continued.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 23	119.47	Sept. 3	120.79	Oct. 15	118.08	Nov. 26	109.06
30	120.89	10	121.80	21	111.22	Dec. 3	115.83
Aug. 6	121.06	17	117.76	29	117.77	10	117.02
13	121.62	24	119.28	Nov. 6	116.13	17	109.16
20	121.61	Oct. 1	119.46	13	109.59	24	108.51
27	121.19	8	118.98	19	109.12	31	108.03

79:23-1 (*1017, p. 333; 1024, p. 212). Memphis Park Commission. In Memphis, at south end of lake in Riverside Park.

Water level, in feet below land-surface datum, 1946

Jan. 2	94.89	Apr. 30	95.38	July 23	98.07	Oct. 21	99.17
7	94.65	May 7	95.11	30	100.09	29	100.65
15	92.25	14	95.09	Aug. 6	100.09	Nov. 13	98.96
29	91.27	28	94.89	13	100.83	19	98.70
Feb. 5	91.77	June 4	94.83	20	102.72	26	98.55
12	91.10	11	95.05	27	103.80	Dec. 3	98.13
19	90.51	18	96.44	Sept. 3	104.15	10	99.43
26	90.54	25	96.69	10	101.30	17	98.58
Mar. 12	92.17	July 2	95.89	17	101.25	24	98.24
26	91.97	9	97.37	24	99.87	31	97.94
Apr. 16	94.21	16	97.57	Oct. 15	100.01		

79:25-1 (*1017, p. 334; 1024, p. 212). Apex Laundry Co. In Memphis, in lot between Rozelle and Kyle Sts., about 225 feet south of Lamar Ave.

Water level, in feet below land-surface datum, 1946

Jan. 2	98.11	Apr. 2	96.83	July 9	99.67	Oct. 7	102.67
7	97.81	9	97.15	16	99.93	14	102.12
15	97.86	16	97.34	23	100.42	21	100.36
22	96.87	23	97.63	29	100.99	28	99.61
29	95.89	30	97.96	Aug. 5	101.50	Nov. 6	99.89
Feb. 5	96.16	May 7	98.11	12	101.97	13	100.04
12	96.37	14	97.62	19	102.32	18	100.14
19	96.40	28	97.85	26	102.61	25	100.18
26	96.41	June 4	97.99	Sept. 3	102.76	Dec. 2	100.18
Mar. 5	96.43	11	98.15	9	102.79	9	100.19
12	96.57	18	98.41	16	102.93	17	100.21
19	96.63	25	99.10	23	103.00	23	100.27
26	96.77	July 2	99.58	30	102.97	30	100.21

79:26-2 (*1017, p. 334; 1024, p. 212). C. S. Chapman. On Raleigh-Millington Road, about 0.7 mile north of Raleigh. Erroneously reported as on Mill Road in Water-Supply Papers 1017 and 1024.

Water level, in feet below land-surface datum, 1946

Jan. 4	76.60	Apr. 1	74.12	July 8	74.47	Oct. 7	77.22
11	76.10	8	74.22	15	74.95	14	76.89
14	76.11	15	74.04	22	75.62	21	76.50
21	75.82	22	74.04	29	75.81	28	75.79
28	75.34	29	74.25	Aug. 5	76.21	Nov. 4	76.15
Feb. 4	75.42	May 6	74.25	12	76.70	12	76.13
11	74.97	13	74.31	19	76.91	18	76.48
18	75.20	27	74.01	26	76.99	25	76.89
25	75.02	June 3	74.13	Sept. 2	77.07	Dec. 2	76.26
Mar. 4	74.70	10	74.30	9	76.93	9	76.89
11	74.69	17	74.44	16	77.04	16	77.08
19	74.72	24	74.90	23	77.07	23	77.59
25	74.55	July 1	75.15	30	76.94	30	76.43

79:27-2 (*1024, p. 213). The Wallace Sanitarium. East of Memphis city limits, about 600 feet north of Wallace Road and about 0.35 mile east of Goodlett St.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	85.07	Apr. 1	83.47	July 8	86.90	Oct. 7	86.57
7	84.94	8	83.40	15	86.93	14	86.71
14	84.85	15	83.23	22	87.05	21	86.87
21	84.70	22	83.19	29	87.20	28	85.14
28	84.49	29	83.20	Aug. 5	87.24	Nov. 4	85.13
Feb. 4	84.27	May 6	83.60	13	87.39	12	80.08
11	84.06	13	84.16	19	87.60	18	80.27
18	83.78	27	85.12	26	87.77	25	81.23
25	83.69	June 3	85.54	Sept. 2	87.85	Dec. 2	80.77
Mar. 4	83.66	10	85.93	9	87.70	9	81.59
11	83.61	17	86.16	16	87.51	16	80.71
19	83.57	24	86.53	23	87.08	23	81.20
25	83.54	July 1	86.79	30	86.56	30	78.24

79:28-2 (*1017, pp. 334-335; 1024, p. 213). Virginia Carolina Chemical Co. In Memphis, about 375 feet east of Collins St., and about 700 feet north of Poplar Ave. Nearby well pumping at time of each measurement.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	43.60	Apr. 1	40.39	July 8	38.87	Oct. 7	42.18
7	43.66	8	40.85	15	38.77	14	43.05
14	43.13	15	40.50	22	38.44	21	43.13
21	43.22	22	40.14	29	42.77	28	43.13
28	42.96	29	39.84	Aug. 5	40.68	Nov. 4	43.11
Feb. 4	42.21	May 6	39.59	12	40.85	12	43.25
11	41.88	13	39.97	19	42.59	18	a 39.60
18	42.23	27	39.35	26	42.80	25	42.97
25	41.65	June 3	39.37	Sept. 2	41.60	Dec. 2	43.30
Mar. 4	41.53	10	39.23	9	41.58	9	43.01
11	41.73	17	38.95	16	41.66	16	43.10
19	41.13	24	38.90	23	41.73	23	41.76
25	40.64	July 1	39.66	30	41.82	30	43.79

a Nearby well shut down.

79:32-4 (*987, pp. 147-149; 1017, p. 335; 1024, p. 214). Bannon Ice & Fuel Co. In Memphis, about 150 feet south of Auction Ave., and about 150 feet east of N. Seventh St.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	54.32	Apr. 1	55.80	July 8	62.54	Oct. 7	62.78
7	56.18	8	57.03	15	64.48	14	60.55
14	53.14	15	57.40	22	65.55	21	61.02
21	51.76	22	58.34	29	65.59	28	62.13
28	50.99	29	57.44	Aug. 5	67.81	Nov. 4	62.12
Feb. 4	54.48	May 6	57.00	12	67.75	12	60.15
11	52.87	13	55.39	19	66.33	18	59.41
18	53.00	27	57.34	26	66.12	25	58.92
25	52.55	June 3	55.53	Sept. 2	65.47	Dec. 2	58.63
Mar. 4	53.56	10	58.49	9	68.13	9	61.99
11	53.36	17	60.38	16	66.42	16	61.77
19	53.54	24	62.43	23	64.29	23	61.83
25	53.46	July 1	63.20	30	64.17	30	57.33

79:33-2 (*1024, p. 214). Memphis State College. In Memphis, in pump house, about 600 feet south of Norriswood Ave. and about 700 feet east of Patterson St.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	102.59	Mar. 25	100.89	July 15	106.59	Oct. 14	108.14
7	101.79	Apr. 1	101.59	22	106.59	21	107.31
14	102.69	8	101.99	Aug. 5	107.45	28	105.61
21	102.18	29	102.60	19	109.11	Nov. 4	106.28
Feb. 4	101.46	May 6	108.95	26	107.10	25	104.57
25	100.15	June 10	104.57	Sept. 9	106.20	Dec. 2	105.73
Mar. 4	101.21	17	107.63	16	105.18	23	102.29
11	100.99	24	108.52	30	105.64	30	103.50
19	101.69	July 8	104.66				

79:34-1 (*1017, p. 335; 1024, p. 214). H. Blockman & Co. In Memphis, about 250 feet south of Mallory Ave., and about 600 feet east of S. Third St.

Water level, in feet below land-surface datum, 1946

Jan. 2	38.01	Feb. 12	35.28	Mar. 26	36.10	May 7	38.88
7	37.98	19	34.72	Apr. 2	36.23	14	39.01
15	36.57	26	34.55	9	36.99	Dec. 17	42.13
22	34.83	Mar. 5	35.44	16	37.47	24	41.06
29	34.81	12	36.11	23	37.93	31	41.06
Feb. 5	35.84	19	36.23	30	38.99		

79:35-1 (*1017, p. 335; 1024, p. 215). A. J. Green. In Brunswick, about 350 feet east of Brunswick Road and about 0.15 mile north of the Brunswick railroad depot. Water levels, in feet below land-surface datum, 1946: Jan. 18, 0.63; Feb. 14, 0.44. Measurements discontinued after Feb. 14.

79:36-1 (*1024, p. 215). Oakville Memorial Sanatorium. In pump house, about 675 feet northwest of Getwell Road and about 1,200 feet southwest of U. S. Highway 78.

Water level, in feet below land-surface datum, 1946

Jan. 2	60.49	Apr. 2	59.59	July 9	61.63	Oct. 8	61.04
7	61.81	9	59.45	16	60.40	15	61.36
15	60.14	16	60.07	23	60.59	22	61.24
22	60.57	23	59.44	30	60.76	29	60.87
29	59.82	30	59.57	Aug. 6	60.87	Nov. 6	60.99
Feb. 5	59.64	May 7	59.80	13	61.15	13	61.06
12	59.63	14	59.86	20	61.27	19	60.97
19	59.44	28	59.84	27	61.36	26	60.79
26	59.29	June 4	60.19	Sept. 3	61.31	Dec. 3	60.89
Mar. 5	59.50	11	60.22	10	61.30	12	60.40
12	59.56	18	60.17	17	61.38	17	60.90
19	59.53	25	60.99	24	61.44	31	60.71
26	59.40	July 2	61.33	Oct. 1	61.33		

79:36-2 (*1024, p. 215). Oakville Memorial Sanatorium. In pump house, about 750 feet northwest of Getwell Road and about 900 feet southwest of U. S. Highway 78.

Water level, in feet below land-surface datum, 1946

Jan. 2	57.62	Apr. 16	54.87	July 16	54.67	Sept.24	54.52
7	53.79	23	52.36	23	53.35	Oct. 22	54.10
15	53.49	30	52.56	Aug. 6	56.60	Nov. 6	53.95
22	53.21	May 7	52.68	13	53.71	13	53.91
29	53.04	June 4	53.27	20	55.04	26	53.85
Feb. 19	55.31	11	54.89	27	54.60	Dec. 3	54.09
Mar. 12	52.84	18	55.00	Sept.10	56.18	17	53.83
19	52.59	25	53.09	17	54.80	24	53.64
26	52.90	July 2	53.71				

79:37-1 (*1017, pp. 335-336; 1024, p. 216). Whitehaven High School. In Whitehaven, about 250 feet west of U. S. Highway 51 and about 0.35 mile south of Capleville-Whitehaven Road.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	42.96	Apr. 2	36.13	July 9	37.57	Oct. 8	41.25
7	42.84	9	35.46	16	37.87	15	41.48
15	42.44	16	35.26	23	38.17	22	41.69
22	41.83	23	35.17	30	38.50	29	41.86
29	41.26	30	35.04	Aug. 6	38.75	Nov. 6	42.07
Feb. 5	40.82	May 7	35.17	13	39.08	13	42.20
12	40.28	14	35.47	20	39.43	19	42.27
19	39.59	28	36.28	27	39.72	26	42.27
26	38.74	June 4	36.37	Sept. 3	40.04	Dec. 3	42.38
Mar. 5	38.05	11	36.48	10	40.28	10	42.37
12	37.87	18	36.72	17	40.56	17	42.33
19	36.23	25	37.12	24	40.75	24	42.36
26	36.79	July 2	37.36	Oct. 1	41.05	31	42.31

79:38-3 (*1024, p. 216). American Finishing Co. In Memphis, about 150 feet east of Lauderdale St. and about 275 feet south of Bodley Ave.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	73.56	78.87	78.86	77.73	81.15	75.05	74.23	80.86	86.20	84.04	85.69	73.44
2	79.10	78.94	78.83	79.12	81.42	74.22	73.19	81.20	78.94	85.07	79.68	75.22
3	80.60	78.55	75.73	79.63	81.36	79.43	72.96	81.09	78.81	85.03	79.34	76.85
4	81.00	78.09	77.06	79.37	81.18	80.36	72.68	80.54	79.91	86.30	78.01	77.70
5	80.96	79.17	78.30	80.10	73.71	80.96	72.37	85.07	80.55	86.52	79.10	77.77
6	80.59	79.01	78.56	79.94	79.00	81.01	72.28	86.08	80.82	86.40	79.24	77.76
7	79.51	78.88	78.75	77.72	80.72	80.99	72.15	80.83	81.23	82.13	79.20	77.78
8	80.14	79.20	79.55	78.26	80.86	76.35	74.55	80.98	80.82	79.98	79.36	77.01
9	80.82	78.80	79.45	79.94	81.01	73.70	81.73	80.71	85.10	80.05	79.60	82.10
10	81.10	78.31	78.81	80.33	81.16	73.60	82.79	80.69	86.95	80.25	78.55	84.13
11	80.75	77.20	.....	80.57	81.00	74.66	84.03	78.20	87.26	80.25	77.23	84.13
12	80.80	78.54	79.12	80.83	73.12	75.23	84.64	84.10	87.80	80.32	78.39	84.50
13	80.17	78.51	79.07	80.76	79.59	75.40	84.81	86.21	87.85	79.50	79.15	84.73
14	78.55	78.60	79.18	73.51	80.41	75.45	84.59	87.38	87.80	78.47	79.06	84.79
15	80.17	79.07	79.63	77.31	80.68	75.43	76.92	87.65	81.63	79.11	80.52	84.07
16	80.07	78.75	79.52	79.76	81.27	74.67	77.90	88.04	79.37	85.00	78.79	84.27
17	79.84	77.32	79.00	80.86	80.99	80.94	78.44	87.74	80.47	85.94	78.15	85.13
18	79.54	76.80	78.04	81.16	75.60	81.97	78.63	86.05	80.75	80.45	77.72	85.22
19	75.87	78.11	79.31	80.94	72.73	82.56	78.35	79.56	80.59	80.40	78.12	79.60
20	73.12	78.61	79.72	75.09	79.13	82.93	78.86	81.20	80.18	80.06	78.59	79.20
21	77.04	78.60	79.60	71.58	81.25	83.02	78.68	81.58	79.95	78.62	79.00	79.10
22	78.19	78.62	80.06	72.63	81.51	83.43	84.24	81.49	79.80	79.50	79.17	77.91
23	78.31	78.62	79.87	73.60	75.86	81.30	85.54	81.50	78.10	79.55	79.10	76.33
24	78.48	77.64	79.19	74.12	75.80	77.86	85.78	81.30	78.99	79.40	78.63	76.30
25	78.48	76.78	77.70	74.24	75.38	82.21	86.55	79.91	79.82	79.55	77.60	74.43
26	78.34	77.96	78.85	79.06	72.51	83.23	86.50	84.26	80.50	79.52	78.38	75.71
27	78.27	78.15	79.64	79.20	73.40	77.60	86.50	85.96	80.50	79.17	78.59	77.09
28	76.80	78.83	79.31	73.39	74.71	77.29	86.30	86.30	80.10	78.21	78.56	77.72
29	77.94		79.42	79.30	74.97	77.33	79.45	86.34	78.20	78.70	75.23	77.26
30	77.95		79.25	81.01	75.80	76.92	80.30	87.40	77.59	84.14	74.00	77.58
31	78.28		77.24		75.31		80.65	87.48		85.59		77.82

79:38-4 (*1024, p. 217). American Finishing Co. In Memphis, about 275 feet east of McMillan St., and about 350 feet south of Bodley Ave., in center of east reservoir.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	57.19	Feb. 5	55.75	Mar. 12	57.70	Apr. 16	57.72
7	57.37	12	56.38	19	56.38	23	60.32
15	60.79	19	56.41	26	57.19	30	59.18
22	55.96	26	54.53	Apr. 2	55.98	May 7	58.74
29	55.29	Mar. 5	56.04	9	58.14	14	58.90

79:38-4--Continued.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 28	62.67	July 23	63.59	Sept. 17	66.67	Nov. 6	66.69
June 4	57.30	30	67.26	24	62.73	13	66.33
11	62.16	Aug. 6	64.50	Oct. 1	65.47	19	64.30
18	60.36	13	63.50	8	67.02	26	65.22
25	64.72	20	66.65	15	65.63	Dec. 3	62.95
July 2	56.23	27	63.75	21	65.30	10	62.70
9	60.82	Sept. 3	61.48	29	66.08	17	63.04
16	65.46	10	63.90				

79:49-1 (*1024, p. 217). Jack Callie, Oakville. About 20 feet northwest of Getwell Road and about 400 feet northeast of U. S. Highway 78.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	36.86	Apr. 2	33.77	July 9	33.77	Oct. 8	37.25
7	36.67	9	33.56	16	33.96	15	35.89
15	35.97	16	33.37	23	33.89	22	35.08
22	35.85	23	33.24	30	33.94	29	36.12
29	35.56	30	33.23	Aug. 6	33.94	Nov. 6	35.05
Feb. 5	35.39	May 7	33.32	13	34.21	13	35.25
12	35.21	14	33.35	20	34.32	18	35.23
19	34.85	28	33.51	27	34.82	25	35.35
26	34.51	June 4	33.71	Sept. 3	35.19	Dec. 2	35.67
Mar. 5	34.49	11	33.56	10	35.32	9	35.38
12	34.32	18	33.50	17	36.39	16	35.26
19	34.28	25	33.61	24	34.83	23	35.29
26	34.00	July 2	33.69	Oct. 1	35.73	30	35.44

79:53-1. Anderson-Tully Co. In Memphis, about 150 feet east of N. Second St., and about 800 feet north of Marble Ave. Drilled well, diameter 4 inches, reported depth 300 feet. Measuring point, top of 4-inch casing, 2.0 feet above land-surface datum.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Sept. 11	72.16	Oct. 14	65.68	Nov. 12	67.05	Dec. 9	68.69
16	69.98	21	67.22	18	66.91	16	67.45
23	67.71	28	67.80	25	66.76	23	67.16
30	68.49	Nov. 4	67.07	Dec. 2	66.12	30	63.33
Oct. 7	67.09						

79:54-1 (*1024, p. 218). Banner Laundry-Cleaner. In Memphis, about 75 feet south of Beale Ave., and about 140 feet east of Hernando St.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	66.21	Aug. 16	69.27	July 23	80.86	Oct. 15	73.60
7	66.25	23	72.68	30	81.22	21	74.03
15	63.98	30	71.40	Aug. 6	81.33	29	74.71
22	62.81	May 7	69.66	13	81.61	Nov. 6	73.04
29	63.21	14	69.32	20	81.20	13	72.76
Feb. 12	64.00	28	72.32	27	79.87	19	71.86
19	63.50	June 4	70.13	Sept. 3	78.65	26	71.62
Mar. 5	65.43	11	72.62	10	81.66	Dec. 3	71.60
12	64.91	18	75.30	17	80.43	10	74.49
19	65.63	25	77.70	24	78.75	17	73.30
26	65.50	July 2	77.66	Oct. 1	77.15	24	72.26
Apr. 2	70.39	9	76.59	8	77.63	31	70.14
9	68.87	16	79.41				

79:61-1 (*1017, p. 336; 1024, p. 218). Chickasaw Cooperage Co. In Memphis, about 50 feet north of Pershing Ave., and about 300 feet west of Scott St., in sub-basement of plant.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	75.93	Jan. 28	72.77	Feb. 25	73.97	Mar. 25	72.04
7	75.84	Feb. 4	73.27	Mar. 4	73.40	Apr. 1	74.30
14	75.17	11	74.08	11	73.52	8	73.93
21	74.80	18	73.70	19	73.40	15	73.53

79:61-1--Continued.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Apr. 22	72.54	July 1	63.10	Sept. 2	65.94	Nov. 4	74.77
29	72.25	8	73.37	9	76.82	12	75.83
May 6	71.66	15	77.16	16	77.28	18	75.72
13	71.55	22	76.25	23	76.83	25	74.86
27	72.13	29	78.62	30	76.78	Dec. 2	75.99
June 3	74.10	Aug. 5	77.46	Oct. 7	77.77	9	63.19
10	73.59	12	76.93	14	76.61	16	76.42
17	76.00	19	76.83	21	60.82	23	76.08
24	77.54	26	77.22	28	68.23	30	74.48

79:65-1 (*1024, p. 218). Clover Farm Dairy. In Memphis, about 85 feet east of Manassas St. and about 125 feet north of Beale Ave.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June
1	.....	104.76	105.64	107.60	111.53	110.48
2	.....	104.44	105.25	108.61	111.75	108.06
3	.....	102.82	102.99	108.07	111.60	108.08
4	a105.28	103.58	104.79	110.66	110.36	109.30
5	106.61	103.84	105.73	111.18	108.06	110.01
6	.....	104.53	105.03	111.34	109.01	110.93
7	.....	104.86	105.34	108.54	109.84	112.81
8	.....	104.88	105.51	109.60	110.00	111.60
9	.....	103.96	105.02	109.71	110.39	109.32
101	.....	102.11	103.88	109.90	110.45	112.00
11	a104.95	103.15	104.12	110.31	110.00	111.32
12	104.35	104.70	105.58	110.25	106.71	111.96
13	.....	103.34	105.52	109.88	107.42	113.79
14	.....	103.99	105.92	108.25	110.01	115.19
15	a101.70	103.83	106.51	109.34	110.02	114.82
16	103.54	103.10	105.88	109.98	110.65	111.56
17	103.34	101.69	103.46	109.73	111.41	114.21
18	102.91	102.75	104.81	111.22	110.65	114.56
19	103.48	103.04	105.58	111.75	108.91	117.58
20	100.72	105.39	104.81	111.53	110.50	118.04
21	101.65	104.19	106.39	109.70	111.20	117.32
22	102.45	105.15	106.54	112.19	111.77	118.07
23	102.65	103.60	107.00	112.43	111.56	115.76
24	103.00	102.45	104.31	112.87	111.55	117.18
25	102.72	102.95	105.71	113.56	110.40	116.70
26	.....	103.72	106.20	113.23	108.54	118.63
27	.....	103.64	106.61	112.69	110.43	118.92
28	.....	104.47	107.17	109.73	111.30	119.29
29	102.55		107.53	111.42	111.80	.....
30	103.29		107.34	112.18	111.74	.....
31	104.02		106.35		111.60	

a Tape measurement.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	121.83	117.60	116.47	117.03	110.26
2	a114.22	122.18	116.86	115.68	116.10	111.20
3	.....	121.42	118.85	115.95	113.85	111.92
4	.....	118.05	119.80	115.82	115.16	112.34
5	.....	120.70	120.81	115.19	114.70	112.87
6	.....	121.60	121.10	114.29	114.29	113.37
7	.....	122.30	120.41	116.14	114.40	113.11
8	.....	122.42	118.78	116.85	114.58	111.45
9	a111.55	122.97	120.22	117.06	114.03	113.56
10	.....	122.38	121.27	116.92	112.84	113.80
11	.....	119.25	121.74	116.92	112.64	113.91
12	.....	121.80	122.09	115.13	112.70	114.07

a Tape measurement.

79:65-1--Continued.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
13	.....	122.44	121.96	111.59	113.96	114.55
14	.....	123.14	120.95	113.75	113.30	113.78
15	.....	123.38	118.70	114.30	113.26	112.44
16	a114.90	123.44	119.92	114.91	113.25	113.20
17	.....	122.60	119.55	115.15	111.02	113.80
18	.....	119.60	119.45	113.80	112.11	113.70
19	a119.74	120.95	118.36	113.85	111.91	113.70
20	120.18	121.15	119.84	112.03	112.35	113.60
21	118.20	120.60	119.09	113.50	112.10	112.94
22	120.04	120.50	115.92	114.11	112.38	112.13
23	120.70	121.85	118.21	114.42	111.44	112.90
24	121.24	119.95	118.12	114.78	110.60	113.00
25	121.50	118.00	118.70	114.51	111.40	109.51
26	121.74	119.70	118.75	113.81	111.83	109.94
27	121.04	120.13	118.83	111.76	112.78	110.10
28	119.02	120.71	117.78	114.10	111.50	110.21
29	119.77	121.21	115.65	115.41	112.10	108.90
30	120.45	120.73	116.67	114.85	112.11	110.64
31	121.49	119.16		116.60		110.53

a Tape measurement.

79:87-2. Illinois Central System. In Memphis, about 200 feet west of Barton St. and about 400 feet south of Gilbert Ave. Drilled well, diameter 6 inches, reported depth 500 feet. Measuring point, top of 6-inch casing, 3.0 feet above land-surface datum.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
May 8	85.65	July 16	82.38	Sept. 17	89.03	Nov. 13	83.56
14	81.15	23	81.50	24	90.10	19	83.19
28	81.33	30	90.35	Oct. 1	85.33	26	79.81
June 4	91.94	Aug. 6	87.50	8	84.86	Dec. 3	81.86
11	75.85	13	91.95	15	82.94	10	83.12
18	82.48	20	88.10	21	82.34	17	85.04
25	81.56	27	92.75	29	82.86	24	81.28
July 2	77.26	Sept. 3	86.41	Nov. 6	82.84	31	80.51
9	79.19	10	90.58				

79:105-1 (*1017, p. 336; 1024, p. 219). Memphis Light, Gas and Water Division. In Memphis, about 125 feet east of Kansas St., and about 250 feet south of McLemore Ave., in engine room.

Water level, in feet below land-surface datum, 1946

Jan. 2	105.77	Apr. 2	104.73	July 9	111.18	Oct. 8	113.64
7	103.83	9	105.85	16	112.20	15	112.93
15	102.18	16	106.97	23	113.64	21	110.82
22	99.66	23	107.12	30	114.80	29	112.39
29	100.52	30	107.48	Aug. 6	114.69	Nov. 6	110.80
Feb. 5	103.06	May 7	107.02	13	115.61	13	109.44
12	101.69	14	107.43	20	115.39	19	109.04
19	102.26	28	107.22	27	115.56	26	108.83
26	101.12	June 4	107.92	Sept. 3	114.90	Dec. 3	110.58
Mar. 5	101.89	11	108.07	10	115.83	10	111.68
12	102.06	18	110.06	17	115.05	17	108.69
19	103.96	25	110.94	24	114.73	24	108.29
26	103.76	July 2	110.77	Oct. 1	114.07	31	107.75

79:122-1. Reed Bros. Dairy. In Memphis, about 125 feet north of Beechwood Ave., and about 150 feet west of Bellevue Blvd. Drilled well, diameter 8 to 6 inches, reported depth 285 feet. Measuring point, top of 8-inch casing, 1.6 feet above land-surface datum.

79:122-1--Continued.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 30	123.73	Sept.10	124.70	Oct. 22	121.11	Dec. 3	119.61
Aug. 6	124.57	17	123.90	29	121.08	10	120.23
13	124.87	24	124.20	Nov. 4	122.04	17	121.89
20	124.58	Oct. 1	122.47	12	120.73	24	119.11
27	125.56	8	121.21	19	121.18	31	119.70
Sept. 3	123.89	15	123.26	26	119.33		

79:142-1. Welsh Lumber Co. In Memphis, about 500 feet west of Florida St., and about 1,000 feet south of Bodley Ave. Drilled well, diameter 4 inches, reported depth 485 feet. Measuring point, top of 1½-inch air-line pipe, 2.0 feet above land-surface datum.

Water level, in feet below land-surface datum, 1946

July 9	27.99	Aug. 27	32.53	Oct. 15	30.98	Nov. 26	29.07
16	29.20	Sept. 3	31.80	21	30.61	Dec. 3	28.36
23	29.99	10	32.47	29	30.23	10	29.23
30	31.08	17	32.27	Nov. 6	30.64	17	29.43
Aug. 6	31.32	24	31.34	13	29.88	24	28.56
13	31.74	Oct. 1	31.59	19	29.31	31	28.51
20	32.03	8	31.40				

79:149-1 (*1024, p. 219). National Fireworks, Inc. About 125 feet west of Brunswick Road, about 1.3 miles north of Brunswick, on the U. S. Navy proving range.

Water level, in feet above land-surface datum, 1946

Mar. 29	6.47	July 2	5.57	Aug. 29	4.75	Nov. 1	4.50
Apr. 15	5.85	16	5.40	Sept.19	4.54	14	4.59
30	5.88	31	5.25	Oct. 2	4.40	Dec. 4	4.49
May 14	5.77	Aug. 14	4.93	16	4.29	19	4.58
June 18	5.61						

79:154-1 (*1017, p. 336; 1024, p. 219). O. T. Smith Dairy. In shed about 400 feet east of Airways Road and 0.55 mile south of Raines Road.

Water level, in feet below land-surface datum, 1946

Jan. 2	67.87	Apr. 9	55.90	July 16	61.23	Oct. 15	70.35
7	67.10	16	55.18	23	61.63	22	70.88
15	64.96	23	54.49	30	62.38	29	71.10
22	62.31	30	54.37	Aug. 6	63.02	Nov. 6	71.29
29	59.57	May 7	54.57	13	63.72	13	70.76
Feb. 5	57.08	14	56.27	20	64.39	19	70.01
12	54.36	28	59.41	27	65.25	26	68.95
26	48.66	June 4	59.57	Sept. 3	66.14	Dec. 3	67.63
Mar. 5	46.89	11	59.84	10	66.93	10	66.44
12	46.47	18	60.13	17	67.75	17	65.04
19	50.42	25	60.45	24	68.40	24	64.11
26	54.41	July 2	60.69	Oct. 1	69.10	31	63.27
Apr. 2	55.66	9	60.98	8	69.77		

79:167-1 (*1024, p. 220). City of Collierville. In engine room of the Colliersville waterworks, about 75 feet east of Main St. and about 750 feet south of State Highway 57.

Water level, in feet below land-surface datum, 1946

Jan. 18	98.67	June 18	98.32	Aug. 28	99.47	Nov. 1	98.44
Feb. 14	99.92	July 2	98.44	Sept.19	99.68	14	99.63
Mar. 18	98.54	16	99.94	Oct. 2	98.64	Dec. 4	99.69
Apr. 15	98.22	31	98.91	16	99.63	19	99.59
May 14	99.03	Aug. 14	99.63				

79:174-1. J. O. Goshorn Co. In Memphis, about 250 feet south of Bodley Ave. and about 500 feet east of S. Third St. Drilled well, diameter 4 inches, depth 58 feet. Measuring point, top edge of recorder shelter floor, 0.5 foot above land-surface datum. Equipped with water-stage recorder on Aug. 1, 1946.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	a 23.12	24.54	25.25	24.78	23.53
2	a 21.99	23.16	24.58	25.27	24.84	23.57
3	.....	23.20	24.63	25.30	24.95	23.55
4	.....	23.25	24.67	25.35	25.02	23.60
5	.....	23.30	24.72	25.40	25.03	23.57
6	.....	23.37	24.75	25.43	25.00	23.66
7	.....	23.45	24.78	25.44	24.50	23.74
8	.....	23.50	24.83	25.44	24.03	23.80
9	a 22.23	23.57	24.87	25.48	24.05	23.82
10	.....	23.59	24.91	25.52	24.03	23.80
11	.....	23.61	24.96	25.53	23.10	23.73
12	.....	23.67	25.00	25.57	23.21	23.44
13	.....	23.70	25.03	25.61	23.25	23.27
14	.....	23.75	25.07	25.64	23.31	23.31
15	.....	23.84	25.09	25.66	23.38	23.34
16	a 22.98	23.89	25.07	25.66	23.41	23.39
17	.....	23.92	25.09	25.65	23.23	23.58
18	.....	23.95	25.12	25.66	23.13	23.62
19	.....	23.92	25.14	25.68	23.18	23.60
20	.....	23.98	25.16	25.70	23.21	23.55
21	.....	24.02	25.19	25.72	23.31	23.47
22	.....	24.08	25.12	25.73	23.46	23.52
23	a 22.56	24.13	25.06	25.70	23.52	23.50
24	.....	24.18	25.05	25.63	23.50	23.60
25	.....	24.24	25.07	25.40	23.55	23.65
26	.....	24.29	25.08	24.55	23.50	23.64
27	.....	24.31	25.13	24.66	23.23	23.61
28	.....	24.36	25.15	24.70	23.26	23.65
29	.....	24.42	25.20	24.70	23.30	22.78
30	a 22.97	24.45	25.23	24.71	23.35	22.55
31	.....	24.48		24.76		22.63

a Tape measurement.

79:175-1 (*1024, p. 220). C. W. Bond. In Arlington, about 150 feet west of Chester St. and about 0.45 mile south of railroad depot.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 18	60.21	May 14	60.28	Aug. 14	60.71	Nov. 1	61.02
Feb. 14	59.20	June 18	60.33	28	60.80	14	60.92
Mar. 20	59.80	July 2	60.38	Sept. 19	60.94	Dec. 4	61.09
Apr. 15	59.96	16	60.37	Oct. 2	61.01	19	61.02
30	60.16	31	60.53	16	61.09		

VIRGINIA

INTRODUCTION

The two programs of water-level measurements, begun in June 1928 in cooperation with the Virginia Geological Survey, were continued in 1946. The wells included in one of these programs are in the northern part of the State, and those included in the other are in the southeastern part of the State. The two programs are discussed separately in this report.

The long-range program, a systematic study of the ground water resources of the State, was carried forward.

NORTHERN VIRGINIA

By Rodney Hart

Program of work

All of the six observation wells in northern Virginia are in Arlington and Fairfax Counties, in the general vicinity of Washington, D. C. An automatic water-stage recorder was maintained on the Bacon well and measurements by the wetted-tape method were made weekly in the other wells. A total of about 315 individual measurements of water level was made during 1946 by the wetted-tape method.

In addition to the six observation wells maintained in northern Virginia there are also two recording rain gages. The two rain gages are situated so that one lies on each side of the drainage basin of the headwaters of Difficult Run. The Bacon rain gage, on the property formerly owned by Mr. Nathaniel Bacon, near the Bacon well, has been in operation since December 1934. The Manion rain gage, on the property formerly owned by Mr. M. F. Manion, on the Lee Highway, was installed in December 1937. The hourly and daily records of these two rain gages during recent years have been published monthly by the U. S. Weather Bureau.[1/] The stream-gaging station near the headwaters of Difficult Run known as the Beecher Gage,[2/] was discontinued in July 1946 and its recorder removed.

1/ Hydrologic Bulletin (hourly and daily precipitation) North Atlantic District: U. S. Dept. of Commerce, Weather Bureau in cooperation with War Department, Corps of Engineers, U. S. Army.

2/ Water levels and artesian pressure in observation wells in the United States in 1937: U. S. Geol. Survey Water Supply Paper 840, p. 616.

The six observation wells and the two recording rain gages in northern Virginia received a general overhauling in the latter half of 1946. Concrete bases were constructed for the rain gages as replacements for the old wooden bases. The rain gages were removed at this time and brought into the Washington office of the U. S. Weather Bureau for recalibration and adjustment. Three of the observation wells equipped with wooden recorder houses were painted and general repairs were made where necessary.

Fluctuations of water level

Inasmuch as the six observation wells in the northern part of Virginia are shallow wells and are underlain by crystalline rocks, their water levels are greatly affected by precipitation. The precipitation and departure from normal at Washington, D. C., in 1946, which are representative of the precipitation in the northern part of Virginia, are given for each month and for the year in the following table.

Precipitation and departure from normal at Washington, D. C., in inches, 1946
(From Monthly Meteorological Summary, U. S. Weather Bureau)

Month	Recorded precipitation	Normal precipitation	Departure from normal	Accumulated departure from normal
January	1.54	3.55	-2.01	-2.01
February	2.84	3.27	-.43	-2.44
March	1.84	3.75	-1.91	-4.35
April	1.88	3.27	-1.39	-5.74
May	6.74	3.70	+3.04	-2.70
June	2.38	4.13	-1.75	-4.45
July	3.82	4.71	-.89	-5.34
August	4.18	4.01	+.17	-5.17
September	3.95	3.24	+.71	-4.46
October	2.50	2.84	-.34	-4.80
November	1.05	2.37	-1.32	-6.12
December	2.02	3.32	-1.30	-7.42
Year	34.74	42.16	-7.42	-7.42

It will be seen from the preceding table that the precipitation was almost 7½ inches below normal in 1946 in contrast to the more than 3½ inches above normal precipitation recorded during 1945. This decrease in precipitation is reflected in the net decline in water levels in all of the wells in the northern Virginia area.

The following table has been compiled from data for 1945 on the six wells in northern Virginia. It shows the water level for each well in early January and late December, the highest and lowest levels during the year, the range in level, and the net change for the year.

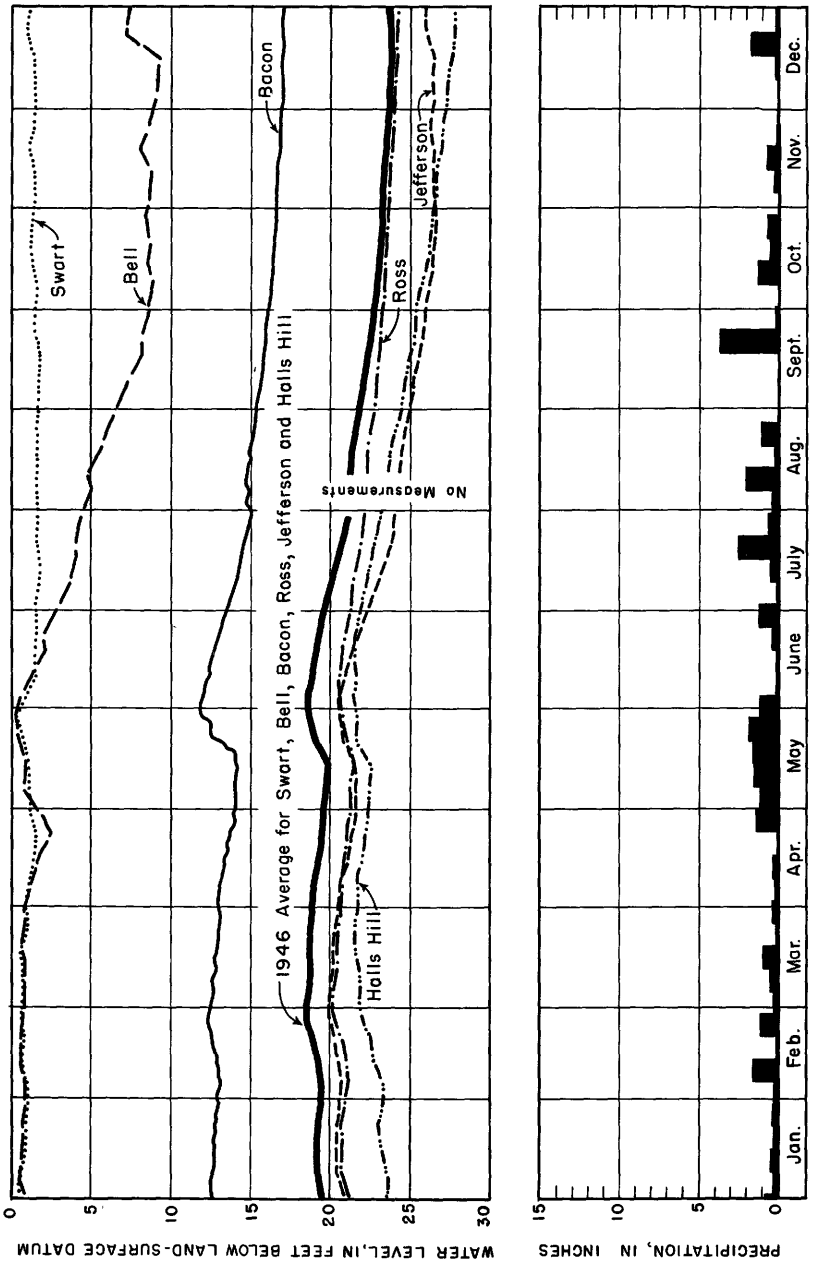

Figure 13.--Graphs showing fluctuations of water level in six wells in northern Virginia, and precipitation at Washington, D. C., in 1946.

Summary of water levels in 6 observation wells in northern Virginia in 1945
(Net change and range, in feet; water levels, in feet below land-surface datum)

Well	Water level Jan. 2	Water level Dec. 30	Net change	Highest level	Lowest level	Range in level
Ross	21.01	24.19	-3.18	20.17	24.19	4.02
Halls Hill	23.51	27.88	-4.37	21.28	27.88	6.60
Jefferson	20.87	25.98	-5.11	20.00	26.58	6.58
Bell	.68	7.50	-6.82	.27	9.45	9.18
Swart	.60	1.19	-.59	.31	1.78	1.47
Bacon	12.58	17.19	-4.61	11.86	17.19	5.33

As indicated by this summary the greatest decline in water level occurred in the Bell well, near Tysons Corner, where the water level was 6.82 feet lower at the end of the year than at the beginning. The greatest range in water-level fluctuation also occurred in this well, where the difference between the highest and lowest stages was 9.18 feet. The average net decline for the four deepest wells, the Bacon, Halls Hill, Jefferson, and Ross wells, was 4.32 feet, which indicates a marked decrease in ground-water storage since December 1945. With the exception of the Jefferson and Swart wells, the lowest water levels recorded during 1946 in the other four wells occurred in December. The lowest stage in the Jefferson well occurred near the end of October and in the Swart well, about the middle of September.

Although some recharge occurred in February, the greatest recharge occurred in May and the highest water levels for the year in all of the wells occurred in late May and early June. This was due, for the most part, to the excessive amount of rain that fell during May--more than 3 inches above normal. Figure 13 shows the weekly fluctuations of water level which occurred in the six observation wells in northern Virginia during 1946, the weekly average water level for the four deepest wells, and the weekly precipitation at Washington, D. C.

Well descriptions and water-level measurements

Arlington County

Halls Hill well (*777, pp. 250, 253-258; 817, pp. 482-483; 840, p.623;; 845, p. 679; 886, p. 906; 907, p. 107; 937, p. 101; 945, p. 130; 987, p. 165; 1017, p. 342; 1024, p. 224). On Lee Highway, at Langston School.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	23.51	Feb. 18	22.29	Apr. 8	21.54	May 28	21.50
7	23.41	25	21.70	16	21.88	June 3	21.32
14	23.06	Mar. 4	21.70	23	22.08	10	21.39
21	22.88	11	21.73	29	22.21	17	21.28
28	23.12	18	21.45	May 6	22.24	24	21.53
Feb. 4	23.14	25	21.41	13	22.41	July 2	21.74
11	22.54	Apr. 1	21.60	20	21.52	8	22.06

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Halls Hill well--Continued.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 15	22.41	Sept. 3	24.39	Oct. 14	25.97	Nov. 25	27.00
22	22.69	9	24.62	21	26.16	Dec. 2	27.28
29	23.03	16	24.94	28	26.38	9	27.42
Aug. 12	23.54	23	25.19	Nov. 4	26.45	16	27.63
19	23.70	30	25.31	11	26.61	23	27.77
26	24.07	Oct. 7	25.60	18	26.94	30	27.88

Ross well (*777, pp. 250, 254-258; 817, pp. 480, 482-483; 840, p. 623; 845, p. 678; 886, pp. 906-907; 907, p. 107; 937, pp. 101-102; 945, pp. 130-131; 987, pp. 165-166; 1017, p. 343; 1024, p. 224). At 1918 North Wayne Street, Rosslyn.

Water level, in feet below land-surface datum, 1946

Jan. 2	21.01	Apr. 1	20.71	July 2	21.19	Oct. 7	23.28
7	20.71	8	20.74	8	21.34	14	23.41
14	20.72	16	21.09	15	21.60	21	23.50
21	20.61	22	21.04	22	21.84	28	23.59
28	20.93	29	21.24	29	21.96	Nov. 4	23.65
Feb. 4	21.14	May 6	21.23	Aug. 12	22.25	11	23.73
11	21.01	13	21.43	19	22.35	18	23.84
18	20.68	20	21.01	26	22.52	25	23.90
25	20.18	28	20.74	Sept. 3	22.71	Dec. 2	24.00
Mar. 4	20.17	June 2	20.56	9	22.83	9	24.04
11	20.41	10	20.68	16	22.98	16	24.13
18	20.41	17	20.68	23	23.97	23	24.13
25	20.50	24	20.96	30	23.16	30	24.19

Fairfax County

Bacon well (*777, pp. 251, 254-258; 817, p. 480; 840, p. 621; 845, p. 678; 886, p. 907, 907, p. 108; 937, p. 102; 945, p. 131; *987, p. 166; 1017, p. 343; 1024, p. 225). About 2 miles west of Fairfax, at Fair Acres farm, on U. S. Highway 50.

Daily noon water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	12.97	12.54	13.03	13.98	11.76	13.44	14.95	15.31	16.08	16.59	16.95
2	12.58	12.99	12.48	12.96	13.99	11.79	13.51	14.75	15.34	16.11	16.60	16.99
3	12.59	13.08	12.55	13.00	14.03	11.86	13.58	14.69	15.38	16.15	16.61	17.00
4	12.61	13.11	12.58	13.02	14.06	11.88	13.66	14.73	15.42	16.17	16.62	17.00
5	12.60	13.10	12.61	13.05	13.96	11.94	13.73	14.78	15.45	16.20	16.63	17.01
6	12.60	13.04	12.64	13.09	14.01	11.99	13.78	14.81	15.47	16.22	16.65	17.02
7	12.63	12.97	12.64	13.14	14.04	12.02	13.84	14.66	15.49	16.23	16.65	17.04
8	12.69	13.06	12.68	13.14	13.97	12.09	13.93	14.64	15.52	16.24	16.65	17.05
9	12.68	12.98	12.61	13.15	13.98	12.18	13.97	14.68	15.55	16.26	16.68	17.07
10	12.66	12.92	12.72	13.23	14.04	12.28	14.00	14.69	15.57	16.28	16.70	17.07
11	12.74	12.91	12.75	13.27	14.05	12.28	14.06	14.76	15.61	16.30	16.70	17.08
12	12.66	12.95	12.79	13.26	14.08	12.30	14.11	14.80	15.65	16.31	16.71	17.10
13	12.70	12.87	12.78	13.31	14.10	12.36	14.17	14.82	15.69	16.35	16.73	17.09
14	12.73	12.70	12.78	13.36	14.12	12.46	14.22	14.86	15.71	16.38	16.73	17.12
15	12.66	12.68	12.73	13.33	14.05	12.52	14.26	14.90	15.75	16.39	16.76	17.13
16	12.77	12.67	12.82	13.42	14.01	12.57	14.32	14.91	15.79	16.40	16.78	17.16
17	12.71	12.57	12.82	13.48	13.98	12.59	14.37	14.90	15.81	16.40	16.79	17.16
18	12.69	12.62	12.82	13.50	14.01	12.62	14.42	14.93	15.85	16.41	16.83	17.18
19	12.77	12.61	12.83	13.55	13.39	12.74	14.48	14.96	15.88	16.45	16.83	17.20
20	12.83	12.50	12.87	13.53	13.27	12.76	14.54	15.00	15.89	16.48	16.83	17.21
21	12.74	12.51	12.90	13.68	12.83	12.78	14.59	15.04	15.85	16.50	16.84	17.19
22	12.84	12.40	12.90	13.66	12.46	12.85	14.64	15.07	15.88	16.51	16.84	17.15
23	12.88	12.35	12.93	13.67	12.41	12.95	14.63	15.08	15.94	16.53	16.86	17.15
24	12.85	12.32	12.96	13.77	12.42	13.00	14.65	15.10	15.94	16.53	16.87	17.14
25	12.83	12.38	12.96	13.86	12.43	13.06	14.71	15.12	15.95	16.54	16.88	17.13
26	12.88	12.40	12.97	13.89	12.48	13.14	14.77	15.15	15.98	16.54	16.88	17.14
27	12.99	12.42	13.01	13.95	12.30	13.22	14.82	15.17	16.01	16.55	16.90	17.17
28	12.98	12.48	13.04	13.98	11.89	13.28	14.88	15.19	16.04	16.57	16.92	17.15
29	13.03		13.05	13.89	11.69	13.35	14.93	15.22	16.05	16.57	16.93	17.16
30	13.02		13.03	13.95	11.66	13.39	14.97	15.25	16.05	16.57	16.94	17.19
31	12.92		13.05		11.70		15.02	15.28		16.57		.....

Bell well (*777, pp. 250, 254-258; 817, pp. 482-483; 840, p. 722; 845, p. 678; 886, p. 907; 907, p. 108; 937, p. 103; 945, p. 132; 987, p. 167; 1017, p. 344; 1024, p. 225). At Ash Grove, about 1 mile northwest of Tysons Crossroads on State Highway 7, Leesburg pike.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	0.68	Apr. 8	1.30	July 8	3.57	Oct. 7	8.93
7	.56	16	1.76	15	3.98	14	8.64
14	.77	22	2.46	22	4.02	21	8.69
21	.79	29	1.72	29	4.33	28	8.43
28	.95	May 6	.84	Aug. 6	4.86	Nov. 4	8.64
Feb. 4	.95	13	.85	12	4.90	11	8.86
11	.68	20	.56	19	5.60	18	8.18
18	.77	28	.27	26	6.17	25	8.74
25	.76	June 3	.59	Sept. 3	6.93	Dec. 2	9.09
Mar. 4	.80	10	1.35	9	7.42	9	9.37
11	.79	17	2.03	16	8.21	16	9.45
18	.72	24	2.07	23	8.29	23	7.28
25	.84	July 2	2.97	30	8.61	30	7.50
Apr. 1	.90						

Jefferson School well (*845, pp. 676, 680; 886, p. 908; 907, p. 108; 937, p. 103; 945, p. 132; 987, p. 167; 1017, p. 344; 1024, p. 226). In Falls Church, near southeast corner of Jefferson School.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	20.87	Apr. 1	20.59	July 2	22.43	Oct. 7	26.22
7	20.56	8	20.78	8	22.85	14	26.37
14	20.45	16	21.18	15	23.40	21	26.55
21	20.48	22	21.34	22	23.86	28	26.58
28	20.59	29	21.59	29	23.99	Nov. 4	26.48
Feb. 4	20.73	May 6	21.59	Aug. 12	24.28	11	26.46
11	20.53	13	21.48	19	24.48	18	26.52
18	20.31	20	20.86	26	24.69	25	26.32
25	20.00	28	20.60	Sept. 3	25.00	Dec. 2	26.47
Mar. 4	20.09	June 3	20.54	9	25.22	9	26.45
11	20.24	10	20.88	16	25.49	16	26.56
18	20.21	17	21.34	23	25.79	23	26.14
25	20.34	24	21.85	30	25.87	20	25.98

Swart 162 (*817, pp. 482, 484-485; 840, p. 626; 845, p. 683; 886, p. 910; 907, p. 111; 937, pp. 105-106; 945, pp. 133-134; 987, p. 170; 1017, p. 345; 1024, p. 226). On the Swart farm, about 1.5 miles west of Fairfax, on U. S. Highway 50, at Difficult Run, on north side of abandoned stretch of old highway.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 2	0.60	Apr. 8	1.15	July 8	1.66	Oct. 7	1.60
7	.64	16	1.38	15	1.65	14	1.38
14	.87	22	1.48	22	1.52	21	1.20
21	.94	29	1.14	29	1.59	28	1.30
28	1.01	May 6	1.10	Aug. 5	1.50	Nov. 4	1.47
Feb. 4	1.01	13	.96	12	1.48	11	1.46
11	.69	20	.70	19	1.50	18	1.17
18	.78	28	.31	26	1.54	25	1.51
25	.72	June 3	.79	Sept. 3	1.64	Dec. 2	1.58
Mar. 4	.83	10	1.43	9	1.62	9	1.57
11	.83	17	1.52	16	1.78	16	1.57
18	.70	24	1.54	23	1.40	23	1.07
25	1.02	July 2	1.53	30	1.43	30	1.19
Apr. 1	.86						

SOUTHEASTERN VIRGINIA

By D. J. Cederstrom

Program of work

Eight observation wells were included in the program at the end of the year. Three of the wells are equipped with automatic water-stage recorders actuated by floats. Tape measurements were also made, generally about once a week. A total of 314 measurements was made in 1946.

A recharge experiment was carried out in a Coastal Plain well whereby fresh water was added to the underground reservoir and subsequently pumped back to determine the amount of mixing with the brackish ground water. A paper entitled "Genesis of ground waters in the Coastal Plain of Virginia" by D. J. Cederstrom was published in Ecomonic Geology, vol. 41, pp. 218-245.

Fluctuations of water level

Petersburg area

Measurements were continued on the Pilcher well near Petersburg (Chesterfield County well 36). (See fig. 14.) At the beginning of the year water level continued to rise sharply and on January 15 was 13.1 feet below land-surface datum or about 2 feet higher than at the same time in the preceding year. The water level declined only moderately in the spring and early summer months and was generally from 1½ to 2 feet lower than the January high stage. A complete recovery took place early in July in response to heavy rainfall but the midsummer and early fall decline that followed was greater than the spring decline. By November 5 the water level was 17 feet below land-surface datum and remained at about that level for the rest of the year.

Rainfall for the year at Richmond was nearly normal although precipitation was above normal only in May, June, and July. As a result, practically all of the heavy rains which fell contributed greatly to growing vegetation and the ground water increment in those months was small. Hence, the water levels tended to decline throughout the year in the Pilcher well, except for a brief partial recovery early in July, and the net loss in water stage was about 4 feet.

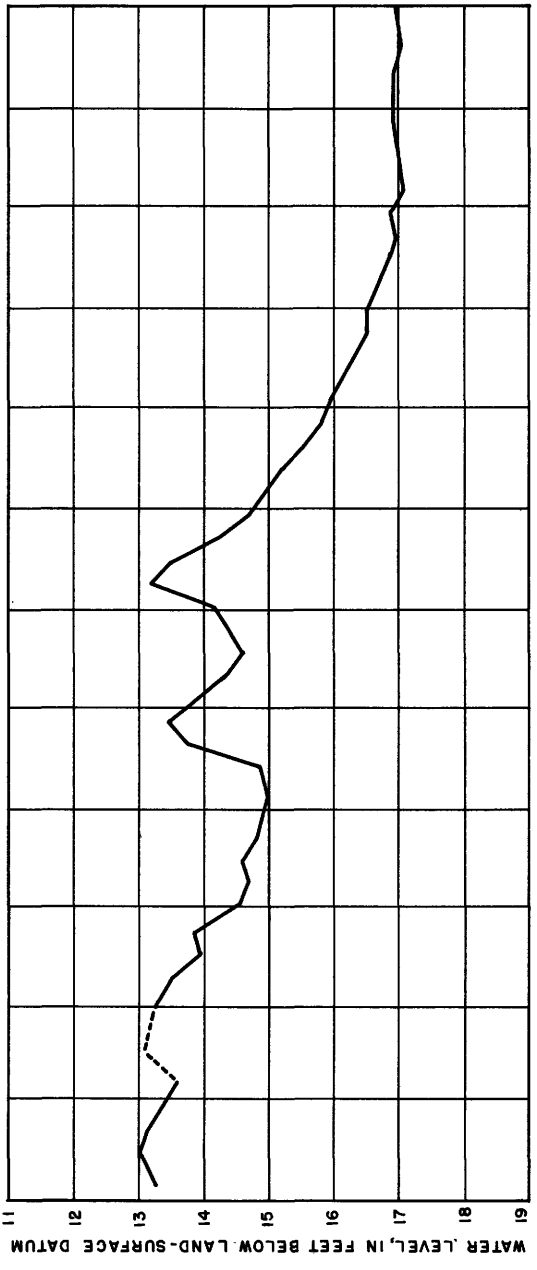

Figure 14.--Graphs showing fluctuations of water level in Chesterfield County well 36 (Pilcher well), near Petersburg, Va., and precipitation, by weeks, at Richmond, in 1946.

Hopewell area

Measurements of water level in well 13, Prince George County, at Hopewell, indicate that artificial recharge, for the purpose of storing cold water, was begun at the Solvay Process Company before December 1944. During January and most of February 1946 the water level stood between 33 and 34 feet below land surface, whereas in the subsequent period (March, April, and May) of slight discharge and no recharge, the water level was about 36 feet below land surface at the Old Dominion Water Company observation well. Further, sharp short-time fluctuations in water level, characteristic of the recharge period, are almost entirely absent in the succeeding nonrecharge period.

On June 4 summer pumping began at the Solvay Process Company and the water level in the observation well declined 11½ feet by July 1 and an additional 3 feet by July 26. Water level remained at the low level of about 49½ feet below the measuring point until November 13, when pumping was discontinued.

The water level in the observation well recovered after the cessation of pumping and on December 30 stood 37.7 feet below the land surface. This is believed to be the normal water level at the observation well site, indicating that artificial recharge of the winter of 1945-46 had not yet begun.

Sussex County

Weekly measurements of water level in Sussex County well 90, the Jeb S. White well, at Wakefield, were continued in 1946. During the course of the year the water levels fluctuated within very narrow limits, probably in response to local very moderate discharge. There appears to have been an over-all decline of about 1 foot, attributed to heavy industrial pumping at Franklin, 20 miles to the south. An accelerated decline, which began in 1942 and continued in 1943, had diminished in 1944 and was negligible in 1945. The record of this well thus parallels closely the record of water level declines in the Franklin area.

Franklin area

Measurements made on Isle of Wight County well 161, at Franklin, show that water levels continue a very gradual decline, about 1 foot during the course of the year, due to almost continuous heavy pumping at the nearby Chesapeake-Camp Corporation pulp mill. Temporary shutdown of either one

of the two discharging wells resulted in brief recovery of water level, as seen in measurements made on February 11, April 29, July 8, and September 2.

The measurement made on December 13, 1946, on the courthouse well at Courtland, (Southampton County well 89) showed the water level to be 0.75 foot lower than on December 8, 1945.

The measurements made on the Virginian Railway well at Sebrell showed that no decline occurred in 1946.

York-James peninsula

Measurements were continued on Milstead well 1, at Fort Eustis, Warwick County. Water levels fluctuated within very narrow limits in response to variations in discharge of ground water at Fort Eustis. In general, water levels were about the same as in 1945.

Well descriptions and water-level measurements

Petersburg-Hopewell area

Chesterfield County

36 (*886, p. 913; 907, p. 119; 937, p. 112; 945, p. 151; *987, p. 166; 1017, p. 343; 1024, p. 231). Pilcher well. 3 miles north of Petersburg. Equipped with automatic water-stage recorder.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	13.27	Apr. 21	14.81	July 22	14.17	Oct. 14	16.84
15	13.02	28	14.90	29	14.68	21	16.95
20	13.10	May 5	14.99	Aug. 5	14.94	29	16.87
27	13.30	13	14.84	12	15.24	Nov. 5	17.07
Feb. 3	13.56	20	13.75	18	15.50	12	16.99
28	13.22	27	13.43	25	15.77	19	16.96
Mar. 9	13.48	June 10	14.34	Sept. 3	15.99	26	16.92
16	13.93	17	14.60	8	16.13	Dec. 4	16.92
23	13.83	24	14.64	15	16.32	10	16.91
Apr. 1	14.57	July 1	14.16	22	16.52	18	17.00
7	14.69	8	13.15	29	16.53	19	17.03
14	14.58	15	13.50	Oct. 7	16.70	30	16.95

Prince George County

13 (*886, p. 914; 907, p. 119; 937, p. 113; 945, p. 152; 987, pp. 171-172; 1017, p. 346; 1024, p. 231). Old Dominion Water Co. In Hopewell.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 4	35.61	Apr. 12	34.56	July 12	49.56	Oct. 11	49.91
11	35.86	19	36.31	19	46.96	18	49.91
18	34.96	26	34.26	26	50.56	25	49.91
25	35.51	May 3	36.41	Aug. 2	50.46	Nov. 1	39.87
Feb. 1	34.41	10	36.46	9	50.36	8	39.76
8	33.41	17	34.76	16	50.56	15	48.16
15	33.76	24	36.36	23	50.46	22	43.16
22	36.26	31	36.16	31	50.71	29	40.56
Mar. 1	36.46	June 7	40.36	Sept. 6	50.66	Dec. 6	39.06
8	36.46	14	43.86	14	50.66	13	47.86
15	36.61	21	45.26	20	50.51	20	38.16
22	36.11	July 1	47.71	27	50.21	27	37.56
29	35.92	7	48.51	Oct. 4	50.11	30	37.71
Apr. 5	36.06						

Southampton County

29 (*945, p. 152; *987, p. 172; 1017, p. 347; 1024, p. 231). Virginian Railway. At Sebrell. Water levels, in feet below land-surface datum, 1946: Mar. 8, 30.20; Dec. 13, 30.70.

89 (*945, p. 152; 987, p. 172; 1017, p. 347; 1024, p. 231). Southampton County Courthouse. At Courtland. Water levels, in feet below land-surface datum, 1946: Mar. 8, 9.46; Dec. 13, 10.57.

205 (*945, p. 153; 987, p. 172; 1017, p. 347; 1024, p. 231). City of Franklin.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	22.75	Apr. 6	23.50	July 6	25.08	Oct. 5	24.33
12	22.83	12	22.00	13	24.50	12	24.50
19	23.17	20	21.66	20	25.25	19	24.83
26	22.83	27	21.66	27	27.50	26	24.66
Feb. 2	22.00	May 4	22.17	Aug. 3	26.66	Nov. 2	25.00
9	22.33	11	23.50	10	26.50	9	25.33
16	22.17	18	23.25	17	24.50	16	25.83
23	22.50	25	23.50	24	24.00	23	25.66
Mar. 2	22.83	June 1	24.00	31	23.83	30	25.33
9	23.17	8	24.50	Sept. 7	24.25	Dec. 7	24.83
16	23.25	15	24.25	14	24.50	14	25.50
23	23.50	22	25.50	21	24.00	21	23.50
30	23.33	29	25.00	28	24.66	28	23.33

Sussex County

90 (*907, p. 120; 937, p. 114; 945, p. 153; 987, p. 173; 1017, p. 347; 1024, p. 232). Jeb S. White. In Wakefield.

Water level, in feet below land-surface datum, 1946

Jan. 2	70.10	Apr. 8	69.20	July 8	71.02	Sept. 30	71.94
7	70.44	15	69.49	15	71.00	Oct. 7	70.96
14	70.26	22	70.32	22	70.60	14	71.10
21	70.22	29	70.49	29	70.88	21	71.16
Feb. 4	69.57	May 7	70.63	Aug. 5	70.73	28	71.08
11	69.55	13	70.41	12	71.09	Nov. 4	71.10
18	70.57	20	70.60	19	70.93	11	71.78
25	69.54	28	70.59	26	70.80	18	71.02
Mar. 4	70.14	June 3	71.17	Sept. 2	70.83	25	70.87
11	70.42	10	71.05	9	71.59	Dec. 2	71.17
18	70.14	17	70.78	16	71.10	9	71.27
25	70.24	24	70.40	23	71.00	16	71.18
Apr. 1	70.39	July 1	70.63				

Franklin area

Isle of Wight County

161 (*945, p. 151; 987, p. 171; 1017, p. 345; 1024, p. 232). Chesapeake-Camp Corporation.

Water level, in feet below land-surface datum, 1946

Jan. 7	16.20	Apr. 8	18.31	July 8	17.08	Oct. 7	19.36
14	16.77	15	18.28	15	18.58	14	19.32
21	16.98	22	18.48	22	18.74	21	19.34
28	17.51	29	17.47	29	19.12	28	19.34
Feb. 4	17.60	May 6	18.06	Aug. 5	18.98	Nov. 4	19.29
11	12.52	13	18.42	12	19.04	11	19.20
18	16.21	20	18.37	19	19.07	18	19.41
25	16.87	27	18.38	26	19.15	25	19.27
Mar. 4	17.33	June 3	18.52	Sept. 2	17.38	Dec. 2	19.00
11	17.66	10	18.72	9	18.71	9	18.97
18	17.75	17	18.23	16	19.15	16	18.91
Apr. 25	18.08	24	18.74	23	19.22	23	18.70
1	18.22	July 1	18.86	30	19.32	30	18.09

Northumberland County

Col. Dawson well. East Richlands Estate. 0.5 mile northeast of Byrdton. Measurements discontinued after Dec. 30, 1945.

Warwick County

Milstead 1 (*937, p. 114; 945, p. 153; 987, p. 173; 1017, p. 347; 1024, p. 233). At Fort Eustis. Equipped with automatic water-stage recorder.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	4.30	Apr. 12	3.77	July 13	2.92	Oct. 1	3.87
10	4.80	19	4.55	19	3.80	17	3.52
17	4.75	26	4.80	26	3.20	25	4.31
26	4.60	May 6	4.90	Aug. 2	4.33	Nov. 1	4.15
Feb. 1	4.55	10	3.80	9	2.98	8	3.76
8	4.67	17	4.65	16	3.65	15	4.48
15	3.55	24	6.70	23	2.83	22	4.41
21	4.55	31	3.93	30	4.15	29	4.37
Mar. 1	4.45	June 7	3.50	Sept. 6	3.70	Dec. 6	4.33
8	4.85	14	3.63	13	3.66	13	4.04
15	3.60	21	3.64	20	3.30	20	4.20
22	4.96	28	3.54	27	4.02	23	4.42
29	4.25	July 8	4.06	Oct. 4	3.95	27	4.80
Apr. 5	4.47						

York County

Camp Peary D6 (*987, p. 174; 1017, p. 348; 1024, p. 233). At Camp Peary, in block 11, about 1 mile east of main gate on State Highway 168 and 1 mile southwest of Magruder. Measurements discontinued after Dec. 31, 1945.

WEST VIRGINIA

By H. F. Johnston

PROGRAM OF WORK

The observation-well program in West Virginia was continued in 1946 in cooperation with the West Virginia Geological and Economic Survey as part of the investigation of the ground-water resources of the State.

During the year water levels were measured periodically in 24 wells and once in over 100 wells. Automatic water-stage recorders were maintained on 4 wells, 8 wells were measured weekly, 3 biweekly, 4 monthly, and 14 at irregular intervals. A total of 1,574 individual measurements of water level in wells or flow from springs and wells are listed in this report. Several hundred additional measurements of water level that were made during detailed testing of local water-supply installations are not listed as these records cover a relatively short period of time.

The general investigations of the ground-water resources in the State were continued during the year. Particular attention was given to the alluvial deposits along the Ohio River and Kanawha River. Detailed investigations were continued in the Parkersburg area where three large installations of collector-type wells were completed during the year. Serious shortages of water supply occurred in some parts of the State in the second half of the year. Data on local ground-water conditions furnished by the State and Federal Geological Surveys were used extensively throughout the State by municipal and individual groups during the year.

FLUCTUATIONS OF WATER LEVEL

The average precipitation in West Virginia during 1946, as recorded by the Weather Bureau, U. S. Department of Commerce, was 36.60 inches, which is 6.51 inches below normal and 13.77 inches less than in 1945. However, the precipitation varied greatly from month to month in the different sections of the State. Precipitation was 6.01 inches below normal

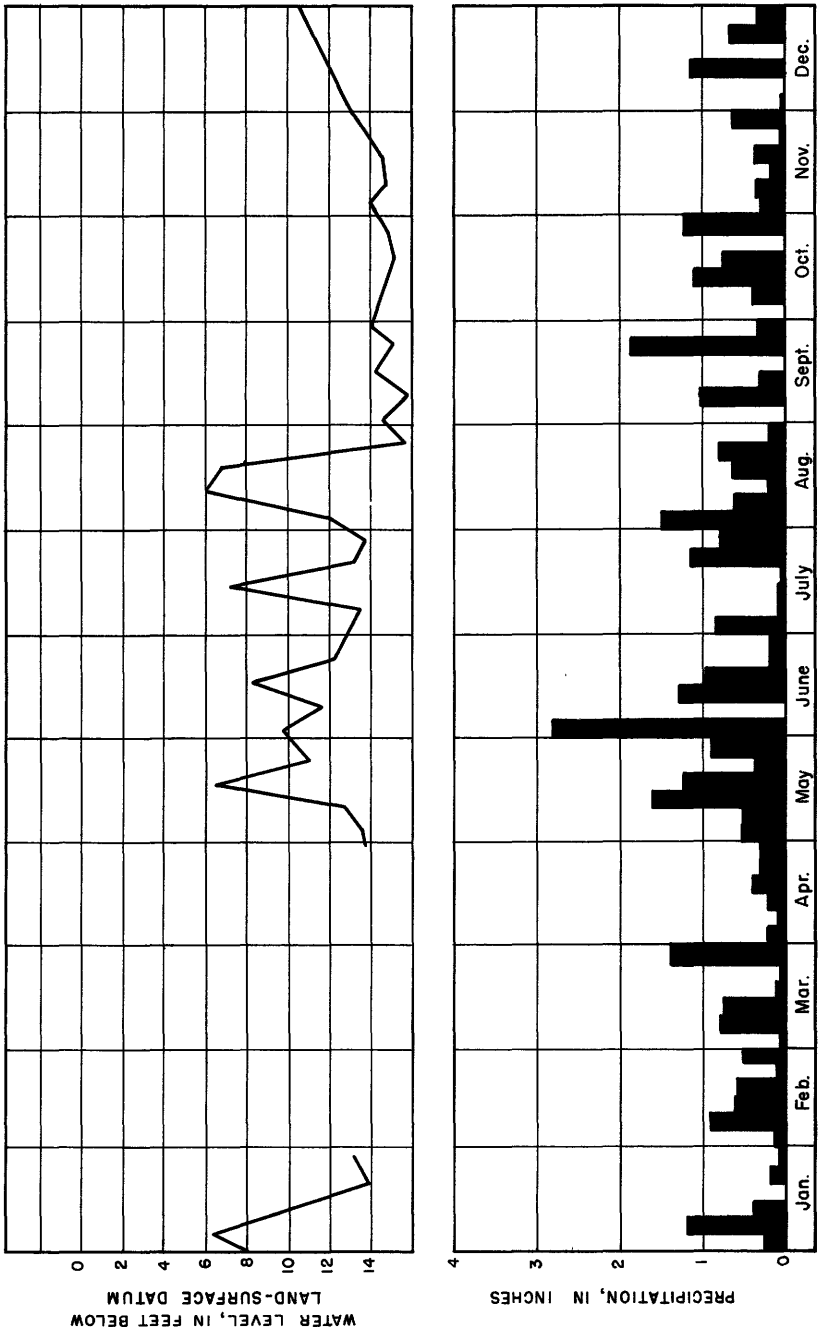

Figure 15.--Graph showing fluctuations of water levels in well 9-6-46, at Morgantown, W. Va., and the precipitation at Dam 10, Monongahela River.

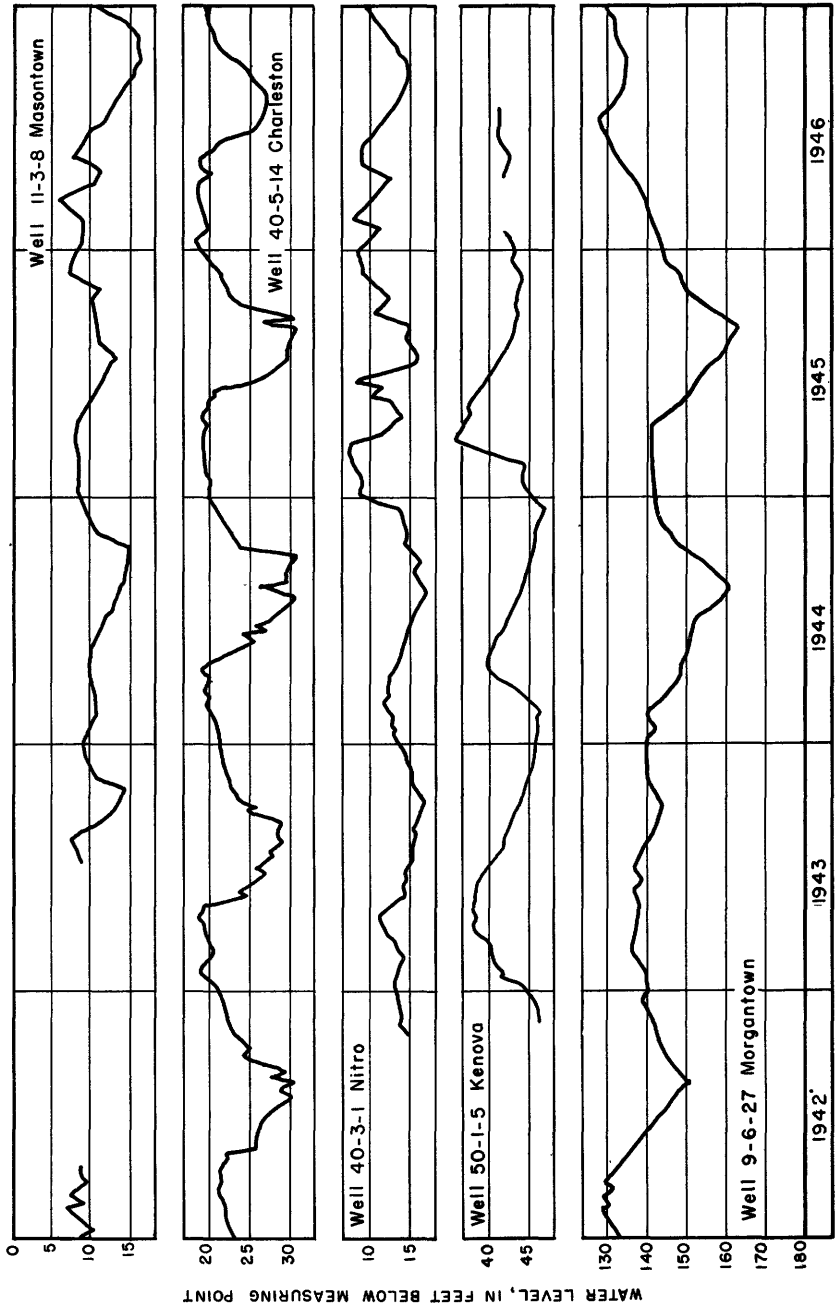

Figure 16.--Graphs showing fluctuations of water level in five typical observation wells in West Virginia.

in the northeastern panhandle division. 5.68 inches below normal in the northern division, and 6.79 inches below normal in the southern division. Above-normal precipitation occurred only in the second quarter of the year.

The water table generally rises after or during periods of heavy precipitation and declines during dry periods. However, the effects of precipitation on the height of the water table may be modified considerably by other factors such as the soil moisture content, transpiration and evaporation, and the freezing of the soil. Water levels generally were above normal as the year opened owing to the above-normal rainfall in 1945. The water levels declined during the last half of the year but were near normal as the year ended.

The water levels in wells ending in bedrock in areas of little or no pumpage fluctuated moderately during 1946 and were near normal at the end of the year. In the heavily pumped areas at Morgantown and Charleston, the water levels were above normal for the year. The higher water levels may have been caused in part by the reduction in pumpage for air-conditioning during the relatively mild summer. The water level in well 9-6-27, at Morgantown, was considerably above normal for the year. The cause of this high position of the water level is not known at the present time. The aquifer tapped by this well crops out at least 5 miles east of Morgantown, hence, there may be an appreciable time lag between the time of precipitation and a measurable effect on the water level in this well.

The water level in well 9-6-46, at Morgantown, a water-table well, was at its lowest recorded level, 15.80 feet below the land surface, on September 26, due chiefly to deficiency in precipitation.

The water level was above normal throughout the year in well 40-3-1, at Nitro. The seasonal decline in September and October was not as great as in former years.

The position of the water levels in the wells ending in the alluvium along the Ohio River is related directly to the quantity of water that infiltrates into the alluvium from the river. The pumpage in this section was fairly constant throughout the year.

WELL-NUMBERING SYSTEM

Observation wells in West Virginia have been assigned segmented numbers that indicate their location by county, magisterial district, and

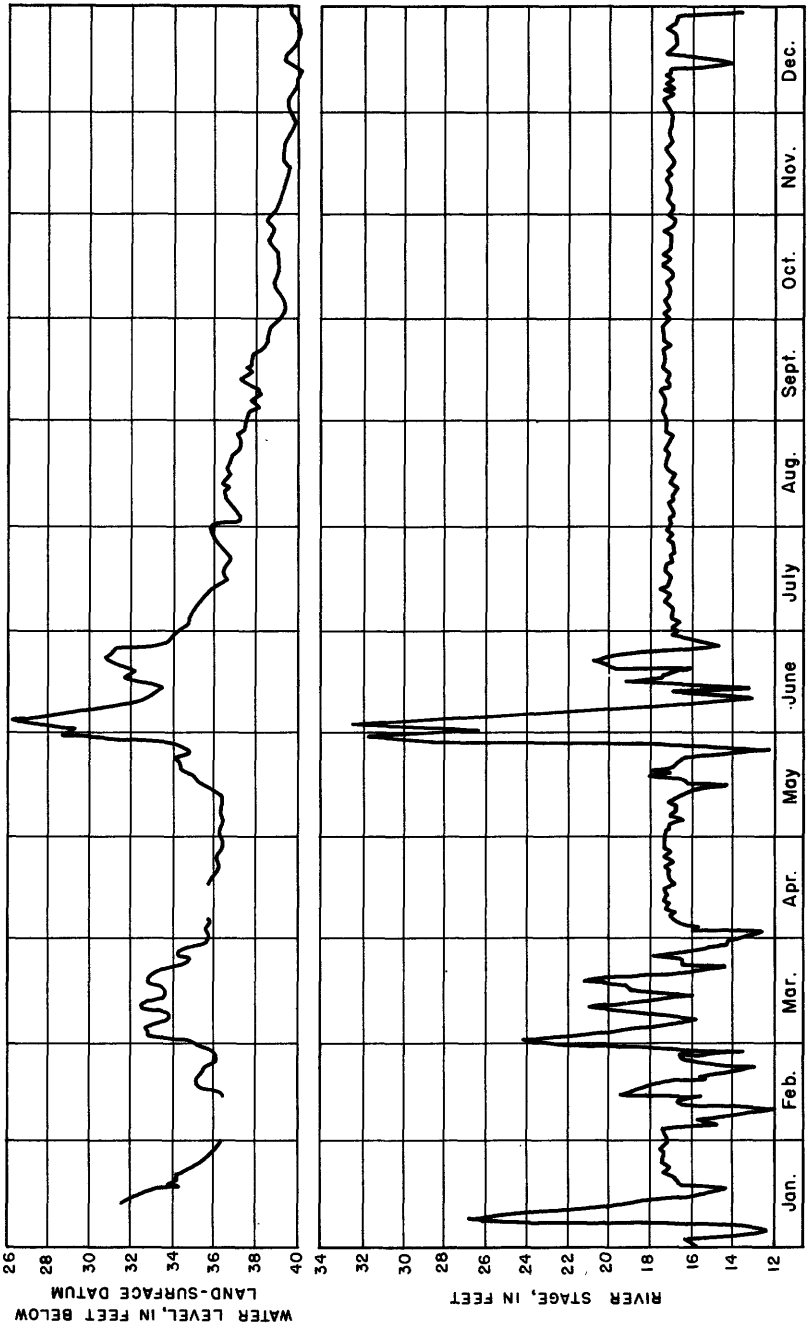

Figure 17.--Graph showing fluctuations of water level in well 27-3-20, at Parkersburg, W. Va., and daily river stage at Dam 19, Ohio River.

graphic position within a district. For this purpose the counties are numbered consecutively in a general southward direction, beginning with Hancock County, which is at the northern tip of the State. The magisterial districts within each county are also numbered consecutively according to the same plan, beginning with the northernmost district; then, in each district the individual wells are numbered consecutively, roughly according to their geographic location relative to other wells in the same district. Thus, in the segmented number 9-6-27, which is assigned to a well in Morgantown, 9 represents Monongalia County, 6 represents Morgan district, and 27 represents the individual well in that district. Springs and mine drains are identified by the addition of the letter S to the final segment of the number, as 9-6-S1.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Fayette County

42-1-1 (*987, p. 182; 1017, p. 356; 1024, p. 237). J. H. Simms. In Boomer, Falls district, southeast of crossroads. No measurements made in 1946.

42-4-1 (*945, p. 158; 987, p. 182; 1017, p. 356; 1024, p. 238). Baldwin Supply Co. At Montgomery, Kanawha district.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Mar. 5	24.71	May 22	32.90	Sept.17	33.23	Dec. 20	23.20
Apr. 19	25.90	Aug. 29	33.23	Nov. 20	24.86	27	25.32
May 2	31.80						

42-4-2 (*945, p. 158; *987, p. 182; 1017, p. 356; 1024, p. 238). Virginian Railway Co. At Deepwater, Kanawha district. No measurements made in 1946.

Harrison County

12-2-26 (*945, p. 158; 987, p. 186; 1017, p. 356; 1024, p. 238). City of Lumberport. At Lumberport along Jones Creek, 0.5 mile northwest of State Highway 20, Eagle district. No measurements made in 1946.

Jackson County

30-2-1 (*945, p. 159; 987, p. 182; 1017, p. 357; 1024, p. 238). City of Ravenswood. In Ravenswood, Ravenswood district, at old waterworks plant. Well covered; no measurements made in 1946.

30-2-2 (*987, p. 183; 1017, p. 357; 1024, p. 238). City of Ravenswood. In Ravenswood, Ravenswood district, at old waterworks plant. Well covered; no measurements made in 1946.

Kanawha County

40-3-1 (*945, p. 159; 987, p. 183; 1017, p. 357; 1024, p. 238). L. T. Smith. At Nitro, Union district, along 40th Street, 0.45 mile west of U. S. Highway 35.

40-3-1--Continued.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5	5.40	Apr. 18	8.78	July 29	9.94	Oct. 17	11.21
10	4.60	24	9.56	Aug. 28	11.20	23	11.54
15	6.64	29	8.81	Sept.12	11.58	30	11.50
29	8.61	May 6	4.15	20	11.70	Dec. 26	7.50
Feb. 5	6.53	30	5.71	30	11.74	31	4.50
16	4.28	July 20	8.88				

40-5-14 (*937, p. 117; 945, p. 159; 987, p. 183; 1017, p. 357; 1024, p. 238). Coyle & Richardson Department Store. At Charleston, Charleston district.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 10	30.69	Apr. 19	32.79	July 18	38.36	Oct. 4	34.68
28	31.80	May 2	30.95	26	38.52	17	34.07
31	31.67	10	30.97	Aug. 1	39.30	24	33.57
Feb. 14	30.97	16	30.78	8	39.02	31	33.26
21	31.39	23	30.88	15	39.37	Nov. 14	33.02
Mar. 4	31.20	29	32.98	22	39.44	22	32.89
14	30.96	June 6	33.13	30	38.20	27	32.82
21	30.74	17	37.10	Sept. 6	37.68	Dec. 6	32.58
29	30.89	27	38.05	12	37.75	16	32.39
Apr. 4	30.90	July 5	37.67	17	37.27	19	32.54
11	31.02	11	38.32	26	37.23	27	32.25

40-5-15 (*945, p. 159; 987, p. 183; 1017, p. 357; 1024, p. 238). Valley Bell Dairy. At Charleston. Charleston district, along Delmar Avenue, 600 feet from Roane Avenue. No measurements made in 1946.

Mason County

38-3-3 (*945, p. 160; 987, p. 184; 1017, p. 358; 1024, p. 239). West Virginia Industrial School. At Lakin, Robinson district. No measurements made in 1946.

38-3-4 (*945, p. 160; 987, p. 184; 1017, p. 358; 1024, p. 239). V. K. Smith. At Kaylong, Robinson district. 1 mile south of post office. No measurements made in 1946.

38-3-5 (*945, p. 160; 987, p. 158; 1017, p. 358; 1024, p. 239). Homer Smith. At Kaylong, Robinson district, 1.2 miles south of Lakin. No measurements made in 1946.

38-3-6 (*945, p. 160; 987, p. 185; 1017, p. 358; 1024, p. 239). West Virginia Ordnance Works. At Kaylong, Robinson district. Measurements discontinued.

38-3-8 (*1017, p. 358; 1024, p. 239). West Virginia Ordnance Works well P-1-16. At Kaylong, Robinson district. Measurements discontinued.

38-3-9 (*1017, p. 359; 1024, p. 239). West Virginia Ordnance Works well P-3-2. At Kaylong, Robinson district. Measurements discontinued.

38-3-10 (*1017, p. 361; 1024, p. 239). West Virginia Ordnance Works well P-4-3. At Kaylong, Robinson district. Measurements discontinued.

38-3-11 (*1017, p. 362; 1024, p. 240). West Virginia Ordnance Works well P-6-2. At Kaylong, Robinson district. Measurements discontinued.

38-3-12 (*1017, p. 363; 1024, p. 241). C. C. Lewis. 1.1 miles south of York Station, Robinson district. No measurements made in 1946.

Monongalia County

Wells 9-2-1, 9-2-2, 9-2-2a, and 9-2-3 are in the town of Blacksville which is partly in Clay district, Monongalia County, W. Va., and partly in Wayne township, Greene County, Pa. These wells are actually in Pennsylvania, a few feet north of the West Virginia boundary. They are listed in this report with West Virginia wells because Blacksville post office is in West Virginia.

9-2-1 (*937, p. 117; 945, p. 161; 987, p. 186; 1017, p. 363; 1024, p. 241). D. C. Johnson. At Blacksville. No measurements made in 1946.

9-2-2 (*937, p. 117; 945, p. 161; 987, p. 186; 1017, p. 364; 1024, p. 241). Earl Miller. At sawmill in Blacksville. No measurements made in 1946.

9-2-2A (*987, p. 186; 1017, p. 364; 1024, p. 241). Earl Miller. Dug well at sawmill in Blacksville. No measurements made in 1946.

9-2-3 (*937, p. 117; 945, p. 161; 987, p. 187; 1017, p. 364; 1024, p. 241). Eli Huss. At Blacksville. No measurements made in 1946.

9-6-1 (*937, p. 117; 945, p. 161; 987, p. 187; 1017, p. 364; 1024, p. 241). Baltimore & Ohio Railroad. At Sabraton, Morgan district, at mouth of Aaron's Creek.

Rate of flow, in gallons a minute, 1946

Date	Rate of flow	Date	Rate of flow	Date	Rate of flow	Date	Rate of flow
Jan. 3	20.0	June 22	23.0	Sept. 16	27.9	Nov. 5	24.0
21	23.3	July 12	25.5	23	27.0	18	21.0
Feb. 16	20.0	Aug. 5	27.0	30	27.0	25	22.5
Mar. 18	24.0	12	26.4	Oct. 7	30.0	Dec. 3	23.0
Apr. 10	18.9	26	27.0	14	27.0	9	23.0
30	19.5	Sept. 3	24.0	21	28.1	16	24.0
May 22	22.5	9	26.4	28	25.5	30	21.0
June 5	24.0						

9-6-27 (*937, p. 118; 945, p. 161; 987, p. 187; 1017, p. 364; 1024, p. 241). T. J. Johnson. At Morgantown, Morgan district, east end of Foundry Street.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level		Water level		Water level
Jan. 1	147.62	May 8	135.83	Aug. 5	133.71	Oct. 22	135.83
21	144.97	16	135.36	12	135.35	28	136.23
29	145.14	23	134.75	26	136.22	Nov. 5	135.57
Feb. 16	143.86	29	134.73	Sept. 7	135.68	12	134.93
28	142.62	June 5	133.46	16	136.64	18	134.76
Mar. 18	141.23	22	132.84	23	136.61	Dec. 3	134.95
Apr. 10	140.29	July 8	130.37	30	136.10	9	134.86
20	138.58	12	130.03	Oct. 7	138.64	16	134.72
30	137.09	22	133.47	14	136.09	30	132.34
May 3	136.53	29	133.41				

Preston County

11-3-3 (*937, p. 118; 945, p. 162; 987, p. 188; 1017, p. 365; 1024, p. 242). Preston County Coal & Coke Co. At Cascade, Valley district.

Water level, in feet below land-surface datum, 1946

Jan. 3	4.75	Apr. 10	5.27	June 22	5.01	Aug. 26	a 21.10
21	5.18	30	5.25	July 6	6.47	Sept. 3	a 18.82
Feb. 18	4.98	May 5	4.75	22	5.92	9	a 16.48
Mar. 18	4.63	June 5	4.54	Aug. 19	a 19.85		

a Pumping.

862463 O—49——18

11-3-3A (*987, p. 189; 1017, p. 365; 1024, p. 242). Preston County Coal & Coke Co. At Cascade, Valley district. Pump installed on July 27; well filled.

Water level, in feet below land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	3.66	Mar. 18	3.36	May 22	3.86	July 6	5.77
21	4.57	Apr. 10	4.66	June 5	3.82	22	6.39
Feb. 18	3.98	30	4.54	22	4.68		

11-3-4 (*937, p. 118; 945, p. 162; 987, p. 189; 1017, p. 365; 1024, p. 242). Masontown well 4. At Oak Park, Valley district. No measurements made in 1946.

11-3-8 (*937, p. 119; 945, p. 162; 987, p. 189; 1017, p. 365; 1024, p. 242). G. F. Lemmons. At Masontown, Valley district, on East Depot Street. Automatic water-stage recorder installed in July.

Water level, in feet below land-surface datum, 1946

Jan. 3	13.73	Mar. 18	11.68	Apr. 30	17.31	June 22	15.51
21	14.92	Apr. 10	16.16	May 22	13.67	July 6	16.93
Feb. 18	14.57						

Highest and lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	18.28	18.37	20.09	20.13	21.14	21.22	21.02	21.07	20.95	21.21
2	.....	.....	18.36	18.40	20.13	20.24	21.22	21.37	21.00	21.07	21.23	21.38
3	.....	.....	18.38	18.49	20.26	20.32	21.37	21.42	21.01	21.07	21.06	21.35
4	.....	.....	18.46	18.52	20.32	20.44	21.42	21.50	21.01	21.23	21.03	21.14
5	.....	.....	18.48	18.51	20.43	20.50	21.50	21.55	21.10	21.28	20.92	21.13
6	16.93	16.96	18.50	18.54	20.45	20.52	21.47	21.55	21.10	21.24	20.96	21.02
7	16.96	17.09	18.58	18.69	20.49	20.55	21.35	21.47	21.12	21.42	21.00	21.06
8	17.09	17.18	18.69	18.77	20.55	20.62	21.39	21.45	21.22	21.27	21.03	21.09
9	17.18	17.30	18.68	18.78	20.62	20.67	21.44	21.53	21.37	21.50	21.04	21.14
10	17.31	17.45	18.68	18.87	20.53	20.67	21.51	21.65	21.35	21.47	20.90	21.12
11	17.45	17.50	18.87	19.03	20.60	20.73	21.64	21.67	21.32	21.52	20.95	21.05
12	17.50	17.68	19.03	19.12	20.73	20.85	21.58	21.91	21.53	21.30	20.55	20.95
13	17.68	17.79	19.12	19.20	20.85	20.91	21.91	22.01	21.42	21.59	20.15	20.64
14	17.78	17.88	19.22	19.30	20.85	20.91	21.90	21.99	21.40	21.45	19.53	20.15
15	17.88	18.05	19.30	19.34	20.88	20.98	21.86	21.95	21.45	21.52	19.32	19.53
16	18.05	18.17	19.33	19.34	20.97	21.08	21.71	21.86	21.49	21.55	19.15	19.34
17	18.17	18.23	19.19	19.29	21.02	21.09	21.53	21.71	21.52	21.68	19.10	19.33
18	18.23	18.30	19.15	19.25	21.09	21.14	21.40	21.53	21.51	21.67	19.32	19.40
19	18.30	18.33	19.20	19.35	21.10	21.17	21.68	21.78	21.29	21.51	19.40	19.51
20	.....	.....	19.35	19.46	21.03	21.12	21.70	21.75	21.22	21.29	19.03	19.43
21	.....	.....	19.46	19.52	21.02	21.20	21.71	21.77	21.08	21.20	18.65	19.03
22	18.20	18.24	19.50	19.61	21.20	21.31	21.61	21.72	21.01	21.08	18.35	18.65
23	18.15	18.26	19.54	19.62	21.25	21.37	21.55	21.62	21.19	21.24	17.44	18.35
24	18.20	18.26	19.60	19.62	21.34	21.42	21.37	21.60	21.02	21.20	17.18	17.44
25	18.17	18.23	19.60	19.66	21.25	21.34	21.29	21.38	21.05	21.15	16.93	17.18
26	18.29	18.31	19.65	19.70	21.21	21.28	21.35	21.50	21.00	21.20	16.89	17.04
27	18.25	18.31	19.67	19.71	21.23	21.29	21.53	21.59	21.20	21.35	16.88	17.08
28	18.25	18.33	19.69	19.74	21.20	21.29	21.37	21.53	21.20	21.38	16.86	17.21
29	18.25	18.32	19.72	19.85	21.09	21.22	21.18	21.37	21.20	21.33	16.93	17.21
30	18.21	18.28	19.85	19.93	21.13	21.19	21.10	21.18	21.00	21.24	16.50	16.93
31	18.21	18.28	19.93	20.09			21.07	21.10			16.27	16.50

11-3-14 (*937, p. 119; 945, p. 162; 987, p. 189; 1017, p. 365; 1024, p. 242). Belfort Corporation. Formerly owned by National Youth Administration. Near plant at Reedsville, Valley district.

11-3-14--Continued.

Water level, in feet with reference to land-surface datum, 1946

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 3	+0.41	Apr. 30	+0.06	Oct. 7	-0.44	Nov. 5	+0.18
21	+.51	Sept.16	-.84	21	-.45	Dec. 3	-.35
Feb. 18	+.40						

11-3-51 (*937, p. 119; 945, p. 162; 987, p. 189; 1017, p. 365; 1024, p. 242). Elmer Smith. About 1 mile northwest of Sutherland, Valley district. No measurements made in 1946.

Putnam County

39-1-7 (*987, p. 189; 1017, p. 366; 1024, p. 242). C. C. Wears. At south edge of Buffalo, Buffalo district, near church.

Water level, in feet below land-surface datum, 1946

Jan. 5	4.77	Mar. 30	2.18	July 7	7.26	Oct. 19	11.93
12	2.10	Apr. 13	7.93	13	13.85	26	10.35
19	11.85	20	10.26	20	14.77	Nov. 2	11.85
26	11.10	27	12.26	27	16.01	5	5.01
Feb. 2	7.43	May 4	7.35	Aug. 8	17.85	9	6.93
9	4.85	11	8.43	13	16.76	16	12.85
16	2.93	18	8.43	24	12.85	23	12.85
23	3.35	25	9.35	Sept. 7	16.01	Dec. 7	13.18
Mar. 2	3.76	June 1	1.26	21	14.93	14	6.85
9	4.93	8	3.85	28	15.93	22	8.85
16	2.76	15	7.26	Oct. 12	11.76	28	7.76
23	2.35	29	9.93				

39-1-8 (*987, p. 189; 1017, p. 366; 1024, p. 243). H. E. Fruth. At Buffalo, Buffalo district, about 1 mile south of church. No measurements made in 1946.

39-1-10 (*945, p. 162; 987, p. 189; 1017, p. 366; 1024, p. 243). Burgess Tate. At Woods, Buffalo district, along highway. No measurements made in 1946.

Wayne County

50-1-5 (*945, p. 162; 987, p. 190; 1017, p. 366; 1024, p. 243). Ashland Oil & Refining Co. At Kenova, Ceredo district, at refining plant.

Water level, in feet below land-surface datum, 1946

Jan. 5	38.97	May 28	37.92	July 31	(b)	Oct. 30	(b)
26	37.16	June 8	a 36.90	Aug. 15	36.89	Nov. 7	(b)
Mar. 4	36.98	16	36.43	23	36.80	15	(b)
Apr. 19	36.58	20	36.39	Sept. 5	(b)	21	(b)
25	36.95	26	36.12	12	36.89	29	(b)
29	37.16	30	36.30	20	36.80	Dec. 7	(b)
May 3	37.46	July 4	36.50	26	(b)	14	(b)
9	37.78	11	36.76	Oct. 3	(b)	21	(b)
16	37.93	19	(b)	10	(b)	27	(b)
23	37.87	26	(b)	17	36.80		

a Plugged at this depth.
b Dry.

Wetzel County

6-1-1 (*987, p. 190; 1017, p. 366; 1024, p. 243). Ida Monroe. At Proctor, Proctor district, about 0.75 mile east of church. No measurements made in 1946.

Wood County

27-3-20. (*987, p. 190; 1017, p. 367; 1024, p. 243). City of Parkersburg well 4. At Parkersburg, Parkersburg district.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	34.15	35.46	36.20	29.16	34.46	36.75	37.58	39.23	38.82	39.49
2	.....	.....	32.61	35.62	36.18	28.65	34.65	37.23	37.51	39.23	38.90	39.47
3	.....	.....	32.67	35.55	36.20	26.51	34.72	37.23	38.13	39.22	38.94	39.46
4	.....	.....	32.39	35.70	36.21	26.01	34.73	37.10	37.99	39.24	38.98	39.45
5	.....	.....	32.67	35.70	36.25	26.66	34.82	37.12	37.71	39.17	39.05	39.65
6	.....	36.11	33.26	35.69	36.30	28.11	34.97	36.80	37.97	39.22	39.08	39.30
7	.....	35.95	33.75	.....	36.23	29.44	35.07	36.47	38.15	39.07	39.17	39.84
8	.....	36.17	33.77	.....	36.25	30.30	35.07	36.36	38.25	38.97	39.29	39.88
9	.....	.....	33.90	.....	36.26	31.92	35.18	36.24	38.25	38.97	39.31	39.92
10	.....	.....	33.38	.....	36.32	32.75	35.25	36.31	37.77	38.83	39.33	39.95
11	.....	.....	32.40	.....	36.25	33.05	35.41	36.60	37.35	38.81	39.42	40.01
12	.....	.....	32.41	.....	36.23	33.30	35.72	36.71	37.33	38.81	39.40	40.02
13	31.63	.....	32.97	.....	36.19	33.52	35.99	36.11	37.19	38.90	39.44	40.06
14	31.78	36.23	33.50	.....	36.09	33.41	36.17	36.45	37.72	38.89	39.45	39.83
15	32.38	35.74	33.74	.....	35.79	32.50	36.30	36.70	37.46	38.86	39.22	39.21
16	32.69	35.19	33.64	.....	35.29	31.80	36.25	36.62	37.42	38.85	39.23	39.25
17	33.14	35.00	33.17	35.74	35.20	31.66	36.25	36.48	37.78	38.85	39.24	39.28
18	34.24	35.04	32.98	35.89	34.86	32.09	36.20	36.51	37.79	38.90	39.20	39.30
19	33.94	35.02	32.75	35.90	34.87	32.10	36.31	36.68	37.83	38.96	39.21	39.49
20	33.98	35.14	32.61	36.06	34.25	31.80	36.45	36.62	38.00	38.95	39.28	39.65
21	34.24	35.37	33.14	36.07	34.19	31.13	36.63	36.63	38.28	38.75	39.40	39.83
22	34.19	35.55	33.75	36.05	34.25	30.89	36.67	36.90	38.40	38.49	39.56	39.92
23	34.65	35.75	34.42	36.08	34.02	30.53	36.36	37.04	38.49	38.35	39.60	39.98
24	35.18	35.86	34.64	36.07	33.95	30.98	36.20	37.14	38.55	38.55	39.61	40.00
25	35.29	35.85	34.83	36.04	34.49	31.09	36.05	37.22	38.59	38.70	39.65	40.00
26	35.56	35.88	34.88	36.22	34.81	33.10	35.95	37.20	38.59	38.80	39.74	40.02
27	35.76	35.93	34.35	36.22	34.49	33.50	35.87	37.00	38.58	38.80	39.75	40.04
28	35.83	35.66	34.73	36.21	34.19	33.61	35.81	37.21	38.71	38.55	39.75	39.93
29	35.85		34.92	36.22	32.48	33.70	35.80	37.35	38.89	38.37	39.66	39.81
30	35.95		35.64	36.23	29.79	34.26	35.75	37.43	39.07	38.56	39.53	39.68
31	36.14		35.63		28.66		35.76	37.41		38.73		39.41

27-3-22 (*987, p. 191; 1017, p. 368). City of Parkersburg test well F. At Parkersburg, Parkersburg district, on terrace about 700 feet from Ohio River and 600 feet northeast of municipal pumping plant.

Highest and lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	31.43	31.50	29.20	30.06	30.68	30.90	32.19	32.24	24.99	.....
2	.....	.....	31.45	31.65	29.17	29.33	30.85	31.07	32.17	32.20	.....	.....
3	.....	.....	31.61	31.71	29.01	29.25	31.00	31.17	32.20	32.25	24.74	25.42
4	.....	.....	31.59	31.64	28.93	29.05	31.00	31.36	32.15	32.43	24.35	24.74
5	.....	.....	31.48	31.62	28.91	29.00	31.24	31.36	32.20	32.43	24.34	24.66
6	.....	.....	31.57	31.70	28.99	29.34	31.30	31.58	.....	.....	24.66	25.50
7	.....	.....	31.65	31.80	29.34	29.78	31.35	31.46	.....	.....	25.50	26.43
8	.....	.....	31.61	31.77	29.47	29.76	31.29	31.54	.....	.....	26.43	27.14
9	.....	.....	31.69	31.98	29.70	30.00	31.54	31.69	.....	.....	27.14	28.00
10	.....	.....	31.80	32.13	29.12	29.70	31.54	31.65	.....	.....	28.00	28.63
11	.....	.....	32.07	32.22	28.82	29.12	31.43	31.64	.....	.....	.....	.....
12	.....	.....	31.80	32.03	28.67	28.83	31.55	31.77	32.34	32.42	.....	.....
13	.....	.....	31.47	31.89	28.78	29.10	31.64	31.73	32.20	32.40	.....	.....
14	.....	.....	31.23	31.75	29.10	29.37	31.62	31.72	32.08	32.25	.....	.....
15	.....	.....	31.06	31.58	29.37	29.62	31.63	31.77	31.77	32.09	.....	.....
16	.....	.....	30.83	31.06	29.21	29.56	31.77	31.93	31.63	31.77	.....	.....
17	.....	.....	30.86	30.90	28.70	29.12	31.73	31.85	31.28	31.70	.....	.....
18	.....	.....	30.58	30.92	23.92	29.10	31.54	31.81	31.29	31.42	.....	.....
19	.....	.....	30.47	30.91	28.73	29.00	31.71	31.90	31.07	31.40	.....	.....
20	.....	.....	30.83	30.97	28.60	28.74	31.77	32.05	.....	.....	.....	.....

27-3-22--Continued.

Highest and lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	January		February		March		April		May		June	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
21	.....	.....	30.77	31.03	28.69	28.90	31.87	32.00	.....	.....	.....	.....
22	.....	.....	30.75	31.08	28.90	29.42	31.90	31.98	.....	.....	.....	.....
23	.....	.....	30.91	31.00	29.42	29.96	31.87	32.03	.....	.....	.....	.....
24	.....	.....	30.99	31.18	29.96	30.20	31.95	32.05	.....	.....	.....	.....
25	.....	.....	30.98	31.17	30.20	30.32	31.86	32.04	.....	.....	.....	.....
26	.....	.....	31.00	31.22	28.14	30.32	32.04	32.15	31.90	31.91	.....	.....
27	.....	.....	31.07	31.30	29.76	30.14	32.13	32.16	31.60	31.90	.....	.....
28	31.05	31.25	30.06	31.07	29.75	30.16	32.08	32.20	30.75	31.60	.....	.....
29	31.10	31.24			30.17	30.40	32.10	32.21	29.16	30.75	.....	.....
30	31.09	31.25			30.70	31.40	32.17	32.24	27.95	29.16	.....	.....
31	31.25	31.50			30.78	31.00			27.75	27.95		

Highest and lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	July		August		September		October		November		December	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
1	.....	.....	32.06	32.46	33.18	33.28	34.24	34.34	34.27	34.34	35.01	35.13
2	.....	.....	32.40	32.54	33.21	33.27	34.32	34.39	34.37	34.44	35.05	35.13
3	.....	.....	32.40	32.63	32.92	33.27	34.32	34.40	34.39	34.46	34.98	35.06
4	.....	.....	32.55	32.70	32.84	32.93	34.37	34.45	34.43	34.54	34.99	35.08
5	.....	.....	32.50	32.61	32.90	33.26	34.41	34.46	34.46	34.57	35.02	35.12
6	.....	.....	32.45	32.50	33.26	33.42	34.40	34.50	34.43	34.51	35.12	35.20
7	.....	.....	32.40	32.47	33.42	33.52	34.29	34.39	34.45	34.56	35.14	35.21
8	.....	.....	32.38	32.41	33.52	33.60	34.27	34.36	34.56	34.67	35.18	35.22
9	.....	.....	32.26	32.38	33.41	33.60	34.30	34.35	34.63	34.69	35.20	35.24
10	.....	.....	32.35	32.45	33.50	33.66	34.30	34.35	34.60	34.67	35.17	35.28
11	.....	.....	32.44	32.60	33.60	33.77	34.27	34.33	34.60	34.79	35.26	35.32
12	.....	.....	32.55	32.60	33.77	33.85	34.27	34.37	34.71	34.75	35.17	35.34
13	.....	.....	32.54	32.58	33.83	33.91	34.35	34.42	34.68	34.75	35.35	35.45
14	.....	.....	32.47	32.70	33.61	33.95	34.30	34.38	34.50	34.76	34.94	35.24
15	.....	.....	32.67	32.74	33.62	33.86	34.30	34.38	34.65	34.73	34.84	34.98
16	.....	.....	32.69	32.75	33.82	33.90	34.29	34.35	34.69	34.75	34.77	34.90
17	.....	.....	32.63	32.70	33.81	33.90	34.25	34.34	34.70	34.83	34.98	35.03
18	.....	.....	32.60	32.70	33.78	33.88	34.24	34.41	34.66	34.76	34.89	34.95
19	31.93	31.99	32.66	32.82	33.76	33.84	34.39	34.46	34.67	34.73	34.88	34.99
20	31.99	32.09	32.72	32.81	33.71	33.77	34.36	34.43	34.66	34.80	34.88	34.98
21	32.06	32.16	32.75	32.82	33.75	33.88	34.24	34.38	34.80	34.85	35.07	35.14
22	32.06	32.20	32.77	32.90	33.86	33.94	34.19	34.27	34.85	34.97	35.14	35.22
23	32.07	32.13	32.90	32.97	33.86	34.01	34.14	34.22	34.95	35.00	35.08	35.21
24	31.96	32.10	32.92	33.02	33.96	34.18	34.13	34.22	34.91	34.98	35.11	35.25
25	31.93	32.05	32.99	33.08	33.99	34.06	34.18	34.34	35.00	35.04	35.16	35.25
26	31.93	32.01	33.04	33.09	33.98	34.08	34.37	34.32	35.00	35.15	35.22	35.26
27	31.89	31.96	32.99	33.07	33.95	34.03	34.31	34.40	35.07	35.17	35.15	35.25
28	31.90	31.96	33.04	33.12	33.96	34.01	34.20	34.35	35.00	35.15	35.17	35.32
29	31.90	31.96	33.12	33.22	34.03	34.18	34.13	34.25	35.05	35.15	35.08	35.30
30	31.85	31.95	33.18	33.25	34.15	34.24	34.18	34.24	34.99	35.05	35.05	35.22
31	31.85	32.06	33.23	33.28			34.24	34.34			34.83	35.01

27-3-27 (#1017, p. 368; 1024, p. 244). City of Parkersburg well 18. At Parkersburg, Parkersburg district.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Dec.
1	.....	32.50	30.46	31.12	31.87	24.58	30.12	.....	32.85	35.62	35.39
2	.....	32.55	29.98	31.19	31.84	24.18	30.21	.....	32.95	35.61	36.35
3	.....	32.67	29.81	31.20	31.85	22.20	30.28	.....	32.82	35.45	35.33
4	30.37	32.72	29.41	31.31	31.90	21.56	30.33	.....	33.44	35.45	35.42
5	30.35	32.57	29.49	31.30	31.90	21.88	30.42	.....	33.90	35.47	35.69
6	30.40	32.42	29.79	31.33	31.93	23.00	30.53	.....	34.13	35.81	35.91
7	30.17	32.43	30.20	31.37	31.90	24.15	30.64	.....	34.30	35.66	36.01

27-3-27--Continued.

Lowest daily water level, in feet below land-surface datum, 1946
(From recorder charts)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Dec.
8	29.25	32.42	30.39	31.44	31.92	24.95	30.67	.....	34.42	35.46	36.08
9	28.04	32.51	30.55	31.53	31.95	26.80	30.80	.....	34.46	35.35	36.11
10	27.12	32.77	30.41	31.48	32.00	27.72	30.90	.....	34.44	35.28	36.16
11	26.62	32.93	29.97	31.49	31.99	28.30	31.10	.....	34.54	35.25	36.20
12	26.67	32.87	29.59	31.55	31.96	28.46	31.33	.....	34.65	35.27	36.27
13	26.77	32.61	29.68	31.50	31.95	28.65	31.67	.....	34.70	35.27	36.33
14	26.80	32.54	29.97	31.49	31.62	28.20	31.94	.....	34.70	.....	36.08
15	26.97	32.20	30.25	31.54	31.20	27.81	32.00	.....	34.70	.....	35.72
16	27.44	31.97	30.25	31.61	31.20	27.20	31.80	.....	34.35	.....	35.43
17	27.64	31.74	29.94	31.55	30.95	27.11	31.75	.....	34.07	.....	35.55
18	28.07	31.62	29.59	31.59	30.63	27.46	31.68	.....	33.83	.....	35.80
19	28.80	31.46	29.45	31.59	30.45	27.55	31.64	.....	33.62	.....	36.15
20	28.84	31.32	29.38	31.65	30.15	27.30	31.63	.....	33.77	.....	36.35
21	28.97	31.64	29.40	31.48	29.95	26.84	31.13	.....	34.07	.....	36.52
22	29.58	31.85	29.91	31.69	29.90	26.60	31.23	.....	34.16	.....	36.60
23	30.19	32.12	30.40	31.72	29.73	26.24	31.48	.....	34.42	.....	36.67
24	30.87	32.30	30.85	31.75	29.62	26.50	.....	.....	34.49	.....	36.75
25	31.20	32.37	31.15	31.70	29.86	27.28	.....	.....	34.54	.....	36.75
26	31.60	32.57	31.32	31.90	30.15	28.03	.....	.....	34.70	.....	36.75
27	31.83	32.65	31.30	31.88	30.15	28.54	.....	.....	34.84	.....	36.76
28	31.97	31.77	31.28	31.86	29.92	28.96	.....	.....	34.97	.....	36.60
29	32.02		31.18	31.87	28.91	29.17	.....	.....	35.23	.....	36.40
30	32.11		31.35	31.87	27.70	29.80	.....	.....	35.54	.....	36.15
31	32.30		31.37		24.65		.....	33.06		.....	36.00