

Water Levels and Artesian Pressure in Observation Wells in the United States in 1947

Part 2. Southeastern States

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

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Prepared in cooperation with the States of Alabama, Florida, Georgia, Kentucky, Maryland, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, and West Virginia and other agencies



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GEOLOGICAL SURVEY

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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, South Carolina, Tennessee, Virginia, and West Virginia and other agencies, by personnel of the Water Resources Division under the direction of:

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WATER LEVELS AND ARTESIAN PRESSURE IN OBSERVATION WELLS IN THE UNITED STATES IN 1947

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 groundwater supplies in 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-eastern 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 |
| 1947 | 1096 | 1097 | 1098 | 1099 | 1100 | 1101 |

Scope of present volume

The present volume covers the southeastern States and gives records of water level and artesian pressure in about 1,071 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, 132 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 1947. 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 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 9,812 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

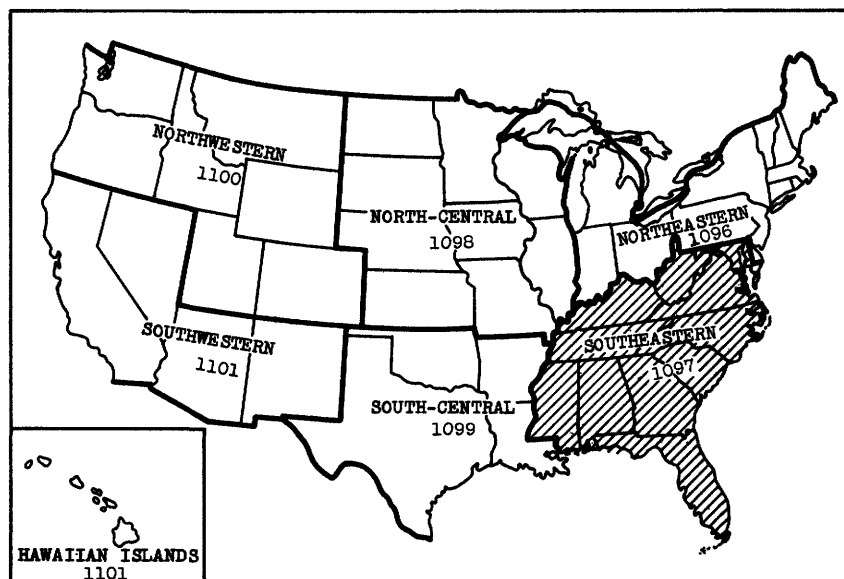


Figure 1.--Outline map of the United States showing sections of the country covered by the six water-supply papers on water levels and artesian pressure in observation wells in 1947. The shaded section represents the part of the country covered by this volume.

listed in this report are given in reference to land-surface datum planes. 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 1947 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 1947 in the southeastern part
of the United States

In 1947 the precipitation was above normal in Florida, Georgia, Mississippi, North Carolina, and South Carolina. It was below normal in the other five States in the southeastern section of the country. 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 1947 as a part of the ground-water investigations 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, and were continued through 1947. 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 has been published as Bulletin 58 of the Alabama Geological Survey.

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 completed September 30, 1947, the field work for which was completed in 1946 and the report begun in 1947.

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, and 1072). From time to time during the period 1940-47 observations on some of these wells were discontinued because it was decided that they were not giving adequate

^{1/} Carlston, Charles W., Fluoride in the ground water of the Cretaceous area of Alabama: Alabama Geol. Survey Bull. 52, 1942. Carlston, Charles W., Ground-water resources of the Cretaceous area of Alabama: Alabama Geol. Survey Spec. Report 18, 1944.

information. Of these observation wells monthly measurements have been made at Eutaw well 6 and a continuous water-stage recorder maintained at Clanton well 10 since their installation in 1941. A third well at Scottsboro (J-28) 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, and a continuous record has been maintained at the well since its installation. The Selma 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 of pumpage, by wells, in the field, and a record of precipitation are also being maintained.

On August 30, 1946, a Stevens water-stage recorder was reinstalled on Montgomery City well 15A and a continuous record maintained to the present time. 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 pumped at the rate of approximately 6,000,000 gallons of water a day.

Measurements were continued on a well 10½ miles southwest of Tuscaloosa, in Tuscaloosa County, on U. S. Highway 11, which reflects shallow water-table conditions. Also monthly measurements were continued during 1947 on a deep artesian flowing well at Boligee, in 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 surface water branch 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 in Alabama during 1947 reached a total of 322.

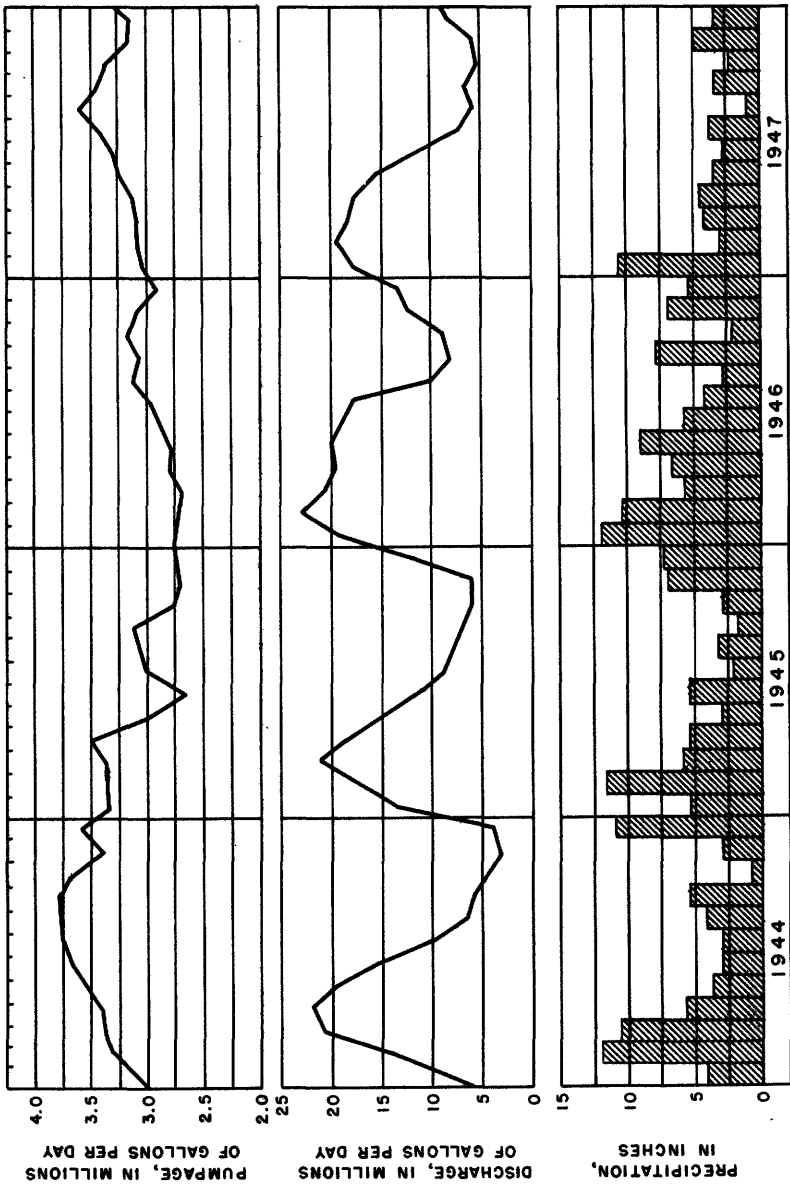


Figure 2.--Graph showing pumpage and discharge of Huntsville Spring, Ala., as correlated with precipitation.

FLUCTUATIONS OF WATER LEVEL

Huntsville Spring, Madison County, well J-28, 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 24.10 inches, which was 3.49 inches above normal for this period. This above-average rainfall was a result of abnormally heavy rains during January, March, April, May, and June, while February rainfall was 2.84 inches below normal. During the period July through December 1947 accumulative rainfall was 4.88 inches below normal. The total rainfall for 1947 was 1.02 inches below normal.

Measurements were continued with the aid of a weekly water-stage recorder on Big Spring in the city of Huntsville. In addition, measurements were made and data collected on the pumpage, discharge of the spring, and rainfall. This program was continued through 1947 and indicated that the average annual precipitation for Huntsville for 1947 was 37.62 inches, or approximately 14.00 inches below normal. January and November were the only months with above-average rainfall. On the average the water level was much lower during 1947 than in 1946 when the rainfall was 11.27 inches above normal. However, at no time during 1947 did the discharge of the spring fail to supply the city's demand of slightly over 4 million gallons a day. (See fig. 2.)

Well J-28, at Scottsboro, in Jackson County, recorded its highest water level of 1.55 feet below land-surface datum on February 10. From January through April the water level fluctuated slightly, followed by a slow decline to August 24 when a sharp decline was noted which continued and, due to unusually warm weather and considerably below-normal rainfall during the month of October, the well was dry from October 5 to November 10, and no measurements could be taken. From November 10 to December 29 when the last measurement for the year was taken, the water level rose to 4.12 feet below land-surface datum. (See fig. 3.)

Measurements on well T-15, in Tuscaloosa County, 10½ miles southwest of Tuscaloosa, were begun on May 12, 1946, and were continued in 1947. During 1947 the highest recorded water level was 27.82 feet below land-surface datum on May 11. The lowest reading was 30.43 feet below land-surface

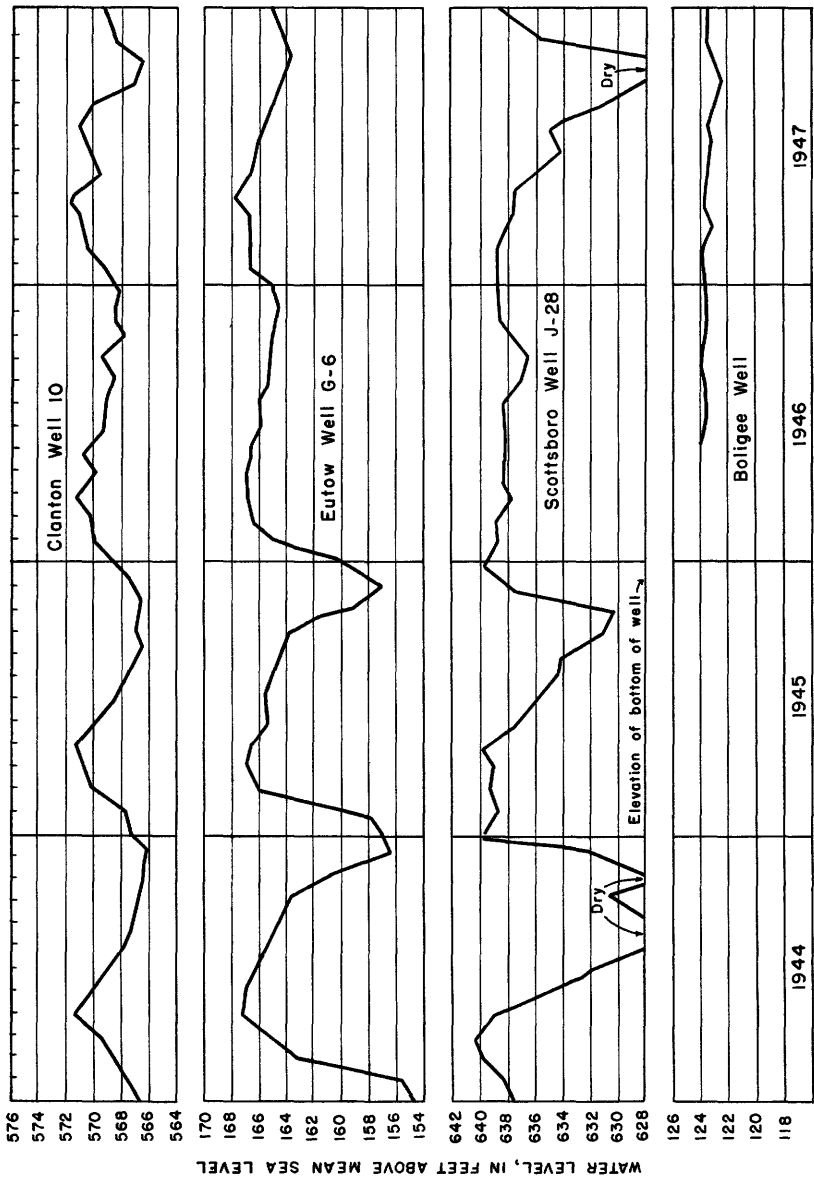


Figure 3.--Graphs showing fluctuations of water level in 4 wells in Alabama.

datum when the last measurement for the year was taken on December 28. The water level experienced a gentle rise from January through May, following which it showed a tendency to decline the remainder of the year.

The Boligee, Clanton, Butaw, 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 period January, February, March, and April. The accumulative precipitation recorded for this division during the January-April, or spring recharge period, was 26.01 inches, which was 5.67 inches above normal. During the drier summer months of May, June, and July accumulative rainfall was 2.84 inches 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 7.85 inches of precipitation was recorded--2.14 inches below normal. The rainfall in September and November was 4.38 inches above normal, while rainfall for October and December was 1.20 inches below normal.

The well at Boligee, in Greene County, was measured monthly throughout 1947. The highest recorded water level, measured on August 1, was 7.23 feet above land-surface datum. The lowest water level, recorded on October 2, was 5.60 feet above land-surface datum. The water level experienced minor changes during the early months of the year. After the high water-level measurement of 7.23 feet above land-surface datum on August 1 there was a decline during the month of September, followed by a gentle rise, and on December 30, when the final measurement was taken, the water level had risen to 6.40 feet above land-surface datum.

At Clanton, in Chilton County, well 10 recorded its highest water level on May 3 when the measurement was 16.35 feet below land-surface datum--0.41 foot higher than the highest record for 1946. The water level in this well showed a gentle increase from January through April and then a gentle decline to October 25 when the lowest water level was recorded--21.66 feet below land-surface datum. Following this low reading there was a gentle rise and on December 28, when the final measurement was recorded, the water level had risen to 18.97 feet below land-surface datum. (See fig. 3.)

Measurements on Greene County well 6 were continued throughout 1947. The highest water level for this well was 15.62 feet below land-surface datum on April 23--0.33 foot higher than the highest stage recorded on

March 30 of the preceding year. The low for this well was reached on October 26 when its water level stood at 18.59 feet below land-surface datum--0.40 foot lower than the low reading of the previous year and 7.25 feet higher than the low water level recorded for 1945. (See fig. 3.)

The highest water level in well 15, in Montgomery, for 1947 was recorded on January 24 when the water level stood at 110.59 feet below land-surface datum. The water level in this well rose during January followed by a decline in February. Slight fluctuations during March and April were followed by a slight rise in May, and a decline to the lowest water level for the year, 124.99 feet below land-surface datum on August 1. There was a sharp rise to 116.99 feet below land-surface datum on August 15, followed by a decline in September, and a rise to 116.49 feet below land-surface datum on December 26 when the last measurement for the year was made.

The records for the well at Selma show that the highest water level was attained on January 17 when a reading of 15.33 feet below land-surface datum was recorded. This was 1.84 feet lower than the highest water level recorded for 1946. On August 23 the lowest water level of the year, 26.43 feet below land-surface datum, was recorded. The water level remained fairly low for the remainder of the year, rising to only 20.68 feet below land-surface datum on November 15, when the last measurement was taken.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Chilton County

10 (#937, p. 7; 945, p. 9; 987, p. 8; 1017, p. 8; 1024, p. 9 ; 1072, p. 13). 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, 1947
(From recorder charts)

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|--------|-------------|
| Jan. 4 | 19.3 | Apr. 5 | 17.14 | July 5 | 17.84 | Oct. 4 | 21.13 |
| 11 | 19.37 | 12 | 17.04 | 12 | 17.47 | 11 | 21.23 |
| 18 | 18.65 | 19 | 16.49 | 19 | 16.93 | 18 | 21.46 |
| 25 | 19.15 | 26 | 16.86 | 26 | 17.34 | 25 | 21.66 |
| Feb. 1 | 18.73 | May 3 | 16.35 | Aug. 2 | 17.00 | Nov. 2 | 21.46 |
| 10 | 17.90 | 10 | 17.19 | 9 | 17.26 | 9 | 20.95 |
| 15 | 17.67 | 17 | 17.60 | 16 | 17.51 | 16 | 20.09 |
| 22 | 17.40 | 24 | 17.84 | 23 | 17.46 | 23 | 19.30 |
| Mar. 1 | 17.36 | 31 | 18.39 | 30 | 17.96 | 30 | 19.58 |
| 7 | 17.19 | June 7 | 18.10 | Sept. 6 | 18.23 | Dec. 9 | 19.59 |
| 15 | 16.91 | 14 | 18.65 | 13 | 18.51 | 15 | 19.22 |
| 22 | 17.17 | 21 | 18.10 | 20 | 18.80 | 21 | 18.80 |
| 29 | 17.29 | 28 | 18.15 | 27 | 21.10 | 28 | 18.97 |

Dallas County

City of Selma (*1024, p. 9 ; 1072, p. 14). At Selma Waterworks plant.

Water level, in feet below land-surface datum, 1947
(From recorder charts)

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 3 | 16.35 | Mar. 29 | 18.33 | June 21 | 24.31 | Sept. 6 | 17.73 |
| 10 | 19.06 | Apr. 5 | 17.83 | 28 | 23.13 | 13 | 27.28 |
| 17 | 15.33 | 12 | 17.77 | July 5 | 21.80 | 20 | 26.25 |
| 25 | 16.78 | 19 | 17.55 | 12 | 24.68 | 27 | 27.10 |
| Feb. 1 | 16.53 | 26 | 17.78 | 19 | 20.48 | Oct. 4 | 28.55 |
| 8 | 17.97 | May 3 | 17.78 | 26 | 23.88 | 11 | 25.00 |
| 15 | 18.55 | 10 | 19.00 | Aug. 2 | 24.86 | 18 | 25.95 |
| 22 | 17.71 | 17 | 19.93 | 9 | 25.83 | 25 | 27.33 |
| Mar. 1 | 17.43 | 24 | 20.56 | 16 | 25.13 | Nov. 1 | 25.51 |
| 8 | 17.28 | 31 | 20.06 | 23 | 26.43 | 8 | 24.40 |
| 15 | 16.28 | June 7 | 23.29 | 30 | 25.93 | 15 | 22.75 |
| 22 | 17.63 | 14 | 24.73 | | | | |

Greene County

13 (*907, p. 6; 937, p. 8; 1072, p. 14). In Boligee. At old mill house, 200 feet northwest of Alabama Great Southern Railroad Co. station.

Water level, in feet above land-surface datum, 1947

| | | | | | | | |
|------|------|------|------|-------|------|------|------|
| Jan. | 6.42 | Apr. | 6.66 | July | 7.23 | Oct. | 5.91 |
| Feb. | 6.48 | May | 6.52 | Aug. | 6.03 | Nov. | 6.26 |
| Mar. | 6.30 | June | 6.11 | Sept. | 5.60 | Dec. | 6.40 |

6 (*937, p. 8; 945, p. 9; 987, p. 9; 1017, p. 8; 1024, p. 10 ; 1072, p. 14). R. Neillon and E. Ward. NW $\frac{1}{4}$ 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 below land-surface datum, 1947

| | | | | | | | |
|------|-------|------|-------|-------|-------|------|-------|
| Jan. | 16.00 | Apr. | 15.62 | July | 16.95 | Oct. | 18.59 |
| Feb. | 16.15 | May | 16.05 | Aug. | 17.54 | Nov. | 18.39 |
| Mar. | 15.90 | June | 16.44 | Sept. | 18.05 | Dec. | 17.73 |

Jackson County

J28 (*987, p. 9; 1017, p. 9; 1024, p. 10 ; 1072, p. 15). Tennessee Valley Authority well TVA 28. NW $\frac{1}{4}$ 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, 1947

| | | | | | | | |
|--------|------|--------|------|---------|-------|--------|-------|
| Jan. 6 | 3.09 | Apr. 7 | 3.65 | July 7 | 6.51 | Oct. 5 | (a) |
| 12 | 3.02 | 15 | 3.65 | 13 | 5.70 | 12 | (a) |
| 19 | 1.55 | 22 | 3.63 | 20 | 6.51 | 20 | (a) |
| 26 | 3.04 | 28 | 3.75 | 28 | 6.70 | 26 | (a) |
| Feb. 2 | 3.15 | May 4 | 3.80 | Aug. 3 | 7.31 | Nov. 3 | (a) |
| 9 | 3.44 | 13 | 4.31 | 10 | 7.50 | 10 | 11.13 |
| 16 | 3.64 | 18 | 4.81 | 17 | 7.50 | 16 | 7.12 |
| 23 | 3.04 | 26 | 4.70 | 24 | 10.30 | 23 | 5.82 |
| Mar. 2 | 3.05 | June 3 | 5.58 | Sept. 1 | 10.85 | Dec. 8 | 6.14 |
| 9 | 2.60 | 8 | 6.44 | 8 | 10.30 | 17 | 4.30 |
| 16 | 2.84 | 15 | 7.64 | 14 | 12.17 | 22 | 3.97 |
| 23 | 3.49 | 22 | 7.63 | 21 | 12.55 | 29 | 4.12 |
| 31 | 3.58 | 29 | 5.64 | 28 | 13.17 | | |

a Dry.

Montgomery County

15 (#907, p. 6; 937, p. 8; 1072, p. 15). City of Montgomery well 15a. Corner of Court and Chambers Streets, Montgomery.

Water level, in feet below land-surface datum, 1947
(From recorder charts)

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|--------|-------------|
| Jan. 3 | 113.09 | Apr. 4 | 116.79 | July 4 | 121.49 | Oct. 3 | 120.09 |
| 10 | 111.89 | 11 | 116.89 | 11 | 118.69 | 10 | 119.49 |
| 17 | 111.59 | 19 | 115.79 | 18 | 119.79 | 17 | 118.29 |
| 24 | 110.59 | 25 | 116.79 | 25 | 118.89 | 24 | 119.19 |
| 31 | 113.99 | May 2 | 116.69 | Aug. 1 | 124.99 | 31 | 119.19 |
| Feb. 7 | 116.39 | 9 | 117.09 | 8 | 120.79 | Nov. 7 | 118.79 |
| 14 | 117.09 | 17 | 114.19 | 15 | 116.99 | 14 | 118.54 |
| 21 | 117.19 | 23 | 112.09 | 22 | 118.04 | 21 | 118.59 |
| 28 | 117.09 | 30 | 114.29 | 29 | 118.59 | 28 | 118.39 |
| Mar. 7 | 116.69 | June 6 | 115.99 | Sept. 5 | 120.19 | Dec. 5 | 117.14 |
| 14 | 116.39 | 14 | 119.09 | 12 | 119.39 | 12 | 116.04 |
| 21 | 116.79 | 20 | 117.89 | 19 | 122.69 | 19 | 115.99 |
| 28 | 117.19 | 27 | 118.19 | 26 | 120.19 | 26 | 116.49 |

Tuscaloosa County

T15 (#1072, p. 15). J. R. Thoenen. At side of house, 10.5 miles southwest of Tuscaloosa on U. S. Highway 11. Water in well under water-table conditions, developed in sands of Tuscaloosa formation.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|--------|-------|--------|-------|---------|-------|--------|-------|
| Jan. 4 | 29.96 | Apr. 6 | 28.18 | July 6 | 28.41 | Oct. 5 | 29.43 |
| 11 | 30.13 | 13 | 28.03 | 13 | 28.23 | 12 | 29.53 |
| 12 | 30.07 | 20 | 28.02 | 20 | 28.23 | 19 | 29.77 |
| 19 | 29.87 | 27 | 27.99 | 27 | 28.43 | 26 | 29.88 |
| 26 | 29.37 | May 4 | 27.86 | Aug. 3 | 28.52 | Nov. 2 | 29.88 |
| Feb. 2 | 28.67 | 11 | 27.82 | 10 | 28.53 | 16 | 30.01 |
| 9 | 28.31 | 18 | 27.90 | 17 | 28.67 | 23 | 30.11 |
| 16 | 28.27 | June 1 | 28.14 | 24 | 28.73 | 30 | 30.28 |
| 23 | 27.98 | 15 | 28.36 | 31 | 28.86 | Dec. 7 | 30.26 |
| Mar. 8 | 28.12 | 22 | 28.53 | Sept. 9 | 29.01 | 21 | 30.42 |
| 9 | 28.34 | 30 | 28.56 | 28 | 29.32 | 28 | 30.43 |
| 31 | 28.23 | | | | | | |

FLORIDA

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

PROGRAM OF WORK

The observation-well program in Florida was continued in 1947 in cooperation with the Florida Geological Survey and with several counties and cities of the State as part of a cooperative investigation of the ground-water resources of Florida, which was begun in some parts of the State as early as 1930. An intensive investigation in southern Florida, begun in 1939, is being made in cooperation with Dade County, and the cities of Miami, Miami Beach, and Coral Gables. Other counties and cities cooperating in ground-water investigations in 1947 include Pinellas County, and the cities of Fort Lauderdale, Dania, Delray Beach, and Pensacola.

At the end of 1947 the program included 380 wells, 51 of which were equipped with automatic water-stage recorders. More than 3,200 individual measurements of water level were made during the year as a part of the program. In addition, several thousand measurements were made in wells that are not included in the program. In Dade and Broward Counties alone, water levels were measured in more than 100 wells that are not included in the program of observation. Fourteen wells in St. Lucie County that were included in 1946 have been dropped from the program. 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, 1947

| County | Number of wells at end of year | Number of tape and pressure gage measure- ments | Number of wells with water-stage recorders |
|----------|-----------------------------------|--|--|
| Bay | 4 | 13 | 1 |
| Brevard | 5 | 10 | 0 |
| Broward | 8 | 61 | 2 |
| Clay | 7 | 54 | 0 |
| Dade | 260 | 1,948 | 19 |
| Duval | 16 | 144 | 0 |
| Escambia | 6 | 314 | 4 |
| Flagler | 1 | 2 | 0 |
| Gadsden | 1 | 4 | 0 |
| 14 | | | |

Distribution, by counties, of observation wells in
Florida, 1947--Continued

| County | Number of wells at end of year | Number of tape and pressure gage measure- ments | Number of wells with water-stage recorders |
|--------------|-----------------------------------|--|--|
| Gulf | 1 | 4 | 1 |
| Hendry | 2 | 10 | 0 |
| Hillsborough | 1 | 11 | 1 |
| Holmes | 2 | 10 | 1 |
| Jackson | 2 | 8 | 0 |
| Lee | 2 | 36 | 2 |
| Leon | 4 | 62 | 1 |
| Manatee | 1 | 14 | 1 |
| Marion | 1 | 52 | 1 |
| Nassau | 13 | 118 | 1 |
| Okaloosa | 10 | 22 | 1 |
| Orange | 1 | 10 | 1 |
| Palm Beach | 2 | 70 | 1 |
| Pinellas | 7 | 57 | 7 |
| Polk | 1 | 5 | 1 |
| St. Johns | 6 | 76 | 1 |
| Santa Rosa | 2 | 3 | 0 |
| Sarasota | 2 | 56 | 2 |
| Taylor | 2 | 11 | 2 |
| Volusia | 1 | 2 | 0 |
| Wakulla | 2 | 8 | 0 |
| Walton | 5 | 14 | 0 |
| Washington | 2 | 7 | 0 |
| Totals | 380 | 3,206 | 51 |

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 includes relatively impervious beds which confine the water under artesian pressure. The water is under sufficient pressure to use above the land surface over roughly half 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.

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.

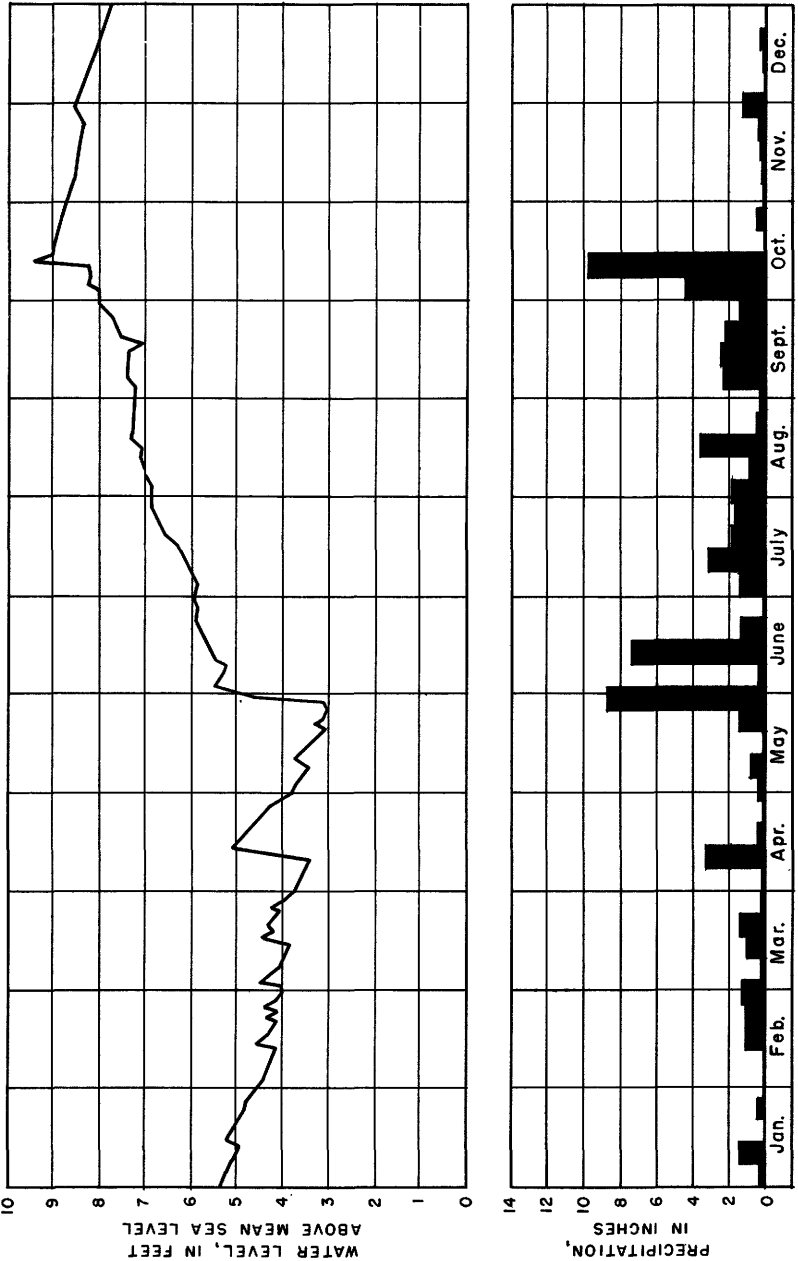


Figure 4.--Graphs showing fluctuations of water level in Dade County well G 72 and precipitation at the United States Geological Survey Station, Pensuoco, Florida.

FLUCTUATIONS OF WATER LEVEL AND ARTESIAN PRESSURE

Over the northern part of the State water levels and pressures were higher in 1947 than they were in 1946 in all but a few of the observation wells. Only in Nassau County were they generally as low as or lower than they were in the previous year. The rise in water levels and pressures was due chiefly to greater rainfall in 1947 than in 1946. At all the precipitation stations for which departures from normal were reported by the U. S. Weather Bureau, the rainfall in 1947 was greater than normal, and at only five of the stations was it less than the rainfall in 1946.

The slight decline of artesian pressures in the vicinity of Fernandina, in Nassau County, was due to changes in the rate of pumping by Rayonier, Inc. The artesian pressures in northeastern Florida are not influenced appreciably by local rainfall, but respond slowly and slightly to changes in rainfall at the areas of recharge of the artesian aquifer. The pressures have been lowered extensively at Fernandina by heavy withdrawal, but it is expected that any further decline will occur only as a result of increases in the withdrawal.

The water level in Escambia County well 45 has been lowered by the pumpage of the Florida Pulp and Paper Company. During the period July 1941 through 1945 the water level declined progressively to about 19 feet below its original level. In 1946 the water level rose about 3 feet, probably because of the abnormally heavy rainfall that occurred during the year. In 1947, however, the water level declined slightly, although the rainfall at the Pensacola station was 90.32 inches, 11.33 inches more than in 1946 and 30.20 inches above normal. Elsewhere in Escambia County the water levels were higher in 1947 than in 1946 as a result of the heavy rainfall. In well 60, on Bayou Chico, where salt-water encroachment has occurred, the water level was higher than it has been since August 1945, but remained below sea level.

The observation-well program in Pinellas County was begun in 1946 as a part of an investigation of the encroachment of sea water into the limestone aquifer. The water-level records will indicate those areas of the county that are relatively safe from encroachment under the present pumping conditions. The records for Pinellas County are not as yet long enough to permit an adequate interpretation of annual and seasonal changes in water levels.

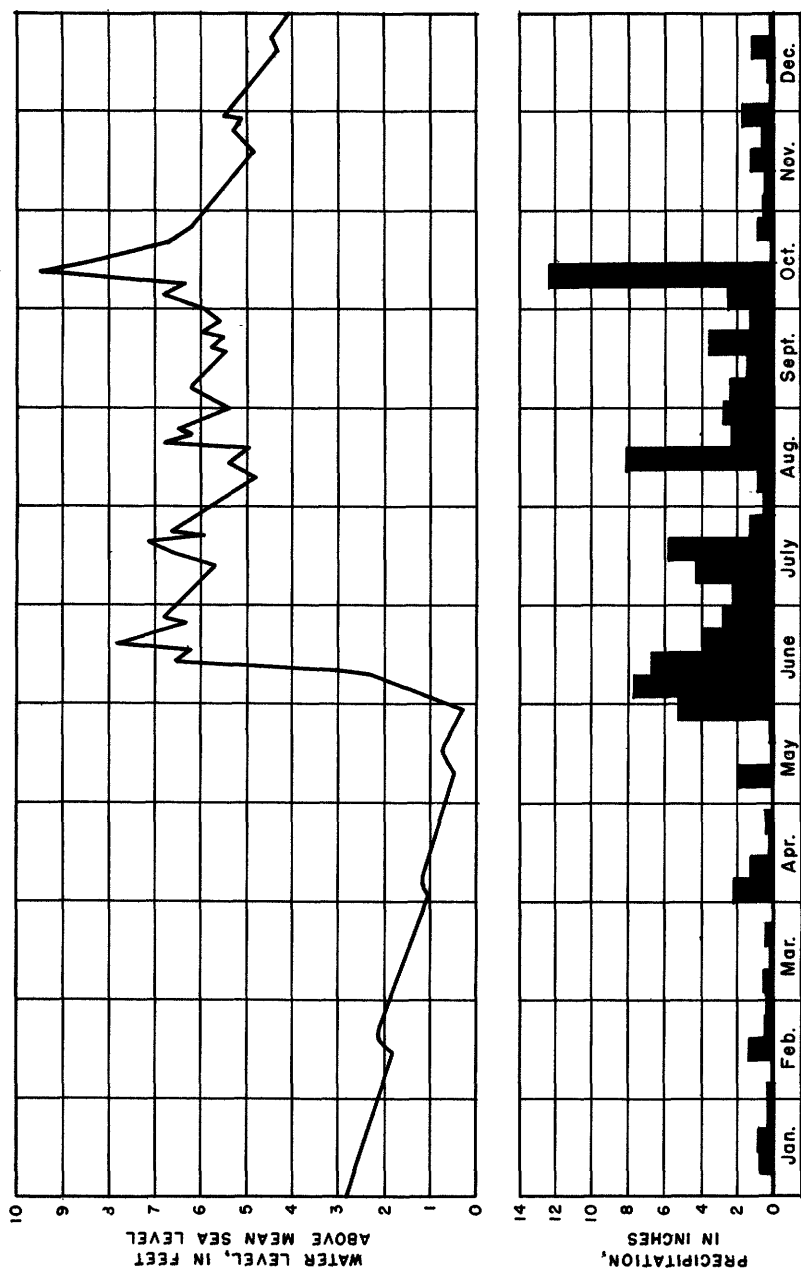


Figure 5.--Graphs showing fluctuations of water level in Dade County well S196 and precipitation at the University of Florida Subtropical Experiment Station, Homestead, Florida.

In southern Florida, the year 1947 was the wettest on record, and, as a result, the water levels were the highest that have been recorded. The rainfall was above normal from February through November. In mid-September a hurricane crossed Florida from Fort Lauderdale to Naples. In October another hurricane passed over the extreme southern portion of the State. The heavy rains that accompanied these two hurricanes, following as they did the above-normal rainfall which had occurred during the preceding months, caused high floods over large areas of southern Florida.

When water levels reached their peak after the October hurricane, Miami Springs, Hialeah, parts of Miami and Fort Lauderdale, and many other towns and villages were inundated. Water levels dropped slowly during November and December but were still above normal at the end of the year.

At Dania, Broward County, 13.02 inches of rain was recorded in a 24-hour period during October 11 and 12. Precipitation at other stations on October 12 was as follows: Fort Lauderdale, 10.85 inches; Hialeah, 10.41 inches; Pennsuko, 9.57 inches; Homestead, 5.37 inches; and Miami (October 11), 4.96 inches.

The total rainfall at Miami in 1947 was 69.17 inches, 30.13 inches more than in the previous year. Increases in annual rainfall, from 1946 to 1947 at other Dade County stations were as follows: Coconut Grove, 24.87 inches; Homestead, 29.80 inches; Pennsuko, 28.67 inches; and Kendal, 11.15 inches. Figures 4 and 5 show the close correlation between precipitation and ground-water levels in Dade County.

At Hypoluxo, near Lake Worth in Palm Beach County, the rainfall in 1947 was 104.23 inches, 51.09 inches more than that in the previous year; at Fort Pierce, in St. Lucie County, it was 77.76 inches, 34.17 inches more than in 1946; and at Fort Myers, in Lee County, it was 80.17 inches, 37.72 inches more than in 1946.

Comparative water levels and precipitation for selected wells in
Dade County

| Well No. | 1942 | | 1943 | | 1944 | | 1945 | | 1946 | | 1947 | |
|-------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| | 1/ | 2/ | 1/ | 2/ | 1/ | 2/ | 1/ | 2/ | 1/ | 2/ | 1/ | 2/ |
| G3 | 2.08 | 65.39 | 1.46 | 58.39 | 1.40 | 39.29 | 1.31 | 40.98 | 1.44 | 55.04 | 2.87 | 78.25 |
| G10 | 4.24 | 65.39 | 3.60 | 58.39 | 3.52 | 39.29 | 2.68 | 40.98 | 3.91 | 55.04 | 4.91 | 78.25 |
| G72 | 5.64 | ..... | 4.70 | 49.73 | 4.88 | 56.52 | 4.01 | 40.24 | 5.09 | 42.93 | 6.31 | 71.60 |
| S18 | 2.10 | 48.86 | 1.54 | 62.45 | 1.38 | 40.19 | 1.13 | 42.25 | 1.95 | 54.93 | 2.95 | 73.39 |
| S182 | 4.77 | ..... | 3.69 | 50.89 | 2.92 | 39.56 | 2.71 | 54.77 | 4.48 | 66.99 | 5.41 | 81.92 |
| F179 | 1.90 | 56.80 | 1.70 | 44.82 | 1.58 | 28.66 | 1.58 | 34.54 | 1.93 | 39.04 | 2.53 | 69.17 |
| F210 | 1.50 | 48.86 | 1.37 | 62.45 | 1.18 | 40.19 | 1.07 | 42.25 | 1.40 | 54.93 | 2.30 | 73.39 |

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 (*1072, p. 20). City of Panama City. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 1, T. 3 S., R. 15 W., under a water tank at Clay and 11th Streets, in St. Andrew.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | April | | May | | June | |
|-----|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low |
| 1 | ..... | ..... | 42.33 | 42.34 | 43.45 | 43.52 |
| 2 | ..... | ..... | 42.34 | 42.34 | 43.52 | 43.52 |
| 3 | ..... | ..... | 42.34 | 42.35 | 43.52 | 43.52 |
| 4 | ..... | ..... | 42.36 | 42.43 | 43.52 | 43.52 |
| 5 | ..... | ..... | 42.43 | 42.50 | 43.52 | 43.59 |
| 6 | ..... | ..... | 42.50 | 42.50 | 43.59 | 43.72 |
| 7 | ..... | ..... | 42.50 | 42.57 | 43.72 | 43.72 |
| 8 | ..... | ..... | 42.57 | 42.60 | 43.72 | 43.72 |
| 9 | ..... | ..... | 42.60 | 42.67 | 43.72 | 43.75 |
| 10 | ..... | ..... | 42.67 | 42.78 | 43.75 | 43.74 |
| 11 | ..... | ..... | 42.78 | 42.87 | 43.75 | 43.79 |
| 12 | ..... | ..... | 42.87 | 42.87 | 43.79 | 43.80 |
| 13 | ..... | ..... | 42.87 | 42.87 | 43.80 | 43.81 |
| 14 | ..... | ..... | 42.87 | 42.87 | 43.81 | 43.81 |
| 15 | ..... | ..... | 42.87 | 42.91 | 43.81 | 43.92 |
| 16 | ..... | ..... | 42.91 | 43.01 | 43.82 | 44.02 |
| 17 | ..... | ..... | 43.01 | 43.12 | 44.02 | 44.17 |
| 18 | 41.79 | 41.98 | 43.12 | 43.18 | 44.17 | 44.34 |
| 19 | 41.98 | 41.98 | 43.18 | 43.25 | 44.34 | 44.45 |
| 20 | 41.94 | 41.98 | 43.25 | 43.26 | 44.45 | 44.45 |
| 21 | 41.94 | 41.94 | 43.26 | 43.26 | 44.45 | 44.62 |
| 22 | 41.94 | 41.98 | 43.26 | 43.26 | 44.62 | 44.70 |
| 23 | 41.98 | 42.07 | 43.26 | 43.38 | 44.70 | 44.70 |
| 24 | 42.01 | 42.07 | 43.38 | 43.43 | 44.70 | 44.70 |
| 25 | 42.01 | 42.17 | 43.43 | 43.43 | 44.68 | 44.70 |
| 26 | 42.17 | 42.20 | 43.43 | 43.43 | 44.68 | 44.68 |
| 27 | 42.20 | 42.30 | 43.43 | 43.43 | 44.68 | 44.68 |
| 28 | 42.30 | 42.33 | 43.43 | 43.43 | 44.62 | 44.68 |
| 29 | 42.33 | 42.33 | 43.41 | 43.43 | 44.62 | 44.62 |
| 30 | 42.33 | 42.33 | 43.41 | 43.43 | 44.62 | 44.62 |
| 31 | | | 43.43 | 43.45 | | |

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|
| | High | Low | High | Low | High | Low | High | Low |
| 1 | 44.62 | 44.62 | 45.70 | 45.70 | 45.78 | 45.78 | 44.66 | 44.70 |
| 2 | 44.62 | 44.62 | 45.70 | 45.70 | 45.74 | 45.78 | 44.57 | 44.66 |
| 3 | 44.62 | 44.63 | 45.61 | 45.70 | 45.70 | 45.74 | 44.48 | 44.57 |
| 4 | 44.63 | 44.69 | 45.61 | 45.61 | ..... | ..... | 44.43 | 44.48 |
| 5 | 44.69 | 44.73 | 45.61 | 45.61 | 45.86 | 45.87 | 44.43 | 44.46 |
| 6 | 44.73 | 44.80 | 45.55 | 45.61 | 45.87 | 45.88 | 44.46 | 44.51 |
| 7 | 44.80 | 44.85 | 45.55 | 45.56 | 45.84 | 45.88 | ..... | ..... |
| 8 | 44.85 | 44.97 | 45.55 | 45.55 | 45.63 | 45.84 | 44.51 | 44.54 |
| 9 | 44.97 | 45.05 | 45.54 | 45.54 | 45.51 | 45.61 | 44.54 | 44.60 |
| 10 | 45.05 | 45.17 | 45.53 | 45.54 | 45.51 | 45.53 | 44.60 | 44.66 |
| 11 | 45.17 | 45.49 | 45.52 | 45.54 | 45.52 | 45.55 | 44.66 | 44.70 |
| 12 | 45.49 | 45.69 | 45.53 | 45.60 | 45.55 | 45.57 | 44.70 | 44.82 |
| 13 | 45.69 | 45.83 | 45.60 | 45.60 | 45.57 | 45.58 | 44.82 | 44.92 |
| 14 | 45.83 | 45.93 | 45.60 | 45.70 | 45.57 | 45.58 | 44.92 | 44.93 |
| 15 | 45.93 | 45.93 | 45.70 | 45.72 | 45.57 | 45.58 | 44.89 | 44.93 |
| 16 | 45.93 | 45.93 | 45.70 | 45.73 | 45.58 | 45.59 | 44.89 | 44.90 |
| 17 | 45.93 | 45.93 | 45.73 | 45.77 | 45.58 | 45.59 | 44.88 | 44.89 |
| 18 | 45.93 | 45.93 | 45.76 | 45.77 | 45.58 | 45.63 | ..... | ..... |
| 19 | 45.91 | 45.93 | 45.77 | 45.80 | 45.32 | 45.63 | ..... | ..... |
| 20 | 45.87 | 45.91 | 45.80 | 45.82 | 45.30 | 45.32 | ..... | ..... |
| 21 | 45.87 | 45.87 | 45.82 | 45.83 | 45.13 | 45.30 | ..... | ..... |
| 22 | 45.87 | 45.87 | 45.81 | 45.82 | 45.00 | 45.13 | ..... | ..... |
| 23 | 45.87 | 45.87 | 45.80 | 45.82 | 44.89 | 45.00 | 44.83 | 44.87 |
| 24 | 45.87 | 45.87 | 45.80 | 45.80 | ..... | ..... | 44.80 | 44.83 |
| 25 | 45.87 | 45.87 | 45.80 | 45.80 | ..... | ..... | ..... | ..... |

7--Continued.

High and low daily water level, in feet below
land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|
| | High | Low | High | Low | High | Low | High | Low |
| 26 | 45.87 | 45.87 | 45.80 | 45.80 | ..... | ..... | 44.79 | 44.80 |
| 27 | 45.87 | 45.87 | 45.80 | 45.80 | ..... | ..... | 44.70 | 44.70 |
| 28 | 45.87 | 45.87 | 45.80 | 45.80 | ..... | ..... | 44.63 | 44.70 |
| 29 | 45.64 | 45.87 | 45.80 | 45.80 | 44.80 | 44.89 | 44.61 | 44.63 |
| 30 | 45.64 | 45.70 | 45.80 | 45.80 | 44.70 | 44.80 | ..... | ..... |
| 31 | 45.69 | 45.70 | 45.78 | 45.80 | ..... | ..... | ..... | ..... |

8. Hunt Oil Co. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 28, T. 2 S., R. 14 W., 455 feet south of old railroad depot near Fanning Bayou, Southport. Unused drilled industrial well, diameter 6 inches, depth 435 feet. Measuring point, top of 6-inch casing, 0.25 foot above land-surface datum and 4 feet above mean sea level. Water level, in feet above land-surface datum, 1947: Oct. 30, 1.82.

10 (*1072, p. 20). L. R. Pierson. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, T. 3 S., R. 14 W., at Leisure Lodge, 1.25 miles east of Lynn Haven. Water levels, in feet below land-surface datum, 1947: Apr. 17, 5.98; July 30, 6.78; Sept. 4, 6.97; Oct. 30, 7.19.

11 (*1072, p. 20). Youngstown Naval Stores. In Youngstown, in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 28, T. 1 S., R. 12 W., at old turpentine still, 25 yards west of U. S. Highway 231. Water levels, in feet below land-surface datum, 1947: Apr. 17, 14.75; July 30, 14.85; Sept. 4, 19.95; Oct. 30, 14.90.

Brevard County

19 (*1072, p. 21). R. M. Wall. 9 miles west of Melbourne, in NW $\frac{1}{4}$ NW $\frac{1}{4}$ 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. Water levels, in feet above land-surface datum, 1947: May 12, 27.25; Oct. 17, 27.9.

20 (*1072, p. 21). Mr. Webber. 9.5 miles west of Malabar, in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 4, T. 29 S., R. 36 E., about 10 feet south of State Highway 514. Water levels, in feet above land-surface datum, 1947: May 12, 28.7; Oct. 17, 27.7.

79 (*1072, p. 21). C. W. Carlisle. About 1.6 miles northeast of Scottsmeer, about 12 feet east of shell road, in edge of orange grove. Water levels, in feet above land-surface datum, 1947: May 12, 5.1; Sept. 10, 5.85; Oct. 10, 5.7.

148 (*1072, p. 21). W. P. Warren. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, T. 24 S., R. 36 E., about 60 feet south of State Highway 520, about 100 feet west of residence, in edge of orange grove. Water level, in feet above land-surface datum, 1947: Sept. 16, 13.1.

159 (*1072, p. 21). H. R. Jackobsen. 3 miles north of Orsino, in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18, T. 22 S., R. 37 E., north side of small pit, in orange grove, about 500 feet southeast of owner's residence. Water levels, in feet above land-surface datum, 1947: Apr. 18, 17.2; Oct. 16, 17.2.

Broward County

G221. Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 50 S., R. 42 E. 25 feet east of State Highway 7 and 369 feet north of Fort Lauderdale water plant. Drilled observation well, diameter 6 inches, depth 145.0 feet. Measuring point, top of casing, 1.8 feet above land-surface datum and 17.43 feet above mean sea level, 1929 adjustment. Water-stage recorder installed Nov. 15, 1946. Water level affected by pumpage of nearby wells.

G221--Continued.

High and low weekly water level, in feet below land-surface datum, 1946-47
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|---------------|------------|-----------|---------------|------------|-----------|
| Nov. 25, 1946 | 11.76 | 12.21 | June 17, 1947 | 9.62 | 11.54 |
| Dec. 2 | 11.94 | 12.46 | 24 | 9.14 | 9.62 |
| 9 | 12.17 | 12.58 | July 1 | 9.48 | 9.96 |
| 16 | 11.81 | 12.72 | 8 | 8.97 | 9.88 |
| 23 | 11.76 | 12.21 | 15 | 8.01 | 9.20 |
| 30 | 11.96 | 12.52 | 22 | 7.86 | 8.23 |
| Jan. 7, 1947 | 12.28 | 12.95 | 29 | 8.16 | 8.67 |
| 14 | 12.57 | 13.08 | Aug. 5 | 8.67 | 9.71 |
| 21 | 12.68 | 13.19 | 12 | 8.54 | 9.75 |
| 28 | 12.76 | 13.27 | 19 | 9.21 | 9.91 |
| Feb. 4 | 12.89 | 13.47 | 26 | 9.34 | 10.08 |
| 11 | 13.05 | 13.56 | Sept. 2 | 8.83 | 10.15 |
| 18 | 13.14 | 13.65 | 9 | 8.72 | 9.27 |
| 25 | 13.24 | 13.72 | 16 | 9.08 | 10.06 |
| Mar. 4 | 13.32 | 13.84 | 23 | 8.54 | 10.02 |
| 11 | 13.32 | 13.85 | 30 | 7.87 | 9.19 |
| 18 | 13.37 | 13.89 | Oct. 7 | 6.99 | 8.25 |
| 25 | 13.38 | 13.83 | 14 | 4.70 | 7.38 |
| Apr. 1 | 13.42 | 13.88 | 21 | 5.07 | 6.12 |
| 8 | 13.48 | 13.87 | 28 | 5.60 | 6.30 |
| 15 | 13.12 | 14.07 | Nov. 4 | 6.03 | 6.75 |
| 22 | 12.92 | 13.48 | 11 | 6.61 | 7.32 |
| 29 | 12.92 | 13.75 | 18 | 7.11 | 8.13 |
| May 6 | 13.50 | 14.00 | 25 | 7.87 | 8.82 |
| 13 | 13.58 | 14.08 | Dec. 2 | 7.81 | 8.88 |
| 20 | 13.60 | 14.24 | 9 | 8.12 | 9.26 |
| 27 | 13.85 | 14.37 | 16 | 9.07 | 9.82 |
| June 3 | 12.36 | 14.38 | 23 | 9.36 | 10.19 |
| 10 | 11.54 | 12.36 | 30 | 9.82 | 10.61 |

G512. Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T. 50 S., R. 41 E. 158 feet west of State Highway 7 and 10 feet north of North New River Canal. Jetted observation well, diameter 2 inches, depth 174.7 feet. Measuring point, top of casing, 0.78 foot above land-surface datum and 12.24 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 20 | 10.23 | Mar. 8 | 10.22 | May 23 | 10.66 | Oct. 3 | 6.32 |
| Feb. 15 | 10.27 | 22 | 10.19 | June 13 | 8.79 | 5 | 4.67 |
| 22 | 10.32 | Apr. 12 | 10.54 | July 18 | 7.59 | Nov. 14 | 5.81 |
| Mar. 1 | 10.57 | May 2 | 10.71 | Aug. 26 | 8.18 | | |

G513. Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T. 50 S., R. 41 E., 1.1 mile west of State Highway 7 and 60 feet north of North New River Canal. Jetted observation well, diameter 2 inches, depth 224 feet. Measuring point, top of casing, 0.60 foot above land-surface datum and 7.34 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Jan. 20 | 4.14 | Mar. 1 | 4.45 | Apr. 12 | 5.56 | June 13 | 3.49 |
| Feb. 15 | 4.37 | 8 | 4.47 | May 2 | 5.59 | July 18 | 2.15 |
| 22 | 4.39 | 22 | 4.96 | 23 | 5.69 | Aug. 26 | 2.54 |

G514. Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, T. 50 S., R. 42 E., intersection of S.W. 9th Street and S.W. 12th Avenue, Fort Lauderdale. Jetted observation well, diameter 2 inches, depth 177.4 feet. Measuring point, top of casing, at land-surface datum and 4.87 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Jan. 20 | 4.83 | Mar. 8 | 4.28 | May 23 | 4.08 | Aug. 26 | 2.82 |
| Feb. 15 | 4.61 | 22 | 4.42 | June 13 | 2.60 | Oct. 3 | 1.16 |
| 22 | 4.10 | May 2 | 4.29 | July 18 | 2.09 | Nov. 14 | 1.16 |
| Mar. 1 | 4.35 | | | | | | |

G515. Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 50 S., R. 41 E., 0.6 mile west of State Highway 7 and 200 feet southeast of Fort Lauderdale supply well 6. Jetted observation well, diameter 2 inches, depth 211 feet. Measuring point, top of casing, 0.5 foot above land-surface datum and 9.42 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Feb. 15 | 6.19 | Mar. 8 | 6.34 | May 23 | 6.70 | Aug. 26 | 2.41 |
| 22 | 6.34 | 22 | 5.99 | June 13 | 3.39 | Oct. 3 | .98 |
| Mar. 1 | 6.41 | May 2 | 6.45 | July 18 | 1.47 | Nov. 12 | .51 |

G516. Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 8, T. 50 S., R. 42 E., 1.1 mile east of State Highway 7 and 100 feet south of Broward Boulevard, Fort Lauderdale. Jetted observation well, diameter 2 inches, depth 200.5 feet. Measuring point, top of casing, 0.5 foot above land-surface datum and 7.85 feet above mean sea level, 1929 adjustment.

Water level, in feet above land-surface datum, 1947

| | | | | | | | |
|-------|------|---------|-------|---------|------|---------|--------|
| May 2 | 4.68 | June 13 | 2.40 | Aug. 26 | 1.70 | Nov. 12 | a 0.14 |
| 23 | 5.34 | July 18 | a .01 | Oct. 3 | .04 | | |

a Above land-surface datum.

S329 (#907, p. 34; 937, p. 27; 945, p. 20; #987, p. 17; 1017, p. 11; 1024, p. 16; 1072, p. 21). Fort Lauderdale. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 12, T. 50 S., R. 41 E.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 7 | 5.40 | 5.70 | Aug. 5 | .... | 2.96 |
| 28 | 5.90 | 6.14 | 12 | 1.01 | 2.57 |
| Feb. 4 | 5.97 | 6.34 | 19 | 1.61 | 2.62 |
| 11 | 6.22 | 6.53 | 26 | 1.82 | 2.69 |
| 18 | 6.15 | 6.53 | Sept. 2 | 1.53 | 2.75 |
| 25 | 6.27 | 6.60 | 9 | 1.70 | 2.64 |
| Mar. 4 | 6.29 | 6.68 | 16 | 2.19 | 3.04 |
| 11 | 6.25 | 6.66 | 23 | .94 | 2.84 |
| 18 | 6.26 | 6.66 | Oct. 7 | .... | 1.55 |
| 25 | 6.01 | 6.26 | 14 | a 1.86 | .86 |
| Apr. 1 | 6.12 | 6.76 | 21 | a 1.54 | ... |
| 8 | 6.36 | 6.80 | 28 | a | a .26 |
| 15 | 5.72 | 6.87 | Nov. 4 | a .26 | .41 |
| 22 | 5.66 | 6.13 | 11 | .38 | 1.05 |
| May 6 | .... | 6.59 | 18 | .73 | 1.44 |
| 13 | 6.51 | 6.68 | 25 | 1.43 | 2.37 |
| 20 | 6.59 | 6.82 | Dec. 2 | .75 | 2.43 |
| 27 | 6.76 | 7.14 | 9 | .... | 2.77 |
| July 1 | 2.23 | 3.14 | 16 | 2.52 | 3.22 |
| 8 | 1.14 | 3.14 | 23 | 2.44 | 3.06 |
| 15 | .72 | 2.38 | 30 | 2.96 | 3.43 |
| 22 | .79 | 2.01 | | | |

a Above land-surface datum.

S330 (#1017, p. 12; 1024, p. 17; 1072, p. 21). Florida Power & Light Co. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 30, T. 50 S., R. 42 E. Water level, in feet with reference to land-surface datum, 1947: Jan. 20, -2.79; Oct. 13, +4.12.

Clay County

1 (#907, p. 13; 937, p. 12; 945, p. 12; 987, p. 17; 1017, p. 12; 1024, p. 17; 1072, p. 22). Girl Scouts of America. At Camp Chowenaw, about 1,000 feet south of SE. corner sec. 20, T. 5 S., R. 26 E.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Jan. 22 | 40.9 | Apr. 10 | 41.3 | July 15 | 41.3 | Sept. 12 | 42.2 |
| Mar. 13 | 41.6 | June 5 | 43.4 | Aug. 14 | 40.9 | Oct. 7 | 41.4 |

2 (*907, p. 13; 937, p. 12; 945, p. 12; 987, p. 17; 1017, p. 12; 1024, p. 17; 1072, p. 22). Mrs. M. A. Chaulker. At Middleburg, in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 13, T. 5 S., R. 24 E., at residence of owner.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 43.2 | June 5 | 46.3 | Aug. 14 | 43.0 | Oct. 7 | 44.2 |
| Mar. 13 | 43.2 | July 15 | 47.2 | Sept. 12 | 43.5 | Nov. 19 | 46.0 |
| Apr. 10 | 45.8 | | | | | | |

4 (*907, p. 14; 937, p. 12; 945, p. 12; 987, p. 17; 1017, p. 12; 1024, p. 17; 1072, p. 22). T. J. Jennings. Near north line of SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 32, T. 4 S., R. 25 E., 3.2 miles northeast of Middleburg.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 37.1 | June 5 | 41.3 | Aug. 14 | 37.7 | Oct. 7 | 38.8 |
| Mar. 13 | 38.1 | July 15 | 42.3 | Sept. 12 | 38.5 | Nov. 20 | 40.7 |
| Apr. 10 | 39.5 | | | | | | |

5 (*907, p. 14; 937, p. 12; 945, p. 12; 987, p. 17; 1017, p. 12; 1024, p. 17; 1072, p. 22). John Huntley. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T. 4 S., R. 25 E., about 500 feet northwest of State Highway 68, in rear of owner's residence, 4.2 miles northeast of Middleburg.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 34.3 | June 5 | 35.5 | Aug. 14 | 31.6 | Oct. 7 | 33.5 |
| Mar. 13 | 33.5 | July 15 | 36.5 | Sept. 12 | 32.2 | Nov. 19 | 35.0 |
| Apr. 10 | 34.5 | | | | | | |

8 (*907, p. 14; 937, p. 13; 945, p. 13; 987, p. 18; 1017, p. 12; 1024, p. 17; 1072, p. 22). St. Elmo Hotel. In Green Cove Springs.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 18.9 | June 5 | 21.8 | Aug. 14 | 18.2 | Oct. 7 | 18.7 |
| Mar. 13 | 18.0 | July 15 | 22.5 | Sept. 12 | 18.0 | Nov. 19 | 19.3 |
| Apr. 10 | 20.0 | | | | | | |

22 (*1072, p. 22). U. S. Navy. At auxiliary air base, about 2.5 miles southeast of Green Cove Springs, on south side of pump house.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 19.6 | June 5 | 22.5 | Aug. 14 | 17.0 | Oct. 7 | 19.3 |
| Mar. 13 | 20.5 | July 15 | 20.5 | Sept. 12 | 17.3 | Nov. 19 | 21.8 |
| Apr. 10 | 21.5 | | | | | | |

Dade County

D151 (*886, p. 66; *907, p. 28; 937, p. 23; 945, p. 29; *987, p. 18; 1017, p. 13; 1024, p. 17; 1072, p. 22). Peoples Water & Gas Co. Center of sec. 16, T. 52 S., R. 42 E. No measurements made in 1947.

F1 (*1017, p. 13; 1024, p. 17; 1072, p. 22). City of Miami Springs. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 6.20 | Apr. 29 | 6.09 | July 30 | 4.05 | Oct. 30 | 0.63 |
| Feb. 26 | 5.67 | May 29 | 5.75 | Aug. 29 | 4.35 | Nov. 28 | 2.28 |
| Mar. 31 | 5.91 | June 30 | 4.34 | Sept. 30 | 2.59 | Dec. 31 | 3.93 |

F2 (*1017, p. 14; 1024, p. 17; 1072, p. 22). City of Miami Springs. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 6.60 | Apr. 29 | 6.51 | July 30 | 4.57 | Oct. 30 | 1.23 |
| Feb. 26 | 6.07 | May 29 | 6.13 | Aug. 29 | 4.81 | Nov. 28 | 2.83 |
| Mar. 31 | 6.33 | June 30 | 4.85 | Sept. 30 | 3.05 | Dec. 31 | 4.40 |

F3 (*1017, p. 15; 1024, p. 17; 1072, p. 22). City of Miami Springs. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.

F3--Continued.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 4.97 | Apr. 29 | 4.87 | July 30 | 2.96 | Oct. 30 | a 0.40 |
| Feb. 26 | 4.43 | May 29 | 4.48 | Aug. 29 | 3.15 | Nov. 28 | 1.20 |
| Mar. 31 | 4.69 | June 30 | 3.25 | Sept. 30 | 1.43 | Dec. 31 | 2.75 |

a Above land-surface.

F4 (*1017, p. 16; 1024, p. 18; 1072, p. 23). City of Miami Springs.
SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|----------|------|---------|------|
| Jan. 29 | 6.85 | Apr. 29 | 6.82 | July 30 | 4.91 | Oct. 30 | 1.57 |
| Feb. 26 | 6.30 | May 29 | 6.41 | Aug. 29 | 5.12 | Nov. 28 | 3.16 |
| Mar. 31 | 6.62 | June 30 | 5.22 | Sept. 30 | 3.41 | Dec. 31 | 4.67 |

F5 (*1017, p. 17; 1024, p. 18; 1072, p. 23). City of Miami Springs.
NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|----------|------|---------|------|
| Jan. 29 | 5.46 | Apr. 29 | 5.42 | July 30 | 3.72 | Oct. 30 | 0.49 |
| Feb. 26 | 4.96 | May 29 | 5.02 | Aug. 29 | 3.89 | Nov. 28 | 2.04 |
| Mar. 31 | 5.25 | June 30 | 4.00 | Sept. 30 | 2.19 | Dec. 31 | 3.44 |

F6 (*1017, p. 18; 1024, p. 18; 1072, p. 23). City of Miami Springs.
SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|----------|------|---------|------|
| Jan. 29 | 6.39 | Apr. 29 | 6.38 | July 30 | 4.71 | Oct. 30 | 1.51 |
| Feb. 26 | 5.20 | May 29 | 5.94 | Aug. 29 | 4.90 | Nov. 28 | 3.05 |
| Mar. 31 | 6.21 | June 30 | 4.99 | Sept. 30 | 3.21 | Dec. 31 | 4.40 |

F7 (*1017, p. 19; 1024, p. 18; 1072, p. 23). City of Miami Springs.
NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|----------|------|---------|------|
| Jan. 29 | 5.71 | Apr. 29 | 5.70 | July 30 | 4.17 | Oct. 30 | 1.06 |
| Feb. 26 | 5.27 | May 29 | 5.26 | Aug. 29 | 4.32 | Nov. 28 | 2.54 |
| Mar. 31 | 5.55 | June 30 | 4.44 | Sept. 30 | 2.65 | Dec. 31 | 3.85 |

F8 (*1017, p. 20; 1024, p. 18; 1072, p. 23). City of Miami Springs.
SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|----------|------|---------|------|
| Jan. 29 | 5.66 | Apr. 29 | 5.63 | July 30 | 4.22 | Oct. 30 | 1.17 |
| Feb. 26 | 5.26 | May 29 | 5.21 | Aug. 29 | 4.35 | Nov. 28 | 2.62 |
| Mar. 31 | 5.55 | June 30 | 4.48 | Sept. 30 | 2.71 | Dec. 31 | 3.88 |

F9 (*886, p. 65; *907, p. 29; *937, p. 23; *945, p. 30; *987, p. 18; 1017, p. 21; 1024, p. 18; 1072, p. 23). City of Miami Springs. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|----------|------|---------|--------|
| Jan. 29 | 4.50 | Apr. 29 | 4.50 | July 30 | 2.97 | Oct. 30 | a 0.15 |
| Feb. 26 | 4.07 | May 29 | 4.08 | Aug. 29 | 3.12 | Nov. 28 | 1.34 |
| Mar. 31 | 4.38 | June 30 | 3.21 | Sept. 30 | 1.45 | Dec. 31 | 2.64 |

a Above land-surface datum.

F10 (*1017, p. 21; 1024, p. 18; 1072, p. 23). City of Miami Springs.
SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|----------|------|---------|------|
| Jan. 29 | 5.93 | Apr. 29 | 5.95 | July 30 | 4.14 | Oct. 30 | 0.86 |
| Feb. 26 | 5.40 | May 29 | 5.48 | Aug. 29 | 4.34 | Nov. 28 | 2.50 |
| Mar. 31 | 5.78 | June 30 | 4.49 | Sept. 30 | 2.66 | Dec. 31 | 3.87 |

F11 (*1017, p. 22; 1024, p. 19; 1072, p. 24). City of Miami Springs.
NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.

F11--Continued.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 29 | 6.63 | Apr. 29 | 6.58 | July 30 | 4.91 | Oct. 30 | 1.69 |
| Feb. 26 | 6.15 | May 29 | 6.20 | Aug. 29 | 5.09 | Nov. 28 | 3.24 |
| Mar. 31 | 6.44 | June 30 | 5.20 | Sept. 30 | 3.39 | Dec. 31 | 4.64 |

F12 (*886, p. 66; *907, p. 29; 937, p. 23; 945, p. 30; *987, p. 18; 1017, p. 23; 1024, p. 19; 1072, p. 24). City of Miami Springs. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 29 | 9.37 | Apr. 29 | 9.30 | July 30 | 6.57 | Oct. 30 | 2.65 |
| Feb. 26 | 8.78 | May 29 | 8.67 | Aug. 29 | 6.57 | Nov. 28 | 4.54 |
| Mar. 31 | 8.95 | June 30 | 6.93 | Sept. 30 | 4.97 | Dec. 31 | 6.56 |

F13 (*1017, p. 23; 1024, p. 19; 1072, p. 24). City of Miami Springs. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 29 | 8.59 | Apr. 29 | 8.74 | July 30 | 5.89 | Oct. 30 | 1.69 |
| Feb. 26 | 7.98 | May 29 | 8.19 | Aug. 29 | 5.69 | Nov. 28 | 3.62 |
| Mar. 31 | 8.42 | June 30 | 6.25 | Sept. 30 | 4.09 | Dec. 31 | 5.61 |

F14 (*1017, p. 24; 1024, p. 19; 1072, p. 24). City of Miami Springs. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 29 | 7.10 | Apr. 29 | 7.72 | July 30 | 5.58 | Oct. 30 | 0.72 |
| Feb. 26 | 6.79 | May 29 | 7.23 | Aug. 29 | 4.34 | Nov. 28 | 2.22 |
| Mar. 31 | 7.50 | June 30 | 5.49 | Sept. 30 | 2.84 | Dec. 31 | 4.23 |

F15 (*1017, p. 25; 1024, p. 19; 1072, p. 24). City of Miami Springs. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 29 | 6.46 | Apr. 29 | 7.16 | July 30 | 4.10 | Oct. 30 | 0.31 |
| Feb. 26 | 6.31 | May 29 | 6.81 | Aug. 29 | 3.91 | Nov. 28 | 1.80 |
| Mar. 31 | 6.83 | June 30 | 5.18 | Sept. 30 | 2.41 | Dec. 31 | 3.56 |

F16 (*1017, p. 26; 1024, p. 19; 1072, p. 24). City of Opa Locka. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 22, T. 52 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: July 10, 6.03; Oct. 7, 3.93.

F22 (*1017, p. 27; 1024, p. 19; 1072, p. 24). City of Opa Locka. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, T. 52 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: July 10, 4.83; Oct. 7, 2.66.

F25 (*886, p. 65; *907, p. 26; 937, p. 23; 945, p. 30; *987, p. 18; 1017, p. 28; 1024, p. 19; 1072, p. 24). City of Opa Locka. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21, T. 52 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: July 10, 3.77; Oct. 7, 2.04.

F53 (*1017, p. 28; 1024, p. 19; 1072, p. 24). City of Miami. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 53 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: Aug. 5, 11.46; Oct. 7, 8.94.

F62 (*886, p. 67; *907, p. 30; 937, p. 24; 945, p. 30; *987, p. 19; 1017, p. 29; 1024, p. 19; 1072, p. 24). City of Miami. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T. 53 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: Aug. 8, 7.64; Oct. 7, 4.63.

F64 (*1017, p. 29; 1024, p. 20; 1072, p. 24). City of Miami. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 23, T. 53 S., R. 41 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|--------|-------------|--------|-------------|------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 14 | 9.79 | May 6 | 9.79 | Oct. 7 | 4.46 | | |
| Mar. 4 | 9.80 | Aug. 6 | 8.98 | 28 | 6.09 | | |

F69 (*1017, p. 30; 1024, p. 20; 1072, p. 24). City of Miami. $SE\frac{1}{4}NW\frac{1}{4}$ sec. 26, T. 53 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: Aug. 6, 7.74; Oct. 7, 3.97.

F109 (*886, p. 67; *907, p. 30; 937, p. 24; 945, p. 31; *987, p. 19; 1017, p. 31; 1024, p. 20; 1072, p. 24). City of Miami. $NE\frac{1}{4}SE\frac{1}{4}$ sec. 10, T. 53 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: Aug. 6, 7.19; Oct. 7, 4.66.

F112 (*1017, p. 31; 1024, p. 20; 1072, p. 25). City of Miami. $SW\frac{1}{4}NE\frac{1}{4}$ sec. 22, T. 53 S., R. 41 E. Well plugged, no measurements made in 1947.

F117 (*1017, p. 31; 1024, p. 20; 1072, p. 25). City of Miami. $NE\frac{1}{4}NW\frac{1}{4}$ sec. 34, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|--------|-------------|
| Jan. 14 | 5.85 | May 6 | 6.08 | Oct. 7 | 3.29 |
| Mar. 4 | 6.09 | July 17 | 5.28 | 28 | 3.04 |

F124 (*1017, p. 32; 1024, p. 20; 1072, p. 25). City of Miami. $NW\frac{1}{4}NW\frac{1}{4}$ sec. 3, T. 54 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: July 17, 7.36; Oct. 7, 5.17.

F137 (*1017, p. 33; 1024, p. 20; 1072, p. 25). City of Miami. Sec. 11, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | |
|--------|------|---------|------|---------|------|
| Mar. 4 | 9.44 | July 16 | 8.16 | Oct. 29 | 7.58 |
| May 7 | 9.35 | Oct. 7 | 5.70 | | |

F143 (*1072, p. 25). City of Miami. $NW\frac{1}{4}NE\frac{1}{4}$ sec. 15, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 2 | 9.94 | Apr. 10 | 10.45 | July 2 | 9.59 | Oct. 20 | 7.67 |
| Feb. 12 | 10.45 | May 7 | 10.08 | Aug. 4 | 9.74 | Nov. 24 | 9.05 |
| Mar. 5 | 10.26 | 30 | 9.72 | Sept. 4 | 9.87 | | |

F146 (*1072, p. 25). City of Miami. $SW\frac{1}{4}SE\frac{1}{4}$ sec. 10, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|---------|------|---------|------|
| Jan. 2 | 7.30 | Apr. 10 | 8.00 | July 2 | 6.74 | Oct. 20 | 3.87 |
| Feb. 12 | 7.98 | May 7 | 7.50 | Aug. 4 | 6.92 | Nov. 24 | 6.37 |
| Mar. 5 | 7.78 | 30 | 7.31 | Sept. 4 | 7.22 | | |

F147 (*1072, p. 25). City of Miami. $NW\frac{1}{4}NE\frac{1}{4}$ sec. 15, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|---------|------|---------|------|
| Jan. 2 | 8.23 | Apr. 10 | 8.89 | July 2 | 7.68 | Oct. 20 | 5.22 |
| Feb. 12 | 8.85 | May 7 | 8.38 | Aug. 4 | 7.88 | Nov. 24 | 7.35 |
| Mar. 5 | 8.68 | 30 | 8.03 | Sept. 4 | 8.16 | | |

F148 (*1072, p. 25). City of Miami. $SW\frac{1}{4}NE\frac{1}{4}$ sec. 15, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|---------|------|---------|------|
| Jan. 2 | 9.08 | Apr. 10 | 9.74 | July 3 | 8.65 | Oct. 20 | 6.32 |
| Feb. 12 | 9.67 | May 7 | 9.27 | Aug. 4 | 8.79 | Nov. 24 | 8.19 |
| Mar. 5 | 9.51 | 30 | 9.00 | Sept. 4 | 9.00 | | |

F154 (*1072, p. 26). City of Miami. $NE\frac{1}{4}NW\frac{1}{4}$ sec. 15, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|---------|-------|---------|------|
| Jan. 2 | 10.34 | Apr. 10 | 11.01 | July 2 | 9.68 | Oct. 20 | 6.59 |
| Feb. 12 | 11.04 | May 7 | 10.48 | Aug. 4 | 9.77 | Nov. 24 | 9.29 |
| Mar. 5 | 10.78 | 30 | 10.26 | Sept. 4 | 10.17 | | |

F155 (*1017, p. 34; 1024, p. 20; 1072, p. 26). City of Miami. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 54 S., R. 41 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 2 | 4.94 | Apr. 10 | 5.63 | July 3 | 4.49 | Oct. 7 | 1.47 |
| Feb. 12 | 5.59 | May 7 | 5.15 | Aug. 4 | 4.55 | 20 | 1.70 |
| Mar. 5 | 5.40 | 30 | 4.87 | Sept. 4 | 4.86 | Nov. 24 | 4.04 |

F156 (*1072, p. 26). City of Miami. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 54 S., R. 41 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 2 | 11.55 | Apr. 10 | 12.22 | July 3 | 11.00 | Oct. 20 | 7.84 |
| Feb. 13 | 12.09 | May 7 | 11.79 | Aug. 4 | 10.89 | Nov. 24 | 9.66 |
| Mar. 4 | 12.02 | 30 | 11.57 | Sept. 4 | 11.10 | | |

F158 (*1072, p. 26). City of Miami. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T. 54 S., R. 41 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 2 | 11.48 | Apr. 10 | 11.96 | July 3 | 11.22 | Oct. 20 | 9.58 |
| Feb. 13 | 11.93 | May 7 | 11.57 | Aug. 4 | 11.29 | Nov. 24 | 10.67 |
| Mar. 5 | 11.84 | 30 | 11.48 | Sept. 8 | 11.60 | | |

F159 (*1072, p. 26). City of Miami. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, T. 54 S., R. 41 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 2 | 15.54 | Apr. 10 | 15.93 | July 3 | 15.22 | Oct. 20 | 13.86 |
| Feb. 13 | 15.91 | May 7 | 15.61 | Aug. 4 | 15.45 | Nov. 25 | 14.64 |
| Mar. 5 | 15.92 | 30 | 15.60 | Sept. 8 | 15.73 | | |

F160 (*1072, p. 26). City of Miami. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, T. 54 S., R. 41 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 2 | 13.54 | Apr. 10 | 13.85 | July 3 | 13.23 | Oct. 21 | 11.93 |
| Feb. 13 | 14.02 | May 7 | 13.61 | Aug. 4 | 13.31 | Nov. 25 | 12.06 |
| Mar. 5 | 14.06 | 30 | 13.67 | Sept. 8 | 13.61 | | |

F163 (*1072, p. 27). City of Miami. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 10, T. 54 S., R. 41 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|--------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Feb. 12 | 11.69 | May 7 | 11.15 | Aug. 4 | 10.39 | Oct. 20 | 6.88 |
| Mar. 5 | 11.47 | 30 | 11.16 | Sept. 4 | 10.88 | Nov. 24 | 9.97 |
| Apr. 10 | 11.73 | July 2 | 10.29 | | | | |

F164 (*1072, p. 27). City of Miami. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 10, T. 54 S., R. 41 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 2 | 10.85 | Apr. 10 | 11.59 | July 2 | 10.20 | Oct. 20 | 6.96 |
| Feb. 12 | 11.55 | May 7 | 11.04 | Aug. 4 | 10.30 | Nov. 24 | 9.85 |
| Mar. 5 | 11.34 | 30 | 10.98 | Sept. 4 | 10.75 | | |

F165 (*1072, p. 27). City of Miami. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 54 S., R. 41 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 2 | 5.53 | Apr. 10 | 6.35 | July 2 | 5.00 | Oct. 20 | 1.88 |
| Feb. 12 | 6.30 | May 7 | 5.81 | Aug. 4 | 5.12 | Nov. 24 | 4.66 |
| Mar. 5 | 6.12 | 30 | 5.74 | Sept. 4 | 5.50 | | |

F166 (*1072, p. 27). City of Miami. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 54 S., R. 41 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 2 | 7.82 | Apr. 10 | 8.55 | July 3 | 7.27 | Oct. 20 | 4.37 |
| Feb. 12 | 8.51 | May 7 | 8.03 | Aug. 4 | 7.40 | Nov. 24 | 6.89 |
| Mar. 5 | 8.31 | 30 | 7.88 | Sept. 4 | 7.77 | | |

F168 (*1072, p. 27). City of Miami. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 16, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 2 | 10.97 | Apr. 11 | 11.53 | July 3 | 10.57 | Oct. 21 | 8.76 |
| Feb. 13 | 11.43 | May 8 | 11.13 | Aug. 4 | 10.69 | Nov. 25 | 10.12 |
| Mar. 5 | 11.42 | 30 | 11.00 | Sept. 8 | 10.97 | | |

F172 (*1072, p. 27). City of Miami. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|--------|-------|---------|-------|---------|------|
| Feb. 12 | 10.77 | May 7 | 10.26 | Aug. 1 | 9.23 | Oct. 20 | 5.81 |
| Mar. 5 | 10.59 | 30 | 10.32 | Sept. 4 | 10.01 | Nov. 24 | 9.07 |
| Apr. 10 | 10.84 | July 2 | 9.37 | | | | |

F173 (*1072, p. 28). City of Miami. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 16, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|---------|------|---------|------|
| Jan. 2 | 7.17 | Apr. 11 | 7.79 | July 3 | 6.73 | Oct. 21 | 4.48 |
| Feb. 13 | 7.76 | May 8 | 7.36 | Aug. 4 | 7.86 | Nov. 25 | 6.29 |
| Mar. 6 | 7.65 | 30 | 7.25 | Sept. 8 | 7.09 | | |

F174 (*945, p. 31; *987, p. 19; *1017, p. 35; 1024, p. 20; 1072, p. 28). City of Miami. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|--------|-------|---------|-------|---------|------|
| Feb. 12 | 11.23 | May 7 | 10.73 | Aug. 1 | 9.66 | Oct. 20 | 6.23 |
| Mar. 5 | 11.03 | 30 | 10.82 | Sept. 4 | 10.39 | Nov. 24 | 9.44 |
| Apr. 10 | 11.31 | July 2 | 9.74 | Oct. 7 | 6.28 | | |

F176 (*1072, p. 28). City of Miami. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 16, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|---------|------|---------|------|
| Jan. 2 | 8.14 | Apr. 11 | 8.86 | July 3 | 7.61 | Oct. 21 | 4.73 |
| Feb. 13 | 8.78 | May 8 | 8.38 | Aug. 4 | 7.65 | Nov. 25 | 7.08 |
| Mar. 6 | 8.66 | 30 | 8.35 | Sept. 8 | 7.87 | | |

F177 (*1072, p. 28). City of Miami. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 16, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|---------|------|---------|------|
| Jan. 2 | 4.00 | Apr. 11 | 4.61 | July 3 | 3.55 | Oct. 21 | 1.31 |
| Feb. 13 | 4.58 | May 8 | 4.17 | Aug. 4 | 3.68 | Nov. 25 | 3.06 |
| Mar. 6 | 4.45 | 30 | 4.08 | Sept. 8 | 3.90 | | |

F178 (*1072, p. 28). City of Miami. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|--------|------|---------|------|---------|------|
| Feb. 12 | 9.33 | May 7 | 8.78 | Aug. 1 | 7.77 | Oct. 20 | 4.32 |
| Mar. 5 | 9.13 | 30 | 8.88 | Sept. 4 | 8.46 | Nov. 24 | 7.52 |
| Apr. 10 | 9.37 | July 2 | 7.85 | | | | |

F179 (*945, p. 32; *987, p. 19; 1017, p. 35; 1024, p. 21; 1072, p. 28) City of Miami. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 16, T. 54 S., R. 41 E.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 7 | 6.85 | 7.03 | Mar. 4 | 7.20 | 7.27 |
| 14 | 7.03 | 7.15 | 11 | 7.27 | 7.36 |
| 21 | 7.15 | 7.31 | 18 | 7.34 | 7.36 |
| 28 | 7.31 | 7.39 | 25 | 7.35 | 7.39 |
| Feb. 4 | 7.32 | 7.38 | Apr. 1 | 7.39 | 7.52 |
| 11 | 7.36 | 7.43 | 8 | 7.45 | 7.52 |
| 18 | 7.31 | 7.44 | 15 | 7.32 | 7.54 |
| 25 | 7.20 | 7.31 | 22 | 6.76 | 7.32 |

F179--Continued.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Apr. 29 | 6.76 | 6.98 | Aug. 26 | 6.47 | 6.59 |
| May 6 | 6.97 | 7.04 | Sept. 2 | 6.59 | 6.68 |
| 13 | 6.99 | 7.09 | 9 | 6.62 | 6.73 |
| 20 | 6.98 | 7.07 | 16 | 6.33 | 6.68 |
| 27 | 7.07 | 7.13 | 23 | 5.49 | 6.33 |
| June 3 | 6.62 | 7.13 | Oct. 14 | 1.20 | 3.75 |
| 10 | 6.31 | 6.68 | 21 | 1.66 | 3.70 |
| 17 | 5.71 | 6.31 | 28 | 3.70 | 4.45 |
| 24 | 5.45 | 5.71 | Nov. 4 | 4.45 | 5.21 |
| July 1 | 5.69 | 6.19 | 11 | 5.21 | 5.48 |
| 8 | 6.14 | 6.25 | 18 | 5.48 | 5.79 |
| 15 | 5.28 | 6.21 | 25 | 5.79 | 5.88 |
| 22 | 5.28 | 5.70 | Dec. 2 | 5.65 | 5.88 |
| 29 | 5.70 | 6.06 | 9 | 5.68 | 5.96 |
| Aug. 5 | 6.04 | 6.36 | 16 | 5.96 | 6.17 |
| 12 | 6.26 | 6.39 | 23 | 6.17 | 6.31 |
| 19 | 6.37 | 6.57 | 30 | 6.31 | 6.40 |

F180 (#1072, p. 29). City of Miami. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 4, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Feb. 12 | 12.59 | May 7 | 12.17 | Aug. 1 | 11.02 | Oct. 20 | 7.31 |
| Mar. 5 | 12.34 | 30 | 12.13 | Sept. 4 | 11.35 | Nov. 24 | 9.99 |
| Apr. 10 | 12.62 | July 2 | 11.26 | | | | |

F181 (#1072, p. 29). City of Miami. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 2 | 3.60 | Apr. 11 | 4.23 | July 3 | 3.01 | Oct. 21 | 0.83 |
| Feb. 13 | 4.20 | May 8 | 3.82 | Aug. 4 | 3.24 | Nov. 25 | 2.67 |
| Mar. 6 | 4.81 | 30 | 3.63 | Sept. 8 | 3.50 | | |

F184 (#1072, p. 29). City of Miami. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 4, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Feb. 12 | 14.30 | May 7 | 13.95 | Aug. 1 | 12.84 | Oct. 20 | 5.42 |
| Mar. 5 | 14.09 | 30 | 13.84 | Sept. 4 | 13.07 | Nov. 24 | 11.56 |
| Apr. 10 | 14.33 | July 2 | 13.08 | | | | |

F186 (#886, p. 66; #907, p. 32; 937, p. 24; 945, p. 35; #987, pp. 19-20; 1017, p. 35; 1024, p. 21; 1072, p. 29). City of Miami. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 1, T. 54 S., R. 40 E. Water levels, in feet below land-surface datum, 1947: July 17, 7.00; Oct. 7, 4.70.F188 (#1072, p. 29). City of Miami. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 2 | 16.68 | Apr. 10 | 17.03 | July 3 | 16.32 | Oct. 20 | 15.19 |
| Feb. 13 | 17.01 | May 7 | 16.71 | Aug. 4 | 16.45 | Nov. 25 | 15.84 |
| Mar. 5 | 17.07 | 30 | 16.72 | Sept. 8 | 16.85 | | |

F191 (#1072, p. 30). City of Miami. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 16, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|--------|-------------|---------|-------------|
| Jan. 2 | 12.21 | Apr. 10 | 12.78 | July 3 | 11.82 | Sept. 8 | 12.19 |
| Feb. 13 | 12.72 | May 7 | 12.35 | Aug. 4 | 11.94 | Nov. 25 | 11.31 |
| Mar. 5 | 12.63 | 30 | 12.25 | | | | |

F192 (*1072, p. 30). City of Miami. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 2 | 10.03 | Apr. 10 | 10.36 | July 3 | 9.61 | Oct. 20 | 7.83 |
| Feb. 13 | 10.31 | May 7 | 10.00 | Aug. 4 | 9.72 | Nov. 24 | 8.60 |
| Mar. 5 | 10.23 | 30 | 9.83 | Sept. 8 | 9.85 | | |

F198 (*1072, p. 30). City of Miami. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|--------|-------------|---------|-------------|
| Jan. 2 | 10.63 | Apr. 10 | 11.05 | May 30 | 10.48 | Aug. 4 | 10.05 |
| Feb. 13 | 10.98 | May 7 | 10.53 | July 3 | 10.10 | Sept. 8 | 10.28 |
| Mar. 5 | 10.96 | | | | | | |

F199 (*1072, p. 30). City of Miami. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 2 | 16.97 | Apr. 10 | 17.45 | July 3 | 16.71 | Oct. 7 | 14.80 |
| Feb. 13 | 17.43 | May 7 | 17.06 | Aug. 4 | 16.89 | 20 | 15.22 |
| Mar. 5 | 17.37 | 30 | 16.99 | Sept. 8 | 17.10 | Nov. 25 | 16.15 |

F202 (*1072, p. 30). City of Miami. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 2 | 14.00 | Apr. 10 | 14.35 | July 3 | 13.61 | Oct. 7 | 11.79 |
| Feb. 13 | 14.32 | May 7 | 14.01 | Aug. 4 | 13.71 | 21 | 12.45 |
| Mar. 5 | 14.35 | 30 | 14.02 | Sept. 8 | 14.07 | Nov. 25 | 12.95 |

F210 (*987, p. 20; 1017, p. 35; 1024, p. 21; 1072, p. 30). City of Miami. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T. 53 S., R. 41 E.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 7 | 7.32 | 7.55 | July 8 | 6.28 | 6.62 |
| 14 | 7.55 | 7.63 | 15 | 4.98 | 6.34 |
| 21 | 7.60 | 7.84 | 22 | 5.00 | 5.87 |
| 28 | 7.84 | 7.90 | 29 | 5.76 | 6.17 |
| Feb. 4 | 7.87 | 7.96 | Aug. 5 | 5.82 | 6.45 |
| 11 | 7.91 | 8.02 | 12 | 5.69 | 6.48 |
| 18 | 7.70 | 8.03 | 19 | 6.06 | 6.57 |
| 25 | 7.57 | 7.70 | 26 | 6.36 | 6.70 |
| Mar. 4 | 7.57 | 7.66 | Sept. 9 | 6.25 | 6.69 |
| 11 | 7.63 | 7.76 | 16 | 6.05 | 6.52 |
| 18 | 7.71 | 7.78 | 23 | 4.92 | 6.14 |
| 25 | 7.73 | 7.83 | 30 | 2.93 | 5.45 |
| Apr. 1 | 7.83 | 8.04 | Oct. 7 | 2.66 | 3.46 |
| 8 | 8.02 | 8.09 | 14 | .85 | 3.75 |
| 15 | 7.77 | 8.11 | 21 | 1.63 | 3.22 |
| 22 | 7.24 | 7.77 | 28 | 3.22 | 4.16 |
| 29 | 7.29 | 7.66 | Nov. 4 | 4.16 | 4.90 |
| May 6 | 7.64 | 7.76 | 11 | 4.90 | 5.39 |
| 13 | 7.53 | 7.77 | 18 | 5.39 | 5.81 |
| 20 | 7.53 | 7.71 | 25 | 5.77 | 5.95 |
| 27 | 7.71 | 7.79 | Dec. 2 | 5.54 | 6.01 |
| June 3 | 7.00 | 7.78 | 9 | 5.63 | 6.12 |
| 10 | 6.69 | 7.20 | 16 | 6.12 | 6.42 |
| 17 | 5.68 | 6.69 | 23 | 6.42 | 6.58 |
| 24 | 5.54 | 6.01 | 30 | 6.58 | 6.76 |
| July 1 | 6.01 | 6.58 | | | |

F212 (*1017, p. 36; 1024, p. 22; 1072, p. 30). City of Miami. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 32, T. 52 S., R. 41 E. Water level, in feet below land-surface datum, 1947: July 10, 6.66.

F213 (*1017, p. 37; 1024, p. 22; 1072, p. 30). City of Miami. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T. 54 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 2 | 15.61 | Apr. 10 | 15.86 | July 3 | 15.05 | Oct. 7 | 13.20 |
| Feb. 13 | 15.89 | May 7 | 15.52 | Aug. 4 | 15.23 | 20 | 13.49 |
| Mar. 5 | 15.86 | 30 | 15.58 | Sept. 8 | 15.34 | Nov. 25 | 13.90 |

F214 (*1017, p. 43; 1024, p. 22; 1072, p. 30). City of Miami. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|--------|-------------|
| Jan. 13 | 9.85 | May 6 | 9.93 | Oct. 7 | 4.69 |
| Mar. 4 | 9.86 | July 18 | 7.27 | 28 | 6.13 |

F218 (*1017, p. 44; 1024, p. 22; 1072, p. 30). City of Miami. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18, T. 53 S., R. 42 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|--------|-------------|
| Jan. 13 | 9.52 | May 6 | 9.62 | Oct. 7 | 4.65 |
| Mar. 4 | 9.56 | July 18 | 7.18 | 28 | 6.06 |

F225 (*1017, p. 45; 1024, p. 23; 1072, p. 30). City of Miami. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7, T. 53 S., R. 42 E. Water levels, in feet below land-surface datum, 1947: Jan. 13, 7.67; July 18, 5.88; Aug. 7, 3.89.

F226 (*1017, p. 46; 1024, p. 23; 1072, p. 30). City of Miami. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18, T. 53 S., R. 42 E. Water levels, in feet below land-surface datum, 1947: July 18, 13.06; Oct. 7, 10.37.

F228 (*1017, p. 46; 1024, p. 23; 1072, p. 30). City of Miami. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 31, T. 52 S., R. 42 E. Water levels, in feet below land-surface datum, 1947: Jan. 10, 11.81; July 11, 11.53; July 18, 10.10; Oct. 7, 8.00.

F233 (*886, p. 67; *907, p. 30; 937, p. 24; 945, p. 33; *987, p. 21; *1017, p. 47; 1024, p. 23; 1072, p. 30). City of Miami. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 33, T. 53 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: Jan. 14, 9.83; July 17, 8.36; Oct. 7, 6.51.

F234 (*945, p. 33; *987, p. 21; 1017, p. 47; 1024, p. 23; 1072, p. 32). City of Miami. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 27, T. 53 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: Jan. 14, 7.25; Aug. 8, 5.94; Oct. 8, 3.95.

F235 (*1017, p. 47; 1024, p. 23; 1072, p. 32). City of Hialeah. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 20, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 6.05 | May 29 | 5.58 | July 30 | 4.73 | Oct. 30 | 2.05 |
| Feb. 26 | 5.71 | June 30 | 4.86 | Aug. 29 | 4.86 | Nov. 28 | 3.35 |
| Mar. 31 | 5.93 | July 7 | 5.05 | Sept. 30 | 3.20 | Dec. 31 | 4.55 |
| Apr. 29 | 5.92 | | | | | | |

F236 (*1017, p. 48; 1024, p. 23; 1072, p. 32). City of Hialeah. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 20, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 6.86 | May 29 | 6.44 | July 30 | 5.22 | Oct. 30 | 2.27 |
| Feb. 26 | 6.44 | June 30 | 5.36 | Aug. 29 | 5.49 | Nov. 28 | 3.76 |
| Mar. 31 | 6.67 | July 7 | 5.66 | Sept. 30 | 3.74 | Dec. 31 | 5.06 |
| Apr. 29 | 6.79 | | | | | | |

F237 (*1017, p. 49; 1024, p. 23; 1072, p. 32). City of Hialeah. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 20, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 6.31 | May 29 | 5.92 | July 30 | 4.53 | Oct. 30 | 1.49 |
| Feb. 26 | 5.85 | June 30 | 4.68 | Aug. 29 | 4.87 | Nov. 28 | 3.04 |
| Mar. 31 | 6.13 | July 7 | 5.03 | Sept. 30 | 3.08 | Dec. 31 | 4.41 |
| Apr. 29 | 6.06 | | | | | | |

F238 (*1017, p. 50; 1024, p. 23; 1072, p. 32). City of Hialeah.
SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 17, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 7.34 | May 29 | 7.09 | July 30 | 5.20 | Oct. 30 | 2.03 |
| Feb. 26 | 6.90 | June 30 | 5.33 | Aug. 29 | 5.78 | Nov. 28 | 3.70 |
| Mar. 31 | 7.24 | July 7 | 5.80 | Sept. 30 | 4.91 | Dec. 31 | 5.35 |
| Apr. 29 | 7.29 | | | | | | |

F239 (*1017, p. 50; 1024, p. 23; 1072, p. 32). City of Hialeah.
NW $\frac{1}{2}$ NW $\frac{1}{4}$ sec. 17, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Jan. 29 | 8.72 | May 29 | 8.53 | July 30 | 6.57 | Oct. 30 | 3.39 |
|---------|------|---------|------|----------|------|---------|------|
| Feb. 26 | 8.29 | June 30 | 6.68 | Aug. 29 | 7.18 | Nov. 28 | 5.09 |
| Mar. 31 | 8.64 | July 7 | 7.15 | Sept. 30 | 5.26 | Dec. 31 | 6.76 |
| Apr. 29 | 8.69 | | | | | | |

F240 (*886, p. 67; *907, p. 30; 937, p. 24; 945, p. 34; *987, p. 22; 1017, p. 51; 1024, p. 23; 1072, p. 32). City of Hialeah. NW $\frac{1}{2}$ NE $\frac{1}{4}$ sec. 8, T. 53 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: July 7, 5.12; Oct. 7, 2.49.

F243 (*945, p. 34; *987, p. 22; 1017, p. 51; 1024, p. 24; 1072, p. 32). City of Hialeah. NE $\frac{1}{2}$ NE $\frac{1}{4}$ sec. 31, T. 52 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: July 8, 6.42; Oct. 7, 4.33.

F245 (*1017, p. 51; 1024, p. 24; 1072, p. 32). City of Hialeah.
NW $\frac{1}{2}$ SW $\frac{1}{4}$ sec. 32, T. 52 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: July 8, 5.08; Oct. 7, 2.64.

F246 (*1017, p. 51; 1024, p. 24; 1072, p. 32). City of Hialeah.
SW $\frac{1}{2}$ NE $\frac{1}{4}$ sec. 5, T. 53 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: July 8, 4.89; Oct. 7, 2.62.

F253 (*945, p. 35; *987, p. 22; 1017, p. 52; 1024, p. 24; 1072, p. 32). City of Hialeah. SE $\frac{1}{2}$ NW $\frac{1}{4}$ sec. 12, T. 53 S., R. 40 E. Water levels, in feet with reference to land-surface datum, 1947: July 8, -2.92; Oct. 3, +0.92.

F257 (*1017, p. 52; 1024, p. 24; 1072, p. 33). City of Hialeah.
NW $\frac{1}{2}$ SW $\frac{1}{4}$ sec. 7, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|----------|-------------|---------|-------------|
| July 8 | 1.91 | Aug. 29 | 1.14 | Oct. 3 | 1.46 |
| 31 | 1.18 | Sept. 30 | .81 | Dec. 31 | .68 |

a Above land-surface datum.

F260 (*1017, p. 53; 1024, p. 24; 1072, p. 33). City of Hialeah.
SE $\frac{1}{2}$ SW $\frac{1}{4}$ sec. 7, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 7.69 | May 29 | 7.54 | Aug. 29 | 5.85 | Oct. 30 | 1.71 |
| Feb. 26 | 7.18 | June 30 | 5.61 | Sept. 30 | 4.03 | Nov. 28 | 2.55 |
| Mar. 31 | 7.56 | July 8 | 6.08 | Oct. 3 | 3.61 | Dec. 31 | 5.41 |
| Apr. 29 | 7.65 | 31 | 5.37 | | | | |

F261 (*1017, p. 54; 1024, p. 24; 1072, p. 33). City of Hialeah.
NE $\frac{1}{2}$ SE $\frac{1}{4}$ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Jan. 29 | 6.72 | May 29 | 6.39 | July 30 | 4.63 | Oct. 30 | 1.33 |
|---------|------|---------|------|----------|------|---------|------|
| Feb. 26 | 6.24 | June 30 | 4.82 | Aug. 29 | 5.07 | Nov. 28 | 2.99 |
| Mar. 31 | 6.55 | July 8 | 5.26 | Sept. 30 | 3.27 | Dec. 31 | 4.61 |
| Apr. 29 | 6.67 | | | | | | |

34 WATER LEVELS AND ARTESIAN PRESSURE, 1947, SOUTHEASTERN STATES

F263 (*1017, p. 55; 1024, p. 24; 1072, p. 33). City of Hialeah.
SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 7.20 | May 29 | 6.86 | July 30 | 5.13 | Oct. 30 | 1.81 |
| Feb. 26 | 6.70 | June 30 | 5.33 | Aug. 29 | 5.52 | Nov. 28 | 3.43 |
| Mar. 31 | 7.02 | July 8 | 5.77 | Sept. 30 | 3.72 | Dec. 31 | 5.07 |
| Apr. 29 | 7.13 | | | | | | |

F264 (*1017, p. 56; 1024, p. 24; 1072, p. 33). City of Hialeah.
SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 6.89 | May 29 | 6.70 | July 30 | 4.84 | Oct. 30 | 1.50 |
| Feb. 26 | 6.41 | June 30 | 5.03 | Aug. 29 | 5.31 | Nov. 28 | 3.14 |
| Mar. 31 | 6.83 | July 8 | 5.48 | Sept. 30 | 3.51 | Dec. 31 | 4.85 |
| Apr. 29 | 6.94 | | | | | | |

F265 (*1017, p. 57; 1024, p. 24; 1072, p. 33). City of Hialeah.
NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 6.64 | May 29 | 6.36 | July 30 | 4.43 | Oct. 30 | 1.09 |
| Feb. 26 | 6.11 | June 30 | 4.61 | Aug. 29 | 4.95 | Nov. 28 | 2.77 |
| Mar. 31 | 6.50 | July 8 | 5.04 | Sept. 30 | 3.13 | Dec. 31 | 4.52 |
| Apr. 29 | 6.58 | | | | | | |

F266 (*1017, p. 58; 1024, p. 25; 1072, p. 33). City of Hialeah.
NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 7.34 | May 29 | 7.22 | July 30 | 5.27 | Oct. 30 | 1.95 |
| Feb. 26 | 7.01 | July 30 | 5.45 | Aug. 29 | 5.83 | Nov. 28 | 3.65 |
| Mar. 31 | 7.35 | July 9 | 5.85 | Sept. 30 | 4.01 | Dec. 30 | 5.39 |
| Apr. 29 | 7.43 | | | | | | |

F268 (*886, p. 67; *907, p. 31; 937, p. 24; 945, p. 35; *987, p. 22; 1017, p. 59; 1024, p. 25; 1072, p. 33). City of Hialeah. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 6.00 | May 29 | 5.63 | July 30 | 3.09 | Oct. 30 | a 0.31 |
| Feb. 26 | 5.52 | June 30 | 3.33 | Aug. 29 | 3.45 | Nov. 28 | 1.34 |
| Mar. 31 | 5.78 | July 8 | 3.74 | Sept. 30 | 1.66 | Dec. 31 | 2.97 |
| Apr. 29 | 5.95 | | | | | | |

a Above land-surface datum.

F270 (*1017, p. 59; 1024, p. 25; 1072, p. 34). City of Hialeah.
SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 6.33 | May 29 | 5.96 | July 30 | 4.02 | Oct. 30 | 0.38 |
| Feb. 26 | 5.79 | June 30 | 3.93 | Aug. 29 | 4.38 | Nov. 28 | 2.06 |
| Mar. 31 | 6.07 | July 9 | 4.64 | Sept. 30 | 2.62 | Dec. 31 | 3.87 |
| Apr. 29 | 6.24 | | | | | | |

F271 (*1017, p. 60; 1024, p. 25; 1072, p. 34). City of Hialeah.
NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 7.64 | July 9 | 5.70 | Sept. 30 | 3.72 | Nov. 28 | 3.20 |
| Feb. 26 | 7.09 | Aug. 29 | 5.49 | Oct. 30 | 1.52 | Dec. 31 | 5.01 |
| June 30 | 5.34 | | | | | | |

F273 (*945, p. 36; *987, p. 22; 1017, p. 61; 1024, p. 25; 1072, p. 34). Town of North Miami. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 29, T. 52 S., R. 42 E. Water levels, in feet below land-surface datum, 1947: July 10, 10.54; Oct. 7, 7.99.

F279 (*1017, p. 61; 1024, p. 25; 1072, p. 34). Town of North Miami. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 30, T. 52 S., R. 42 E. Water levels, in feet below land-surface datum, 1947: Jan. 10, 6.72; July 10, 5.67; Oct. 7, 3.42.

F281 (*1017, p. 62; 1024, p. 25; 1072, p. 34). Town of North Miami. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 30, T. 52 S., R. 42 E. Water levels, in feet below land-surface datum, 1947: July 10, 4.70; Oct. 7, 2.54.

F283 (*1017, p. 63; 1024, p. 25; 1072, p. 34). Town of North Miami. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 52 S., R. 42 E. Water levels, in feet below land-surface datum, 1947: July 11, 6.00; Oct. 7, 3.99.

F284 (*886, p. 66; *907, p. 28; 937, p. 25; 945, p. 36; *987, p. 23; 1017, p. 63; 1024, p. 25; 1072, p. 34). Town of North Miami. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 26, T. 52 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: Jan. 10, 9.85; July 11, 8.74; Oct. 7, 6.32.

F288 (*886, p. 66; *907, p. 28; 937, p. 24; 945, p. 36; 987, p. 23; 1017, p. 63; 1024, p. 25; 1072, p. 34). Town of North Miami Beach. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7, T. 52 S., R. 42 E. Water levels, in feet below land-surface datum, 1947: July 11, 5.60; Oct. 7, 3.53.

F296 (*1017, p. 64; 1024, p. 25; 1072, p. 34). Town of North Miami Beach. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21, T. 52 S., R. 42 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|--------|-------------|
| Jan. 13 | 8.52 | May 5 | 8.61 | Oct. 7 | 5.57 |
| Mar. 4 | 8.37 | July 11 | 7.58 | 28 | 7.28 |

F297 (*1017, p. 64; 1024, p. 26; 1072, p. 34). Town of North Miami. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 52 S., R. 42 E. Water levels, in feet below land-surface datum, 1947: Jan. 10, 8.04; July 11, 6.39; Oct. 7, 3.80.

F299 (*1017, p. 65; 1024, p. 26; 1072, p. 34). Village of Biscayne Park. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 30, T. 52 S., R. 42 E. Water levels, in feet below land-surface datum, 1947: July 11, 5.38; Oct. 7, 3.21.

F300 (*1017, p. 66; 1024, p. 26; 1072, p. 34). Town of North Miami Beach. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 9, T. 52 S., R. 42 E. Water levels, in feet below land-surface datum, 1947: Jan. 10, 9.62; Oct. 7, 5.54.

F302 (*1017, p. 67; 1024, p. 26; 1072, p. 34). City of Coral Gables. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 17, T. 54 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: July 14, 6.32; Oct. 7, 4.28.

F303 (*1072, p. 35). City of Coral Gables. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 8, T. 54 S., R. 41 E. Recorder removed June 17.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 7 | 8.74 | 8.98 | Apr. 1 | 9.44 | 9.59 |
| 14 | 8.98 | 9.14 | 8 | 9.50 | 9.59 |
| 21 | 9.14 | 9.29 | 15 | 9.28 | 9.59 |
| 28 | 9.29 | 9.38 | 22 | 8.74 | 9.28 |
| Feb. 4 | 9.38 | 9.44 | 29 | 8.85 | 9.13 |
| 11 | 9.43 | 9.47 | May 6 | 9.03 | 9.20 |
| 18 | 9.35 | 9.51 | 13 | 9.07 | 9.11 |
| 25 | 9.22 | 9.35 | 20 | 9.10 | 9.21 |
| Mar. 4 | 9.22 | 9.29 | 27 | 9.21 | 9.29 |
| 11 | 9.29 | 9.36 | June 3 | 8.76 | 9.31 |
| 18 | 9.36 | 9.40 | 10 | 8.72 | 8.83 |
| 25 | 9.40 | 9.45 | | | |

F307 (*1017, p. 68; 1024, p. 26; 1072, p. 35). City of Coral Gables. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 20, T. 54 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: July 14, 10.31; Oct. 7, 8.84.

F309 (*945, p. 37; *987, p. 23; 1017, p. 68; 1024, p. 26; 1072, p. 35). City of Coral Gables. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 18, T. 54 S., R. 41 E. Well plugged; no measurements made in 1947.

F310 (*1017, p. 68; 1024, p. 26; 1072, p. 35). City of Coral Gables. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 7, T. 54 S., R. 41 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 3.27.

F317 (*1017, p. 69; 1024, p. 26; 1072, p. 35). City of Coral Gables. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T. 54 S., R. 41 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 2.76.

F319 (*1017, p. 70; 1024, p. 26; 1072, p. 35). Town of South Miami. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, T. 54 S., R. 40 E.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 7 | 8.85 | 9.05 | July 8 | 7.69 | 8.14 |
| 14 | 9.05 | 9.14 | 15 | 6.87 | 7.75 |
| 21 | 9.13 | 9.21 | 22 | 6.87 | 7.25 |
| 28 | 9.21 | 9.26 | 29 | 7.25 | 7.53 |
| Feb. 4 | 9.23 | 9.26 | Aug. 5 | 7.53 | 7.97 |
| 11 | 9.26 | 9.39 | 12 | 7.97 | 8.21 |
| 18 | 9.26 | 9.40 | 19 | 8.21 | 8.42 |
| 25 | 9.17 | 9.26 | 26 | 8.06 | 8.22 |
| Mar. 4 | 9.17 | 9.25 | Sept. 2 | 8.16 | 8.28 |
| 11 | 9.25 | 9.35 | 9 | 8.27 | 8.34 |
| 18 | 9.35 | 9.48 | 16 | 8.20 | 8.36 |
| 25 | 9.45 | 9.50 | 23 | 7.23 | 8.20 |
| Apr. 1 | 9.50 | .... | 30 | 6.29 | 7.23 |
| 8 | .... | 9.64 | Oct. 7 | 5.06 | 6.31 |
| 15 | 9.54 | 9.68 | 14 | 2.27 | 5.67 |
| 22 | 9.17 | 9.54 | 21 | 4.06 | 5.14 |
| 29 | 9.13 | 9.30 | 28 | 5.14 | 6.16 |
| May 6 | 9.27 | 9.39 | Nov. 4 | 6.16 | 6.79 |
| 13 | 9.29 | 9.35 | 11 | 6.79 | 7.17 |
| 20 | 9.33 | 9.46 | 18 | 7.17 | 7.62 |
| 27 | 9.46 | 9.55 | Dec. 2 | 7.47 | 7.71 |
| June 3 | 9.28 | 9.55 | 9 | 7.57 | 8.05 |
| 10 | 9.06 | 9.28 | 16 | 8.05 | 8.35 |
| 17 | 7.72 | 9.06 | 23 | 8.35 | 8.42 |
| 24 | 6.80 | 7.72 | 30 | 8.42 | 8.55 |
| July 1 | 7.40 | 8.05 | | | |

F322 (*1017, p. 71; 1024, p. 26; 1072, p. 36). Town of South Miami. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, T. 54 S., R. 40 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 7.95.

F331 (*945, p. 37; *987, p. 23; 1017, p. 71; 1024, p. 26; 1072, p. 36). Town of South Miami. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, T. 54 S., R. 40 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 2.74.

F332 (*1017, p. 71; 1024, p. 26; 1072, p. 36). City of Hialeah. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 5.25 | Apr. 29 | 5.08 | July 31 | 2.78 | Oct. 7 | 0.36 |
| Feb. 26 | 4.66 | May 29 | 4.75 | Aug. 29 | 3.01 | Nov. 28 | .40 |
| Mar. 31 | 4.85 | June 30 | 3.20 | Sept. 30 | 1.20 | Dec. 31 | 2.45 |

a Above land-surface datum.

F334 (*1017, p. 72; 1024, p. 27; 1072, p. 36). Town of Homestead. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 7, T. 57 S., R. 39 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 3.66.

F358 (*1017, p. 73; 1024, p. 27; 1072, p. 36). Town of Homestead.
NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T. 57 S., R. 38 E.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 7 | 5.29 | 5.54 | July 29 | 2.24 | 2.95 |
| 21 | 5.40 | 5.67 | Aug. 5 | 2.95 | 3.69 |
| 28 | 5.67 | 5.83 | 12 | 3.63 | 3.97 |
| Feb. 4 | 5.83 | 5.97 | 19 | 1.90 | 3.88 |
| 11 | 5.96 | 6.13 | 26 | 2.14 | 3.00 |
| 18 | 5.76 | 6.16 | Sept. 2 | 2.91 | 3.52 |
| 25 | 5.83 | 6.00 | 9 | 2.47 | 3.14 |
| Mar. 4 | 6.00 | 6.16 | 16 | 2.93 | 3.34 |
| 11 | 6.15 | 6.31 | 23 | 2.64 | 3.34 |
| 18 | 6.26 | 6.40 | 30 | 2.69 | 3.18 |
| 25 | 6.40 | 6.58 | Oct. 7 | 1.35 | 2.90 |
| Apr. 1 | 6.58 | 6.82 | 14 | .01 | 2.58 |
| 8 | 6.72 | 6.84 | 21 | 1.12 | 2.25 |
| 15 | 6.80 | .... | 28 | 2.25 | 2.75 |
| 22 | .... | 7.04 | Nov. 4 | 2.75 | 3.27 |
| May 20 | .... | 7.19 | 11 | 3.27 | 3.65 |
| 27 | 7.19 | 7.40 | 18 | 3.65 | 3.87 |
| June 3 | 5.82 | 7.40 | 25 | 3.37 | 3.89 |
| 10 | .... | 5.82 | Dec. 2 | 3.30 | 3.64 |
| 24 | .... | 2.34 | 9 | 3.47 | 3.94 |
| July 1 | 2.14 | 2.84 | 16 | 3.94 | 4.32 |
| 8 | 2.52 | 3.08 | 23 | 4.04 | 4.40 |
| 15 | 2.08 | 3.18 | 30 | 4.17 | 4.51 |
| 22 | 2.01 | 2.56 | | | |

F364 (*1017, p. 74; 1024, p. 27; 1072, p. 36). Town of Homestead.
NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 12, T. 57 S., R. 38 E. Water level, in feet below land-surface datum, 1947: Oct. 8, 3.54.

F378 (*1017, p. 75; 1024, p. 27; 1072, p. 37). Town of Florida City.
SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, T. 57 S., R. 38 E.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 7 | 4.90 | 5.12 | July 22 | 2.12 | 2.61 |
| 14 | 4.86 | 5.25 | 29 | 2.40 | 2.95 |
| 21 | 4.86 | 5.20 | Aug. 5 | 2.95 | 3.54 |
| 28 | 5.20 | 5.36 | 12 | 3.48 | 3.76 |
| Feb. 4 | 5.36 | 5.51 | 19 | 2.20 | 3.69 |
| 11 | 5.44 | 5.63 | 26 | 2.32 | 3.03 |
| 18 | 5.06 | 5.66 | Sept. 2 | 2.64 | 3.42 |
| 25 | 5.31 | 5.49 | 9 | 2.13 | 3.04 |
| Mar. 4 | 5.42 | 5.63 | 16 | 2.90 | 3.15 |
| 11 | 5.60 | 5.76 | 23 | 2.49 | 3.15 |
| 18 | 5.64 | 5.83 | 30 | 2.51 | 3.00 |
| 25 | 5.83 | 6.00 | Oct. 7 | 1.59 | .... |
| Apr. 1 | 6.00 | .... | 14 | .62 | 2.24 |
| 22 | 6.37 | 6.50 | 21 | 1.10 | 2.33 |
| May 13 | 6.14 | 6.91 | 28 | 2.33 | 2.66 |
| 20 | 6.20 | 6.60 | Nov. 4 | 2.66 | 3.09 |
| 27 | 6.60 | 6.81 | 11 | 3.09 | 3.39 |
| June 3 | 5.04 | 6.78 | 18 | 3.39 | 3.68 |
| 10 | .... | 5.09 | 25 | 3.04 | 3.62 |
| 17 | 1.14 | .... | Dec. 2 | 3.02 | 3.29 |
| 24 | 1.05 | 2.32 | 9 | 3.22 | 3.65 |
| July 1 | 2.14 | 2.77 | 16 | 3.65 | 3.97 |
| 8 | 1.74 | 2.93 | 23 | 3.62 | 4.04 |
| 15 | 1.54 | 3.10 | 30 | 3.80 | 4.13 |

F379 (*1017, p. 75; 1024, p. 27; 1072, p. 37). Town of Naranja.
NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, T. 56 S., R. 39 E. Water levels, in feet below land-surface datum, 1947: Jan. 15, 6.86; July 14, 3.73; Oct. 7, 3.23.

F380 (*1017, p. 76; 1024, p. 27; 1072, p. 37). Town of Princeton.
NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 26, T. 56 S., R. 39 E. Water levels, in feet below land-surface datum, 1947: July 14, 4.89; Oct. 7, 4.55.

F381 (*1017, p. 76; 1024, p. 27; 1072, p. 37). J. D. DeBuchananne.
SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21, T. 56 S., R. 39 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 6.00.

F384 (*1017, p. 77; 1024, p. 27; 1072, p. 37). Bjorkman. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 10, T. 56 S., R. 39 E. Water levels, in feet below land-surface datum, 1947: July 15, 2.51; Oct. 7, 3.40.

F385 (*1017, p. 77; 1024, p. 27; 1072, p. 37). Town of Goulds.
SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 13, T. 56 S., R. 39 E. Water levels, in feet below land-surface datum, 1947: Jan. 15, 7.32; Oct. 7, 4.18.

F387 (*1017, p. 78; 1024, p. 27; 1072, p. 37). State of Florida.
NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, T. 58 S., R. 37 E. Water level, in feet below land-surface datum, 1947: Jan. 16, 2.83.

F393 (*1017, p. 79; 1024, p. 28; 1072, p. 37). City of Miami Springs.
NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|-----------|-------------|
| Jan. 29 | 5.07 | Apr. 29 | 4.99 | July 30 | 2.92 | Oct. 30 a | 0.55 |
| Feb. 26 | 4.47 | May 29 | 4.58 | Aug. 29 | 3.12 | Nov. 28 | 1.09 |
| Mar. 31 | 4.77 | June 30 | 3.23 | Sept. 30 | 1.40 | Dec. 31 | 2.72 |

a Above land-surface datum.

F394 (*1017, p. 79; 1024, p. 28; 1072, p. 37). City of Miami Springs.
SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|----------|------|---------|------|
| Jan. 29 | 5.26 | Apr. 29 | 5.18 | July 30 | 3.28 | Oct. 30 | 0.03 |
| Feb. 26 | 4.71 | May 29 | 4.89 | Aug. 29 | 3.57 | Nov. 28 | 1.60 |
| Mar. 31 | 5.01 | June 30 | 3.52 | Sept. 30 | 1.81 | Dec. 31 | 3.13 |

F396 (1017, p. 79; 1024, p. 28; 1072, p. 38). City of Miami Springs.
NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|------------|------|-----------|------|
| Jan. 29 | 3.69 | May 29 | 3.56 | July 31 | 1.45 | Oct. 30 a | 2.27 |
| Feb. 26 | 3.06 | June 30 | 2.20 | Aug. 29 | 1.01 | Nov. 28 a | .90 |
| Mar. 31 | 3.31 | July 7 | 2.43 | Sept. 30 a | .80 | Dec. 31 | .40 |
| Apr. 29 | 3.85 | | | | | | |

a Above land-surface datum.

F397 (*1017, p. 80; 1024, p. 28; 1072, p. 38). City of Miami Springs.
SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|----------|------|-----------|------|
| Jan. 29 | 4.64 | May 29 | 4.35 | July 31 | 2.46 | Oct. 30 a | 1.13 |
| Feb. 26 | 4.06 | June 30 | 3.24 | Aug. 29 | 1.92 | Nov. 28 a | .09 |
| Mar. 31 | 4.19 | July 7 | 3.46 | Sept. 30 | .07 | Dec. 31 | 1.37 |
| Apr. 29 | 4.74 | | | | | | |

a Above land-surface datum.

F398 (*1017, p. 80; 1024, p. 28; 1072, p. 38). City of Miami Springs.
SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|----------|------|-----------|------|
| Jan. 29 | 5.23 | May 29 | 4.96 | July 31 | 3.09 | Oct. 30 a | 0.53 |
| Feb. 26 | 4.64 | June 30 | 3.86 | Aug. 29 | 2.53 | Nov. 28 | .52 |
| Mar. 31 | 4.83 | July 7 | 4.06 | Sept. 30 | .70 | Dec. 31 | 2.01 |
| Apr. 29 | 5.38 | | | | | | |

a Above land-surface datum.

F399 (*1017, p. 80; 1024, p. 28; 1072, p. 38). City of Miami Springs.
SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

F399--Continued.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 5.67 | May 29 | 5.53 | July 31 | 3.46 | Oct. 30 | a 0.15 |
| Feb. 26 | 5.12 | June 30 | 4.25 | Aug. 29 | 2.97 | Nov. 28 | .91 |
| Mar. 31 | 5.34 | July 7 | 4.46 | Sept. 30 | 1.20 | Dec. 31 | 2.45 |
| Apr. 29 | 5.87 | | | | | | |

a Above land-surface datum.

F408 (*1024, p. 28; 1072, p. 38). City of Miami Springs. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 5.80 | May 29 | 5.50 | Aug. 29 | 3.11 | Oct. 30 | a 0.12 |
| Feb. 26 | 5.20 | June 30 | 4.44 | Sept. 30 | 1.20 | Nov. 28 | .74 |
| Mar. 31 | 5.34 | July 7 | 4.62 | Oct. 7 | .35 | Dec. 31 | 2.47 |
| Apr. 29 | 5.90 | 31 | 4.02 | | | | |

a Above land-surface datum.

F409 (*1024, p. 29; 1072, p. 38). City of Miami Springs. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 5.15 | May 29 | 4.35 | July 31 | 2.99 | Oct. 30 | a 0.64 |
| Feb. 26 | 4.56 | June 30 | 3.75 | Aug. 29 | 2.43 | Nov. 28 | .40 |
| Mar. 31 | 4.69 | July 7 | 3.97 | Sept. 30 | .59 | Dec. 31 | 1.85 |
| Apr. 29 | 5.26 | | | | | | |

a Above land-surface datum.

F410 (*1024, p. 29; 1072, p. 38). City of Miami Springs. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 5.34 | May 29 | 5.18 | July 30 | 3.12 | Oct. 30 | a 0.50 |
| Feb. 26 | 4.76 | June 30 | 3.91 | Aug. 29 | 2.61 | Nov. 28 | .59 |
| Mar. 31 | 4.98 | July 7 | 4.13 | Sept. 30 | .81 | Dec. 31 | 2.07 |
| Apr. 29 | 5.53 | | | | | | |

a Above land-surface datum.

F411 (*1024, p. 29; 1072, p. 38). City of Miami Springs. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 5.38 | May 29 | 5.34 | July 31 | 3.08 | Oct. 30 | a 0.68 |
| Feb. 26 | 4.79 | June 30 | 3.85 | Aug. 29 | 2.66 | Nov. 28 | .54 |
| Mar. 31 | 5.11 | July 7 | 4.08 | Sept. 30 | .88 | Dec. 31 | 2.12 |
| Apr. 29 | 5.63 | | | | | | |

a Above land-surface datum.

F412 (*1024, p. 29; 1072, p. 39). City of Miami Springs. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 5.57 | May 29 | 5.58 | July 31 | 3.24 | Oct. 30 | a 0.48 |
| Feb. 26 | 5.05 | June 30 | 4.08 | Aug. 29 | 2.80 | Nov. 28 | .77 |
| Mar. 31 | 5.40 | July 7 | 4.27 | Sept. 30 | 1.07 | Dec. 31 | 2.40 |
| Apr. 29 | 5.90 | | | | | | |

a Above land-surface datum.

F413 (*1024, p. 29; 1072, p. 39). City of Miami Springs. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 6.33 | May 29 | 6.38 | July 31 | 4.04 | Oct. 30 | 0.31 |
| Feb. 26 | 5.89 | June 30 | 4.92 | Aug. 29 | 3.81 | Nov. 28 | 1.66 |
| Mar. 31 | 6.30 | July 7 | 5.07 | Sept. 30 | 2.06 | Dec. 31 | 3.37 |
| Apr. 29 | 6.71 | | | | | | |

F414 (#1024, p. 29; 1072, p. 39). City of Miami Springs. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 6.15 | May 29 | 5.87 | July 31 | 3.63 | Oct. 30 | a 0.24 |
| Feb. 26 | 5.65 | June 30 | 4.20 | Aug. 29 | 3.73 | Nov. 28 | 1.76 |
| Mar. 31 | 6.26 | July 7 | 4.60 | Sept. 30 | 2.28 | Dec. 31 | 3.64 |
| Apr. 29 | 6.57 | | | | | | |

a Above land-surface datum.

F415 (#1024, p. 29; 1072, p. 39). City of Miami Springs. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Jan. 29 | 5.60 | May 29 | 5.16 | July 30 | 3.77 | Oct. 30 | 0.49 |
|---------|------|---------|------|----------|------|---------|------|
| Feb. 26 | 4.98 | June 30 | 4.07 | Aug. 29 | 3.97 | Nov. 28 | 2.08 |
| Mar. 31 | 5.38 | July 7 | 4.32 | Sept. 30 | 2.28 | Dec. 31 | 4.52 |
| Apr. 29 | 5.55 | | | | | | |

F416 (#1024, p. 30; 1072, p. 39). City of Miami Springs. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Jan. 29 | 5.59 | Apr. 29 | 5.26 | July 31 | 2.85 | Oct. 30 | a 1.13 |
|---------|------|---------|------|----------|------|---------|--------|
| Feb. 26 | 4.93 | May 29 | 4.85 | Aug. 29 | 3.20 | Nov. 28 | .60 |
| Mar. 31 | 5.13 | June 30 | 3.42 | Sept. 30 | 1.44 | Dec. 31 | 2.64 |

a Above land-surface datum.

G2 (#1017, p. 80; 1024, p. 30; 1072, p. 39). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| Jan. 29 | 3.32 | Apr. 29 | 3.74 | June 30 | 2.14 | Aug. 29 | 1.54 |
|---------|------|---------|------|---------|------|----------|--------|
| Feb. 26 | 3.34 | May 29 | 3.66 | July 30 | 1.67 | Sept. 30 | a 1.18 |
| Mar. 31 | 3.53 | | | | | | |

a Above land-surface datum.

G3 (#945, p. 38; #987, p. 23; 1017, p. 81; 1024, p. 30; 1072, p. 39). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 53 S., R. 40 E.

High and low weekly water level, in feet with reference to land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 7 | -3.76 | -3.91 | July 1 | -2.63 | -2.94 |
| 14 | -3.88 | -4.16 | 8 | -2.79 | -2.97 |
| 21 | -4.16 | -4.43 | 15 | -1.98 | -2.96 |
| 28 | -4.26 | -4.46 | 22 | -2.10 | -2.26 |
| Feb. 4 | -3.73 | -4.35 | 29 | -1.95 | -2.42 |
| 11 | -3.50 | -3.73 | Aug. 5 | -2.03 | -2.28 |
| Mar. 4 | -3.66 | -3.93 | 12 | -1.63 | -2.04 |
| 11 | -3.55 | -3.88 | 19 | -1.57 | -1.87 |
| 18 | -3.60 | -3.86 | Sept. 23 | +0.07 | -.68 |
| 25 | -3.56 | -3.91 | 30 | +0.44 | -.09 |
| Apr. 1 | -3.79 | -4.03 | Oct. 7 | +1.51 | +0.44 |
| 8 | -3.51 | -4.03 | 14 | +2.76 | +1.51 |
| 15 | -3.34 | -3.98 | 21 | +2.70 | +2.28 |
| 22 | -3.70 | -4.37 | 28 | +2.28 | +2.08 |
| 29 | -4.37 | -4.57 | Nov. 4 | +2.13 | +1.93 |
| May 6 | -3.45 | -4.53 | 11 | +1.96 | +1.54 |
| 13 | -3.38 | -3.69 | 18 | +1.54 | +0.99 |
| 20 | -3.69 | -4.27 | 25 | +0.99 | +0.58 |
| 27 | -4.09 | -4.31 | Dec. 2 | +0.79 | +0.48 |
| June 3 | -3.42 | -4.21 | 9 | +0.48 | -.03 |
| 10 | -1.66 | -3.78 | 16 | -.03 | -.37 |
| 17 | -1.68 | -2.80 | 23 | -.15 | -.54 |
| 24 | -2.31 | -2.76 | 30 | -.54 | -.83 |

G4 (*1017, p. 82; 1024, p. 30; 1072, p. 40). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 53 S., R. 40 E. Well destroyed; no measurements made in 1947.

G5 (*1017, p. 83; 1024, p. 31; 1072, p. 40). Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Jan. 29 | 3.70 | Apr. 29 | 3.83 | June 30 | 2.05 | Aug. 29 | 1.09 |
| Feb. 26 | 3.06 | May 29 | 3.32 | July 30 | 1.38 | Sept. 30 | a 1.10 |
| Mar. 31 | 3.28 | | | | | | |

a Above land-surface datum.

G6 (*1017, p. 84; 1024, p. 31; 1072, p. 40). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|---------|------|----------|------|
| Jan. 29 | 6.78 | Apr. 29 | 6.48 | June 30 | 4.72 | Aug. 29 | 4.72 |
| Feb. 26 | 5.80 | May 29 | 6.65 | July 30 | 3.86 | Sept. 30 | 1.54 |
| Mar. 31 | 5.97 | | | | | | |

G7 (*1017, p. 85; 1024, p. 31; 1072, p. 40). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|----------|------|---------|------|
| Jan. 29 | 7.70 | Apr. 29 | 7.70 | Aug. 29 | 6.74 | Nov. 28 | 2.77 |
| Feb. 26 | 7.09 | June 30 | 6.94 | Sept. 30 | 5.02 | Dec. 31 | 6.30 |
| Mar. 31 | 7.53 | July 30 | 6.44 | Oct. 30 | 2.85 | | |

G8 (*1017, p. 85; 1024, p. 31; 1072, p. 40). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|----------|------|---------|------|
| Jan. 29 | 7.48 | Apr. 29 | 7.78 | July 30 | 5.23 | Oct. 30 | 1.53 |
| Feb. 26 | 7.01 | May 29 | 7.49 | Aug. 29 | 5.25 | Nov. 28 | 3.25 |
| Mar. 31 | 7.48 | June 30 | 6.01 | Sept. 30 | 3.62 | Dec. 31 | 4.86 |

G9 (*1017, p. 86; 1024, p. 31; 1072, p. 40). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 3, T. 54 S., R. 40 E. No measurements made in 1947.

G10 (*987, p. 24; 1017, p. 87; 1024, p. 31; 1072, p. 40). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 4, T. 54 S., R. 40 E.

High and low weekly water level, in feet with reference to land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 7 | -1.77 | -1.97 | July 22 | -0.19 | -0.57 |
| 21 | ..... | -1.96 | 29 | -.17 | -.48 |
| 28 | -1.96 | -2.16 | Aug. 5 | -.36 | -.70 |
| Feb. 4 | -2.16 | -2.28 | 12 | -.52 | -.72 |
| 11 | -2.26 | -2.32 | 19 | +.08 | -.65 |
| 18 | -1.55 | -2.26 | 26 | +.12 | -.03 |
| 25 | -1.62 | -2.05 | Sept. 2 | +.20 | +.05 |
| Mar. 4 | -1.56 | -2.06 | 9 | +.34 | +.14 |
| 11 | -1.91 | -2.19 | 16 | +.35 | +.25 |
| 18 | -2.10 | -2.24 | 23 | +.73 | +.35 |
| 25 | -2.04 | -2.36 | 30 | .... | +.73 |
| Apr. 1 | -2.30 | -2.54 | Oct. 7 | +.195 | .... |
| 8 | -2.13 | -2.55 | 14 | +.3.28 | +.1.95 |
| 15 | -1.69 | -2.63 | 21 | +.3.21 | +.2.96 |
| 22 | -1.83 | -2.32 | 28 | +.2.96 | +.2.71 |
| 29 | -2.32 | -2.75 | Nov. 4 | +.2.71 | +.2.29 |
| May 20 | -2.99 | -3.24 | 11 | +.2.29 | +.1.83 |
| 27 | -3.24 | -3.40 | 18 | +.1.83 | +.1.40 |
| June 3 | -2.42 | -3.40 | 25 | +.1.40 | +.1.11 |
| 10 | -.18 | -2.69 | Dec. 2 | +.1.19 | +.1.00 |
| 17 | -.22 | -.99 | 9 | +.1.00 | +.58 |
| 24 | -.71 | -1.45 | 16 | +.58 | +.37 |
| July 1 | -.03 | -1.48 | 23 | +.57 | +.20 |
| 8 | -.54 | -1.24 | 30 | +.20 | -.08 |
| 15 | -.14 | -.80 | | | |

G11 (*1017, p. 88; 1024, p. 32; 1072, p. 41). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, T. 54 S., R. 40 E. No measurements made in 1947.

G12 (*1017, p. 88; 1024, p. 32; 1072, p. 41). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 23, T. 53 S., R. 40 E. No measurements made in 1947.

G15 (*1017, p. 89; 1024, p. 32; 1072, p. 41). Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 5.22 | Apr. 29 | 5.40 | Aug. 29 | 3.70 | Oct. 30 | a 0.23 |
| Feb. 26 | 4.79 | May 29 | 5.05 | Sept. 30 | 1.93 | Nov. 28 | 1.70 |
| Mar. 31 | 5.28 | July 30 | 3.44 | Oct. 7 | .92 | Dec. 31 | 3.09 |

a Above land-surface datum.

G18 (*1017, p. 90; 1024, p. 32; 1072, p. 41). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7, T. 57 S., R. 40 E. No measurements made in 1947.

G23 (*1017, p. 91; 1024, p. 32; 1072, p. 41). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, T. 55 S., R. 38 E. Water levels, in feet with reference to land-surface datum, 1947: Oct. 8, -0.48; Oct. 14, +0.57.

G24 (*1017, p. 91; 1024, p. 32; 1072, p. 41). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T. 55 S., R. 38 E. Water levels, in feet with reference to land-surface datum, 1947: Oct. 8, -0.25; Oct. 14, +0.53.

G25 (*1017, p. 92; 1024, p. 32; 1072, p. 41). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 1, T. 55 S., R. 38 E. Water levels, in feet above land-surface datum, 1947: Oct. 8, 0.00; Oct. 14, 0.87.

G28 (*1017, p. 92; 1024, p. 32; 1072, p. 41). Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 34, T. 55 S., R. 38 E. Water levels, in feet with reference to land-surface datum, 1947: Feb. 3, -3.60; Feb. 10, -3.82; Oct. 8, -0.32; Oct. 14, +0.58.

G36 (*1017, p. 93; 1024, p. 32; 1072, p. 41). Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, T. 54 S., R. 40 E. Water levels, in feet above land-surface datum, 1947: Oct. 8, 0.08.

G38 (*1017, p. 93; 1024, p. 32; 1072, p. 41). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 1, T. 57 S., R. 39 E. Water levels, in feet below land-surface datum, 1947: July 15, 1.39; Oct. 7, 0.44.

G39 (*1017, p. 94; 1024, p. 32; 1072, p. 42). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, T. 54 S., R. 40 E. Water level, in feet above land-surface datum, 1947: Oct. 8, 0.34.

G66 (*1017, p. 95; 1024, p. 32; 1072, p. 42). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 29, T. 57 S., R. 38 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 0.01.

G67 (*1017, p. 95; 1024, p. 33; 1072, p. 42). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 19, T. 55 S., R. 40 E. No measurements made in 1947.

G69 (*1017, p. 96; 1024, p. 33; 1072, p. 42). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, T. 52 S., R. 39 E. No measurements made in 1947.

G70 (*1017, p. 96; 1024, p. 33; 1072, p. 42). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, T. 52 S., R. 39 E. No measurements made in 1947.

G71 (*1017, p. 97; 1024, p. 33; 1072, p. 42). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 3, T. 52 S., R. 39 E. Water level, in feet above land-surface datum, 1947: Oct. 7, 2.12.

G72 (*945, p. 39; *987, p. 25; 1017, p. 97; 1024, p. 33; 1072, p. 42). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 3, T. 52 S., R. 39 E.

High and low weekly water level, in feet with reference to land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 7 | -0.47 | -0.61 | July 8 | +0.28 | +0.18 |
| 14 | -.52 | -.86 | 15 | +.63 | +.28 |
| 21 | -.52 | -.79 | 22 | +.89 | +.63 |
| 28 | -.79 | -1.04 | 29 | +1.11 | +.89 |
| Feb. 4 | -1.04 | -1.29 | Aug. 5 | +1.25 | +1.11 |
| 11 | -1.26 | -1.60 | 12 | +1.33 | +1.21 |
| 18 | -1.14 | -1.62 | 19 | +1.60 | +1.30 |
| 25 | -1.31 | -1.63 | 26 | +1.59 | +1.54 |
| Mar. 4 | -1.20 | -1.75 | Sept. 2 | +1.54 | +1.50 |
| 11 | -1.45 | -1.79 | 9 | +1.63 | +1.51 |
| 18 | -1.25 | -1.98 | 16 | +1.62 | +1.60 |
| 25 | -1.36 | -1.72 | 23 | +1.94 | +1.31 |
| Apr. 1 | -1.59 | -2.11 | 30 | +2.24 | +1.94 |
| 8 | -2.05 | -2.27 | Oct. 7 | +2.55 | +2.22 |
| 15 | -.66 | -2.40 | 14 | +3.63 | +2.44 |
| 22 | -.79 | -1.16 | 21 | +3.24 | +3.21 |
| 29 | -1.13 | -1.80 | 28 | +3.23 | +3.05 |
| May 6 | -1.80 | -2.18 | Nov. 4 | +3.05 | +2.84 |
| 13 | -2.01 | -2.29 | 11 | +2.84 | +2.72 |
| 20 | -2.18 | -2.68 | 18 | +2.74 | +2.70 |
| 27 | -2.44 | -2.76 | 25 | +2.71 | +2.63 |
| June 3 | -.25 | -2.63 | Dec. 2 | +2.77 | +2.63 |
| 10 | -.25 | -.51 | 9 | +2.64 | +2.52 |
| 17 | -.07 | -.25 | 16 | +2.52 | +2.39 |
| 24 | +.16 | -.07 | 23 | +2.39 | +2.25 |
| July 1 | +.19 | +.15 | 30 | +2.25 | +2.07 |

G82 (*1017, p. 98; 1024, p. 33; 1072, p. 42). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T. 52 S., R. 41 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 2.77.

G83 (*1017, p. 99; 1024, p. 33; 1072, p. 42). Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T. 52 S., R. 41 E. No measurements made in 1947.

G86 (*1017, p. 100; 1024, p. 34; 1072, p. 43). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, T. 52 S., R. 41 E. Recorder removed Apr. 15.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 7 | 5.41 | 5.53 | Feb. 25 | 5.94 | 6.10 |
| 14 | 5.53 | 5.69 | Mar. 4 | 5.94 | 5.96 |
| 21 | 5.69 | 6.09 | 11 | 5.96 | 5.99 |
| 28 | 6.03 | 6.09 | 18 | 5.99 | 6.05 |
| Feb. 4 | 6.02 | 6.10 | 25 | 6.05 | 6.11 |
| 11 | 6.10 | 6.15 | Apr. 1 | 6.11 | 6.16 |
| 18 | 6.10 | 6.16 | 8 | 6.16 | 6.24 |

G103 (*1017, p. 102; 1024, p. 34; 1072, p. 43). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 34, T. 52 S., R. 41 E. Well destroyed; no measurements made in 1947.

G105 (*1017, p. 102; 1024, p. 34; 1072, p. 43). Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 52 S., R. 41 E. Water level, in feet above land-surface datum, 1947: Oct. 7, 2.17.

G107 (*1017, p. 103; 1024, p. 34; 1072, p. 43). Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18, T. 53 S., R. 42 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 7.03.

G108 (*1017, p. 104; 1024, p. 34; 1072, p. 43). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 18, T. 53 S., R. 42 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 2.93.

G109 (*1017, p. 104; 1024, p. 34; 1072, p. 43). Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T. 53 S., R. 41 E. No measurements made in 1947.

G110 (*1017, p. 105; 1024, p. 34; 1072, p. 43). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 21, T. 53 S., R. 41 E. No measurements made in 1947.

G111 (*1017, p. 105; 1024, p. 34; 1072, p. 43). Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, T. 53 S., R. 41 E. Well destroyed; measurements discontinued.

G112 (*1017, p. 106; 1024, p. 34; 1072, p. 43). Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T. 53 S., R. 41 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 9.20.

G113 (*945, p. 40; *987, p. 25; 1017, p. 107; 1024, p. 34; 1072, p. 44). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T. 53 S., R. 41 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 8.18.

G114 (*1017, p. 107; 1024, p. 35; 1072, p. 43). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 25, T. 53 S., R. 41 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 9.23.

G115 (*1017, p. 107; 1024, p. 35; 1072, p. 44). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, T. 53 S., R. 41 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 7.99.

G117 (*1017, p. 109; 1024, p. 35; 1072, p. 44). Geological Survey, U. S. Dept. of Interior. North area of sec. 38, T. 54 S., R. 41 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 4.29.

G118 (*1017, p. 109; 1024, p. 35; 1072, p. 44). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T. 53 S., R. 41 E. No measurements made in 1947.

G119 (*1017, p. 110; 1024, p. 35; 1072, p. 44). Geological Survey, U. S. Dept. of Interior. Sec. 36, T. 53 S., R. 41 E. No measurements made in 1947.

G120 (*1017, p. 110; 1024, p. 35; 1072, p. 44). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 31, T. 53 S., R. 42 E. No measurements made in 1947.

G121 (*945, p. 41; *987, p. 25; 1017, p. 111; 1024, p. 35; 1072, p. 44). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, T. 53 S., R. 41 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 3.99.

G122 (*1017, p. 111; 1024, p. 35; 1072, p. 44). Geological Survey, U. S. Dept. of Interior. Sec. 38, T. 54 S., R. 41 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 12.16.

G123 (*945, p. 41; *987, p. 26; 1017, p. 112; 1024, p. 35; 1072, p. 44). Geological Survey, U. S. Dept. of Interior. Sec. 38, T. 54 S., R. 41 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 4.22.

G158A (*1017, p. 112; 1024, p. 35; 1072, p. 44). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T. 54 S., R. 41 E. No measurements made in 1947.

G165 (*1017, p. 112; 1024, p. 35; 1072, p. 44). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 12, T. 53 S., R. 40 E. No measurements made in 1947.

G193 (*1017, p. 113; 1024, p. 35; 1072, p. 44). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 29, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 5.19 | Apr. 29 | 4.88 | July 30 | 3.71 | Oct. 30 | 1.52 |
| Feb. 26 | 4.94 | May 29 | 4.35 | Aug. 29 | 4.03 | Nov. 28 | 2.54 |
| Mar. 31 | 4.96 | June 30 | 4.16 | Sept. 30 | 2.37 | Dec. 31 | 3.96 |

G195 (*1017, p. 113; 1024, p. 35; 1072, p. 44). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 20, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 4.45 | Apr. 29 | 4.39 | July 30 | 2.71 | Oct. 30 | a 0.33 |
| Feb. 26 | 3.98 | May 29 | 3.98 | Aug. 29 | 2.94 | Nov. 28 | 1.12 |
| Mar. 31 | 4.23 | June 30 | 3.00 | Sept. 30 | 1.22 | Dec. 31 | 2.52 |

a Above land-surface datum.

G197 (*1017, p. 113; 1024, p. 36; 1072, p. 44). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 20, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 5.66 | Apr. 29 | 5.60 | July 30 | 4.36 | Oct. 30 | 1.79 |
| Feb. 26 | 5.45 | May 29 | 5.15 | Aug. 29 | 4.50 | Nov. 28 | 2.94 |
| Mar. 31 | 5.61 | June 30 | 4.50 | Sept. 30 | 2.80 | Dec. 30 | 4.15 |

G199 (*1017, p. 114; 1024, p. 36; 1072, p. 45). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 3.91 | Apr. 29 | 3.82 | July 30 | 2.55 | Nov. 28 | 0.99 |
| Feb. 26 | 3.56 | May 29 | 3.35 | Aug. 29 | 2.66 | Dec. 31 | 2.22 |
| Mar. 31 | 3.76 | June 30 | 2.77 | Sept. 30 | .99 | | |

G218 (*1024, p. 36; 1072, p. 45). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 53 S., R. 40 E. Measuring point in 1945 and 1946 reported above road bed which is 3.0 feet above land-surface datum.

High and low weekly water level, in feet with reference to land-surface datum, 1947

(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 7 | +0.07 | -0.10 | June 24 | +0.44 | +0.32 |
| 14 | -.05 | -.36 | July 1 | +.32 | +.24 |
| 21 | .00 | -.15 | 8 | +.39 | +.24 |
| 28 | -.15 | -.66 | 15 | +.73 | +.37 |
| Feb. 4 | -.66 | -1.04 | 22 | +.79 | +.70 |
| 11 | 1.04 | -1.33 | 29 | +.96 | +.78 |
| 18 | -.77 | -1.35 | Aug. 5 | +.96 | +.94 |
| 25 | -.79 | -1.17 | 12 | +1.07 | +.95 |
| Mar. 4 | -.81 | -1.21 | 19 | +1.22 | +1.07 |
| 11 | -1.03 | -1.31 | 26 | +1.33 | +1.22 |
| 18 | -1.17 | -1.43 | Sept. 2 | +1.37 | +1.33 |
| 25 | -1.25 | -1.57 | 9 | +1.49 | +1.57 |
| Apr. 1 | -1.47 | -1.85 | 16 | +1.52 | +1.49 |
| 8 | -1.67 | -1.87 | Oct. 1 | +2.87 | +2.36 |
| 15 | .64 | -1.93 | 14 | ..... | +2.87 |
| 22 | .77 | -1.24 | 21 | +3.70 | ..... |
| 29 | -1.24 | -1.83 | Nov. 18 | +2.70 | +2.47 |
| May 6 | -1.76 | -2.00 | 25 | +2.50 | +2.23 |
| 13 | -1.68 | -2.10 | Dec. 2 | +2.27 | +2.13 |
| 20 | -1.91 | -2.38 | 9 | +2.13 | +1.90 |
| 27 | -2.38 | -2.61 | 16 | +1.90 | +1.75 |
| June 3 | -.77 | -2.61 | 23 | +1.76 | +1.62 |
| 10 | +.27 | -1.24 | 30 | +1.62 | +1.42 |
| 17 | +.39 | +.27 | | | |

G231 (*1017, p. 114; 1024, p. 36; 1072, p. 45). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7, T. 55 S., R. 41 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 7.10.

G232 (*1017, p. 114; 1024, p. 36; 1072, p. 45). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T. 55 S., R. 40 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 15.45.

G235 (*1017, p. 115; 1024, p. 36; 1072, p. 45). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 11, T. 55 S., R. 40 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 1.70.

G238 (*1017, p. 115; 1024, p. 36; 1072, p. 45). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 55 S., R. 40 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 2.77.

G239 (*1017, p. 115; 1024, p. 36; 1072, p. 45). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16, T. 55 S., R. 40 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 0.33.

G254 (*1017, p. 115; 1024, p. 36; 1072, p. 45). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 32, T. 54 S., R. 41 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 12.67.

G272 (*1017, p. 116; 1024, p. 36; 1072, p. 46). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 22, T. 53 S., R. 40 E. No measurements made in 1947.

G273 (*1017, p. 116; 1024, p. 36; 1072, p. 46). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 28, T. 53 S., R. 40 E. No measurements made in 1947.

G275 (*1017, p. 117; 1024, p. 37; 1072, p. 46). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 31, T. 53 S., R. 40 E. No measurements made in 1947.

G276 (*1017, p. 117; 1024, p. 37; 1072, p. 46). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 33, T. 53 S., R. 39 E. No measurements made in 1947.

G277 (*1017, p. 117; 1024, p. 37; 1072, p. 46). Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, T. 56 S., R. 40 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 4.45.

G282 (*1017, p. 118; 1024, p. 37; 1072, p. 46). Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 5, T. 56 S., R. 49 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 2.95.

G283 (*1017, p. 118; 1024, p. 37; 1072, p. 46). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 17, T. 56 S., R. 40 E. No measurements made in 1947.

G285 (*1017, p. 118; 1024, p. 37; 1072, p. 46). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 9, T. 57 S., R. 38 E. No measurements made in 1947.

G348 (*1017, p. 118; 1024, p. 37; 1072, p. 46). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|----------|-------------|---------|-------------|
| June 30 | 2.65 | Aug. 29 | 2.14 | Nov. 28 | a 0.51 |
| July 31 | 2.02 | Sept. 30 | .00 | Dec. 31 | .97 |

a Above land-surface datum.

G349 (*1017, p. 119; 1024, p. 37; 1072, p. 46). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

G349--Continued.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 5.24 | Apr. 29 | 5.30 | Aug. 29 | 2.79 | Nov. 28 | 0.26 |
| Feb. 26 | 4.52 | May 29 | 5.17 | Sept. 30 | .53 | Dec. 31 | 1.87 |
| Mar. 31 | 4.81 | July 31 | 2.82 | | | | |

G350 (*1017, p. 119; 1024, p. 37; 1072, p. 46). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 14, T. 54 S., R. 40 E.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 7 | 4.11 | 4.31 | July 15 | 2.56 | 3.20 |
| 14 | 4.28 | 4.44 | 22 | 2.44 | 2.87 |
| 21 | 4.26 | 4.40 | 29 | 2.79 | 2.95 |
| 28 | 4.40 | 4.52 | Aug. 5 | 2.91 | 3.25 |
| Feb. 4 | 4.52 | 4.65 | 12 | 3.25 | 3.27 |
| 11 | 4.50 | 4.65 | 19 | .... | 3.24 |
| 18 | 4.22 | 4.51 | 26 | .... | 2.70 |
| 25 | 4.29 | 4.40 | Sept. 2 | 2.51 | 2.68 |
| Mar. 11 | .... | 4.52 | 9 | 2.08 | 2.53 |
| 18 | 4.52 | 4.62 | 16 | 1.74 | 2.40 |
| 25 | 4.62 | 4.71 | 23 | 1.43 | 1.78 |
| Apr. 1 | 4.71 | 4.82 | 30 | .... | 1.49 |
| 8 | 4.72 | 4.83 | Oct. 7 | .13 | .... |
| 15 | 4.40 | 4.89 | 14 | a 1.37 | .13 |
| 22 | 4.41 | 4.61 | 21 | a 1.36 | a 1.02 |
| 29 | 4.61 | 4.84 | 28 | a 1.02 | a .65 |
| May 6 | 4.83 | 4.92 | Nov. 4 | a .65 | a .08 |
| 13 | 4.86 | 4.97 | 11 | a .08 | .64 |
| 20 | 4.97 | 5.12 | 18 | .64 | 1.41 |
| 27 | 5.12 | 5.27 | 25 | 1.28 | 1.77 |
| June 3 | 4.67 | 5.27 | Dec. 2 | 1.45 | 1.86 |
| 10 | 3.27 | 4.67 | 9 | 1.86 | 2.32 |
| 17 | 2.95 | 3.32 | 16 | 2.31 | 2.46 |
| 24 | 2.87 | 3.48 | 23 | 2.35 | 2.54 |
| July 1 | 3.04 | 3.52 | 30 | 2.54 | 2.86 |
| 8 | 3.30 | 3.52 | | | |

a Above land-surface datum.

G351 (*1017, p. 119; 1024, p. 38; 1072, p. 47). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 28, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 5.60 | Apr. 29 | 5.58 | July 30 | 4.33 | Oct. 30 | 1.83 |
| Feb. 26 | 5.35 | May 29 | 5.24 | Aug. 29 | 4.50 | Nov. 28 | 2.94 |
| Mar. 31 | 5.70 | June 30 | 4.46 | Sept. 30 | 2.71 | Dec. 31 | 4.06 |

G352 (*1017, p. 120; 1024, p. 38; 1072, p. 47). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 28, T. 53 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: Jan. 29, 4.34; Feb. 26, 4.26. Well destroyed, measurements discontinued Mar. 31.

G353 (*1017, p. 120; 1024, p. 38; 1072, p. 47). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 29, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 4.78 | Apr. 29 | 4.71 | July 30 | 3.60 | Oct. 30 | 1.31 |
| Feb. 26 | 4.69 | May 29 | 4.25 | Aug. 29 | 3.64 | Nov. 28 | 2.21 |
| Mar. 31 | 4.80 | June 30 | 3.75 | Sept. 30 | 2.01 | Dec. 31 | 3.85 |

G354 (*1017, p. 120; 1024, p. 38; 1072, p. 47). Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 5.58 | Apr. 29 | 5.58 | July 30 | 4.29 | Oct. 30 | 1.38 |
| Feb. 26 | 5.24 | May 29 | 5.12 | Aug. 29 | 4.42 | Nov. 28 | 2.74 |
| Mar. 31 | 5.50 | June 30 | 4.54 | Sept. 30 | 2.76 | Dec. 31 | 3.92 |

G355 (*1017, p. 120; 1024, p. 38; 1072, p. 47). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 3.53 | Apr. 29 | 3.45 | July 30 | 2.08 | Oct. 30 | a 0.95 |
| Feb. 26 | 3.12 | May 29 | 3.01 | Aug. 29 | 2.23 | Nov. 28 | .50 |
| Mar. 31 | 3.36 | June 30 | 2.33 | Sept. 30 | .55 | Dec. 31 | 1.78 |

a Above land-surface datum.

G356 (*1017, p. 120; 1024, p. 38; 1072, p. 47). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Jan. 29 | 5.38 | Apr. 29 | 5.28 | July 30 | 4.00 | Oct. 30 | 1.25 |
|---------|------|---------|------|----------|------|---------|------|
| Feb. 26 | 5.01 | May 29 | 4.76 | Aug. 29 | 4.03 | Nov. 28 | 2.48 |
| Mar. 31 | 5.15 | June 30 | 4.23 | Sept. 30 | 2.41 | Dec. 31 | 3.70 |

G357 (*1024, p. 39; 1072, p. 47). Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| Jan. 29 | 4.60 | Apr. 29 | 4.28 | July 30 | 1.90 | Nov. 28 | a 0.35 |
|---------|------|---------|------|----------|------|---------|--------|
| Feb. 26 | 3.77 | May 29 | 4.01 | Aug. 29 | 2.13 | Dec. 31 | 1.62 |
| Mar. 31 | 3.98 | June 30 | 2.39 | Sept. 30 | .21 | | |

a Above land-surface datum.

G431. Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 20, T. 54 S., R. 41 E., southwest corner of LeJeune Road and Bird Drive, Coral Gables. Jetted observation well, diameter 2 $\frac{1}{2}$ inches, depth 100 feet. Measuring point, top of casing, 0.2 foot above land-surface datum.

Water level, in feet below land-surface datum, 1946-47

| Date | Water level | Date | Water level | Date | Water level |
|--------------|-------------|---------------|-------------|--------------|-------------|
| Apr. 2, 1946 | 11.24 | Dec. 4, 1946 | 10.37 | May 26, 1947 | 11.13 |
| May 1 | 11.25 | 27 | 10.72 | July 1 | 10.50 |
| June 3 | 10.76 | Jan. 27, 1947 | 11.47 | 29 | 10.49 |
| July 1 | 10.97 | Mar. 4 | 11.33 | Sept. 2 | 10.80 |
| Aug. 30 | 10.45 | Apr. 2 | 11.39 | Oct. 2 | 9.20 |
| Oct. 8 | 10.18 | May 5 | 11.02 | 29 | 9.59 |
| 29 | 10.83 | | | | |

G432. Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 19, T. 54 S., R. 41 E., northwest corner of Blue Road and Alhambra Circle, Coral Gables. Jetted observation well, diameter 2 $\frac{1}{2}$ inches, depth 99.5 feet. Measuring point, top of casing, at land-surface datum.

Water level, in feet below land-surface datum, 1946-47

| | | | | | |
|--------------|-------|---------------|-------|-------------|-------|
| Apr. 1, 1946 | 10.75 | Oct. 29, 1946 | 9.77 | May 5, 1947 | 10.55 |
| May 1 | 10.51 | Dec. 4 | 9.78 | 26 | 10.56 |
| June 3 | 9.98 | 27 | 10.13 | July 1 | 9.65 |
| July 1 | 10.11 | Jan. 27, 1947 | 10.66 | 29 | 9.59 |
| Aug. 30 | 9.26 | Mar. 4 | 10.73 | Sept. 2 | 9.86 |
| Oct. 3, 1946 | 9.50 | Apr. 2 | 10.90 | Oct. 2 | 8.10 |

G434 (*1072, p. 48). Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Jan. 29 | 4.50 | Apr. 29 | 5.34 | July 30 | 2.52 | Sept. 30 | 0.50 |
| Feb. 26 | 4.75 | May 29 | 5.02 | 31 | 2.59 | Nov. 28 | .26 |
| Mar. 31 | 5.00 | June 30 | 3.25 | Aug. 29 | 2.45 | | |

G435 (*1072, p. 48). Geological Survey, U. S. Dept. of Interior.
SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 5.77 | Apr. 29 | 5.77 | July 30 | 3.64 | Nov. 28 | 0.68 |
| Feb. 26 | 5.12 | May 29 | 5.47 | Aug. 29 | 3.29 | Dec. 31 | 2.67 |
| Mar. 31 | 5.38 | June 30 | 3.91 | Sept. 30 | 1.25 | | |

G436 (*1072, p. 48). Geological Survey, U. S. Dept. of Interior.
SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|----------|------|---------|------|
| Jan. 29 | 5.33 | Apr. 29 | 5.88 | July 30 | 3.56 | Nov. 28 | 1.07 |
| Feb. 26 | 5.27 | May 29 | 5.55 | Aug. 29 | 3.44 | Dec. 31 | 2.71 |
| Mar. 31 | 5.47 | June 30 | 4.20 | Sept. 30 | 1.38 | | |

G437 (*1072, p. 48). Geological Survey, U. S. Dept. of Interior.
NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 13, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|---------|------|----------|--------|
| Jan. 29 | 3.42 | Apr. 29 | 3.43 | July 30 | 2.08 | Sept. 30 | a 1.10 |
| Feb. 26 | 2.93 | May 29 | 2.72 | Aug. 31 | 1.40 | Dec. 31 | .21 |
| Mar. 31 | 2.87 | June 30 | 2.28 | Aug. 29 | .66 | | |

a Above land-surface datum.

G438 (*1072, p. 48). Geological Survey, U. S. Dept. of Interior.
SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 13, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|---------|------|----------|--------|
| Jan. 29 | 4.36 | Apr. 29 | 4.47 | July 30 | 1.45 | Sept. 30 | a 0.13 |
| Feb. 26 | 3.78 | May 29 | 3.95 | Aug. 31 | 2.23 | Nov. 28 | a .34 |
| Mar. 31 | 3.93 | June 30 | 2.95 | Aug. 29 | 1.71 | Dec. 31 | 1.10 |

a Above land-surface datum.

G439 (*1072, p. 48). Geological Survey, U. S. Dept. of Interior.
SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|---------|------|----------|------|
| Jan. 29 | 4.92 | Apr. 29 | 5.10 | July 30 | 2.85 | Sept. 30 | 0.00 |
| Feb. 26 | 4.26 | May 29 | 4.82 | Aug. 29 | 2.55 | Dec. 31 | 1.35 |
| Mar. 31 | 4.75 | June 30 | 3.56 | | | | |

G440 (*1072, p. 49). Geological Survey, U. S. Dept. of Interior.
SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|---------|------|----------|------|
| Jan. 29 | 5.67 | Apr. 29 | 5.73 | July 30 | 3.51 | Sept. 30 | 0.96 |
| Feb. 26 | 5.04 | May 29 | 5.32 | Aug. 29 | 2.96 | Dec. 31 | 2.17 |
| Mar. 31 | 5.24 | June 30 | 4.30 | | | | |

G441 (*1072, p. 49). Geological Survey, U. S. Dept. of Interior.
SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|----------|------|---------|------|
| Jan. 29 | 8.10 | June 30 | 5.20 | Sept. 30 | 3.65 | Nov. 29 | 3.22 |
| Feb. 26 | 7.40 | July 30 | 5.40 | Oct. 30 | 1.18 | Dec. 31 | 5.07 |
| Mar. 31 | 7.69 | Aug. 29 | 5.40 | | | | |

G447. Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, T. 55 S., R. 39 E., 108 feet east of Lindgren Road and 3 miles north of Coral Reef Drive. Jetted observation well, diameter 2 $\frac{1}{2}$ inches, depth 101.3 feet. Measuring point, top of casing, 0.7 foot above land-surface datum, and 11.12 feet above mean sea level, 1929 adjustment.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|---------|------|---------|------|
| Jan. 10 | 5.09 | Feb. 25 | 5.46 | June 25 | 3.47 | Sept. 3 | 2.87 |
| 27 | 5.20 | Mar. 19 | 6.02 | July 31 | 2.22 | Oct. .7 | 1.98 |
| Feb. 10 | 5.56 | May 5 | 6.72 | | | | |

G448. Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 55 S., R. 40 E., 15 feet east of Snapper Creek Road extended and 1.8 miles north of Coral Reef Drive. Jetted observation well, diameter 2 $\frac{1}{2}$ inches, depth 93.2 feet. Measuring point, top of casing, 0.7 foot above land-surface datum and 7.68 feet above mean sea level, 1929 adjustment.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|-----------|-------------|----------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 10 | 3.15 | Feb. 25 | 3.46 | June 25 | 0.30 | Sept. 3 | 0.25 |
| 27 | 2.95 | Mar. 9 | 3.99 | July 31 a | .64 | Oct. 7 a | .69 |
| Feb. 10 | 3.45 | May 5 | 4.56 | | | | |

a Above land-surface datum.

G449. Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 22, T. 55 S., R. 40 E., 0.5 mile east of U. S. Highway 1 and 15 feet north of Coral Reef Drive. Jetted observation well, diameter 2 $\frac{1}{2}$ inches, depth 105.1 feet. Measuring point, top of casing, 0.37 foot above land-surface datum and 13.50 feet above mean sea level, 1929 adjustment.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 10 | 9.44 | Feb. 25 | 10.15 | June 25 | 6.78 | Sept. 3 | 7.01 |
| 27 | 9.59 | Mar. 19 | 10.73 | July 31 | 5.91 | Oct. 7 | 5.52 |
| Feb. 10 | 10.04 | May 5 | 10.67 | | | | |

G450. Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 27, T. 55 S., R. 40 E., on Kuhn Road, 0.5 mile south of Coral Reef Drive. Jetted observation well, diameter 2 $\frac{1}{2}$ inches, depth 104.2 feet. Measuring point, top of casing, 1.23 feet above land-surface datum and 10.44 feet above mean sea level, 1929 adjustment.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 10 | 5.53 | Mar. 19 | 6.66 | June 25 | 2.92 | Oct. 6 | 1.74 |
| 27 | 6.73 | Apr. 3 | 6.95 | July 2 | 3.03 | 7 | 1.82 |
| Feb. 10 | 6.09 | May 5 | 6.55 | 31 | 2.12 | 28 | 2.09 |
| 25 | 6.15 | 27 | 7.29 | Sept. 3 | 3.34 | Nov. 26 | 3.11 |
| Mar. 3 | 6.29 | | | | | | |

G475. Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 10, T. 56 N., R. 40 E., 0.15 mile south of Ingraham Highway and 19 feet south of Tenella Boulevard. Jetted observation well, diameter 2 $\frac{1}{2}$ inches, depth 22.0 feet. Measuring point, top of casing, 2.3 feet above land-surface datum and 6.57 feet above mean sea level, 1929 adjustment.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|----------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 27 | 1.85 | Mar. 19 | 2.75 | June 25 | 0.54 | Oct. 6 a | 0.23 |
| Feb. 10 | 2.26 | Apr. 3 | 2.55 | July 2 | .78 | 7 a | .15 |
| 25 | 2.14 | May 5 | 3.31 | 31 | .69 | 28 | .34 |
| Mar. 3 | 2.31 | 27 | 3.23 | Sept. 3 | 1.14 | Nov. 25 | .92 |

a Above land-surface datum.

G476. Geological Survey, U. S. Dept. of Interior. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, T. 55 S., R. 40 E., intersection of Cutler Road and Richmond Drive, Cutler. Drilled observation well, diameter 6 inches, depth 23.5 feet. Measuring point, top of casing, 2.7 feet above land-surface datum and 16.85 feet above mean sea level, 1929 adjustment. Water-stage recorder installed Jan. 14, 1947. Water levels affected by tides in Biscayne Bay.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 21 | 10.90 | 11.36 | Mar. 25 | 10.93 | 11.52 |
| 28 | 10.73 | 11.52 | Apr. 1 | 11.13 | 11.78 |
| Feb. 4 | 10.64 | 11.45 | 8 | 10.95 | 11.62 |
| 11 | 10.68 | 11.46 | 15 | 11.07 | 11.60 |
| 18 | 10.82 | 11.31 | 22 | 10.19 | 11.51 |
| 25 | 10.61 | 11.19 | 29 | 10.50 | 11.26 |
| Mar. 4 | 10.88 | 11.47 | May 6 | 10.83 | 11.33 |
| 11 | 10.88 | 11.44 | 27 | 10.65 | 11.30 |
| 18 | 10.90 | 11.52 | June 3 | 10.14 | 11.09 |

G476--Continued.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| June 10 | 10.14 | 10.60 | Sept. 23 | 9.50 | 10.43 |
| 17 | 9.61 | 10.22 | 30 | 8.10 | 9.80 |
| 24 | 9.19 | 10.05 | Oct. 7 | 7.85 | 8.62 |
| July 1 | 9.25 | 9.98 | 14 | 7.55 | .... |
| 8 | 9.09 | 10.15 | 28 | 8.79 | 9.15 |
| 15 | 9.05 | 9.53 | Nov. 4 | 8.87 | 9.39 |
| 22 | 8.90 | 9.26 | 11 | 9.01 | 9.45 |
| 29 | 8.94 | 9.34 | 18 | 9.17 | 9.94 |
| Aug. 5 | 8.64 | 9.53 | 25 | 9.41 | 9.90 |
| 12 | 8.51 | 9.43 | Dec. 2 | 9.02 | 9.84 |
| 19 | 9.30 | 9.81 | 9 | 9.15 | 10.18 |
| 26 | 9.16 | 9.83 | 16 | 9.87 | 10.42 |
| Sept. 2 | 9.64 | 10.15 | 23 | 9.91 | 10.40 |
| 9 | 9.85 | 10.49 | 30 | 9.62 | 10.42 |
| 16 | 9.88 | 10.54 | | | |

G490. Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 29, T. 53 S., R. 41 E., west side LeJeune Road and 500 feet south of N. W. 36th Street. Drilled observation well, diameter 6 inches, depth 23 feet. Measuring point, top of casing, 1.5 feet above land-surface datum and 6.90 feet above mean sea level, 1929 adjustment. Water-stage recorder installed Jan. 16, 1947. Water levels affected by tides in Miami Canal.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 28 | 4.45 | 4.99 | July 22 | 3.05 | 3.68 |
| Feb. 4 | 4.10 | 4.62 | 29 | 3.27 | 3.78 |
| 11 | 4.10 | 4.47 | Aug. 5 | 3.40 | 3.78 |
| 18 | 4.07 | 4.45 | 12 | 3.06 | 3.64 |
| 25 | 3.92 | 4.28 | 19 | 3.32 | 3.80 |
| Mar. 4 | 4.02 | 4.47 | 26 | 3.20 | 3.67 |
| 11 | 4.11 | 4.40 | Sept. 2 | 3.22 | 3.63 |
| 18 | 4.20 | 4.55 | 9 | 2.94 | 3.51 |
| 25 | 4.20 | 4.53 | 16 | 2.85 | 3.44 |
| Apr. 1 | 4.25 | 4.62 | 30 | 1.77 | 2.90 |
| 8 | 4.13 | 4.54 | Oct. 7 | .84 | 2.02 |
| 29 | 4.40 | 4.79 | 14 | a .87 | 1.61 |
| May 6 | 3.54 | 4.57 | 21 | a .27 | .37 |
| 13 | 3.94 | 4.20 | 28 | .32 | .81 |
| 20 | 4.00 | 4.32 | Nov. 4 | .60 | 1.29 |
| 27 | 4.11 | 4.41 | 11 | 1.13 | 1.55 |
| June 3 | 3.63 | 4.32 | 18 | 1.36 | 1.98 |
| 10 | 2.78 | 4.27 | 25 | 1.85 | 2.03 |
| 17 | 2.85 | 3.65 | Dec. 2 | 1.59 | 2.16 |
| 24 | 3.04 | 3.59 | 9 | 1.85 | 2.59 |
| July 1 | 3.28 | 3.90 | 16 | 2.40 | 2.82 |
| 8 | 3.50 | 3.92 | 23 | 2.54 | 2.91 |
| 15 | 2.38 | 3.82 | 30 | 2.66 | 3.11 |

a Above land-surface datum.

31a (*907, p. 31; 937, p. 25; 945, p. 42; 1017, p. 120; 1024, p. 39; 1072, p. 49). City of Miami. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|
| Jan. 29 | 8.44 | Apr. 29 | 8.21 | July 30 | 5.10 |
| Feb. 26 | 7.24 | May 29 | 7.24 | Aug. 29 | 5.38 |
| Mar. 31 | 8.07 | June 30 | 5.76 | Sept. 30 | 3.72 |
| | | | | Dec. 31 | 5.28 |

S2A (*1017, p. 120; 1024, p. 39; 1072, p. 49). City of Miami.
NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 29 | 9.21 | Apr. 29 | 9.06 | July 30 | 6.17 | Oct. 30 | 2.60 |
| Feb. 26 | 8.45 | May 29 | 8.41 | Aug. 29 | 6.41 | Nov. 28 | 4.59 |
| Mar. 31 | 8.90 | June 30 | 6.63 | Sept. 30 | 4.86 | Dec. 31 | 6.48 |

S3A (*1017, p. 121; 1024, p. 39; 1072, p. 49). City of Miami.
NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 29 | 10.16 | Apr. 29 | 10.07 | July 30 | 7.12 | Oct. 30 | 2.48 |
| Feb. 26 | 9.47 | May 29 | 8.64 | Aug. 29 | 6.57 | Nov. 28 | 4.79 |
| Mar. 31 | 9.05 | June 30 | 7.51 | Sept. 30 | 5.07 | Dec. 31 | 7.35 |

S4A (*1017, p. 121; 1024, p. 39; 1072, p. 49). City of Miami.
SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 29 | 8.53 | Apr. 29 | 8.43 | July 30 | 5.89 | Oct. 30 | 2.05 |
| Feb. 26 | 7.98 | May 29 | 7.94 | Aug. 29 | 5.98 | Nov. 28 | 3.90 |
| Mar. 31 | 8.10 | June 30 | 6.08 | Sept. 30 | 4.36 | Dec. 31 | 5.98 |

S5A (*1017, p. 121; 1024, p. 39; 1072, p. 49). City of Miami.
NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 29 | 9.08 | Apr. 29 | 9.33 | July 30 | 6.26 | Oct. 30 | 2.26 |
| Feb. 26 | 8.50 | May 29 | 8.12 | Aug. 29 | 5.77 | Nov. 28 | 4.35 |
| Mar. 31 | 9.00 | June 30 | 6.30 | Sept. 30 | 4.69 | Dec. 31 | 6.29 |

S6A (*1017, p. 122; 1024, p. 39; 1072, p. 49). City of Miami.
SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 29 | 8.70 | Apr. 29 | 9.31 | July 30 | 6.36 | Oct. 30 | 2.23 |
| Feb. 26 | 8.31 | May 29 | 8.58 | Aug. 29 | 5.77 | Nov. 28 | 3.87 |
| Mar. 31 | 9.50 | June 30 | 7.01 | Sept. 30 | 4.26 | Dec. 31 | 5.84 |

S7A (*1017, p. 122; 1024, p. 39; 1072, p. 50). City of Miami.
SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 29 | 8.05 | Apr. 29 | 9.32 | Aug. 29 | 5.55 | Nov. 28 | 3.51 |
| Feb. 26 | 8.39 | May 29 | 8.95 | Sept. 30 | 4.71 | Dec. 31 | 5.29 |
| Mar. 31 | 9.09 | July 30 | 5.60 | Oct. 30 | 1.90 | | |

S8A (*1017, p. 122; 1024, p. 40; 1072, p. 50). City of Miami.
SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 24, T. 53 S., R. 40 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 29 | 7.27 | Apr. 29 | 7.95 | July 30 | 4.74 | Oct. 30 | 1.04 |
| Feb. 26 | 6.84 | May 29 | 7.03 | Aug. 29 | 4.85 | Nov. 28 | 3.02 |
| Mar. 31 | 7.51 | June 30 | 5.27 | Sept. 30 | 3.49 | Dec. 31 | 4.89 |

S14A (*1017, p. 122; 1024, p. 40; 1072, p. 50). City of Miami.
SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T. 53 S., R. 40 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 29 | 7.38 | Apr. 29 | 6.73 | July 30 | 4.33 | Oct. 30 | 0.10 |
| Feb. 26 | 5.74 | May 29 | 6.45 | Aug. 29 | 4.62 | Nov. 28 | 1.60 |
| Mar. 31 | 6.40 | June 30 | 5.04 | Sept. 30 | 2.37 | Dec. 31 | 3.84 |

S15A (*1017, p. 123; 1024, p. 40; 1072, p. 50). City of Miami.
SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T. 53 S., R. 40 E.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 29 | 5.92 | Apr. 29 | 5.71 | July 30 | 3.35 | Oct. 30 | 0.61 |
| Feb. 26 | 5.30 | May 29 | 5.66 | Aug. 29 | 1.27 | Nov. 28 | 1.14 |
| Mar. 31 | 5.63 | June 30 | 3.85 | Sept. 30 | .98 | Dec. 31 | .60 |

a Above land-surface datum.

S16A (*1017, p. 123; 1024, p. 40; 1072, p. 50). City of Miami.
SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 6.24 | Apr. 29 | 6.38 | July 30 | 3.47 | Oct. 30 | a 1.06 |
| Feb. 26 | 5.40 | May 29 | 6.27 | Aug. 29 | 4.30 | Nov. 28 | .45 |
| Mar. 31 | 5.78 | June 30 | 4.17 | Sept. 30 | .81 | Dec. 31 | 2.80 |

a Above land-surface datum.

S17A (*1017, p. 123; 1024, p. 40; 1072, p. 50). City of Miami.
SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T. 53 S., R. 40 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 6.31 | Apr. 29 | 5.77 | July 30 | 3.34 | Oct. 30 | a 1.38 |
| Feb. 26 | 5.32 | May 29 | 5.91 | Aug. 29 | 4.21 | Nov. 28 | .76 |
| Mar. 31 | 5.36 | June 30 | 4.20 | Sept. 30 | 1.25 | Dec. 31 | 3.04 |

a Above land-surface datum.

S18 (*886, p. 66; *907, p. 28; 937, p. 25; 945, p. 42; *987, p. 26; 1017, p. 123; 1024, p. 40; 1072, p. 50). Model Dairy. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 52 S., R. 41 E.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 7 | 7.29 | 7.47 | July 8 | 5.97 | 6.17 |
| 14 | 7.47 | 7.57 | 15 | .... | 6.17 |
| 21 | 7.52 | 7.68 | 22 | .... | 5.35 |
| 28 | 7.68 | 7.75 | 29 | 5.35 | 5.60 |
| Feb. 4 | 7.60 | 7.85 | Aug. 5 | 5.60 | 5.99 |
| 11 | 7.59 | 7.85 | 12 | 5.35 | 5.79 |
| 18 | 7.65 | 7.87 | 19 | 5.59 | 6.11 |
| 25 | 7.67 | 7.74 | 26 | 5.57 | 5.97 |
| Mar. 4 | 7.62 | 7.77 | Sept. 2 | 5.61 | 6.15 |
| 11 | 7.62 | 7.77 | 9 | 5.68 | 5.92 |
| 18 | 7.77 | 7.93 | 16 | 5.92 | 6.19 |
| 25 | 7.91 | 8.00 | 23 | .... | 6.19 |
| Apr. 1 | 8.00 | 8.11 | 30 | .... | 5.44 |
| 8 | 8.11 | 8.19 | Oct. 7 | 3.52 | 4.41 |
| 15 | .... | 8.22 | 14 | 1.58 | 3.64 |
| 29 | .... | 7.94 | 21 | 1.58 | 2.14 |
| May 6 | 7.94 | 8.02 | 28 | 2.10 | 2.50 |
| 13 | 7.98 | 8.05 | Nov. 4 | 2.50 | 3.04 |
| 20 | 8.00 | 8.08 | Nov 11 | 3.04 | 3.68 |
| 27 | 8.08 | 8.15 | 25 | 4.18 | 4.65 |
| June 3 | .... | 8.15 | Dec. 2 | 4.30 | 4.76 |
| 10 | 6.00 | 7.24 | 9 | 4.55 | 5.12 |
| 17 | 5.61 | 6.00 | 16 | 5.12 | 5.47 |
| 24 | 4.97 | 5.65 | 23 | 5.34 | 5.56 |
| July 1 | 5.54 | 5.97 | 30 | 5.56 | 5.83 |

S19 (*886, p. 66; *907, p. 29; 937, p. 26; 945, p. 43; *987, p. 26; 1017, p. 124; 1024, p. 41; 1072, p. 51). NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T. 53 S., R. 40 E.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 7 | 6.09 | 6.53 | Mar. 11 | 6.28 | 6.45 |
| 14 | 6.53 | 6.64 | 18 | 6.29 | 6.44 |
| 21 | 6.62 | 6.99 | 25 | 6.44 | 6.67 |
| 28 | 6.72 | 7.01 | Apr. 1 | 6.62 | 6.81 |
| Feb. 4 | 6.57 | 6.72 | 8 | 6.17 | 6.82 |
| 11 | 6.28 | 6.58 | 15 | 5.77 | 6.40 |
| 18 | 6.24 | 6.32 | 22 | 5.98 | 6.66 |
| 25 | 6.25 | 6.37 | 29 | 6.66 | 7.07 |
| Mar. 4 | 6.29 | 6.45 | May 6 | 5.52 | 7.09 |

S19--Continued.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| May 13 | 5.91 | 6.33 | Sept. 16 | 4.06 | 4.36 |
| 20 | 6.06 | 6.59 | 23 | 3.10 | 4.22 |
| 27 | 6.59 | 6.90 | 30 | 2.67 | 3.44 |
| June 3 | 6.10 | 6.92 | Oct. 7 | 1.53 | 2.90 |
| 10 | 4.43 | 6.49 | 14 | a .39 | 1.96 |
| 17 | 4.26 | 4.66 | 21 | a .21 | .20 |
| July 1 | .... | 5.42 | 28 | .17 | .55 |
| 8 | 5.39 | 5.58 | Nov. 4 | .40 | 1.48 |
| 15 | 3.91 | 5.47 | 11 | 1.48 | 1.72 |
| 22 | 4.13 | 4.84 | 18 | 1.70 | 2.24 |
| 29 | 4.30 | 4.88 | 25 | 2.19 | 2.48 |
| Aug. 5 | 4.40 | 5.02 | Dec. 2 | 1.96 | 2.57 |
| 12 | 4.56 | 5.04 | 9 | 2.52 | 3.16 |
| 19 | 4.62 | 4.87 | 16 | 3.16 | 3.62 |
| 26 | 4.53 | 4.66 | 23 | 3.50 | 3.70 |
| Sept. 2 | 4.18 | 4.76 | 30 | 3.70 | 4.06 |
| 9 | 3.84 | 4.47 | | | |

a Above land-surface datum.

S63 (*1017, p. 124; 1024, p. 41; 1072, p. 51). Graham's Dairy.
SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 30, T. 52 S., R. 40 E. No measurements made in 1947.S68 (*1017, p. 125; 1024, p. 42; 1072, p. 51). City of Miami.
SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 19, T. 53 S., R. 41 E.High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 7 | 6.07 | 6.24 | July 8 | 4.92 | 5.46 |
| 14 | 6.10 | 6.60 | 15 | 3.46 | 5.45 |
| 21 | 6.22 | 6.66 | 22 | 3.95 | 4.78 |
| 28 | 6.60 | 7.20 | 29 | 4.07 | 4.82 |
| Feb. 4 | 6.51 | 7.17 | Aug. 5 | 4.30 | 4.97 |
| 11 | 5.99 | 6.73 | 12 | 4.22 | 4.67 |
| 18 | 5.97 | 6.43 | 19 | 4.52 | 5.11 |
| 25 | 6.23 | 6.62 | 26 | 4.29 | 4.90 |
| Mar. 4 | 6.17 | 6.45 | Sept. 2 | 4.07 | 4.87 |
| 11 | 6.28 | 6.70 | 9 | 3.68 | 5.05 |
| 18 | 6.18 | 6.81 | 16 | 3.94 | 4.47 |
| 25 | 6.69 | 6.86 | 23 | 2.76 | 4.47 |
| Apr. 1 | .... | 6.85 | 30 | 2.80 | 3.47 |
| 8 | 6.04 | 6.86 | Oct. 7 | 1.40 | 3.00 |
| 15 | 5.71 | 6.31 | 14 | a .61 | 2.12 |
| 22 | 5.86 | 6.71 | 21 | a .59 | a .04 |
| 29 | 6.66 | 7.08 | 28 | a .20 | .71 |
| May 6 | 5.42 | 7.08 | Nov. 4 | .58 | 1.48 |
| 13 | 5.73 | 6.35 | 11 | 1.48 | 2.08 |
| 20 | .... | 6.81 | 18 | 1.91 | 2.32 |
| 27 | 6.39 | 7.02 | 25 | 2.20 | 2.71 |
| June 3 | 5.54 | 6.71 | Dec. 9 | 2.48 | 3.26 |
| 10 | 4.50 | 6.16 | 16 | 3.26 | 3.79 |
| 17 | 4.00 | 4.60 | 23 | 3.45 | 4.00 |
| 24 | 4.06 | 4.82 | 30 | 3.73 | 4.45 |
| July 1 | 4.58 | 5.22 | | | |

a Above land-surface datum.

S84 (*1017, p. 127; 1024, p. 42; 1072, p. 52). Coca Cola Bottling Co.
SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 25, T. 53 S., R. 41 E. Water levels, in feet below land-surface datum, 1947: Jan. 14, 14.76; Oct. 8, 9.86.S171 (*945, p. 43; *987, p. 27; 1017, p. 128; 1024, p. 42; 1072, p. 52). City of Miami.
NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 20, T. 54 S., R. 41 E. No measurements made in 1947.

S182 (*945, pp. 44-45; *987, p. 27; 1017, p. 128; 1024, p. 42; 1072, p. 52). International Fruit Co. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 5, T. 56 S., R. 40 E.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 7 | 6.64 | 6.96 | July 8 | 3.71 | 4.43 |
| 14 | 6.76 | 7.11 | 15 | 1.57 | 3.78 |
| 21 | 6.63 | 6.80 | 22 | 1.85 | 2.91 |
| 28 | 6.80 | 7.16 | 29 | 2.55 | 3.20 |
| Feb. 4 | 7.16 | 7.44 | Aug. 5 | 3.20 | 3.68 |
| 11 | 7.44 | 7.74 | 12 | 3.52 | 3.98 |
| 18 | 7.45 | 7.78 | 19 | 3.36 | 4.43 |
| 25 | 7.54 | 7.77 | 26 | 3.41 | 4.06 |
| Mar. 4 | 7.77 | 7.96 | Sept. 2 | 4.06 | 4.54 |
| 11 | 7.96 | 8.14 | 9 | 4.32 | 4.62 |
| 18 | 8.14 | 8.32 | 16 | 4.58 | 4.84 |
| 25 | 8.32 | 8.51 | 23 | 3.64 | 4.79 |
| Apr. 1 | 8.51 | 8.73 | 30 | 3.15 | 3.84 |
| 8 | 8.73 | 8.81 | Oct. 7 | 3.07 | .... |
| 15 | 8.68 | 8.86 | 14 | 2.30 | 3.30 |
| 22 | 7.91 | 8.68 | 21 | 2.57 | 3.15 |
| 29 | 7.95 | 8.28 | 28 | 3.15 | 3.30 |
| May 6 | 8.28 | 8.67 | Nov. 4 | 3.30 | 3.75 |
| 13 | 8.63 | 8.78 | 11 | 3.75 | 4.19 |
| 20 | 8.67 | 8.96 | 18 | 4.19 | 4.47 |
| 27 | 8.96 | 9.20 | 25 | 4.34 | 4.58 |
| June 3 | 6.78 | 9.22 | Dec. 2 | 4.00 | 4.64 |
| 10 | 5.43 | 6.83 | 9 | 4.24 | 4.72 |
| 17 | 4.23 | 5.43 | 16 | 4.72 | 5.13 |
| 24 | 3.63 | 4.24 | 23 | 4.93 | 5.23 |
| July 1 | 4.06 | 4.33 | 30 | 5.02 | 5.39 |

S183 (*1017, p. 128; 1024, p. 43; 1072, p. 52). E. L. Cotton. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 4, T. 55 S., R. 40 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 6.11.

S185 (*1017, p. 129; 1024, p. 43; 1072, p. 52). Judge Price. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 1, T. 56 S., R. 39 E. Water level, in feet below land-surface datum, 1947: Oct. 7, 3.01.

S186 (*1017, p. 130; 1024, p. 43; 1072, p. 52). Mr. Wellbourn. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, T. 56 S., R. 38 E. Water level, in feet below land-surface datum, 1947: Oct. 8, 1.45.

S187 (*1017, p. 130; 1024, p. 43; 1072, p. 53). E. Enquist. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 34, T. 56 S., R. 38 E. Water level, in feet below land-surface datum, 1947: Oct. 8, 3.06.

S188 (*1017, p. 131; 1024, p. 43; 1072, p. 53). E. C. Byars. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 2, T. 57 S., R. 38 E. Water level, in feet below land-surface datum, 1947: Oct. 8, 4.72.

S189 (*1017, p. 131; 1024, p. 43; 1072, p. 53). Dr. C. F. Robinson. SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, T. 56 S., R. 39 E. Water level, in feet below land-surface datum, 1947: Oct. 8, 7.20.

S191 (*945, p. 45; *987, p. 27; 1017, p. 132; 1024, p. 43; 1072, p. 53). A. H. Singleton. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 19, T. 56 S., R. 39 E. Water levels, in feet below land-surface datum, 1947: July 15, 1.40; Oct. 8, 1.82.

S196 (*907, p. 33; 937, p. 26; 945, p. 46; *987, p. 27; 1017, p. 132; 1024, p. 43; 1072, p. 53). University of Florida Experiment Station.
SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 35, T. 56 S., R. 38 E.

Water level, in feet below land-surface datum, 1947.

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|------|------|------|------|-------|------|------|------|-------|------|------|------|
| 1 | 7.53 | 8.30 | 8.55 | 9.27 | 9.74 | 9.01 | 4.43 | 4.77 | 4.97 | 4.54 | 4.43 | 4.94 |
| 2 | 7.57 | 8.30 | 8.57 | 9.31 | 9.78 | 8.78 | 4.56 | 4.90 | 4.80 | 4.53 | 4.45 | 5.03 |
| 3 | 7.61 | 8.32 | 8.59 | 9.33 | 9.82 | 8.50 | 4.65 | 5.01 | 4.60 | 4.51 | 4.65 | 5.11 |
| 4 | 7.63 | 8.34 | 8.60 | 9.17 | 9.82 | 8.34 | 4.56 | 5.13 | 4.74 | 3.46 | 4.74 | 5.18 |
| 5 | 7.67 | 8.37 | 8.64 | 9.16 | 9.84 | 8.25 | 4.58 | 5.23 | 4.53 | 3.53 | 4.82 | 5.25 |
| 6 | 7.73 | 8.38 | 8.66 | 9.16 | 9.86 | 8.21 | 4.70 | 5.33 | 4.03 | 3.74 | 4.90 | 5.32 |
| 7 | 7.76 | 8.43 | 8.67 | 9.18 | 9.88 | 8.18 | 4.76 | 5.41 | 4.16 | 3.92 | 4.97 | 5.40 |
| 8 | 7.78 | 8.44 | 8.70 | 9.22 | 9.91 | 8.15 | 4.78 | 5.50 | 4.28 | 4.03 | 5.04 | 5.47 |
| 9 | 7.83 | 8.47 | 8.74 | 9.26 | 9.94 | 8.02 | 4.60 | 5.54 | 4.44 | 3.54 | 5.08 | 5.54 |
| 10 | 7.89 | 8.52 | 8.77 | 9.28 | 9.93 | 6.98 | 4.68 | 5.42 | 4.53 | 3.45 | 5.14 | 5.60 |
| 11 | 7.91 | 8.53 | 8.80 | 9.33 | 9.81 | 3.85 | 4.57 | 5.42 | 4.72 | 1.90 | 5.19 | 5.67 |
| 12 | 7.95 | 8.57 | 8.83 | 9.37 | 9.70 | 3.75 | 4.66 | 5.49 | 4.60 | .75 | 5.25 | 5.73 |
| 13 | 7.98 | 8.58 | 8.84 | 9.36 | 9.64 | 3.72 | 4.00 | 4.90 | 4.74 | 1.80 | 5.32 | 5.79 |
| 14 | 8.01 | 8.45 | 8.85 | 9.34 | 9.60 | 3.75 | 3.63 | 4.98 | 4.77 | 2.30 | 5.35 | 5.84 |
| 15 | 7.97 | 8.53 | 8.85 | 9.30 | 9.58 | 3.92 | 3.80 | 5.06 | 4.85 | 2.60 | 5.40 | 5.90 |
| 16 | 7.95 | 8.28 | 8.87 | 9.33 | 9.60 | 4.11 | 4.00 | 5.18 | 4.85 | 2.85 | 5.46 | 5.94 |
| 17 | 7.98 | 8.24 | 8.90 | 9.37 | 9.63 | 3.98 | 3.75 | 5.25 | 4.86 | 3.10 | 5.48 | 5.99 |
| 18 | 8.00 | 8.25 | 8.92 | 9.40 | 9.66 | 2.45 | 3.72 | 5.34 | 4.61 | 3.32 | 5.34 | 6.04 |
| 19 | 8.02 | 8.27 | 8.91 | 9.42 | 9.70 | 2.93 | 3.70 | 3.45 | .... | 3.47 | 5.40 | 6.07 |
| 20 | 8.02 | .... | 8.94 | 9.45 | 9.75 | 3.22 | 3.14 | 3.75 | 4.75 | 3.63 | 5.47 | 6.05 |
| 21 | 8.03 | 8.32 | 8.97 | 9.48 | 9.81 | 3.50 | 4.48 | 4.00 | 4.85 | 3.76 | 5.42 | 5.91 |
| 22 | 8.04 | 8.36 | 9.00 | 9.52 | 9.86 | 3.87 | 3.64 | 4.16 | 4.42 | 3.86 | 5.38 | 5.87 |
| 23 | 8.08 | 8.39 | 9.02 | 9.53 | 9.90 | 3.76 | 3.82 | 3.80 | 4.33 | 3.96 | 5.08 | 5.93 |
| 24 | 8.12 | 8.42 | 9.05 | 9.57 | 9.93 | 4.00 | 3.76 | 4.12 | 4.42 | 4.07 | 5.03 | 5.96 |
| 25 | 8.12 | 8.46 | 9.08 | 9.62 | 9.97 | 4.14 | 3.89 | 4.30 | 4.56 | 4.17 | 5.09 | 6.00 |
| 26 | 8.14 | 8.46 | 9.12 | 9.64 | 10.00 | 3.52 | 4.03 | 4.33 | 4.67 | 4.17 | 5.17 | 6.06 |
| 27 | 8.16 | 8.54 | 9.14 | 9.66 | 10.02 | 3.82 | 4.10 | 4.43 | 4.78 | 4.12 | 5.26 | 6.12 |
| 28 | 8.19 | 8.51 | 9.16 | 9.68 | 10.03 | 3.87 | 4.22 | 4.50 | 4.63 | 4.22 | 5.26 | 6.15 |
| 29 | 8.22 | .... | 9.17 | 9.70 | 9.91 | 4.08 | 4.37 | 4.66 | 4.57 | 4.24 | 4.85 | 6.20 |
| 30 | 8.23 | .... | 9.20 | 9.74 | 9.63 | 4.26 | 4.50 | 4.80 | 4.48 | 4.27 | 4.87 | 6.24 |
| 31 | 8.26 | .... | 9.25 | .... | 9.34 | .... | 4.64 | 4.89 | .... | 4.35 | .... | 6.28 |

S290 (*945, p. 47; *987, p. 28; 1017, p. 132; 1024, p. 44; 1072, p. 53). J. C. Kersey. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 3, T. 52 S., R. 41 E. No measurements made in 1947.

S539 (*1024, p. 44; 1072, p. 53). U. S. Dept. of Agriculture.
NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 24, T. 55 S., R. 40 E.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Date | January | | February | | March | | April | | May | | June | |
|------|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 15.99 | 16.41 | 16.47 | 16.84 | 16.36 | 16.79 | 16.59 | 17.04 | 16.27 | 16.70 | 15.88 | 16.35 |
| 2 | 15.99 | 16.38 | 16.41 | 16.88 | 16.29 | 16.76 | 16.46 | 16.95 | 16.07 | 16.72 | 15.92 | 16.42 |
| 3 | 16.12 | 16.50 | 16.19 | 16.84 | 16.46 | 16.83 | 16.43 | 16.86 | 16.15 | 16.54 | 15.93 | 16.40 |
| 4 | 16.16 | 16.58 | 16.14 | 16.64 | 16.40 | 16.85 | 16.37 | 16.84 | 16.15 | 15.57 | 15.94 | 16.43 |
| 5 | 16.24 | 16.59 | 16.22 | 16.82 | 16.30 | 16.83 | 16.32 | 16.82 | 16.25 | 16.66 | 15.97 | 16.43 |
| 6 | 16.20 | 16.70 | 16.15 | 16.88 | 16.28 | 16.76 | 16.37 | 16.89 | 16.26 | 16.70 | 15.98 | 16.42 |
| 7 | 16.18 | 16.66 | 16.06 | 16.63 | 16.20 | 16.77 | 16.43 | 16.88 | 16.22 | 16.66 | 15.96 | 16.40 |
| 8 | 16.18 | 16.71 | 16.12 | 16.71 | 16.22 | 16.72 | 16.53 | 16.97 | 16.22 | 16.63 | 15.91 | 16.32 |
| 9 | 16.16 | 16.66 | 16.32 | 16.79 | 16.30 | 16.75 | 16.52 | 16.96 | 16.16 | 16.53 | 15.93 | 16.33 |
| 10 | 16.07 | 16.40 | 16.44 | 16.94 | 16.27 | 16.72 | 16.55 | 16.94 | 16.11 | 16.46 | 15.66 | 16.22 |
| 11 | 16.04 | 16.48 | 16.48 | 16.98 | 16.24 | 16.74 | 16.48 | 16.80 | .... | .... | 15.60 | 15.98 |
| 12 | 16.08 | 16.62 | 16.47 | 16.96 | 16.33 | 16.75 | 16.47 | 16.87 | .... | .... | 15.70 | 16.01 |
| 13 | 16.24 | 16.62 | 16.19 | 16.80 | 16.31 | 16.69 | 16.30 | 16.70 | .... | .... | 15.49 | 15.87 |
| 14 | 16.29 | 16.56 | 16.22 | 16.66 | 16.38 | 16.78 | 16.53 | 16.84 | .... | .... | 15.51 | 15.86 |
| 15 | 16.43 | 16.70 | 16.31 | 16.74 | 16.48 | 16.83 | 16.56 | 16.87 | .... | .... | 15.59 | 15.92 |
| 16 | 16.49 | 16.73 | 16.38 | 16.73 | 16.47 | 16.83 | 16.53 | 16.91 | .... | .... | 15.62 | 16.00 |
| 17 | 16.49 | 16.80 | 16.34 | 16.78 | 16.59 | 16.85 | 15.70 | 16.90 | 16.14 | 16.60 | 15.28 | 15.94 |
| 18 | 16.51 | 16.76 | 16.24 | 16.72 | 16.52 | 16.90 | 15.90 | 16.25 | 16.13 | 16.65 | 15.17 | 15.62 |
| 19 | 16.28 | 16.82 | 16.22 | 16.81 | 16.30 | 16.83 | 16.05 | 16.36 | 16.14 | 16.68 | 15.11 | 15.50 |
| 20 | 16.28 | 16.62 | 16.09 | 16.63 | 16.31 | 16.76 | 16.01 | 16.39 | 16.07 | 16.64 | 15.05 | 15.45 |
| 21 | 16.32 | 16.80 | 16.09 | 16.66 | 16.44 | 16.84 | 16.05 | 16.39 | 16.10 | 16.54 | 15.05 | 15.48 |
| 22 | 16.52 | 16.77 | 16.12 | 16.64 | 16.40 | 16.90 | 16.06 | 16.44 | 16.04 | 16.66 | 15.09 | 16.48 |

S539--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Date | January | | February | | March | | April | | May | | June | |
|------|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 23 | 16.24 | 16.78 | 16.02 | 16.58 | 16.28 | 16.81 | 16.07 | 16.50 | 16.20 | 16.72 | 15.06 | 15.51 |
| 24 | 16.22 | 16.73 | 15.98 | 16.47 | 16.28 | 16.75 | 16.14 | 16.53 | 16.19 | 16.66 | 15.13 | 15.55 |
| 25 | 16.27 | 16.69 | 16.10 | 16.66 | 16.28 | 16.84 | 16.19 | 16.58 | 16.13 | 16.59 | 15.16 | 16.63 |
| 26 | 16.19 | 16.70 | 16.20 | 16.72 | 16.45 | 16.92 | 16.27 | 16.64 | 16.10 | 16.58 | 15.34 | 15.70 |
| 27 | 16.21 | 16.66 | 16.26 | 16.76 | 16.56 | 16.95 | 16.30 | 16.66 | 16.12 | 16.59 | 15.38 | 15.74 |
| 28 | 16.28 | 16.66 | 16.35 | 16.78 | 16.60 | 17.02 | 16.33 | 16.66 | 16.10 | 16.59 | 15.44 | 15.82 |
| 29 | 16.18 | 16.53 | | | 16.69 | 17.03 | 16.32 | 16.67 | 15.78 | 16.50 | 15.59 | 15.92 |
| 30 | 16.24 | 16.64 | | | 16.69 | 17.03 | 16.24 | 16.65 | 15.90 | 16.39 | 15.62 | 15.98 |
| 31 | 16.34 | 16.77 | | | 16.66 | 17.05 | | | 15.93 | 16.47 | | |

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Date | July | | August | | September | | October | | November | | December | |
|------|-------|-------|--------|-------|-----------|-------|---------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 15.69 | 16.02 | 15.70 | 16.00 | 15.79 | 16.16 | 14.37 | 15.01 | 15.10 | 15.61 | 14.96 | 15.62 |
| 2 | 15.72 | 16.07 | 15.63 | 16.00 | 15.79 | 16.20 | 14.40 | 14.94 | 15.05 | 15.57 | 14.92 | 15.55 |
| 3 | 15.63 | 16.05 | 15.63 | 16.03 | 15.81 | 16.22 | 14.45 | 15.00 | 15.18 | 15.63 | 14.93 | 15.59 |
| 4 | 15.18 | 15.92 | 15.73 | 16.05 | 15.85 | 16.23 | ..... | ..... | 15.33 | 15.72 | 15.09 | 15.68 |
| 5 | 15.18 | 15.59 | 15.44 | 16.04 | 15.82 | 16.20 | ..... | ..... | 15.29 | 15.70 | 15.25 | 15.78 |
| 6 | 15.26 | 15.57 | 15.41 | 15.78 | 15.77 | 16.15 | ..... | ..... | 15.21 | 15.65 | 15.35 | 15.84 |
| 7 | 15.25 | 15.63 | 15.43 | 15.76 | 15.87 | 16.28 | ..... | ..... | 15.09 | 15.62 | 15.40 | 15.89 |
| 8 | 15.26 | 15.60 | 15.51 | 15.82 | 16.01 | 16.32 | ..... | ..... | 15.07 | 15.58 | 15.48 | 15.95 |
| 9 | 15.26 | 15.64 | 15.55 | 15.86 | 16.03 | 16.35 | ..... | ..... | 15.02 | 15.65 | 15.60 | 16.04 |
| 10 | 15.58 | 15.66 | 15.56 | 15.86 | 16.02 | 16.36 | ..... | ..... | 14.96 | 15.56 | 15.59 | 16.08 |
| 11 | 15.43 | 15.65 | 15.61 | 15.93 | 15.79 | 16.26 | 13.34 | 14.74 | 14.93 | 15.58 | 15.60 | 16.12 |
| 12 | 15.33 | 15.58 | 15.68 | 15.98 | 15.69 | 16.19 | 13.37 | 13.90 | 15.07 | 15.64 | 15.67 | 16.12 |
| 13 | 15.31 | 15.58 | 15.76 | 16.05 | 15.52 | 16.12 | 13.76 | 14.20 | 15.22 | 15.74 | 15.63 | 16.14 |
| 14 | 15.24 | 15.50 | 15.74 | 16.09 | 15.47 | 16.02 | 13.79 | 14.27 | 15.34 | 15.84 | 15.60 | 16.17 |
| 15 | 15.08 | 15.51 | 15.71 | 16.08 | 15.40 | 16.00 | 13.74 | 14.28 | 15.34 | 15.88 | 15.41 | 16.02 |
| 16 | 15.14 | 15.40 | 15.69 | 16.06 | 15.40 | 15.98 | 13.90 | 14.41 | 15.47 | 15.92 | 15.46 | 15.96 |
| 17 | 15.20 | 15.44 | 15.65 | 16.07 | 14.97 | 16.05 | 14.08 | 14.58 | 15.56 | 15.97 | 15.50 | 16.00 |
| 18 | 15.22 | 15.48 | 15.48 | 16.00 | 14.92 | 15.42 | 14.28 | 14.71 | 15.50 | 15.94 | 15.69 | 16.13 |
| 19 | 15.24 | 15.50 | 15.46 | 15.92 | ..... | ..... | 14.43 | 14.82 | 15.52 | 15.88 | 15.68 | 16.06 |
| 20 | 15.25 | 15.52 | 15.47 | 15.91 | 15.59 | 15.95 | 14.58 | 14.94 | 15.48 | 15.86 | 15.51 | 16.00 |
| 21 | 15.26 | 15.60 | 15.58 | 15.97 | 15.41 | 15.82 | 14.76 | 15.05 | 15.36 | 15.72 | 15.57 | 16.04 |
| 22 | 15.29 | 15.64 | 15.70 | 16.04 | 15.23 | 15.68 | 14.85 | 15.09 | 15.24 | 15.71 | 15.59 | 16.04 |
| 23 | 15.33 | 15.71 | 15.79 | 16.07 | 15.30 | 15.81 | 14.89 | 15.18 | 15.20 | 15.65 | 15.64 | 16.03 |
| 24 | 15.52 | 15.75 | 15.81 | 16.10 | 15.69 | 15.95 | 15.00 | 15.26 | 15.25 | 15.72 | 15.46 | 16.08 |
| 25 | 15.52 | 15.77 | 15.91 | 16.14 | 15.83 | 16.04 | 14.94 | 15.31 | 15.17 | 15.74 | 15.48 | 16.00 |
| 26 | 15.52 | 15.80 | 15.90 | 16.18 | 15.70 | 16.05 | 14.95 | 15.28 | 15.11 | 15.74 | 15.60 | 16.06 |
| 27 | 15.52 | 15.80 | 15.88 | 16.18 | 15.16 | 15.97 | 14.95 | 15.34 | 15.15 | 15.76 | 15.53 | 16.14 |
| 28 | ..... | ..... | 15.91 | 16.20 | 14.94 | 15.42 | 14.99 | 15.43 | 14.93 | 15.76 | 15.46 | 16.10 |
| 29 | ..... | ..... | 15.83 | 16.22 | 14.66 | 15.27 | 15.07 | 15.51 | 14.74 | 15.51 | 15.46 | 16.07 |
| 30 | ..... | ..... | 15.75 | 16.19 | 14.46 | 15.07 | 15.09 | 15.53 | 14.82 | 15.47 | 15.47 | 16.07 |
| 31 | ..... | ..... | 15.77 | 16.16 | | | 15.10 | 15.59 | | | 15.54 | 16.08 |

Duval County

12 (*907, p. 14; 937, p. 13; 945, p. 13; 967, p. 28; 1017, p. 133; 1024, p. 45; 1072, p. 55). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 22 | 28.2 | June 4 | 27.5 | Aug. 12 | 28.3 | Oct. 7 | 28.5 |
| Mar. 13 | 27.5 | July 14 | 28.8 | Sept. 8 | 27.5 | Nov. 20 | 30.3 |
| Apr. 8 | 26.8 | | | | | | |

18 (*1072, p. 55). C. J. Price. In Jacksonville, about 400 feet east of Riverside Avenue, about 50 feet north of Lomax Street.

18--Continued.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 22 | 37.0 | June 4 | 39.9 | Aug. 12 | 36.3 | Oct. 7 | 40.2 |
| Mar. 13 | 37.9 | July 14 | 40.9 | Sept. 8 | 39.9 | Nov. 20 | 41.2 |
| Apr. 8 | 37.9 | | | | | | |

89 (*1072, p. 55). C. F. Tresca. At nursery, north of Atlantic Boulevard, in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 18, T. 2 S., R. 28 E.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 13.5 | June 2 | 16.9 | Aug. 12 | 13.3 | Oct. 8 | 14.5 |
| Mar. 11 | 13.8 | July 14 | 17.3 | Sept. 12 | 13.5 | Nov. 20 | 15.2 |
| Apr. 7 | 14.8 | | | | | | |

102 (*907, p. 14; 937, p. 13; 945, p. 13; 987, p. 28; 1017, p. 133; 1024, p. 45; 1072, p. 55). V. A. Stevens. SW $\frac{1}{4}$ NW $\frac{1}{4}$ 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 3.21 | June 2 | 3.40 | Aug. 12 | 2.10 | Oct. 8 | 2.39 |
| Mar. 11 | 6.80 | July 15 | 3.30 | Sept. 12 | 2.93 | Nov. 20 | 1.52 |
| Apr. 7 | 3.20 | | | | | | |

115 (*907, p. 15; 937, p. 13; 945, p. 13; 987, p. 28; 1017, p. 133; 1024, p. 45; 1072, p. 55). City of Jacksonville. In Ortega, 5 miles southwest of Jacksonville.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 33.3 | June 4 | 34.7 | Aug. 12 | 32.1 | Oct. 7 | 33.9 |
| Mar. 11 | 33.9 | July 14 | 37.4 | Sept. 10 | 31.4 | Nov. 20 | 35.6 |
| Apr. 8 | 31.4 | | | | | | |

118 (*907, p. 15; 937, p. 13; 945, p. 13; 987, p. 28; 1017, p. 133; 1024, p. 45; 1072, p. 55). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 20 | 30.6 | June 4 | 32.9 | Aug. 12 | 29.0 | Oct. 7 | 30.8 |
| Mar. 11 | 30.1 | July 14 | 34.3 | Sept. 10 | 29.8 | Nov. 20 | 32.6 |
| Apr. 8 | 30.3 | | | | | | |

122 (*907, p. 15; 937, p. 13; 945, p. 13; 987, p. 28; 1017, p. 133; 1024, p. 45; 1072, p. 55). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 20 | 41.3 | June 3 | 44.9 | Aug. 13 | 39.9 | Oct. 9 | 41.1 |
| Mar. 11 | 40.9 | July 16 | 44.6 | Sept. 9 | 40.6 | Nov. 20 | 42.2 |
| Apr. 8 | 41.2 | | | | | | |

123 (*907, p. 15; 937, p. 13; 945, p. 13; 987, p. 28; 1017, p. 133; 1024, p. 45; 1072, p. 56). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 20 | 32.9 | June 2 | 36.3 | Aug. 11 | 31.5 | Oct. 7 | 33.9 |
| Mar. 11 | 32.3 | July 14 | 35.7 | Sept. 8 | 31.9 | Nov. 20 | 34.0 |
| Apr. 7 | 33.0 | | | | | | |

129 (*907, p. 15; 937, p. 13; 945, p. 13; 987, p. 29; 1017, p. 133; 1024, p. 45; 1072, p. 56). Jim Merrill. In Ortega, 5.2 miles southwest of Jacksonville.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 39.1 | June 4 | 40.4 | Aug. 12 | 36.4 | Oct. 7 | 40.0 |
| Mar. 11 | 39.8 | July 14 | 41.5 | Sept. 10 | 36.8 | Nov. 20 | 40.4 |
| Apr. 8 | 39.0 | | | | | | |

131 (*907, p. 15; 937, p. 13; 945, p. 14; 987, p. 29; 1017, p. 133; 1024, p. 45; 1072, p. 56). G. C. Cole. SW $\frac{1}{4}$ 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Mar. 12 | 36.2 | June 3 | 39.8 | Aug. 13 | 37.7 | Nov. 20 | 39.9 |
| Apr. 8 | 35.7 | July 17 | 39.9 | Sept. 9 | 39.7 | | |

145 (*907, p. 16; 937, p. 13; 945, p. 14; 987, p. 29; 1017, p. 133; 1024, p. 45; 1072, p. 56). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 21 | 20.4 | June 3 | 24.2 | Aug. 13 | 18.5 | Oct. 9 | 20.2 |
| Mar. 12 | 20.7 | July 16 | 24.0 | Sept. 11 | 19.6 | Nov. 21 | 21.9 |
| Apr. 8 | 20.0 | | | | | | |

147 (*907, p. 16; 937, p. 13; 945, p. 14; 987, p. 29; 1017, p. 134; 1024, p. 45; 1072, p. 56). V. C. Johnson. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 32, T. 1 N., R. 26 E.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 22 | 31.6 | June 3 | 33.8 | Aug. 13 | 29.0 | Oct. 10 | 30.8 |
| Mar. 12 | 29.8 | July 17 | 32.6 | Sept. 9 | 31.8 | Nov. 20 | 32.3 |
| Apr. 8 | 29.7 | | | | | | |

149 (*907, p. 16; 937, p. 13; 945, p. 14; 987, p. 29; 1017, p. 134; 1024, p. 45; 1072, p. 56). Mrs. 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 20 | 25.8 | June 3 | 25.7 | Aug. 13 | 24.5 | Oct. 9 | 26.0 |
| Mar. 11 | 26.0 | July 16 | 28.5 | Sept. 9 | 25.0 | Nov. 20 | 27.5 |
| Apr. 8 | 26.0 | | | | | | |

154 (*907, p. 16; 937, p. 14; 945, p. 14; 987, p. 29; 1017, p. 134; 1024, p. 45; 1072, p. 56). J. M. Shield. SW $\frac{1}{4}$ 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 27.0 | June 2 | 29.6 | Aug. 12 | 25.3 | Oct. 10 | 26.9 |
| Mar. 11 | 27.1 | July 15 | 30.1 | Sept. 12 | 25.8 | Nov. 20 | 27.8 |
| Apr. 7 | 26.6 | | | | | | |

160 (*907, p. 16; 937, p. 14; 945, p. 14; 987, p. 29; 1017, p. 134; 1024, p. 45; 1072, p. 57). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 37.7 | June 2 | 40.0 | Aug. 12 | 35.5 | Oct. 8 | 38.4 |
| Mar. 10 | 38.0 | July 15 | 39.3 | Sept. 12 | 36.0 | Nov. 20 | 39.2 |
| Apr. 7 | 37.8 | | | | | | |

164 (*907, p. 16; 937, p. 14; 945, p. 14; 987, p. 29; 1017, p. 134; 1024, p. 46; 1072, p. 57). Ribault Club. On Fort George Island, in pump house at Ribault Club.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 20 | 53.9 | June 3 | 42.3 | Aug. 13 | 37.0 | Oct. 9 | 39.4 |
| Mar. 11 | 54.5 | July 16 | 43.8 | Sept. 9 | 37.3 | Nov. 20 | 40.3 |
| Apr. 8 | 56.5 | | | | | | |

Escambia County

45 (#907, p. 22; 937, p. 17; 945, p. 15; 987, p. 30; 1017, p. 134; 1024, p. 46; 1072, p. 57). Geological 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.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 84.01 | 84.09 | 88.47 | 88.74 | 88.62 | 88.82 | ..... | ..... | 84.17 | 87.74 | 87.99 | 88.15 |
| 2 | 84.02 | 84.09 | 87.74 | 88.82 | 88.82 | 89.07 | ..... | ..... | 82.71 | 84.17 | 87.95 | 88.10 |
| 3 | 84.03 | 84.16 | 87.16 | 87.94 | 89.02 | 89.12 | 88.50 | 88.57 | 82.61 | 83.87 | 88.10 | 88.20 |
| 4 | 84.13 | 84.20 | 87.94 | 88.49 | 89.01 | 89.17 | 88.50 | 88.56 | 82.85 | 85.47 | 88.12 | 88.29 |
| 5 | 83.97 | 84.67 | 87.25 | 88.54 | 88.90 | 89.02 | 87.10 | 88.53 | 84.97 | 86.45 | 88.09 | 88.33 |
| 6 | 84.68 | 85.47 | 87.05 | 87.92 | 88.89 | 89.00 | 86.74 | 87.10 | 86.45 | 86.82 | 88.05 | 88.17 |
| 7 | 85.47 | 85.70 | 87.92 | 88.33 | 88.59 | 88.94 | 86.64 | 87.90 | 86.79 | 87.28 | 87.71 | 88.14 |
| 8 | 85.70 | 85.97 | 88.34 | 88.69 | 88.69 | 89.02 | 87.90 | 88.14 | 87.25 | 87.55 | 87.12 | 87.92 |
| 9 | 86.06 | 86.23 | 88.69 | 88.85 | 89.10 | 89.20 | 88.04 | 88.27 | 87.50 | 87.59 | 86.65 | 87.27 |
| 10 | 86.23 | 86.32 | ..... | ..... | 89.05 | 89.16 | 88.00 | 88.20 | 87.58 | 87.80 | 87.27 | 87.02 |
| 11 | 85.95 | 86.23 | ..... | ..... | 89.12 | 89.25 | 88.17 | 88.35 | 87.80 | 87.94 | 85.90 | 86.66 |
| 12 | 85.95 | 86.20 | 88.72 | 88.87 | 88.96 | 89.22 | 88.35 | 88.48 | 87.91 | 88.02 | 85.60 | 86.20 |
| 13 | 86.08 | 86.20 | 88.69 | 88.80 | 88.25 | 88.96 | 88.46 | 88.49 | 87.85 | 88.00 | 85.61 | 86.61 |
| 14 | 86.21 | 87.07 | 88.68 | 88.80 | 88.62 | 88.89 | 88.37 | 88.48 | 87.92 | 88.03 | 85.55 | 86.22 |
| 15 | 87.07 | 87.71 | 88.60 | 88.67 | 88.84 | 88.90 | 87.99 | 88.31 | 87.90 | 88.10 | 85.69 | 86.19 |
| 16 | 87.71 | 88.06 | 88.60 | 88.69 | 88.87 | 88.94 | 88.08 | 88.28 | 87.86 | 88.00 | 85.53 | 86.17 |
| 17 | 87.54 | 88.22 | 88.62 | 88.73 | 88.31 | 88.89 | 88.28 | 88.58 | 87.95 | 88.10 | 85.53 | 85.83 |
| 18 | 88.01 | 88.28 | 88.70 | 88.77 | 88.72 | 88.92 | 88.52 | 88.58 | 87.99 | 88.11 | 85.54 | 85.62 |
| 19 | 88.02 | 88.19 | 88.45 | 88.70 | 88.56 | 88.87 | 88.38 | 88.52 | 88.00 | 88.10 | 85.57 | 86.82 |
| 20 | 84.84 | 88.09 | 88.37 | 88.79 | 88.87 | 88.94 | 88.24 | 88.38 | 87.81 | 88.04 | 86.82 | 87.06 |
| 21 | 83.76 | 84.84 | 88.79 | 89.00 | 88.90 | 88.99 | 88.22 | 88.31 | 87.80 | 88.04 | 84.74 | 87.11 |
| 22 | 83.56 | 85.64 | 88.89 | 89.05 | 87.42 | 89.02 | 88.29 | 88.45 | 88.04 | 88.22 | 85.39 | 85.51 |
| 23 | 85.64 | 86.00 | 88.68 | 88.89 | 87.28 | 88.27 | 88.35 | 88.49 | 88.22 | 88.30 | 85.57 | 86.42 |
| 24 | 86.00 | 87.48 | 88.82 | 89.00 | 88.28 | 88.60 | 88.29 | 88.39 | 88.16 | 88.25 | 86.45 | 86.55 |
| 25 | 87.47 | 87.67 | 89.02 | 89.10 | 88.62 | 88.85 | 88.16 | 88.37 | 88.14 | 88.19 | 86.38 | 86.80 |
| 26 | 87.67 | 87.84 | 89.07 | 89.19 | 88.84 | 88.98 | 88.30 | 88.41 | 88.10 | 88.23 | 86.72 | 87.07 |
| 27 | 87.85 | 88.08 | 89.00 | 89.14 | 88.62 | 88.94 | 88.35 | 88.40 | 88.16 | 88.24 | 87.07 | 87.32 |
| 28 | 88.08 | 88.20 | 88.69 | 89.00 | ..... | ..... | 88.08 | 88.40 | 88.08 | 88.16 | 87.52 | 87.45 |
| 29 | 88.09 | 88.21 | ..... | ..... | ..... | ..... | 87.87 | 88.02 | 87.85 | 88.13 | 87.37 | 87.49 |
| 30 | 88.03 | 88.28 | ..... | ..... | ..... | ..... | 87.74 | 87.87 | 87.96 | 88.21 | 87.58 | 87.54 |
| 31 | 88.28 | 88.48 | ..... | ..... | ..... | ..... | ..... | ..... | 87.92 | 88.33 | ..... | ..... |

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | November | | December | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 87.45 | 87.69 | 87.79 | 87.89 | 86.28 | 89.11 | 88.80 | 88.89 | 88.15 | 88.41 | 86.10 | 86.15 |
| 2 | 87.69 | 87.80 | 87.89 | 88.08 | 85.73 | 87.77 | 88.84 | 88.89 | 88.13 | 88.29 | 86.11 | 86.23 |
| 3 | 87.80 | 87.87 | 88.07 | 88.17 | 87.77 | 87.38 | 88.83 | 88.88 | 88.24 | 88.49 | 85.95 | 86.15 |
| 4 | 87.87 | 87.98 | 88.03 | 88.19 | 88.38 | 88.63 | 88.82 | 88.89 | 88.39 | 88.59 | 85.80 | 85.95 |
| 5 | 87.98 | 88.14 | 87.90 | 88.03 | 88.63 | 88.74 | 88.69 | 88.82 | 88.34 | 88.50 | 85.72 | 85.80 |
| 6 | 88.10 | 88.20 | 87.97 | 88.07 | 88.78 | 88.96 | 88.73 | 88.80 | 88.32 | 88.65 | 85.69 | 85.79 |
| 7 | 87.79 | 88.17 | 88.04 | 88.12 | 88.96 | 89.04 | 88.63 | 88.74 | 88.24 | 88.37 | 85.74 | 85.83 |
| 8 | 87.65 | 88.02 | 88.12 | 88.18 | 85.72 | 89.03 | 88.68 | 88.77 | 88.37 | 88.59 | 85.80 | 86.04 |
| 9 | 88.01 | 88.08 | 88.09 | 88.16 | 84.20 | 85.72 | 88.77 | 88.86 | 88.59 | 88.72 | 85.87 | 86.03 |
| 10 | 88.08 | 88.14 | 88.10 | 88.22 | 85.56 | 86.04 | 88.69 | 88.86 | 88.18 | 88.62 | 85.89 | 86.00 |
| 11 | 88.14 | 88.27 | 87.77 | 88.34 | 86.01 | 87.63 | 88.69 | 88.82 | 88.09 | 88.33 | 85.98 | 87.27 |
| 12 | 88.25 | 88.29 | 88.34 | 88.54 | 87.63 | 87.97 | 88.82 | 88.99 | 88.32 | 88.50 | 87.27 | 87.80 |
| 13 | 88.09 | 88.29 | 88.49 | 88.56 | 87.97 | 88.22 | 88.92 | 89.07 | 88.20 | 88.52 | 87.75 | 88.02 |
| 14 | 88.20 | 88.34 | 88.53 | 88.60 | ..... | ..... | 88.75 | 88.94 | 88.21 | 88.34 | 88.02 | 88.14 |
| 15 | 87.32 | 88.34 | 88.45 | 88.65 | ..... | ..... | 88.57 | 88.75 | 88.15 | 88.26 | 87.79 | 88.17 |
| 16 | 87.14 | 87.99 | 88.52 | 88.70 | ..... | ..... | 88.59 | 88.77 | 88.26 | 88.42 | 88.17 | 88.44 |
| 17 | 87.98 | 88.14 | 88.64 | 88.76 | ..... | ..... | 88.77 | 88.93 | 88.56 | 88.49 | 88.44 | 88.62 |
| 18 | 86.54 | 87.98 | 88.70 | 88.79 | ..... | ..... | 88.89 | 88.99 | 88.27 | 88.40 | 88.59 | 88.68 |
| 19 | 86.12 | 86.54 | 88.70 | 88.76 | ..... | ..... | 88.93 | 88.99 | 88.36 | 88.61 | 88.68 | 88.76 |
| 20 | 85.94 | 86.12 | 88.68 | 88.77 | ..... | ..... | 88.92 | 89.00 | 88.61 | 88.74 | 88.75 | 88.80 |
| 21 | 85.85 | 86.02 | 88.77 | 88.86 | | | 88.77 | 89.04 | 88.27 | 88.70 | 88.69 | 88.79 |
| 22 | 85.72 | 85.85 | 88.85 | 88.95 | | | 88.94 | 89.03 | 87.86 | 88.27 | 88.66 | 88.75 |

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High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | November | | December | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 23 | 85.84 | 86.04 | 88.82 | 88.90 | 87.75 | 88.48 | 89.00 | 89.07 | 87.53 | 87.86 | 88.63 | 88.69 |
| 24 | 85.79 | 86.14 | 88.42 | 88.89 | 88.42 | 88.53 | 89.01 | 89.09 | 86.47 | 87.53 | 84.77 | 88.64 |
| 25 | 85.59 | 85.79 | 88.84 | 88.95 | 88.53 | 88.69 | 89.08 | 89.23 | 86.22 | 86.47 | 82.64 | 84.77 |
| 26 | 85.55 | 85.74 | 88.88 | 88.95 | 88.66 | 88.78 | 89.19 | 89.24 | 86.16 | 86.29 | 82.29 | 86.27 |
| 27 | 85.52 | 86.07 | 88.92 | 89.01 | 88.71 | 88.84 | 88.67 | 89.22 | 86.24 | 86.35 | 86.27 | 87.34 |
| 28 | 86.07 | 87.14 | 88.95 | 89.03 | 88.81 | 88.90 | 88.72 | 88.82 | 86.35 | 86.47 | 87.34 | 87.72 |
| 29 | 87.14 | 87.43 | 88.99 | 89.06 | 88.79 | 88.85 | 88.80 | 88.99 | 86.35 | 86.49 | 87.72 | 88.03 |
| 30 | 87.42 | 87.66 | 89.04 | 89.13 | 88.78 | 88.84 | 88.72 | 88.91 | 85.68 | 86.35 | 88.03 | 88.24 |
| 31 | 87.66 | 87.79 | 89.07 | 89.12 | | | 88.41 | 88.72 | | | 88.06 | 88.31 |

46 (#907, p. 22; 937, p. 18; 945, p. 15; 987, p. 31; 1017, p. 135; 1024, p. 47; 1072, p. 58). Geological 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 daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 62.60 | 62.62 | 62.84 | 63.03 | 62.84 | 62.94 | ..... | ..... | 59.80 | 59.86 | 59.44 | 59.51 |
| 2 | 62.59 | 62.62 | 63.03 | 63.11 | 62.94 | 63.12 | ..... | ..... | 59.75 | 59.80 | 59.40 | 59.45 |
| 3 | 62.59 | 62.73 | 62.86 | 63.07 | 63.12 | 63.19 | 61.14 | 61.21 | 59.66 | 59.75 | 59.58 | 59.41 |
| 4 | 62.71 | 62.79 | 62.72 | 62.88 | 63.16 | 63.22 | 61.10 | 61.15 | 59.70 | 59.76 | 59.40 | 59.46 |
| 5 | 62.70 | 62.74 | 62.88 | 62.96 | 63.16 | 63.22 | 61.05 | 61.10 | 59.66 | 59.75 | 59.45 | 59.52 |
| 6 | 62.74 | 62.77 | 62.70 | 62.92 | 63.02 | 63.16 | 61.09 | 61.15 | 59.66 | 59.73 | 59.47 | 59.52 |
| 7 | 62.71 | 62.74 | 62.69 | 62.73 | 62.74 | 63.05 | 61.09 | 61.15 | 59.64 | 59.70 | 59.43 | 59.49 |
| 8 | 62.72 | 62.78 | 62.73 | 62.89 | 62.80 | 63.06 | 60.97 | 61.09 | 59.68 | 59.74 | 59.40 | 59.45 |
| 9 | 62.78 | 62.89 | 62.89 | 63.06 | 63.05 | 63.10 | 60.89 | 60.97 | 59.70 | 59.76 | 59.37 | 59.42 |
| 10 | 62.85 | 62.89 | 63.06 | 63.14 | 62.94 | 63.05 | 60.80 | 60.91 | 59.74 | 59.79 | 59.38 | 59.41 |
| 11 | 62.60 | 62.85 | 63.08 | 63.12 | 62.90 | 62.95 | 60.74 | 60.84 | 59.79 | 59.84 | 59.39 | 59.43 |
| 12 | 62.60 | 62.69 | 63.00 | 63.08 | 62.75 | 62.90 | 60.77 | 60.82 | 59.75 | 59.82 | 59.32 | 59.39 |
| 13 | 62.60 | 62.69 | 62.96 | 63.02 | 62.46 | 62.75 | 60.64 | 60.77 | 59.75 | 59.79 | 59.30 | 59.33 |
| 14 | 62.65 | 62.61 | 62.89 | 62.96 | 62.46 | 62.52 | 60.59 | 60.64 | 59.70 | 59.75 | 59.32 | 59.43 |
| 15 | 62.81 | 62.84 | 62.85 | 62.89 | 62.32 | 62.47 | 60.46 | 60.61 | 59.69 | 59.74 | 59.43 | 59.51 |
| 16 | 62.84 | 62.86 | 62.84 | 62.87 | 62.26 | 62.33 | 60.42 | 60.49 | 59.69 | 59.75 | 59.47 | 59.54 |
| 17 | 62.86 | 62.88 | 62.84 | 62.87 | 62.17 | 62.27 | 60.45 | 60.53 | 59.69 | 59.77 | 59.51 | 59.54 |
| 18 | 62.83 | 62.88 | 62.87 | 62.91 | 62.08 | 62.20 | 60.47 | 60.55 | 59.67 | 59.75 | 59.54 | 59.59 |
| 19 | 62.66 | 62.80 | 62.80 | 62.92 | 61.87 | 62.08 | 60.32 | 60.47 | 59.62 | 59.71 | 59.58 | 59.63 |
| 20 | 62.64 | 62.79 | 62.69 | 62.91 | 61.93 | 61.98 | 60.12 | 60.32 | 59.53 | 59.65 | 59.57 | 59.61 |
| 21 | 62.79 | 63.08 | 62.92 | 63.10 | 61.89 | 61.96 | 60.09 | 60.15 | 59.35 | 59.54 | 59.57 | 59.62 |
| 22 | 63.08 | 63.14 | 63.05 | 63.13 | 61.87 | 61.91 | 60.19 | 60.22 | 59.52 | 59.64 | 59.62 | 59.66 |
| 23 | 62.94 | 63.10 | 62.91 | 63.06 | 61.68 | 61.88 | 60.19 | 60.24 | 59.64 | 59.68 | 59.67 | 59.72 |
| 24 | 62.78 | 62.96 | 62.99 | 63.12 | 61.50 | 61.68 | 60.08 | 60.19 | 59.53 | 59.65 | 59.63 | 59.69 |
| 25 | 62.69 | 62.78 | 63.12 | 63.17 | ..... | ..... | 60.06 | 60.10 | 59.53 | 59.56 | 59.62 | 59.68 |
| 26 | 62.69 | 62.69 | 63.17 | 63.24 | ..... | ..... | 60.07 | 60.12 | 59.52 | 59.57 | 59.64 | 59.70 |
| 27 | 62.69 | 62.74 | 63.15 | 63.21 | ..... | ..... | 60.02 | 60.08 | 59.50 | 59.56 | 59.64 | 59.68 |
| 28 | 62.74 | 62.80 | 62.90 | 63.15 | ..... | ..... | 59.97 | 60.02 | 59.42 | 59.49 | 59.65 | 59.73 |
| 29 | 62.71 | 62.77 | ..... | ..... | ..... | ..... | 59.89 | 59.96 | 59.34 | 59.44 | 59.72 | 59.76 |
| 30 | 62.62 | 62.71 | ..... | ..... | ..... | ..... | 59.84 | 59.89 | 59.39 | 59.50 | 59.75 | 59.80 |
| 31 | 62.69 | 62.84 | ..... | ..... | ..... | ..... | ..... | ..... | 59.50 | 59.56 | ..... | ..... |

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | November | | December | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 59.78 | 59.82 | 60.65 | 60.70 | 61.74 | 61.79 | 62.00 | 62.04 | 61.87 | 62.02 | 62.19 | 62.21 |
| 2 | 59.78 | 59.82 | 60.70 | 60.79 | 61.79 | 61.86 | 62.00 | 62.06 | 61.90 | 62.04 | 62.17 | 62.20 |
| 3 | 59.78 | 59.82 | 60.78 | 60.87 | 61.86 | 61.90 | 61.98 | 62.07 | 62.04 | 62.27 | 62.09 | 62.17 |
| 4 | 59.79 | 59.85 | 60.80 | 60.89 | 61.90 | 61.92 | 61.92 | 61.93 | 62.27 | 62.31 | 61.97 | 62.19 |
| 5 | 59.85 | 59.95 | 60.74 | 60.80 | 61.91 | 61.94 | 61.86 | 61.93 | 62.26 | 62.29 | 61.89 | 61.97 |
| 6 | 59.93 | 59.97 | 60.75 | 60.82 | 61.92 | 61.99 | 61.85 | 61.89 | 62.29 | 62.36 | 61.86 | 61.90 |
| 7 | 59.94 | 59.96 | 60.80 | 60.89 | 61.99 | 62.04 | 61.74 | 61.85 | 62.18 | 62.32 | 61.78 | 61.86 |
| 8 | 59.91 | 59.94 | 60.87 | 60.93 | 61.82 | 61.99 | 61.74 | 61.77 | 62.30 | 62.47 | 61.74 | 61.79 |
| 9 | 59.94 | 59.98 | 60.82 | 60.90 | 61.90 | 62.02 | 61.77 | 61.83 | 62.47 | 62.55 | 61.75 | 61.81 |

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High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | November | | December | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 10 | ..... | ..... | 60.83 | 60.95 | 62.02 | 62.10 | 61.80 | 61.85 | 62.32 | 62.54 | 61.71 | 61.78 |
| 11 | 60.02 | 60.07 | 60.94 | 61.05 | 62.08 | 62.15 | 61.79 | 61.83 | 62.12 | 62.32 | 61.65 | 61.76 |
| 12 | 60.07 | 60.10 | 61.05 | 61.14 | 62.07 | 62.14 | 61.83 | 61.96 | 62.27 | 62.41 | 61.71 | 61.75 |
| 13 | 60.10 | 60.12 | 61.09 | 61.14 | 62.07 | 62.12 | 61.94 | 61.98 | 62.40 | 62.45 | 61.65 | 61.75 |
| 14 | 60.12 | 60.15 | 61.09 | 61.16 | 62.11 | 62.17 | 61.83 | 61.94 | 62.29 | 62.42 | 61.57 | 61.70 |
| 15 | 60.09 | 60.14 | 61.12 | 61.20 | 62.17 | 62.20 | 61.88 | 61.83 | 62.27 | 62.35 | 61.52 | 61.57 |
| 16 | 60.10 | 60.18 | 61.20 | 61.28 | 62.20 | 62.27 | 61.72 | 61.83 | 62.33 | 62.42 | 61.45 | 61.64 |
| 17 | 60.15 | 60.22 | 61.27 | 61.34 | 62.27 | 62.33 | 61.83 | 61.90 | 62.40 | 62.44 | 61.64 | 61.67 |
| 18 | 60.18 | 60.23 | 61.28 | 61.35 | 62.08 | 62.33 | 61.90 | 61.95 | 62.22 | 62.38 | 61.59 | 61.65 |
| 19 | 60.19 | 60.22 | 61.24 | 61.32 | 61.86 | 62.09 | 61.91 | 61.97 | 62.27 | 62.39 | 61.54 | 61.59 |
| 20 | 60.19 | 60.23 | 61.25 | 61.35 | 62.09 | 62.17 | 61.97 | 62.02 | 62.39 | 62.44 | 61.45 | 61.54 |
| 21 | 60.24 | 60.27 | 61.34 | 61.42 | 62.09 | 62.17 | 62.02 | 62.04 | 62.33 | 62.43 | 61.35 | 61.45 |
| 22 | 60.25 | 60.32 | 61.40 | 61.46 | 62.04 | 62.09 | 62.02 | 62.05 | 62.30 | 62.33 | 61.29 | 61.35 |
| 23 | 60.31 | 60.43 | 61.40 | 61.46 | 61.99 | 62.04 | 62.01 | 62.06 | 62.18 | 62.30 | 61.25 | 61.29 |
| 24 | 60.44 | 60.54 | 61.44 | 61.50 | 61.98 | 62.04 | 62.03 | 62.10 | 62.09 | 62.20 | 61.25 | 61.32 |
| 25 | 60.54 | 60.59 | 61.49 | 61.54 | 62.04 | 62.11 | 62.09 | 62.15 | 62.12 | 62.18 | 61.31 | 61.34 |
| 26 | 60.55 | 60.57 | 61.53 | 61.57 | 62.09 | 62.16 | 62.12 | 62.15 | 62.10 | 62.17 | 61.29 | 61.36 |
| 27 | 60.54 | 60.58 | 61.57 | 61.62 | 62.10 | 62.17 | 62.03 | 62.12 | 62.16 | 62.22 | 61.25 | 61.31 |
| 28 | 60.53 | 60.59 | 61.59 | 61.64 | 62.09 | 62.16 | 62.04 | 62.11 | 62.22 | 62.28 | 61.13 | 61.25 |
| 29 | 60.59 | 60.60 | 61.63 | 61.66 | 62.04 | 62.11 | 62.06 | 62.12 | 62.27 | 62.32 | 61.10 | 61.13 |
| 30 | 60.58 | 60.67 | 61.67 | 61.72 | 61.97 | 62.10 | 62.06 | 62.11 | 62.20 | 62.27 | 61.09 | 61.12 |
| 31 | 60.66 | 60.70 | 61.70 | 61.74 | | | 62.02 | 62.10 | | | 60.96 | 61.09 |

60 (*1024, p. 48; 1072, p. 59). Geological Survey, U. S. Dept. of Interior. In Pensacola, at foot of H Street.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|-------|----------|-------|-------|-------|-------|------|-------|-------|------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 10.06 | 10.37 | 9.95 | 10.13 | 10.29 | 10.58 | 8.40 | 8.55 | 8.74 | 8.75 | 9.21 | 9.30 |
| 2 | 10.02 | 10.07 | 9.97 | 10.22 | 10.29 | 10.45 | 8.38 | 8.42 | 8.74 | 8.75 | 9.08 | 9.21 |
| 3 | 10.02 | 10.24 | 9.90 | 9.97 | 10.12 | 10.47 | 8.40 | 8.50 | 8.75 | 8.78 | 9.08 | 9.12 |
| 4 | 10.23 | 10.47 | 9.66 | 9.72 | 9.79 | 10.12 | 8.49 | 8.55 | 8.78 | 8.83 | 9.12 | 9.19 |
| 5 | 10.06 | 10.26 | 9.72 | 9.95 | 9.63 | 9.79 | 8.55 | 8.56 | 8.83 | 8.90 | 9.19 | 9.26 |
| 6 | 10.02 | 10.19 | 9.85 | 9.93 | 9.54 | 9.63 | 8.55 | 8.58 | 8.90 | 9.00 | 9.26 | 9.32 |
| 7 | 10.11 | 10.23 | 9.72 | 9.87 | 9.24 | 9.54 | 8.58 | 8.65 | 9.00 | 9.03 | 9.30 | 9.35 |
| 8 | ..... | ..... | 9.77 | 9.90 | 9.22 | 9.30 | 8.65 | 8.74 | 9.03 | 9.09 | 9.35 | 9.48 |
| 9 | 10.13 | 10.35 | 9.90 | 9.93 | ..... | ..... | 8.74 | 8.83 | 9.09 | 9.12 | 9.48 | 9.39 |
| 10 | 10.30 | 10.38 | 9.93 | 10.08 | ..... | ..... | 8.83 | 8.90 | 9.12 | 9.15 | 9.39 | 9.65 |
| 11 | 10.10 | 10.33 | 10.08 | 10.13 | ..... | ..... | 8.87 | 8.92 | 9.09 | 9.14 | 9.65 | 9.69 |
| 12 | 9.80 | 10.10 | 10.14 | 10.18 | ..... | ..... | 8.85 | 8.90 | ..... | ..... | 9.69 | 9.72 |
| 13 | 9.64 | 9.80 | 10.14 | 10.27 | 8.77 | 9.15 | 8.75 | 8.88 | ..... | ..... | 9.71 | 9.72 |
| 14 | 9.64 | 9.72 | 10.27 | 10.41 | 8.77 | 8.82 | 8.72 | 8.77 | ..... | ..... | 9.69 | 9.71 |
| 15 | 9.72 | 9.82 | 10.42 | 10.51 | ..... | ..... | 8.68 | 8.73 | 9.00 | 9.07 | 9.71 | 9.74 |
| 16 | 9.81 | 9.92 | 10.50 | 10.60 | ..... | ..... | 8.65 | 8.68 | 9.07 | 9.11 | 9.71 | 9.75 |
| 17 | 9.87 | 10.05 | 10.44 | 10.54 | ..... | ..... | 8.65 | 8.70 | 9.11 | 9.17 | 9.75 | 9.82 |
| 18 | 9.97 | 10.14 | 10.42 | 10.50 | ..... | ..... | 8.70 | 8.78 | 9.17 | 9.18 | 9.80 | 9.89 |
| 19 | 9.41 | 9.97 | 10.35 | 10.48 | ..... | ..... | 8.78 | 8.79 | 9.14 | 9.19 | 9.89 | 9.92 |
| 20 | 9.36 | 9.56 | 10.27 | 10.35 | 8.66 | 8.72 | 8.67 | 8.78 | 9.15 | 9.18 | 9.90 | 9.93 |
| 21 | 9.56 | 10.13 | 10.28 | 10.51 | 8.72 | 8.72 | 8.57 | 8.67 | 8.90 | 9.18 | 9.73 | 9.83 |
| 22 | 10.13 | 10.37 | 10.61 | 10.63 | 8.83 | 8.95 | 8.59 | 8.66 | 8.85 | 8.93 | 9.55 | 9.78 |
| 23 | 10.25 | 10.31 | 10.54 | 10.63 | 8.78 | 8.94 | 8.66 | 8.72 | 8.88 | 8.94 | 9.57 | 9.65 |
| 24 | 9.80 | 10.27 | 10.23 | 10.54 | 8.62 | 8.78 | 8.72 | 8.76 | 8.94 | 9.02 | 9.65 | 9.72 |
| 25 | 9.48 | 9.80 | 10.25 | 10.65 | 8.64 | 8.88 | 8.75 | 8.82 | 8.90 | 9.01 | 9.72 | 9.74 |
| 26 | 9.31 | 9.48 | 10.65 | 10.80 | 8.90 | 9.07 | 8.78 | 8.87 | 8.87 | 8.93 | 9.74 | 9.79 |
| 27 | 9.35 | 9.68 | 10.75 | 10.82 | 8.96 | 9.12 | 8.78 | 8.89 | 8.88 | 8.93 | 9.78 | 9.79 |
| 28 | 9.68 | 10.02 | 10.58 | 10.77 | 8.96 | 9.03 | 8.78 | 8.80 | 8.93 | 8.98 | 9.77 | 9.80 |
| 29 | 9.97 | 10.03 | | | 8.96 | 9.10 | 8.77 | 8.80 | 8.98 | 9.02 | 9.78 | 9.81 |
| 30 | 9.89 | 9.98 | | | 8.55 | 8.96 | 8.75 | 8.79 | 9.02 | 9.16 | 9.78 | 9.81 |
| 31 | 9.89 | 9.99 | | | 8.49 | 8.55 | | | 9.16 | 9.30 | | |

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High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Date | July | | August | | September | | October | | November | | December | |
|------|-------|-------|--------|-------|-----------|-------|---------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 9.82 | 9.86 | 11.38 | 11.42 | ..... | ..... | 9.20 | 9.30 | 9.30 | 9.32 | 8.73 | 8.77 |
| 2 | 9.86 | 9.93 | 11.27 | 11.41 | ..... | ..... | 9.30 | 9.33 | 9.28 | 9.30 | 8.72 | 8.73 |
| 3 | 9.93 | 9.98 | 11.16 | 11.27 | ..... | ..... | 9.30 | 9.32 | ..... | ..... | 8.70 | 8.72 |
| 4 | 9.90 | 9.98 | 11.15 | 11.17 | ..... | ..... | 9.28 | 9.30 | ..... | ..... | 8.68 | 8.70 |
| 5 | 9.80 | 9.90 | 11.15 | 11.22 | ..... | ..... | 9.26 | 9.28 | 9.28 | 9.37 | 8.67 | 8.68 |
| 6 | 9.78 | 9.82 | 11.22 | 11.33 | ..... | ..... | ..... | ..... | 9.37 | 9.46 | 8.65 | 8.67 |
| 7 | 9.78 | 9.93 | 11.33 | 11.34 | ..... | ..... | ..... | ..... | 9.46 | 9.48 | 8.64 | 8.65 |
| 8 | 9.93 | 10.28 | 11.32 | 11.34 | ..... | ..... | 9.40 | 9.43 | 9.48 | 9.55 | 8.60 | 8.64 |
| 9 | 10.28 | 10.34 | 11.33 | 11.34 | ..... | ..... | 9.42 | 9.45 | 9.55 | 9.62 | 8.55 | 8.60 |
| 10 | 10.34 | 10.35 | 11.27 | 11.33 | ..... | ..... | 9.45 | 9.47 | 9.62 | 9.68 | 8.50 | 8.55 |
| 11 | 10.35 | 10.39 | 11.11 | 11.27 | ..... | ..... | 9.45 | 9.47 | 9.63 | 9.68 | 8.48 | 8.50 |
| 12 | 10.39 | 10.50 | 11.12 | 11.15 | ..... | ..... | 9.45 | 9.46 | ..... | ..... | 8.46 | 8.48 |
| 13 | 10.50 | 10.55 | 11.15 | 11.36 | ..... | ..... | ..... | ..... | 9.59 | 9.62 | 8.44 | 8.46 |
| 14 | 10.53 | 10.57 | 11.36 | 11.42 | ..... | ..... | 9.45 | 9.47 | 9.57 | 9.59 | 8.40 | 8.44 |
| 15 | 10.57 | 10.70 | 11.28 | 11.45 | 10.44 | 10.95 | 9.48 | 9.49 | 9.48 | 9.57 | 8.22 | 8.40 |
| 16 | 10.70 | 10.80 | 11.10 | 11.28 | 10.92 | 10.95 | 9.47 | 9.48 | 9.39 | 9.48 | ..... | ..... |
| 17 | 10.80 | 10.85 | 10.98 | 11.10 | 10.91 | 10.92 | 9.45 | 9.47 | 9.29 | 9.39 | ..... | ..... |
| 18 | 10.78 | 10.88 | 10.87 | 10.98 | 11.42 | 10.93 | 9.45 | 9.46 | 9.20 | 9.29 | 8.38 | 8.48 |
| 19 | 10.60 | 10.78 | 10.83 | 10.87 | 7.34 | 10.93 | 9.44 | 9.45 | 9.12 | 9.20 | 8.48 | 8.52 |
| 20 | 10.49 | 10.60 | 10.81 | 10.83 | 7.32 | 7.34 | 9.43 | 9.44 | 9.08 | 9.12 | 8.52 | 8.57 |
| 21 | 10.48 | 10.50 | 10.80 | 10.81 | 7.32 | 7.35 | 9.43 | 9.44 | 9.05 | 9.08 | 8.57 | 8.59 |
| 22 | 10.47 | 10.57 | 10.80 | 10.87 | 7.35 | 8.55 | 9.44 | 9.45 | 8.99 | 9.05 | 8.59 | 8.63 |
| 23 | 10.57 | 10.89 | 10.87 | 10.89 | 8.55 | 9.35 | 9.44 | 9.45 | 8.91 | 8.99 | 8.63 | 8.64 |
| 24 | 10.89 | 11.02 | ..... | ..... | 9.35 | 10.11 | 9.43 | 9.44 | 8.86 | 8.91 | 8.60 | 8.64 |
| 25 | 11.02 | 11.09 | ..... | ..... | 9.64 | 10.11 | 9.40 | 9.43 | 8.83 | 8.86 | 8.48 | 8.60 |
| 26 | 11.09 | 11.14 | ..... | ..... | 9.50 | 9.64 | 9.37 | 9.40 | ..... | ..... | 8.38 | 8.48 |
| 27 | 11.05 | 11.15 | ..... | ..... | 9.32 | 9.50 | 9.32 | 9.37 | 8.78 | 8.80 | 8.33 | 8.38 |
| 28 | 11.03 | 11.06 | ..... | ..... | 9.20 | 9.32 | ..... | ..... | 8.77 | 8.78 | 8.26 | 8.33 |
| 29 | 11.06 | 11.18 | ..... | ..... | ..... | ..... | ..... | ..... | 8.77 | 8.78 | 8.25 | 8.30 |
| 30 | 11.18 | 11.30 | ..... | ..... | ..... | ..... | 9.28 | 9.29 | 8.77 | 8.78 | 8.30 | 8.34 |
| 31 | 11.30 | 11.38 | ..... | ..... | ..... | ..... | 9.29 | 9.32 | ..... | ..... | 8.33 | 8.35 |

60-A (*1024, p. 50; 1072, p. 61). Geological Survey, U. S. Dept. of Interior. In Pensacola, at foot of H Street.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Jan. 8 | 5.37 | Apr. 9 | 4.78 | July 9 | 5.45 | Oct. 14 | 5.31 |
| 15 | 4.83 | 16 | 4.09 | 16 | 5.51 | 21 | 5.29 |
| 22 | 5.32 | 23 | 4.63 | 23 | 5.95 | 28 | 5.09 |
| 29 | 5.05 | 30 | 5.05 | 30 | 5.68 | Nov. 4 | 5.33 |
| Feb. 5 | 5.54 | May 7 | 5.31 | Aug. 6 | 5.91 | 12 | 3.93 |
| 12 | 4.79 | 14 | 5.28 | 13 | 5.25 | 19 | 3.95 |
| 19 | 5.68 | 21 | 4.68 | 20 | 4.98 | 26 | 4.06 |
| 26 | 5.86 | 28 | 5.11 | 27 | 5.39 | Dec. 3 | 4.55 |
| Mar. 5 | 5.38 | June 4 | 5.16 | Sept. 3 | 5.52 | 10 | 4.40 |
| 12 | 4.78 | 11 | 5.40 | 15 | 5.38 | 17 | 4.23 |
| 19 | 4.46 | 18 | 5.32 | 22 | 4.05 | 24 | 4.75 |
| 26 | 5.04 | 25 | 5.20 | 30 | 4.89 | 31 | 4.93 |
| Apr. 2 | 4.29 | July 2 | 5.28 | Oct. 7 | 4.93 | | |

62 (*945, p. 16; 987, p. 32; 1017, p. 137; 1024, p. 51; 1072, p. 61) Geological Survey, U. S. Dept. of Interior. In Peterson 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.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 12.85 | 12.91 | 12.77 | 12.84 | 13.35 | 13.45 | 12.32 | 12.35 | 12.35 | 12.35 | 12.43 | 12.54 |
| 2 | 12.83 | 12.85 | 12.72 | 12.82 | 13.29 | 13.37 | 12.30 | 12.38 | 12.35 | 12.35 | 12.54 | 12.60 |
| 3 | 12.83 | 12.95 | 12.58 | 12.72 | 13.27 | 13.32 | 12.37 | 12.44 | 12.34 | 12.35 | 12.61 | 12.78 |

62--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 4 | 12.95 | 13.05 | 12.55 | 12.58 | 13.32 | 13.53 | 12.44 | 12.55 | 12.34 | 12.37 | 12.78 | 12.94 |
| 5 | 12.90 | 12.98 | 12.55 | 12.62 | 13.53 | 13.70 | 12.55 | 12.58 | 12.37 | 12.49 | 12.94 | 13.05 |
| 6 | 12.89 | 12.92 | 12.59 | 12.60 | 13.71 | 13.74 | 12.46 | 12.57 | 12.49 | 12.59 | 13.05 | 13.07 |
| 7 | 12.91 | 12.93 | 12.58 | 12.60 | 13.46 | 13.73 | 12.46 | 12.51 | 12.59 | 12.62 | 13.07 | 13.12 |
| 8 | ..... | ..... | 12.60 | 12.64 | 13.36 | 13.46 | 12.51 | 12.63 | 12.63 | 12.78 | 13.10 | 13.14 |
| 9 | 13.00 | 13.11 | 12.64 | 12.65 | 12.95 | 13.37 | 12.63 | 12.71 | 12.78 | 12.83 | 13.03 | 13.10 |
| 10 | 13.11 | 13.13 | 12.65 | 12.73 | 12.83 | 12.95 | 12.71 | 12.82 | 12.80 | 12.84 | 13.05 | 13.09 |
| 11 | 12.99 | 13.11 | 12.73 | 12.82 | 12.87 | 13.01 | 12.82 | 12.83 | 12.77 | 13.81 | 13.09 | 13.11 |
| 12 | 12.77 | 12.99 | 12.82 | 12.87 | 13.01 | 13.05 | 12.70 | 12.82 | 12.67 | 12.77 | 13.10 | 13.11 |
| 13 | 12.61 | 12.77 | 12.87 | 13.04 | 12.95 | 13.06 | 12.60 | 12.70 | 12.67 | 12.70 | 13.11 | 13.12 |
| 14 | 12.61 | 12.66 | 13.04 | 13.17 | 12.95 | 13.05 | 12.54 | 12.60 | 12.70 | 12.83 | 13.12 | 13.15 |
| 15 | 12.66 | 12.68 | 13.17 | 13.20 | 13.05 | 13.11 | 12.53 | 12.54 | 12.84 | 12.85 | 13.15 | 13.22 |
| 16 | 12.68 | 12.71 | 13.19 | 13.23 | 12.95 | 13.10 | 12.54 | 12.56 | 12.85 | 12.92 | 13.10 | 13.22 |
| 17 | 12.70 | 12.80 | 13.12 | 13.19 | 12.94 | 12.96 | 12.55 | 12.59 | 12.92 | 12.97 | 13.12 | 13.21 |
| 18 | 12.76 | 12.83 | 13.12 | 13.14 | 12.88 | 13.03 | 12.59 | 12.68 | 12.90 | 12.95 | 13.21 | 13.21 |
| 19 | 12.39 | 12.76 | 13.14 | 13.17 | 12.46 | 12.88 | 12.57 | 12.68 | 12.89 | 12.93 | 13.29 | 13.31 |
| 20 | 12.35 | 12.39 | 13.14 | 13.17 | 12.42 | 12.48 | 12.33 | 12.57 | 12.93 | 13.00 | 13.31 | 13.33 |
| 21 | 12.37 | 12.66 | 13.14 | 13.24 | 12.48 | 12.56 | ..... | ..... | 12.86 | 13.00 | 13.25 | 13.35 |
| 22 | 12.66 | 12.76 | 13.24 | 13.29 | 12.56 | 12.63 | 12.33 | 12.42 | 12.83 | 12.87 | 13.08 | 13.25 |
| 23 | 12.76 | 12.85 | 13.22 | 13.29 | 12.37 | 12.60 | 12.42 | 12.52 | 12.85 | 12.91 | 13.08 | 13.13 |
| 24 | 12.85 | 12.89 | 13.19 | 13.22 | 12.32 | 12.37 | 12.52 | 12.59 | 12.85 | 12.94 | 13.13 | 13.18 |
| 25 | 12.56 | 12.83 | 13.21 | 13.38 | 12.37 | 12.63 | 12.59 | 12.68 | 12.67 | 12.85 | 13.19 | 13.27 |
| 26 | 12.37 | 12.56 | 13.38 | 13.45 | 12.65 | 12.83 | 12.66 | 12.72 | 12.63 | 12.67 | 13.27 | 13.30 |
| 27 | 12.33 | 12.64 | 13.44 | 13.45 | 12.68 | 12.83 | 12.46 | 12.66 | 12.65 | 12.73 | 13.24 | 13.29 |
| 28 | 12.63 | 12.70 | 13.45 | 13.46 | 12.68 | 12.77 | 12.38 | 12.46 | 12.74 | 12.76 | 13.19 | 13.24 |
| 29 | 12.66 | 12.67 | ..... | ..... | 12.67 | 12.80 | 12.38 | 12.43 | 12.77 | 12.89 | 13.16 | 13.19 |
| 30 | 12.68 | 12.72 | ..... | ..... | 12.33 | 12.67 | 12.34 | 12.43 | 12.80 | 12.98 | 13.13 | 13.16 |
| 31 | 12.72 | 12.77 | ..... | ..... | ..... | ..... | ..... | ..... | 12.41 | 12.80 | ..... | ..... |

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | November | | December | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 13.15 | 13.17 | 13.42 | 13.43 | 13.38 | 13.48 | 11.90 | 12.48 | 12.95 | 13.04 | 11.47 | 11.60 |
| 2 | 13.17 | 13.20 | 13.30 | 13.42 | 13.38 | 13.41 | 12.48 | 12.85 | 12.85 | 12.95 | 11.47 | 11.65 |
| 3 | 13.20 | 13.23 | 13.13 | 13.30 | 13.41 | 13.49 | 12.85 | 12.95 | 12.83 | 12.85 | 11.65 | 11.78 |
| 4 | 13.13 | 13.23 | 13.12 | 13.15 | 13.49 | 13.55 | 12.95 | 12.97 | 12.85 | 12.88 | 11.78 | 11.93 |
| 5 | 12.93 | 13.13 | 13.15 | 13.23 | 13.55 | 13.60 | 12.87 | 12.96 | 12.86 | 12.89 | 11.92 | 11.83 |
| 6 | 12.92 | 12.93 | 13.23 | 13.35 | 13.60 | 13.67 | 12.86 | 12.92 | 13.88 | 12.93 | 11.89 | 11.92 |
| 7 | 12.50 | 12.94 | ..... | ..... | 13.65 | 13.67 | 12.92 | 13.02 | 13.83 | 12.93 | 11.80 | 11.89 |
| 8 | ..... | ..... | ..... | ..... | 13.53 | 13.65 | 13.02 | 13.12 | 11.95 | 12.83 | 11.72 | 11.80 |
| 9 | ..... | ..... | ..... | ..... | 13.43 | 13.53 | 13.12 | 13.23 | 11.62 | 11.95 | 11.72 | 11.74 |
| 10 | 12.11 | 12.18 | 13.29 | 13.40 | 13.41 | 13.45 | 13.23 | 13.28 | 11.63 | 11.70 | 11.74 | 11.79 |
| 11 | 12.18 | 12.30 | ..... | ..... | 13.43 | 13.45 | 13.16 | 13.28 | 11.59 | 11.70 | 11.79 | 11.82 |
| 12 | 12.30 | 12.42 | ..... | ..... | 13.36 | 13.43 | 13.07 | 13.16 | ..... | ..... | 11.81 | 11.82 |
| 13 | 12.42 | 12.50 | 13.22 | 13.40 | ..... | ..... | 13.07 | 13.20 | 11.62 | 11.67 | 11.81 | 11.86 |
| 14 | 12.50 | 12.54 | ..... | ..... | ..... | ..... | 13.19 | 13.21 | 11.67 | 11.93 | 11.67 | 11.85 |
| 15 | 12.65 | 12.63 | 13.40 | 13.48 | ..... | ..... | 13.15 | 13.19 | 11.88 | 11.97 | 11.82 | 11.67 |
| 16 | 12.63 | 12.72 | ..... | ..... | 13.04 | 13.13 | 13.15 | 13.17 | ..... | ..... | 11.82 | 11.55 |
| 17 | 12.72 | 12.78 | 13.13 | 13.28 | 13.13 | 13.28 | ..... | ..... | ..... | ..... | 11.55 | 11.62 |
| 18 | 12.71 | 12.78 | 13.06 | 13.13 | 13.28 | 13.38 | ..... | ..... | ..... | ..... | 11.62 | 11.68 |
| 19 | 12.54 | 12.71 | ..... | ..... | ..... | ..... | 13.04 | 13.17 | 11.73 | 11.76 | ..... | ..... |
| 20 | 12.44 | 12.54 | 13.05 | 13.08 | ..... | ..... | 12.93 | 13.04 | 11.76 | 11.85 | ..... | ..... |
| 21 | 12.39 | 12.44 | 13.08 | 13.13 | ..... | ..... | 12.94 | 13.06 | 11.85 | 12.04 | ..... | ..... |
| 22 | 12.41 | 12.60 | 13.13 | 13.17 | ..... | ..... | 13.06 | 13.15 | 12.04 | 12.06 | ..... | ..... |
| 23 | 12.60 | 12.87 | 13.19 | 13.23 | 11.20 | 11.88 | 13.13 | 13.15 | 11.73 | 12.04 | ..... | ..... |
| 24 | 12.87 | 13.02 | ..... | ..... | 11.88 | 12.18 | 13.06 | 13.13 | 11.65 | 11.73 | ..... | ..... |
| 25 | 13.02 | 13.09 | 13.21 | 13.26 | 12.02 | 12.18 | 12.92 | 13.06 | 11.65 | 11.71 | ..... | ..... |
| 26 | 13.09 | 13.13 | 13.26 | 13.40 | 11.90 | 12.02 | 12.75 | 12.92 | 11.71 | 11.78 | ..... | ..... |
| 27 | 13.08 | 13.13 | 13.40 | 13.46 | 11.77 | 11.90 | 12.57 | 12.75 | 11.74 | 11.77 | ..... | ..... |
| 28 | 13.07 | 13.14 | 13.47 | 13.55 | 11.67 | 11.77 | 12.55 | 12.58 | 11.69 | 11.74 | ..... | ..... |
| 29 | 13.14 | 13.28 | 13.55 | 13.57 | 11.63 | 11.67 | 12.33 | 12.81 | 11.70 | 11.74 | ..... | ..... |
| 30 | 13.28 | 13.33 | ..... | ..... | ..... | ..... | 12.72 | 13.90 | 11.60 | 11.74 | ..... | ..... |
| 31 | 13.33 | 13.42 | 13.48 | 13.57 | ..... | ..... | 12.90 | 14.04 | ..... | ..... | ..... | ..... |

62-A (*945, p. 17; 987, p. 33; 1017, p. 138; 1024, p. 53; 1072, p. 62). Geological 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|--------|-------------|
| Jan. 8 | 11.64 | Apr. 9 | 10.87 | July 9 | 12.27 | Oct. 7 | 10.83 |
| 15 | 11.55 | 16 | 10.54 | 16 | 11.23 | 14 | 11.02 |
| 22 | 11.27 | 23 | 10.38 | 23 | 11.60 | 21 | 11.35 |
| 29 | 11.50 | 30 | 10.26 | 30 | 11.80 | 28 | 11.33 |
| Feb. 5 | 11.33 | May 7 | 10.67 | Aug. 6 | 11.89 | Nov. 3 | 11.31 |
| 12 | 11.40 | 14 | 10.90 | 13 | 11.75 | 12 | 11.11 |
| 19 | 11.71 | 21 | 11.05 | 20 | 11.83 | 19 | 10.85 |
| 26 | 11.65 | 28 | 11.09 | 27 | 11.87 | 26 | 10.48 |
| Mar. 5 | 11.82 | June 4 | 11.17 | Sept. 3 | 11.82 | Dec. 3 | 10.37 |
| 12 | 11.40 | 11 | 11.36 | 8 | 11.79 | 10 | 10.57 |
| 19 | 11.12 | 18 | 11.57 | 15 | 11.30 | 17 | 9.21 |
| 26 | 10.99 | 25 | 11.64 | 22 | 10.85 | 24 | 10.29 |
| Apr. 2 | 10.96 | July 2 | 11.55 | 30 | 10.50 | 31 | 10.47 |

Flagler County

5. George Brunner. In rear of residence, 2.5 miles north of Flagler Beach, on west side of U. S. Highway 1A1A, in sec. 35, T. 31 S., R. 11 E. Used drilled domestic well, diameter 4 inches, depth 105 feet, cased to 100 feet. Measuring point, $\frac{1}{2}$ -inch ell, 1.25 feet above land-surface datum and 8 feet above mean sea level. Record begins in 1934. Water levels, in feet above land-surface datum: June 25, 1934, 15.0; Oct. 8, 1947, 11.8; Nov. 19, 1947, 11.9.

Gadsden County

6 (*1072, p. 62). State of Florida. 1 mile south of Quincy at Florida Experimental Station, 2 feet west of pump house, in NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 2 N., R. 3 W. Water levels, in feet below land-surface datum, 1947: Apr. 18, 136.6; July 31, 137.7; Sept. 2, 137.0; Oct. 27, 137.72.

Gulf County

30 (*1072, p. 63). Apalachicola Northern Railroad. In Port St. Joe, at footings of old water tank north of depot, in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 1, T. 7 S., R. 11 W. Automatic water-stage recorder installed July 29, 1947. Water level, in feet below land-surface datum, 1947: Apr. 15, 16.9.

High and low daily water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | August | | September | | October | | November | | December | |
|-----|--------|-------|-----------|-------|---------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | ..... | ..... | 24.77 | 25.75 | ..... | ..... | 23.38 | 24.11 | 23.11 | 23.90 |
| 2 | ..... | ..... | 23.62 | 24.77 | ..... | ..... | 23.25 | 24.13 | 23.09 | 24.06 |
| 3 | ..... | ..... | 23.62 | 23.87 | 23.44 | 24.18 | 23.25 | 24.36 | 23.15 | 24.04 |
| 4 | ..... | ..... | 23.87 | 24.12 | ..... | ..... | 23.50 | 24.45 | 22.87 | 23.79 |
| 5 | ..... | ..... | 23.45 | 24.55 | ..... | ..... | 23.58 | 24.38 | 23.03 | 23.74 |
| 6 | 23.88 | 24.52 | 24.55 | 25.02 | ..... | ..... | 23.43 | 24.35 | 22.95 | 23.80 |
| 7 | 25.94 | 24.66 | 24.31 | 25.02 | ..... | ..... | 23.46 | 24.21 | 23.04 | 23.69 |
| 8 | 24.15 | 24.96 | 24.56 | 24.87 | ..... | ..... | 23.41 | 24.36 | 23.08 | 23.74 |
| 9 | ..... | ..... | 23.89 | 24.63 | ..... | ..... | 23.81 | 24.33 | 22.98 | 23.68 |
| 10 | 25.25 | 25.48 | 23.75 | 24.62 | ..... | ..... | 23.84 | 24.45 | 22.82 | 23.93 |
| 11 | 24.39 | 25.29 | 23.85 | 24.65 | ..... | ..... | 23.46 | 24.06 | 23.19 | 23.88 |
| 12 | 24.49 | 25.15 | 23.95 | 24.71 | ..... | ..... | 23.23 | 24.02 | 23.18 | 23.83 |
| 13 | 24.45 | 25.31 | 24.13 | 24.88 | ..... | ..... | 23.31 | 24.24 | 23.04 | 23.83 |
| 14 | 24.48 | 25.42 | 24.37 | 24.88 | ..... | ..... | 23.41 | 24.13 | 23.19 | 23.65 |
| 15 | 24.47 | 25.15 | 24.13 | 24.65 | ..... | ..... | 23.27 | 24.06 | 22.95 | 23.74 |
| 16 | 24.56 | 25.37 | 24.05 | 24.92 | ..... | ..... | 23.16 | 24.00 | 22.96 | 23.70 |
| 17 | 24.57 | 25.30 | 24.44 | 25.10 | ..... | ..... | 23.16 | 24.07 | 23.16 | 23.91 |
| 18 | 24.63 | 25.06 | 24.60 | 25.47 | ..... | ..... | 23.38 | 24.23 | 23.35 | 23.81 |

30--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | August | | September | | October | | November | | December | |
|-----|--------|-------|-----------|-------|---------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 19 | 24.35 | 25.15 | 22.97 | 24.60 | 23.03 | 23.81 | 23.30 | 24.10 | 23.02 | 23.38 |
| 20 | 24.38 | 25.15 | 22.34 | 23.31 | 22.86 | 23.65 | 23.27 | 23.97 | 22.86 | 23.90 |
| 21 | 24.32 | 25.08 | ..... | ..... | 23.00 | 23.60 | 23.08 | 23.74 | 23.05 | 23.68 |
| 22 | ..... | ..... | ..... | ..... | 22.87 | 23.61 | 23.14 | 23.97 | 23.10 | 23.69 |
| 23 | ..... | ..... | ..... | ..... | 23.07 | 23.65 | 23.33 | 24.07 | 23.42 | 23.22 |
| 24 | ..... | ..... | 23.28 | 24.26 | 22.89 | 23.65 | 23.48 | 24.23 | 23.07 | 23.85 |
| 25 | 24.67 | 25.65 | 23.32 | 24.07 | 22.64 | 23.48 | 23.52 | 24.12 | 21.15 | 23.07 |
| 26 | 24.74 | 25.43 | ..... | ..... | 22.66 | 23.35 | 23.38 | 23.97 | 20.28 | 21.15 |
| 27 | ..... | ..... | ..... | ..... | ..... | ..... | 23.28 | 23.86 | 19.65 | 20.28 |
| 28 | ..... | ..... | ..... | ..... | ..... | ..... | 23.22 | 23.88 | 18.78 | 19.67 |
| 29 | 24.95 | 25.54 | 23.10 | 23.83 | 22.70 | 23.32 | 23.35 | 23.94 | 18.78 | 19.98 |
| 30 | 24.86 | 25.64 | ..... | ..... | 22.86 | 23.75 | 23.13 | 23.60 | 19.98 | 20.80 |
| 31 | 24.21 | 25.75 | ..... | ..... | ..... | ..... | ..... | ..... | 20.41 | 20.75 |

Hendry County

G138 (*987, p. 34; 1017, p. 138; 1024, p. 53; 1072, p. 63).
Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 48 S.,
R. 32 E. No measurements made in 1947

G299 (*987, p. 35; 1017, p. 139; 1024, p. 53; 1072, p. 63).
Geological Survey, U. S. Dept. of Interior. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 22, T. 44 S.,
R. 32 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 31 | 2.77 | May 16 | 3.25 | Sept. 4 | 0.71 | Nov. 6 | 1.52 |
| Mar. 7 | 1.84 | June 19 | 1.02 | Oct. 6 | 1.52 | Dec. 17 | .89 |
| Apr. 10 | 2.31 | July 24 | 1.00 | | | | |

Hillsborough County

13 (*1072, p. 63). City of St. Petersburg. About 5 miles northeast
of Citrus Park, in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 21, T. 21 S., R. 18 E.

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

| Day | July | | August | | November | | December | |
|-----|-------|-------|--------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low |
| 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 2 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 3 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 7 | ..... | ..... | ..... | ..... | ..... | ..... | 7.88 | 8.02 |
| 8 | ..... | ..... | ..... | ..... | ..... | ..... | 7.93 | 8.06 |
| 9 | ..... | ..... | ..... | ..... | 7.25 | 7.35 | 7.97 | 8.06 |
| 10 | ..... | ..... | ..... | ..... | 7.30 | 7.40 | 7.93 | 8.04 |
| 11 | ..... | ..... | ..... | ..... | 7.36 | 7.41 | 7.91 | 7.98 |
| 12 | ..... | ..... | ..... | ..... | 7.37 | 7.45 | 7.90 | 7.97 |
| 13 | 6.56 | 6.62 | ..... | ..... | ..... | ..... | 7.93 | 7.97 |
| 14 | 6.60 | 6.68 | ..... | ..... | ..... | ..... | 7.95 | 8.02 |
| 15 | 6.63 | 6.70 | ..... | ..... | ..... | ..... | 8.02 | 8.09 |
| 16 | 6.65 | 6.72 | ..... | ..... | ..... | ..... | 8.07 | 8.15 |
| 17 | 6.68 | 6.75 | ..... | ..... | ..... | ..... | 8.12 | 8.18 |
| 18 | 6.75 | 6.80 | ..... | ..... | ..... | ..... | 8.13 | 8.22 |
| 19 | 6.81 | 6.92 | ..... | ..... | ..... | ..... | 8.16 | 8.23 |
| 20 | 6.85 | 6.95 | ..... | ..... | ..... | ..... | 8.13 | 8.22 |
| 21 | ..... | ..... | ..... | ..... | ..... | ..... | 8.15 | 8.36 |
| 22 | ..... | ..... | 6.11 | 6.21 | ..... | ..... | 8.34 | 8.42 |
| 23 | ..... | ..... | 6.16 | 6.25 | ..... | ..... | 8.30 | 8.42 |

13--Continued.

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

| Day | July | | August | | November | | December | |
|-----|------|------|--------|------|----------|------|----------|------|
| | High | Low | High | Low | High | Low | High | Low |
| 24 | | | 6.19 | 6.27 | .... | .... | 8.25 | 8.35 |
| 25 | | | 6.18 | 6.26 | .... | .... | 8.29 | 8.37 |
| 26 | | | 6.17 | 6.27 | .... | .... | 8.32 | 8.37 |
| 27 | | | 6.24 | 6.33 | .... | .... | 8.33 | 8.37 |
| 28 | | | | | | | 8.32 | 8.37 |
| 29 | | | | | | | 8.32 | 8.36 |
| 30 | | | | | | | 8.36 | 8.42 |
| 31 | | | | | | | 8.40 | 8.46 |

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | June | |
|-----|---------|------|----------|------|-------|------|-------|------|------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 8.43 | 8.52 | 8.74 | 8.84 | 7.85 | 7.96 | 7.08 | 7.19 | .... | .... |
| 2 | 8.43 | 8.53 | 8.70 | 8.80 | 7.75 | 7.95 | 6.99 | 7.13 | .... | .... |
| 3 | 8.42 | 8.53 | 8.53 | 8.68 | 7.91 | 7.98 | 7.00 | 7.12 | .... | .... |
| 4 | 8.45 | 8.57 | 8.40 | 8.57 | 7.90 | 7.98 | 7.07 | 7.16 | .... | .... |
| 5 | 8.47 | 8.57 | 8.56 | 8.67 | 7.87 | 7.97 | 7.12 | 7.21 | .... | .... |
| 6 | 8.50 | 8.60 | 8.52 | 8.65 | 7.82 | 7.92 | 7.20 | 7.29 | .... | .... |
| 7 | 8.53 | 8.60 | 8.42 | 8.52 | 7.72 | 7.88 | 7.25 | 7.31 | .... | .... |
| 8 | 8.53 | 8.60 | 8.46 | 8.58 | 7.69 | 7.82 | 7.25 | 7.30 | 8.57 | 8.60 |
| 9 | 8.58 | 8.65 | 8.57 | 8.62 | 7.82 | 7.88 | 7.25 | 7.32 | 8.58 | 8.62 |
| 10 | 8.60 | 8.68 | 8.62 | 8.66 | 7.86 | 7.88 | 7.30 | 7.40 | 8.61 | 8.65 |
| 11 | 8.57 | 8.64 | 8.57 | 8.65 | 7.88 | 7.95 | 7.39 | 7.44 | 8.57 | 8.61 |
| 12 | 8.58 | 8.63 | 8.51 | 8.57 | 7.94 | 7.97 | 7.33 | 7.48 | 8.57 | 8.65 |
| 13 | 8.61 | 8.68 | 8.29 | 8.51 | 7.92 | 7.96 | 7.13 | 7.34 | 8.62 | 8.68 |
| 14 | 8.66 | 8.72 | 8.21 | 8.29 | 7.83 | 7.95 | 7.07 | 7.16 | 8.52 | 8.65 |
| 15 | 8.70 | 8.76 | 8.15 | 8.22 | 7.60 | 7.85 | 7.05 | 7.13 | 8.29 | 8.55 |
| 16 | 8.70 | 8.80 | 8.14 | 8.20 | 7.48 | 7.60 | 6.98 | 7.10 | 8.14 | 8.31 |
| 17 | 8.74 | 8.82 | 8.15 | 8.24 | 7.51 | 7.58 | 6.98 | 7.07 | 8.07 | 8.18 |
| 18 | 8.74 | 8.81 | 8.17 | 8.25 | 7.43 | 7.54 | 7.01 | 7.09 | 7.94 | 8.12 |
| 19 | 8.69 | 8.78 | 8.12 | 8.23 | 7.14 | 7.48 | 6.96 | 7.06 | 7.80 | 7.95 |
| 20 | 8.69 | 8.75 | 7.96 | 8.17 | 7.10 | 7.18 | 6.95 | 7.03 | 7.71 | 7.81 |
| 21 | 8.70 | 8.85 | 8.05 | 8.14 | 7.08 | 7.17 | 6.97 | 7.05 | 7.71 | 7.75 |
| 22 | 8.78 | 8.85 | 8.08 | 8.16 | 7.08 | 7.15 | 7.04 | 7.17 | 7.70 | 7.73 |
| 23 | 8.69 | 8.84 | 7.97 | 8.13 | 7.05 | 7.16 | 7.16 | 7.23 | 7.68 | 7.75 |
| 24 | 8.62 | 8.75 | 7.98 | 8.11 | 6.97 | 7.10 | .... | .... | 7.73 | 7.80 |
| 25 | 8.60 | 8.67 | 8.11 | 8.16 | 6.98 | 7.16 | .... | .... | 7.78 | 7.85 |
| 26 | 8.60 | 8.63 | 8.13 | 8.17 | 7.16 | 7.22 | .... | .... | 7.75 | 7.87 |
| 27 | 8.63 | 8.70 | 8.11 | 8.17 | 7.15 | 7.22 | .... | .... | 7.67 | 7.75 |
| 28 | 8.70 | 8.73 | 7.96 | 8.11 | 7.14 | 7.22 | .... | .... | 7.60 | 7.72 |
| 29 | 8.70 | 8.74 | .... | .... | 7.20 | 7.23 | .... | .... | 7.58 | 7.66 |
| 30 | 8.68 | 8.75 | .... | .... | 7.16 | 7.26 | .... | .... | 7.60 | 7.70 |
| 31 | 8.72 | 8.83 | .... | .... | 7.15 | 7.23 | .... | .... | .... | .... |

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | |
|-----|------|------|--------|------|-----------|------|---------|------|
| | High | Low | High | Low | High | Low | High | Low |
| 1 | 7.58 | 7.68 | 6.04 | 6.13 | 5.66 | 5.75 | 5.52 | 5.65 |
| 2 | 7.57 | 7.64 | 6.09 | 6.17 | 5.73 | 5.80 | 5.62 | 5.70 |
| 3 | 7.52 | 7.62 | 6.15 | 6.22 | 5.78 | 5.85 | 5.68 | 5.72 |
| 4 | 7.52 | 7.60 | 6.15 | 6.22 | 5.71 | 5.81 | 5.70 | 5.74 |
| 5 | 7.58 | 7.65 | 6.13 | 6.17 | 5.63 | 5.71 | 5.72 | 5.76 |
| 6 | 7.62 | 7.68 | 6.15 | 6.23 | 5.58 | 5.66 | 5.73 | 5.78 |
| 7 | 7.66 | 7.70 | 6.22 | 6.28 | 5.50 | 5.60 | 5.78 | 5.87 |
| 8 | 7.55 | 7.77 | 6.09 | 6.23 | 5.43 | 5.52 | 5.87 | 5.97 |
| 9 | 7.42 | 7.55 | 6.00 | 6.09 | 5.42 | 5.50 | 5.96 | 6.05 |
| 10 | 7.28 | 7.42 | 5.99 | 6.05 | 5.37 | 5.47 | 6.00 | 6.10 |
| 11 | 7.16 | 7.30 | 5.94 | 5.99 | 5.38 | 5.47 | 5.98 | 6.08 |
| 12 | 7.02 | 7.18 | 5.85 | 5.95 | 5.37 | 5.49 | 6.00 | 6.14 |
| 13 | 6.95 | 7.05 | 5.73 | 5.92 | 5.37 | 5.47 | 6.08 | 6.16 |
| 14 | 6.88 | 7.02 | 5.58 | 5.77 | 5.42 | 5.60 | 6.03 | 6.15 |
| 15 | 6.85 | 6.94 | 5.55 | 5.64 | 5.41 | 5.49 | 5.98 | 6.09 |

13--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | |
|-----|------|------|--------|------|-----------|------|---------|------|
| | High | Low | High | Low | High | Low | High | Low |
| 16 | 6.73 | 6.92 | 5.47 | 5.62 | 5.48 | 5.49 | .... | .... |
| 17 | 6.84 | 6.94 | 5.42 | 5.53 | 5.42 | 5.50 | .... | .... |
| 18 | 6.87 | 6.99 | 5.36 | 5.45 | 5.30 | 5.42 | .... | .... |
| 19 | 6.72 | 6.90 | 5.30 | 5.41 | 5.30 | 5.37 | .... | .... |
| 20 | 6.65 | 6.72 | 5.30 | 5.36 | 5.27 | 5.32 | .... | .... |
| 21 | 6.56 | 6.65 | 5.33 | 5.36 | 5.27 | 5.32 | .... | .... |
| 22 | 6.56 | 6.60 | 5.29 | 5.33 | 5.12 | 5.30 | .... | .... |
| 23 | 6.55 | 6.67 | 5.31 | 5.35 | 4.92 | 5.12 | .... | .... |
| 24 | 6.50 | 6.55 | 5.35 | 5.45 | 5.05 | 5.19 | .... | .... |
| 25 | 6.40 | 6.52 | 5.45 | 5.54 | 5.17 | 5.25 | .... | .... |
| 26 | 6.34 | 6.42 | 5.53 | 5.62 | 5.21 | 5.28 | .... | .... |
| 27 | 6.25 | 6.36 | 5.60 | 5.70 | 5.23 | 5.33 | .... | .... |
| 28 | 6.20 | 6.28 | 5.68 | 5.76 | 5.28 | 5.40 | .... | .... |
| 29 | 6.18 | 6.26 | 5.56 | 5.79 | 5.36 | 5.48 | .... | .... |
| 30 | 6.15 | 6.23 | 5.60 | 5.69 | 5.42 | 5.55 | .... | .... |
| 31 | 6.06 | 6.17 | 5.62 | 5.70 | .... | .... | .... | .... |

Holmes County

4. Mrs. D. Hughes. At Ponce de Leon, south of railroad and east of depot on west side of pump house. Used drilled public-supply well, diameter 6 inches, depth 187 feet. Measuring point, top of 6-inch tee, 2.0 feet above land-surface datum and 63.8 feet above mean sea level. Water levels, in feet above land-surface datum, 1947: Sept. 2, 3.55; Oct. 27, 3.52.

7. Charles McAllister. Wynnum, on south side of Louisville & Nashville Railroad tracks, in a field. Unused drilled industrial well, diameter 6 inches, depth 205 feet, cased to 170 feet. Measuring point, top of 6-inch casing, 0.80 foot above land-surface datum. Water levels, in feet below land-surface datum, 1947: Sept. 4, 9.96; Oct. 27, 10.57.

Jackson County

11 (*1072, p. 65). Mose Speight. Formerly owned by Aycock Lumber Co. 3 miles west of Cottondale, on west side of U. S. Highway 90, in a field, in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 34, T. 5 N., R. 12 W. Water levels, in feet below land-surface datum, 1947: Apr. 18, 21.8; July 31, 23.75; Sept. 2, 22.45; Oct. 27, 29.53.

14 (*1072, p. 65). W. C. McRae. Formerly owned by First National Bank of Dothan. 0.5 mile north of Campbellton, on east side of U. S. Highway 23, in pump house, 75 feet north of farmhouse, in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 2, T. 6 N., R. 12 W. Water levels, in feet below land-surface datum, 1947: Apr. 18, 28.16; July 31, 21.05; Sept. 2, 30.45; Oct. 27, 37.69.

Lee County

246 (*1024, p. 63; 1072, p. 67). Geological Survey, U. S. Dept. of Interior. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 20, T. 44 S., R. 25 E.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | | Low level | Week ending | High level | | Low level |
|-------------|------------|--|-----------|-------------|------------|--|-----------|
| | | | | | | | |
| Feb. 11 | 2.25 | | 3.55 | Apr. 15 | 1.11 | | 2.28 |
| 18 | 1.79 | | 2.55 | 22 | 1.71 | | 2.45 |
| 25 | 1.76 | | 2.49 | 29 | 2.33 | | 2.86 |
| Mar. 4 | .29 | | 2.56 | May 6 | 2.23 | | 3.12 |
| 11 | .53 | | 1.40 | 13 | 2.08 | | 3.83 |
| 18 | .40 | | 1.39 | 20 | 2.66 | | 3.20 |
| 25 | .26 | | 1.33 | 27 | .32 | | 3.38 |
| Apr. 1 | 1.26 | | 1.78 | June 3 | .35 | | 1.18 |
| 8 | 1.19 | | 2.02 | 10 | .36 | | 1.42 |

246--Continued.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| June 17 | 0.21 | 1.33 | Aug. 26 | 0.40 | 1.20 |
| 24 | .28 | 1.18 | Sept. 2 | .60 | 1.50 |
| July 1 | .38 | 1.17 | 9 | .29 | 1.67 |
| 8 | .24 | 1.06 | 16 | .31 | 1.38 |
| 15 | .33 | .85 | Nov. 25 | 2.45 | 4.19 |
| 22 | .31 | .95 | Dec. 2 | 1.64 | 4.16 |
| 29 | .22 | .81 | 9 | 1.94 | 3.84 |
| Aug. 5 | .32 | 1.12 | 16 | 3.31 | 5.15 |
| 12 | .45 | 1.19 | 23 | 3.50 | 5.13 |
| 19 | .28 | .80 | | | |

418 (*1072, p. 67). U. S. Army. Sec. 9, T. 44 S., R. 26 E.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Jan. 7 | 5.28 | 9.61 | June 3 | 3.79 | 7.11 |
| 14 | 5.26 | 8.29 | 10 | 3.67 | 8.83 |
| 21 | 5.36 | 9.60 | 17 | 2.25 | 8.37 |
| 28 | 5.46 | 9.76 | 24 | 2.15 | 4.91 |
| Feb. 4 | 5.50 | 9.78 | July 1 | 3.02 | 6.62 |
| 11 | 5.03 | 9.57 | 8 | 2.73 | 3.49 |
| 18 | 4.86 | 9.02 | 15 | 2.29 | 2.91 |
| 25 | 4.87 | 9.14 | Sept. 30 | 1.91 | 7.80 |
| Mar. 4 | 3.59 | 9.62 | Oct. 7 | 3.84 | 7.26 |
| 11 | 3.88 | 8.45 | 14 | 2.83 | 5.84 |
| 18 | 3.53 | 8.50 | 21 | 2.25 | 5.63 |
| 25 | 2.62 | 8.03 | 28 | 3.10 | 5.69 |
| Apr. 1 | 3.85 | 8.77 | Nov. 4 | 3.52 | 5.72 |
| 8 | 3.90 | 8.51 | 11 | 4.10 | 6.17 |
| 15 | 4.02 | 8.63 | 18 | 4.01 | 6.14 |
| 22 | 4.22 | 8.07 | 25 | 4.05 | 6.20 |
| 29 | 4.62 | 8.79 | Dec. 2 | 3.53 | 6.00 |
| May 6 | 4.98 | 9.51 | 9 | 3.94 | 8.15 |
| 13 | 5.32 | 9.08 | 16 | 4.05 | 6.77 |
| 20 | 5.75 | 9.47 | 23 | 3.53 | 8.11 |
| 27 | 4.47 | 10.72 | 30 | 4.15 | 7.06 |

Leon County5 (*1072, p. 68). City of Tallahassee. Gadsden and Gaines Streets, in pump house, in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 1, T. 1 S., R. 1 W. Measurements supplied by city of Tallahassee.

Water level, in feet below land-surface datum, 1947

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|------|------|------|------|-------|------|------|------|
| 1 | 101.1 | 101.8 | 102.2 | 101.2 | 97.1 | 97.6 | .... | 96.4 | 97.1 | 98.1 | 99.1 | 95.9 |
| 2 | 101.1 | 101.9 | 102.1 | 100.7 | 97.1 | 97.6 | .... | 96.4 | 97.1 | 98.1 | 99.1 | 95.9 |
| 3 | 101.1 | 101.9 | 102.2 | 100.6 | 97.0 | 97.6 | .... | 96.6 | 97.2 | 98.1 | 99.1 | 95.9 |
| 4 | 101.1 | 101.9 | 102.2 | 100.6 | 97.0 | 97.6 | .... | 96.8 | 97.2 | 98.1 | 99.1 | 95.9 |
| 5 | 101.2 | 101.9 | 102.2 | 100.4 | 97.0 | .... | .... | 96.8 | 97.2 | 98.1 | 99.1 | 95.9 |
| 6 | 101.2 | 101.9 | 102.2 | 100.1 | 97.1 | 97.6 | .... | 96.8 | 97.3 | 98.1 | 98.9 | 95.9 |
| 7 | 101.3 | 101.8 | 102.1 | 100.0 | 97.1 | 97.7 | .... | 96.8 | 97.3 | 98.1 | 98.8 | 95.2 |
| 8 | 101.3 | 101.8 | 102.1 | 99.8 | 97.2 | 97.7 | .... | 96.8 | 97.3 | 98.2 | 98.7 | 95.1 |
| 9 | 101.4 | 101.9 | 102.1 | 99.6 | 97.2 | 97.7 | .... | 96.8 | 97.4 | 98.3 | 98.7 | 95.1 |
| 10 | 101.5 | 102.0 | 102.1 | 99.5 | 97.3 | 97.9 | .... | 96.9 | 97.4 | 98.3 | 98.7 | 95.1 |
| 11 | 101.5 | 102.1 | 102.1 | 99.4 | 97.4 | 97.9 | .... | 96.9 | 97.5 | 98.3 | 98.3 | 95.1 |
| 12 | 101.5 | 102.1 | 102.1 | 99.3 | 97.5 | 97.8 | .... | 96.9 | 97.5 | 98.4 | 98.1 | 95.0 |
| 13 | 101.5 | 102.1 | 102.0 | 99.2 | 97.5 | 97.7 | .... | 97.0 | 97.6 | 98.5 | 97.8 | 95.0 |
| 14 | 101.4 | 102.1 | 101.8 | 99.1 | 97.5 | 97.7 | 95.9 | 97.0 | 97.6 | 98.5 | 97.8 | 95.0 |
| 15 | 101.5 | 102.0 | 101.7 | 99.1 | 97.5 | 97.7 | 95.9 | 97.0 | 97.7 | 98.6 | 97.4 | 95.0 |
| 16 | 101.5 | 102.1 | 101.6 | 98.9 | 97.6 | 97.6 | 95.9 | 97.1 | 97.7 | 98.6 | 97.1 | 95.0 |

5--Continued.

Water level, in feet below land-surface datum, 1947

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|------|------|------|------|------|-------|------|------|------|
| 17 | 101.6 | 102.1 | 101.6 | 98.6 | 97.6 | 97.2 | 95.9 | 97.1 | 97.7 | 98.6 | 97.1 | 95.0 |
| 18 | 101.6 | 102.1 | 101.7 | 98.2 | 97.6 | 97.1 | 95.9 | 97.1 | 97.7 | 98.6 | 97.0 | 95.0 |
| 19 | 101.6 | 102.1 | 101.6 | 97.9 | 97.6 | 97.0 | 96.0 | 97.1 | 97.8 | 98.6 | 96.9 | 95.0 |
| 20 | 101.5 | 102.1 | 101.6 | 97.7 | 97.7 | 96.9 | 96.0 | 97.1 | 97.9 | 98.7 | 96.8 | 95.0 |
| 21 | 101.6 | 102.1 | 101.5 | 97.6 | 97.7 | 96.7 | 96.1 | 97.1 | 97.9 | 98.7 | 96.7 | 94.9 |
| 22 | 101.7 | 102.2 | 101.5 | 97.6 | .... | 96.7 | 96.1 | 97.1 | 97.9 | .... | 96.2 | 94.9 |
| 23 | 101.7 | 102.2 | 101.5 | 97.5 | .... | .... | 96.1 | 97.0 | 97.9 | .... | 96.0 | 94.9 |
| 24 | 101.6 | 102.2 | 101.4 | 97.4 | .... | .... | 96.4 | 97.0 | 97.9 | 98.9 | 95.9 | 94.9 |
| 25 | 101.6 | 102.2 | 101.4 | 97.3 | .... | .... | 96.4 | 97.0 | 98.0 | 98.9 | 95.9 | 94.9 |
| 26 | 101.6 | 102.3 | 101.5 | 97.2 | .... | .... | 96.3 | 97.0 | 98.0 | 98.9 | 95.9 | 94.9 |
| 27 | 101.7 | 102.3 | 101.5 | 97.1 | 97.7 | .... | 96.3 | 96.9 | 98.0 | 98.9 | 95.9 | 95.0 |
| 28 | 101.8 | 102.3 | 101.4 | 97.1 | 97.6 | .... | 96.2 | 96.9 | 98.0 | 99.0 | 95.9 | 95.0 |
| 29 | 101.7 | .... | 101.4 | 97.1 | 97.6 | .... | 96.6 | 96.9 | 98.0 | 99.0 | 95.9 | 94.9 |
| 30 | 101.7 | .... | 101.4 | 97.1 | 97.6 | .... | 96.6 | 96.9 | 98.0 | 99.1 | 95.9 | 94.9 |
| 31 | 101.8 | .... | 101.3 | .... | 97.6 | .... | 96.5 | 96.9 | .... | 99.1 | .... | 94.9 |

7 (*1072, p. 76). City of Tallahassee. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, T. 1 N., R. 1 W., in Lafayette Park, at Gadsden and Williams Streets, in pump house.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | |
|-----|---------|--------|----------|--------|--------|--------|--------|--------|
| | High | Low | High | Low | High | Low | High | Low |
| 1 | 161.18 | 162.53 | 161.93 | 163.30 | 162.23 | 163.57 | 161.39 | 162.71 |
| 2 | 161.25 | 162.55 | .... | .... | 162.27 | 163.61 | 160.95 | 162.30 |
| 3 | 161.25 | 162.59 | .... | .... | 162.37 | 163.71 | 160.85 | 162.18 |
| 4 | 161.29 | 162.61 | 161.77 | 163.16 | 162.35 | 163.74 | 160.76 | 162.08 |
| 5 | 161.27 | 162.56 | 161.98 | 163.31 | 162.33 | 163.68 | 160.50 | 161.88 |
| 6 | 161.37 | 162.71 | 161.95 | 163.24 | 162.27 | 163.65 | 160.34 | 161.71 |
| 7 | 161.38 | 162.71 | 161.85 | 163.20 | 162.26 | 163.57 | 160.27 | 161.52 |
| 8 | 161.38 | 162.71 | 161.95 | 163.36 | 162.11 | 163.55 | 159.94 | 161.33 |
| 9 | .... | .... | 162.07 | 163.37 | 162.25 | 163.55 | 159.83 | 161.18 |
| 10 | .... | .... | 162.13 | 163.45 | 162.22 | 163.50 | 159.78 | 161.10 |
| 11 | .... | .... | 162.12 | 163.46 | 162.20 | 163.51 | 159.67 | 161.00 |
| 12 | .... | .... | 162.10 | 163.45 | 162.15 | 163.48 | 159.55 | 160.92 |
| 13 | 161.60 | 162.92 | 162.11 | 163.46 | 162.07 | 163.36 | 159.48 | 160.80 |
| 14 | 161.58 | 162.92 | 162.09 | 163.43 | 161.92 | 163.28 | 159.41 | 160.72 |
| 15 | 161.52 | 162.94 | 162.10 | 163.41 | 161.88 | 163.22 | 159.30 | 160.70 |
| 16 | 161.62 | 162.94 | 162.15 | 163.45 | 161.84 | 163.16 | .... | .... |
| 17 | 161.63 | 163.00 | 162.17 | 163.57 | 161.82 | 163.15 | .... | .... |
| 18 | 161.66 | 162.97 | .... | .... | 161.83 | 163.20 | .... | .... |
| 19 | 161.60 | 162.86 | .... | .... | 161.57 | 163.00 | .... | .... |
| 20 | 161.53 | 162.94 | .... | .... | 161.69 | 163.05 | .... | .... |
| 21 | 161.71 | 163.14 | .... | .... | 161.67 | 163.02 | .... | .... |
| 22 | 161.83 | 163.17 | .... | .... | 161.67 | 163.05 | 157.83 | 159.16 |
| 23 | 161.78 | 163.11 | .... | .... | 161.65 | 162.95 | 157.73 | 159.12 |
| 24 | 161.76 | 163.07 | .... | .... | 161.45 | 162.79 | 157.40 | 158.96 |
| 25 | 161.72 | 163.07 | 162.38 | 163.72 | 161.50 | 162.95 | .... | .... |
| 26 | 161.74 | 163.04 | 162.41 | 163.75 | 161.62 | 162.95 | .... | .... |
| 27 | 161.81 | 163.18 | 162.40 | 163.76 | 161.51 | 162.88 | .... | .... |
| 28 | 161.87 | 163.22 | 162.38 | 163.70 | 161.45 | 162.90 | .... | .... |
| 29 | 161.87 | 163.22 | .... | .... | 161.55 | 162.88 | 157.30 | 158.68 |
| 30 | 161.87 | 163.21 | .... | .... | 161.46 | 162.81 | 157.27 | 158.63 |
| 31 | 161.92 | 163.25 | .... | .... | 161.43 | 162.77 | .... | .... |

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | May | | June | | July | | August | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| | High | Low | High | Low | High | Low | High | Low |
| 1 | 157.15 | 158.63 | 157.89 | 159.27 | 155.97 | 157.31 | 156.79 | 156.87 |
| 2 | 157.15 | 158.56 | 157.87 | 159.21 | 155.90 | 157.28 | 156.85 | 156.97 |
| 3 | 157.14 | 158.53 | 157.82 | 159.21 | 155.88 | 157.22 | 156.90 | 157.02 |
| 4 | 157.28 | 158.65 | 157.82 | 159.23 | 155.91 | 155.97 | 156.90 | 158.30 |
| 5 | 157.23 | 158.66 | 157.90 | 159.27 | 155.93 | 157.28 | 156.86 | 156.95 |
| 6 | 157.27 | 158.68 | 157.87 | 159.45 | 155.92 | 155.97 | 156.82 | 157.06 |
| 7 | 157.32 | 158.68 | 157.85 | 159.20 | 155.93 | 157.30 | 156.97 | 158.37 |

7--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | May | | June | | July | | August | |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| | High | Low | High | Low | High | Low | High | Low |
| 8 | 157.35 | 158.74 | 157.83 | 159.13 | 158.91 | 157.32 | 157.05 | 158.35 |
| 9 | 157.42 | 158.77 | 157.85 | 159.21 | 155.90 | 157.30 | 156.98 | 157.05 |
| 10 | 157.46 | 158.84 | 157.89 | 159.28 | 155.93 | 157.32 | 157.03 | 157.15 |
| 11 | 157.56 | 158.89 | 157.91 | 159.27 | 155.98 | 156.07 | 157.15 | 157.23 |
| 12 | 157.57 | 158.92 | 157.85 | 159.22 | 156.03 | 156.11 | 157.18 | 157.27 |
| 13 | 157.52 | 158.91 | 157.88 | 159.21 | 156.06 | 156.12 | 157.17 | 157.24 |
| 14 | 157.53 | 158.95 | 157.65 | 159.13 | 156.11 | 157.43 | 157.17 | 157.27 |
| 15 | 157.57 | 159.00 | 157.50 | 159.11 | 156.07 | 156.15 | 157.13 | 158.35 |
| 16 | 157.63 | 159.08 | 157.41 | 159.13 | 156.10 | 157.53 | 157.12 | 158.45 |
| 17 | 157.72 | 159.13 | 157.34 | 158.66 | 156.17 | 156.27 | ..... | ..... |
| 18 | 157.74 | 159.10 | 157.23 | 158.60 | 156.20 | 156.37 | ..... | ..... |
| 19 | 157.76 | 159.16 | 157.07 | 158.73 | 156.24 | 156.31 | 157.08 | 157.13 |
| 20 | 157.78 | 159.18 | 156.93 | 158.33 | 156.24 | 156.32 | 157.06 | 158.41 |
| 21 | 157.80 | 159.20 | 156.77 | 158.17 | 156.30 | 156.37 | 157.07 | 157.12 |
| 22 | 157.83 | 159.31 | 156.63 | 157.94 | 156.36 | 157.73 | 157.03 | 158.39 |
| 23 | 157.98 | 159.35 | 154.98 | 157.83 | 156.45 | 156.62 | 156.97 | 157.05 |
| 24 | 158.00 | 159.36 | 154.87 | 156.24 | 156.62 | 156.68 | 156.97 | 157.02 |
| 25 | 158.03 | 159.38 | 154.84 | 156.18 | 156.67 | 156.74 | 156.99 | 158.35 |
| 26 | 158.02 | 159.42 | 154.79 | 156.12 | 156.67 | 156.75 | 157.01 | 158.34 |
| 27 | 157.97 | 159.23 | 154.70 | 156.07 | 156.63 | 156.69 | 156.97 | 157.09 |
| 28 | 157.77 | 159.12 | 154.65 | 155.95 | 156.64 | 158.02 | 157.01 | 157.10 |
| 29 | 157.77 | 159.12 | 154.55 | 155.85 | 156.68 | 156.81 | 157.06 | 158.45 |
| 30 | 157.78 | 159.13 | 156.04 | 157.39 | 156.74 | 156.81 | 157.10 | 157.17 |
| 31 | 157.88 | 159.28 | ..... | ..... | 156.77 | 156.84 | 157.11 | 157.17 |

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | September | | October | | November | | December | |
|-----|-----------|--------|---------|--------|----------|--------|----------|--------|
| | High | Low | High | Low | High | Low | High | Low |
| 1 | 157.17 | 157.22 | ..... | ..... | 158.88 | 159.12 | 155.75 | 157.12 |
| 2 | 157.19 | 158.57 | ..... | ..... | 158.70 | 158.98 | 155.68 | 155.77 |
| 3 | 157.25 | 157.57 | ..... | ..... | 158.69 | 160.06 | 155.66 | 157.02 |
| 4 | 157.31 | 158.67 | 158.25 | 158.32 | 158.75 | 158.83 | 155.53 | 155.63 |
| 5 | 157.33 | 157.39 | 158.25 | 158.33 | 158.70 | 160.05 | 155.47 | 155.62 |
| 6 | 157.37 | 157.45 | 158.32 | 159.69 | 158.67 | 158.75 | 155.45 | 156.85 |
| 7 | 157.44 | 157.50 | 158.20 | 158.36 | 158.57 | 159.92 | 155.41 | 155.48 |
| 8 | 157.47 | 157.84 | 158.28 | 159.67 | ..... | ..... | 155.43 | 155.40 |
| 9 | 157.51 | 157.58 | 158.40 | 158.46 | ..... | ..... | 155.45 | 156.81 |
| 10 | 157.57 | 157.66 | 158.44 | 159.82 | ..... | ..... | 155.45 | 156.80 |
| 11 | 157.35 | 157.68 | 158.49 | 158.58 | 158.14 | 158.38 | 155.25 | 155.44 |
| 12 | 157.61 | 159.02 | 158.55 | 158.65 | 158.05 | 158.25 | 155.28 | 156.67 |
| 13 | 157.65 | 157.79 | 158.62 | 158.69 | 157.95 | 158.06 | 155.18 | 155.35 |
| 14 | 157.74 | 157.85 | 158.61 | 159.97 | 157.80 | 157.95 | 155.23 | 155.33 |
| 15 | 157.81 | 157.89 | 158.53 | 158.64 | 157.64 | 157.80 | 155.10 | 156.42 |
| 16 | 157.82 | 157.90 | 158.50 | 158.79 | 157.60 | 157.67 | 155.16 | 155.30 |
| 17 | ..... | ..... | 158.76 | 160.17 | 157.50 | 157.60 | 155.22 | 156.58 |
| 18 | ..... | ..... | ..... | ..... | 157.26 | 157.50 | 155.15 | 155.24 |
| 19 | ..... | ..... | ..... | ..... | 157.15 | 157.27 | 155.13 | 156.52 |
| 20 | ..... | ..... | ..... | ..... | 157.08 | 157.16 | 155.10 | 155.16 |
| 21 | ..... | ..... | 158.91 | 160.30 | 156.95 | 157.09 | 154.95 | 156.07 |
| 22 | ..... | ..... | 158.96 | 159.02 | 156.61 | 158.08 | 154.97 | 155.03 |
| 23 | 157.99 | 158.09 | 158.98 | 160.31 | 156.38 | 156.61 | 154.92 | 154.99 |
| 24 | 157.97 | 159.36 | 158.98 | 160.30 | 156.24 | 156.40 | 154.94 | 156.33 |
| 25 | 158.05 | 158.17 | 159.02 | 159.09 | 156.26 | 157.63 | 154.89 | 155.02 |
| 26 | 158.14 | 158.22 | 159.02 | 159.08 | 156.09 | 156.28 | 154.91 | 155.03 |
| 27 | 158.14 | 159.53 | 159.00 | 159.08 | 156.02 | 156.15 | 154.92 | 155.01 |
| 28 | 158.14 | 158.22 | 159.02 | 159.11 | 155.98 | 157.35 | 154.85 | 154.94 |
| 29 | 158.13 | 158.22 | 159.03 | 160.40 | 155.88 | 156.03 | 154.87 | 156.28 |
| 30 | ..... | ..... | 159.05 | 159.13 | 155.75 | 155.89 | 154.92 | 155.00 |
| 31 | ..... | ..... | 159.08 | 160.46 | ..... | ..... | 154.89 | 156.31 |

36 (#987, p. 35; 1017, p. 154; 1024, p. 63). Dawkins Pond Church. Near line of SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 30, T. 3 N., R. 2 E., in front of church, 70 feet west of U. S. Highway 319, 14.8 miles northeast of Tallahassee. Measuring point, beginning Aug. 1, 1947, top of 1 $\frac{1}{2}$ -inch pipe, 0.11 foot below bench mark 36, 2.58 feet above land-surface datum, and approximately 107.58 feet above mean sea level.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|--------|-------------|---------|-------------|
| Jan. 31 | 22.15 | Apr. 30 | 11.61 | Oct. 3 | 17.71 | Nov. 28 | 5.86 |
| Feb. 28 | 22.68 | Aug. 1 | 13.17 | Nov. 3 | 11.77 | Dec. 31 | 6.01 |
| Mar. 31 | 20.49 | 29 | 15.96 | | | | |

66 (#1072, p. 79). Bureau of Prisons, U. S. Dept. of Justice. At Federal correctional institution, 4 miles east of Tallahassee, sec. 34, T. 1 N., R. 1 E. Measurements supplied by Mr. Alfred E. Ogram, warden.

Water level, in feet below land-surface datum, 1945

| Day | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | ..... | 145.7 | 146.4 | 146.5 | 145.1 | 143.5 | 142.9 | 144.1 | 145.1 |
| 2 | ..... | 145.8 | 146.4 | 146.4 | 144.9 | 143.5 | 142.9 | 144.1 | 145.1 |
| 3 | 145.5 | 145.8 | 146.2 | 146.5 | 144.9 | 143.4 | 143.0 | 144.1 | 145.1 |
| 4 | 145.5 | 145.8 | 146.5 | 146.5 | 144.9 | 143.4 | 143.0 | 144.1 | 145.0 |
| 5 | 145.5 | 145.8 | 146.4 | 146.5 | 144.9 | 143.4 | 143.0 | 144.2 | 145.1 |
| 6 | 145.5 | 145.8 | 146.9 | 146.5 | 144.9 | 143.4 | 143.0 | 144.3 | 145.1 |
| 7 | 145.5 | 145.8 | 146.7 | 146.5 | 144.9 | 143.4 | 143.1 | 144.3 | 145.1 |
| 8 | 145.5 | 145.8 | 147.0 | 146.7 | 144.9 | 143.4 | 143.1 | 144.3 | 145.1 |
| 9 | 145.5 | 145.8 | 146.7 | 146.6 | 144.7 | 143.4 | 143.2 | 144.4 | 145.2 |
| 10 | 145.6 | 145.8 | 147.2 | 146.6 | 144.7 | 143.4 | 143.1 | 144.3 | 145.3 |
| 11 | 145.6 | 145.8 | 147.2 | 146.5 | 144.7 | 143.3 | 143.1 | 144.4 | 145.3 |
| 12 | 145.9 | 145.9 | 146.7 | 146.5 | 144.7 | 143.3 | 143.1 | 144.3 | 145.3 |
| 13 | 145.8 | 145.8 | 146.7 | 146.4 | 144.7 | 143.3 | 143.1 | 144.4 | 145.3 |
| 14 | 145.7 | 145.8 | 146.7 | 146.4 | 144.6 | 143.3 | 143.1 | 144.4 | 145.3 |
| 15 | 145.9 | 145.8 | 146.5 | 146.4 | 144.6 | 143.2 | 143.3 | 144.4 | 145.3 |
| 16 | 145.9 | 145.8 | 146.7 | 146.4 | 144.5 | 143.0 | 143.5 | 144.4 | 145.3 |
| 17 | 145.7 | 145.8 | 146.6 | 146.5 | 144.4 | 143.0 | 143.6 | 144.5 | 145.3 |
| 18 | 145.7 | 146.0 | 146.6 | 146.4 | 144.4 | 143.0 | 143.7 | 144.5 | 145.1 |
| 19 | 145.8 | 146.0 | 146.6 | 146.3 | 144.3 | 143.0 | 143.7 | 144.6 | 145.2 |
| 20 | 145.8 | 146.0 | 146.7 | 146.2 | 144.2 | 142.9 | 143.6 | 144.7 | 145.2 |
| 21 | 145.7 | 146.1 | 146.7 | 146.2 | 144.1 | 142.9 | 143.7 | 144.7 | 145.2 |
| 22 | 145.6 | 146.1 | 146.6 | 146.2 | 143.9 | 143.0 | 143.7 | 144.8 | 145.2 |
| 23 | 145.8 | 146.1 | 146.5 | 146.2 | 143.8 | 142.9 | 143.8 | 144.7 | 145.2 |
| 24 | 145.8 | 143.1 | 146.5 | 146.0 | 143.8 | 142.9 | 143.8 | 144.8 | 145.2 |
| 25 | 145.7 | 146.1 | 146.4 | 145.9 | 143.8 | 142.8 | 143.8 | 144.9 | 145.1 |
| 26 | 145.7 | 146.1 | 146.5 | 145.7 | 143.7 | 142.8 | 143.8 | 144.9 | 145.1 |
| 27 | 145.7 | 146.2 | 146.4 | 145.6 | 143.7 | 142.8 | 143.9 | 144.8 | 145.0 |
| 28 | 145.8 | 146.3 | 146.4 | 145.6 | 143.6 | 142.9 | 144.0 | 144.9 | 144.9 |
| 29 | 145.8 | 146.2 | 146.4 | 145.4 | 143.5 | 142.9 | 144.0 | 145.0 | 144.8 |
| 30 | 145.7 | 146.5 | 146.7 | 145.2 | 143.5 | 142.9 | 144.0 | 145.0 | 144.8 |
| 31 | | 146.4 | | 145.2 | 143.5 | | 144.0 | | 144.8 |

Water level, in feet below land-surface datum, 1947

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 141.6 | 142.2 | 142.6 | 141.6 | 137.8 | 138.2 | ..... | 137.1 | 137.7 | 138.6 | 139.2 | 136.5 |
| 2 | 141.7 | 142.2 | 142.6 | 141.4 | 137.7 | 138.1 | ..... | 137.1 | 137.7 | 138.6 | 139.3 | 136.3 |
| 3 | 141.7 | 142.2 | 142.5 | 141.3 | 137.7 | 138.1 | ..... | 137.3 | 137.7 | 138.6 | 139.4 | 136.3 |
| 4 | 141.8 | 142.0 | 142.5 | 140.9 | 137.7 | 138.1 | ..... | 137.4 | 137.7 | 138.6 | 139.3 | 136.1 |
| 5 | 141.8 | 142.1 | 142.5 | 140.8 | 137.7 | 138.1 | ..... | 137.4 | 137.7 | 138.7 | 139.3 | 136.1 |
| 6 | 141.8 | 142.1 | 142.5 | 140.7 | 137.7 | 138.1 | ..... | 137.5 | 137.7 | 138.8 | 139.3 | 136.1 |
| 7 | 141.8 | 142.1 | 142.5 | 140.5 | 137.8 | 138.1 | ..... | 137.4 | 137.7 | 138.8 | 139.3 | 136.1 |
| 8 | 141.8 | 142.2 | 142.5 | 140.3 | 137.8 | 138.1 | 136.4 | 137.4 | 137.9 | 139.0 | 139.2 | 136.0 |
| 9 | 141.9 | 142.2 | 142.5 | 140.3 | 137.8 | 138.1 | 136.5 | 137.4 | 137.9 | 139.0 | 139.1 | 136.0 |
| 10 | 142.0 | 142.3 | 142.3 | 140.3 | 137.8 | 138.1 | 136.3 | 137.4 | 138.0 | 139.0 | 139.0 | 136.0 |
| 11 | 142.0 | 142.3 | 142.3 | 140.2 | 137.8 | 138.1 | 136.3 | 137.7 | 138.1 | 139.0 | 138.9 | 136.0 |
| 12 | 142.0 | 142.3 | 142.2 | 140.2 | 137.9 | 138.1 | 136.3 | 137.7 | 138.1 | 139.0 | 138.8 | 136.0 |
| 13 | 141.9 | 142.3 | 142.2 | 140.2 | 137.9 | 138.1 | 136.3 | 137.7 | 138.1 | 139.1 | 138.8 | 135.9 |
| 14 | 141.9 | 142.3 | 142.1 | 139.9 | 137.9 | 138.1 | 136.5 | 137.7 | 138.1 | 138.9 | 138.8 | 135.8 |
| 15 | 141.9 | 142.3 | 142.0 | 139.9 | 138.0 | 138.1 | 136.5 | 137.7 | 138.2 | 138.9 | 138.7 | 135.6 |
| 16 | 141.9 | 142.4 | 142.0 | 139.6 | 138.0 | 138.0 | 136.5 | 137.4 | 138.2 | 138.9 | 138.3 | 135.8 |

66--Continued.

Water level, in feet below land-surface datum, 1947

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 17 | 141.9 | 142.4 | 142.0 | 139.4 | 138.0 | 137.9 | 136.5 | 137.3 | 138.3 | 138.9 | 138.1 | 135.8 |
| 18 | 141.9 | 142.4 | 142.0 | 139.2 | 138.1 | 138.0 | 136.5 | 137.2 | 138.3 | 138.9 | 137.8 | 135.8 |
| 19 | 141.9 | 142.4 | 141.9 | 139.2 | 138.1 | 137.9 | 136.4 | 137.1 | 138.3 | 139.0 | 137.9 | 135.8 |
| 20 | 141.9 | 142.4 | 141.9 | 139.2 | 138.2 | 137.9 | 136.4 | 137.1 | 138.3 | 139.1 | 137.8 | 135.7 |
| 21 | 141.9 | 142.5 | 141.8 | 138.4 | 138.3 | 137.9 | 136.6 | 137.3 | 138.3 | 139.2 | 137.7 | 135.6 |
| 22 | 141.9 | 142.5 | 141.7 | 138.4 | 138.3 | 137.8 | 136.6 | 137.3 | 138.6 | 139.2 | 137.5 | 135.4 |
| 23 | 142.0 | 142.5 | 141.5 | 138.4 | 138.3 | 137.3 | 136.6 | 137.3 | 138.6 | 139.2 | 137.3 | 135.5 |
| 24 | 142.0 | 142.5 | 141.5 | 138.2 | 138.3 | 137.1 | 136.8 | 137.3 | 138.6 | 139.2 | 136.9 | 135.4 |
| 25 | 142.0 | 142.5 | 141.8 | 133.1 | 138.4 | 137.1 | 136.8 | 137.3 | 138.7 | 139.2 | 136.9 | 135.4 |
| 26 | 142.0 | 142.5 | 141.8 | 138.1 | 136.5 | 137.0 | 136.8 | 137.5 | 138.6 | 139.2 | 136.9 | 135.4 |
| 27 | 142.0 | 142.6 | 141.7 | 138.0 | 138.4 | 136.9 | 137.0 | 137.5 | 138.8 | 139.3 | 136.9 | 135.4 |
| 28 | 142.1 | 142.6 | 141.7 | 137.9 | 138.3 | ..... | 137.2 | 137.4 | 138.8 | 139.5 | 136.9 | 135.5 |
| 29 | 142.2 | ..... | 141.2 | 137.9 | 138.2 | ..... | 137.2 | 137.4 | 138.8 | 139.5 | 136.8 | 135.7 |
| 30 | 142.2 | ..... | 141.1 | 137.9 | 138.2 | ..... | 137.3 | 137.4 | 138.6 | 139.2 | 136.7 | 135.4 |
| 31 | 142.2 | ..... | 141.8 | ..... | 138.2 | ..... | 137.2 | 137.5 | ..... | 139.2 | ..... | 135.4 |

Manatee County

92 (*987, p. 36; 1017, p. 154; 1024, p. 63; 1072, p. 79). Ray E. Anderson. In Waterbury, in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, T. 35 S., R. 20 E., on west side of State Highway 161.

High and low daily water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | ..... | ..... | 38.25 | 38.37 | 37.43 | 37.63 | 37.05 | 37.16 | 37.20 | 37.30 | 38.28 | 38.39 |
| 2 | ..... | ..... | 38.31 | 38.43 | 37.33 | 37.63 | 36.93 | 37.10 | 37.17 | 37.27 | 38.24 | 38.37 |
| 3 | ..... | ..... | 38.22 | 38.43 | 37.57 | 37.67 | 36.97 | 37.09 | 37.10 | 37.18 | 38.25 | 38.34 |
| 4 | ..... | ..... | 38.03 | 38.27 | 37.61 | 37.68 | 37.04 | 37.13 | 37.17 | 37.28 | 38.26 | 38.35 |
| 5 | ..... | ..... | 38.17 | 38.34 | 37.56 | 37.68 | 37.09 | 37.19 | 37.22 | 37.23 | 38.28 | 38.35 |
| 6 | ..... | ..... | 38.19 | 38.36 | 37.47 | 37.62 | 37.17 | 37.26 | 37.24 | 37.23 | 38.26 | 38.33 |
| 7 | ..... | ..... | 38.05 | 38.20 | 37.34 | 37.52 | 37.17 | 37.26 | 37.27 | 37.35 | 38.22 | 38.28 |
| 8 | ..... | ..... | 38.09 | 38.20 | 37.27 | 37.43 | 37.12 | 37.20 | 37.29 | 37.36 | 38.18 | 38.22 |
| 9 | ..... | ..... | 38.20 | 38.32 | 37.43 | 37.50 | 37.11 | 37.15 | 37.32 | 37.39 | 38.13 | 38.19 |
| 10 | ..... | ..... | 38.30 | 38.40 | 37.43 | 37.49 | 37.13 | 37.19 | 37.38 | 37.50 | 38.09 | 38.15 |
| 11 | ..... | ..... | 38.37 | 38.42 | 37.45 | 37.50 | 37.15 | 37.18 | 37.50 | 37.63 | 38.03 | 38.09 |
| 12 | ..... | ..... | 38.30 | 38.38 | 37.45 | 37.50 | 37.13 | 37.17 | 37.62 | 37.67 | 38.00 | 38.04 |
| 13 | ..... | ..... | 37.99 | 38.30 | 37.38 | 37.45 | 37.07 | 37.13 | 37.63 | 37.67 | 37.99 | 38.05 |
| 14 | ..... | ..... | 37.98 | 38.03 | 37.29 | 37.37 | 37.09 | 37.15 | 37.62 | 37.70 | 37.86 | 38.00 |
| 15 | ..... | ..... | 37.98 | 38.03 | 37.19 | 37.30 | 37.10 | 37.16 | 37.68 | 37.78 | 37.89 | 37.98 |
| 16 | ..... | ..... | 37.97 | 38.01 | 37.13 | 37.27 | 37.08 | 37.16 | 37.75 | 37.86 | 37.87 | 37.97 |
| 17 | ..... | ..... | 37.95 | 38.02 | 37.23 | 37.31 | 37.10 | 37.13 | 37.83 | 37.97 | 37.85 | 37.95 |
| 18 | ..... | ..... | 37.94 | 38.02 | 37.22 | 37.30 | 37.18 | 37.30 | 37.91 | 38.02 | 37.85 | 37.95 |
| 19 | ..... | ..... | 37.84 | 37.99 | 37.01 | 37.25 | 37.14 | 37.29 | 37.95 | 38.05 | 37.85 | 37.94 |
| 20 | ..... | ..... | 37.65 | 37.89 | 37.02 | 37.19 | 37.09 | 37.20 | 38.02 | 38.13 | 37.81 | 37.89 |
| 21 | ..... | ..... | 37.73 | 37.87 | 37.15 | 37.23 | 37.08 | 37.17 | 38.09 | 38.18 | 37.82 | 37.87 |
| 22 | 38.40 | 38.48 | 37.86 | 37.93 | 37.17 | 37.26 | 37.10 | 37.20 | 38.18 | 38.30 | 37.77 | 37.82 |
| 23 | 38.36 | 38.48 | 37.70 | 37.90 | 37.13 | 37.27 | 37.18 | 37.27 | 38.30 | 38.37 | 37.74 | 37.78 |
| 24 | 38.27 | 38.42 | 37.68 | 37.84 | 37.01 | 37.17 | 37.19 | 37.25 | 38.32 | 38.36 | 37.75 | 37.77 |
| 25 | 38.22 | 38.31 | 37.84 | 37.89 | 36.98 | 37.17 | 37.18 | 37.22 | 38.32 | 38.33 | 37.76 | 37.82 |
| 26 | 38.20 | 38.23 | 37.86 | 37.87 | 37.17 | 37.24 | 37.20 | 37.22 | 38.33 | 38.39 | 37.72 | 37.80 |
| 27 | 38.22 | 38.27 | 37.87 | 37.86 | 37.13 | 37.23 | 37.18 | 37.22 | 38.33 | 38.40 | 37.69 | 37.75 |
| 28 | 38.27 | 38.30 | 37.63 | 37.87 | 37.10 | 37.13 | 37.17 | 37.23 | 38.32 | 38.38 | 37.67 | 37.73 |
| 29 | 38.24 | 38.28 | ..... | ..... | 37.12 | 37.14 | 37.17 | 37.27 | 38.28 | 38.36 | 37.63 | 37.72 |
| 30 | 38.18 | 38.25 | ..... | ..... | 37.03 | 37.13 | 37.20 | 37.30 | 38.32 | 38.41 | 37.62 | 37.72 |
| 31 | 38.20 | 38.30 | ..... | ..... | 37.03 | 37.17 | ..... | ..... | 38.27 | 38.45 | ..... | ..... |

High and low daily water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | July | | August | | September | | October | | November | | December | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 37.57 | 37.69 | 37.30 | 37.40 | 36.85 | 36.93 | 36.75 | 36.85 | 36.85 | 37.00 | 36.98 | 37.05 |
| 2 | 37.51 | 37.62 | 37.33 | 37.42 | 36.88 | 36.94 | 36.80 | 36.86 | 36.88 | 36.93 | 37.03 | 37.08 |
| 3 | 37.46 | 37.55 | 37.39 | 37.46 | 36.90 | 36.97 | 36.79 | 36.86 | 36.93 | 37.03 | 37.03 | 37.09 |

92--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | November | | December | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 4 | 37.45 | 37.53 | 37.35 | 37.44 | 36.90 | 36.95 | 36.75 | 36.83 | 37.03 | 37.08 | 36.97 | 37.06 |
| 5 | 37.50 | 37.58 | 37.21 | 37.35 | 36.86 | 36.92 | 36.70 | 36.78 | 37.03 | 37.10 | 36.91 | 36.99 |
| 6 | 37.53 | 37.60 | 37.17 | 37.27 | 36.87 | 36.88 | 36.65 | 36.78 | 37.06 | 37.12 | 36.89 | 36.96 |
| 7 | 37.52 | 37.62 | 37.23 | 37.29 | 36.88 | 36.92 | 36.67 | 36.71 | 37.01 | 37.11 | 36.86 | 36.95 |
| 8 | 37.52 | 37.55 | 37.20 | 37.28 | 36.86 | 36.93 | 36.70 | 36.78 | 36.98 | 37.17 | 36.84 | 36.93 |
| 9 | 37.50 | 37.53 | 37.13 | 37.20 | 36.84 | 36.92 | 36.75 | 36.85 | 37.16 | 37.29 | 36.87 | 36.96 |
| 10 | 37.49 | 37.52 | 37.13 | 37.18 | 36.83 | 36.94 | 36.69 | 36.85 | 37.12 | 37.28 | 36.89 | 36.96 |
| 11 | 37.48 | 37.55 | 37.18 | 37.29 | 36.80 | 36.93 | 36.68 | 36.79 | 36.95 | 37.16 | 36.85 | 36.96 |
| 12 | 37.50 | 37.58 | 37.20 | 37.31 | 36.78 | 36.88 | 36.69 | 36.84 | 36.93 | 37.11 | 36.88 | 36.95 |
| 13 | 37.45 | 37.53 | 37.15 | 37.25 | 36.75 | 36.85 | 36.78 | 36.87 | 37.05 | 37.11 | 36.87 | 36.96 |
| 14 | 37.44 | 37.54 | 37.13 | 37.23 | 36.72 | 36.84 | 36.71 | 36.87 | 36.99 | 37.11 | 36.92 | 36.95 |
| 15 | 37.43 | 37.53 | 37.13 | 37.23 | 36.68 | 36.79 | 36.67 | 36.79 | 36.95 | 37.07 | 36.84 | 36.97 |
| 16 | 37.43 | 37.54 | 37.12 | 37.25 | 36.67 | 36.75 | 36.78 | 36.88 | 36.99 | 37.05 | 36.88 | 37.02 |
| 17 | 37.47 | 37.58 | 37.12 | 37.22 | 36.40 | 37.21 | 36.87 | 36.89 | 37.01 | 37.06 | 37.01 | 37.05 |
| 18 | 37.49 | 37.60 | 37.05 | 37.15 | 36.33 | 36.65 | 36.86 | 36.90 | 36.95 | 37.05 | 37.02 | 37.05 |
| 19 | 37.43 | 37.55 | 37.07 | 37.09 | 36.65 | 36.68 | 36.87 | 36.90 | 36.98 | 37.02 | 37.00 | 37.05 |
| 20 | 37.56 | 37.44 | 37.03 | 37.08 | 36.67 | 36.70 | 36.90 | 36.94 | 37.02 | 37.15 | 37.00 | 37.04 |
| 21 | 37.28 | 37.37 | 37.06 | 37.11 | 36.62 | 36.70 | 36.92 | 36.97 | 37.07 | 37.17 | 36.87 | 37.00 |
| 22 | 37.28 | 37.30 | 37.05 | 37.10 | 36.38 | 36.69 | 36.92 | 36.98 | 37.02 | 37.13 | 36.88 | 36.94 |
| 23 | 37.30 | 37.40 | 37.00 | 37.06 | 36.31 | 36.47 | 36.93 | 37.01 | 36.99 | 37.08 | 36.88 | 36.95 |
| 24 | 37.40 | 37.48 | 37.00 | 37.07 | 36.47 | 36.67 | 36.96 | 37.03 | 36.93 | 37.04 | 36.87 | 36.96 |
| 25 | 37.45 | 37.50 | 37.00 | 37.08 | 36.66 | 36.75 | 37.00 | 37.09 | 36.88 | 36.98 | 36.85 | 37.00 |
| 26 | 37.40 | 37.48 | 36.97 | 37.05 | 36.68 | 36.77 | 37.01 | 37.10 | 36.87 | 36.97 | 36.95 | 37.03 |
| 27 | 37.56 | 37.42 | 36.97 | 37.05 | 36.67 | 36.74 | 36.98 | 37.08 | 36.88 | 37.00 | 36.93 | 37.03 |
| 28 | 37.56 | 37.44 | 36.93 | 37.02 | 36.67 | 36.75 | 36.98 | 37.08 | 36.93 | 37.07 | 36.86 | 37.00 |
| 29 | 37.33 | 37.45 | 36.89 | 36.98 | 36.69 | 36.78 | 36.95 | 37.05 | 36.98 | 37.07 | 36.86 | 36.95 |
| 30 | 37.34 | 37.42 | 36.84 | 36.95 | 36.70 | 36.78 | 36.94 | 37.03 | 36.96 | 37.05 | 36.90 | 36.95 |
| 31 | 37.33 | 37.43 | 36.82 | 36.91 | | | 36.93 | 37.03 | | | 36.86 | 36.95 |

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; 1072, p. 80). SE $\frac{1}{4}$ 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.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|--------|-------------|
| Jan. 4 | 11.16 | Apr. 5 | 10.40 | July 5 | 10.16 | Oct. 4 | 12.52 |
| 11 | 11.08 | 12 | 10.56 | 12 | 10.28 | 11 | 12.72 |
| 18 | 10.84 | 19 | 10.58 | 19 | 10.38 | 18 | 12.47 |
| 25 | 10.78 | 26 | 10.72 | 26 | 10.30 | 27 | 12.93 |
| Feb. 1 | 10.48 | May 3 | 10.86 | Aug. 2 | 10.56 | Nov. 1 | 13.24 |
| 8 | 10.38 | 10 | 10.62 | 9 | 10.86 | 8 | 13.18 |
| 15 | 10.34 | 17 | 10.62 | 16 | 10.96 | 15 | 13.24 |
| 23 | 10.06 | 24 | 10.60 | 23 | 11.26 | 22 | 13.12 |
| Mar. 1 | 10.20 | 31 | 10.40 | 30 | 11.37 | 28 | 12.98 |
| 8 | 10.14 | June 7 | 10.36 | Sept. 6 | 11.46 | Dec. 6 | 13.04 |
| 15 | 10.00 | 14 | 10.40 | 13 | 11.68 | 13 | 12.90 |
| 22 | 10.02 | 21 | 10.20 | 20 | 11.72 | 20 | 12.68 |
| 29 | 10.34 | 28 | 10.18 | 27 | 11.98 | 27 | 12.56 |

Nassau County

2 (#907, p. 17; 937, p. 14; 945, p. 19; 987, p. 37; 1017, p. 155; 1024, p. 65; 1072, p. 81). G. C. Gerbing. In Amelia City, 5.5 miles south of Fernandina, at owner's residence, in southeast corner of pump house.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 21 | 36.9 | June 3 | 42.0 | Aug. 13 | 36.0 | Oct. 9 | 37.7 |
| Mar. 12 | 37.1 | July 15 | 43.1 | Sept. 11 | 35.9 | Nov. 21 | 38.2 |
| Apr. 9 | 36.0 | | | | | | |

8 (#907, p. 17; 937, p. 14; 945, p. 19; 987, p. 37; 1017, p. 155; 1024, p. 65; 1072, p. 81). Charles Pelot. Near SE. corner NE $\frac{1}{4}$ sec. 1, T. 1 N., R. 28 E., about 400 feet from ocean, in rear of beach cottages, 1.1 miles south of Franklinton, 8.9 miles south of Fernandina.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|---------|-------------|----------|-------------|
| Jan. 22 | 37.2 | Apr. 9 | 36.0 | July 15 | 43.1 | Sept. 11 | 42.6 |
| Mar. 12 | 37.5 | June 3 | 41.1 | Aug. 13 | 41.0 | | |

12 (*1024, p. 65; 1072, p. 81). J. W. Sheffield. 1,600 feet east of NW. corner sec. 4, T. 2 N., R. 28 E., about 400 feet east of U. S. Highway 13, on north side of dirt street.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 21 | 18.2 | June 3 | 24.0 | Aug. 13 | 16.5 | Oct. 9 | 18.3 |
| Mar. 12 | 21.0 | July 15 | 24.7 | Sept. 11 | 20.8 | Nov. 21 | 20.6 |
| Apr. 9 | 17.8 | | | | | | |

22. U. S. Government. Northeast of Fernandina and about 1,000 feet east of road to Fort Clinch. Unused drilled public-supply well, diameter 4 inches, depth 800 feet, cased to 534 feet. Measuring point, top flange of 4-inch valve, 4.0 feet above land-surface datum and 17.69 feet above mean sea level.

Water level, in feet with reference to land-surface datum, 1939-41, 1944-47

| Date | Water level | Date | Water level | Date | Water level |
|----------------|-------------|---------------|-------------|---------------|-------------|
| Mar. 28, 1939 | +30.0 | July 8, 1944 | -8.0 | Nov. 13, 1946 | +12.8 |
| Jan. 16, 1940 | +2.80 | 9 | -3.3 | 15 | +13.2 |
| 17 | +2.57 | 10 | -8 | 21 | +17.8 |
| Feb. 1 | +2.54 | 11 | +5 | 25 | +8.0 |
| 29 | +3.61 | 12 | +1.2 | Dec. 5 | +3.34 |
| Mar. 20 | +3.86 | 13 | +5.8 | 7 | +6.08 |
| May 28 | +1.03 | Sept. 6 | +4.69 | 17 | +7.71 |
| Sept. 10 | +83 | Nov. 2 | +4.23 | 23 | +7.75 |
| Nov. 23 | -1.34 | Apr. 25, 1945 | +3.15 | Jan. 21, 1947 | +6.71 |
| Sept. 26, 1941 | -1.30 | July 17 | +3.2 | 30 | +6.70 |
| June 27, 1944 | +2.14 | Aug. 2 | +3.6 | Feb. 12 | +17.5 |
| 28 | -1.2 | 8 | +3.66 | 20 | +19.8 |
| 29 | -4.6 | Jan. 19, 1946 | +5.09 | Mar. 11 | +7.34 |
| 30 | -7.6 | May 21 | +10.0 | 12 | +8.25 |
| July 1 | -7.2 | June 19 | +5.9 | Apr. 9 | +8.70 |
| 2 | -8.0 | Aug. 14 | +10.3 | June 3 | +10.20 |
| 3 | -8.9 | Sept. 5 | +7.1 | July 15 | -4.1 |
| 4 | -9.3 | Oct. 2 | +6.36 | Aug. 13 | -5.15 |
| 5 | -9.3 | Nov. 6 | +6.3 | Sept. 11 | -8.84 |
| 6 | -9.7 | 11 | +6.9 | Oct. 9 | -4.09 |
| 7 | -9.3 | 12 | +9.2 | Nov. 21 | -2.99 |

23 (#907, p. 17; 937, p. 14; 945, p. 19; 987, p. 37; 1017, p. 155; 1024, p. 65; 1072, p. 81). 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 above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 21 | 29.9 | June 3 | 33.8 | Aug. 13 | 34.3 | Oct. 9 | 27.0 |
| Mar. 12 | 29.8 | July 15 | 35.3 | Sept. 11 | 31.0 | Nov. 21 | 26.7 |
| Apr. 9 | 28.8 | | | | | | |

27 (*1024, p. 65; 1072, p. 81). Judge Fishler and others. In Fernandina, 200 feet north of Atlantic Boulevard, on east side of North 17th Street.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 3.91 | Apr. 9 | 5.35 | July 15 | 3.87 | Oct. 9 | 3.20 |
| Mar. 12 | 5.60 | June 3 | 7.25 | Sept. 11 | 6.1 | Nov. 21 | 4.61 |

34 (*907, p. 17; 937, p. 15; 945, p. 19; 987, p. 37; 1017, p. 155; 1024, p. 66; 1072, p. 82). W. L. Hardee. At Hardee Dock, about 150 feet east of Amelia River, and 0.3 mile southwest of Fernandina.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Feb. 12 | 20.50 | Mar. 12 | 3.60 | July 15 | 3.43 | Oct. 9 | 3.52 |
| 20 | 8.50 | Apr. 9 | 5.00 | Aug. 13 | 1.75 | Nov. 21 | 4.48 |
| Mar. 11 | 4.29 | June 3 | 6.60 | Sept. 11 | 11.2 | | |

44 (*907, p. 17; 937, p. 15; 945, p. 19; 987, p. 37; 1017, p. 156; 1024, p. 66; 1072, p. 82). Seaboard Air Line Railroad Co. At Seaboard Air Line Railroad station, at Yulee, south of pump house, near elevated tank.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 18.8 | June 3 | 19.8 | Aug. 13 | 15.9 | Oct. 9 | 16.8 |
| Mar. 12 | 16.9 | July 15 | 21.1 | Sept. 11 | 19.8 | Nov. 21 | 17.9 |
| Apr. 9 | 15.6 | | | | | | |

50 (*907, p. 18; 937, p. 15; 945, p. 19; 987, p. 37; 1017, p. 156; 1024, p. 66; 1072, p. 82). C. J. McKendree. SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 4, T. 2 N., R. 26 E., about 100 feet south of Seaboard Air Line Railroad, in rear of owner's residence, 0.6 mile east of Italia.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 31.8 | June 3 | 37.7 | Aug. 13 | 32.2 | Oct. 9 | 31.5 |
| Mar. 12 | 32.2 | July 15 | 37.5 | Sept. 11 | 32.4 | Nov. 21 | 34.5 |
| Apr. 9 | 32.4 | | | | | | |

51 (907, p. 18; 937, p. 15; 945, p. 19; 987, p. 37; 1017, p. 156; 1024, p. 66; 1072, p. 82). H. D. Blosser. In Callahan, near SW. corner NW $\frac{1}{4}$ sec. 29, T. 2 N., R. 25 E.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 21 | 38.9 | June 3 | 42.0 | Aug. 13 | 37.8 | Oct. 9 | 38.4 |
| Mar. 12 | 38.2 | July 15 | 42.5 | Sept. 11 | 38.0 | Nov. 21 | 40.6 |
| Apr. 9 | 37.5 | | | | | | |

52 (*907, p. 18; 937, p. 15; 945, p. 19; 987, p. 38; 1017, p. 156; 1024, p. 66; 1072, p. 82). Charlie Norris. Formerly owned by Civilian Conservation Corps. NW $\frac{1}{4}$ SW $\frac{1}{4}$ 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. Measuring point beginning Sept. 11, 1947, top of 6-inch flange, 3.38 feet above land-surface datum and 64.86 feet above mean sea level. Automatic water-stage recorder installed Sept. 11, 1947.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|---------|-------------|
| Jan. 22 | 2.17 | Apr. 9 | 2.48 | July 15 | 1.80 |
| Mar. 12 | 2.40 | June 3 | 1.53 | Aug. 13 | 2.00 |

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | September | | October | | November | |
|-----|-----------|------|---------|------|----------|------|
| | High | Low | High | Low | High | Low |
| 1 | | | 1.81 | 1.81 | 0.39 | 0.47 |
| 2 | | | 1.81 | 1.81 | .30 | .39 |
| 3 | | | 1.81 | 1.81 | .24 | .30 |
| 4 | | | 1.79 | 1.81 | ... | ... |
| 5 | | | 1.73 | 1.79 | ... | ... |
| 6 | | | 1.63 | 1.73 | ... | ... |
| 7 | | | 1.51 | 1.63 | ... | ... |
| 8 | | | 1.40 | 1.51 | ... | ... |
| 9 | | | 1.42 | 1.40 | ... | ... |
| 10 | | | 1.35 | 1.42 | ... | ... |
| 11 | | | 1.32 | 1.35 | ... | ... |
| 12 | 2.36 | 2.56 | 1.29 | 1.32 | ... | ... |

52--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | September | | October | | November | |
|-----|-----------|------|---------|------|----------|------|
| | High | Low | High | Low | High | Low |
| 13 | 2.21 | 2.36 | 1.26 | 1.29 | .... | .... |
| 14 | 2.13 | 2.21 | 1.19 | 1.26 | .... | .... |
| 15 | 2.09 | 2.13 | 1.06 | 1.19 | .... | .... |
| 16 | 2.07 | 2.09 | 1.00 | 1.06 | .... | .... |
| 17 | 2.06 | 2.07 | .99 | 1.00 | .... | .... |
| 18 | 2.04 | 2.06 | .99 | .99 | .... | .... |
| 19 | 2.03 | 2.04 | .97 | .99 | .... | .... |
| 20 | 2.01 | 2.03 | .97 | .97 | .... | .... |
| 21 | 1.99 | 2.01 | .97 | .97 | .... | .... |
| 22 | 1.95 | 1.99 | .95 | .97 | .... | .... |
| 23 | 1.81 | 1.95 | .93 | .95 | .... | .... |
| 24 | 1.68 | 1.81 | .90 | .93 | .... | .... |
| 25 | 1.68 | 1.69 | .87 | .90 | .... | .... |
| 26 | 1.69 | 1.73 | .81 | .87 | .... | .... |
| 27 | 1.73 | 1.78 | .73 | .81 | .... | .... |
| 28 | 1.78 | 1.81 | .66 | .73 | .... | .... |
| 29 | 1.81 | 1.81 | .59 | .66 | .... | .... |
| 30 | 1.81 | 1.81 | .52 | .59 | .... | .... |
| 31 | | | .47 | .52 | | |

55 (*1017, p. 156; 1024, p. 66; 1072, p. 82). 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 Railroad and State Highway 13, at owner's residence.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 29.3 | June 3 | 33.1 | Aug. 13 | 28.0 | Oct. 9 | 29.3 |
| Mar. 12 | 30.0 | July 15 | 33.8 | Sept. 11 | 30.7 | Nov. 21 | 30.2 |
| Apr. 9 | 29.0 | | | | | | |

64 (*1024, p. 66; 1072, p. 82). Mrs. D. C. Henderson. In Hilliard, in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 8, T. 3 N., R. 24 E., on south side of dirt street, about 500 feet west of brick schoolhouse. Water levels, in feet below land-surface datum, 1947: Sept. 11, 20.55; Oct. 9, 20.24; Nov. 21, 18.50.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 20.03 | 20.12 | 20.29 | 20.42 | 20.09 | 20.33 | 20.05 | 20.21 | 19.82 | 19.88 |
| 2 | 19.97 | 20.12 | 20.39 | 20.55 | 20.07 | 20.34 | 19.83 | 20.05 | 19.70 | 19.88 |
| 3 | 19.92 | 20.03 | 20.31 | 20.54 | 20.32 | 20.38 | 19.88 | 20.03 | 19.70 | 19.85 |
| 4 | 19.99 | 20.10 | 19.96 | 20.31 | 20.38 | 20.49 | 19.98 | 20.09 | 19.83 | 19.93 |
| 5 | 19.92 | 20.10 | 20.25 | 20.36 | 20.35 | 20.49 | 19.98 | 20.07 | 19.78 | 19.90 |
| 6 | 20.01 | 20.13 | 20.18 | 20.36 | 20.29 | 20.41 | 20.03 | 20.12 | 19.83 | 19.93 |
| 7 | 19.99 | 20.13 | 20.04 | 20.19 | 20.14 | 20.37 | 20.04 | 20.12 | 19.84 | 19.90 |
| 8 | 20.00 | 20.06 | 20.12 | 20.34 | 20.03 | 20.37 | 19.95 | 20.05 | 19.88 | 19.98 |
| 9 | 20.06 | 20.12 | 20.34 | 20.43 | 20.38 | 20.46 | 19.92 | 19.97 | 19.97 | 20.03 |
| 10 | 20.14 | 20.22 | 20.44 | 20.57 | 20.41 | 20.47 | 19.97 | 20.05 | 20.01 | 20.15 |
| 11 | 19.97 | 20.14 | 20.56 | 20.60 | 20.43 | 20.51 | 19.92 | 20.02 | 20.15 | 20.23 |
| 12 | 19.95 | 20.05 | 20.54 | 20.59 | 20.47 | 20.56 | 19.92 | 20.00 | 20.16 | 20.23 |
| 13 | 20.03 | 20.10 | 20.42 | 20.54 | 20.25 | 20.47 | 19.88 | 19.97 | 20.08 | 20.16 |
| 14 | 20.06 | 20.21 | 20.33 | 20.42 | 20.17 | 20.30 | 19.82 | 19.89 | 20.07 | 20.13 |
| 15 | 20.11 | 20.21 | 20.16 | 20.33 | 20.20 | 20.30 | 19.81 | 19.88 | 20.07 | 20.14 |
| 16 | 20.14 | 20.23 | 20.21 | 20.30 | 20.15 | 20.28 | 19.73 | 19.86 | 20.10 | 20.19 |
| 17 | 20.19 | 20.29 | 20.26 | 20.38 | 20.19 | 20.30 | 19.78 | 19.95 | 20.15 | 20.26 |
| 18 | 20.20 | 20.29 | 20.30 | 20.39 | 20.25 | 20.38 | 19.93 | 20.05 | 20.12 | 20.25 |
| 19 | 20.07 | 20.26 | 20.24 | 20.36 | 20.03 | 20.35 | 19.89 | 20.03 | 20.10 | 20.25 |
| 20 | 20.01 | 20.12 | 20.01 | 20.29 | 20.12 | 20.25 | 19.76 | 19.95 | 20.12 | 20.23 |
| 21 | 20.12 | 20.40 | 20.25 | 20.39 | 20.14 | 20.25 | 19.76 | 19.85 | 20.12 | 20.20 |
| 22 | 20.40 | 20.50 | 20.35 | 20.45 | 20.21 | 20.34 | 19.82 | 19.99 | 20.17 | 20.28 |
| 23 | 20.38 | 20.51 | 20.22 | 20.40 | 20.18 | 20.34 | 19.96 | 20.05 | 20.30 | 20.35 |

64--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 24 | 20.28 | 20.43 | 20.27 | 20.41 | 19.88 | 20.18 | 19.90 | 19.99 | 20.27 | 20.34 |
| 25 | 20.20 | 20.31 | 20.41 | 20.45 | 19.91 | 20.15 | 19.87 | 19.91 | 20.25 | 20.28 |
| 26 | 20.17 | 20.23 | 20.44 | 20.51 | 20.15 | 20.28 | 19.87 | 19.93 | 20.25 | 20.32 |
| 27 | 20.20 | 20.29 | 20.48 | 20.52 | 20.07 | 20.29 | 19.88 | 19.93 | 20.25 | 20.30 |
| 28 | 20.29 | 20.35 | 20.33 | 20.49 | 20.02 | 20.23 | 19.88 | 19.98 | 20.22 | 20.30 |
| 29 | 20.27 | 20.32 | | | 20.15 | 20.23 | 19.92 | 19.98 | 20.13 | 20.23 |
| 30 | 20.17 | 20.28 | | | 20.00 | 20.16 | 19.85 | 19.97 | 20.13 | 20.28 |
| 31 | 20.11 | 20.38 | | | 20.01 | 20.21 | | | 20.25 | 20.35 |

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | June | | July | | August | | September | |
|-----|-------|-------|-------|-------|--------|-------|-----------|-------|
| | High | Low | High | Low | High | Low | High | Low |
| 1 | 20.25 | 20.36 | 20.35 | 20.50 | 20.68 | 20.78 | 20.85 | 20.92 |
| 2 | 20.17 | 20.29 | 20.32 | 20.42 | 20.73 | 20.83 | 20.87 | 20.94 |
| 3 | 20.11 | 20.24 | 20.38 | 20.47 | 20.80 | 20.88 | 20.90 | 20.96 |
| 4 | 20.13 | 20.28 | 20.43 | 20.55 | 23.73 | 20.85 | 20.92 | 20.98 |
| 5 | 20.25 | 20.34 | 20.51 | 20.58 | 20.70 | 20.78 | 20.88 | 20.97 |
| 6 | 20.26 | 20.31 | 20.53 | 20.59 | 20.74 | 20.80 | 20.92 | 20.96 |
| 7 | 20.21 | 20.28 | 20.51 | 20.57 | 20.79 | 20.84 | 20.95 | 21.03 |
| 8 | 20.18 | 20.23 | 20.48 | 20.54 | 20.78 | 20.84 | 20.95 | 21.03 |
| 9 | 20.18 | 20.21 | 20.48 | 20.54 | 20.75 | 20.82 | 20.95 | 21.03 |
| 10 | 20.20 | 20.25 | 20.54 | 20.57 | 20.80 | 20.88 | 20.95 | 21.07 |
| 11 | 20.15 | 20.27 | 20.55 | 20.59 | 20.88 | 21.01 | ..... | ..... |
| 12 | 20.14 | 20.22 | 20.58 | 20.63 | 20.93 | 21.08 | ..... | ..... |
| 13 | 20.17 | 20.26 | 20.57 | 20.65 | 20.84 | 21.01 | ..... | ..... |
| 14 | 20.16 | 20.31 | 20.53 | 20.64 | 20.86 | 21.01 | ..... | ..... |
| 15 | 20.18 | 20.28 | 20.49 | 20.62 | 20.88 | 21.00 | ..... | ..... |
| 16 | 20.23 | 20.33 | 20.48 | 20.57 | 20.95 | 21.03 | ..... | ..... |
| 17 | 20.26 | 20.35 | 20.51 | 20.64 | 20.97 | 21.06 | ..... | ..... |
| 18 | 20.32 | 20.42 | 20.53 | 20.63 | 20.93 | 21.02 | ..... | ..... |
| 19 | 20.37 | 20.46 | 20.52 | 20.57 | 20.90 | 20.97 | ..... | ..... |
| 20 | 20.40 | 20.46 | 20.49 | 20.52 | 20.91 | 20.95 | ..... | ..... |
| 21 | 20.38 | 20.48 | 20.47 | 20.49 | 20.95 | 20.98 | ..... | ..... |
| 22 | 20.38 | 20.47 | 20.47 | 20.51 | 20.91 | 20.98 | ..... | ..... |
| 23 | 20.40 | 20.45 | 20.51 | 20.68 | 20.87 | 20.94 | ..... | ..... |
| 24 | 20.43 | 20.47 | 20.68 | 20.77 | 20.87 | 20.94 | ..... | ..... |
| 25 | 20.45 | 20.50 | 20.77 | 20.82 | 20.87 | 20.95 | ..... | ..... |
| 26 | 20.36 | 20.46 | 20.75 | 20.82 | 20.84 | 20.93 | ..... | ..... |
| 27 | 20.36 | 20.43 | 20.72 | 20.79 | 20.83 | 20.92 | ..... | ..... |
| 28 | 20.38 | 20.47 | 20.68 | 20.79 | 20.81 | 20.90 | ..... | ..... |
| 29 | 20.40 | 20.49 | 20.65 | 20.76 | 20.82 | 20.92 | ..... | ..... |
| 30 | 20.41 | 20.50 | 20.69 | 20.79 | 20.82 | 20.90 | ..... | ..... |
| 31 | | | 20.69 | 20.81 | 20.83 | 20.89 | ... | ..... |

Okealoosa County

3 (*1072, p. 84). Okealoosa County. In Fort Walton, in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 2 S., R. 24 W., behind new schoolhouse, 20 feet east of pump house. Water levels, in feet above land-surface datum, 1947: Apr. 18, 18.5; July 30, 14.8; Sept. 3, 15.4; Oct. 28, 13.3.

10 (*1072, p. 84). Forest Service, U. S. Dept. of Agriculture. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 6, T. 1 S., R. 22 W., 0.75 mile west of Niceville, on east side of State Highway 285, in pump house. Water levels, in feet below land-surface datum, 1947: Apr. 17, 11.10; July 31, 14.42; Sept. 2, 14.20; Oct. 30, 14.46.

18. U. S. Army. At Eglin main field, under water tank, on corner of Avenue D and Third Street. Unused drilled test well, diameter 6 inches, depth 595 feet, cased to 240 feet. Measuring point, top of 6-inch coupling, 2.50 feet above land-surface datum.

18--Continued.

Water level, in feet below land-surface datum, 1946-47

| Date | Water level | Date | Water level | Date | Water level |
|---------------|-------------|---------------|-------------|---------------|-------------|
| Nov. 20, 1946 | 14.94 | July 31, 1947 | 16.50 | Oct. 28, 1947 | 15.32 |
| Apr. 17, 1947 | 10.93 | Sept. 2 | 17.74 | | |

19. U. S. Army. At Eglin main field, in Building 110, at fire station, near hangar. Used drilled public-supply well, diameter 12 inches, depth 607 feet, cased to 362.4 feet. Measuring point, top of $\frac{1}{4}$ -inch tee on airline, 1.50 feet above land-surface datum, and 53.1 feet above mean sea level. Water levels, in feet below land-surface datum, 1947: Sept. 3, 23.5; Oct. 28, 21.5.

23. U. S. Army. At Eglin auxiliary field 2, 8 miles north of Valparaiso, in pump house. Used drilled public-supply well, diameter 10 inches, depth 652 feet, cased to 408.7 feet. Measuring point, top of $\frac{1}{4}$ -inch tee on airline, 0.72 foot above land-surface datum, and 154.72 feet above mean sea level. Water level, in feet below land-surface datum, 1947: Oct. 29, 93.28.

25. U. S. Army. At Eglin auxiliary field 3, in Building 3204, in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 27, T. 2 N., R. 23 W. Used drilled public-supply well, diameter 10 inches, depth 609 feet, cased to 455.6 feet. Measuring point, top of $\frac{1}{4}$ -inch tee, 1.60 feet above land-surface datum. Water level, in feet below land-surface datum, 1947: Oct. 30, 98.5.

26. U. S. Army. At Eglin auxiliary field 4, in Building 4102, NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 1 S., R. 23 W. Used drilled public-supply well, diameter 10 inches, depth 640 feet, cased to 378 feet. Measuring point, top of $\frac{1}{4}$ -inch tee, 0.80 foot above land-surface datum, and 87.80 feet above mean sea level. Water level, in feet below land-surface datum, 1947: Oct. 28, 28.0.

29. U. S. Army. At Eglin auxiliary field 5, in Building 5204, NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 15, T. 1 N., R. 24 W. Used drilled public-supply well, diameter 10 inches, depth 766 feet, cased to 524 feet. Measuring point, top of $\frac{1}{4}$ -inch tee, 1.40 feet above land-surface datum. Water level, in feet below land-surface datum, 1947: Oct. 28, 99.8.

32. U. S. Army. At Eglin auxiliary field 9, in Building 9052, 21 miles south of Milton, in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 13, T. 2 S., R. 25 W. Used drilled public-supply well, diameter 10 inches, depth 208 feet, cased to 168 feet. Measuring point, center of recording gage, 4.66 feet above land-surface datum. Water level, in feet above land-surface datum, 1947: Oct. 29, 32.5.

34. U. S. Army. At Eglin main field, at Postle Point, near recreation center on Weekly Bayou, in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 19, T. 2 S., R. 22 W. Unused drilled public-supply well, diameter 6 inches. Measuring point, top of 6-inch tee, 1.40 feet above land-surface datum. Water levels, in feet above land-surface datum, 1947: Sept. 3, 30.2; Oct. 28, 29.1.

Orange County

47 (*773-C, pp. 171, 184; 987, p. 38; 1017, p. 157; 1024, p. 68; 1072, p. 84). Orange County. Near SE. corner NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, 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, in feet with reference to land-surface datum, 1947

(From recorder charts)

| Day | January | | April | | May | | June | |
|-----|---------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low |
| 1 | -3.80 | -3.85 | -3.64 | -3.68 | -3.03 | -3.11 | -3.91 | -4.00 |
| 2 | -3.81 | -3.85 | -3.58 | -3.68 | -2.98 | -3.05 | -3.98 | -4.06 |
| 3 | -3.82 | -3.87 | -3.60 | -3.69 | -3.01 | -3.11 | -3.09 | -4.10 |
| 4 | -3.83 | -3.91 | -3.69 | -3.82 | -3.11 | -3.20 | -2.74 | -3.11 |
| 5 | -3.87 | -3.92 | -3.80 | -3.90 | -3.19 | -3.28 | -3.11 | -3.55 |

47--Continued.

High and low daily water level, in feet with reference to
land-surface datum, 1947
(From recorder charts)

| Day | January | | April | | May | | June | |
|-----|---------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low |
| 6 | -3.88 | -3.97 | -3.89 | -3.96 | -3.25 | -3.35 | -3.55 | -3.72 |
| 7 | -3.93 | -3.97 | -3.95 | -4.00 | -3.32 | -3.38 | -3.72 | -3.83 |
| 8 | -3.95 | -3.99 | -3.98 | -4.03 | -3.38 | -3.44 | -3.83 | -3.91 |
| 9 | -3.99 | -4.06 | -4.03 | -4.10 | -3.44 | -3.51 | -3.91 | -4.00 |
| 10 | -4.04 | -4.07 | -4.10 | -4.17 | -3.51 | -3.60 | -4.00 | -4.07 |
| 11 | -4.05 | -4.07 | -4.16 | -4.23 | -3.60 | -3.66 | -3.85 | -4.00 |
| 12 | -4.06 | -4.10 | -3.45 | -4.20 | -3.65 | -3.68 | -3.73 | -3.85 |
| 13 | -4.10 | -4.15 | -2.62 | -3.45 | -3.67 | -3.70 | -3.72 | -3.79 |
| 14 | -4.15 | -4.20 | -1.01 | -2.63 | -3.68 | -3.75 | + .65 | -3.78 |
| 15 | -4.19 | -4.24 | - .64 | -1.07 | -3.74 | -3.97 | +1.21 | + .65 |
| 16 | -4.23 | -4.30 | -1.07 | -1.83 | -3.97 | -4.13 | +1.33 | +1.21 |
| 17 | -4.27 | -4.34 | -1.83 | -2.02 | -4.10 | -4.21 | +1.43 | +1.33 |
| 18 | -4.31 | -4.35 | -1.74 | -1.92 | -4.15 | -4.19 | +2.06 | +1.43 |
| 19 | -4.28 | -4.35 | -1.69 | -1.77 | -4.17 | -4.27 | +2.56 | +2.06 |
| 20 | -4.30 | -4.38 | -1.63 | -2.02 | -4.20 | -4.33 | +2.62 | +2.54 |
| 21 | -4.36 | -4.48 | -2.06 | -2.60 | -4.25 | -4.39 | +2.54 | +2.41 |
| 22 | -4.47 | -4.52 | -2.02 | -2.36 | -4.34 | -4.50 | +2.41 | +2.31 |
| 23 | -4.47 | -4.52 | -2.21 | -2.43 | -4.35 | -4.51 | +2.31 | +2.18 |
| 24 | -4.45 | -4.50 | -2.43 | -2.65 | -4.35 | -4.40 | +2.18 | +1.93 |
| 25 | -4.45 | -4.49 | -2.54 | -2.66 | -4.32 | -4.35 | +1.93 | + .98 |
| 26 | -4.42 | -4.44 | -2.66 | -2.72 | -4.28 | -4.42 | + .98 | + .04 |
| 27 | -4.41 | -4.52 | -2.72 | -2.82 | -4.24 | -4.28 | + .04 | -.12 |
| 28 | ..... | ..... | -2.82 | -2.95 | -4.20 | -4.29 | + .09 | + .01 |
| 29 | ..... | ..... | -2.94 | -3.04 | -4.15 | -4.24 | + .03 | -.18 |
| 30 | ..... | ..... | -3.00 | -3.10 | -4.12 | -4.22 | -.10 | -.19 |
| 31 | ..... | ..... |  |  | -3.94 | -4.19 | | |

High and low daily water level, in feet above land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | November | | December | |
|-----|------|-------|--------|------|-----------|------|---------|------|----------|------|----------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 0.21 | -0.26 | 2.88 | 2.20 | 0.80 | 0.71 | 3.60 | 3.14 | 1.97 | 1.91 | 0.92 | 0.86 |
| 2 | 2.19 | .22 | 2.20 | 1.49 | .75 | .65 | 3.14 | 2.97 | 1.91 | 1.82 | .86 | .80 |
| 3 | 2.81 | 2.09 | 1.48 | 1.15 | .80 | .53 | 2.97 | 2.88 | 1.82 | 1.70 | .80 | .78 |
| 4 | 2.99 | 2.82 | 1.15 | 1.00 | 1.62 | .80 | 3.17 | 2.84 | 1.70 | 1.63 | .78 | .76 |
| 5 | 2.98 | 2.86 | 1.00 | .85 | 1.68 | 1.48 | 3.47 | 3.17 | 1.63 | 1.57 | .77 | .73 |
| 6 | 2.86 | 2.64 | .85 | .66 | 1.48 | 1.18 | 3.46 | 3.35 | 1.57 | 1.48 | .75 | .70 |
| 7 | 2.64 | 2.17 | .66 | .57 | 1.18 | 1.07 | 3.35 | 3.14 | 1.50 | 1.45 | .70 | .66 |
| 8 | 2.17 | 1.42 | .86 | .65 | 1.23 | 1.12 | 3.14 | 2.93 | 1.49 | 1.33 | .68 | .62 |
| 9 | 1.42 | 1.05 | .98 | .86 | 1.27 | 1.23 | 2.93 | 2.77 | 1.33 | 1.22 | .63 | .56 |
| 10 | 1.10 | 1.02 | 1.02 | .95 | 1.23 | 1.10 | 2.77 | 2.19 | 1.25 | 1.20 | .59 | .54 |
| 11 | 1.25 | 1.10 | .95 | .77 | 2.70 | 1.00 | 2.75 | 2.69 | 1.30 | 1.22 | .57 | .51 |
| 12 | 2.45 | 1.08 | .77 | .68 | 3.47 | 2.70 | 2.72 | 2.63 | 1.26 | 1.13 | .53 | .47 |
| 13 | 2.90 | 2.45 | .92 | .65 | 3.48 | 3.30 | 2.64 | 2.59 | 1.14 | 1.08 | .51 | .47 |
| 14 | 2.92 | 2.88 | 1.32 | .92 | 3.30 | 2.94 | 2.75 | 2.59 | 1.10 | 1.06 | .48 | .46 |
| 15 | 2.90 | 2.76 | 1.35 | 1.22 | 2.94 | 1.97 | 2.67 | 2.41 | 1.10 | 1.05 | .52 | .46 |
| 16 | 2.76 | 2.38 | 1.22 | 1.08 | 1.97 | 1.47 | 2.41 | 2.22 | 1.05 | .97 | .47 | .43 |
| 17 | 2.38 | 1.59 | 1.10 | .98 | 1.85 | 1.47 | 2.22 | 2.11 | 1.40 | .96 | .43 | .37 |
| 18 | 1.59 | 1.11 | .98 | .91 | 4.20 | 1.85 | 2.12 | 2.02 | 1.58 | 1.40 | .38 | .35 |
| 19 | 1.11 | .90 | 1.47 | .95 | 4.53 | 4.20 | 2.02 | 1.93 | 1.65 | 1.58 | .35 | .32 |
| 20 | .90 | .87 | 2.62 | 1.47 | 4.58 | 4.53 | 1.93 | 1.83 | 1.61 | 1.47 | .36 | .30 |
| 21 | 1.00 | .85 | 2.88 | 2.62 | 4.55 | 4.48 | 1.83 | 1.74 | 1.47 | 1.38 | .43 | .36 |
| 22 | 1.08 | .92 | 2.89 | 2.82 | 4.48 | 4.40 | 1.79 | 1.73 | 1.58 | 1.34 | .42 | .36 |
| 23 | .92 | .72 | 2.82 | 2.57 | 4.91 | 4.42 | 1.87 | 1.79 | 1.35 | 1.30 | .37 | .32 |
| 24 | .72 | .51 | 2.37 | 1.85 | 4.90 | 4.82 | 1.92 | 1.85 | 1.30 | 1.26 | .33 | .28 |
| 25 | .53 | .45 | 1.85 | 1.58 | 4.84 | 4.79 | 2.10 | 1.92 | 1.30 | 1.19 | .32 | .20 |
| 26 | 1.15 | .53 | 1.58 | 1.35 | 4.80 | 4.69 | 2.13 | 2.09 | 1.22 | 1.12 | .22 | .15 |
| 27 | 1.68 | 1.15 | 1.35 | 1.18 | 4.69 | 4.46 | 2.16 | 2.09 | 1.15 | 1.05 | .17 | .12 |
| 28 | 1.72 | 1.60 | 1.18 | 1.06 | 4.57 | 4.44 | 2.15 | 2.08 | 1.07 | 1.00 | .15 | .10 |
| 29 | 1.70 | 1.30 | 1.06 | .95 | 4.44 | 4.17 | 2.11 | 2.04 | 1.02 | .97 | .11 | .05 |
| 30 | 3.03 | 1.70 | .95 | .87 | 4.17 | 3.60 | 2.07 | 2.01 | .99 | .92 | .07 | .03 |
| 31 | 3.05 | 2.88 | .88 | .80 | | | 2.03 | 1.95 | | | .03 | .02 |

Palm Beach County

88 (*1017, p. 166; 1024, p. 73; 1072, p. 85). Geological Survey, U. S. Dept. of Interior. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T. 44 S., R. 43 E.

High and low weekly water level, in feet below land-surface datum, 1947
(From recorder charts)

| Week ending | High level | Low level | Week ending | High level | Low level |
|-------------|------------|-----------|-------------|------------|-----------|
| Feb. 4 | 7.68 | 7.88 | July 8 | 2.91 | 3.32 |
| 11 | 7.88 | 8.11 | 15 | 1.86 | 3.32 |
| 18 | 7.17 | 8.14 | 22 | 1.57 | 2.02 |
| 25 | 7.30 | 7.58 | 29 | 1.98 | 2.46 |
| Mar. 4 | 6.56 | 7.73 | Aug. 5 | 2.46 | 2.82 |
| 11 | 6.82 | 7.04 | 12 | 2.82 | 3.11 |
| 18 | 6.48 | 7.16 | 19 | 3.11 | 3.39 |
| 25 | 6.38 | 6.58 | 26 | 3.39 | 3.80 |
| Apr. 1 | 6.58 | 6.87 | Sept. 2 | 3.80 | 4.05 |
| 8 | 6.58 | 7.10 | 9 | 4.05 | 4.34 |
| 15 | 7.07 | 7.24 | 30 | 1.68 | 2.42 |
| 22 | 6.38 | 7.22 | Oct. 7 | 1.30 | 2.33 |
| 29 | 6.51 | 6.77 | 14 | .14 | .... |
| May 6 | 6.77 | 7.15 | Nov. 4 | 1.24 | 1.78 |
| 13 | 6.92 | 7.23 | 11 | 1.78 | 2.17 |
| 20 | 7.17 | 7.42 | 18 | 2.17 | 2.44 |
| 27 | 7.42 | 7.69 | 25 | 2.29 | 2.51 |
| June 3 | 6.22 | 7.69 | Dec. 2 | 1.64 | 2.57 |
| 10 | 5.17 | 6.24 | 9 | 2.09 | 2.55 |
| 17 | 3.65 | 5.17 | 16 | 2.55 | 2.87 |
| 24 | 3.24 | 3.65 | 23 | 2.42 | 2.90 |
| July 1 | 2.53 | 3.24 | 30 | 2.53 | 2.99 |

G300 (*987, p. 39; 1017, p. 166; 1024, p. 74; 1072, p. 86). Geological Survey, U. S. Dept. of Interior. Sec. 32, T. 43 S., R. 41 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|----------|-------------|
| Jan. 4 | 3.82 | Apr. 5 | 2.34 | July 5 | 1.20 | Oct. 4 a | 0.50 |
| 11 | 4.15 | 12 | 3.95 | 12 a | .38 | 11 a | .08 |
| 18 | 3.94 | 19 | 3.08 | 19 a | .70 | 18 a | 1.26 |
| 25 | 3.34 | 26 | 2.18 | 26 a | .12 | 25 | .08 |
| Feb. 1 | 4.28 | May 3 | 4.14 | Aug. 2 | .46 | Nov. 1 a | .06 |
| 8 | 3.98 | 10 | 2.32 | 9 | .60 | 8 | .45 |
| 15 | 3.86 | 17 | 4.66 | 16 | .40 | 15 | .68 |
| 22 | 3.44 | 24 | 3.92 | 23 | 1.25 | 22 | 1.14 |
| Mar. 1 | 3.06 | 31 | 3.68 | 30 | 1.32 | 29 | .18 |
| 8 | 1.50 | June 7 | 2.38 | Sept. 6 | .78 | Dec. 6 | .42 |
| 15 | 1.16 | 14 | 1.30 | 13 | .56 | 13 | 1.34 |
| 22 | 1.47 | 21 | .17 | 20 a | .68 | 20 | 1.78 |
| 29 | 2.54 | 28 a | .30 | 27 a | .75 | 27 | 2.44 |

a Above land-surface datum.

Pinellas County

5. City of Clearwater. Clearwater, 200 feet north of Cleveland Street, between Lady Mary Drive and Evergreen Avenue, 10 feet east of Stevenson Creek, in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 15, T. 29 S., R. 15 E. Unused drilled public-supply well, diameter 10 inches, depth 192 feet. Measuring point, top of 10-inch casing, 0.5 foot above land-surface datum and 15.53 feet above mean sea level. Automatic water-stage recorder installed Aug. 21, 1947. Water level, in feet below land-surface datum, 1930; Sept. 12, 5.3.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | August | | September | | October | | November | | December | |
|-----|--------|------|-----------|------|---------|------|----------|------|----------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | | | 5.35 | 7.38 | 6.06 | 8.06 | 5.77 | 7.96 | 6.02 | 8.76 |
| 2 | | | 5.37 | 7.38 | 6.03 | 8.18 | 5.42 | 6.31 | 5.91 | 8.77 |
| 3 | | | 5.51 | 7.96 | 6.01 | 8.48 | 5.26 | 6.08 | 6.12 | 8.96 |

5--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | August | | September | | October | | November | | December | |
|-----|--------|------|-----------|------|---------|------|----------|------|----------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 4 | .... | .... | 5.63 | 8.36 | 5.97 | 8.21 | 5.41 | 7.24 | 6.87 | 8.59 |
| 5 | .... | .... | 5.52 | 7.75 | 5.70 | 7.67 | 5.26 | 7.63 | 6.54 | 8.73 |
| 6 | .... | .... | 5.57 | 7.82 | 5.79 | 8.13 | 5.88 | 7.90 | 6.58 | 8.60 |
| 7 | .... | .... | 5.37 | 7.21 | 6.17 | 7.77 | 5.75 | 7.86 | 6.57 | 8.25 |
| 8 | .... | .... | 5.30 | 7.25 | 5.57 | 8.43 | 4.78 | 6.64 | 6.39 | 8.48 |
| 9 | .... | .... | 5.36 | 7.91 | 5.50 | 8.27 | 6.15 | 7.23 | 6.42 | 8.80 |
| 10 | .... | .... | 5.48 | 7.32 | 5.96 | 8.23 | 6.26 | 7.93 | 6.29 | 8.70 |
| 11 | .... | .... | 5.90 | 7.63 | 5.50 | 7.54 | 5.90 | 7.40 | 6.11 | 8.90 |
| 12 | .... | .... | 5.49 | 7.59 | 5.52 | 7.00 | 5.55 | 6.34 | 6.56 | 8.47 |
| 13 | .... | .... | 5.80 | 7.44 | 6.06 | 8.49 | 5.70 | 7.15 | 6.00 | 7.20 |
| 14 | .... | .... | 5.57 | 7.20 | 5.83 | 8.80 | 5.87 | 6.97 | 5.79 | 7.18 |
| 15 | .... | .... | 5.43 | 7.89 | 5.46 | 7.80 | 5.79 | 7.51 | 5.79 | 6.81 |
| 16 | .... | .... | 5.35 | 7.47 | 5.32 | 6.55 | 5.14 | 7.08 | 5.70 | 5.98 |
| 17 | .... | .... | 5.43 | 7.50 | 5.40 | 6.31 | 4.98 | 7.76 | 6.15 | 7.20 |
| 18 | .... | .... | 5.81 | 7.47 | 5.03 | 7.08 | 5.82 | 8.07 | 6.07 | 7.69 |
| 19 | .... | .... | 5.25 | 5.99 | 5.41 | 6.54 | 5.83 | 7.86 | 6.15 | 7.87 |
| 20 | .... | .... | 4.98 | 6.48 | 5.24 | 7.83 | 5.96 | 8.20 | 6.29 | 8.41 |
| 21 | .... | .... | 5.21 | 8.31 | 5.73 | 7.07 | 6.44 | 7.98 | 5.94 | 6.97 |
| 22 | 5.08 | 6.20 | 5.21 | 6.72 | 6.17 | 7.92 | 6.30 | 8.23 | 5.97 | 7.94 |
| 23 | 5.33 | 6.22 | 4.60 | 5.91 | 5.42 | 6.61 | 5.97 | 7.60 | 6.20 | 8.15 |
| 24 | 5.64 | 7.28 | 4.31 | 5.22 | 5.38 | 6.37 | 6.12 | 7.83 | 5.94 | 8.32 |
| 25 | 5.43 | 8.05 | 4.53 | 6.65 | 5.51 | 6.18 | 5.53 | 7.05 | 6.27 | 7.45 |
| 26 | 6.33 | 7.98 | 5.40 | 7.20 | 5.59 | 6.66 | 5.20 | 7.14 | 6.20 | 8.57 |
| 27 | 6.57 | 8.18 | 5.54 | 7.29 | 5.43 | 7.09 | 5.69 | 6.85 | 6.38 | 8.63 |
| 28 | 5.60 | 7.60 | 5.82 | 7.31 | 5.39 | 7.10 | 5.85 | 7.22 | 5.72 | 7.40 |
| 29 | 5.17 | 7.32 | 5.98 | 8.01 | 5.57 | 7.92 | 5.89 | 8.30 | 5.98 | 8.53 |
| 30 | 5.81 | 7.40 | 6.11 | 8.03 | 5.98 | 7.75 | 5.97 | 7.73 | .... | .... |
| 31 | 5.51 | 7.04 | .... | .... | 6.05 | 8.32 | .... | .... | .... | .... |

9 (#1072, p. 86). City of Clearwater. NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 29 S., R. 15 E., in shed at south side of Drew Street, between Myrtle Avenue and Seaboard Air Line Railroad.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 25.78 | 25.96 | 26.14 | 26.38 | 25.53 | 25.99 | 25.75 | 26.42 | 26.30 | 26.65 | 25.92 | 26.39 |
| 2 | 25.68 | 26.00 | 26.11 | 26.63 | 25.63 | 25.95 | 25.65 | 26.12 | 26.17 | 26.56 | 25.98 | 26.68 |
| 3 | 25.64 | 25.98 | 25.75 | 26.54 | 25.94 | 26.46 | 25.66 | 26.02 | 26.03 | 26.63 | 26.05 | 26.65 |
| 4 | 25.67 | 26.10 | 25.32 | 26.13 | 25.92 | 26.45 | 25.78 | 26.22 | 26.20 | 26.80 | 26.15 | 26.88 |
| 5 | 25.43 | 26.07 | 25.35 | 26.11 | 25.78 | 26.37 | 25.95 | 26.35 | 26.41 | 27.05 | 26.15 | 26.87 |
| 6 | 25.43 | 26.15 | 25.60 | 27.25 | 25.75 | 26.67 | 25.92 | 26.38 | 26.47 | 27.16 | 26.23 | 26.83 |
| 7 | 25.68 | 26.19 | 25.32 | 25.74 | 25.76 | 26.21 | 26.10 | 26.65 | 26.52 | 27.14 | 25.80 | 26.60 |
| 8 | 25.65 | 26.40 | 25.37 | 26.09 | 25.58 | 26.07 | 26.19 | 26.65 | 26.52 | 26.98 | 25.74 | 26.38 |
| 9 | 25.88 | 26.57 | 25.92 | 26.28 | 25.90 | 26.44 | 26.22 | 26.76 | 26.43 | 26.97 | 26.04 | 26.38 |
| 10 | 26.25 | 26.77 | 26.05 | 26.46 | 26.03 | 26.40 | 26.22 | 26.74 | 26.62 | 27.28 | 26.09 | 26.35 |
| 11 | 26.35 | 26.63 | 26.21 | 26.53 | 26.15 | 26.53 | 26.28 | 26.74 | 26.67 | 27.10 | 26.10 | 26.45 |
| 12 | 26.03 | 26.28 | 26.13 | 26.41 | 26.19 | 26.54 | 26.06 | 26.81 | 26.63 | 27.15 | 26.17 | 26.57 |
| 13 | 26.03 | 26.32 | 25.84 | 26.26 | 26.00 | 26.55 | 25.78 | 26.35 | 26.74 | 26.98 | 25.62 | 26.57 |
| 14 | 26.13 | 26.36 | 25.92 | 26.24 | 25.89 | 26.26 | 25.95 | 26.22 | 26.54 | 26.86 | 25.38 | 25.74 |
| 15 | 26.27 | 26.48 | 25.87 | 26.38 | 25.78 | 26.14 | 26.13 | 26.29 | 26.65 | 26.91 | 25.34 | 25.78 |
| 16 | 26.23 | 26.62 | 25.80 | 26.31 | 25.75 | 26.07 | 25.93 | 26.32 | 26.63 | 27.02 | 25.44 | 25.97 |
| 17 | 26.22 | 26.38 | 25.92 | 26.26 | 25.80 | 26.20 | 25.87 | 26.08 | 26.63 | 27.03 | 25.63 | 26.05 |
| 18 | 26.22 | 26.47 | 25.85 | 26.30 | 25.91 | 26.22 | 25.93 | 26.37 | 26.34 | 26.84 | 25.43 | 25.99 |
| 19 | 25.81 | 26.40 | 25.80 | 26.30 | 25.43 | 26.05 | 26.05 | 26.37 | 26.21 | 26.91 | 25.37 | 26.08 |
| 20 | 25.77 | 26.05 | 25.40 | 25.95 | 25.42 | 25.93 | 25.83 | 26.30 | 26.20 | 26.93 | 25.42 | 26.33 |
| 21 | 25.77 | 26.41 | 25.40 | 26.06 | 25.73 | 26.14 | 25.88 | 26.43 | 26.04 | 26.93 | 25.74 | 26.47 |
| 22 | 26.32 | 26.91 | 25.71 | 26.25 | 25.79 | 26.16 | 26.07 | 26.68 | 25.81 | 26.60 | 25.72 | 26.49 |
| 23 | 26.36 | 26.87 | 25.71 | 26.04 | 25.80 | 26.23 | 26.20 | 26.83 | 25.78 | 26.40 | 25.96 | 26.32 |
| 24 | 25.99 | 26.53 | 25.65 | 26.16 | 25.55 | 25.83 | 26.26 | 26.84 | 25.72 | 26.33 | 26.10 | 26.65 |
| 25 | 25.88 | 26.15 | 26.02 | 26.32 | 25.55 | 26.20 | 26.08 | 26.83 | 25.81 | 26.28 | 26.26 | 26.67 |
| 26 | 25.72 | 25.97 | 26.13 | 26.48 | 26.07 | 26.57 | 26.34 | 26.77 | 25.66 | 26.25 | 26.01 | 26.65 |
| 27 | 25.70 | 26.23 | 26.00 | 26.49 | 26.07 | 26.58 | 26.11 | 26.77 | 25.94 | 26.24 | 25.79 | 26.00 |
| 28 | 26.00 | 26.35 | 25.73 | 26.21 | 26.08 | 26.43 | 26.44 | 26.77 | 25.88 | 26.24 | 25.61 | 25.88 |
| 29 | 26.15 | 26.35 | .... | .... | 26.10 | 26.48 | 26.51 | 26.83 | 25.80 | 26.06 | 25.63 | 26.13 |
| 30 | 25.95 | 26.35 | .... | .... | 26.08 | 26.60 | 26.37 | 26.61 | 25.79 | 26.42 | 25.88 | 26.50 |
| 31 | 26.07 | 26.25 | .... | .... | 26.02 | 26.39 | .... | .... | 26.08 | 26.50 | .... | .... |

9--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | November | | December | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 25.96 | 26.63 | 25.56 | 26.06 | 25.30 | 25.76 | ..... | ..... | 25.10 | 25.68 | 25.55 | 26.24 |
| 2 | 25.85 | 26.52 | 25.55 | 25.95 | 25.23 | 25.72 | ..... | ..... | 24.88 | 25.30 | 25.70 | 26.20 |
| 3 | 25.77 | 26.35 | 25.32 | 25.85 | 25.43 | 25.95 | ..... | ..... | 24.73 | 25.31 | 25.46 | 25.96 |
| 4 | 25.65 | 26.25 | 25.51 | 25.92 | 25.58 | 25.95 | ..... | ..... | 24.97 | 25.40 | 25.42 | 25.82 |
| 5 | 25.84 | 26.65 | 25.49 | 25.88 | 25.49 | 25.86 | ..... | ..... | 24.92 | 25.42 | 25.44 | 25.75 |
| 6 | 25.98 | 26.63 | 25.36 | 25.78 | 25.40 | 25.83 | ..... | ..... | 24.93 | 25.50 | 25.39 | 25.71 |
| 7 | 26.28 | 26.86 | 25.23 | 25.52 | 25.34 | 25.75 | ..... | ..... | 25.09 | 25.49 | 25.37 | 25.57 |
| 8 | 26.01 | 26.86 | 25.15 | 25.38 | 25.35 | 25.77 | ..... | ..... | 24.82 | 25.27 | 25.35 | 25.56 |
| 9 | 25.71 | 26.88 | 25.13 | 25.41 | 25.45 | 26.00 | ..... | ..... | 25.27 | 25.65 | 25.35 | 25.76 |
| 10 | 25.60 | 25.88 | 25.08 | 25.35 | 25.50 | 25.95 | ..... | ..... | 25.10 | 25.62 | 25.36 | 25.83 |
| 11 | 25.73 | 25.98 | 25.18 | 25.61 | 25.51 | 26.06 | ..... | ..... | 24.43 | 25.18 | 25.36 | 25.76 |
| 12 | 25.83 | 26.20 | 25.30 | 25.71 | 25.52 | 26.08 | ..... | ..... | 24.43 | 24.95 | 25.30 | 25.77 |
| 13 | 25.79 | 26.27 | 25.27 | 25.62 | ..... | ..... | ..... | ..... | 24.67 | 25.17 | 25.31 | 25.64 |
| 14 | 25.79 | 26.27 | 25.11 | 25.47 | ..... | ..... | ..... | ..... | 24.90 | 25.32 | 25.15 | 25.63 |
| 15 | 25.67 | 26.10 | 24.99 | 25.59 | ..... | ..... | ..... | ..... | 24.77 | 25.20 | 24.97 | 25.41 |
| 16 | 25.58 | 26.36 | 25.08 | 25.59 | ..... | ..... | ..... | ..... | 24.69 | 25.07 | 24.84 | 25.44 |
| 17 | 25.64 | 26.34 | 25.12 | 25.52 | ..... | ..... | ..... | ..... | 24.77 | 25.48 | 25.32 | 25.71 |
| 18 | 25.59 | 26.23 | 25.25 | 25.65 | ..... | ..... | ..... | ..... | 25.16 | 25.55 | 25.43 | 25.78 |
| 19 | 25.28 | 25.95 | 25.23 | 25.58 | ..... | ..... | ..... | ..... | 25.21 | 25.64 | 25.41 | 25.71 |
| 20 | 25.45 | 25.89 | 25.15 | 25.39 | ..... | ..... | ..... | ..... | 25.38 | 25.80 | 25.51 | 25.86 |
| 21 | 25.37 | 25.89 | 25.17 | 25.45 | ..... | ..... | ..... | ..... | 25.46 | 25.76 | 25.33 | 25.60 |
| 22 | 25.58 | 25.96 | 25.22 | 25.56 | ..... | ..... | ..... | ..... | 25.27 | 25.55 | 25.43 | 25.72 |
| 23 | 25.85 | 26.30 | 25.32 | 25.58 | ..... | ..... | 25.22 | 25.55 | 25.16 | 25.49 | 25.57 | 25.77 |
| 24 | 26.10 | 26.35 | 25.34 | 25.70 | ..... | ..... | 25.14 | 25.28 | 25.12 | 25.33 | 25.50 | 25.89 |
| 25 | 25.89 | 26.14 | 25.42 | 25.92 | ..... | ..... | 25.16 | 25.29 | 24.87 | 25.24 | 25.40 | 25.93 |
| 26 | 25.86 | 26.11 | 25.53 | 26.04 | ..... | ..... | 25.22 | 25.47 | 24.87 | 25.26 | 25.45 | 26.14 |
| 27 | 25.72 | 26.04 | 25.68 | 26.16 | ..... | ..... | 25.26 | 25.50 | 25.10 | 25.60 | 25.62 | 26.32 |
| 28 | 25.63 | 26.83 | 25.60 | 26.06 | ..... | ..... | 25.25 | 25.60 | 25.08 | 25.73 | 25.45 | 26.06 |
| 29 | 25.53 | 26.02 | 25.36 | 25.87 | ..... | ..... | 25.22 | 25.67 | 25.58 | 26.16 | 25.35 | 26.07 |
| 30 | 25.58 | 26.03 | 25.45 | 25.89 | ..... | ..... | 25.15 | 25.58 | 25.62 | 26.08 | 25.35 | 25.92 |
| 31 | 25.57 | 25.95 | 25.35 | 25.70 | ..... | ..... | 25.08 | 25.70 | ..... | ..... | 25.44 | 26.05 |

19 (*1072, p. 88). City of Clearwater. NE¼NE¼ sec. 9, T. 29 S., R. 15 E., on east side of Garden Avenue, 200 feet south of Marshall Street.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 25.69 | 26.00 | 25.67 | 25.93 | 25.17 | 25.72 | 25.48 | 26.04 | 25.48 | 25.77 | 26.11 | 26.44 |
| 2 | 25.61 | 25.96 | 25.85 | 26.22 | 25.42 | 25.85 | 25.38 | 25.85 | 25.43 | 25.79 | 25.95 | 26.43 |
| 3 | 25.63 | 25.87 | 25.64 | 26.35 | 25.70 | 26.17 | 25.46 | 25.78 | 25.56 | 25.86 | 25.94 | 26.45 |
| 4 | 25.66 | 26.07 | 25.19 | 25.95 | 25.62 | 26.13 | 25.48 | 25.84 | 25.57 | 26.01 | 26.02 | 26.59 |
| 5 | 25.51 | 26.09 | 25.35 | 26.17 | 25.37 | 26.03 | 25.48 | 25.87 | 25.61 | 26.15 | 25.57 | 26.11 |
| 6 | 25.53 | 26.12 | 25.45 | 26.25 | 25.32 | 25.82 | 25.52 | 25.93 | 25.68 | 26.28 | 25.57 | 26.07 |
| 7 | 25.68 | 26.25 | 25.13 | 25.62 | 25.10 | 25.78 | 25.56 | 26.04 | 25.74 | 26.28 | 25.48 | 25.90 |
| 8 | 25.68 | 26.24 | 25.13 | 25.87 | 25.10 | 25.79 | 25.55 | 25.93 | 25.98 | 26.32 | 25.37 | 25.80 |
| 9 | 25.67 | 26.38 | 25.61 | 26.07 | 25.57 | 26.02 | 25.52 | 26.01 | 25.85 | 26.38 | 25.42 | 25.78 |
| 10 | 26.03 | 26.47 | 25.85 | 26.36 | 25.62 | 26.02 | 25.55 | 25.98 | 25.95 | 26.49 | 25.43 | 25.77 |
| 11 | 25.93 | 26.29 | 25.98 | 26.33 | 25.73 | 26.13 | 25.48 | 25.95 | 26.04 | 26.47 | 25.50 | 25.77 |
| 12 | 25.76 | 26.00 | 25.80 | 26.25 | 25.70 | 26.08 | 25.49 | 26.01 | 25.94 | 26.35 | 25.52 | 25.77 |
| 13 | 25.78 | 26.13 | 25.66 | 26.05 | 25.39 | 26.01 | 25.41 | 25.88 | 26.01 | 26.35 | 25.31 | 25.73 |
| 14 | 25.93 | 26.27 | 25.92 | 26.07 | 25.44 | 25.73 | 25.43 | 25.73 | 25.95 | 26.28 | 25.02 | 25.38 |
| 15 | 26.13 | 26.32 | 25.84 | 26.22 | 25.28 | 25.70 | 25.48 | 25.72 | 25.93 | 26.26 | 25.06 | 25.43 |
| 16 | 26.13 | 26.41 | 25.82 | 26.15 | 25.42 | 25.66 | 25.30 | 25.70 | 25.96 | 26.32 | 25.09 | 25.60 |
| 17 | 26.13 | 26.33 | 25.75 | 26.11 | 25.59 | 25.88 | 25.37 | 25.60 | 25.99 | 26.37 | 25.13 | 25.72 |
| 18 | 26.04 | 26.38 | 25.65 | 26.11 | 25.52 | 25.87 | 25.45 | 25.90 | 25.85 | 26.25 | 25.13 | 25.74 |
| 19 | 25.66 | 26.28 | 25.47 | 26.05 | 25.03 | 25.76 | 25.58 | 25.90 | 25.63 | 26.40 | 25.16 | 25.80 |
| 20 | 26.62 | 25.92 | 25.20 | 25.76 | 25.10 | 25.62 | 25.40 | 25.81 | 25.73 | 26.48 | 25.18 | 25.81 |
| 21 | 25.62 | 26.27 | 25.17 | 25.96 | 25.42 | 25.85 | 25.28 | 25.78 | 25.60 | 26.48 | 25.29 | 25.87 |
| 22 | 26.12 | 26.73 | 25.67 | 26.23 | 25.50 | 25.94 | 25.33 | 25.98 | 25.71 | 26.43 | 25.30 | 25.87 |
| 23 | 26.12 | 26.73 | 25.59 | 26.02 | 25.34 | 25.91 | 25.50 | 26.08 | 25.79 | 26.35 | 25.49 | 26.00 |
| 24 | 25.75 | 26.35 | 25.42 | 26.04 | 25.22 | 25.59 | 25.50 | 26.04 | 25.62 | 26.15 | 25.63 | 25.95 |
| 25 | 25.62 | 26.01 | 25.76 | 26.11 | 25.12 | 26.04 | 25.47 | 25.99 | 25.42 | 26.00 | 25.63 | 25.90 |
| 26 | 25.53 | 25.85 | 25.85 | 26.20 | 25.72 | 26.17 | 25.60 | 26.00 | 25.44 | 26.37 | 25.68 | 25.88 |

19--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 27 | 25.50 | 25.90 | 25.76 | 26.15 | 25.55 | 26.12 | 25.55 | 25.98 | 26.07 | 26.35 | 25.46 | 25.75 |
| 28 | 25.65 | 25.99 | 25.43 | 26.04 | 25.48 | 26.02 | 25.65 | 25.92 | 26.14 | 26.38 | 25.40 | 25.73 |
| 29 | 25.60 | 25.95 | | | 25.55 | 26.02 | 25.63 | 25.99 | 26.02 | 26.31 | 25.40 | 25.75 |
| 30 | 25.44 | 25.85 | | | 25.42 | 25.95 | 25.47 | 25.87 | 25.93 | 26.38 | 25.43 | 25.92 |
| 31 | 25.55 | 25.77 | | | 25.62 | 25.92 | | | 26.12 | 26.52 | | |

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | November | | December | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 25.45 | 25.92 | 25.03 | 25.44 | 24.60 | 25.02 | 24.93 | 25.38 | 24.29 | 25.00 | 25.18 | 25.73 |
| 2 | 25.47 | 25.92 | 25.03 | 25.43 | 24.57 | 24.94 | 24.83 | 25.28 | 24.19 | 24.72 | 25.18 | 25.65 |
| 3 | 25.38 | 25.91 | 25.02 | 25.45 | 24.65 | 25.03 | 24.67 | 25.18 | 24.17 | 24.72 | 25.07 | 25.43 |
| 4 | 25.42 | 25.92 | 25.10 | 25.43 | 24.75 | 25.10 | 24.63 | 25.00 | 24.40 | 24.90 | 24.87 | 25.21 |
| 5 | 25.50 | 26.03 | 25.05 | 25.45 | 24.73 | 25.10 | 24.60 | 24.94 | 24.39 | 24.80 | 24.82 | 25.10 |
| 6 | 25.55 | 25.95 | 25.04 | 25.34 | 24.65 | 25.03 | 24.57 | 25.03 | 24.37 | 24.79 | 24.81 | 25.05 |
| 7 | 25.62 | 26.14 | 24.98 | 25.25 | 24.60 | 25.02 | 24.57 | 24.92 | 24.40 | 24.69 | 24.68 | 25.05 |
| 8 | 25.46 | 26.04 | 24.88 | 25.17 | 24.67 | 25.05 | 24.35 | 24.88 | 24.22 | 24.95 | 24.65 | 24.94 |
| 9 | 25.38 | 25.73 | 24.75 | 25.05 | 24.70 | 25.11 | 24.60 | 25.06 | 24.95 | 25.20 | 24.75 | 25.04 |
| 10 | 25.45 | 25.69 | 24.66 | 24.96 | 24.72 | 25.15 | 24.72 | 25.09 | 24.54 | 25.15 | 24.70 | 25.20 |
| 11 | 25.43 | 25.73 | 24.70 | 25.10 | 24.72 | 25.16 | 24.63 | 25.03 | 23.83 | 24.70 | 24.64 | 25.18 |
| 12 | 25.53 | 25.80 | 24.78 | 25.22 | 24.67 | 25.16 | 24.80 | 25.19 | 24.15 | 24.52 | 24.70 | 25.64 |
| 13 | 25.47 | 25.79 | 24.76 | 25.18 | 24.63 | 25.63 | 25.01 | 25.32 | 24.32 | 24.80 | 24.56 | 25.17 |
| 14 | 25.45 | 25.84 | 24.59 | 25.07 | 24.70 | 25.15 | 24.74 | 25.28 | 24.29 | 24.90 | 24.56 | 25.23 |
| 15 | 25.37 | 25.84 | 24.49 | 25.03 | 24.74 | 25.12 | 24.36 | 25.10 | 24.22 | 24.80 | 24.42 | 25.03 |
| 16 | 25.26 | 25.84 | 24.52 | 25.06 | 24.77 | 25.15 | 24.32 | 24.76 | 24.22 | 24.81 | 24.40 | 25.13 |
| 17 | 25.30 | 25.88 | 24.53 | 25.00 | 24.84 | 25.67 | 24.32 | 24.76 | 24.45 | 25.02 | 24.92 | 25.34 |
| 18 | 25.24 | 25.85 | 24.60 | 25.05 | 25.00 | 26.26 | 24.35 | 24.79 | 24.63 | 24.95 | 25.02 | 25.42 |
| 19 | 25.22 | 25.73 | 24.59 | 24.98 | 24.83 | 25.22 | 24.42 | 24.84 | 24.52 | 24.94 | 25.05 | 25.36 |
| 20 | 25.17 | 25.66 | 24.47 | 24.76 | 24.74 | 25.07 | 24.48 | 24.90 | 24.77 | 25.07 | 25.08 | 25.33 |
| 21 | 25.18 | 25.60 | 24.45 | 24.83 | 24.70 | 25.00 | 24.63 | 24.98 | 24.87 | 25.08 | 24.93 | 25.20 |
| 22 | 25.31 | 25.70 | 24.57 | 24.89 | 24.60 | 24.89 | 24.63 | 24.89 | 24.73 | 24.92 | 25.10 | 25.32 |
| 23 | 25.42 | 25.87 | 24.59 | 24.90 | 24.26 | 24.83 | 24.56 | 24.78 | 24.54 | 24.78 | 25.01 | 25.33 |
| 24 | 25.60 | 25.87 | 24.64 | 24.96 | 24.23 | 24.70 | 24.50 | 24.70 | 24.41 | 24.73 | 24.91 | 25.35 |
| 25 | 25.50 | 25.82 | 24.77 | 25.06 | 24.63 | 24.97 | 24.57 | 24.83 | 24.40 | 24.60 | 24.95 | 25.32 |
| 26 | 25.45 | 25.73 | 24.80 | 25.12 | 24.83 | 25.11 | 24.62 | 24.81 | 24.45 | 24.79 | 25.10 | 25.59 |
| 27 | 25.37 | 25.62 | 24.82 | 25.15 | 24.91 | 25.33 | 24.50 | 24.85 | 24.63 | 25.14 | 25.05 | 25.70 |
| 28 | 25.24 | 25.51 | 24.80 | 25.15 | 25.18 | 25.46 | 24.48 | 24.81 | 24.80 | 25.38 | 24.89 | 25.62 |
| 29 | 25.15 | 25.49 | 24.70 | 25.08 | 25.18 | 25.44 | 24.43 | 24.92 | 25.21 | 25.86 | 24.89 | 25.50 |
| 30 | 25.13 | 25.53 | 24.65 | 25.02 | 25.07 | 25.43 | 24.48 | 24.94 | 25.18 | 25.77 | 24.85 | 25.42 |
| 31 | 25.14 | 25.47 | 24.62 | 25.03 | | | 24.48 | 25.02 | | | 24.83 | 25.34 |

303. R. Duguid. About 0.8 mile southeast of Palm Harbor, 0.52 mile east of County Road 1, 0.2 mile north of State Highway 584, in an orange grove, northeast of owner's residence, NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 12, T. 28 S., R. 15 E. Unused drilled irrigation well, diameter 10 inches, depth about 100 feet. Measuring point, top of 10-inch casing, at land-surface datum. Automatic water-stage recorder installed Nov. 20, 1947. Water level, in feet below land-surface datum, 1947: Nov. 3, 63.21.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Date | High level | Low level | Date | High level | Low level |
|---------|------------|-----------|--------|------------|-----------|
| Nov. 22 | 63.22 | 63.40 | Dec. 2 | 63.80 | 64.15 |
| 23 | 63.15 | 63.25 | 3 | 63.76 | 64.02 |
| 24 | 62.95 | 63.23 | 4 | 63.67 | 63.86 |
| 25 | 62.95 | 63.13 | 5 | 63.67 | 63.80 |
| 26 | 62.98 | 63.32 | 6 | 63.63 | 63.75 |
| 27 | 63.20 | 63.62 | 7 | 63.47 | 63.74 |
| 28 | 63.32 | 63.82 | 8 | 63.58 | 63.65 |
| 29 | 63.73 | 64.18 | 9 | 63.58 | 63.70 |
| 30 | 63.72 | 64.17 | 10 | 63.56 | 63.80 |
| Dec. 1 | 63.78 | 64.19 | 11 | 63.52 | 63.80 |

303--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Date | High level | Low level | Date | High level | Low level |
|---------|------------|-----------|---------|------------|-----------|
| Dec. 12 | 63.32 | 63.80 | Dec. 22 | 64.19 | 64.40 |
| 13 | 63.37 | 63.77 | 23 | 64.13 | 64.37 |
| 14 | 63.30 | 63.87 | 24 | 64.05 | 64.42 |
| 15 | 63.77 | 64.15 | 25 | 64.05 | 64.45 |
| 16 | 63.60 | 64.22 | 26 | 64.14 | 64.68 |
| 17 | 64.06 | 64.40 | 27 | 64.20 | 64.75 |
| 18 | 64.13 | 64.44 | 28 | 64.18 | 64.70 |
| 19 | 64.17 | 64.37 | 29 | 64.09 | 64.65 |
| 20 | 64.18 | 64.36 | 30 | 64.06 | 64.59 |
| 21 | 64.06 | 64.20 | 31 | 64.07 | 64.50 |

467. Coachman Packing Co. About 0.28 mile northeast of Coachman, about 600 feet northwest of State Highway 590, and 50 feet north of small residence, in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 7, T. 29 S., R. 16 E. Unused drilled irrigation well, diameter 12 inches, depth 428 feet, cased to 63 feet. Measuring point, top of 12-inch casing, 0.4 foot above land-surface datum and 57.81 feet above mean sea level. Automatic water-stage recorder installed Aug. 22, 1947.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | August | | September | | October | | November | | December | |
|-----|--------|-------|-----------|-------|---------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | | | 42.07 | 42.17 | 42.28 | 42.38 | ..... | ..... | 42.65 | 42.79 |
| 2 | | | 42.07 | 42.17 | 42.23 | 42.31 | ..... | ..... | 42.70 | 42.79 |
| 3 | | | 42.11 | 42.18 | 42.15 | 42.25 | ..... | ..... | 42.63 | 42.72 |
| 4 | | | 42.17 | 42.20 | 42.05 | 42.15 | ..... | ..... | 42.48 | 42.63 |
| 5 | | | 42.17 | 42.19 | 41.90 | 42.05 | ..... | ..... | 42.40 | 42.48 |
| 6 | | | 42.14 | 42.18 | 41.95 | 42.05 | ..... | ..... | 42.37 | 42.41 |
| 7 | | | 42.14 | 42.17 | 41.95 | 42.05 | ..... | ..... | 42.30 | 42.40 |
| 8 | | | 42.15 | 42.20 | 41.90 | 42.03 | ..... | ..... | 42.28 | 42.33 |
| 9 | | | 42.16 | 42.28 | 41.98 | 42.12 | ..... | ..... | 42.23 | 42.38 |
| 10 | | | 42.17 | 42.31 | 42.00 | 42.12 | ..... | ..... | 42.30 | 42.40 |
| 11 | | | 42.11 | 42.31 | 41.99 | 42.13 | ..... | ..... | 42.29 | 42.39 |
| 12 | | | 42.07 | 42.24 | 42.10 | 42.31 | ..... | ..... | 42.28 | 42.43 |
| 13 | | | 42.06 | 42.18 | 42.30 | 42.43 | ..... | ..... | 42.32 | 42.41 |
| 14 | | | 42.09 | 42.22 | 42.31 | 42.43 | ..... | ..... | 42.30 | 42.40 |
| 15 | | | 42.07 | 42.22 | 42.13 | 42.33 | ..... | ..... | 42.25 | 42.40 |
| 16 | | | 42.08 | 42.17 | 41.96 | 42.13 | ..... | ..... | 42.20 | 42.43 |
| 17 | | | 42.17 | 42.32 | ..... | ..... | ..... | ..... | 42.40 | 42.55 |
| 18 | | | 42.32 | 42.79 | ..... | ..... | ..... | ..... | 42.51 | 42.60 |
| 19 | | | 42.28 | 42.67 | ..... | ..... | ..... | ..... | 42.58 | 42.60 |
| 20 | | | 42.10 | 42.28 | ..... | ..... | ..... | ..... | 42.60 | 42.62 |
| 21 | | | 42.00 | 42.11 | ..... | ..... | ..... | ..... | 42.45 | 42.57 |
| 22 | | | 41.73 | 42.02 | ..... | ..... | ..... | ..... | 42.50 | 42.64 |
| 23 | | | 41.48 | 41.73 | ..... | ..... | 41.98 | 42.10 | 42.59 | 42.66 |
| 24 | | | 41.50 | 41.68 | ..... | ..... | 41.88 | 42.00 | 42.58 | 42.68 |
| 25 | | | 41.66 | 41.82 | ..... | ..... | 41.79 | 41.90 | 42.50 | 42.67 |
| 26 | | | 41.80 | 41.94 | ..... | ..... | 41.80 | 41.99 | 42.60 | 42.78 |
| 27 | 42.07 | 42.22 | 41.92 | 42.12 | ..... | ..... | 41.94 | 42.22 | 42.68 | 42.80 |
| 28 | 42.10 | 42.22 | 42.12 | 42.31 | ..... | ..... | 42.17 | 42.50 | 42.68 | 42.79 |
| 29 | 42.07 | 42.21 | 42.28 | 42.38 | ..... | ..... | 42.50 | 42.69 | 42.60 | 42.72 |
| 30 | 42.04 | 42.17 | 42.28 | 42.38 | ..... | ..... | 42.59 | 42.72 | 42.60 | 42.70 |
| 31 | 42.04 | 42.15 | ..... | ..... | ..... | ..... | ..... | ..... | 42.58 | 42.68 |

488. City of St. Petersburg. About 2.6 miles northeast of Pinellas Park, about 1.0 mile northeast of intersection of 74th Avenue N. with State Highway 600, about 700 feet south of State Highway 600, in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 26, T. 30 S., R. 16 E. Unused drilled public-supply well, diameter 14 inches, depth 300 feet. Measuring point, top of 14-inch casing, at land-surface datum and 9.72 feet above mean sea level. Automatic water-stage recorder installed Aug. 19, 1947.

488--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | September | | October | | November | | December | |
|-----|-----------|------|---------|------|----------|------|----------|------|
| | High | Low | High | Low | High | Low | High | Low |
| 1 | .... | .... | 1.80 | 1.98 | 1.18 | 1.46 | 1.81 | 2.11 |
| 2 | .... | .... | 1.69 | 1.87 | .93 | 1.22 | 1.79 | 2.10 |
| 3 | .... | .... | 1.59 | 1.75 | .90 | 1.31 | 1.65 | 1.90 |
| 4 | .... | .... | 1.32 | 1.60 | 1.17 | 1.50 | 1.46 | 1.76 |
| 5 | .... | .... | 1.23 | 1.50 | 1.14 | 1.49 | 1.40 | 1.57 |
| 6 | .... | .... | 1.39 | 1.62 | 1.11 | 1.40 | 1.40 | 1.53 |
| 7 | .... | .... | 1.25 | 1.61 | 1.08 | 1.40 | 1.40 | 1.53 |
| 8 | .... | .... | 1.12 | 1.55 | 1.01 | 1.50 | 1.23 | 1.41 |
| 9 | .... | .... | 1.32 | 1.70 | 1.50 | 1.85 | 1.21 | 1.51 |
| 10 | .... | .... | 1.40 | 1.70 | 1.49 | 1.85 | 1.35 | 1.60 |
| 11 | .... | .... | 1.38 | 1.65 | .87 | 1.49 | 1.27 | 1.59 |
| 12 | 1.23 | 1.63 | 1.64 | 1.82 | .67 | 1.12 | 1.21 | 1.59 |
| 13 | 1.23 | 1.59 | 1.76 | 1.94 | .97 | 1.30 | 1.31 | 1.59 |
| 14 | 1.31 | 1.60 | 1.68 | 1.84 | 1.09 | 1.33 | 1.27 | 1.68 |
| 15 | 1.34 | 1.61 | 1.40 | 1.68 | .92 | 1.25 | 1.20 | 1.67 |
| 16 | 1.40 | 1.57 | 1.09 | 1.40 | .89 | 1.27 | 1.08 | 1.65 |
| 17 | 1.53 | 2.00 | 1.11 | 1.38 | 1.10 | 1.53 | 1.56 | 1.80 |
| 18 | 2.00 | 2.90 | 1.17 | 1.43 | 1.24 | 1.53 | 1.66 | 1.85 |
| 19 | 1.60 | 2.10 | 1.27 | 1.50 | .... | .... | 1.70 | 1.82 |
| 20 | 1.48 | 1.65 | 1.34 | 1.60 | .... | .... | 1.70 | 1.83 |
| 21 | 1.45 | 1.62 | 1.47 | 1.70 | .... | .... | 1.48 | 1.70 |
| 22 | 1.30 | 1.57 | 1.46 | 1.68 | .... | .... | 1.62 | 1.85 |
| 23 | .89 | 1.44 | 1.39 | 1.60 | .... | .... | 1.63 | 1.80 |
| 24 | .89 | 1.38 | 1.32 | 1.53 | .... | .... | 1.57 | 1.78 |
| 25 | 1.35 | 1.70 | 1.40 | 1.61 | .... | .... | 1.40 | 1.71 |
| 26 | 1.60 | 1.81 | 1.40 | 1.61 | .... | .... | 1.56 | 1.99 |
| 27 | 1.74 | 2.07 | 1.35 | 1.58 | 1.23 | 1.63 | 1.62 | 2.00 |
| 28 | 2.00 | 2.19 | 1.28 | 1.46 | 1.43 | 2.04 | 1.58 | 1.95 |
| 29 | 1.97 | 2.17 | 1.28 | 1.50 | 1.96 | 2.32 | 1.40 | 1.81 |
| 30 | 1.85 | 2.08 | 1.18 | 1.45 | 1.84 | 2.20 | 1.40 | 1.76 |
| 31 | .... | .... | 1.22 | 1.50 | .... | .... | 1.40 | 1.71 |

555. Geological Survey, U. S. Dept. of Interior. 0.6 mile southeast of Tarpon Springs, on south edge of city dump, near SE. corner SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 13, T. 27 S., R. 15 E. Drilled observation well, diameter 6 inches, depth 141 feet, cased to 33 feet. Measuring point, top of 6-inch casing, 2.9 feet above land-surface datum and 14.88 feet above mean sea level. Automatic water-stage recorder installed Oct. 6, 1947.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | October | | November | | December | |
|-----|---------|------|----------|------|----------|------|
| | High | Low | High | Low | High | Low |
| 1 | .... | .... | 8.48 | 9.39 | 8.93 | 9.62 |
| 2 | .... | .... | 8.37 | 9.31 | 9.04 | 9.90 |
| 3 | .... | .... | 8.50 | 9.38 | 9.13 | 9.87 |
| 4 | .... | .... | .... | .... | 9.07 | 9.56 |
| 5 | .... | .... | 8.82 | 9.60 | 9.02 | 9.40 |
| 6 | .... | .... | 8.85 | 9.65 | 8.98 | 9.33 |
| 7 | .... | .... | 8.87 | 9.62 | 8.70 | 9.07 |
| 8 | .... | .... | 8.69 | 9.33 | 8.56 | 9.15 |
| 9 | .... | .... | 9.25 | 9.80 | 8.62 | 9.43 |
| 10 | 8.47 | 8.71 | 8.82 | 9.80 | 8.45 | 9.48 |
| 11 | 8.40 | 8.72 | 8.11 | 9.39 | 8.30 | 9.50 |
| 12 | 8.43 | 8.75 | 8.51 | 9.56 | 8.33 | 9.47 |
| 13 | 8.49 | 8.81 | 8.56 | 9.42 | 8.35 | 9.45 |
| 14 | 8.40 | 8.69 | 8.37 | 9.30 | 8.25 | 9.45 |
| 15 | 8.29 | 8.72 | 9.32 | 9.38 | .... | .... |
| 16 | 8.27 | 8.71 | 8.30 | 9.30 | 8.37 | 9.70 |
| 17 | 8.21 | 8.82 | 8.55 | 9.19 | 8.78 | 9.46 |
| 18 | 8.20 | 8.71 | 8.55 | 9.00 | 8.77 | 9.47 |
| 19 | 8.20 | 8.60 | 8.48 | 9.09 | 8.80 | 9.58 |
| 20 | 8.20 | 8.57 | 8.60 | 9.07 | 8.77 | 9.33 |
| 21 | 8.26 | 8.51 | 8.60 | 9.01 | 8.74 | 9.34 |
| 22 | 8.15 | 8.50 | 8.58 | 8.79 | 8.77 | 9.26 |

555--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | October | | November | | December | |
|-----|---------|------|----------|------|----------|------|
| | High | Low | High | Low | High | Low |
| 23 | 8.07 | 8.50 | 8.36 | 8.78 | 8.80 | 9.36 |
| 24 | 8.00 | 8.61 | 8.34 | 8.80 | 8.79 | 9.44 |
| 25 | 8.29 | 8.62 | 8.35 | 8.80 | 8.75 | 9.49 |
| 26 | 8.20 | 8.67 | 8.39 | 9.05 | 8.75 | 9.50 |
| 27 | 8.19 | 8.71 | 8.42 | 9.00 | 8.66 | 9.48 |
| 28 | 8.17 | 8.81 | 8.48 | 8.90 | 8.60 | 9.51 |
| 29 | 8.27 | 9.01 | 8.69 | 9.21 | 8.55 | 9.64 |
| 30 | 8.22 | 9.14 | 8.73 | 9.68 | 8.59 | 9.65 |
| 31 | 8.57 | 9.28 | | | 8.60 | 9.65 |

Polk County44 (*1072, p. 89). P. E. Williams. SW $\frac{1}{4}$ 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 pasture on the south side of drainage ditch.High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|------|----------|------|-------|------|-------|------|------|------|------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 2.82 | 2.87 | 3.16 | 3.23 | 2.58 | 2.65 | 2.28 | 2.34 | 2.40 | 2.45 | 2.21 | 2.25 |
| 2 | 2.82 | 2.87 | 3.16 | 3.22 | 2.50 | 2.58 | 2.25 | 2.32 | 2.40 | 2.45 | 2.23 | 2.30 |
| 3 | 2.81 | 2.88 | 3.14 | 3.20 | 2.56 | 2.61 | 2.29 | 2.37 | 2.42 | 2.49 | 2.28 | 2.35 |
| 4 | 2.83 | 2.88 | 3.12 | 3.28 | 2.58 | 2.63 | 2.35 | 2.41 | 2.48 | 2.53 | 2.34 | 2.39 |
| 5 | 2.82 | 2.88 | 3.24 | 3.28 | 2.59 | 2.64 | 2.38 | 2.44 | 2.51 | 2.57 | 2.35 | 2.38 |
| 6 | 2.85 | 2.92 | 3.20 | 3.28 | 2.61 | 2.66 | 2.42 | 2.45 | 2.54 | 2.60 | 2.37 | 2.41 |
| 7 | 2.87 | 2.94 | 3.15 | 3.22 | 2.62 | 2.66 | 2.44 | 2.47 | 2.57 | 2.62 | 2.41 | 2.45 |
| 8 | 2.88 | 2.93 | 3.16 | 3.19 | 2.60 | 2.68 | 2.45 | 2.47 | 2.53 | 2.63 | 2.45 | 2.50 |
| 9 | 2.92 | 2.96 | 3.18 | 3.20 | 2.66 | 2.69 | 2.47 | 2.52 | 2.37 | 2.53 | 2.50 | 2.55 |
| 10 | 2.93 | 2.97 | 3.18 | 3.22 | 2.66 | 2.69 | 2.52 | 2.56 | 2.37 | 2.41 | 2.50 | 2.57 |
| 11 | 2.92 | 2.97 | 3.20 | 3.22 | 2.69 | 2.74 | 2.54 | 2.60 | 2.41 | 2.46 | 2.40 | 2.50 |
| 12 | 2.91 | 2.94 | 3.19 | 3.25 | 2.73 | 2.74 | 2.25 | 2.60 | 2.45 | 2.48 | 2.37 | 2.40 |
| 13 | 2.94 | 3.04 | 3.61 | 3.21 | 2.73 | 2.75 | 1.96 | 2.25 | 2.47 | 2.52 | 2.37 | 2.41 |
| 14 | 2.99 | 3.06 | 2.60 | 2.61 | 2.56 | 2.74 | 1.90 | 1.97 | 2.52 | 2.57 | 1.79 | 2.40 |
| 15 | 3.01 | 3.08 | 2.47 | 2.50 | 2.40 | 2.56 | 1.87 | 1.92 | 2.56 | 2.62 | 1.61 | 1.79 |
| 16 | 3.02 | 3.10 | 2.49 | 2.55 | 2.33 | 2.40 | 1.89 | 1.95 | 2.60 | 2.66 | 1.52 | 1.61 |
| 17 | 3.03 | 3.11 | 2.52 | 2.60 | 2.40 | 2.43 | 1.95 | 2.01 | 2.65 | 2.70 | 1.50 | 1.58 |
| 18 | 3.04 | 3.11 | 2.57 | 2.61 | 2.39 | 2.44 | 1.99 | 2.05 | 2.67 | 2.73 | 1.50 | 1.55 |
| 19 | 2.98 | 3.06 | 2.57 | 2.62 | 2.16 | 2.43 | 2.01 | 2.05 | 2.69 | 2.75 | 1.49 | 1.55 |
| 20 | 3.00 | 3.13 | 2.50 | 2.62 | 2.14 | 2.20 | 2.02 | 2.08 | 2.73 | 2.78 | 1.48 | 1.52 |
| 21 | 3.07 | 3.13 | 2.55 | 2.62 | 2.16 | 2.20 | 2.05 | 2.10 | 2.77 | 2.82 | 1.51 | 1.55 |
| 22 | 3.10 | 3.13 | 2.60 | 2.64 | 2.16 | 2.21 | 2.10 | 2.18 | 2.63 | 2.87 | 1.50 | 1.56 |
| 23 | 3.07 | 3.13 | 2.58 | 2.63 | 2.15 | 2.21 | 2.18 | 2.20 | 2.57 | 2.63 | 1.49 | 1.55 |
| 24 | 3.06 | 3.12 | 2.60 | 2.71 | 2.14 | 2.17 | 2.20 | 2.22 | 2.57 | 2.58 | 1.54 | 1.60 |
| 25 | 3.06 | 3.11 | 2.71 | 2.73 | 2.15 | 2.27 | 2.22 | 2.27 | 2.54 | 2.62 | 1.60 | 1.63 |
| 26 | 3.04 | 3.07 | 2.71 | 2.74 | 2.27 | 2.30 | 2.27 | 2.30 | 2.50 | 2.53 | 1.60 | 1.62 |
| 27 | 3.05 | 3.12 | 2.70 | 2.74 | 2.26 | 2.30 | 2.28 | 2.34 | 2.50 | 2.54 | 1.56 | 1.63 |
| 28 | 3.10 | 3.14 | 2.65 | 2.70 | 2.25 | 2.33 | 2.33 | 2.41 | 2.35 | 2.55 | 1.56 | 1.60 |
| 29 | 3.10 | 3.15 | | | 2.30 | 2.32 | 2.38 | 2.43 | 2.28 | 2.35 | 1.50 | 1.62 |
| 30 | 3.11 | 3.17 | | | 2.27 | 2.35 | 2.37 | 2.43 | 2.22 | 2.35 | 1.47 | 1.51 |
| 31 | 3.13 | 3.22 | | | 2.28 | 2.35 | | | 2.20 | 2.24 | | |

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | November | | December | |
|-----|------|------|--------|------|-----------|------|---------|------|----------|------|----------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 1.48 | 1.55 | 1.40 | 1.47 | 1.47 | 1.55 | 0.83 | 0.90 | 1.34 | 1.38 | 1.02 | 1.08 |
| 2 | 1.29 | 1.53 | 1.46 | 1.55 | 1.42 | 1.47 | .88 | .91 | 1.37 | 1.42 | 1.07 | 1.10 |
| 3 | 1.23 | 1.29 | 1.53 | 1.57 | 1.43 | 1.47 | .90 | .93 | 1.42 | 1.46 | 1.10 | 1.11 |
| 4 | 1.24 | 1.30 | 1.57 | 1.59 | 1.45 | 1.47 | .93 | .94 | 1.45 | 1.48 | 1.11 | 1.13 |
| 5 | 1.29 | 1.35 | 1.57 | 1.62 | 1.45 | 1.48 | .94 | .95 | 1.46 | 1.49 | 1.12 | 1.15 |
| 6 | 1.34 | 1.39 | 1.62 | 1.73 | 1.47 | 1.53 | .92 | .95 | 1.49 | 1.52 | 1.15 | 1.18 |
| 7 | 1.39 | 1.42 | 1.64 | 1.70 | 1.52 | 1.55 | .95 | 1.01 | 1.50 | 1.53 | 1.15 | 1.19 |
| 8 | 1.38 | 1.45 | 1.62 | 1.64 | 1.52 | 1.55 | 1.01 | 1.05 | 1.46 | 1.53 | 1.18 | 1.25 |

44--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | November | | December | |
|-----|------|------|--------|------|-----------|------|---------|------|----------|------|----------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 9 | 1.38 | 1.40 | 1.52 | 1.63 | 1.56 | 1.61 | 1.05 | 1.09 | 1.50 | 1.55 | 1.22 | 1.28 |
| 10 | 1.40 | 1.43 | 1.51 | 1.56 | 1.60 | 1.65 | 1.05 | 1.11 | 1.50 | 1.54 | 1.24 | 1.28 |
| 11 | 1.38 | 1.41 | 1.56 | 1.63 | 1.64 | 1.68 | 1.03 | 1.08 | 1.47 | 1.55 | 1.25 | 1.31 |
| 12 | 1.25 | 1.39 | 1.61 | 1.64 | 1.66 | 1.72 | 1.05 | 1.11 | 1.45 | 1.52 | 1.28 | 1.34 |
| 13 | 1.22 | 1.25 | 1.60 | 1.66 | 1.69 | 1.77 | 1.07 | 1.12 | 1.48 | 1.53 | 1.29 | 1.34 |
| 14 | 1.23 | 1.27 | 1.50 | 1.61 | 1.74 | 1.82 | 1.08 | 1.12 | 1.50 | 1.55 | 1.28 | 1.31 |
| 15 | 1.25 | 1.31 | 1.48 | 1.54 | 1.78 | 1.83 | 1.10 | 1.26 | 1.52 | 1.56 | 1.26 | 1.30 |
| 16 | 1.27 | 1.33 | 1.52 | 1.58 | 1.80 | 1.84 | 1.19 | 1.22 | 1.56 | 1.60 | 1.25 | 1.30 |
| 17 | 1.31 | 1.36 | 1.57 | 1.62 | 1.60 | 1.82 | 1.19 | 1.22 | 1.01 | 1.61 | 1.27 | 1.30 |
| 18 | 1.32 | 1.38 | 1.61 | 1.65 | .91 | 1.60 | 1.18 | 1.22 | .83 | 1.01 | 1.28 | 1.32 |
| 19 | 1.30 | 1.37 | 1.56 | 1.67 | .71 | .91 | 1.22 | 1.25 | .81 | .87 | 1.31 | 1.35 |
| 20 | 1.28 | 1.32 | 1.46 | 1.56 | .68 | .71 | 1.25 | 1.27 | .87 | .90 | 1.34 | 1.35 |
| 21 | 1.25 | 1.30 | 1.40 | 1.47 | .69 | .71 | 1.27 | 1.29 | .89 | .92 | 1.25 | 1.35 |
| 22 | 1.26 | 1.34 | 1.39 | 1.41 | .65 | .72 | 1.26 | 1.29 | .90 | .93 | 1.26 | 1.33 |
| 23 | 1.34 | 1.40 | 1.40 | 1.43 | .58 | .67 | 1.26 | 1.29 | .91 | .95 | 1.31 | 1.38 |
| 24 | 1.39 | 1.41 | 1.43 | 1.50 | .67 | .77 | 1.23 | 1.30 | .94 | .99 | 1.34 | 1.38 |
| 25 | 1.40 | 1.42 | 1.50 | 1.55 | .75 | .80 | 1.20 | 1.23 | .94 | 1.00 | 1.34 | 1.43 |
| 26 | 1.42 | 1.44 | 1.54 | 1.60 | .77 | .81 | 1.20 | 1.25 | .95 | 1.00 | 1.40 | 1.45 |
| 27 | 1.43 | 1.46 | 1.58 | 1.63 | .77 | .85 | 1.22 | 1.27 | .90 | .97 | 1.42 | 1.47 |
| 28 | 1.45 | 1.51 | 1.59 | 1.56 | .72 | .75 | 1.25 | 1.30 | .92 | .99 | 1.43 | 1.47 |
| 29 | 1.40 | 1.54 | 1.53 | 1.58 | .72 | .80 | 1.27 | 1.33 | .95 | .99 | 1.45 | 1.50 |
| 30 | 1.36 | 1.41 | 1.51 | 1.57 | .77 | .85 | 1.30 | 1.36 | .97 | 1.03 | 1.48 | 1.51 |
| 31 | 1.36 | 1.40 | 1.50 | 1.55 | | | 1.34 | 1.38 | | | 1.50 | 1.52 |

St. Johns County

2 (*907, p. 18; 937, p. 15; 945, p. 19; 987, p. 40; 1017, p. 167; 1024, p. 74; 1072, p. 89). P. J. Mamucy. 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 29.6 | June 2 | 32.5 | Aug. 12 | 28.4 | Oct. 8 | 29.7 |
| Mar. 10 | 29.9 | July 15 | 31.9 | Sept. 12 | 28.9 | Nov. 20 | 30.5 |
| Apr. 7 | 28.7 | | | | | | |

3 (*907, p. 18; 937, p. 15; 945, p. 20; 987, p. 40; 1017, p. 167; 1024, p. 74; 1072, p. 89). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 34.0 | June 5 | 34.7 | Aug. 12 | 29.7 | Oct. 8 | 30.7 |
| Mar. 10 | 34.4 | July 15 | 33.6 | Sept. 12 | 29.1 | Nov. 20 | 31.3 |
| Apr. 7 | 29.9 | | | | | | |

4 (*907, p. 19; 937, p. 15; 945, p. 20; 987, p. 40; 1017, p. 168; 1024, p. 75; 1072, p. 90). 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. Measurements discontinued.

5 (*907, p. 19; 937, p. 15; 945, p. 20; 987, p. 40; 1017, p. 168; 1024, p. 75; 1072, p. 90). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 42.9 | June 2 | 43.9 | Aug. 12 | 41.4 | Oct. 8 | 40.9 |
| Mar. 10 | 43.7 | July 15 | 44.5 | Sept. 12 | 41.0 | Nov. 20 | 40.5 |
| Apr. 7 | 41.8 | | | | | | |

8 (*907, p. 19; 937, p. 15; 945, p. 20; 987, p. 40; 1017, p. 168; 1024, p. 75; 1072, p. 90). Parish Bros. Near SW. corner NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 4, T. 5 S., R. 28 E., 0.5 mile southwest of Florida East Coast Railway, 2.5 miles southeast of Bayard.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 33.6 | June 2 | 36.5 | Aug. 12 | 30.9 | Oct. 8 | 32.1 |
| Mar. 10 | 34.0 | July 15 | 34.3 | Sept. 12 | 32.2 | Nov. 20 | 32.6 |
| Apr. 7 | 34.1 | | | | | | |

9 (*1072, p. 90). Ponce de Leon Hotel. In St. Augustine, in block north of Ponce de Leon Hotel.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 22 | 30.1 | June 2 | 34.2 | Aug. 12 | 30.0 | Oct. 8 | 31.7 |
| Mar. 10 | 30.7 | July 15 | 33.5 | Sept. 12 | 30.8 | Nov. 20 | 31.8 |
| Apr. 7 | 30.3 | | | | | | |

35 (*1024, p. 75; 1072, p. 90). City of St. Augustine well 6. In St. Augustine, in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 26, T. 7 S., R. 29 E., on west side of Holmes Boulevard, 4,070 feet south of Florida East Coast Railway.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|------|----------|------|-------|------|-------|------|------|------|------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 3.76 | 3.80 | 4.85 | 4.97 | 3.16 | 3.73 | .... | .... | .... | .... | 4.05 | 4.09 |
| 2 | 3.77 | 3.82 | 4.81 | 4.87 | 3.07 | 3.17 | 2.87 | 2.96 | .... | .... | 4.07 | 4.13 |
| 3 | 3.81 | 3.86 | .... | .... | 3.07 | 3.12 | 2.95 | 3.03 | .... | .... | 4.12 | 4.18 |
| 4 | 3.85 | 3.90 | .... | .... | 3.08 | 3.12 | 3.01 | 3.05 | .... | .... | 4.17 | 4.29 |
| 5 | 3.88 | 3.92 | .... | .... | 3.08 | 3.12 | 3.04 | 3.11 | .... | .... | 4.28 | 4.37 |
| 6 | 3.91 | 3.99 | 4.78 | 4.84 | 3.09 | 3.15 | 3.09 | 3.14 | 2.20 | 2.34 | 4.36 | 4.45 |
| 7 | .... | .... | 4.72 | 4.79 | 3.09 | 3.17 | 3.12 | 3.18 | 2.27 | 2.42 | 4.44 | 4.33 |
| 8 | .... | .... | 4.79 | 4.96 | 3.06 | 3.27 | 3.16 | 3.21 | 2.41 | 2.54 | 4.52 | 4.59 |
| 9 | .... | .... | 4.90 | 4.98 | 3.27 | 3.34 | 3.20 | 3.27 | 2.54 | 2.66 | .... | .... |
| 10 | .... | .... | 4.98 | 5.05 | .... | .... | 3.27 | 3.34 | 2.66 | 2.76 | .... | .... |
| 11 | 4.08 | 4.13 | 5.01 | 5.07 | .... | .... | 3.31 | 3.40 | 2.76 | 2.85 | .... | .... |
| 12 | 4.09 | 4.16 | .... | .... | .... | .... | 2.80 | 3.35 | 2.85 | 2.91 | .... | .... |
| 13 | 4.14 | 4.21 | .... | .... | .... | .... | 2.52 | 2.80 | 2.90 | 2.98 | .... | .... |
| 14 | 4.19 | 4.26 | .... | .... | .... | .... | 2.41 | 2.52 | 2.97 | 3.18 | .... | .... |
| 15 | 4.24 | 4.28 | .... | .... | .... | .... | .... | .... | 3.08 | 3.20 | .... | .... |
| 16 | 4.27 | 4.32 | 3.80 | 3.87 | .... | .... | .... | .... | 3.19 | 3.30 | .... | .... |
| 17 | .... | .... | 3.79 | 3.81 | .... | .... | .... | .... | 3.29 | 3.39 | .... | .... |
| 18 | .... | .... | 3.78 | 3.81 | 2.86 | 2.94 | 2.34 | 2.44 | 3.39 | 3.46 | .... | .... |
| 19 | .... | .... | 3.77 | 3.80 | 2.11 | 2.96 | 2.41 | 2.48 | 3.45 | 3.54 | .... | .... |
| 20 | .... | .... | 3.69 | 3.80 | 2.08 | 2.17 | 2.45 | 2.55 | 3.52 | 3.63 | .... | .... |
| 21 | 4.41 | 4.52 | 3.79 | 3.86 | 2.16 | 2.26 | 2.51 | 2.60 | 3.62 | 3.72 | .... | .... |
| 22 | 4.51 | 4.58 | .... | .... | 2.25 | 2.38 | 2.60 | 2.73 | 3.71 | 3.81 | .... | .... |
| 23 | 4.57 | 4.60 | .... | .... | 2.37 | 2.42 | 2.62 | 2.71 | 3.79 | 3.88 | .... | .... |
| 24 | 4.56 | 4.61 | .... | .... | 2.40 | 2.42 | 2.69 | 2.77 | 3.88 | 3.96 | .... | .... |
| 25 | 4.58 | 4.64 | 3.93 | 3.99 | 2.41 | 2.63 | 2.76 | 2.80 | 3.95 | 4.00 | .... | .... |
| 26 | 4.62 | 4.68 | 3.98 | 4.04 | 2.63 | 2.75 | 2.78 | 2.86 | .... | .... | .... | .... |
| 27 | 4.68 | 4.74 | 4.03 | 4.07 | 2.74 | 2.77 | 2.84 | 2.90 | .... | .... | .... | .... |
| 28 | 4.73 | 4.78 | 3.73 | 4.08 | 2.74 | 2.89 | 2.90 | 2.99 | 3.95 | 4.01 | .... | .... |
| 29 | 4.77 | 4.82 | .... | .... | 2.87 | 2.91 | 2.97 | 3.06 | 3.95 | 4.01 | .... | .... |
| 30 | 4.80 | 4.87 | .... | .... | 2.77 | 2.93 | .... | .... | 3.95 | 4.01 | .... | .... |
| 31 | 4.87 | 4.95 | .... | .... | .... | .... | .... | .... | 4.00 | 4.07 | .... | .... |

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | |
|-----|------|------|--------|------|-----------|------|---------|------|
| | High | Low | High | Low | High | Low | High | Low |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | 3.94 | 4.01 | 3.08 | 3.13 |
| 4 | | | | | 3.97 | 4.05 | 3.09 | 3.16 |
| 5 | | | 4.19 | 4.28 | 4.04 | 4.11 | 3.11 | 3.17 |
| 6 | | | 4.27 | 4.36 | 4.11 | 4.18 | 1.65 | 3.12 |
| 7 | | | 4.36 | 4.42 | 4.17 | 4.21 | 1.44 | 1.65 |

35--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | |
|-----|------|------|--------|------|-----------|------|---------|------|
| | High | Low | High | Low | High | Low | High | Low |
| 8 | .... | .... | 4.38 | 4.42 | 4.20 | 4.25 | .... | .... |
| 9 | .... | .... | 3.56 | 4.41 | 4.24 | 4.34 | .... | .... |
| 10 | .... | .... | 3.50 | 3.56 | 4.32 | 4.40 | .... | .... |
| 11 | .... | .... | 3.49 | 3.54 | 4.39 | 4.44 | .... | .... |
| 12 | .... | .... | 3.45 | 3.53 | 4.38 | 4.44 | .... | .... |
| 13 | .... | .... | 3.38 | 3.47 | 4.39 | 4.46 | .... | .... |
| 14 | .... | .... | 3.26 | 3.38 | 4.43 | 4.50 | .... | .... |
| 15 | .... | .... | 3.23 | 3.28 | 4.47 | 4.55 | .... | .... |
| 16 | .... | .... | 3.25 | 3.31 | 4.51 | 4.58 | .... | .... |
| 17 | .... | .... | 3.26 | 3.31 | 4.42 | 4.61 | .... | .... |
| 18 | .... | .... | 3.27 | 3.31 | 4.22 | 4.42 | .... | .... |
| 19 | 3.61 | 3.69 | 3.28 | 3.34 | 4.14 | 4.22 | .... | .... |
| 20 | 3.64 | 3.72 | 3.26 | 3.34 | 4.11 | 4.14 | .... | .... |
| 21 | 3.68 | 3.79 | 3.30 | 3.42 | 4.09 | 4.12 | .... | .... |
| 22 | 3.79 | 3.90 | 3.39 | 3.46 | 4.02 | 4.10 | .... | .... |
| 23 | 3.90 | 3.99 | 3.44 | 3.53 | 2.77 | 4.02 | .... | .... |
| 24 | 3.98 | 4.05 | 3.51 | 3.59 | 2.68 | 2.77 | .... | .... |
| 25 | 4.02 | 4.05 | 3.58 | 3.67 | 2.68 | 2.74 | .... | .... |
| 26 | 4.04 | 4.10 | 3.55 | 3.65 | 2.70 | 2.77 | .... | .... |
| 27 | 4.10 | 4.17 | 3.62 | 3.68 | 2.75 | 2.81 | .... | .... |
| 28 | 4.10 | 4.23 | 3.65 | 3.74 | 2.78 | 2.84 | .... | .... |
| 29 | 3.99 | 4.12 | 3.73 | 3.81 | .... | .... | .... | .... |
| 30 | 3.97 | 3.99 | 3.75 | 3.82 | .... | .... | .... | .... |
| 31 | .... | .... | 3.75 | 3.82 | .... | .... | .... | .... |

St. Lucie County

(Measurements discontinued.)

Santa Rosa County

8. P. L. Coleman. On north side of East River, near NE. corner SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6, T. 2 S., R. 26 W. Used drilled domestic well, diameter 6 inches, depth 1,063 feet, cased to 716 feet. Measuring point, top of 6-inch cross, 2.0 feet above land-surface datum, and 14 feet above mean sea level. Water levels, in feet above land-surface datum, 1947: Sept. 3, 62.5; Oct. 29, 60.3.

10. U. S. Army. At Eglin auxiliary field 7, in Building 7204, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 1, T. 1 S., R. 26 W. Used drilled public-supply well, diameter 18 inches, depth 197 feet, cased to 140 feet. Measuring point, top of $\frac{1}{4}$ -inch tee, 0.70 foot above land-surface datum, and 87.0 feet above mean sea level. Water level, in feet below land-surface datum, 1947: Oct. 28, 84.4.

Sarasota County

5 (*945, p. 20; 987, p. 41; 1017, p. 170; 1024, p. 78; 1072, p. 92). R. M. Cauty. SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, T. 36 S., R. 20 E., about 300 feet south of State Highway 18, about 12 miles east of Sarasota. 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, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|------|----------|------|-------|------|-------|------|------|------|------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 5.48 | 5.56 | 5.77 | 5.90 | 5.04 | 5.24 | 4.78 | 4.89 | 4.89 | 4.98 | 5.57 | 5.68 |
| 2 | 5.48 | 5.57 | 5.83 | 5.95 | 5.03 | 5.17 | 4.69 | 4.85 | 4.79 | 4.95 | 5.53 | 5.65 |
| 3 | 5.48 | 5.56 | 5.75 | 5.95 | 5.13 | 5.22 | 4.69 | 4.82 | 4.79 | 4.87 | 5.53 | 5.63 |
| 4 | 5.48 | 5.59 | 5.61 | 5.82 | 5.13 | 5.21 | 4.73 | 4.82 | 4.85 | 4.96 | 5.55 | 5.64 |
| 5 | 5.49 | 5.59 | 5.72 | 5.87 | 5.08 | 5.20 | 4.76 | 4.85 | 4.90 | 4.99 | 5.58 | 5.65 |
| 6 | 5.52 | 5.61 | 5.75 | 5.89 | 5.00 | 5.13 | 4.84 | 4.93 | 4.92 | 5.01 | 5.56 | 5.62 |
| 7 | 5.56 | 5.63 | 5.64 | 5.78 | 4.90 | 5.05 | 4.86 | 4.94 | 4.94 | 5.03 | 5.54 | 5.60 |
| 8 | 5.55 | 5.63 | 5.67 | 5.76 | 4.84 | 5.00 | 4.84 | 4.91 | 4.97 | 5.03 | 5.51 | 5.56 |

5--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|------|----------|------|-------|------|-------|------|------|------|------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 9 | 5.58 | 5.62 | 5.76 | 5.84 | 4.98 | 5.05 | 4.85 | 4.90 | 4.99 | 5.05 | 5.46 | 5.52 |
| 10 | 5.60 | 5.69 | 5.83 | 5.92 | 4.97 | 5.03 | 4.88 | 4.95 | 5.04 | 5.14 | 5.41 | 5.48 |
| 11 | 5.56 | 5.63 | 5.89 | 5.93 | 4.99 | 5.04 | 4.91 | 4.95 | 5.14 | 5.24 | 5.38 | 5.41 |
| 12 | 5.56 | 5.60 | 5.84 | 5.89 | 5.02 | 5.06 | 4.80 | 4.94 | 5.22 | 5.27 | 5.35 | 5.40 |
| 13 | 5.56 | 5.63 | 5.58 | 5.84 | 4.99 | 5.03 | 4.74 | 4.81 | 5.22 | 5.26 | 5.35 | 5.40 |
| 14 | 5.62 | 5.69 | 5.55 | 5.61 | 4.91 | 4.99 | 4.75 | 4.81 | .... | .... | 5.15 | 5.34 |
| 15 | 5.66 | 5.73 | 5.53 | 5.59 | 4.75 | 4.90 | 4.74 | 4.81 | .... | .... | 5.14 | 5.24 |
| 16 | 5.69 | 5.78 | 5.50 | 5.56 | 4.67 | 4.81 | 4.70 | 4.79 | .... | .... | 5.08 | 5.19 |
| 17 | 5.72 | 5.81 | 5.47 | 5.56 | 4.76 | 4.82 | 4.70 | 4.81 | .... | .... | 5.04 | 5.14 |
| 18 | 5.74 | 5.82 | 5.47 | 5.56 | 4.72 | 4.80 | 4.75 | 4.86 | .... | .... | 4.97 | 5.08 |
| 19 | 5.71 | 5.82 | 5.38 | 5.53 | 4.48 | 4.75 | 4.74 | 4.85 | .... | .... | 4.97 | 5.04 |
| 20 | 5.71 | 5.80 | 5.21 | 5.44 | 4.52 | 4.66 | 4.71 | 4.82 | .... | .... | 4.95 | 5.03 |
| 21 | 5.77 | 5.94 | 5.30 | 5.42 | 4.60 | 4.68 | 4.72 | 4.81 | .... | .... | 4.97 | 5.02 |
| 22 | 5.90 | 5.97 | 5.37 | 5.44 | 4.63 | 4.71 | 4.75 | 4.86 | .... | .... | 4.93 | 4.97 |
| 23 | 5.83 | 5.97 | 5.23 | 5.42 | 4.59 | 4.71 | 4.85 | 4.93 | .... | .... | 4.92 | 4.95 |
| 24 | 5.76 | 5.89 | 5.22 | 5.55 | 4.50 | 4.63 | 4.77 | 4.93 | 5.58 | 5.63 | 4.93 | 4.98 |
| 25 | 5.74 | 5.81 | 5.35 | 5.41 | 4.49 | 4.69 | 4.80 | 4.85 | 5.58 | 5.61 | 4.95 | 5.01 |
| 26 | 5.71 | 5.76 | 5.38 | 5.41 | 4.70 | 4.78 | 4.83 | 4.87 | 5.60 | 5.66 | 4.92 | 4.98 |
| 27 | 5.73 | 5.76 | 5.37 | 5.40 | 4.72 | 4.79 | 4.82 | 4.87 | .... | .... | 4.89 | 4.96 |
| 28 | 5.74 | 5.78 | 5.26 | 5.34 | 4.71 | 4.80 | 4.82 | 4.90 | .... | .... | 4.88 | 4.96 |
| 29 | 5.71 | 5.76 | .... | .... | 4.76 | 4.81 | 4.82 | 4.94 | .... | .... | 4.87 | 4.96 |
| 30 | 5.69 | 5.75 | .... | .... | 4.74 | 4.83 | 4.87 | 4.97 | .... | .... | 4.85 | 4.95 |
| 31 | 5.72 | 5.83 | .... | .... | 4.74 | 4.89 | .... | .... | 5.60 | 5.70 | .... | .... |

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | |
|-----|------|------|--------|------|-----------|------|---------|------|
| | High | Low | High | Low | High | Low | High | Low |
| 1 | 4.81 | 4.94 | 4.52 | 4.67 | .... | .... | 4.15 | 4.28 |
| 2 | 4.79 | 4.87 | 4.57 | 4.67 | .... | .... | 4.22 | 4.30 |
| 3 | 4.70 | 4.83 | 4.62 | 4.70 | .... | .... | 4.26 | 4.32 |
| 4 | 4.73 | 4.82 | 4.59 | 4.69 | .... | .... | .... | .... |
| 5 | 4.80 | 4.87 | 4.43 | 4.60 | .... | .... | 4.22 | 4.29 |
| 6 | 4.83 | 4.90 | 4.46 | 4.52 | .... | .... | 4.18 | 4.25 |
| 7 | 4.84 | 4.91 | 4.41 | 4.52 | .... | .... | 4.21 | 4.25 |
| 8 | 4.79 | 4.88 | 4.30 | 4.42 | .... | .... | 4.24 | 4.31 |
| 9 | 4.76 | 4.84 | 4.25 | 4.37 | .... | .... | 4.28 | 4.37 |
| 10 | 4.79 | 4.82 | 4.30 | 4.37 | .... | .... | 3.98 | 4.38 |
| 11 | 4.77 | 4.85 | 4.37 | 4.47 | .... | .... | 4.12 | 4.24 |
| 12 | 4.65 | 4.86 | 4.38 | 4.48 | .... | .... | 4.19 | 4.28 |
| 13 | 4.64 | 4.76 | 4.23 | 4.45 | 4.08 | 4.18 | 4.22 | 4.31 |
| 14 | 4.72 | 4.81 | 4.22 | 4.38 | 4.09 | 4.18 | 4.17 | 4.27 |
| 15 | 4.72 | 4.82 | 4.29 | 4.41 | 4.06 | 4.16 | .... | .... |
| 16 | 4.73 | 4.84 | 4.20 | 4.41 | 4.05 | 4.13 | .... | .... |
| 17 | 4.77 | 4.88 | 4.19 | 4.34 | 3.66 | 4.11 | .... | .... |
| 18 | 4.80 | 4.90 | 4.22 | 4.39 | .... | .... | .... | .... |
| 19 | 4.70 | 4.85 | 4.21 | 4.33 | 3.97 | 4.00 | .... | .... |
| 20 | 4.52 | 4.82 | 4.26 | 4.33 | 3.94 | 4.00 | .... | .... |
| 21 | 4.54 | 4.61 | 4.25 | 4.31 | .... | .... | .... | .... |
| 22 | 4.56 | 4.59 | 4.24 | 4.30 | .... | .... | .... | .... |
| 23 | 4.52 | 4.66 | .... | .... | .... | .... | .... | .... |
| 24 | 4.52 | 4.64 | 4.25 | 4.31 | .... | .... | .... | .... |
| 25 | 4.56 | 4.70 | 4.23 | 4.29 | .... | .... | .... | .... |
| 26 | 4.52 | 4.68 | 4.25 | 4.27 | .... | .... | .... | .... |
| 27 | 4.52 | 4.64 | .... | .... | .... | .... | .... | .... |
| 28 | 4.58 | 4.68 | .... | .... | 4.02 | 4.12 | .... | .... |
| 29 | 4.60 | 4.69 | .... | .... | 4.06 | 4.16 | .... | .... |
| 30 | 4.60 | 4.69 | .... | .... | 4.10 | 4.14 | .... | .... |
| 31 | 4.59 | 4.69 | .... | .... | .... | .... | .... | .... |

9 (*945, p. 22; 987, p. 42; 1017, p. 171; 1024, p. 80; 1072, p. 94).
Palmer Corporation. At Palmer Farms, near SE. corner SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 20,
T. 36 S., R. 19 E., about 7 miles east of Sarasota. 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, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|------|----------|------|-------|------|-------|------|------|------|------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 2.20 | 2.38 | 2.17 | 2.44 | 1.22 | 1.78 | 1.69 | 1.85 | 1.60 | 1.69 | 1.17 | 1.28 |
| 2 | 2.34 | 2.62 | 1.98 | 2.21 | 1.03 | 1.22 | 1.30 | 1.85 | 1.48 | 1.67 | 1.04 | 1.19 |
| 3 | 2.54 | 2.62 | 1.89 | 2.14 | .96 | 1.05 | .93 | 1.30 | 1.37 | 1.60 | .96 | 1.14 |
| 4 | 2.25 | 2.53 | 1.96 | 2.11 | .92 | 1.01 | .90 | 1.25 | 1.58 | 1.74 | .88 | .99 |
| 5 | 2.16 | 2.27 | 2.07 | 2.60 | .87 | 1.05 | 1.24 | 1.56 | 1.68 | 1.84 | .85 | .91 |
| 6 | 2.14 | 2.26 | 2.13 | 2.65 | .95 | 1.05 | 1.56 | 1.75 | 1.81 | 1.89 | .86 | .94 |
| 7 | 2.08 | 2.32 | 1.88 | 2.13 | .93 | 1.29 | 1.74 | 1.83 | 1.79 | 1.90 | .85 | .93 |
| 8 | 2.07 | 2.32 | 1.78 | 1.88 | .92 | 1.29 | 1.82 | 1.87 | 1.74 | 1.80 | .81 | .86 |
| 9 | 2.02 | 2.22 | 1.86 | 2.14 | .80 | .93 | 1.86 | 1.89 | 1.55 | 1.78 | .82 | 1.07 |
| 10 | 2.06 | 2.24 | 2.15 | 2.66 | .82 | .87 | 1.88 | 1.92 | 1.58 | 1.73 | .96 | 1.13 |
| 11 | 1.93 | 2.14 | 2.15 | 2.62 | .85 | 1.36 | 1.89 | 1.93 | 1.78 | 1.87 | .89 | .96 |
| 12 | 1.89 | 1.93 | 1.93 | 2.14 | 1.36 | 1.65 | .97 | 1.90 | 1.68 | 1.83 | .87 | 1.09 |
| 13 | 1.89 | 2.05 | 1.30 | 1.87 | 1.55 | 1.65 | .74 | .96 | 1.69 | 1.76 | .... | .... |
| 14 | 2.03 | 2.37 | 1.11 | 1.30 | .90 | 1.56 | .67 | .74 | 1.63 | 1.95 | .... | .... |
| 15 | 2.33 | 2.59 | .99 | 1.11 | .60 | .88 | .64 | .81 | 1.78 | 1.93 | .... | .... |
| 16 | 2.37 | 2.49 | .92 | 1.00 | .51 | .61 | .70 | .88 | 1.77 | 1.98 | .... | .... |
| 17 | 2.42 | 2.52 | .97 | 1.42 | .51 | .57 | .67 | .89 | 1.81 | 1.97 | .... | .... |
| 18 | 2.47 | 2.58 | 1.40 | 1.67 | .45 | .54 | .82 | 1.22 | 1.85 | 1.95 | .... | .... |
| 19 | 2.49 | 2.56 | 1.46 | 1.80 | .27 | .53 | 1.17 | 1.34 | 1.75 | 1.97 | .... | .... |
| 20 | 2.31 | 2.43 | 1.38 | 1.83 | .24 | .39 | 1.25 | 1.38 | 1.74 | 1.86 | .... | .... |
| 21 | 2.03 | 2.31 | 1.18 | 1.38 | .34 | .44 | 1.35 | 1.58 | 1.72 | 1.86 | .... | .... |
| 22 | 1.88 | 2.02 | 1.17 | 1.25 | .37 | .49 | 1.56 | 1.78 | 1.76 | 1.95 | .... | .... |
| 23 | 1.85 | 1.95 | 1.04 | 1.22 | .35 | .50 | 1.62 | 1.79 | .... | .... | .... | .... |
| 24 | 1.83 | 2.24 | 1.03 | 1.46 | .31 | .59 | 1.40 | 1.74 | .... | .... | .... | .... |
| 25 | 1.73 | 2.18 | 1.42 | 1.62 | .57 | 1.25 | 1.42 | 1.40 | .... | .... | .... | .... |
| 26 | 1.46 | 1.73 | 1.59 | 1.83 | 1.25 | 1.66 | 1.23 | 1.46 | .... | .... | .... | .... |
| 27 | 1.42 | 1.64 | 1.82 | 1.92 | 1.67 | 1.78 | 1.45 | 1.52 | .... | .... | .... | .... |
| 28 | 1.62 | 1.94 | 1.80 | 1.94 | 1.72 | 1.82 | 1.48 | 1.63 | .... | .... | .... | .... |
| 29 | 1.72 | 2.02 | .... | .... | 1.67 | 1.82 | 1.59 | 1.85 | .... | .... | .... | .... |
| 30 | 2.01 | 2.48 | .... | .... | 1.62 | 1.86 | 1.70 | 1.85 | .... | .... | .... | .... |
| 31 | 2.39 | 2.51 | .... | .... | 1.51 | 1.75 | .... | .... | .95 | 1.24 | .... | .... |

Taylor County

35 (*1072, p. 95). Brooks-Scanlon Corporation. NE $\frac{1}{4}$ sec. 10, T. 5 S.,
R. 8 E., about 1 mile southeast of Foley.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|------|----------|------|-------|------|-------|------|------|------|------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 2.64 | 2.71 | 1.52 | 1.70 | 1.38 | 1.59 | 1.22 | 1.30 | 2.00 | 2.15 | 2.30 | 2.40 |
| 2 | 2.63 | 2.72 | 1.55 | 1.67 | 1.40 | 1.57 | .96 | 1.25 | 2.01 | 2.18 | 2.34 | 2.48 |
| 3 | 2.64 | 2.73 | 1.58 | 1.66 | 1.53 | 1.55 | 1.02 | 1.16 | 2.11 | 2.27 | 2.45 | 2.58 |
| 4 | 2.68 | 2.77 | 1.56 | 1.75 | 1.57 | 1.67 | 1.11 | 1.22 | 2.24 | 2.31 | 2.55 | 2.65 |
| 5 | 2.60 | 2.75 | 1.69 | 1.77 | 1.60 | 1.68 | 1.18 | 1.28 | 2.27 | 2.38 | 2.63 | 2.71 |
| 6 | 2.62 | 2.73 | 1.69 | 1.77 | 1.60 | 1.71 | 1.27 | 1.33 | 2.50 | 2.39 | 2.70 | 2.78 |
| 7 | 2.68 | 2.74 | 1.62 | 1.71 | 1.48 | 1.67 | 1.32 | 1.35 | 2.33 | 2.41 | 2.78 | 2.85 |
| 8 | 2.56 | 2.74 | 1.71 | 1.80 | 1.29 | 1.50 | 1.34 | 1.40 | 2.38 | 2.47 | 2.85 | 2.90 |
| 9 | 2.57 | 2.66 | 1.80 | 1.86 | 1.41 | 1.48 | 1.38 | 1.45 | 2.47 | 2.53 | 2.90 | 2.99 |
| 10 | 2.63 | 2.67 | 1.86 | 1.89 | 1.45 | 1.51 | 1.46 | 1.52 | 2.53 | 2.63 | 2.99 | 3.07 |
| 11 | 2.58 | 2.65 | 1.88 | 1.92 | 1.51 | 1.57 | 1.44 | 1.58 | 2.60 | 2.67 | 2.69 | 3.07 |
| 12 | 2.60 | 2.65 | 1.88 | 1.93 | 1.57 | 1.61 | 1.42 | 1.55 | 2.65 | 2.72 | 2.67 | 2.74 |
| 13 | 2.62 | 2.70 | 1.77 | 1.92 | 1.40 | 1.63 | 1.51 | 1.56 | 2.69 | 2.75 | 2.73 | 2.83 |
| 14 | 2.68 | 2.75 | 1.73 | 1.78 | 1.38 | 1.51 | 1.47 | 1.56 | 2.73 | 2.82 | 2.76 | 2.80 |
| 15 | 2.71 | 2.77 | 1.77 | 1.86 | 1.18 | 1.50 | 1.30 | 1.51 | 2.78 | 2.88 | 2.75 | 2.90 |
| 16 | 2.70 | 2.78 | 1.83 | 1.92 | 1.17 | 1.33 | 1.23 | 1.32 | 2.84 | 2.95 | 2.87 | 3.01 |
| 17 | 2.73 | 2.80 | 1.88 | 1.99 | 1.30 | 1.38 | 1.29 | 1.45 | 2.90 | 3.00 | 2.97 | 3.07 |
| 18 | 2.76 | 2.82 | 1.93 | 2.02 | 1.37 | 1.47 | 1.41 | 1.52 | 2.95 | 3.03 | 3.03 | 3.12 |
| 19 | 2.75 | 2.80 | 1.95 | 2.02 | .95 | 1.45 | 1.47 | 1.57 | 3.00 | 3.08 | 2.97 | 3.10 |
| 20 | 2.65 | 2.81 | 1.76 | 2.02 | 1.02 | 1.15 | 1.51 | 1.59 | 3.05 | 3.12 | 2.69 | 3.00 |

35--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|------|----------|------|-------|------|-------|------|------|------|------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 21 | 2.71 | 2.84 | 1.88 | 2.00 | 1.10 | 1.20 | 1.55 | 1.65 | 3.08 | 3.16 | 2.52 | 2.71 |
| 22 | 2.82 | 2.87 | 1.95 | 2.01 | 1.17 | 1.28 | 1.64 | 1.74 | 2.98 | 3.09 | 1.95 | 2.52 |
| 23 | 2.82 | 2.88 | 1.95 | 2.02 | 1.22 | 1.28 | 1.71 | 1.76 | 3.06 | 3.16 | 1.90 | 1.95 |
| 24 | 2.83 | 2.88 | 2.02 | 2.09 | 1.17 | 1.27 | 1.74 | 1.79 | 3.15 | 3.21 | 1.91 | 2.00 |
| 25 | 2.83 | 2.88 | 2.07 | 2.10 | 1.22 | 1.35 | 1.78 | 1.83 | 3.20 | 3.26 | 1.83 | 2.02 |
| 26 | 2.85 | 2.90 | 2.10 | 2.13 | 1.35 | 1.40 | 1.82 | 1.91 | 2.70 | 3.28 | 1.69 | 1.85 |
| 27 | 2.90 | 2.93 | 2.12 | 2.17 | 1.37 | 1.42 | 1.88 | 1.97 | 2.35 | 2.71 | 1.74 | 1.89 |
| 28 | 2.92 | 2.95 | 1.57 | 2.16 | 1.37 | 1.50 | 1.93 | 2.05 | 2.08 | 2.46 | 1.87 | 2.00 |
| 29 | 2.93 | 2.97 | | | 1.47 | 1.52 | 1.98 | 2.08 | 2.07 | 2.19 | 1.97 | 2.10 |
| 30 | 2.85 | 3.00 | | | 1.22 | 1.52 | 2.02 | 2.14 | 2.08 | 2.24 | 2.07 | 2.17 |
| 31 | 1.70 | 2.85 | | | 1.21 | 1.32 | | | 2.21 | 2.35 | | |

High and low daily water level, in feet with reference to
land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | November | | December | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|----------|--------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | -2.15 | -2.23 | -1.78 | -1.91 | -1.24 | -1.35 | -1.13 | -1.25 | -0.59 | -0.04 | -0.52 | -0.60 |
| 2 | -2.21 | -2.33 | -1.88 | -2.02 | -1.30 | -1.40 | -1.20 | -1.27 | -.34 | -.59 | -.58 | -.60 |
| 3 | -2.30 | -2.43 | -1.97 | -2.09 | -1.37 | -1.47 | -1.25 | -1.32 | -.42 | -.55 | -.59 | -.61 |
| 4 | -2.42 | -2.55 | -1.76 | -2.19 | -1.27 | -1.50 | -1.30 | -1.32 | -.55 | -.63 | -.61 | -.62 |
| 5 | -2.52 | -2.63 | -1.70 | -1.80 | -1.27 | -1.37 | -1.31 | -1.39 | -.61 | -.65 | -.62 | -.64 |
| 6 | -2.60 | -2.70 | -1.57 | -1.90 | -1.37 | -1.48 | -1.34 | -1.39 | -.60 | -.65 | -.62 | -.64 |
| 7 | -2.69 | -2.75 | -1.76 | -1.85 | -1.29 | -1.48 | -1.33 | -1.40 | -.41 | -.60 | -.58 | -.64 |
| 8 | -2.74 | -2.81 | -1.83 | -1.90 | -1.29 | -1.33 | -1.25 | -1.33 | -.23 | -.43 | -.56 | -.64 |
| 9 | -2.72 | -2.82 | -1.84 | -1.90 | -1.17 | -1.37 | -1.32 | -1.42 | -.43 | -.55 | -.54 | -.82 |
| 10 | -2.82 | -2.90 | -1.78 | -1.88 | -1.17 | -1.25 | -1.38 | -1.48 | -.50 | -.59 | -.74 | -.87 |
| 11 | -2.89 | -2.98 | -1.80 | -1.95 | -1.22 | -1.31 | -1.42 | -1.53 | at .41 | -.55 | -.73 | -1.07 |
| 12 | -2.96 | -3.00 | -1.89 | -2.00 | -1.26 | -1.40 | -1.48 | -1.58 | at .37 | at .20 | -.95 | -1.10 |
| 13 | -2.97 | -3.05 | -1.45 | -2.02 | -1.34 | -1.49 | -1.52 | -1.61 | at .24 | at .15 | -.95 | -1.31 |
| 14 | -2.99 | -3.05 | -.99 | -1.45 | -1.43 | -1.56 | -1.55 | -1.63 | at .17 | at .09 | -1.12 | -1.23 |
| 15 | -2.99 | -3.10 | -.85 | -.99 | -1.51 | -1.64 | -.76 | -1.63 | at .16 | at .06 | -1.12 | -1.49 |
| 16 | -3.06 | -3.15 | -.91 | -.98 | -1.35 | -1.64 | -.59 | -.76 | at .03 | -.05 | -1.26 | -1.45 |
| 17 | -2.67 | -3.15 | -.86 | -1.02 | -1.37 | -1.54 | -.65 | -.68 | -.04 | -.12 | -1.20 | -1.27 |
| 18 | -2.38 | -2.67 | -.85 | -.93 | -1.11 | -1.37 | -.68 | -.80 | at .17 | -.12 | -1.14 | -1.20 |
| 19 | -1.89 | -2.43 | -.80 | -.93 | -1.08 | -1.20 | -.80 | -.88 | at .13 | -.05 | -1.08 | -1.14 |
| 20 | -1.82 | -1.89 | -.72 | -.91 | -1.20 | -1.26 | -.86 | -.90 | -.05 | -.14 | -1.05 | -1.20 |
| 21 | -1.87 | -1.95 | -.67 | -.80 | -1.26 | -1.33 | -.90 | -.92 | .00 | -.14 | -1.20 | -1.33 |
| 22 | -1.95 | -2.07 | -.70 | -.78 | -1.32 | -1.37 | -.92 | -1.02 | at .03 | -.09 | -1.10 | -1.23 |
| 23 | -2.07 | -2.21 | -.77 | -.83 | -.44 | -1.37 | -.88 | -1.02 | -.07 | -.17 | -1.03 | -1.13 |
| 24 | -2.21 | -2.30 | -.83 | -.91 | -.45 | -.63 | -.78 | -.88 | -.13 | -.22 | -.97 | -1.06 |
| 25 | -2.28 | -2.37 | -.91 | -.97 | -.65 | -.80 | -.83 | -.93 | -.20 | -.32 | -.90 | -1.03 |
| 26 | -1.90 | -2.35 | -.87 | -1.12 | -.78 | -.89 | -.92 | -1.05 | -.18 | -.35 | -.85 | -.95 |
| 27 | -1.84 | -1.90 | -.85 | -.95 | -.85 | -.95 | -.97 | -1.06 | -.25 | -.40 | -.82 | -.92 |
| 28 | -1.83 | -1.93 | -.95 | -1.13 | -.92 | -.98 | -1.02 | -1.10 | -.35 | -.48 | -.78 | -.88 |
| 29 | -1.75 | -2.00 | -.95 | -1.11 | -.96 | -1.11 | -1.04 | -1.15 | -.43 | -.50 | -.77 | -.84 |
| 30 | -1.65 | -1.75 | -1.07 | -1.20 | -1.05 | -1.18 | -1.10 | -1.21 | -.46 | -.55 | -.74 | -.80 |
| 31 | -1.69 | -1.80 | -1.16 | -1.27 | | | -1.15 | -1.26 | | | -.72 | -.76 |

a Record probably low owing to slight flow through curb around well.

36. Brooks-Scanlon. At Foley, behind commissary, in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec, 9, T. 5 S., R. 8 E. Unused drilled test well, diameter 6 inches, depth unknown. Measuring point, top of 6-inch coupling, 2.30 feet above land-surface datum. Automatic water-stage recorder installed July 3, 1947.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | November | | December | |
|-----|-------|-------|--------|------|-----------|------|---------|------|----------|------|----------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | .... | .... | 9.55 | 9.59 | 8.40 | 8.43 | 8.06 | 8.12 | 7.89 | 8.06 | 5.60 | 5.69 |
| 2 | .... | .... | 9.59 | 9.62 | 8.43 | 8.52 | 8.12 | 8.18 | 7.58 | 7.89 | 5.69 | 5.72 |
| 3 | .... | .... | 9.62 | 9.63 | 8.50 | 8.55 | 8.17 | 8.20 | 7.39 | 7.58 | 5.72 | 5.78 |
| 4 | 9.91 | 9.92 | 9.63 | 9.71 | 8.53 | 8.60 | 8.20 | 8.25 | 7.25 | 7.39 | 5.78 | 5.90 |
| 5 | 9.92 | 9.98 | 9.66 | 9.70 | 8.60 | 8.63 | 8.25 | 8.27 | 7.17 | 7.25 | 5.90 | 5.98 |
| 6 | 9.98 | 10.04 | 9.70 | 9.72 | 8.63 | 8.72 | 8.28 | 8.37 | 7.12 | 7.17 | 5.98 | 6.03 |
| 7 | 10.04 | 10.10 | 9.72 | 9.72 | 8.72 | 8.73 | 8.36 | 8.40 | 7.10 | 7.12 | 6.03 | 6.06 |

36--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | November | | December | |
|-----|-------|-------|--------|------|-----------|------|---------|------|----------|------|----------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 8 | 10.10 | 10.16 | 9.72 | 9.73 | 8.73 | 8.77 | 8.40 | 8.47 | 7.00 | 7.10 | 6.06 | 6.08 |
| 9 | 10.16 | 10.23 | 9.73 | 9.76 | 8.78 | 8.81 | 8.47 | 8.52 | 6.97 | 7.00 | 6.08 | 6.10 |
| 10 | 10.23 | 10.30 | 9.76 | 9.76 | 8.81 | 8.86 | 8.52 | 8.58 | 6.92 | 6.97 | 6.05 | 6.07 |
| 11 | 10.28 | 10.38 | 9.76 | 9.81 | 8.86 | 8.88 | 8.58 | 8.60 | 5.96 | 6.92 | 6.00 | 6.08 |
| 12 | 10.38 | 10.42 | 9.80 | 9.81 | 8.88 | 8.93 | 8.60 | 8.65 | 5.40 | 5.96 | 5.90 | 6.00 |
| 13 | 10.42 | 10.46 | 9.80 | 9.82 | 8.93 | 8.96 | 8.65 | 8.73 | 5.30 | 5.40 | 5.67 | 5.90 |
| 14 | 10.46 | 10.51 | 9.61 | 9.80 | 8.96 | 9.00 | 8.69 | 8.76 | 5.37 | 5.40 | 5.47 | 5.67 |
| 15 | 10.51 | 10.53 | 9.35 | 9.61 | 9.00 | 9.04 | 8.62 | 8.76 | 5.36 | 5.37 | 5.22 | 5.48 |
| 16 | 10.53 | 10.57 | 9.16 | 9.35 | 9.04 | 9.10 | 8.25 | 8.62 | 5.36 | 5.37 | 5.10 | 5.22 |
| 17 | 10.57 | 10.58 | 8.92 | 9.16 | 9.10 | 9.11 | 8.06 | 8.25 | 5.37 | 5.44 | 5.05 | 5.10 |
| 18 | 10.40 | 10.58 | 8.88 | 8.99 | 9.11 | 9.11 | 7.92 | 8.06 | 5.40 | 5.46 | 5.03 | 5.05 |
| 19 | 10.17 | 10.40 | 8.83 | 8.88 | 9.10 | 9.11 | 7.82 | 7.92 | 5.40 | 5.40 | 5.03 | 5.08 |
| 20 | 10.00 | 10.20 | 8.78 | 8.83 | 9.08 | 9.10 | 7.80 | 7.82 | 5.40 | 5.41 | 5.08 | 5.11 |
| 21 | 9.83 | 10.00 | 8.70 | 8.78 | 9.07 | 9.08 | 7.80 | 7.81 | 5.40 | 5.42 | 5.04 | 5.11 |
| 22 | 9.72 | 9.83 | 8.62 | 8.70 | 9.05 | 9.07 | 7.81 | 7.82 | 5.30 | 5.40 | 5.03 | 5.04 |
| 23 | 9.67 | 9.73 | 8.55 | 8.62 | 8.82 | 9.05 | 7.81 | 7.83 | 5.30 | 5.31 | 5.03 | 5.07 |
| 24 | 9.62 | 9.67 | 8.50 | 8.55 | 8.57 | 8.82 | 7.82 | 7.83 | 5.31 | 5.32 | 5.07 | 5.12 |
| 25 | 9.60 | 9.62 | 8.46 | 8.50 | 8.20 | 8.37 | 7.87 | 7.82 | 5.32 | 5.38 | 5.12 | 5.19 |
| 26 | 9.60 | 9.61 | 8.42 | 8.46 | 8.07 | 8.20 | 7.82 | 7.82 | 5.37 | 5.39 | 5.20 | 5.23 |
| 27 | 9.57 | 9.60 | 8.39 | 8.42 | 8.05 | 8.07 | 7.82 | 7.90 | 5.39 | 5.45 | 5.23 | 5.30 |
| 28 | 9.54 | 9.57 | 8.38 | 8.39 | 8.03 | 8.05 | 7.90 | 7.92 | 5.45 | 5.52 | 5.30 | 5.39 |
| 29 | 9.54 | 9.55 | 8.37 | 8.38 | 8.01 | 8.03 | 7.92 | 7.97 | 5.52 | 5.58 | 5.39 | 5.42 |
| 30 | 9.53 | 9.56 | 8.37 | 8.38 | 8.02 | 8.06 | 7.97 | 8.01 | 5.58 | 5.60 | 5.42 | 5.51 |
| 31 | 9.53 | 9.55 | 8.38 | 8.40 | | | 8.01 | 8.06 | | | 5.51 | 5.56 |

Volusia County

23. City of Daytona Beach. Daytona Beach, on west side of Halifax River, east side of Beach Street, on projection of Live Oak Avenue. Unused drilled domestic well, diameter 4 inches, depth 190 feet, cased to 84 feet. Measuring point, concrete base of water trough, 1.1 feet above land-surface datum and 12 feet above mean sea level. Water levels, in feet above land-surface datum, 1947: Oct. 9, 1.80; Nov. 19, 1.92.

Wakulla County

2 (*1072, p. 96). O. P. Shields. At St. Marks, about 75 feet north of Shields' Restaurant. Water levels, in feet below land-surface datum, 1947: Apr. 15, 1.72; July 28, 1.62; Sept. 5, 1.75; Oct. 31, 1.20.

11 (*1072, p. 96). U. S. Dept. of Agriculture. 3 miles southwest of Panacea, at fire tower, on Ochlocknee Bay. Water levels, in feet below land-surface datum, 1947: Apr. 15, 7.42; July 28, 7.44; Sept. 5, 8.03; Oct. 31, 7.22.

Walton County

10. Town of Freeport. At Freeport, near SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 1 N., R. 19 W. Unused drilled public-supply well, diameter 6 inches, depth 183 feet, cased to 180 feet. Measuring point, top of 6-inch tee, 1.5 feet above land-surface datum and 31.5 feet above mean sea level. Water levels, in feet above land-surface datum, 1947: July 30, 12.5; Sept. 3, 12.3; Oct. 30, 9.0.

13 (*1072, p. 96). O. H. Saltsman. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, T. 1 S., R. 19 W., at Point Washington, 10 feet south of pump house. Measuring point, beginning Oct. 30, 1947, top of 8-inch cross, 2.0 feet above land-surface datum and 7.75 feet above mean sea level. Water levels, in feet above land-surface datum, 1947: Apr. 18, 20.6; July 30, 19.1; Sept. 3, 20.8; Oct. 30, 14.2.

14 (*1072, p. 96). Walton County. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, T. 1 S., R. 19 W., at former schoolhouse in Point Washington. Water levels, in feet above land-surface datum, 1947: Apr. 18, 9.5; July 30, 15.5; Sept. 3, 15.0; Oct. 30, 10.8.

17. Citizens Oil Co. East of Freeport, on the northern tip of LaGrange Bayou, in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, T. 1 N., R. 19 W. Used drilled industrial well, diameter 8 inches, depth 187 feet. Measuring point, top of 8-inch tee, 3.50 feet above land-surface datum. Water levels, in feet above land-surface datum, 1947: Sept. 3, 35.0; Oct. 30, 31.2.

19. U. S. Army. At Eglin auxiliary field 1, in Building 1204, on corner of Avenue A and First Street, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16, T. 2 N., R. 21 W. Used drilled public-supply well, diameter 10 inches, depth 630 feet, cased to 323 feet. Measuring point, top of $\frac{1}{4}$ -inch tee, 1.10 feet above land-surface datum. Water level, in feet below land-surface datum, 1947: Oct. 29, 128.6.

Washington County

4 (*1072, p. 96). Town of Carryville. SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 2, T. 4 N., R. 16 W., 50 feet north of Louisville & Nashville Railroad, in pump house. Water levels, in feet below land-surface datum, 1947: Apr. 17, 7.80; July 31, 12.73; Sept. 2, 12.40; Oct. 27, 13.33.

5 (*1072, p. 96). Town of Vernon. NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 35, T. 3 N., R. 15 W., at Vernon, in pump house under water tank. Water levels, in feet below land-surface datum, 1947: Apr. 17, 11.38; July 30, 15.15; Sept. 4, 15.42.

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 1947. Since 1938, when the program embraced wells in only three counties--Chatham, Dougherty, and Glynn--the observation-well program has been steadily expanded until, in 1943, it included 231 wells in 29 counties, of which 7 counties are in the northern part of the State. From 1943 to the close of 1947 the observation-well program has been maintained on virtually the same level as in 1943, although some wells have necessarily been discontinued due to natural causes--failure of well through caving, general depreciation of well fixtures, etc. In 1947 automatic water-stage recorders were maintained on four wells during the entire year and on two wells for part of the year. In all, 686 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. They 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 been discontinued, the program in 1947 including 42 wells, which are divided among the counties as follows: Clayton, 5; Cobb, 16; DeKalb, 6; Fulton, 13; Henry, 1; Spalding, 1. The city of Atlanta and its environs occupy parts of four of these counties.

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, 1947

| County | Number of wells at end of 1947 | Tape measurements and pressure readings | Number of wells with water-stage recorders throughout 1947 | Number of wells with water-stage recorders for part of 1947 |
|------------|--------------------------------|---|--|---|
| Appling | 1 | 3 | 0 | 0 |
| Baker | 7 | 209 | 0 | 0 |
| Brantley | 2 | 2 | 0 | 0 |
| Bryan | 25 | 42 | 0 | 0 |
| Camden | 16 | 27 | 0 | 0 |
| Charlton | 1 | 3 | 0 | 0 |
| Chatham | 58 | 145 | 1 | 2 |
| Clayton | 5 | 9 | 0 | 0 |
| Cobb | 16 | 23 | 0 | 0 |
| Coffee | 1 | 0 | 0 | 0 |
| DeKalb | 6 | 12 | 0 | 0 |
| Dougherty | 1 | 0 | 0 | 0 |
| Early | 3 | 58 | 0 | 0 |
| Effingham | 5 | 5 | 0 | 0 |
| Evans | 1 | 5 | 0 | 0 |
| Fulton | 13 | 14 | 1 | 0 |
| Glynn | 14 | 27 | 1 | 0 |
| Henry | 1 | 12 | 0 | 0 |
| Liberty | 14 | 38 | 0 | 0 |
| Long | 1 | 2 | 0 | 0 |
| McIntosh | 15 | 33 | 0 | 0 |
| Mitchell | 1 | 0 | 0 | 0 |
| Montgomery | 1 | 0 | 0 | 0 |
| Pierce | 2 | 6 | 0 | 0 |
| Screven | 2 | 1 | 0 | 0 |
| Spalding | 1 | 0 | 1 | 0 |
| Ware | 1 | 0 | 0 | 0 |
| Wayne | 4 | 10 | 0 | 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 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 as a unit, is the principal artesian aquifer 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 fluctuations 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 from season to season with the precipitation. The water table, therefore, stands highest with respect to the land surface during the months of April and May, when the precipitation is generally greatest, and lowest in December and January, when precipitation is usually 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, DeKalb County well 40, which is near a small perennial surface stream, showed a total fluctuation in water level of only 0.23 foot, whereas in well 39, in the same county, which is not near a surface stream, the fluctuation for the year was 0.64 foot. Again, in Cobb County well 83, which is in a broad valley, the fluctuation for the year was only 0.97 foot, whereas in the same county in well 85, which is on top of a high hill, the total fluctuation for the year amounted to 6.53 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 do drilled wells.

In the Coastal Plain of Georgia, water levels in wells ending in the principal limestone aquifer, with the exception of Chatham, Bryan, and Liberty Counties, were slightly higher as compared with those recorded during 1946. In the Savannah area, which includes the industrial area northeast of the city proper, artesian-water levels averaged about 3 feet lower during 1947 as compared with 1946. This condition is believed to be

a direct result of increased pumpage during 1947 in the area of heaviest pumpage, that is, the industrial area of Savannah. Accordingly, in 1947 the total metered pumpage in the Savannah area, which is the combined pumpage of the Savannah municipal waterworks and the Union Bag and Water Corporation, increased by 81,386,516 gallons over that of 1946. The artesian-water levels in Chatham County as a whole, excluding the industrial area, showed an average decline of 0.68 foot. In Wilmington and Tybee Islands the average decline during 1947 amounted to 0.5 foot. In the southern part of Chatham County water levels showed an average decline of 0.9 foot. In the northern part of the county, as far north as the county line, the average decline in water levels was 1.24 feet, while in the western part of the county the water levels declined 0.5 foot as compared with 1946.

In Bryan County all year-end water levels averaged 0.56 foot lower in 1947 as compared with 1946, this decline ranging from 0.14 to 0.98 foot lower in 1947. Average year-end water levels in Liberty County were somewhat lower than those recorded during 1946, the average decline being 0.23 foot. The decline in December water levels in Liberty County ranged between 0.12 foot and 1.01 feet. In McIntosh County water levels during 1947 were practically the same as in 1946, the year-end decline during 1947 amounting to 0.06 foot as compared with 1946. Year-end water levels in Glynn County increased in 1947 as compared with those in December 1946. These increases ranged from 0.10 to 0.19 foot. Water levels increased in the Brunswick area also, this condition prevailing in spite of an increase in total pumpage. Accordingly, the total metered pumpage in Brunswick, which is the combined pumpage of the Peoples Water Service Company (Brunswick municipal waterworks) and the Brunswick Pulp and Paper Company, increased by 127,750,270 gallons during 1947 as compared with 1946. All year-end water levels in Camden County, including the St. Marys area, showed increases in 1947 as compared with 1946, and these increases existed in spite of increased pumpage during 1947 by the St. Marys Kraft Corporation. The St. Marys Kraft Corporation increased its total pumpage by 405,000,000 gallons in 1947 as compared with 1946. Compared with year-end water levels in 1946, those recorded in 1947 showed a range from 0.70 foot to 4.0 feet

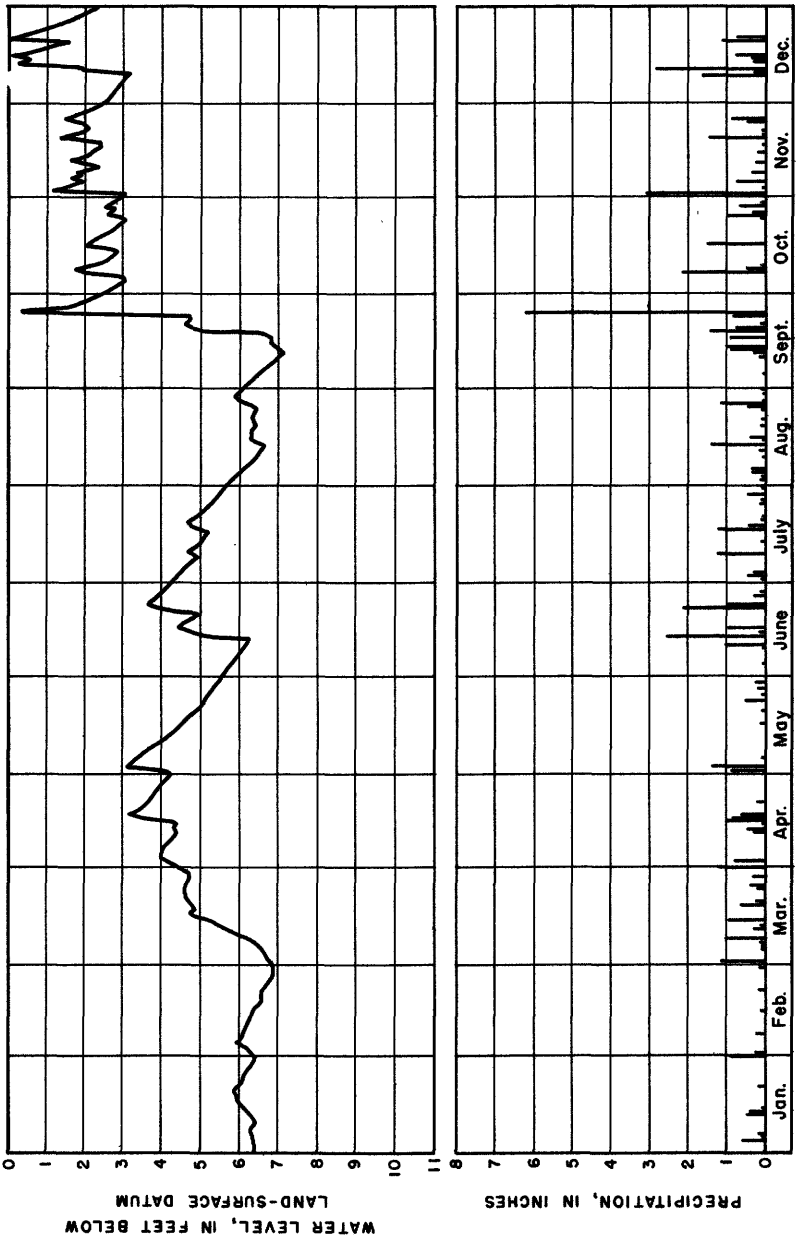


Figure 6.--Graphs showing fluctuations of water level in well 343, Chatham County, Georgia, and precipitation at Barbour Lathrop Plant Introduction Station in 1947.

higher in Camden County. In Brantley, Charlton, Pierce, and Wayne Counties year-end water levels ranged from 0.19 foot to 2.30 feet higher in 1947 as compared with 1946.

The decrease in water levels in the Savannah area is attributed to increased pumpage during 1947 as compared with 1946. The slight decrease in water levels in Bryan, Liberty, and McIntosh Counties as well as the increase in water levels in the remainder of Coastal Georgia, during 1947, are thought to be due to natural causes.

Chatham County well 343 is at the U. S. Plant Introduction Station, 12 miles southeast of Savannah. This is a dug well, 14.5 feet in depth, and shows the effect of precipitation (see fig. 6). Accordingly, the year-end water level recorded in this well was 4 feet higher on December 31, 1947, than on December 31, 1946. This is thought to be due to increased precipitation in 1947--23.72 inches more--as compared with 1946.

In North Georgia all wells reflect water-table conditions and consequently, also reflect the effect of precipitation. Except for Cobb and DeKalb Counties, year-end water levels in North Georgia were uniformly higher. In Clayton County year-end water levels averaged 2.93 feet higher, while in Fulton County, water levels averaged 1.13 feet higher in December 1947 as compared with 1946. On the other hand, most year-end water levels in Cobb and DeKalb Counties were lower in 1947 as compared with those recorded in December 1946. Local distribution of rainfall is thought to account for the conditions as outlined, even though regional precipitation for this part of Georgia was higher during 1947 as compared with 1946.

Spalding County well 12 is at the Georgia State Experiment Station, Experiment. This is a dug well, 30.5 feet in depth, and shows the effect of precipitation. Accordingly, the year-end water level recorded on this well was 5.94 feet higher on December 31, 1947, than on December 31, 1946. This is thought to be due to increased precipitation in 1947--16.46 inches more--as compared with 1946. This area received an increase in precipitation amounting to 16.46 inches in 1947 as compared with 1946.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Appling County

3 (*945, p. 55; *987, p. 50; 1017, p. 176; 1024, p. 86; 1072, p. 102). 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, 1947: Feb. 11, 128.55; June 27, 130.9; Aug. 29, 131.02.

Baker County

1 (*937, p. 33; 945, p. 55; *987, p. 50; 1017, p. 176; 1024, p. 86; 1072, p. 103). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|----------|-------------|
| Jan. 9 | 1.61 | Apr. 3 | 0.19 | July 18 | 4.56 | Sept. 11 | 6.79 |
| Feb. 6 | .52 | May 2 | .92 | Aug. 14 | 5.42 | Oct. 9 | 8.01 |
| Mar. 7 | a .22 | June 5 | 1.94 | | | | |

a Above land-surface datum.

5 (*937, p. 34; 945, p. 56; *987, p. 51; 1017, p. 176; 1024, p. 86; 1072, p. 103). 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, 1947

| | | | | | | | |
|--------|-------|--------|------|---------|------|----------|-------|
| Jan. 8 | 20.05 | Apr. 9 | 4.96 | July 9 | 5.25 | Sept. 24 | 10.95 |
| 15 | 19.99 | 30 | 4.70 | 16 | 6.30 | Oct. 1 | 12.32 |
| 22 | 15.01 | May 7 | 4.29 | 23 | 7.37 | 8 | 13.10 |
| 29 | 13.49 | 14 | 5.29 | 30 | 8.08 | 15 | 14.65 |
| Feb. 5 | 13.73 | 21 | 5.97 | Aug. 6 | 9.04 | 22 | 12.30 |
| 12 | 14.33 | 28 | 4.07 | 13 | 9.95 | 28 | 16.30 |
| 19 | 14.89 | June 4 | 4.50 | 20 | 5.82 | Nov. 4 | 16.89 |
| 26 | 15.66 | 11 | 5.61 | 27 | 5.04 | 12 | 9.76 |
| Mar. 5 | 18.90 | 18 | 6.72 | Sept. 3 | 6.32 | 18 | 5.68 |
| 19 | 3.87 | 25 | 4.54 | 10 | 7.80 | 25 | 2.34 |
| 26 | 4.43 | July 2 | 5.62 | 17 | 9.44 | Dec. 2 | 3.61 |
| Apr. 2 | 4.79 | | | | | | |

9 (*937, p. 35; 945, p. 56; *987, p. 51; 1017, p. 176; 1024, p. 87; 1072, p. 103). Emory University Field Station well 9. Mathew Clis. 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, 1947

| | | | | | | | |
|--------|-------|--------|-------|---------|-------|----------|-------|
| Jan. 9 | 18.83 | Apr. 3 | 8.28 | July 18 | 14.35 | Sept. 11 | 15.47 |
| Feb. 6 | 13.01 | May 2 | 8.70 | Aug. 14 | 16.11 | Oct. 9 | 18.97 |
| Mar. 7 | 13.57 | June 5 | 10.43 | | | | |

12 (*937, p. 36; 945, p. 56; *987, p. 51; 1017, p. 177; 1024, p. 87; 1072, p. 103). 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, 1947

| | | | | | | | |
|--------|-------|---------|-------|--------|------|--------|-------|
| Jan. 8 | 16.71 | Feb. 19 | 16.65 | Apr. 2 | 8.34 | May 14 | 9.20 |
| 15 | 16.78 | 26 | 16.63 | 9 | 8.51 | 21 | 9.70 |
| 22 | 17.18 | Mar. 5 | 16.56 | 16 | 8.72 | 28 | 10.30 |
| 29 | 17.19 | 12 | 11.09 | 23 | 7.17 | June 4 | 9.92 |
| Feb. 5 | 16.87 | 19 | 8.51 | 30 | 7.82 | 11 | 10.19 |
| 12 | 16.75 | 26 | 8.20 | May 7 | 8.54 | 18 | 10.64 |

12--Continued.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|--------|-------------|
| June 25 | 11.05 | July 30 | 12.46 | Sept. 3 | 14.66 | Oct. 1 | 16.63 |
| July 2 | 11.32 | Aug. 6 | 12.93 | 10 | 15.19 | 8 | 17.15 |
| 9 | 11.61 | 13 | 13.30 | 17 | 15.65 | 15 | 17.77 |
| 16 | 11.93 | 20 | 13.74 | 24 | 15.77 | 22 | 18.40 |
| 23 | 12.20 | 27 | 14.20 | | | | |

15 (*937, p. 36; 945, p. 57; *987, p. 51; 1017, p. 177; 1024, p. 87 ; 1072, p. 103). 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.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|--------|-------|--------|------|---------|-------|----------|-------|
| Jan. 9 | 12.95 | Apr. 3 | 0.49 | July 18 | 8.20 | Sept. 11 | 11.12 |
| Feb. 6 | 7.32 | May 2 | .34 | Aug. 14 | 10.12 | Oct. 9 | 12.58 |
| Mar. 7 | 6.64 | June 5 | 4.00 | | | | |

25 (*937, p. 37; 945, p. 57; *987, p. 52; 1017, p. 177; 1024, p. 87 ; 1072, p. 104). 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, 1947

| | | | | | | | |
|--------|-------|--------|------|---------|-------|---------|-------|
| Jan. 8 | 15.79 | Apr. 9 | 6.50 | July 9 | 4.72 | Oct. 16 | 11.37 |
| 15 | 10.84 | 16 | 3.54 | 16 | 6.06 | 22 | 11.78 |
| 22 | 10.74 | 23 | 4.54 | 23 | 6.95 | 28 | 12.17 |
| 29 | 12.04 | 30 | 5.98 | 30 | 7.50 | Nov. 4 | 12.52 |
| Feb. 5 | 12.77 | May 7 | 7.13 | Aug. 6 | 8.08 | 11 | 11.48 |
| 12 | 13.36 | 14 | 7.90 | 13 | 8.23 | 18 | 7.03 |
| 19 | 13.86 | 21 | 8.42 | 20 | 8.09 | 25 | 3.33 |
| 26 | 14.37 | 28 | 5.80 | 27 | 7.46 | Dec. 2 | 4.58 |
| Mar. 5 | 14.23 | June 4 | 5.36 | Sept. 3 | 8.23 | 9 | 5.74 |
| 12 | 3.18 | 11 | 6.68 | 10 | 9.01 | 17 | 2.07 |
| 19 | 3.58 | 18 | 7.64 | 17 | 9.66 | 23 | 3.04 |
| 26 | 4.73 | 25 | 4.59 | 24 | 10.14 | 30 | 4.01 |
| Apr. 2 | 5.90 | July 2 | 5.30 | Oct. 1 | 11.05 | | |

29 (*937, p. 38; 945, p. 58; *987, p. 52; 1017, p. 177; 1024, p. 87 ; 1072, p. 104). 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, 1947

| | | | | | | | |
|--------|-------|---------|------|--------|------|--------|-------|
| Jan. 8 | (a) | Mar. 12 | 1.46 | May 7 | 3.30 | July 2 | 3.85 |
| 15 | 5.43 | 19 | .43 | 14 | 4.52 | 9 | 6.23 |
| 22 | 6.35 | 26 | 1.71 | 21 | 6.04 | 16 | 7.31 |
| 29 | 7.94 | Apr. 2 | 1.53 | 28 | 6.27 | 23 | 9.56 |
| Feb. 5 | 5.71 | 9 | 2.80 | June 4 | 4.98 | 30 | 11.82 |
| 12 | 7.82 | 16 | 1.01 | 11 | 6.89 | Aug. 6 | 12.85 |
| 19 | 9.29 | 23 | 1.90 | 18 | 8.84 | 13 | 12.90 |
| 26 | 10.79 | May 1 | 2.89 | 25 | 2.90 | 20 | (a) |
| Mar. 5 | 9.18 | | | | | | |

a Dry.

Brantley County

1 (*937, p. 39; 945, p. 58; *987, p. 52; 1017, p. 178; 1024, p. 88 ; 1072, p. 104). N. S. McVeigh. At Waynesville, on north side State Highway 50. No measurements made in 1947.

9 (*945, p. 58; *987, p. 52; 1017, p. 178; 1024, p. 88; 1072, p. 104). 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, 1947: Feb. 12, 2.83; Dec. 8, 1.04.

Bryan County

41 (*886, p. 69; 907, p. 39; *937, p. 39; 945, p. 58; *987, p. 53; 1017, p. 178; 1024, p. 88 ; 1072, p. 104). U. S. War Department. At Roding. Measurements discontinued.

43 (*945, p. 58; *987, p. 53; 1017, p. 178; 1024, p. 88 ; 1072, p. 105). U. S. War Department. At Roding, 0.5 mile west of State Highway 144. Measurements discontinued.

50 (*945, p. 58; *987, p. 53; 1017, p. 178; 1024, p. 88 ; 1072, p. 105). U. S. War Department. At Clyde, about 100 feet southwest of intersection of State Highway 63 with county road. No measurements made in 1947.

51 (*886, p. 71; 907, p. 39; 937, p. 39; 945, p. 59; *987, p. 53; 1017, p. 178; 1024, p. 88 ; 1072, p. 105). U. S. War Department. At Clyde, about 600 feet southwest of former site of schoolhouse. No measurements made in 1947.

52 (*886, p. 71; 907, p. 39; *937, p. 39; 945, p. 59; *987, p. 53; 1017, p. 178; 1024, p. 88; 1072, p. 105). U. S. War Department. At Clyde, a short distance northeast of former site of schoolhouse. Water levels, in feet above land-surface datum, 1947: Mar. 5, 6.03; Aug. 26, 5.59; Dec. 9, 5.42.

55 (*945, p. 59; *987, p. 53; 1017, p. 178; 1024, p. 88 ; 1072, p. 105). 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, 1947: Mar. 5, 1.36; Aug. 26, 2.15; Dec. 9, 2.24.

63 (*907, p. 39; *937, p. 39; 945, p. 59; *987, p. 53; 1017, p. 178; 1024, p. 88 ; 1072, p. 105). 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 1947.

71 (*907, p. 39; *937, p. 39; 945, p. 59; *987, p. 53; 1017, p. 178; 1024, p. 88 ; 1072, p. 105). U. S. War Department. On south side of River Road, 5.5 miles west of State Highway 63. No measurements made in 1947.

85 (*937, p. 39; 945, p. 59; *987, p. 53; 1017, p. 178; 1024, p. 89; 1072, p. 105). Henry Ford. About 0.1 mile southwest of Belfast road, about 150 feet southeast of Seaboard Air Line Railway. Water level, in feet above land-surface datum, 1947: Mar. 5, 6.24.

87 (*886, p. 71; 907, p. 39; *937, p. 40; 945, p. 59; *987, p. 53; 1017, p. 178; 1024, p. 89 ; 1072, p. 105). Henry Ford. At Richmond Hill, about 500 feet west of intersection of Highway 17 and Bryan Neck road. Water levels, in feet above land-surface datum, 1947: Mar. 5, 0.96; Aug. 26, 0.48; Dec. 18, 0.78.

87a (*945, p. 59; *987, p. 54; 1017, p. 178; 1024, p. 89 ; 1072, p. 105). Henry Ford. At Richmond Hill, about 500 feet west of intersection of U. S. Highway 17, and Bryan Neck road. Water levels, in feet below land-surface datum, 1947: Mar. 5, 0.06; June 25, 0.22; Aug. 26, 0.38; Dec. 18, 0.14.

96 (*907, p. 39; *937, p. 40; 945, p. 59; *987, p. 54; 1017, p. 178; 1024, p. 89; 1072, p. 105). 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, 1947: Mar. 5, 8.56; June 25, 8.47; Dec. 18, 8.11.

112 (*907, p. 39; *937, p. 40; 945, p. 60; *987, p. 54; 1017, p. 178; 1024, p. 89; 1072, p. 105). U. S. War Department. 12 miles west along River Road from State Highway 63, on south side of road. No measurements made in 1947.

119 (*907, p. 39; *937, p. 40; 945, p. 60; *987, p. 54; 1017, p. 179; 1024, p. 89; 1072, p. 105). Henry Ford. At Kilkenny, about 4.5 miles southeast of Keller. Water level affected by tide. Water level, in feet above land-surface datum, 1947: Mar. 5, 7.78.

143 (*937, p. 40; 945, p. 60; *987, p. 54; 1017, p. 179; 1024, p. 89; 1072, p. 105). A. M. Casin. Near west end of Morgan Bridge over Ogeechee River on Pine Barren Road, on north side of road. Measurements discontinued.

144 (*987, p. 54; 1017, p. 179; 1024, p. 89; 1072, p. 106). U. Butler. At Eldora about 200 feet east of county road on north side of two-story brick store. Water levels, in feet below land-surface datum, 1947: Mar. 4, 20.5; Dec. 18, 20.95.

145 (*987, p. 54; 1017, p. 179; 1024, p. 89; 1072, p. 106). 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 1947.

146 (*937, p. 40; 945, p. 60; *987, p. 54; 1017, p. 179; 1024, p. 89; 1072, p. 106). 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, 1947: Mar. 4, 21.25; Sept. 25, 21.43; Dec. 16, 21.24.

148 (*937, p. 40; 945, p. 60; *987, p. 54; 1017, p. 179; 1024, p. 89; 1072, p. 106). 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, 1947: Mar. 5, 5.88; June 25, 5.76; Aug. 26, 5.49; Dec. 18, 5.49.

149 (*937, p. 40; 945, p. 60; *987, p. 54; 1017, p. 179; 1024, p. 89; 1072, p. 106). Henry Ford. About 5.5 miles southeast of Richmond Hill, at the Jack Griswold Place. Water levels, in feet above land-surface datum, 1947: Mar. 5, 4.19; June 25, 3.99; Aug. 26, 3.73.

150 (*945, p. 60; *987, p. 54; 1017, p. 179; 1024, p. 89; 1072, p. 106). 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, 1947: Mar. 5, 10.63; June 25, 10.22; Aug. 26, 9.80; Dec.-9, 9.54.

151 (*945, p. 60; *987, p. 55; 1017, p. 179; 1024, p. 89; 1072, p. 106). Henry Ford. About 0.9 mile west of Keller, west bluff of Tivoli River, north side Belfast road. Water levels, in feet above land-surface datum, 1947: Mar. 5, 6.96; June 25, 6.75; Aug. 26, 6.55; Dec. 18, 6.48.

161 (*945, p. 60; *987, p. 55; 1017, p. 179; 1024, p. 90; 1072, p. 106). Henry Ford. At Kilkenny, about 4.5 miles southeast of Keller, about 300 feet north of clubhouse near edge of marsh at oyster house. Water level affected by tide. Water level, in feet above land-surface datum, 1947: Mar. 5, 11.49.

162 (*987, p. 55; 1017, p. 179; 1024, p. 90 ; 1072, p. 106). Henry Ford. About 7.5 miles southeast of Richmond Hill, about 0.1 mile west of Fort McAllister, on south bank of Ogeechee River. Measurements discontinued.

171 (*987, p. 55; 1017, p. 179; 1024, p. 90 ; 1072, p. 106). Deal Purvis. At Belfast, about 110 feet east of bluff, near center of nearly right-angled bend in Belfast River. Water level affected by tide. Water levels, in feet above land-surface datum, 1947: Mar. 5, 8.03; June 25, 7.70; Aug. 26, 7.62; Dec. 18, 7.71.

Camden County

3 (Well 20 in *886, p. 70; 907, p. 40; *937, p. 40; 945, p. 60; *987, p. 55; 1017, p. 179; 1024, p. 90 ; 1072, p. 106). Town of St. Marys. On east side of State Highway 40, 0.25 mile north of Riverview Hotel, St. Marys. No measurements made in 1947.

8 (*886, p. 71; 907, p. 40; *937, p. 41; 945, p. 60; *987, p. 55; 1017, p. 179; 1024, p. 90 ; 1072, p. 106). M. L. Hill. In Kingsland, at owner's residence. Water levels, in feet above land-surface datum, 1947: Mar. 7, 23.13; June 26, 23.46; Aug. 28, 22.65; Dec. 7, 25.13.

12 (*907, p. 40; *937, p. 41; 945, p. 60; *987, p. 55; 1017, p. 179; 1024, p. 90 ; 1072, p. 106). 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, 1947: Mar. 7, 22.39; June 26, 23.33; Aug. 28, 22.34; Dec. 7, 25.48.

18 (*886, p. 71; 907, p. 40; *937, p. 41; 945, p. 61; *987, p. 56; 1017, p. 180; 1024, p. 90 ; 1072, p. 107). L. O. Harris. At St. Marys, about 0.8 mile north of Riverview Hotel, on east side State Highway 40. No measurements made in 1947.

19 (*886, p. 71; 907, p. 40; *937, p. 41; 945, p. 61; *987, p. 56; 1017, p. 180; 1024, p. 90 ; 1072, p. 107). Camden Training School. At St. Marys, 1 mile north of Riverview Hotel, on east side of State Highway 40. Water levels, in feet above land-surface datum, 1947: Mar. 7, 27.81; June 26, 27.98; Aug. 28, 30.97; Dec. 7, 32.94.

39 (*886, p. 72; 907, p. 40; *937, p. 41; 945, p. 61; *987, p. 56; 1017, p. 180; 1024, p. 90 ; 1072, p. 107). 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 1947.

42 (*945, p. 61; *987, p. 56; 1017, p. 180; 1024, p. 90 ; 1072, p. 107). South Camden Turpentine Co. 0.2 mile east of Spring Bluff, on northeast side of road to Dover Bluff. Measurements discontinued.

59 (*937, p. 42; 945, p. 61; *987, p. 56; 1017, p. 180; 1024, p. 90 ; 1072, p. 107). Zack Colson. About 3.5 miles southeast of Woodbine, 0.6 mile south of Satilla River. No measurements made in 1947.

61 (*907, p. 41; *937, p. 42; 945, p. 61; *987, p. 56; 1017, p. 180; 1024, p. 90 ; 1072, p. 107). Camden Properties. Billysville, 2 miles east of Coleburg, west end tenant quarters. Water levels, in feet above land-surface datum, 1947: Mar. 7, 36.18.

66 (*886, p. 72; 907, p. 41; *937, p. 42; 945, p. 61; *987, p. 56; 1017, p. 180; 1024, p. 90 ; 1072, p. 107). Arthur Lucas. At Point Peter, about 2 miles east of St. Marys, at owner's house. Measurements discontinued.

68 (*907, p. 41; *937, p. 42; 945, p. 61; *987, p. 56; 1017, p. 180; 1024, p. 91 ; 1072, p. 107). 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, 1947: Mar. 7, 42.66; Dec. 7, 43.75.

78 (#907, p. 41; #937, p. 42; 945, p. 61; #987, p. 56; 1017, p. 180; 1024, p. 91; 1072, p. 107). White Oak public school. At White Oak, west side Seaboard Air Line Railway, at schoolhouse. No measurements made in 1947.

87 (#937, p. 42; 945, p. 61; #987, p. 56; 1017, p. 180; 1024, p. 91; 1072, p. 107). Camden Properties. At Cabin Bluff, 13 miles southeast of Woodbine, near west bank of Cumberland River. Measurements discontinued.

92a (#937, p. 42; 945, p. 61; #987, p. 56; 1017, p. 180; 1024, p. 91; 1072, p. 107). Camden race track. About 2.2 miles southeast of Kingsland, on north side of St. Marys road at race track. Water levels, in feet above land-surface datum, 1947: Mar. 7, 33.16; June 26, 33.48; Aug. 28, 32.23; Dec. 7, 34.49.

118 (#937, p. 43; 945, p. 61; #987, p. 56; 1017, p. 180; 1024, p. 91; 1072, p. 107). 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, 1947: Mar. 8, 38.93; June 26, 39.39; Aug. 28, 38.27; Dec. 7, 40.87.

144 (#907, p. 41; #937, p. 43; 945, p. 61; #987, p. 57; 1017, p. 180; 1024, p. 91; 1072, p. 107). 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, 1947: Mar. 7, 35.52; June 26, 32.96; Aug. 28, 32.17; Dec. 7, 34.22.

Charlton County

7 (#937, p. 43; 945, p. 62; #987, p. 57; 1017, p. 181; 1024, p. 91; 1072, p. 108). State of Georgia. 1 mile southwest of Folkston, at State convict camp. Water levels, in feet below land-surface datum, 1947: Mar. 8, 13.82; Aug. 28, 14.62; Dec. 7, 12.3.

Chatham County

8 (#845, p. 53; 886, p. 72; 907, p. 41; #937, p. 43; 945, p. 62; #987, p. 57; 1017, p. 181; 1024, p. 91; 1072, p. 108). City of Savannah. On west side of Stiles Avenue, about 600 feet south of Louisville road, Savannah. Water level affected by pumpage in Savannah area.

High and low daily water levels, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 49.20 | 53.10 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 2 | 49.20 | 53.34 | ..... | ..... | 51.35 | 53.70 | 52.35 | 54.21 | ..... | ..... |
| 3 | 50.25 | 54.91 | ..... | ..... | 52.90 | 55.85 | 52.07 | 55.10 | ..... | ..... |
| 4 | 50.56 | 55.23 | 51.15 | 56.01 | 53.52 | 55.51 | 53.25 | 55.75 | 52.56 | 56.36 |
| 5 | ..... | ..... | 55.67 | 59.71 | 52.75 | 55.48 | 54.10 | 56.26 | 53.26 | 54.82 |
| 6 | ..... | ..... | 58.21 | 59.75 | 53.10 | 56.0 | 51.30 | 54.50 | 53.93 | 57.30 |
| 7 | ..... | ..... | 54.90 | 58.35 | 53.17 | 56.05 | 51.28 | 55.60 | 54.50 | 57.85 |
| 8 | 50.96 | 55.55 | 53.31 | 55.80 | 51.60 | 56.85 | 54.31 | 56.60 | 55.35 | 59.76 |
| 9 | 51.85 | 55.45 | 53.30 | 57.10 | 54.11 | 55.60 | 55.26 | 56.90 | 55.08 | 59.59 |
| 10 | 52.04 | 55.96 | 53.99 | 58.39 | 54.25 | 57.42 | 54.85 | 57.30 | 54.54 | 58.49 |
| 11 | 51.81 | 56.62 | ..... | ..... | 55.20 | 57.95 | 54.60 | 57.97 | ..... | ..... |
| 12 | 51.21 | 55.83 | 53.85 | 56.47 | 55.98 | 57.95 | 54.66 | 56.20 | 54.26 | 59.70 |
| 13 | 51.19 | 55.10 | 53.50 | 55.16 | 55.35 | 57.61 | 53.40 | 56.71 | ..... | ..... |
| 14 | 52.02 | 57.50 | 53.70 | 55.21 | 55.35 | 57.85 | ..... | ..... | ..... | ..... |
| 15 | 52.60 | 57.10 | 52.0 | 55.01 | 55.22 | 58.35 | 53.26 | 55.60 | ..... | ..... |
| 16 | 52.73 | 57.03 | 51.57 | 54.86 | ..... | ..... | 52.71 | 56.14 | ..... | ..... |
| 17 | 52.46 | 57.03 | 51.22 | 54.95 | ..... | ..... | 53.35 | 56.28 | ..... | ..... |
| 18 | 52.11 | 57.04 | 51.90 | 54.14 | 52.0 | 54.06 | 54.47 | 56.96 | ..... | ..... |
| 19 | 51.47 | 55.66 | 52.30 | 54.11 | 50.85 | 52.68 | ..... | ..... | ..... | ..... |
| 20 | 51.20 | 55.10 | 52.06 | 54.35 | 51.40 | 53.98 | ..... | ..... | ..... | ..... |
| 21 | 52.11 | 57.02 | 52.46 | 54.80 | 52.35 | 54.42 | ..... | ..... | ..... | ..... |

B--Continued.

High and low daily water levels, in feet
below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 22 | 52.74 | 56.37 | 51.80 | 55.15 | 53.24 | 55.06 | ..... | ..... | ..... | ..... |
| 23 | 52.06 | 56.30 | 52.01 | 54.49 | 51.41 | 53.28 | ..... | ..... | ..... | ..... |
| 24 | 52.14 | 56.32 | 52.23 | 53.95 | 51.04 | 52.91 | ..... | ..... | ..... | ..... |
| 25 | 51.45 | 55.60 | 52.50 | 53.90 | 52.35 | 55.15 | ..... | ..... | ..... | ..... |
| 26 | 50.85 | 55.10 | ..... | ..... | 53.0 | 54.42 | ..... | ..... | 54.85 | 57.45 |
| 27 | 49.50 | 53.78 | ..... | ..... | 53.01 | 54.60 | ..... | ..... | 55.72 | 58.75 |
| 28 | 51.08 | 54.55 | ..... | ..... | 53.01 | 56.10 | 55.12 | 57.18 | 55.22 | 58.32 |
| 29 | ..... | ..... | ..... | ..... | 53.01 | 55.13 | ..... | ..... | 57.15 | 59.58 |
| 30 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 31 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |

High and low daily water levels, in feet
below land-surface datum, 1947
(From recorder charts)

| Day | June | | July | | August | | September | |
|-----|-------|-------|-------|-------|--------|-------|-----------|-------|
| | High | Low | High | Low | High | Low | High | Low |
| 1 | 56.30 | 57.71 | ..... | ..... | 60.0 | 66.21 | ..... | ..... |
| 2 | 55.81 | 59.08 | ..... | ..... | ..... | ..... | ..... | ..... |
| 3 | 55.80 | 60.35 | ..... | ..... | ..... | ..... | ..... | ..... |
| 4 | 56.32 | 62.34 | ..... | ..... | ..... | ..... | ..... | ..... |
| 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 6 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 8 | 57.05 | 60.91 | ..... | ..... | ..... | ..... | ..... | ..... |
| 9 | 56.70 | 64.90 | ..... | ..... | ..... | ..... | ..... | ..... |
| 10 | 57.95 | 64.40 | ..... | ..... | 57.92 | 60.80 | ..... | ..... |
| 11 | 58.75 | 63.75 | ..... | ..... | 57.42 | 63.55 | ..... | ..... |
| 12 | 59.85 | 61.70 | ..... | ..... | 59.55 | 63.70 | ..... | ..... |
| 13 | 58.87 | 63.33 | 65.10 | 67.82 | 58.28 | 60.80 | ..... | ..... |
| 14 | ..... | ..... | 64.67 | 70.22 | 59.76 | 63.41 | ..... | ..... |
| 15 | 59.65 | 62.65 | 65.74 | 70.05 | 59.96 | 63.83 | ..... | ..... |
| 16 | ..... | ..... | 66.90 | 71.30 | ..... | ..... | ..... | ..... |
| 17 | ..... | ..... | 67.81 | 69.60 | ..... | ..... | ..... | ..... |
| 18 | ..... | ..... | 69.60 | 74.27 | ..... | ..... | ..... | ..... |
| 19 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 20 | ..... | ..... | ..... | ..... | ..... | ..... | 59.20 | 61.44 |
| 21 | ..... | ..... | ..... | ..... | ..... | ..... | 58.60 | 62.87 |
| 22 | 59.25 | 62.98 | ..... | ..... | ..... | ..... | ..... | ..... |
| 23 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 24 | 59.20 | 63.10 | ..... | ..... | ..... | ..... | ..... | ..... |
| 25 | ..... | ..... | 59.96 | 64.88 | ..... | ..... | ..... | ..... |
| 26 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 27 | ..... | ..... | ..... | ..... | ..... | ..... | 58.20 | 62.88 |
| 28 | ..... | ..... | ..... | ..... | ..... | ..... | 58.40 | 62.81 |
| 29 | 60.01 | 62.96 | ..... | ..... | ..... | ..... | 58.54 | 63.34 |
| 30 | 60.0 | 65.32 | 60.31 | 62.66 | ..... | ..... | ..... | ..... |
| 31 | ..... | ..... | 59.40 | 65.91 | ..... | ..... | ..... | ..... |

28 (*886, p. 72; 907, p. 42; *937, p. 44; 945, p. 63; *987, p. 58; 1017, p. 181; 1024, p. 92; 1072, p. 108). Reliance Fertilizer Co. About 200 feet south of Louisville road, 2 miles west of West Broad Street, Savannah. No measurements made in 1947.

29 (*907, p. 42; *937, p. 44; 945, p. 63; *987, p. 58; 1017, p. 181; 1024, p. 92; 1072, p. 109). Port Wentworth Corporation. About 300 feet east of U. S. Highway 17, near elevated steel tank, Port Wentworth. No measurements made in 1947.

30 (*845, p. 53; *886, p. 73; 907, p. 42; *937, p. 44; 945, p. 63; *987, p. 58; 1017, p. 182; 1024, p. 92; 1072, p. 109). Dixie Asphalt Corporation. Near west bank of Savannah River, 1 mile northeast of U. S. Highway 17, and 3.4 miles northwest of Savannah city hall.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|
| Mar. 4 | 53.45 | Aug. 25 | 55.71 | Dec. 17 | 60.68 |
| June 24 | 56.17 | Oct. 30 | 60.3 | | |

43 (*907, p. 43; *937, p. 45; 945, p. 63; *987, p. 59; 1017, p. 182; 1024, p. 92; 1072, p. 109). Southern Cotton Oil Co. well 215A. 40 feet north of Lathrop Avenue, 1,200 feet southwest of southwest bank of Savannah River, 1.75 miles northwest of Savannah city hall. Water levels, in feet below land-surface datum, 1947: Mar. 4, 64.2; Aug. 25, 68.2; Oct. 30, 89.43; Dec. 17, 89.34.

46 (*886, p. 73; 907, p. 43; *937, p. 45; 945, p. 63; *987, p. 59; 1017, p. 182; 1024, p. 93; 1072, p. 109). Union Bag & Paper Corporation well 5. About 800 feet southwest of Savannah River, 2.4 miles northwest of Savannah city hall. Well used more or less continuously. Measurements furnished through courtesy of Union Bag & Paper Corporation.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 2 | 115.5 | Mar. 13 | 124.5 | June 1 | 131.5 | Oct. 30 | 141.5 |
| 16 | 134.5 | Apr. 3 | 131.5 | July 31 | 141.5 | Nov. 13 | 141.5 |
| 31 | 122.5 | 17 | 136.5 | Aug. 14 | 141.5 | 27 | 139.5 |
| Feb. 1 | 136.5 | May 15 | 131.5 | 28 | 141.5 | Dec. 18 | 141.5 |
| 27 | 124.5 | 29 | 136.5 | Oct. 16 | 138.5 | | |

47 (*886, p. 73; 907, p. 43; 937, p. 45; 945, p. 63; *987, p. 59; 1017, p. 182; 1024, p. 93; 1072, p. 109). National Gypsum Co. Near west bank Savannah River, 1 mile northeast of U. S. Highway 17, 3.25 miles northwest Savannah city hall. No measurements made in 1947.

48 (*907, p. 43; *937, p. 45; 945, p. 63; *987, p. 59; 1017, p. 182; 1024, p. 93; 1072, p. 109). U. S. War Dept., Savannah Army Service Forces Depot. On west bank of Savannah River, 3.8 miles northwest Savannah city hall. No measurements made in 1947.

50 (*886, p. 74; 907, p. 43; *937, p. 45; 945, p. 63; *987, p. 59; 1017, p. 182; 1024, p. 93; 1072, p. 109). Hercules Powder Co. About 95 feet south of Louisville road, 3.2 miles west of West Broad Street, Savannah. Measurements discontinued.

63 (*907, p. 43; *937, p. 46; 945, p. 64; *987, p. 59; 1017, p. 182; 1024, p. 93; 1072, p. 109). 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, 1947: Mar. 4, 65.06; June 24, 69.10; Aug. 25, 68.78; Dec. 17, 69.59.

76 (*907, p. 44; *937, p. 46; 945, p. 64; *987, p. 59; 1017, p. 182; 1024, p. 93; 1072, p. 109). Pierpont Manufacturing Co. About 600 feet southwest of Savannah River, 2.1 miles northwest of Savannah city hall.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|
| Mar. 4 | 74.52 | Aug. 25 | 77.5 | Dec. 17 | 83.18 |
| June 24 | 77.64 | Oct. 20 | 83.02 | | |

79 (#886, p. 75; 907, p. 44; #937, p. 46; 945, p. 64; #987, p. 60; 1017, p. 183; 1024, p. 93; 1072, p. 109). 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.

High and low daily water levels, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 69.09 | 70.10 | 71.37 | 72.65 | 73.54 | 76.57 | 71.35 | 73.26 | 72.04 | 74.02 | 76.32 | 78.25 |
| 2 | 69.06 | 70.70 | 71.29 | 72.59 | 71.64 | 73.82 | 71.41 | 73.18 | 72.17 | 75.94 | 76.20 | 78.12 |
| 3 | 69.61 | 71.32 | 70.81 | 73.32 | 72.94 | 74.12 | 71.56 | 73.58 | 74.15 | 76.02 | 77.44 | 79.36 |
| 4 | 70.05 | 71.34 | 71.13 | 73.36 | 72.67 | 74.08 | 71.95 | 73.82 | 72.94 | 74.75 | 77.12 | 79.56 |
| 5 | 69.77 | 70.54 | 72.64 | 74.10 | 72.18 | 73.90 | 71.90 | 73.80 | 72.51 | 73.83 | 76.90 | 78.60 |
| 6 | 69.52 | 71.62 | 74.10 | 75.75 | 72.15 | 73.87 | 71.17 | 73.45 | 72.97 | 75.60 | 76.77 | 78.47 |
| 7 | 70.82 | 72.07 | 73.89 | 74.78 | 72.04 | 73.56 | 70.68 | 73.14 | 73.46 | 75.61 | 78.14 | 80.05 |
| 8 | 70.57 | 72.0 | 74.28 | 74.68 | 70.82 | 73.25 | 71.70 | 73.67 | 73.54 | 75.16 | 77.41 | 78.99 |
| 9 | 70.97 | 72.38 | 74.28 | 75.88 | 70.86 | 72.37 | 71.95 | 74.0 | 73.61 | 75.35 | 76.67 | 78.69 |
| 10 | 71.24 | 72.65 | 74.85 | 76.02 | 70.86 | 72.95 | 72.35 | 73.78 | 74.45 | 75.57 | 78.09 | 79.10 |
| 11 | 71.06 | 72.10 | 75.27 | 75.81 | 72.56 | 73.56 | 71.76 | 73.53 | 73.30 | 75.50 | 77.16 | 78.48 |
| 12 | 70.81 | 71.74 | 74.87 | 75.59 | 71.79 | 73.50 | 71.76 | 73.50 | 72.98 | 75.75 | 77.08 | 77.93 |
| 13 | 70.70 | 72.40 | 73.49 | 75.19 | 71.50 | 73.36 | 70.86 | 73.30 | 74.25 | 76.75 | 76.31 | 78.05 |
| 14 | 71.17 | 72.61 | 72.70 | 74.48 | 71.52 | 73.44 | 70.25 | 73.09 | 73.61 | 77.11 | 78.04 | 79.15 |
| 15 | 71.42 | 72.84 | 72.12 | 74.18 | 71.63 | 73.32 | 71.62 | 73.67 | 75.97 | 77.94 | 77.0 | 78.05 |
| 16 | 71.56 | 73.0 | 70.97 | 73.32 | 70.92 | 73.10 | 71.90 | 73.85 | 74.0 | 76.01 | 76.37 | 78.25 |
| 17 | 71.71 | 73.07 | 69.47 | 72.95 | 70.51 | 72.87 | 72.15 | 74.30 | 77.52 | 79.70 | 78.25 | 79.55 |
| 18 | 71.63 | 72.53 | 71.27 | 73.35 | 71.34 | 73.75 | 72.60 | 74.37 | 77.10 | 79.72 | 77.87 | 79.60 |
| 19 | 71.10 | 71.84 | 71.62 | 73.40 | 71.02 | 72.76 | 72.31 | 74.25 | 75.95 | 77.87 | 78.13 | 80.50 |
| 20 | 70.64 | 73.33 | 71.37 | 73.44 | 71.23 | 73.11 | 70.92 | 72.31 | 76.27 | 79.65 | 78.55 | 80.20 |
| 21 | 71.40 | 72.85 | 71.88 | 73.79 | 71.46 | 75.10 | 70.48 | 73.03 | 76.62 | 79.67 | 79.40 | 80.90 |
| 22 | 71.66 | 72.97 | 71.77 | 73.78 | 72.70 | 75.0 | 71.51 | 73.67 | 75.29 | 76.87 | 77.63 | 79.40 |
| 23 | 71.74 | 73.02 | 71.87 | 73.28 | 71.59 | 73.40 | 71.86 | 73.66 | 75.28 | 76.90 | 76.81 | 78.90 |
| 24 | 71.66 | 72.66 | 71.58 | 73.51 | 70.85 | 72.54 | 71.92 | 73.86 | 76.75 | 77.09 | 78.37 | 79.30 |
| 25 | 71.22 | 72.10 | 73.49 | 73.82 | 71.0 | 73.24 | 72.08 | 73.87 | 75.88 | 76.92 | 77.33 | 78.37 |
| 26 | 70.15 | 71.77 | 73.55 | 73.97 | 71.29 | 73.24 | 71.91 | 73.80 | 74.97 | 78.37 | 76.96 | 78.69 |
| 27 | 69.92 | 71.78 | 72.48 | 75.45 | 71.48 | 73.35 | 71.36 | 73.34 | 77.15 | 79.10 | 77.10 | 78.69 |
| 28 | 70.58 | 72.07 | 74.33 | 77.02 | 71.54 | 73.70 | 70.87 | 73.28 | 75.77 | 77.76 | 78.20 | 79.14 |
| 29 | 70.78 | 72.33 | | | 71.96 | 73.70 | 71.60 | 73.68 | 75.90 | 77.88 | 76.85 | 78.96 |
| 30 | 71.0 | 72.34 | | | 71.30 | 73.24 | 72.06 | 73.69 | 76.35 | 78.30 | 75.06 | 78.28 |
| 31 | 70.92 | 72.63 | | | 71.05 | 73.06 | | | 77.69 | 79.04 | | |

High and low daily water levels, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | December | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 78.28 | 79.57 | 78.07 | 81.10 | ..... | ..... | 76.66 | 79.41 | ..... | ..... |
| 2 | 77.77 | 79.06 | 80.42 | 82.65 | ..... | ..... | 77.0 | 79.55 | ..... | ..... |
| 3 | 77.30 | 78.57 | ..... | ..... | ..... | ..... | 77.21 | 79.57 | ..... | ..... |
| 4 | 75.85 | 77.97 | ..... | ..... | ..... | ..... | 77.15 | 79.23 | ..... | ..... |
| 5 | 75.86 | 77.14 | ..... | ..... | ..... | ..... | 76.74 | 78.81 | ..... | ..... |
| 6 | 75.03 | 76.20 | 78.55 | 81.29 | ..... | ..... | 76.32 | 78.05 | ..... | ..... |
| 7 | 75.07 | 77.29 | 78.41 | 80.95 | ..... | ..... | 76.08 | 78.0 | ..... | ..... |
| 8 | 77.02 | 78.94 | 78.45 | 80.54 | ..... | ..... | 76.44 | 78.08 | ..... | ..... |
| 9 | 75.81 | 77.10 | 79.90 | 81.62 | ..... | ..... | 76.44 | 78.93 | ..... | ..... |
| 10 | 75.16 | 77.52 | 76.64 | 79.50 | ..... | ..... | 77.12 | 78.66 | ..... | ..... |
| 11 | 75.43 | 77.36 | 77.50 | 80.77 | ..... | ..... | ..... | ..... | ..... | ..... |
| 12 | 76.83 | 78.90 | 79.58 | 81.41 | ..... | ..... | ..... | ..... | ..... | ..... |
| 13 | 75.44 | 77.20 | 78.35 | 79.95 | ..... | ..... | ..... | ..... | ..... | ..... |
| 14 | 75.05 | 76.93 | 77.90 | 80.70 | ..... | ..... | ..... | ..... | ..... | ..... |
| 15 | 76.95 | 79.31 | 78.45 | 80.22 | ..... | ..... | ..... | ..... | ..... | ..... |
| 16 | 76.56 | 78.66 | 79.21 | 80.95 | ..... | ..... | ..... | ..... | ..... | ..... |
| 17 | 76.80 | 78.52 | 77.47 | 78.61 | ..... | ..... | ..... | ..... | ..... | 77.80 |
| 18 | 76.84 | 78.14 | 76.85 | 79.70 | ..... | ..... | ..... | ..... | 76.15 | 77.94 |
| 19 | 77.59 | 80.25 | 78.05 | 80.05 | ..... | ..... | ..... | ..... | 76.33 | 77.91 |
| 20 | 76.10 | 78.88 | 77.67 | 80.20 | ..... | ..... | ..... | ..... | 76.82 | 77.72 |
| 21 | 75.27 | 78.41 | 78.05 | 80.27 | ..... | ..... | ..... | ..... | 75.51 | 77.55 |
| 22 | 77.84 | 80.0 | 77.58 | 80.12 | ..... | ..... | ..... | ..... | 75.0 | 77.06 |
| 23 | 77.47 | 79.42 | 79.0 | 80.70 | ..... | ..... | ..... | ..... | 75.47 | 77.29 |

79--Continued.

 High and low daily water levels, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | December | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 24 | 77.51 | 80.54 | 77.53 | 79.50 | 76.24 | 77.57 | ..... | ..... | 75.83 | 77.56 |
| 25 | 78.38 | 80.27 | 76.46 | 79.55 | 76.45 | 79.26 | ..... | ..... | 74.53 | 77.34 |
| 26 | 78.87 | 80.51 | ..... | ..... | 77.30 | 79.75 | ..... | ..... | ..... | 74.72 |
| 27 | 76.99 | 78.61 | ..... | ..... | 77.35 | 79.34 | ..... | ..... | ..... | ..... |
| 28 | 76.76 | 79.63 | ..... | ..... | 76.66 | 78.45 | ..... | ..... | ..... | ..... |
| 29 | 78.60 | 80.76 | ..... | ..... | 76.03 | 79.14 | ..... | ..... | ..... | ..... |
| 30 | 78.36 | 79.95 | ..... | ..... | 76.75 | 78.75 | ..... | ..... | ..... | ..... |
| 31 | 78.31 | 80.50 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 74.30 |

81 (*907, p. 45; *937, p. 47; 945, p. 65; *987, p. 61; 1017, p. 183; 1024, p. 94; 1072, p. 110). 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 level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|
| Mar. 4 | 39.84 | Aug. 25 | 41.62 | Dec. 17 | 43.9 |
| June 24 | 42.20 | Oct. 30 | 44.78 | | |

84 (*907, p. 45; *937, p. 47; 945, p. 65; *987, p. 61; 1017, p. 183; 1024, p. 94; 1072, p. 110). 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, 1947: Mar. 4, 30.54; June 24, 30.80; Aug. 25, 32.68; Dec. 17, 31.98.

86 (*945, p. 66; *987, p. 61; 1017, p. 183; 1024, p. 94; 1072, p. 111). Southern Cotton Oil Co. well 2150. 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, 1947: June 24, 82.89; Oct. 30, 85.87; Dec. 17, 86.51.

87 (*907, p. 45; 937, p. 47; 945, p. 66; *987, p. 61; 1017, p. 183; 1024, p. 94; 1072, p. 111). 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. Measurements discontinued.

100 (*987, p. 62; 1017, p. 184; 1024, p. 94; 1072, p. 111). 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, 1947: Mar. 5, 34.40; June 24, 38.63; Aug. 25, 39.75; Dec. 17, 38.27.

105 (*845, p. 54; 886, p. 75; 907, p. 45; 937, p. 47; 945, p. 67; *987, p. 63; 1017, p. 184; 1024, p. 94; 1072, p. 111). Pratt Gay. On south side of Louisville Road, near intersection with Pine Barren road, 8 miles west of Savannah. Measurements discontinued.

109 (*845, p. 54; 886, p. 75; 907, p. 45; 937, p. 47; 945, p. 67; *987, p. 63; 1017, p. 184; 1024, p. 95; 1072, p. 111). 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, 1947: Mar. 4, 15.66; June 24, 16.78; Oct. 30, 17.66; Dec. 17, 18.50.

112 (*907, p. 46; *937, p. 47; 945, p. 67; *987, p. 63; 1017, p. 184; 1024, p. 95; 1072, p. 111). 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, 1947: Mar. 4, 2.04; June 24, 2.40; Sept. 25, 2.70; Dec. 17, 2.86.

117 (*907, p. 46; *937, p. 47; 945, p. 67; *987, p. 63; 1017, p. 184; 1024, p. 95; 1072, p. 111). U. S. War Department. At Fort Screven, Tybee Island, about 300 feet south of old lighthouse. No measurements made in 1947.

121 (*886, p. 75; 907, p. 46; 937, p. 48; 945, p. 66; *987, p. 63; 1017, p. 184; 1024, p. 95; 1072, p. 111). Robert Schneider. About 50 feet north of Tybee road, in northwestern part of Tybee Island.

121--Continued.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|
| Mar. 5 | 5.82 | Aug. 25 | 6.79 | Dec. 17 | 4.87 |
| June 24 | 4.86 | Oct. 29 | 5.68 | | |

122 (#907, p. 46; 937, p. 48; 945, p. 68; #987, p. 63; 1017, p. 184; 1024, p. 95; 1072, p. 111). State Highway Department. Near southwest end of steel truss bridge over Bull River on Tybee road, 7 miles east of Savannah.

Water level, in feet below land-surface datum, 1947

| | | | | | |
|---------|-------|---------|-------|---------|-------|
| Mar. 5 | 12.82 | Aug. 25 | 14.48 | Dec. 17 | 13.72 |
| June 24 | 12.90 | Oct. 29 | 14.22 | | |

123 (#886, p. 75; 907, p. 46; #937, p. 48; 945, p. 68; #987, p. 64; 1017, p. 184; 1024, p. 95; 1072, p. 111). 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, 1947: Mar. 5, 8.94; Aug. 25, 11.30; Oct. 29, 10.18; Dec. 17, 10.59.

126 (#845, p. 54; 886, p. 76; 907, p. 47; #937, p. 49; 945, p. 69; #987, p. 65; 1017, p. 185; 1024, p. 95; 1072, p. 111). Atlantic Mutual Fire Insurance Co. At south end of Wilmington Island. Measurements discontinued.

128 (#945, p. 69; #987, p. 65; 1017, p. 185; 1024, p. 95; 1072, p. 111). Southeastern Medical Center. On Oatland Island, about 4 miles southeast of Savannah, on east side of main building. Water level, in feet below land-surface datum, 1947: Mar. 5, 29.18.

128a. Southern Medical Center. On Oatland Island, about 4 miles southeast of Savannah, 200 yards east of main building. Measuring point, hole in pump base plate, 0.5 foot above land-surface datum and 16 feet above mean sea level. Water levels, in feet below land-surface datum, 1947: Oct. 29, 34.78; Dec. 17, 34.28.

131 (#886, p. 76; 907, p. 47; #937, p. 49; 945, p. 69; #987, p. 65; 1017, p. 185; 1024, p. 95; 1072, p. 112). 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, 1947: Mar. 4, 7.90; Aug. 25, 9.15; Dec. 17, 9.85.

133 (#945, p. 69; #987, p. 65; 1017, p. 185; 1024, p. 95; 1072, p. 112). State Highway Department. About 2.6 miles north of Monteith, at foot of shoulder, east of State Highway 21, on north bank of Black Creek. Measurements discontinued.

134 (#945, p. 69; #987, p. 65; 1017, p. 185; 1024, p. 95; 1072, p. 112). 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, 1947: Mar. 4, 29.62; June 24, 31.81; Oct. 29, 31.53; Dec. 18, 31.31.

137 (#907, p. 47; #937, p. 49; 945, p. 70; #987, p. 65; 1017, p. 185; 1024, p. 95; 1072, p. 112). G. P. Rowland. Montgomery, in northern part, on east side Ferguson Avenue. Water level, in feet below land-surface datum, 1947: Mar. 4, 12.56.

143 (#886, p. 76; 907, p. 47; #937, p. 49; 945, p. 70; #987, p. 65; 1017, p. 185; 1024, p. 95; 1072, p. 112). K. B. Lane. In Anderson, about 600 feet north of Seaboard Air Line Railway. No measurements made in 1947.

144 (#945, p. 70; #987, p. 66; 1017, p. 185; 1024, p. 96; 1072, p. 112). J. F. Zipperer. On north side of U. S. Highway 17, 0.2 mile east of its intersection with Port Argyle road. Measurements discontinued.

145 (#886, p. 76; 907, p. 47; #937, p. 49; 945, p. 70; #987, p. 66; 1017, p. 185; 1024, p. 96; 1072, p. 112). 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, 1947: Mar. 5, +0.34; Aug. 26, -0.50; Dec. 18, -0.51.

166 (#945, p. 70; #987, p. 66; 1017, p. 185; 1024, p. 96; 1072, p. 112). Chatham County. At school, on north side of Pine Barren road, 0.8 mile west of Louisville road. Measurements discontinued.

169 (*907, p. 48; *937, p. 49; 945, p. 70; *987, p. 66; 1017, p. 186; 1024, p. 96 ; 1072, p. 112). 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, 1947: Mar. 4, 4.39; Dec. 17, 2.93.

174 (*907, p. 48; *937, p. 49; 945, p. 70; *987, p. 66; 1017, p. 186; 1024, p. 96; 1072, p. 112). Mrs. Eda W. Sapp. About 750 feet north of Pine Barren road, 0.5 mile east of Ogeechee River. Water levels, in feet above land-surface datum, 1947: Mar. 4, 6.88; Dec. 17, 7.0.

194 (*886, p. 76; 907, p. 48; *937, p. 50; 945, p. 70; *987, p. 66; 1017, p. 186; 1024, p. 96 ; 1072, p. 112). Mrs. W. W. Keller, Sr. At Drake's Bluff, on west bank of Savannah River, about 8 miles northwest of Savannah. Water levels, in feet below land-surface datum, 1947: Mar. 4, 18.70; Dec. 17, 21.14.

199 (*886, p. 76; 907, p. 48; *937, p. 50; 945, p. 70; *987, p. 66; 1017, p. 186; 1024, p. 96 ; 1072, p. 112). Mrs. Hattie F. Keller. At Meinhard, about 0.25 mile south of Monteith road, about 750 feet west of Savannah & Atlanta Railway. Measurements discontinued.

203 (*945, p. 54; 886, p. 76; 907, p. 48; *937, p. 50; 945, p. 70; *987, p. 66; 1017, p. 186; 1024, p. 96 ; 1072, p. 112). Atlantic Coast Line Railroad. At house of section foreman, Cherokee Hill. Measurements discontinued.

213 (*886, p. 76; 907, p. 48; *937, p. 50; 945, p. 70; *987, p. 66; 1017, p. 186; 1024, p. 96 ; 1072, p. 112). J. L. Budreau. At intersection of Burroughs road and U. S. Highway 17. Water levels, in feet below land-surface datum, 1947: Mar. 5, 0.50; June 23, 1.04; Aug. 26, 1.32; Dec. 18, 1.33.

242 (*945, p. 71; *987, p. 66; 1017, p. 186; 1024, p. 96 ; 1072, p. 113). J. L. Budreau. On east side of Burroughs road, 0.9 mile south of U. S. Highway 17. Water level, in feet above land-surface datum, 1947: Mar. 5, 0.82.

256 (*937, p. 50; 945, p. 71; *987, p. 67; 1017, p. 186; 1024, p. 96; 1072, p. 113). Mrs. W. M. Price. At Bloomingdale, on south side of Central of Georgia Railway, opposite depot. Measurements discontinued.

265 (*1017, p. 186; 1024, p. 96 ; 1072, p. 113). Mrs. S. B. Macon. At Pooler, near southeast end of bridge on U. S. Highway 80 over Central of Georgia Railway. No measurements made in 1947.

266 (*907, p. 48; *937, p. 50; 945, p. 71; *987, p. 67; 1017, p. 186; 1024, p. 96 ; 1072, p. 113). Dr. J. F. Chisholm. 1 mile east of Augusta road, 3.5 miles north of Monteith. Water levels, in feet below land-surface datum, 1947: Mar. 4, 5.2; June 24, 5.90; Aug. 25, 6.12; Dec. 17, 6.77.

269 (*907, p. 48; *937, p. 51; 945, p. 71; *987, p. 67; 1017, p. 186; 1024, p. 96 ; 1072, p. 113). J. W. Pierpont Estate. In east part of Isle of Hope. Water level affected by tide.

Water level, in feet, 1947

| Date | Hour | Elevation of tide in Skidaway River, in feet with ref- erence to measuring point | Hour | Water level in well, in feet below land- surface datum |
|---------|-----------|--|-----------|--|
| Mar. 4 | 5:15 p.m. | -10.39 | 5:08 p.m. | 15.11 |
| June 24 | 3:24 p.m. | -13.44 | 3:18 p.m. | 17.03 |
| Aug. 25 | 6:19 p.m. | -11.67 | 6:12 p.m. | 17.71 |
| Oct. 29 | ..... | (a) | 3:42 p.m. | 17.58 |
| Dec. 18 | 8:03 p.m. | -13.45 | 7:57 p.m. | 17.32 |

a No record.

273 (*907, p. 49; *937, p. 51; 945, p. 71; *987, p. 67; 1017, p. 186; 1024, p. 96; 1072, p. 113). C. A. Gross. On west side of Isle of Hope road, 1.5 miles north of Isle of Hope.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|
| Mar. 4 | 21.7 | Aug. 25 | 24.62 | Dec. 18 | 24.08 |
| June 24 | 24.28 | Oct. 29 | 24.52 | | |

275 (*886, p. 77; 907, p. 49; *937, p. 51; 945, p. 71; *987, p. 67; 1017, p. 186; 1024, p. 97; 1072, p. 113). Mrs. R. J. Travis. At Avalon. Measurements discontinued.

279 (*907, p. 49; *937, p. 51; 945, p. 71; *987, p. 67; 1017, p. 186; 1024, p. 97; 1072, p. 113). J. B. Pound Hotel Corporation. On Wilmington Island, at General Oglethorpe Hotel.

Water level, in feet below land-surface datum, 1947

| Date | Hour | Water level |
|---------|------------|-------------|
| Mar. 5 | 9:30 a.m. | 20.90 |
| June 24 | 2:48 p.m. | 23.49 |
| Aug. 25 | 11:08 a.m. | 23.98 |
| Oct. 29 | 11:20 a.m. | 22.44 |
| Dec. 17 | 8:47 a.m. | 23.80 |

312 (*907, p. 49; *937, p. 51; 945, p. 71; *987, p. 67; 1017, p. 187; 1024, p. 97; 1072, p. 113). Miss Mamie Taylor. About 50 feet north-east of Louisville road, about 0.4 mile northwest of intersection with Pine Barren road. Measurements discontinued.

314 (*907, p. 49; *937, p. 52; 945, p. 71; *987, p. 67; 1017, p. 187; 1024, p. 97; 1072, p. 113). J. M. Breckenridge. About 600 feet west of White Bluff road, 0.3 mile north of Buckhalter road.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|
| Mar. 4 | 31.83 | Aug. 25 | 33.58 | Dec. 18 | 33.29 |
| June 24 | 34.24 | Oct. 29 | 33.48 | | |

321 (*907, p. 49; *937, p. 52; 945, p. 71; *987, p. 68; 1017, p. 187; 1024, p. 97; 1072, p. 113). R. C. Hinley. About 8.25 miles south of Savannah city hall, 100 feet north of Vernonburg Avenue, 0.1 mile east of White Bluff road. Water levels, in feet below land-surface datum, 1947: Mar. 4, 12.13; Aug. 25, 13.26; Oct. 29, 13.30; Dec. 18, 13.44.

326 (*937, p. 52; 945, p. 72; *987, p. 68; 1017, p. 187; 1024, p. 97; 1072, p. 113). R. E. Heller. In eastern part of Coffee Bluff. Measurements discontinued.

328 (*907, p. 50; *937, p. 52; 945, p. 72; *987, p. 68; 1017, p. 187; 1024, p. 97; 1072, p. 113). U. S. War Department. At Fort Screven on Tybee Island.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|
| Mar. 5 | 9.81 | Aug. 25 | 10.63 | Dec. 17 | 9.06 |
| June 24 | 8.60 | Oct. 29 | 11.23 | | |

330 (*937, p. 53; 945, p. 73; *987, p. 69; 1017, p. 187; 1024, p. 97; 1072, p. 114). State Highway Department. On southeast side of U. S. Highway 17, 6 miles southwest of Savannah. Water level, in feet below land-surface datum, 1947: Mar. 5, 1.58.

331 (*945, p. 73; *987, p. 69; 1017, p. 187; 1024, p. 97; 1072, p. 114). J. E. Poythress. At Zelma 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, 1947: Mar. 4, 10.83; June 24, 11.20; Aug. 25, 11.48; Dec. 17, 12.10.

332 (*945, p. 73; *987, p. 69; 1017, p. 187; 1024, p. 97; 1072, p. 114). 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, 1947: Mar. 4, 2.70; June 24, 2.90; Dec. 18, 3.60.

343 (*945, p. 73; *987, p. 70; 1017, p. 188; 1024, p. 97; 1072, p. 114). U. S. Dept. of Agriculture. At Barbour Lathrop Plant Introduction Station, about 12 miles southwest of Savannah, and about 200 feet northeast of Fort Argyle road.

Water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1 | 6.34 | 6.29 | 6.73 | 4.27 | 4.10 | 5.49 | 4.24 | 5.71 | 6.08 | 2.61 | 3.03 | 2.52 |
| 2 | 6.35 | 6.25 | 6.64 | 4.15 | 3.08 | 5.55 | 4.30 | 5.82 | 6.20 | 2.72 | 1.12 | 2.61 |
| 3 | 6.35 | 6.15 | 6.66 | 3.90 | .... | 5.61 | 4.38 | 5.93 | 6.34 | 2.83 | 1.55 | 2.68 |
| 4 | 6.39 | 5.98 | 6.61 | 3.90 | .... | 5.71 | 4.47 | 5.99 | 6.49 | 2.93 | 1.86 | 2.74 |
| 5 | 6.33 | 6.07 | 6.54 | 3.95 | 3.38 | 5.78 | 4.56 | 6.03 | 6.57 | 3.02 | 2.05 | 2.78 |
| 6 | 6.34 | 6.05 | 6.47 | 4.01 | 3.51 | 5.84 | 4.66 | 6.09 | 6.67 | 2.85 | 1.66 | 2.85 |
| 7 | 6.30 | 6.01 | 6.45 | 4.08 | 3.62 | 5.92 | 4.78 | 6.12 | 6.77 | 1.83 | 1.96 | 2.93 |
| 8 | 6.26 | 6.12 | 6.25 | 4.13 | 3.75 | 6.0 | 4.87 | 6.23 | 6.86 | 1.70 | 1.82 | 3.01 |
| 9 | 6.30 | 6.18 | 6.16 | 4.19 | 3.86 | 6.10 | 4.76 | 6.30 | 6.94 | 2.10 | 2.19 | 3.08 |
| 10 | 6.34 | 6.25 | 5.93 | 4.31 | 3.97 | 6.13 | 4.66 | 6.40 | 7.01 | 2.32 | 2.44 | 1.96 |
| 11 | 6.30 | 6.28 | 5.74 | 4.33 | 4.07 | 6.17 | 4.71 | 6.49 | 7.07 | 2.47 | 2.1 | 1.98 |
| 12 | 6.28 | 6.31 | 5.59 | 4.33 | 4.19 | 5.73 | 4.82 | 6.55 | 7.05 | 2.58 | 1.6 | .42 |
| 13 | 6.21 | 6.33 | 5.44 | 4.29 | 4.26 | 5.03 | 4.92 | 6.35 | 6.85 | 2.70 | 1.98 | .27 |
| 14 | 6.16 | 6.34 | 5.28 | 4.32 | 4.35 | 4.82 | 5.01 | 6.29 | 6.77 | 2.81 | 2.18 | .63 |
| 15 | 6.06 | 6.34 | 4.95 | 4.01 | 4.45 | 4.35 | 5.09 | 6.21 | 6.72 | 2.28 | 2.16 | .12 |
| 16 | 6.0 | 6.42 | 4.82 | 3.46 | 4.55 | 4.33 | 5.19 | 6.18 | 6.74 | 1.95 | 2.36 | .45 |
| 17 | 5.99 | 6.49 | 4.77 | 3.11 | 4.62 | 4.43 | 5.02 | 6.20 | 6.71 | 2.18 | 2.37 | .92 |
| 18 | 5.97 | 6.52 | 4.82 | 3.23 | 4.70 | 4.59 | 4.79 | 6.23 | 6.22 | 2.39 | 2.40 | 1.22 |
| 19 | 5.92 | 6.53 | 4.75 | 3.34 | 4.79 | 4.71 | 4.68 | 6.25 | 4.90 | 2.55 | 1.31 | 1.47 |
| 20 | 5.87 | 6.51 | 4.70 | 3.43 | 4.88 | 4.85 | 4.69 | 6.35 | 4.59 | 2.67 | 1.70 | 1.66 |
| 21 | 6.01 | 6.61 | 4.61 | 3.52 | 4.96 | 4.92 | 4.77 | 6.28 | 4.58 | 2.80 | 1.95 | .07 |
| 22 | 6.07 | 6.66 | 4.61 | 3.62 | 5.04 | 4.40 | 4.91 | 6.25 | 4.63 | 2.91 | 2.08 | .42 |
| 23 | 6.07 | 6.63 | 4.62 | 3.68 | 5.03 | 3.51 | 5.09 | 6.27 | 4.66 | 3.0 | 2.06 | .82 |
| 24 | 6.07 | 6.71 | 4.62 | 3.75 | 5.03 | 3.54 | 5.22 | 6.33 | .60 | 3.08 | 1.85 | 1.23 |
| 25 | 6.10 | 6.77 | 4.65 | 3.81 | 5.07 | 3.69 | .... | 6.38 | 1.21 | 2.58 | 1.41 | 1.43 |
| 26 | 6.13 | 6.81 | 4.61 | 3.91 | 5.16 | 3.78 | .... | 6.20 | 1.75 | 2.57 | 1.78 | 1.68 |
| 27 | 6.23 | 6.83 | 4.65 | 3.99 | 5.20 | 3.84 | .... | 5.99 | 2.05 | 2.71 | 2.03 | 1.86 |
| 28 | 6.29 | 6.86 | 4.71 | 4.08 | 5.25 | 3.95 | 5.44 | 5.88 | 2.23 | 2.46 | 2.18 | 1.97 |
| 29 | 6.31 | | 4.73 | 4.17 | 5.29 | 4.05 | 5.49 | 5.87 | 2.33 | 2.62 | 2.32 | 2.14 |
| 30 | 6.32 | | 4.54 | 4.24 | 3.35 | 4.17 | 5.38 | 5.90 | 2.46 | 2.78 | 2.41 | 2.20 |
| 31 | 6.36 | | 4.50 | | 5.49 | | 5.64 | 5.97 | | 2.90 | | 2.28 |

Clayton County

7 (*987, p. 71; 1017, p. 188; 1024, p. 98; 1072, p. 115). 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, 1947: Apr. 17, 23.22; Dec. 19, 24.06.

14 (*987, p. 71; 1017, p. 189; 1024, p. 99; 1072, p. 115). 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 levels, in feet below land-surface datum, 1947: Apr. 17, 59.84; Dec. 19, 59.92.

15 (*987, p. 71; 1017, p. 189; 1024, p. 99; 1072, p. 115). 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 level, in feet below land-surface datum, 1947: Apr. 17, 58.84.

26 (*987, p. 71; 1017, p. 189; 1024, p. 99; 1072, p. 115). 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, 1947: Apr. 17, 25.01; Dec. 19, 26.05.

27 (*987, p. 71; 1017, p. 189; 1024, p. 99; 1072, p. 115). 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, 1947: Apr. 17, 34.98; Dec. 19, 31.62.

Cobb County

5 (*987, p. 72; 1017, p. 189; 1024, p. 99; 1072, p. 115). 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, 1947: Apr. 16, 9.63; Dec. 22, 10.83.

6 (*987, p. 72; 1017, p. 189; 1024, p. 99; 1072, p. 115). City of Smyrna. At Smyrna, at junction of Old Roswell, New Roswell, and Highland roads. Water levels, in feet below land-surface datum, 1947: Apr. 16, 11.71; Dec. 22, 15.92.

11 (*987, p. 72; 1017, p. 189; 1024, p. 99; 1072, p. 115). 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, 1947: Apr. 16, 22.6; Dec. 22, 33.47.

14 (*987, p. 72; 1017, p. 189; 1024, p. 99; 1072, p. 115). 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, 1947: Apr. 16, 47.95; Dec. 22, 43.58.

21 (*987, p. 72; 1017, p. 189; 1024, p. 99; 1072, p. 116). 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, 1947: Apr. 16, 30.33; Dec. 22, 33.37.

25 (*987, p. 72; 1017, p. 190; 1024, p. 99; 1072, p. 116). 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. Water level, in feet below land-surface datum, 1947: Apr. 16, 12.81.

27 (*937, p. 72; 1017, p. 190; 1024, p. 100; 1072, p. 116). R. D. Webb. At Oakdale, on Log Cabin Drive, about 0.45 mile northwest of underpass under Georgia Power Co. electric railway, approximately 150 feet north of center of Log Cabin Drive. Water levels, in feet below land-surface datum, 1947: Apr. 16, 18.97; Dec. 22, 25.76.

32 (*987, p. 72; 1017, p. 190; 1024, p. 100; 1072, p. 116). Mrs. F. C. Arnold. At Oakdale, about 1.15 miles south of Southern Railway, along the Oakdale road, about 35 feet east of center of road. Measurements discontinued.

36 (*987, p. 72; 1017, p. 190; 1024, p. 100; 1072, p. 116). 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. Measurements discontinued.

44 (*987, p. 73; 1017, p. 190; 1024, p. 100; 1072, p. 116). Mrs. J. A. West. At Oakdale, about 0.65 mile south of Southern Railway, along the Oakdale road, about 62 feet east of center of road. Measurements discontinued.

52 (*987, p. 72; 1017, p. 190; 1024, p. 100; 1072, p. 116). G. C. Johnson. At Oakdale, about 0.2 mile north of Southern Railway, along the Oakdale road and 100 feet west of center of road. Water levels, in feet below land-surface datum, 1947: Apr. 16, 12.97; Dec. 22, 16.31.

57 (*987, p. 73; 1017, p. 190; 1024, p. 100; 1072, p. 116). 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. Measurements discontinued.

71 (*987, p. 73; 1017, p. 190; 1024, p. 100; 1072, p. 116). 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, 1947: Apr. 16, 57.73; Dec. 22, 58.36.

74 (*987, p. 73; 1017, p. 190; 1024, p. 100; 1072, p. 116). 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, 1947: Mar. 18, 45.87; Dec. 22, 46.53.

83 (*987, p. 72; 1017, p. 190; 1024, p. 100; 1072, p. 116). 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, 1947: Mar. 18, 3.53; Dec. 22, 4.03.

85 (*987, p. 73; 1017, p. 190; 1024, p. 100; 1072, p. 116). 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, 1947: Mar. 18, 18.31; Dec. 22, 29.35.

Coffee County

3 (945, p. 74; *987, p. 73; 1017, p. 190; 1024, p. 100; 1072, p. 117). 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. Measurements discontinued.

DeKalb County

17 (*987, p. 74; 1017, p. 191; 1024, p. 101; 1072, p. 117). 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, 1947: Apr. 17, 29.66; Dec. 22, 32.27.

29 (*1017, p. 191; 1024, p. 101; 1072, p. 117). 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 1947: Apr. 17, 37.29; Dec. 22, 38.78.

34 (*1017, p. 191; 1024, p. 101; 1072, p. 117). 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, 1947: Apr. 17, 47.89; Dec. 22, 48.59.

39 (*1017, p. 191; 1024, p. 101; 1072, p. 117). 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, 1947: Apr. 17, 37.52; Dec. 22, 38.80.

40 (*1017, p. 191; 1024, p. 101; 1072, p. 117). 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, 1947: Apr. 17, 3.23; Dec. 22, 2.80.

50 (*1017, p. 191; 1024, p. 101; 1072, p. 117). 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, 1947: Apr. 17, 33.22; Dec. 22, 33.72.

Early County

2 (*937, p. 53; 945, p. 75; *987, p. 74; 1017, p. 191; 1024, p. 101; 1072, p. 117). Emory University Field Station well 19. Plez Douglas. About 2.4 miles northeast of Damascus, 1.4 miles east of Seaboard Air Line Railway, and 60 feet south of county road.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|--------|-------------|---------|-------------|
| Jan. 7 | 13.08 | Mar. 18 | 0.09 | June 3 | 0.29 | Aug. 19 | 1.69 |
| 14 | 6.44 | 25 | .31 | 10 | 1.16 | 26 | .85 |
| 21 | 4.14 | Apr. 1 | .15 | 17 | 1.15 | Sept. 2 | 1.64 |
| 28 | 4.31 | 9 | .44 | 24 | .32 | 9 | 2.33 |
| Feb. 4 | 4.60 | 22 | .22 | July 8 | .11 | 16 | 2.36 |
| 11 | 4.96 | 29 | .42 | 15 | 1.28 | 30 | 3.52 |
| 18 | 5.88 | May 6 | .24 | 22 | 1.15 | Oct. 7 | 4.55 |
| 25 | 6.58 | 13 | .98 | 29 | .77 | 14 | 5.39 |
| Mar. 4 | 6.52 | 20 | 1.55 | Aug. 5 | 1.82 | 21 | 6.77 |
| 11 | .27 | 27 | .29 | 12 | 1.84 | | |

6 (*937, p. 54; 945, p. 75; *987, p. 74; 1017, p. 192; 1024, p. 101; 1072, p. 118). Emory University Field Station well 23. P. F. Chandler. About 1.3 miles north of Douglasville, 2.7 miles east of Seaboard Air Line Railway, 50 feet west of T-junction of county roads.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|--------|------|--------|------|---------|------|----------|------|
| Jan. 9 | (a) | Apr. 3 | 0.64 | July 18 | 1.66 | Sept. 11 | 5.56 |
| Feb. 6 | 4.20 | May 2 | 1.09 | Aug. 14 | 3.12 | Oct. 9 | 9.90 |
| Mar. 7 | 3.80 | June 5 | 1.61 | | | | |

a Dry.

18 (*937, p. 54; 945, p. 75; *987, p. 74; 1017, p. 192; 1024, p. 102; 1072, p. 118). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|----------|-------------|
| Jan. 9 | 6.87 | Apr. 3 | 2.65 | July 18 | 3.27 | Sept. 11 | 4.94 |
| Feb. 6 | 5.95 | May 2 | 3.03 | Aug. 14 | 3.52 | Oct. 9 | 7.08 |
| Mar. 7 | 3.26 | June 5 | 2.96 | | | | |

Effingham County

6 (*937, p. 54; 945, p. 75; *987, p. 75; 1017, p. 192; 1024, p. 102; 1072, p. 118). W. B. Butler. In 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, 1947: Mar. 4, 1.51; June 23, 1.47; Dec. 18, 1.72.

7 (*886, p. 77; 907, p. 51; *937, p. 54; 945, p. 76; *987, p. 75; 1017, p. 192; 1024, p. 102; 1072, p. 118). Central of Georgia Railway. In Meldrim, between Central of Georgia Railway and Seaboard Air Line Railway, about 200 feet west of station. No measurements made in 1947.

16 (*937, p. 55; 945, p. 76; *987, p. 75; 1017, p. 192; 1024, p. 102; 1072, p. 118). Coastal Service Co. In Springfield, in northern part, near bottom of valley south of Jacks Branch, about 300 feet east of State Highway 21. Measurements discontinued.

18 (*937, p. 55; 945, p. 76; *987, p. 75; 1017, p. 192; 1024, p. 102; 1072, p. 118). Steel Bridge Club. Four miles southwest of Guyton, near east side of steel bridge over Ogeechee River, on Springfield-Statesboro road on south side of road. No measurements made in 1947.

20 (*937, p. 55; 945, p. 76; *987, p. 75; 1017, p. 192; 1024, p. 102; 1072, p. 118). J. D. Hagin. In Pineora, 3 miles south of Guyton, 0.2 mile west of Central of Georgia Railway. Water levels, in feet below land-surface datum, 1947: Mar. 4, 38.56; Dec. 17, 38.57.

Evans County

3 (*945, p. 76; *987, p. 75; 1017, p. 192; 1024, p. 102; 1072, p. 118). City of Claxton. At Claxton, at city waterworks plant, about 300 feet south of Seaboard Air Line Railway. Water levels, in feet below land-surface datum, 1947: Mar. 4, 112.75; June 23, 112.70; Aug. 25, 112.70; Dec. 16, 111.85.

Fulton County

7 (*987, p. 76; 1017, p. 192; 1024, p. 102; 1072, p. 118). City of College Park. In College Park, at base of west side of large steel filter tank, at city waterworks. Water levels, in feet below land-surface datum, 1947: Apr. 17, 37.56; Dec. 22, 37.48.

8 (*987, p. 76; 1017, p. 193; 1024, p. 102; 1072, p. 119). City of College Park. At College Park, about 30 feet north of Oglethorpe Street extended. Water level, in feet below land-surface datum, 1947: Apr. 17, 22.6.

20 (*987, p. 76; 1017, p. 193; 1024, p. 102; 1072, p. 119). City of East Point. At East Point, on Plant Street about 0.1 mile south of Taylor Avenue, 38 feet east of center of street. Water level, in feet below land-surface datum, 1947: Apr. 17, 23.92.

26 (#987, p. 76; 1017, p. 193; 1024, p. 102; 1072, p. 119). O'Neill Bros. At East Point, about 98 feet east of Central of Georgia Railway and 6 feet west of O'Neill Bros. warehouse.

Water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 20.15 | 18.78 | 18.35 | 16.65 | 16.24 | 16.59 | 16.35 | 17.24 | 17.74 | 18.67 | 19.21 | 17.84 |
| 2 | 20.10 | 18.80 | 18.40 | 16.65 | 16.15 | 16.53 | 16.36 | 17.30 | 17.77 | 18.68 | 19.18 | 17.84 |
| 3 | 20.06 | 18.67 | 18.43 | 16.65 | 16.14 | 16.58 | 16.37 | 17.35 | 17.83 | 18.70 | 19.19 | 17.83 |
| 4 | 20.11 | 18.59 | 18.29 | 16.71 | 16.16 | 16.69 | 16.42 | 17.35 | 17.85 | 18.71 | 19.21 | 17.79 |
| 5 | 20.02 | 18.64 | 18.11 | 16.64 | 16.17 | 16.73 | 16.45 | 17.41 | 17.86 | ..... | 19.14 | 17.72 |
| 6 | 20.02 | 18.52 | 17.99 | 16.71 | 16.24 | 16.73 | 16.47 | 17.45 | 17.90 | 18.76 | 19.21 | 17.75 |
| 7 | 20.04 | 18.55 | 17.93 | 16.73 | 16.22 | 16.73 | 16.49 | 17.50 | 17.95 | 18.71 | 19.14 | 17.68 |
| 8 | 20.01 | 18.65 | ..... | 16.65 | 16.31 | 16.75 | 16.49 | 17.50 | 17.99 | 18.75 | 19.10 | 17.70 |
| 9 | 20.05 | 18.66 | ..... | 16.63 | 16.34 | 16.78 | 16.52 | 17.48 | 18.0 | 18.81 | 19.14 | 17.79 |
| 10 | 20.01 | 18.69 | 17.90 | 16.69 | 16.40 | 16.83 | 16.56 | 17.53 | 18.04 | ..... | 19.07 | 17.69 |
| 11 | 19.93 | 18.67 | 17.85 | 16.62 | 16.46 | 16.87 | 16.61 | 17.58 | 18.06 | ..... | 18.66 | 17.63 |
| 12 | 19.91 | 18.65 | 17.81 | 16.65 | 16.43 | 16.87 | 16.64 | 17.35 | 18.07 | ..... | 18.73 | 17.61 |
| 13 | 19.84 | 18.61 | 17.62 | 16.58 | 16.37 | 16.87 | 16.65 | 17.44 | 18.09 | 18.90 | 18.71 | 17.54 |
| 14 | 19.90 | 18.55 | 17.60 | 16.48 | 16.38 | 16.81 | 16.66 | 17.39 | 18.13 | 18.88 | 18.57 | ..... |
| 15 | 19.81 | 18.47 | 17.45 | 16.45 | 16.43 | 16.76 | 16.66 | 17.38 | 18.16 | 18.85 | 18.45 | 17.37 |
| 16 | ..... | 18.50 | 17.36 | 16.31 | 16.47 | 16.70 | 16.68 | 17.43 | 18.21 | 18.92 | 18.43 | ..... |
| 17 | ..... | 18.55 | 17.32 | 16.32 | 16.50 | 16.68 | 16.73 | 17.46 | 18.27 | 18.96 | 18.42 | ..... |
| 18 | ..... | 18.56 | 17.41 | 16.31 | 16.50 | 16.74 | 16.77 | 17.45 | 18.27 | 18.97 | 18.37 | ..... |
| 19 | ..... | 18.57 | 17.21 | 16.25 | 16.52 | 16.74 | 16.76 | 17.47 | 18.26 | 18.96 | 18.30 | ..... |
| 20 | ..... | 18.45 | 16.97 | 16.16 | 16.53 | 16.75 | 16.81 | 17.49 | 18.28 | 19.03 | 18.26 | ..... |
| 21 | ..... | 18.56 | 16.81 | 16.21 | 16.48 | 16.80 | 16.85 | 17.53 | 18.25 | 10.05 | 18.23 | ..... |
| 22 | ..... | 18.51 | 16.84 | 16.31 | 16.57 | 16.63 | 16.88 | 17.53 | 18.18 | 19.07 | 18.13 | 17.17 |
| 23 | 19.01 | 18.37 | ..... | 16.30 | 16.58 | 16.44 | 16.98 | 17.51 | 18.24 | 19.09 | 18.03 | 17.10 |
| 24 | 18.97 | 18.41 | 16.38 | 16.21 | 16.56 | 16.32 | 17.07 | 17.55 | 18.19 | 19.12 | 17.94 | 17.10 |
| 25 | 18.91 | 18.45 | 16.55 | 16.19 | 16.52 | 16.31 | 17.08 | 17.59 | 18.34 | 19.17 | 17.95 | 17.08 |
| 26 | 18.83 | 18.47 | 16.62 | 16.29 | 16.58 | 16.25 | 17.08 | 17.59 | 18.39 | 19.15 | 17.92 | 17.04 |
| 27 | 18.87 | 18.45 | 16.48 | 16.22 | 16.49 | 16.29 | 17.09 | 17.62 | 18.43 | 19.13 | 17.90 | 17.02 |
| 28 | 18.85 | 18.44 | 16.66 | 16.29 | 16.47 | 16.30 | 17.10 | 17.64 | ..... | 19.14 | 17.88 | 17.00 |
| 29 | 18.78 | ..... | 16.61 | 16.28 | 16.43 | 16.33 | 17.13 | 17.69 | ..... | 19.17 | 17.85 | 17.01 |
| 30 | 18.66 | ..... | 16.58 | 16.23 | 16.52 | 16.35 | 17.19 | 17.72 | 18.56 | 19.19 | 17.82 | 17.06 |
| 31 | 18.79 | ..... | 16.68 | ..... | 16.60 | ..... | 17.21 | 17.72 | ..... | 19.21 | ..... | 16.91 |

29 (#987, p. 76; 1017, p. 193; 1024, p. 103; 1072, p. 120). 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. Measurements discontinued.

31 (#987, p. 76; 1017, p. 193; 1024, p. 103; 1072, p. 120). 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, 1947: Apr. 17, 10.82; Dec. 19, 11.95.

32 (#987, p. 77; 1017, p. 193; 1024, p. 103; 1072, p. 120). 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, 1947: Apr. 17, 30.40; Dec. 19, 30.77.

39 (#987, p. 77; 1017, p. 194; 1024, p. 103; 1072, p. 120). Gate City Cotton Mill. At East Point, about 170 feet south of center of Willingham Drive and 50 feet east of cotton mill. Measurements discontinued.

43 (#987, p. 77; 1017, p. 194; 1024, p. 103; 1072, p. 120). 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, 1947: Apr. 17, 18.93; Dec. 19, 19.79.

75 (#1017, p. 194; 1024, p. 103; 1072, p. 120). 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, 1947: Apr. 16, 32.37; Dec. 22, 35.53.

76 (#987, p. 77; 1017, p. 194; 1024, p. 103; 1072, p. 120). 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 level, in feet below land-surface datum, 1947: Apr. 16, 40.99.

77 (#987, p. 77; 1017, p. 194; 1024, p. 103; 1072, p. 120). 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 level, in feet below land-surface datum, 1947: Apr. 16, 20.9.

82 (#987, p. 77; 1017, p. 194; 1024, p. 103; 1072, p. 120). 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. Measurements discontinued.

Glynn County

1 (#907, p. 51; #937, p. 55; 945, p. 76; #987, p. 77; 1017, p. 194; 1024, p. 103; 1072, p. 120). Atlantic Refining Co. well 1. In 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 1947.

3 (#845, p. 54; 886, p. 78; 907, p. 51; #937, p. 56; 945, p. 77; #987, p. 77; 1017, p. 194; 1024, p. 103; 1072, p. 120). Atlantic Refining Co. well 3. At Arco, about 1 mile north of Brunswick, about 1,100 feet southwest of office of Atlantic Refining Co.

High and low daily water levels, in feet
above land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|------|----------|------|-------|------|-------|------|------|------|------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 26.2 | 25.8 | 25.8 | 25.3 | 26.8 | 25.8 | 30.3 | 30.3 | 28.3 | 26.4 | 27.1 | 26.4 |
| 2 | 26.4 | 25.7 | 25.8 | 25.3 | 26.9 | 25.9 | 31.8 | 30.3 | 28.0 | 26.8 | .... | .... |
| 3 | 26.6 | 25.8 | 25.8 | 25.3 | 26.3 | 25.8 | 31.9 | 30.8 | 27.6 | 26.8 | .... | .... |
| 4 | 26.8 | 25.8 | 26.5 | 25.6 | 26.6 | 25.8 | 30.9 | 28.3 | 27.8 | 26.6 | 26.8 | 26.4 |
| 5 | 26.8 | 25.8 | 26.1 | 24.6 | 26.8 | 25.8 | 28.5 | 27.8 | 27.8 | 26.7 | 26.8 | 26.4 |
| 6 | 26.6 | 24.8 | 26.8 | 25.3 | 26.9 | 26.2 | 28.3 | 27.1 | 27.6 | 26.6 | 26.8 | 26.3 |
| 7 | 26.4 | 25.0 | 26.8 | 25.8 | 27.0 | 26.1 | 27.9 | 26.8 | 27.8 | 26.8 | 27.2 | 26.4 |
| 8 | 26.7 | 25.8 | 26.8 | 25.8 | 27.1 | 26.2 | 28.4 | 26.7 | 27.5 | 26.5 | 27.8 | 26.5 |
| 9 | .... | .... | 25.8 | 25.0 | 26.8 | 26.0 | 28.2 | 27.0 | 26.8 | 26.3 | 27.8 | 26.6 |
| 10 | .... | .... | 25.6 | 24.3 | 26.7 | 25.8 | 28.0 | 26.8 | 26.8 | 26.2 | 26.8 | 26.0 |
| 11 | .... | .... | 24.9 | 23.1 | 26.6 | 25.8 | 27.9 | 26.9 | 26.8 | 26.2 | 26.8 | 26.3 |
| 12 | .... | .... | 25.7 | 23.8 | 26.4 | 25.8 | 27.8 | 26.5 | 26.8 | 26.2 | 26.8 | 26.3 |
| 13 | .... | .... | 25.8 | 25.3 | 26.7 | 25.9 | 27.8 | 26.8 | 27.1 | 26.1 | 26.8 | 26.3 |
| 14 | .... | .... | 25.8 | 25.6 | 26.7 | 25.9 | 27.4 | 26.7 | 27.8 | 26.3 | 27.3 | 26.5 |
| 15 | .... | 25.5 | 26.4 | 25.7 | 26.0 | 26.0 | 27.1 | 26.7 | 27.7 | 26.5 | 27.1 | 26.6 |
| 16 | 26.8 | 25.4 | 26.7 | 25.8 | 26.7 | 26.1 | 27.3 | 26.7 | 27.8 | 26.4 | 26.9 | 26.3 |
| 17 | 26.6 | 25.0 | 26.5 | 25.8 | 28.0 | 26.0 | 27.2 | 26.2 | 27.8 | 26.4 | 27.1 | 26.0 |
| 18 | 26.2 | 25.6 | 27.4 | 25.8 | 29.5 | 28.0 | 26.8 | 26.1 | 27.8 | 26.6 | 26.9 | 26.3 |
| 19 | 26.4 | 25.8 | 26.8 | 26.0 | 30.7 | 29.3 | 27.2 | 26.0 | 27.8 | 26.8 | 26.8 | 26.2 |
| 20 | 26.6 | 25.6 | 26.8 | 26.0 | 30.8 | 30.0 | 27.4 | 26.3 | 27.8 | 26.8 | 26.8 | 26.0 |
| 21 | 25.8 | 24.5 | 26.4 | 25.8 | 30.4 | 29.1 | 27.4 | 26.5 | 27.8 | 26.8 | 26.8 | 26.0 |
| 22 | 26.2 | 24.1 | 26.4 | 25.7 | 28.8 | 28.0 | 27.1 | 26.2 | 27.6 | 26.8 | 26.9 | 26.0 |
| 23 | 26.0 | 24.7 | 26.7 | 25.8 | 28.1 | 27.5 | 26.9 | 26.2 | 27.4 | 26.8 | 26.8 | 26.0 |
| 24 | 26.0 | 25.0 | 26.7 | 25.8 | 28.2 | 27.4 | 27.6 | 26.3 | 27.6 | 26.7 | 26.8 | 25.8 |
| 25 | 26.0 | 25.7 | 26.2 | 25.7 | 28.0 | 26.8 | 27.8 | 26.6 | 27.8 | 26.8 | 26.8 | 26.2 |
| 26 | 26.8 | 25.8 | 26.3 | 25.7 | 27.1 | 26.5 | 27.8 | 26.5 | 27.3 | 26.5 | 26.8 | 26.2 |
| 27 | 26.7 | 25.0 | 26.3 | 25.8 | 26.8 | 26.2 | 27.6 | 26.8 | 27.3 | 26.4 | 26.8 | 26.2 |
| 28 | 26.3 | 24.7 | 26.6 | 25.8 | 27.0 | 26.0 | 27.4 | 26.4 | 27.2 | 26.5 | 26.8 | 26.2 |
| 29 | 26.7 | 25.3 | .... | .... | 26.8 | 26.0 | 27.6 | 26.6 | 27.4 | 26.4 | 26.8 | 26.2 |
| 30 | 26.8 | 25.3 | .... | .... | .... | .... | 27.8 | 26.4 | 27.3 | 26.5 | 26.8 | 25.8 |
| 31 | 25.9 | 24.8 | .... | .... | .... | .... | .... | .... | 26.8 | 26.3 | .... | .... |

3--Continued.

High and low daily water levels, in feet
above land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | November | | December | |
|-----|------|------|--------|------|-----------|------|---------|------|----------|------|----------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 26.8 | 26.1 | 26.7 | 26.0 | .... | .... | 25.4 | 24.0 | 25.6 | 24.6 | 26.8 | 26.0 |
| 2 | 26.8 | 26.2 | 26.7 | 26.2 | .... | .... | 25.4 | 24.8 | 26.5 | 24.8 | 26.8 | 26.0 |
| 3 | 26.8 | 26.3 | .... | .... | .... | .... | 25.5 | 23.8 | 25.8 | 24.8 | 26.8 | 26.0 |
| 4 | 27.0 | 26.6 | .... | .... | .... | .... | 25.1 | 23.8 | 26.1 | 25.4 | 26.8 | 26.0 |
| 5 | 26.9 | 26.6 | .... | .... | .... | .... | 25.5 | 24.3 | 26.3 | 25.8 | 26.8 | 26.2 |
| 6 | 26.9 | 26.3 | 26.5 | 25.8 | .... | .... | 25.8 | 24.6 | 26.4 | 25.6 | 27.4 | 26.7 |
| 7 | 26.8 | 26.2 | 26.2 | 25.7 | .... | .... | 25.8 | 23.8 | 25.9 | 25.7 | 27.8 | 26.8 |
| 8 | 26.8 | 26.2 | 26.3 | 25.7 | .... | .... | 25.6 | 23.8 | 26.1 | 25.7 | 27.4 | 26.6 |
| 9 | 26.8 | 26.3 | 26.4 | 25.8 | .... | .... | 25.7 | 24.2 | 26.2 | 25.6 | 27.1 | 26.6 |
| 10 | 26.8 | 26.1 | 26.5 | 25.9 | .... | .... | 25.8 | 23.8 | 26.2 | 25.6 | 27.1 | 26.8 |
| 11 | 26.6 | 26.0 | 26.5 | 25.9 | .... | .... | 25.6 | 23.8 | 26.6 | 25.8 | 28.1 | 26.8 |
| 12 | 26.8 | 26.1 | .... | .... | .... | .... | 25.8 | 24.0 | 26.6 | 25.8 | 27.8 | 26.8 |
| 13 | 26.6 | 25.9 | .... | .... | .... | .... | 25.8 | 25.2 | 26.6 | 25.8 | 27.6 | 27.0 |
| 14 | 26.6 | 25.8 | .... | .... | .... | .... | 26.0 | 25.4 | 26.8 | 25.9 | 27.6 | 27.0 |
| 15 | 26.3 | 25.2 | .... | .... | .... | .... | 27.6 | 25.6 | 26.9 | 26.3 | 27.8 | 27.0 |
| 16 | 26.6 | 24.8 | .... | .... | .... | .... | 27.7 | 25.8 | 26.8 | 26.3 | 27.2 | 26.8 |
| 17 | 26.2 | 24.8 | .... | .... | .... | .... | 25.8 | 25.4 | 26.6 | 26.3 | 27.0 | 26.8 |
| 18 | 26.3 | 24.7 | .... | .... | .... | .... | 25.6 | 25.1 | 26.8 | 26.4 | 26.8 | 26.6 |
| 19 | 26.8 | 25.8 | .... | .... | .... | .... | 25.8 | 25.2 | 26.8 | 26.3 | 27.0 | 26.6 |
| 20 | 26.8 | 26.1 | .... | .... | .... | .... | 25.8 | 24.4 | 26.6 | 26.0 | 27.4 | 26.8 |
| 21 | 26.8 | 25.3 | .... | .... | .... | .... | 25.5 | 23.8 | 26.3 | 25.8 | 27.4 | 26.8 |
| 22 | 26.6 | 25.3 | .... | .... | .... | .... | 25.0 | 23.8 | 26.6 | 26.0 | 26.8 | 26.5 |
| 23 | 26.6 | 24.9 | .... | .... | .... | .... | 25.2 | 24.1 | 26.8 | 26.3 | 26.9 | 26.7 |
| 24 | 26.1 | 24.8 | .... | .... | .... | .... | 25.7 | 23.9 | 26.8 | 26.3 | 30.7 | 26.8 |
| 25 | 26.2 | 25.8 | .... | .... | .... | .... | 25.6 | 24.3 | 26.8 | 26.3 | 31.4 | 30.6 |
| 26 | 26.8 | 25.8 | .... | .... | .... | .... | 25.8 | 24.8 | 27.0 | 26.4 | 31.8 | 30.8 |
| 27 | 26.8 | 26.2 | .... | .... | 25.8 | 25.2 | 26.8 | 24.7 | 26.8 | 26.3 | 32.1 | 31.6 |
| 28 | 26.8 | 26.3 | .... | .... | 25.8 | 25.1 | 25.8 | 24.8 | 26.6 | 26.0 | 32.8 | 31.8 |
| 29 | 26.8 | 26.1 | .... | .... | 25.8 | 24.1 | 25.8 | 24.8 | 26.7 | 25.9 | 32.9 | 31.8 |
| 30 | 26.7 | 26.1 | .... | .... | 25.5 | 24.0 | 25.8 | 24.7 | 26.8 | 25.9 | 32.0 | 29.8 |
| 31 | 26.6 | 26.1 | .... | .... | .... | .... | 25.6 | 24.4 | .... | .... | 29.8 | 28.8 |

13 (*907, p. 51; *937, p. 56; 945, p. 77; *987, p. 78; 1017, p. 195; 1024, p. 104; 1072, p. 121). U. S. Dept. of Commerce. On St. Simon Island, at lighthouse. Water level affected by tide. Water levels, in feet above land-surface datum, 1947: Mar. 7, 34.12; June 25, 33.35; Dec. 7, 35.53.

33 (*886, p. 73; 907, p. 51; *937, p. 56; 945, p. 77; *987, p. 78; 1017, p. 195; 1024, p. 104; 1072, p. 121). On Lanier Island, at Sea Island Yacht Club, on west bank of Frederica River, south of causeway. Measurements discontinued.

37 (*937, p. 56; 945, p. 77; *987, p. 79; 1017, p. 195; 1024, p. 105; 1072, p. 122). F. G. Horne. St. Simon Island, about 0.25 mile south of Fort Frederica. Water levels, in feet above land-surface datum, 1947: Mar. 7, 30.10; June 26, 30.09; Dec. 7, 31.10.

44 (*886, p. 78; 907, p. 51; *937, p. 56; 945, p. 77; *987, p. 79; 1017, p. 195; 1024, p. 105; 1072, p. 122). Sea Island Co. On St. Simon Island, on north side of Sea Island road, 0.5 mile west of Cloister Hotel at Gun Club. Water level affected by tide.

Water level, in feet, 1947

| 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. 7 | 11:40 a.m. | +1.25 | 36.18 |
| June 26 | 10:18 a.m. | -.55 | 35.93 |
| Dec. 7 | 4:15 p.m. | +3.62 | 37.72 |

45 (*907, p. 52; *937, p. 56; 945, p. 77; *987, p. 79; 1017, p. 195; 1024, p. 105; 1072, p. 122). City of Brunswick. In northeastern part of city, in H. E. Coffin Park. No measurements made in 1947.

63 (*945, p. 78; *987, p. 79; 1017, p. 195; 1024, p. 105; 1072, p. 122). 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, 1947: Mar. 7, 16.87; Aug. 28, 16.66; Dec. 8, 18.05.

100 (*886, p. 78; 907, p. 52; *937, p. 57; 945, p. 78; *987, p. 79; 1017, p. 196; 1024, p. 105; 1072, p. 122). 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, 1947: Mar. 7, 20.0; June 26, 20.4; Aug. 27, 19.8; Dec. 8, 20.81.

128 (*937, p. 57; 945, p. 78; *987, p. 79; 1017, p. 196; 1024, p. 105; 1072, p. 122). A. C. Harrison. In Thalman, about 0.1 mile south of crossing of Seaboard Air Line Railway and Atlanta, Birmingham & Coast Railway. Water levels, in feet above land-surface datum, 1947: Mar. 7, 33.1; Aug. 28, 32.78; Dec. 8, 33.84.

138 (*886, p. 78; 907, p. 52; *937, p. 57; 945, p. 78; *987, p. 79; 1017, p. 196; 1024, p. 105; 1072, p. 122). G. F. Cowman. About 300 feet south of marsh edge of South Brunswick River, east side of U. S. Highway 17. Water levels, in feet above land-surface datum, 1947: Mar. 7, 32.79; June 26, 33.27; Aug. 28, 33.0; Dec. 7, 34.78.

143 (*907, p. 52; *937, p. 57; 945, p. 78; *987, p. 80; 1017, p. 196; 1024, p. 105; 1072, p. 122). J. F. McKee. On St. Simon Island, about 0.5 mile east of Frederica road, 0.4 mile north of Sea Island road at Black Banks. No measurements made in 1947.

192 (*907, p. 52; *937, p. 57; 945, p. 78; *987, p. 80; 1017, p. 196; 1024, p. 105; 1072, p. 122). 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, 1947: Mar. 7, 21.43; June 26, 21.01; Aug. 27, 20.77; Dec. 7, 22.55.

207 (*987, p. 80; 1017, p. 196; 1024, p. 105; 1072, p. 122). 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. Measurements discontinued.

Henry County

11 (*987, p. 80; 1017, p. 196; 1024, p. 105; 1072, p. 122). D. J. Arnold. At Hampton, about 70 feet west of center of U. S. Highway 41 and 6 feet south of wooden shed.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Jan. 10 | 28.60 | Mar. 8 | 28.00 | Apr. 22 | 26.87 | June 23 | 26.48 |
| 23 | 28.50 | 26 | 27.46 | May 15 | 26.52 | Aug. 24 | 27.06 |
| Feb. 13 | 28.09 | Apr. 8 | 27.22 | 30 | 26.54 | Dec. 19 | 27.99 |

Liberty County

18 (#937, p. 57; 945, p. 78; #987, p. 80; 1017, p. 196; 1024, p. 106; 1072, p. 123). E. P. Way. In McIntosh, about 0.25 mile northwest of Atlantic Coast Line Railroad on southwest side of State Highway 38. Measurements discontinued.

19 (#907, p. 52; #937, p. 58; 945, p. 78; #987, p. 80; 1017, p. 196; 1024, p. 106; 1072, p. 123). 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, 1947: Mar. 6, 3.04; June 25, 2.53; Aug. 26, 3.06; Dec. 9, 2.82.

28 (#945, p. 78; #987, p. 80; 1017, p. 196; 1024, p. 106; 1072, p. 123). Midway Church. In Midway, in front of Midway Church at north-east corner of intersection of U. S. Highway 17 and road to Colonels Island. Water levels, in feet above land-surface datum, 1947: Mar. 6, 9.42; June 25, 9.07; Aug. 26, 8.40; Dec. 9, 9.49.

36 (#907, p. 52; #937, p. 58; 945, p. 78; #987, p. 80; 1017, p. 196; 1024, p. 106; 1072, p. 123). W. M. Woods. Dorchester Station, about 0.1 mile east of Seaboard Air Line Railway station, on north side of Sunbury road. Measurements discontinued.

38 (#907, p. 52; #937, p. 58; 945, p. 78; #987, p. 81; 1017, p. 196; 1024, p. 106; 1072, p. 123). Dana Stevens. About 0.4 mile south of Dorchester Village schoolhouse. Water level, in feet below land-surface datum, 1947: Mar. 6, 8.68.

43 (#907, p. 53; #937, p. 58; 945, p. 79; #987, p. 81; 1017, p. 197; 1024, p. 106; 1072, p. 123). 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, 1947: Mar. 6, 3.86; Dec. 9, 4.04.

45 (#907, p. 53; #937, p. 58; 945, p. 79; #987, p. 81; 1017, p. 197; 1024, p. 106; 1072, p. 123). E. P. Way. In Sunbury, 0.3 mile north of Fort Morris. Water levels, in feet above land-surface datum, 1947: Mar. 6, 5.78; Aug. 27, 4.7; Dec. 9, 4.8.

53 (#886, p. 79; 907, p. 53; #937, p. 58; 945, p. 79; #987, p. 81; 1017, p. 197; 1024, p. 106; 1072, p. 123). 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, 1947: Mar. 6, 26.6; June 25, 25.96; Aug. 27, 25.6; Dec. 9, 26.65.

75 (#937, p. 58; 945, p. 79; #987, p. 81; 1017, p. 197; 1024, p. 106; 1072, p. 123). 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, 1947: Mar. 6, 22.25; June 23, 22.61; Aug. 27, 22.15; Dec. 9, 22.39.

95 (#937, p. 58; 945, p. 79; #987, p. 81; 1017, p. 197; 1024, p. 106; 1072, p. 123). W. M. S. Howard. On Colonels Island, in northwestern part, near marsh. Water levels, in feet above land-surface datum, 1947: Mar. 6, 15.54; June 25, 15.40; Aug. 27, 14.20; Dec. 9, 14.81.

137 (#907, p. 53; #937, p. 59; 945, p. 79; #987, p. 81; 1017, p. 197; 1024, p. 106; 1072, p. 123). H. A. Bacon. In Hinesville, about 0.5 mile northeast of Liberty County courthouse, along State Highway 38, on north side of highway. Water levels, in feet with reference to land-surface datum, 1947: Mar. 6, +0.47; June 25, +0.18; Aug. 26, -0.43; Dec. 9, +0.05.

140 (#907, p. 53; #937, p. 59; 945, p. 79; #987, p. 81; 1017, p. 197; 1024, p. 106; 1072, p. 124). Mrs. Amber Kiddy. In Allenhurst, about 0.1 mile southeast of Atlantic Coast Line Railroad, at site of old sawmill. Measurements discontinued.

170 (#937, p. 59; 945, p. 79; #987, p. 81; 1017, p. 197; 1024, p. 107; 1072, p. 124). 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, 1947: Mar. 6, 14.17; June 25, 14.26; Aug. 26, 14.25; Dec. 9, 14.93.

177 (#987, p. 82; 1017, p. 197; 1024, p. 107; 1072, p. 124). 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, 1947: Mar. 6, 12.10; June 25, 12.27; Aug. 27, 11.33; Dec. 9, 10.82.

Long County

8 (#907, p. 53; #937, p. 59; 945, p. 79; #987, p. 82; 1017, p. 197; 1024, p. 107; 1072, p. 124). Town of Ludowici. About 100 feet northwest of Atlantic Coast Line Railroad. Water levels, in feet below land-surface datum, 1947: Mar. 6, 10.78; Dec. 9, 11.50.

McIntosh County

11 (#886, p. 79; 907, p. 53; #937, p. 59; 945, p. 80; #987, p. 82; 1017, p. 197; 1024, p. 107; 1072, p. 124). C. A. Stebbins. In 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, 1947: Mar. 7, 8.89; Aug. 27, 7.50; Dec. 9, 8.63.

14 (#937, p. 59; 945, p. 80; #987, p. 82; 1017, p. 197; 1024, p. 107; 1072, p. 124). C. H. Stebbins. In South Newport, northeast of intersection of U. S. Highway 17 and Harris Neck road. Water levels, in feet above land-surface datum, 1947: Mar. 6, 19.28; Dec. 9, 19.12.

22 (#937, p. 60; 945, p. 80; #987, p. 82; 1017, p. 198; 1024, p. 107; 1072, p. 124). D. E. McDonald. In Fulonia, on west side of U. S. Highway 17, about 0.25 mile south of road to Townsend. Water level, in feet above land-surface datum, 1947: Mar. 6, 19.49.

25 (#937, p. 60; 945, p. 80; #987, p. 82; 1017, p. 198; 1024, p. 107; 1072, p. 124). A. D. Evrns. In Crescent, on south side of State Highway 131, a short distance southeast of post office. No measurements made in 1947.

27 (#907, p. 54; #937, p. 60; 945, p. 80; #987, p. 82; 1017, p. 198; 1024, p. 107; 1072, p. 124). G. B. Mallard. On east side of State Highway 131, about 0.4 mile south of right-angled bend in road near Crescent, near bluff on south branch of Sapelo River. Water levels, in feet above land-surface datum, 1947: Mar. 7, 8:15 a.m., 6.65; June 26, 7:25 a.m., 6.88; Aug. 27, 2:30 p.m., 6.23; Dec. 9, 7:26 a.m., 6.62.

38 (#937, p. 60; 945, p. 80; #987, p. 82; 1017, p. 198; 1024, p. 107; 1072, p. 124). E. P. Maggioni & Co. At Harris Neck, on west bank of Barbours Island River, southeast of Harris Neck airport. Measurements discontinued.

43 (#937, p. 60; 945, p. 80; #987, p. 82; 1017, p. 198; 1024, p. 107; 1072, p. 124). Shellman Bluff public well. At Shellman Bluff, between houses of Mallard Jones and Doby Hamons. Water level, in feet above land-surface datum, 1947: Mar. 6, 18.51.

45 (#937, p. 60; 945, p. 80; #987, p. 83; 1017, p. 198; 1024, p. 107; 1072, p. 124). New Masonic Lodge. 0.5 mile south of Shellman Bluff. Water level, in feet above land-surface datum, 1947: Mar. 6, 4.08.

53 (*907, p. 54; *937, p. 60; 945, p. 80; *987, p. 83; 1017, p. 198; 1024, p. 107; 1072, p. 125). Townsend Band Mill. In Townsend, about 300 feet east of Seaboard Air Line Railway, north of Townsend on Eulonia road. Water levels, in feet above land-surface datum, 1947: Mar. 6, 22.21; Aug. 27, 23.90; Dec. 8, 24.68.

85 (*907, p. 54; *937, p. 60; 945, p. 80; *987, p. 83; 1017, p. 198; 1024, p. 107; 1072, p. 125). 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, 1947: Mar. 7, 3.55; Aug. 27, 3.92; Dec. 9, 3.66.

103 (*907, p. 54; *937, p. 60; 945, p. 80; *987, p. 83; 1017, p. 198; 1024, p. 108; 1072, p. 125). A. M. Durant. At Valona, east side of owner's residence. Water levels, in feet above land-surface datum, 1947: Mar. 7, 24.55; Dec. 9, 24.19.

130 (*907, p. 54; *937, p. 60; 945, p. 80; *987, p. 83; 1017, p. 198; 1024, p. 108; 1072, p. 125). James O'Brien Estate. In Ridgeville, on east side of State Highway 131, half a mile south of road to dock. Water levels, in feet above land-surface datum, 1947: Mar. 7, 16.39; Dec. 9, 16.72.

141 (*907, p. 54; *937, p. 61; 945, p. 80; *987, p. 83; 1017, p. 198; 1024, p. 108; 1072, p. 125). Sam Gardner. About 6 miles southeast of Townsend, on east side of Briardam road. Water levels, in feet above land-surface datum, 1947: Mar. 6, 18.09; Dec. 8, 20.36.

144 (*907, p. 54; *937, p. 61; 945, p. 80; *987, p. 83; 1017, p. 198; 1024, p. 108; 1072, p. 125). Col. Talbot Smith. About 1.5 miles north-east of Darien, about 0.25 mile east of State Highway 131, near marsh. Water levels, in feet above land-surface datum, 1947: Mar. 7, 20.82; June 26, 20.89; Aug. 27, 20.89; Dec. 9, 21.42.

180 (*987, p. 83; 1017, p. 198; 1024, p. 108; 1072, p. 125). 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, 1947: Mar. 6, 22.47; June 26, 22.27; Aug. 27, 23.26; Dec. 9, 22.34.

Mitchell County

9 (*987, p. 83; 1017, p. 198; 1024, p. 108; 1072, p. 125). City of Camilla. In 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. No measurements made in 1947.

Montgomery County

1 (*945, p. 81; *987, p. 84; 1017, p. 199; 1024, p. 108; 1072, p. 125). H. V. Thompson. In Ailey, about 0.25 mile southeast of Seaboard Air Line Railway station, about 200 feet south of railway. No measurements made in 1947.

Pierce County

2 (*907, p. 54; *937, p. 61; 945, p. 81; *987, p. 85; 1017, p. 199; 1024, p. 108; 1072, p. 125). 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, 1947: Mar. 8, 62.0; June 27, 59.50; Aug. 29, 61.32; Dec. 8, 57.08.

5 (*937, p. 61; 945, p. 81; *987, p. 85; 1017, p. 200; 1024, p. 108; 1072, p. 125). Town of Patterson. In Patterson, about 140 feet east of Atlantic Coast Line Railroad station. Water levels, in feet below land-surface datum, 1947: Mar. 8, 32.72; June 27, 32.70; Dec. 8, 30.71.

Screven County

3 (#987, p. 85; 1017, p. 200; 1024, p. 108; 1072, p. 126). City of Sylvania. In Sylvania, 0.1 mile west of State Highway 21, at water works plant. Water level, in feet below land-surface datum, 1947: Mar. 3, 107.95.

8 (#987, p. 85; 1017, p. 200; 1024, p. 109; 1072, p. 126). W. W. Yant. In Dover, on southwest side of Central of Georgia Railway. No measurements made in 1947.

Spalding County

12 (#987, p. 85; 1017, p. 200; 1024, p. 109; 1072, p. 126). Georgia State Experiment Station. At Experiment, about 240 feet west of Central of Georgia Railway and 15 feet northeast of northeast corner of Flynt Building.

Water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 18.81 | 15.84 | ..... | 12.52 | 11.71 | ..... | 12.20 | 13.98 | 14.52 | 16.0 | 16.94 | 14.83 |
| 2 | 18.10 | 15.85 | ..... | 12.32 | ..... | 12.94 | 12.21 | 14.08 | 14.54 | 16.01 | 16.91 | 14.81 |
| 3 | 18.74 | 15.74 | 15.60 | 12.48 | ..... | 12.98 | 12.24 | 14.18 | 14.63 | 16.08 | 16.94 | 14.77 |
| 4 | 18.80 | 15.48 | 15.64 | 12.55 | 11.70 | 13.11 | 12.30 | 14.30 | 14.67 | 16.11 | 17.0 | 14.71 |
| 5 | 18.76 | 15.61 | 15.60 | 12.48 | 11.69 | 13.17 | 12.35 | 14.27 | 14.67 | 16.14 | 16.91 | 14.62 |
| 6 | 18.76 | 15.54 | 15.28 | 12.55 | 11.75 | 13.17 | 12.36 | 14.36 | 14.73 | 16.13 | 16.99 | 14.63 |
| 7 | 18.75 | ..... | 15.10 | 12.59 | 11.73 | 13.20 | 12.34 | 14.43 | 14.80 | 16.07 | 16.91 | 14.61 |
| 8 | 18.71 | ..... | 14.16 | 12.51 | 11.88 | 13.22 | 12.36 | 14.47 | 14.85 | 16.14 | 16.94 | 14.53 |
| 9 | 18.74 | ..... | 13.96 | 12.46 | 11.93 | 13.27 | 12.44 | 14.39 | 14.87 | 16.25 | 17.01 | 14.67 |
| 10 | 18.74 | 15.76 | 13.90 | 12.55 | 12.01 | 13.35 | 12.51 | 14.39 | 14.93 | 16.31 | 16.93 | 14.59 |
| 11 | 18.63 | 15.69 | 13.77 | 12.48 | 12.10 | 13.40 | 12.59 | 14.47 | 14.97 | 16.35 | 16.62 | 14.57 |
| 12 | 18.54 | 15.69 | 13.66 | 12.53 | 12.08 | 13.41 | 12.66 | ..... | 14.93 | 16.41 | 16.66 | 14.55 |
| 13 | 18.55 | 15.66 | 13.38 | 12.52 | 12.02 | 13.45 | 12.72 | ..... | 15.04 | 16.53 | 16.61 | 14.45 |
| 14 | 18.51 | 15.56 | 13.22 | 12.45 | 13.06 | 13.46 | 12.76 | ..... | 15.09 | 16.49 | 16.43 | 14.36 |
| 15 | 18.42 | 15.50 | 13.07 | 12.29 | 12.15 | 13.53 | 12.82 | ..... | 15.14 | 16.45 | 16.18 | 14.06 |
| 16 | 18.31 | 15.55 | 12.93 | 11.96 | 12.22 | 13.56 | 12.86 | 14.46 | 15.20 | 16.52 | 16.14 | 14.10 |
| 17 | 18.25 | 15.63 | 12.83 | 11.82 | 12.30 | 13.57 | 12.96 | 14.47 | 15.32 | 16.64 | 16.04 | 13.95 |
| 18 | 18.14 | 15.63 | 12.91 | 11.76 | 12.32 | 13.65 | 13.07 | 14.42 | 15.33 | 16.65 | 15.90 | 13.75 |
| 19 | 17.97 | 15.61 | 12.73 | 11.59 | 12.35 | 13.68 | 13.07 | 14.36 | 15.33 | 16.67 | 15.75 | 13.63 |
| 20 | 17.56 | 15.48 | 12.70 | 11.44 | 12.39 | 13.70 | 13.16 | 14.36 | 15.38 | 16.56 | 15.68 | 13.53 |
| 21 | 17.47 | 15.67 | 12.66 | 11.40 | 12.38 | 13.63 | 13.23 | 14.39 | 15.39 | 16.59 | 15.55 | 13.35 |
| 22 | 17.23 | 15.69 | ..... | 11.51 | 12.54 | 13.36 | 13.29 | 14.37 | 15.45 | 16.61 | 15.36 | 13.31 |
| 23 | 16.86 | 15.51 | ..... | 11.59 | 12.61 | 12.96 | 13.47 | 14.33 | 15.56 | 16.63 | 15.17 | 13.21 |
| 24 | 16.12 | 15.59 | 12.30 | 11.52 | 12.61 | 12.66 | 13.60 | 14.36 | 15.51 | 16.65 | 15.0 | 13.22 |
| 25 | 16.12 | 15.64 | 12.51 | 11.47 | 12.58 | 12.51 | 13.64 | 14.38 | 15.70 | 16.71 | 15.01 | 13.15 |
| 26 | 16.11 | 15.65 | 12.54 | 11.59 | 12.69 | 12.35 | 13.66 | 14.37 | 15.78 | 16.71 | 14.95 | 13.08 |
| 27 | 16.11 | 15.63 | 12.50 | 11.61 | 12.73 | 12.29 | 13.71 | 14.40 | 15.85 | 16.85 | 14.95 | 13.02 |
| 28 | 16.04 | 15.57 | 12.52 | 11.66 | 12.74 | 12.26 | 13.75 | 14.42 | 15.85 | 16.86 | 14.93 | 12.92 |
| 29 | 15.92 | ..... | ..... | 11.68 | 12.74 | 12.25 | 13.79 | 14.48 | 15.85 | 16.90 | 14.94 | 12.91 |
| 30 | 15.77 | ..... | ..... | 11.66 | 12.84 | 12.24 | 13.89 | 14.50 | 15.87 | 16.92 | 14.84 | 12.91 |
| 31 | 15.85 | ..... | 12.54 | ..... | ..... | ..... | 13.96 | 14.51 | ..... | 16.94 | ..... | 12.85 |

Ware County

6 (#945, p. 81; #987, p. 86; 1017, p. 201; 1024, p. 110; 1072, p. 127). 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 50, along State Highway 177, near elevated tank. No measurements made in 1947.

Wayne County

1 (*907, p. 54; *937, p. 61; 945, p. 81; *987, p. 86; 1017, p. 201; 1024, p. 110; 1072, p. 127). City of Jesup. In Jesup, west of crossing of Southern Railway and Atlantic Coast Line Railroad. No measurements made in 1947.

3 (*907, p. 55; *937, p. 61; 945, p. 81; *987, p. 86; 1017, p. 201; 1024, p. 110; 1072, p. 127). 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, 1947: Feb. 11, 3.78; June 27, 3.55; Aug. 29, 3.87; Dec. 8, 2.72.

4 (*907, p. 55; *937, p. 61; 945, p. 81; *987, p. 86; 1017, p. 201; 1024, p. 110; 1072, p. 127). 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, 1947: Mar. 8, 4.81; June 27, 4.65; Aug. 28, 4.3; Dec. 8, 5.05.

10 (*937, p. 61; 945, p. 81; *987, p. 86; 1017, p. 201; 1024, p. 110; 1072, p. 127). Town of Screven. Screven, about 600 feet west of Atlantic Coast Line Railroad station. Water levels, in feet below land-surface datum, 1947: Mar. 8, 56.99; Dec. 8, 55.43.

KENTUCKY

By M. I. Rorabaugh and E. A. Bell

PROGRAM OF WORK

The investigation of the ground-water resources of the Louisville area was continued in 1947 in cooperation with Jefferson County and the city of Louisville. This investigation, which was begun in 1943 because of a critical shortage of ground water for industrial use, was continued so that records of pumpage and water level would be available to prevent a recurrence of a critical shortage.

The investigation of the ground-water resources northeast of Louisville, begun in 1945 in cooperation with the Louisville Water Company, was continued in 1947. Studies in this area include appraisal of the supplies available by induced infiltration from the Ohio River.

The program, begun in 1945 to investigate the ground-water supplies of Bourbon, Fayette, Jessamine, and Scott Counties in central Kentucky, was continued in 1947 in cooperation with the Geological Division of the Department of Mines and Minerals.

A reconnaissance survey of ground-water problems of the State, which was started in 1946, was continued in cooperation with the Geological Division of the Department of Mines and Minerals.

As part of the work in the Louisville area, water-level measurements were made in 131 wells. Observations were made in all wells monthly and more frequently during river floods. Additional observations were made in connection with pumping tests. Automatic water-stage recorders (float type) were maintained on 4 wells during the entire year and on 16 wells during part of the year. A total of 142 months of automatic record and 1,295 water-level measurements were obtained during the year.

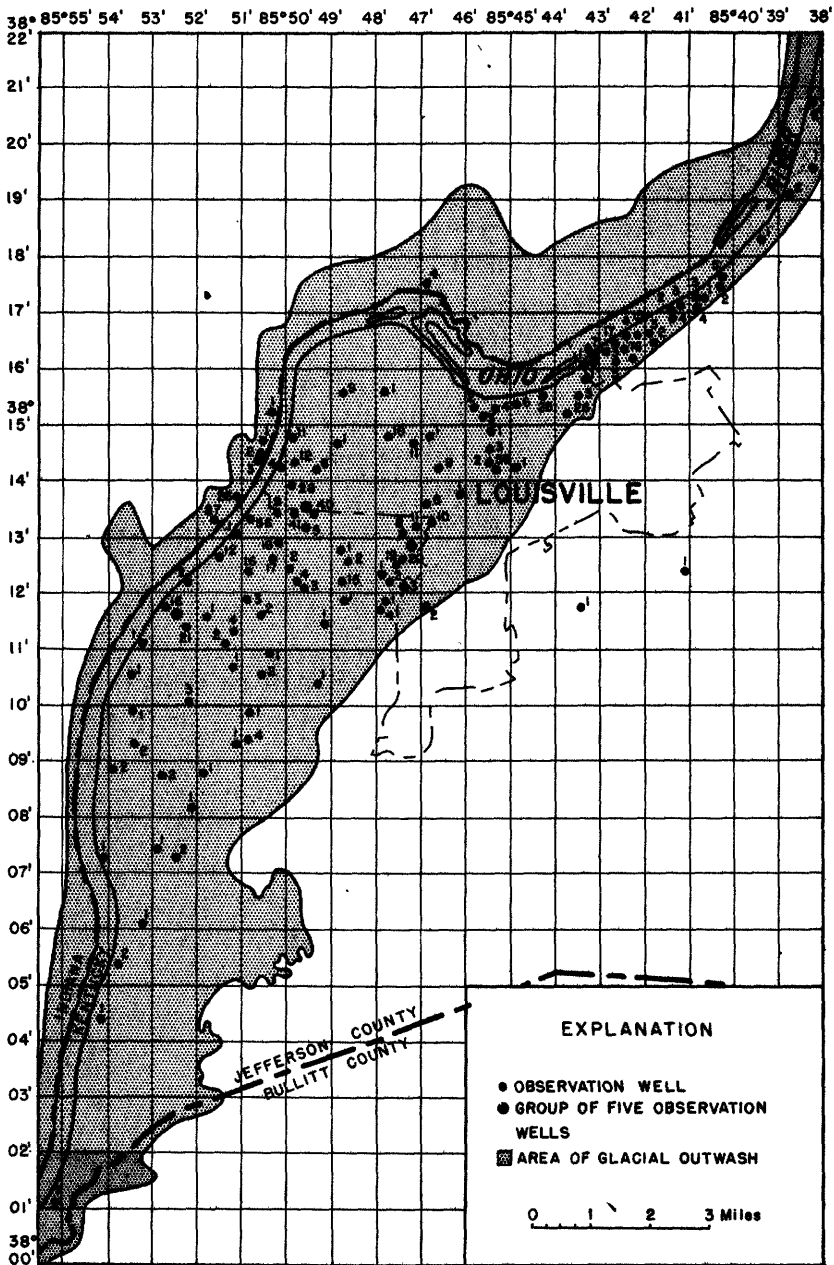


Figure 7.--Map showing location of observation wells in the Louisville area, Kentucky.

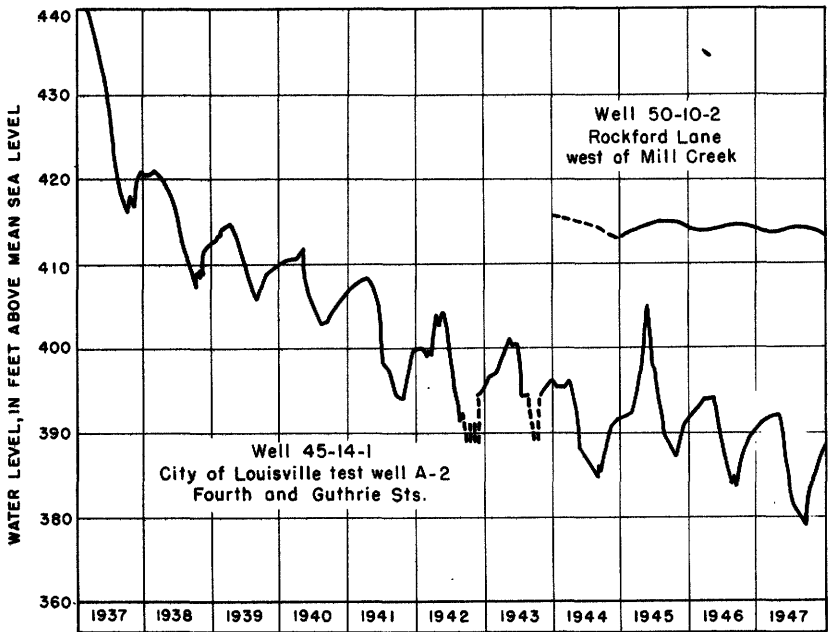


Figure 8.--Graphs of water levels in downtown section (well 45-14-1), and unpumped area in southwestern part (well 50-10-2) of Louisville area, Kentucky.

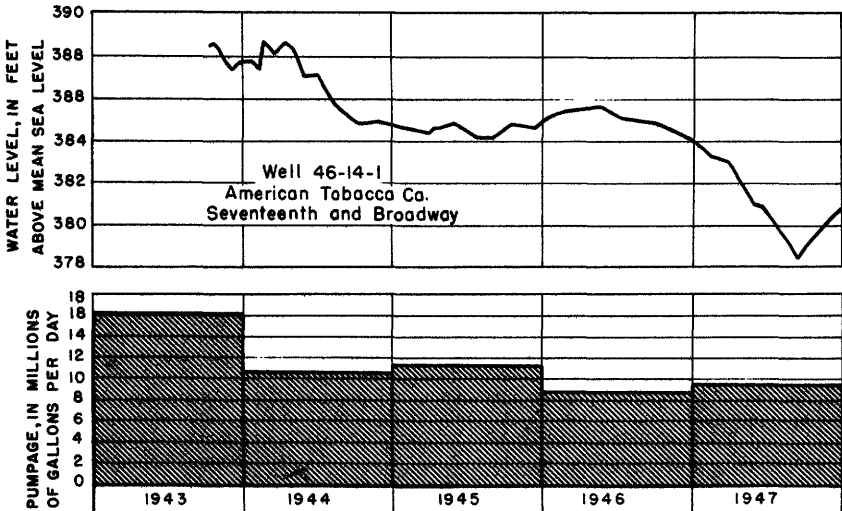


Figure 9.--Graphs of water level and estimated average pumpage in west-central part of Louisville area, Kentucky.

FLUCTUATIONS OF WATER LEVEL

Ground-water levels in the Louisville area as a whole declined an average of 0.4 foot during 1947. In the unpumped area southwest of the city water levels dropped 0.3 foot, indicating that the gain from precipitation was insufficient to replace the normal loss to the Ohio River. The average decline for the whole area appears to have been the result of deficient inflow from precipitation rather than from general overpumpage. Estimated total pumpage in the area was 35.6 million gallons a day.

Although pumpage and inflow were approximately equal for the area as a unit, pumpage distribution throughout the area was unbalanced, resulting in rises in water levels in some areas and declines in others.

Figure 8 shows hydrographs for wells representative of the unpumped area southwest of the city (well 50-10-2) and the heavily pumped downtown area (well 45-14-1). In the latter area (north of parallel $38^{\circ}13'$ and east of meridian $85^{\circ}46'$) overpumpage (airconditioning) continued as in the past. Water levels in this area declined an average of 1.5 feet during the year.

In the industrial section of the city, west of meridian $85^{\circ}46'$ and north of parallel $38^{\circ}13'$ (see fig. 9), water levels declined an average of 1.5 feet during the year, with a maximum decline of 3.0 feet occurring in the central part of the area. Figure 9 shows a hydrograph of water levels (well 46-14-1) and a graph of average pumpage for the area. About three-fourths of the 1947 pumpage was from wells penetrating the limestone beneath the glacial-outwash deposits. This area is unfavorably located from the standpoint of receiving recharge; the area is bounded by areas of heavy pumpage on the east, south, and southwest, and by rock and clay barriers on the north and west.

Figure 10 shows a hydrograph of water levels for well 47-12-1, representative of the distillery area located south of parallel $38^{\circ}13'$ and east of meridian $85^{\circ}49'$, and a graph of average pumpage for this area. Water levels for the area dropped an average of 0.3 foot; losses ranging up to a foot were experienced in the northern portion of the area and small gains were noted in the southern portion.

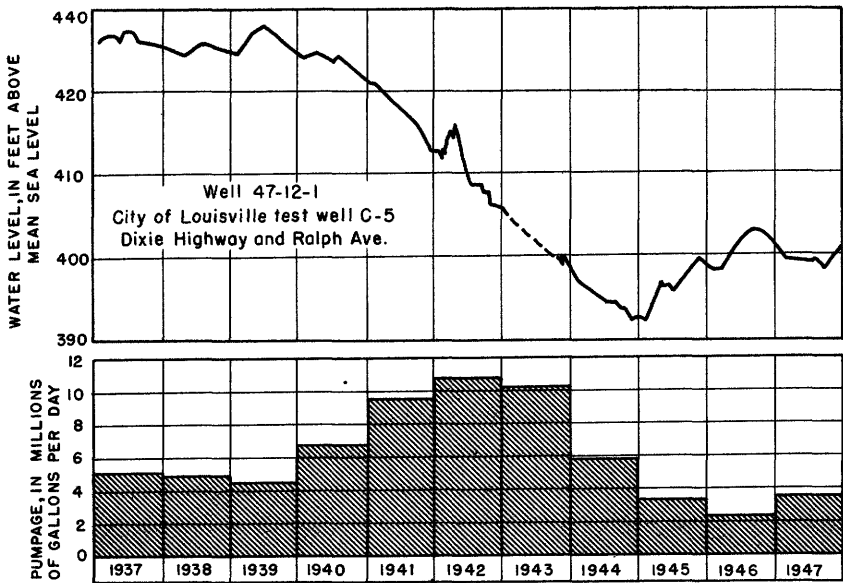


Figure 10.--Graphs of water level and estimated average pumpage in distillery area, Louisville area, Kentucky.

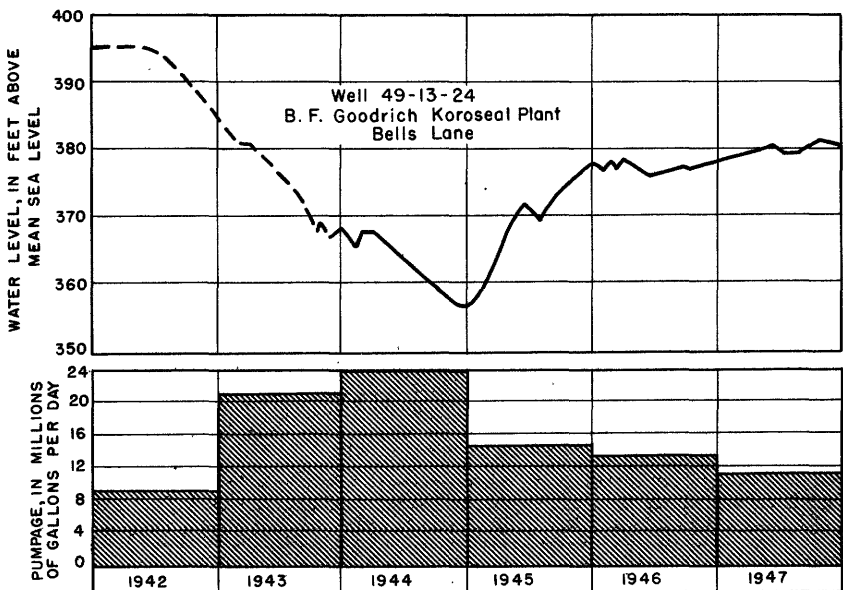


Figure 11.--Graphs of water level and estimated average pumpage in Rubbertown, Louisville area, Kentucky.

In the "Rubbertown" area, an area about 2 miles wide and extending 3 miles southwest along the river from the southwestern boundary of the city, water levels rose an average of 1.1 feet. In some parts of the area the rise was as much as 4 feet. Inactivity in several of the rubber and chemical plants was responsible for the rise. Figure 11 shows the hydrograph for well 49-13-24, on the eastern edge of the area, together with a graph of average pumpage for the area.

WELL-NUMBERING SYSTEM

The wells for which water-level measurements are listed in the following tables are all in Jefferson County. Records for seven wells in the Louisville area, located in Indiana, are published in Water-Supply Paper 1096. The Louisville area lies between latitude 35° and 36° 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 small quadrangle are numbered beginning with 1. Of nearly 700 wells inventoried, only the ones selected for observation are shown on figure 7. Wells are designated by 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 7 for well locations.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Jefferson County

38-19-1 (*1017, p. 207; 1024, p. 115; 1072, p. 132). Harrods Creek. 0.2 mile southwest of Harrods Creek Baptist Church.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 15 | 17.81 | Apr. 29 | 17.77 | Aug. 30 | 19.07 | Oct. 31 | 19.27 |
| Feb. 20 | 18.44 | June 20 | 17.83 | Sept. 29 | 19.42 | Dec. 22 | 18.75 |
| Mar. 20 | 18.49 | July 19 | 18.69 | | | | |

38-19-2 (*1072, p. 132). Louisville Water Co. well WC-27. On River Road, northeast of bridge over Goose Creek. Automatic water-stage recorder maintained on well from May 14 to Oct. 15.

Daily noon water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | | | | | | 17.48 | 18.22 | 18.67 | 18.92 | 19.22 | ..... |
| 2 | | | | | | 16.87 | 18.46 | 18.59 | 18.68 | 19.08 | ..... |
| 3 | | | | | | 16.80 | 18.50 | 18.58 | 18.97 | 19.03 | ..... |
| 4 | | | | | | 17.03 | 18.16 | 18.58 | 19.02 | 19.03 | ..... |
| 5 | | | | | | 17.35 | 18.42 | 18.76 | 19.03 | 19.15 | ..... |
| 6 | | | | | | 17.48 | 18.59 | 18.75 | 19.05 | 19.16 | ..... |
| 7 | | | | | | 17.77 | 18.69 | 18.69 | 18.94 | 18.99 | ..... |
| 8 | | | | | | 17.76 | 18.57 | 18.60 | 18.81 | 19.02 | ..... |

38-19-2--Continued.

Daily noon water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Dec. |
|-----|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|
| 9 | | | | | | 17.71 | 18.49 | 18.47 | 18.62 | 19.01 | ..... |
| 10 | | | | | | 17.56 | ..... | 18.48 | 18.92 | 19.13 | ..... |
| 11 | | | | | | 17.48 | 18.38 | 18.67 | 18.88 | 19.09 | ..... |
| 12 | | | | | | 17.26 | 18.39 | 18.69 | 19.10 | 19.05 | ..... |
| 13 | | | | | | 17.02 | 18.40 | 19.06 | 18.85 | 18.86 | ..... |
| 14 | | | | | a18.17 | 17.05 | 18.35 | 19.07 | 18.92 | 18.81 | ..... |
| 15 | a17.78 | ..... | ..... | ..... | 18.24 | 17.32 | 18.54 | 18.74 | 18.63 | a18.94 | ..... |
| 16 | | | | | 18.46 | 17.61 | 18.49 | 18.69 | 18.64 | ..... | ..... |
| 17 | | | | | 18.37 | 17.80 | 18.40 | 18.70 | 18.67 | ..... | ..... |
| 18 | | | | | 18.34 | 17.78 | 18.44 | a18.88 | 18.64 | ..... | ..... |
| 19 | | | | | 18.22 | 17.80 | 18.44 | 18.58 | 18.96 | ..... | ..... |
| 20 | | a18.42 | a17.92 | ..... | 18.39 | 17.92 | 18.45 | 18.54 | 18.97 | ..... | ..... |
| 21 | | | | | 18.03 | 18.17 | a18.64 | 18.66 | 18.96 | ..... | ..... |
| 22 | | | | | 17.74 | 18.50 | 18.49 | 18.78 | 18.70 | ..... | a18.60 |
| 23 | | | | | 17.45 | 18.49 | 18.76 | 18.73 | 18.95 | ..... | ..... |
| 24 | | | | | 17.18 | 18.48 | 18.83 | 18.67 | 19.03 | ..... | ..... |
| 25 | | | | | 16.76 | 18.44 | 18.96 | 18.57 | 19.15 | ..... | ..... |
| 26 | | | | | 16.38 | 18.34 | 18.81 | 18.78 | 19.27 | ..... | ..... |
| 27 | | | | | 16.41 | 18.52 | 18.87 | 18.76 | ..... | ..... | ..... |
| 28 | | | | | 16.82 | 18.39 | 18.69 | 18.73 | ..... | ..... | ..... |
| 29 | | | | a17.87 | 16.96 | 18.42 | 18.76 | 18.77 | a19.21 | ..... | ..... |
| 30 | | | | | 17.08 | 18.31 | 18.80 | 18.83 | 19.21 | ..... | ..... |
| 31 | | | | | 17.10 | ..... | 18.57 | 18.73 | ..... | a18.79 | ..... |

a Tape measurement at another hour.

38-20-2 (*1017, p. 208; 1024, p. 115; 1072, p. 132). W. W. Liter.
1.5 miles north of Harrods Creek.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 15 | 18.29 | Apr. 29 | 17.86 | Aug. 30 | 18.73 | Oct. 31 | 18.78 |
| Feb. 20 | 18.48 | June 20 | 18.00 | Sept. 29 | 19.04 | Dec. 22 | 18.68 |
| Mar. 20 | 17.62 | July 19 | 18.33 | | | | |

39-18-1 (*1072, p. 133). Louisville Water Co. well WC-26. On River Road, opposite River Valley Club. Plug replaced Oct. 15, 1947. Measuring point lowered 0.01 foot. New measuring point, top of plug, 2.62 feet above land-surface datum and 458.56 feet above mean sea level. Automatic water-stage recorder maintained on well from May 14 to Oct. 15.

Daily noon water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Dec. |
|-----|--------|--------|--------|-------|--------|-------|--------|-------|-------|-------|-------|
| 1 | | | | | | 35.12 | 35.72 | 36.06 | 36.27 | 36.62 | ..... |
| 2 | | | | | | 35.17 | 35.92 | 36.00 | 36.05 | 36.50 | ..... |
| 3 | | | | | | 35.04 | 35.93 | 36.00 | 36.26 | 36.49 | ..... |
| 4 | | | | | | 35.01 | 35.73 | 36.00 | 36.36 | 36.48 | ..... |
| 5 | | | | | | 35.17 | 35.78 | 36.20 | 36.31 | 36.57 | ..... |
| 6 | | | | | | 35.26 | 35.99 | 36.20 | 36.44 | 36.56 | ..... |
| 7 | | | | | | 35.42 | 36.14 | 36.08 | 36.40 | 36.42 | ..... |
| 8 | | | | | | 35.50 | 36.07 | 36.04 | 36.26 | 36.45 | ..... |
| 9 | | | | | | 35.50 | ..... | 36.02 | 36.13 | 36.45 | ..... |
| 10 | | | | | | 35.38 | ..... | 36.02 | 36.26 | 36.53 | ..... |
| 11 | | | | | | 35.30 | ..... | 36.08 | 36.26 | 36.53 | ..... |
| 12 | | | | | | 35.10 | ..... | 36.05 | 36.43 | 36.48 | ..... |
| 13 | | | | | | 34.87 | ..... | 36.32 | 36.25 | 36.32 | ..... |
| 14 | | | | | a35.68 | 34.85 | a35.78 | 36.45 | 36.31 | ..... | ..... |
| 15 | a35.84 | ..... | ..... | ..... | 35.74 | 34.92 | 36.04 | 36.33 | 36.11 | ..... | ..... |
| 16 | | | | | 35.91 | 35.15 | 36.00 | 36.16 | 36.06 | ..... | ..... |
| 17 | | | | | 35.90 | 35.28 | 35.88 | 36.16 | 36.06 | ..... | ..... |
| 18 | | | | | 35.90 | 35.28 | 35.90 | 36.23 | 36.02 | ..... | ..... |
| 19 | | | | | 35.86 | 35.33 | 35.91 | 36.13 | 36.23 | ..... | ..... |
| 20 | | a36.02 | a35.71 | ..... | 35.95 | 35.48 | 35.92 | 36.03 | 36.32 | ..... | ..... |
| 21 | | | | | 35.92 | 35.62 | 36.08 | 36.02 | 36.32 | ..... | ..... |

a Tape measurement at another hour.

39-18-1--Continued.

Daily noon water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Dec. |
|-----|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|--------|
| 22 | | | | | 35.74 | 35.84 | 36.02 | 36.07 | 36.12 | ..... | a36.16 |
| 23 | | | | | 35.48 | 35.93 | 36.17 | 36.13 | 36.30 | ..... | ..... |
| 24 | | | | | 35.25 | 35.98 | 36.21 | 36.10 | 36.36 | ..... | ..... |
| 25 | | | | | 35.06 | 35.94 | 36.33 | 35.99 | 36.58 | ..... | ..... |
| 26 | | | | | 34.84 | 35.90 | 36.29 | 36.15 | 36.70 | ..... | ..... |
| 27 | | | | | 34.69 | 36.03 | 36.34 | 36.15 | 36.64 | ..... | ..... |
| 28 | | | | | 34.70 | 35.90 | 36.18 | 36.12 | 36.63 | ..... | ..... |
| 29 | | | | a35.58 | 34.86 | 35.90 | 36.19 | 36.15 | 36.63 | ..... | ..... |
| 30 | | | | | 34.92 | 35.81 | 36.24 | 36.20 | 36.62 | ..... | ..... |
| 31 | | | | | 34.94 | ..... | 36.06 | 36.15 | a36.38 | ..... | ..... |

a Tape measurement at another hour.

40-17-1 (*1017, p. 208; 1024, p. 115; 1072, p. 133). Union Park
Club 89. On River Road northeast of Indian Hills Trail.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 15 | 23.04 | Apr. 29 | 22.86 | Sept. 3 | 23.50 | Oct. 31 | 23.66 |
| Feb. 20 | 23.21 | June 20 | 22.76 | 30 | 23.92 | Dec. 22 | 23.39 |
| Mar. 20 | 23.07 | July 19 | 23.19 | | | | |

40-17-2 (*1017, p. 208; 1024, p. 115; 1072, p. 133). Louisville
Trust Co. Blankenbaker Lane, south of River Road.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 15 | 16.20 | Apr. 29 | 16.20 | Sept. 1 | 16.69 | Oct. 31 | 16.79 |
| Feb. 20 | 16.52 | June 20 | 16.25 | 29 | 17.11 | Dec. 22 | 16.71 |
| Mar. 20 | 16.19 | July 19 | 16.38 | | | | |

40-17-3 (*1072, p. 133). Louisville Water Co. well WC-11. At intersection of River Road and Indian Hills Trail. Recorder installed May 8, 1947. Measuring point raised 0.73 foot. New measuring point, top of recorder floor, 3.57 feet above land-surface datum and 437.07 feet above mean sea level. Automatic water-stage recorder maintained on well from May 8 to Nov. 3.

Daily noon water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|-------|
| 1 | | | | | 13.16 | 13.14 | 13.63 | 13.89 | 14.11 | ..... | ..... | ..... |
| 2 | | | | | 12.92 | 13.65 | 13.51 | 13.55 | 13.95 | ..... | ..... | ..... |
| 3 | | | | | 12.63 | 13.52 | 13.49 | 14.05 | 14.01 | a13.77 | ..... | ..... |
| 4 | | | | | 12.82 | 13.19 | 13.62 | 14.00 | 14.08 | ..... | ..... | ..... |
| 5 | | | | | 12.91 | 13.43 | 13.30 | 14.00 | 14.20 | ..... | ..... | ..... |
| 6 | | | | | 13.10 | 13.69 | 13.75 | 13.99 | 14.04 | ..... | ..... | ..... |
| 7 | | | | | 13.28 | 13.79 | 13.46 | 13.83 | 13.76 | ..... | ..... | ..... |
| 8 | | | | a13.35 | 13.49 | 13.47 | 13.55 | 13.71 | 14.02 | ..... | ..... | ..... |
| 9 | | | | 13.23 | 13.10 | 13.55 | 13.32 | 13.64 | 14.00 | ..... | ..... | ..... |
| 10 | | | | 13.20 | 13.10 | 13.49 | 13.70 | 14.03 | 14.15 | ..... | ..... | ..... |
| 11 | | | | 13.27 | 12.84 | 13.39 | 13.59 | 13.81 | 14.02 | ..... | ..... | ..... |
| 12 | | | | 13.24 | 12.73 | 13.41 | 13.78 | 14.24 | 13.93 | ..... | ..... | ..... |
| 13 | | | | 13.22 | 12.50 | 13.40 | 14.19 | 13.73 | 13.75 | ..... | ..... | ..... |
| 14 | | | | 13.33 | 12.57 | 13.33 | 14.09 | 13.94 | 13.82 | ..... | ..... | ..... |
| 15 | a13.39 | ..... | ..... | 13.49 | 12.76 | 13.65 | 13.69 | 13.45 | 13.83 | ..... | ..... | ..... |
| 16 | | | | 13.54 | 12.90 | 13.40 | 13.61 | 13.57 | 14.10 | ..... | ..... | ..... |
| 17 | | | | 13.63 | 13.21 | 13.34 | 13.63 | 13.57 | 13.84 | ..... | ..... | ..... |
| 18 | | | | 13.48 | 12.89 | 13.53 | 13.89 | 13.82 | 14.10 | ..... | ..... | ..... |
| 19 | | | | 13.50 | 13.04 | 13.44 | 13.49 | 13.97 | 13.99 | ..... | ..... | ..... |
| 20 | | a13.61 | a13.34 | 13.50 | 13.35 | 13.54 | 13.49 | 13.96 | 13.84 | ..... | ..... | ..... |
| 21 | | | | 13.41 | 13.27 | 13.65 | 13.59 | 13.97 | 13.83 | ..... | ..... | ..... |
| 22 | | | | 13.14 | 13.71 | 13.46 | 13.70 | 13.52 | 13.96 | ..... | a13.83 | ..... |
| 23 | | | | 12.89 | 13.66 | 13.71 | 13.65 | 13.94 | 13.91 | ..... | ..... | ..... |
| 24 | | | | 12.82 | 13.64 | 13.92 | 13.55 | 13.95 | 13.90 | ..... | ..... | ..... |
| 25 | | | | 12.78 | 13.44 | 13.92 | 13.53 | 14.35 | 13.99 | ..... | ..... | ..... |

a Tape measurement at another hour.

40-17-3--Continued.

Daily noon water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|-------|
| 26 | | | | | 12.57 | 13.48 | 13.79 | 13.78 | 14.31 | 14.13 | ..... | ..... |
| 27 | | | | | 12.55 | 13.66 | 13.89 | 13.68 | 14.02 | 14.13 | ..... | ..... |
| 28 | | | | | 12.79 | 13.34 | 13.60 | 13.75 | ..... | ..... | ..... | ..... |
| 29 | | | | al3.35 | 12.72 | 13.45 | 13.75 | 13.73 | al4.17 | ..... | ..... | ..... |
| 30 | | | | | 12.76 | 13.23 | 13.82 | 13.82 | 14.12 | ..... | ..... | ..... |
| 31 | | | | | 12.73 | ..... | 13.54 | 13.65 | ..... | ..... | ..... | ..... |

a Tape measurement at another hour.

40-17-4 (*1072, p. 134). Louisville Water Co. well WC-12. On Indian Hills Trail, 1,500 feet southeast of River Road. Recorder installed May 9, 1947. Measuring point raised 0.88 foot. New measuring point, top of recorder floor, 3.47 feet above land-surface datum and 438.63 feet above mean sea level. Automatic water-stage recorder maintained on well from May 9 to June 16, and Oct. 13 to Dec. 31.

Daily noon water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 1 | | | | | | 14.01 | ..... | ..... | al5.19 | ..... | 15.41 | 15.19 |
| 2 | | | | | | 13.90 | ..... | ..... | ..... | ..... | 15.41 | 15.17 |
| 3 | | | | | | al3.78 | ..... | ..... | al5.18 | ..... | 15.36 | 15.15 |
| 4 | | | | | | 13.84 | ..... | al4.94 | ..... | ..... | 15.34 | 15.16 |
| 5 | | | | | | 13.98 | ..... | ..... | ..... | ..... | 15.35 | 15.13 |
| 6 | | | | | | 13.99 | ..... | ..... | ..... | ..... | 15.38 | 15.12 |
| 7 | | | | | | | al4.95 | ..... | ..... | ..... | 15.23 | 15.12 |
| 8 | | | | | | | | | al5.17 | ..... | 15.23 | 15.22 |
| 9 | | | | | al4.41 | al4.20 | ..... | ..... | ..... | ..... | 15.23 | 15.14 |
| 10 | | | | | 14.45 | 14.21 | ..... | ..... | ..... | ..... | 15.23 | 15.00 |
| 11 | | | | | 14.43 | 14.18 | ..... | al4.98 | ..... | ..... | 15.23 | 15.08 |
| 12 | | | | | 14.46 | 14.03 | ..... | ..... | ..... | ..... | 15.26 | 15.18 |
| 13 | | | | | 14.47 | 13.88 | ..... | ..... | ..... | al5.35 | 15.18 | 15.03 |
| 14 | | | | | 14.48 | ..... | al4.68 | ..... | ..... | 15.34 | 15.04 | 14.94 |
| 15 | | | | | | | | | al5.08 | 15.36 | 15.05 | 14.93 |
| 16 | al4.64 | ..... | ..... | ..... | ..... | al4.13 | ..... | ..... | ..... | 15.48 | 15.20 | 15.19 |
| 17 | | | | | | | | | | 15.50 | 15.13 | 14.99 |
| 18 | | | | | | | | al5.15 | ..... | 15.53 | 15.24 | 14.91 |
| 19 | | | | | al4.67 | ..... | ..... | ..... | ..... | 15.53 | 15.28 | 14.94 |
| 20 | | al4.84 | al4.74 | ..... | 14.78 | al4.39 | ..... | ..... | ..... | 15.44 | 15.14 | 14.94 |
| 21 | | | | | 14.74 | ..... | al4.96 | ..... | ..... | 15.44 | 15.11 | 15.03 |
| 22 | | | | | 14.60 | ..... | ..... | ..... | al5.14 | 15.48 | 15.15 | 15.07 |
| 23 | | | | | 14.58 | al4.71 | ..... | ..... | ..... | 15.50 | 15.26 | 15.29 |
| 24 | | | | | 14.24 | ..... | ..... | ..... | ..... | 15.44 | 15.37 | 15.28 |
| 25 | | | | | 14.07 | ..... | ..... | al4.93 | ..... | 15.50 | 15.26 | 15.23 |
| 26 | | | | | 13.88 | ..... | ..... | ..... | ..... | 15.58 | 15.08 | 15.20 |
| 27 | | | | | 13.82 | ..... | ..... | ..... | ..... | 15.53 | 14.99 | 15.31 |
| 28 | | | | | 13.80 | ..... | al5.02 | ..... | ..... | 15.43 | 15.00 | 15.39 |
| 29 | | | | al4.42 | 13.91 | ..... | ..... | ..... | al5.60 | 15.57 | 15.09 | 15.28 |
| 30 | | | | | 13.97 | al4.57 | ..... | ..... | ..... | 15.48 | 15.10 | 15.16 |
| 31 | | | | | 13.94 | ..... | ..... | ..... | ..... | 15.43 | ..... | 15.10 |

a Tape measurement at another hour.

40-17-5 (*1072, p. 134). Louisville Water Co. well WC-13. On River Road, 300 feet northeast of Blankenbaker Lane. Plug replaced Oct. 15, 1947. Measuring point lowered 0.07 foot. New measuring point, top of plug, 3.07 feet above land-surface datum, and 441.94 feet above mean sea level. Automatic water-stage recorder maintained during period May 9 to Oct. 15.

Daily noon water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | | | | | | 18.54 | 18.57 | 19.07 | 19.32 | 19.53 | ..... |
| 2 | | | | | | 18.27 | 19.10 | 18.92 | 18.94 | 19.38 | ..... |
| 3 | | | | | | 17.93 | 18.98 | 18.92 | 19.49 | 19.44 | ..... |
| 4 | | | | | | 18.11 | 18.61 | 19.05 | 19.41 | 19.52 | ..... |
| 5 | | | | | | 18.25 | 18.89 | 19.22 | 19.44 | 19.61 | ..... |

40-17-5--Continued.

Daily noon water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Dec. |
|-----|--------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|
| 6 | | | | | | 18.54 | 19.18 | 19.20 | 19.43 | 19.47 | ..... |
| 7 | | | | | | 18.69 | 19.25 | 18.88 | 19.25 | 19.13 | ..... |
| 8 | | | | | | 18.92 | 18.94 | 18.97 | 19.10 | 19.44 | ..... |
| 9 | | | | | al8.61 | 18.47 | 19.02 | 18.72 | 18.85 | 19.40 | ..... |
| 10 | | | | | 18.61 | 18.49 | 18.94 | 19.14 | 19.48 | 19.58 | ..... |
| 11 | | | | | 18.65 | 18.20 | 18.83 | 19.02 | 19.27 | 19.45 | ..... |
| 12 | | | | | 18.65 | 18.05 | 18.86 | 19.23 | 19.65 | 19.36 | ..... |
| 13 | | | | | 18.66 | 17.82 | 18.84 | 19.64 | 19.14 | 19.12 | ..... |
| 14 | | | | | 18.77 | 17.88 | 18.77 | 19.54 | 19.38 | 19.20 | ..... |
| 15 | al8.78 | ..... | ..... | ..... | 18.95 | 18.15 | 19.10 | 19.15 | 18.85 | al9.32 | ..... |
| 16 | | | | | 18.96 | 18.34 | 18.81 | 19.00 | 18.98 | ..... | ..... |
| 17 | | | | | 19.04 | 18.66 | 18.77 | 19.03 | 18.97 | ..... | ..... |
| 18 | | | | | 18.92 | 18.31 | 18.93 | 19.33 | 18.95 | ..... | ..... |
| 19 | | | | | 18.92 | 18.49 | 18.85 | 18.90 | 18.40 | ..... | ..... |
| 20 | | al9.04 | al8.66 | ..... | 18.97 | 18.83 | 19.00 | 18.89 | 19.38 | ..... | ..... |
| 21 | | | | | 18.83 | 18.75 | 19.09 | 18.99 | 19.39 | ..... | ..... |
| 22 | | | | | 18.52 | 19.19 | 18.92 | 19.11 | 18.90 | ..... | al9.24 |
| 23 | | | | | 18.35 | 19.12 | 19.17 | 19.07 | 19.37 | ..... | ..... |
| 24 | | | | | 18.15 | 19.13 | 19.39 | 18.97 | 19.37 | ..... | ..... |
| 25 | | | | | 18.03 | 18.90 | 19.39 | 18.93 | 19.79 | ..... | ..... |
| 26 | | | | | 17.74 | 18.93 | 19.26 | 19.19 | 19.75 | ..... | ..... |
| 27 | | | | | 17.74 | 19.13 | 19.35 | 19.07 | 19.47 | ..... | ..... |
| 28 | | | | | 18.07 | 18.78 | 19.05 | 19.16 | 19.59 | ..... | ..... |
| 29 | | | | al8.73 | 18.04 | 18.89 | 19.17 | 19.11 | 19.59 | ..... | ..... |
| 30 | | | | | 18.11 | 18.67 | 19.26 | 19.20 | 19.55 | ..... | ..... |
| 31 | | | | | 18.12 | ..... | 18.94 | 19.03 | al9.26 | ..... | ..... |

a Tape measurement at another hour.

41-12-1 (*1017, p. 208; 1024, p. 116; 1072, p. 134). Lighthouse Lake. On Gardiner Avenue between Newberg and Bardstown Roads.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 14 | x7.65 | Mar. 17 | x2.87 | June 13 | x0.56 | Oct. 30 | x0.81 |
| Feb. 17 | x3.49 | Apr. 11 | x .57 | July 8 | x .73 | Dec. 30 | x .72 |

x Lake refilling.

41-16-1 (*1017, p. 209; 1024, p. 116; 1072, p. 134). Attila Cox. 0.2 mile southeast of point at River Road and Wagner Beach road sign.

Water level, in feet below land-surface datum, 1947

| Jan. 15 | 14.10 | Apr. 29 | 13.95 | Sept. 3 | 14.84 | Oct. 31 | 15.08 |
|---------|-------|---------|-------|---------|-------|---------|-------|
| Feb. 20 | 14.49 | June 20 | 13.89 | 30 | 15.21 | Dec. 22 | 14.81 |
| Mar. 20 | 14.65 | July 19 | 14.44 | | | | |

41-16-2 (*1072, p. 134). Louisville Water Co. well WC-3. On Zorn Avenue, 1,000 feet southeast of River Road. Automatic water-stage recorder maintained during period Jan. 1 to Nov. 3.

Daily noon water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|------|-------|------|------|------|-------|------|------|-------|------|-------|-------|
| 1 | 8.99 | 7.59 | 9.42 | 9.07 | 8.22 | 7.90 | 8.52 | 8.95 | 9.18 | 9.55 | 9.49 | ..... |
| 2 | 8.76 | 7.64 | 9.48 | 8.94 | 8.14 | 7.75 | 8.60 | 8.92 | 9.15 | 9.54 | 9.48 | ..... |
| 3 | 8.74 | 7.51 | 9.51 | 8.87 | 8.10 | a7.62 | 8.62 | 8.91 | 9.19 | 9.52 | 9.43 | ..... |
| 4 | 8.60 | 7.59 | 9.50 | 8.78 | 8.05 | 7.62 | 8.60 | 8.92 | 9.28 | 9.52 | ..... | ..... |
| 5 | 8.48 | 7.70 | 9.43 | 8.76 | 8.11 | 7.66 | 8.58 | 9.04 | 9.23 | 9.56 | ..... | ..... |
| 6 | 8.40 | 7.77 | 9.43 | 8.73 | 8.16 | 7.69 | 8.65 | 9.04 | 9.31 | 9.56 | ..... | ..... |
| 7 | 8.34 | 7.99 | 9.46 | 8.66 | 8.19 | 7.82 | 8.73 | 9.05 | 9.32 | 9.51 | ..... | ..... |
| 8 | 8.34 | ..... | 9.44 | 8.66 | 8.28 | 7.85 | 8.75 | 9.01 | 9.29 | 9.48 | ..... | ..... |
| 9 | 8.33 | ..... | 9.39 | 8.50 | 8.34 | 7.95 | 8.71 | 9.00 | 9.25 | 9.52 | ..... | ..... |
| 10 | 8.28 | ..... | 9.33 | 8.44 | 8.37 | 7.97 | 8.71 | 8.94 | 9.22 | 9.57 | ..... | ..... |
| 11 | 8.24 | 8.65 | 9.33 | 8.29 | 8.57 | 7.99 | 8.69 | 9.05 | 9.28 | 9.57 | ..... | ..... |
| 12 | 8.24 | 8.74 | 9.33 | 8.23 | 8.37 | 7.94 | 8.68 | 9.04 | 9.34 | 9.57 | ..... | ..... |
| 13 | 8.26 | 8.74 | 9.18 | 8.15 | 8.34 | 7.83 | 8.69 | 9.11 | 9.33 | 9.47 | ..... | ..... |

a Tape measurement at another hour.

41-16-2--Continued.

Daily noon water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|------|------|------|------|------|------|------|------|-------|------|-------|-------|
| 14 | 8.33 | 8.74 | 9.21 | 8.07 | 8.40 | 7.83 | 8.66 | 9.17 | 9.34 | 9.41 | ..... | ..... |
| 15 | 8.27 | 8.80 | 9.30 | 8.01 | 8.48 | 7.85 | 8.76 | 9.18 | 9.27 | 9.39 | ..... | ..... |
| 16 | 8.22 | 8.80 | 9.37 | 7.93 | 8.58 | 7.93 | 8.75 | 9.11 | 9.24 | 9.45 | ..... | ..... |
| 17 | 8.26 | 8.87 | 9.43 | 7.92 | 8.58 | 7.97 | 8.71 | 9.10 | 9.24 | 9.50 | ..... | ..... |
| 18 | 8.20 | 8.90 | 9.50 | 7.85 | 8.62 | 7.99 | 8.71 | 9.12 | 9.21 | 9.50 | ..... | ..... |
| 19 | 8.09 | 8.94 | 9.40 | 7.91 | 8.62 | 8.06 | 8.72 | 9.14 | 9.23 | 9.50 | ..... | ..... |
| 20 | 8.01 | 8.97 | 9.27 | 7.90 | 8.66 | 8.11 | 8.72 | 9.09 | 9.31 | 9.49 | ..... | ..... |
| 21 | 7.88 | 9.04 | 9.24 | 8.05 | 8.64 | 8.20 | 8.76 | 9.07 | 9.30 | 9.47 | ..... | ..... |
| 22 | 7.88 | 9.06 | 9.34 | 8.10 | 8.64 | 8.32 | 8.80 | 9.09 | 9.32 | 9.46 | ..... | ..... |
| 23 | 7.81 | 9.06 | 9.25 | 8.07 | 8.50 | 8.37 | 8.85 | 9.13 | 9.31 | 9.47 | ..... | 89.62 |
| 24 | 7.65 | 9.13 | 9.13 | 8.14 | 8.43 | 8.41 | 8.86 | 9.10 | 9.36 | 9.45 | ..... | ..... |
| 25 | 7.52 | 9.22 | 9.27 | 8.07 | 8.24 | 8.41 | 8.93 | 9.07 | 9.46 | 9.45 | ..... | ..... |
| 26 | 7.55 | 9.31 | 9.29 | 8.21 | 8.07 | 8.42 | 8.93 | 9.18 | 9.52 | 9.47 | ..... | ..... |
| 27 | 7.57 | 9.42 | 9.32 | 8.14 | 7.99 | 8.51 | 8.96 | 9.18 | 9.53 | 9.45 | ..... | ..... |
| 28 | 7.73 | 9.44 | 9.42 | 8.21 | 7.93 | 8.51 | 8.93 | 9.16 | 9.53 | 9.46 | ..... | ..... |
| 29 | 7.67 | | 9.40 | 8.22 | 7.94 | 8.52 | 8.98 | 9.19 | 9.53 | 9.53 | ..... | ..... |
| 30 | 7.64 | | 9.36 | 8.27 | 7.95 | 8.53 | 9.00 | 9.18 | 9.54 | 9.53 | ..... | ..... |
| 31 | 7.78 | | 9.12 | | 7.91 | | 8.94 | 9.18 | | 9.52 | ..... | ..... |

a Tape measurement at another hour.

41-16-3 (*1072, p. 135). Louisville Water Co. well WC-4. At River Road and Zorn Avenue. Recorder exchanged Nov. 17, 1947. Measuring point raised 0.59 foot. New measuring point, top of recorder floor, 1.64 feet above land-surface datum, and 437.43 feet above mean sea level.

Daily noon water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 16.27 | 14.90 | 16.70 | 16.33 | 15.53 | 15.25 | 15.80 | 16.25 | 16.46 | 16.85 | 16.74 | 16.57 |
| 2 | 16.08 | 14.95 | 16.72 | 16.18 | 15.44 | 15.12 | 15.92 | 16.24 | 16.41 | 16.80 | 16.73 | 16.59 |
| 3 | 16.03 | 14.87 | 16.74 | 16.14 | 15.38 | 15.02 | 15.93 | 16.19 | 16.54 | 16.81 | 16.68 | 16.59 |
| 4 | 15.88 | 14.90 | 16.74 | 16.10 | 15.37 | 15.00 | 15.88 | 16.21 | 16.56 | 16.81 | 16.69 | 16.60 |
| 5 | 15.75 | 15.03 | 16.67 | 16.07 | 15.42 | 15.04 | 15.88 | 16.33 | 16.55 | 16.85 | 16.73 | 16.60 |
| 6 | 15.70 | 15.11 | 16.66 | 16.02 | ..... | 15.07 | 15.95 | 16.32 | 16.63 | 16.85 | 16.71 | 16.65 |
| 7 | 15.65 | 15.38 | 16.69 | 15.96 | ..... | 15.19 | 16.03 | 16.30 | 16.63 | 16.76 | 16.63 | 16.66 |
| 8 | 15.65 | 15.57 | 16.68 | 15.83 | ..... | 15.21 | 16.05 | 16.26 | 16.56 | 16.76 | 16.63 | 16.74 |
| 9 | 15.63 | 15.67 | 16.61 | 15.77 | ..... | 15.33 | 16.00 | 16.23 | 16.51 | 16.78 | 16.62 | 16.73 |
| 10 | 15.62 | 15.86 | 16.59 | 15.73 | ..... | 15.31 | 16.01 | 16.23 | 16.55 | 16.85 | 16.62 | 16.60 |
| 11 | 15.57 | 15.97 | 16.51 | 15.63 | ..... | 15.30 | 15.97 | 16.31 | 16.58 | 16.85 | 16.58 | 16.61 |
| 12 | 15.57 | 16.05 | 16.42 | 15.52 | 15.67 | 15.24 | 15.98 | 16.32 | 16.66 | 16.85 | 16.64 | 16.63 |
| 13 | 15.60 | 16.06 | 16.56 | 15.45 | 15.67 | 15.15 | 15.98 | 16.43 | 16.59 | 16.71 | 16.62 | 16.59 |
| 14 | 15.69 | 16.06 | ..... | 15.35 | 15.73 | 15.16 | 15.95 | 16.46 | 16.62 | 16.68 | 16.49 | 16.50 |
| 15 | 15.60 | 16.09 | ..... | 15.34 | 15.79 | 15.19 | 16.09 | 16.45 | 16.52 | 16.68 | 16.48 | 16.47 |
| 16 | 15.60 | 16.10 | ..... | 15.27 | 15.90 | 15.27 | 16.06 | 16.37 | 16.49 | 16.77 | 16.59 | 16.58 |
| 17 | 15.65 | 16.15 | 16.69 | 15.21 | 15.90 | 15.31 | 16.00 | 16.38 | 16.49 | 16.79 | 16.60 | 16.57 |
| 18 | 15.57 | 16.18 | 16.71 | 15.18 | 15.92 | 15.30 | 16.02 | 16.42 | 16.44 | 16.81 | 16.62 | 16.57 |
| 19 | 15.46 | 16.26 | 16.60 | 15.25 | 15.92 | 15.36 | 16.02 | 16.39 | 16.53 | 16.80 | 16.63 | 16.57 |
| 20 | 15.34 | 16.29 | 16.50 | 15.22 | 15.98 | 15.51 | 16.05 | 16.34 | 16.59 | 16.77 | 16.57 | 16.59 |
| 21 | 15.30 | 16.37 | 16.50 | 15.38 | 15.95 | 15.53 | 16.11 | 16.34 | 16.58 | 16.75 | 16.56 | 16.65 |
| 22 | 15.17 | 16.40 | 16.56 | 15.43 | 15.91 | 15.66 | 16.07 | 16.38 | 16.54 | 16.74 | 16.56 | 16.67 |
| 23 | 15.00 | 16.41 | 16.52 | 15.38 | 15.80 | 15.69 | 16.18 | 16.40 | 16.59 | 16.77 | 16.60 | 16.90 |
| 24 | 14.92 | 16.46 | 16.43 | 15.46 | 15.71 | 15.76 | 16.21 | 16.38 | 16.63 | 16.72 | 16.68 | 16.91 |
| 25 | 14.92 | 16.50 | 16.51 | 15.41 | 15.64 | 15.75 | 16.26 | 16.34 | 16.76 | 16.74 | 16.61 | 16.94 |
| 26 | 14.85 | 16.60 | 16.52 | 15.48 | 15.39 | 15.76 | 16.25 | 16.45 | 16.83 | 16.77 | 16.50 | 16.96 |
| 27 | 14.90 | 16.69 | 16.60 | 15.45 | 15.30 | 15.84 | 16.29 | 16.45 | 16.82 | 16.74 | 16.45 | 17.04 |
| 28 | 15.03 | 16.71 | 16.66 | 15.51 | 15.25 | 15.82 | 16.23 | 16.44 | 16.80 | ..... | 16.46 | 17.06 |
| 29 | 15.01 | | 16.66 | 15.55 | 15.26 | 15.83 | 16.30 | 16.45 | 16.81 | ..... | 16.51 | 17.04 |
| 30 | 15.00 | | 16.61 | 15.58 | 15.28 | 15.82 | 16.33 | 16.46 | 16.86 | ..... | 16.53 | 17.04 |
| 31 | 15.10 | | 16.39 | | 15.24 | | 16.23 | 16.43 | | 16.72 | | 16.98 |

a Tape measurement at another hour.

41-16-4 (*1072, p. 135). Louisville Water Co. well WC-9. On River Road at entrance to Wagners Beach. Plug replaced May 8, 1947. Measuring point lowered 0.08 foot. New measuring point, top of plug, 3.28 feet above land-surface datum, and 441.28 feet above mean sea level. Automatic water-stage recorder maintained during period Feb. 3 to May 8.

Daily noon water level, in feet below land-surface datum, 1947
(From recorder charts)

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 15 | a 17.61 | Feb. 28 | 18.41 | Mar. 26 | 18.24 | Apr. 20 | 17.28 |
| Feb. 3 | a 16.81 | Mar. 1 | 18.38 | 27 | 18.29 | 21 | 17.42 |
| 4 | 16.86 | 2 | 18.42 | 28 | 18.34 | 22 | 17.49 |
| 5 | e 17.00 | 3 | 18.43 | 29 | 18.37 | 23 | 17.43 |
| 6 | e 17.1 | 4 | 18.36 | 30 | 18.30 | 24 | 17.43 |
| 7 | e 17.3 | 5 | 18.27 | 31 | 18.07 | 25 | 17.43 |
| 8 | e 17.5 | 6 | 18.27 | Apr. 1 | 18.01 | 26 | 17.43 |
| 9 | e 17.6 | 7 | 18.30 | 2 | 17.90 | 27 | 17.43 |
| 10 | e 17.8 | 8 | 18.29 | 3 | 17.88 | 28 | 17.56 |
| 11 | 17.84 | 9 | 18.21 | 4 | 17.84 | 29 | 17.56 |
| 12 | 17.92 | 10 | 18.18 | 5 | 17.79 | 30 | 17.59 |
| 13 | 17.91 | 11 | 18.17 | 6 | 17.79 | May 1 | 17.50 |
| 14 | 17.87 | 12 | 18.17 | 7 | 17.74 | 2 | 17.40 |
| 15 | 17.91 | 13 | 18.05 | 8 | 17.66 | 3 | 17.29 |
| 16 | 17.90 | 14 | 18.13 | 9 | 17.62 | 4 | 17.28 |
| 17 | 17.96 | 15 | 18.26 | 10 | 17.56 | 5 | 17.33 |
| 18 | 17.96 | 16 | 18.34 | 11 | 17.39 | 6 | 17.32 |
| 19 | 17.99 | 17 | 18.38 | 12 | 17.41 | 7 | 17.40 |
| 20 | 17.99 | 18 | 18.38 | 13 | 17.33 | 8 | 17.53 |
| 21 | 18.05 | 19 | 18.24 | 14 | 17.28 | June 20 | a 17.47 |
| 22 | 18.07 | 20 | 18.17 | 15 | 17.30 | July 19 | a 17.94 |
| 23 | 18.07 | 21 | 18.12 | 16 | 17.27 | Sept. 3 | a 18.38 |
| 24 | 18.10 | 22 | 18.19 | 17 | 17.21 | 30 | a 18.67 |
| 25 | 18.25 | 23 | 18.17 | 18 | 17.18 | Oct. 31 | a 18.54 |
| 26 | 18.34 | 24 | 18.08 | 19 | 17.26 | Dec. 22 | a 18.31 |
| 27 | 18.41 | 25 | 18.21 | | | | |

a Tape measurement at another hour.

e Estimated.

41-17-1 (*1017, p. 209; 1024, p. 116; 1072, p. 135). Sam J. Hamrick. 500 feet south of River Road, 1.0 mile east of Zorn Avenue.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|---------|-------|---------|-------|
| Jan. 15 | 23.50 | Apr. 29 | 23.35 | Sept. 3 | 24.06 | Oct. 31 | 24.19 |
| Feb. 20 | 23.72 | June 20 | 23.27 | 30 | 24.39 | Dec. 22 | 23.91 |
| Mar. 20 | 23.95 | July 19 | 23.66 | | | | |

41-17-2 (*1072, p. 135). Louisville Water Co. well WC-8. Wagners Beach. Automatic water-stage recorder maintained during period Jan. 27 to May 8.

Daily noon water level, in feet below land-surface datum, 1947
(From recorder charts)

| | | | | | | | |
|---------|--------|---------|------|--------|------|---------|------|
| Jan. 15 | a 7.27 | Feb. 12 | 7.58 | Mar. 1 | 7.90 | Mar. 18 | 7.64 |
| 27 | a 6.57 | 13 | 7.50 | 2 | 8.03 | 19 | 7.47 |
| 28 | 6.69 | 14 | 7.49 | 3 | 7.86 | 20 | 7.47 |
| 29 | 6.69 | 15 | 7.51 | 4 | 7.69 | 21 | 7.47 |
| 30 | 6.78 | 16 | 7.46 | 5 | 7.56 | 22 | 7.51 |
| 31 | 6.61 | 17 | 7.49 | 6 | 7.67 | 23 | 7.58 |
| Feb. 1 | 6.29 | 18 | 7.43 | 7 | 7.75 | 24 | 7.61 |
| 2 | 6.50 | 19 | 7.52 | 8 | 7.72 | 25 | 7.46 |
| 3 | 6.46 | 20 | 7.52 | 9 | 7.39 | 26 | 7.66 |
| 4 | 6.43 | 21 | 7.66 | 10 | 7.53 | 27 | 7.87 |
| 5 | 6.67 | 22 | 7.57 | 11 | 7.53 | 28 | 7.79 |
| 6 | 6.88 | 23 | 7.70 | 12 | 7.57 | 29 | 7.88 |
| 7 | 7.22 | 24 | 7.75 | 13 | 7.32 | 30 | 7.57 |
| 8 | 7.47 | 25 | 7.98 | 14 | 7.64 | 31 | 7.28 |
| 9 | 7.56 | 26 | 8.06 | 15 | 7.83 | Apr. 1 | 7.27 |
| 10 | 7.86 | 27 | 8.23 | 16 | 7.93 | 2 | 7.17 |
| 11 | 7.69 | 28 | 7.93 | 17 | 7.84 | 3 | 7.20 |

a Tape measurement at another hour.

41-17-2--Continued.

Daily noon water level, in feet below land-surface datum, 1947
(From recorder charts)

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Apr. 4 | 7.29 | Apr. 15 | 6.98 | Apr. 25 | 7.20 | May 5 | 6.81 |
| 5 | 7.30 | 16 | 6.99 | 26 | 7.01 | 6 | 6.83 |
| 6 | 7.16 | 17 | 6.74 | 27 | 7.10 | 7 | 6.99 |
| 7 | 7.07 | 18 | 6.88 | 28 | 7.25 | 8 | 7.22 |
| 8 | 7.06 | 19 | 7.05 | 29 | 7.27 | June 20 | a 7.30 |
| 9 | 7.04 | 20 | 7.07 | 30 | 7.22 | July 19 | a 7.41 |
| 10 | 7.04 | 21 | 7.34 | May 1 | 7.00 | Sept. 3 | a 8.02 |
| 11 | 6.91 | 22 | 7.10 | 2 | 6.82 | 30 | a 8.10 |
| 12 | 6.82 | 23 | 7.09 | 3 | 6.69 | Oct. 31 | a 7.86 |
| 13 | 6.94 | 24 | 7.24 | 4 | 6.95 | Dec. 22 | a 7.87 |
| 14 | 6.75 | | | | | | |

a Tape measurement at another hour.

41-17-3 (*1072, p. 136). Louisville Water Co. well WC-10. 25 feet from river edge, 1,750 feet upstream from Wagners Beach. Plug replaced Nov. 24, 1947. Measuring point raised 0.02 foot. New measuring point, top of plug, 3.41 feet above land-surface datum and 439.09 feet above mean sea level. Automatic water-stage recorder maintained during period May 11 to Oct. 20.

Daily noon water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | | | | | | 15.58 | 15.39 | 15.85 | 15.99 | 16.32 | ..... | ..... |
| 2 | | | | | | 15.40 | 15.93 | 15.66 | 15.79 | 16.16 | ..... | ..... |
| 3 | | | | | | 14.96 | 15.76 | 15.68 | 16.41 | ..... | ..... | ..... |
| 4 | | | | | | 15.16 | 15.43 | 15.91 | 16.30 | ..... | ..... | ..... |
| 5 | | | | | | 15.19 | 15.69 | 16.01 | 16.26 | ..... | ..... | ..... |
| 6 | | | | | | 15.51 | 16.01 | 16.04 | 16.25 | 16.27 | ..... | ..... |
| 7 | | | | | | 15.58 | 16.04 | 15.66 | 16.06 | 15.87 | ..... | ..... |
| 8 | | | | | | 15.88 | 15.66 | 15.78 | 15.97 | 16.21 | ..... | ..... |
| 9 | | | | | | 16.37 | 15.85 | 15.47 | 15.60 | 16.23 | ..... | ..... |
| 10 | | | | | | 15.47 | 15.73 | 16.04 | ..... | 16.41 | ..... | ..... |
| 11 | | | | | 15.61 | 15.10 | 15.61 | 15.81 | ..... | 16.25 | ..... | ..... |
| 12 | | | | | 15.55 | 15.02 | 15.63 | 16.11 | ..... | ..... | ..... | ..... |
| 13 | | | | | 15.51 | 14.87 | 15.67 | 16.49 | ..... | 15.88 | ..... | ..... |
| 14 | | | | | 15.66 | 14.95 | 15.56 | 16.33 | ..... | ..... | ..... | ..... |
| 15 | 15.68 | ..... | ..... | ..... | 15.84 | 15.07 | 15.87 | 15.88 | 15.62 | ..... | ..... | ..... |
| 16 | | | | | 15.79 | 15.20 | 15.59 | 15.88 | 15.81 | ..... | ..... | ..... |
| 17 | | | | | 15.89 | 15.62 | 15.58 | ..... | 15.73 | ..... | ..... | ..... |
| 18 | | | | | 15.75 | 15.17 | 15.82 | 16.14 | 15.83 | ..... | ..... | ..... |
| 19 | | | | | 15.84 | 15.38 | 15.66 | 15.63 | 16.28 | ..... | ..... | ..... |
| 20 | | 15.91 | 15.65 | ..... | 15.77 | 15.73 | 15.86 | 15.70 | ..... | 16.05 | ..... | ..... |
| 21 | | | | | 15.73 | 15.58 | 15.87 | 15.83 | ..... | ..... | ..... | ..... |
| 22 | | | | | 15.40 | 16.03 | 15.73 | 15.94 | 15.78 | ..... | ..... | 16.18 |
| 23 | | | | | 15.36 | 15.96 | 15.96 | 15.86 | 16.23 | ..... | ..... | ..... |
| 24 | | | | | 15.18 | 15.94 | 16.24 | 15.72 | 16.20 | ..... | 16.35 | ..... |
| 25 | | | | | 15.21 | 15.69 | 16.19 | 15.78 | 16.63 | ..... | ..... | ..... |
| 26 | | | | | 14.95 | 15.78 | 16.08 | 16.01 | 16.54 | ..... | ..... | ..... |
| 27 | | | | | 14.93 | 15.93 | 16.14 | 15.93 | 16.23 | ..... | ..... | ..... |
| 28 | | | | | 15.27 | 15.60 | 15.85 | 16.03 | 16.44 | ..... | ..... | ..... |
| 29 | | | | 15.64 | 15.12 | 15.70 | 15.96 | 15.95 | 16.37 | ..... | ..... | ..... |
| 30 | | | | | 15.12 | 15.45 | 16.01 | 16.08 | 16.35 | ..... | ..... | ..... |
| 31 | | | | | 15.13 | ..... | 15.80 | 15.88 | ..... | ..... | ..... | ..... |

a Tape measurement at another hour.

42-16-3 (*1017, p. 209; 1024, p. 116; 1072, p. 137). Louisville Gas & Electric Co. At Beargrass plant.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 15 | 7.40 | May 5 | 7.41 | July 19 | 7.93 | Oct. 30 | 8.67 |
| Feb. 20 | 9.11 | June 20 | 7.35 | Sept. 26 | 9.13 | Dec. 23 | 10.21 |
| Mar. 20 | 8.87 | | | | | | |

42-16-4 (*1017, p. 210; 1024, p. 116; 1072, p. 137). Louisville Gas & Electric Co. 93 feet from river edge, 0.5 mile northeast of Bear-grass plant.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 16 | 7.87 | May 2 | 7.39 | Sept. 3 | 8.93 | Oct. 30 | 8.81 |
| Feb. 20 | 8.15 | June 20 | 7.69 | 30 | 9.00 | Dec. 23 | 8.96 |
| Mar. 20 | 8.27 | July 19 | 8.11 | | | | |

42-16-5 (*1017, p. 210; 1024, p. 116; 1072, p. 137). Henry Chambers, 600 feet south of River Road, opposite Louisville Gas & Electric Co. power plant.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 15 | 12.88 | May 1 | 12.84 | Aug. 29 | 14.21 | Oct. 30 | 14.44 |
| Feb. 20 | 15.96 | June 20 | 12.43 | Sept. 26 | 14.67 | Dec. 23 | 16.71 |
| Mar. 20 | 15.39 | July 19 | 13.36 | | | | |

42-16-15 (*1072, p. 137). Louisville Water Co. well WC-5. 160 feet from river edge, 300 feet downstream from Louisville Water Co. pumping station. Recorder house removed Dec. 1, 1947. Measuring point lowered 0.61 foot. New measuring point, top of plug, 2.18 feet above land-surface datum and 437.29 feet above mean sea level. Automatic water-stage recorder maintained during period Jan. 1 to Nov. 3.

Daily noon water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 16.00 | 14.24 | 15.89 | 15.23 | 14.91 | 15.00 | 14.98 | 15.51 | 15.80 | 15.98 | 15.85 | 15.85 |
| 2 | 15.62 | 14.47 | 15.99 | 15.12 | 14.76 | 14.82 | 15.53 | 15.36 | 15.38 | 15.86 | 15.72 | ..... |
| 3 | 15.49 | 14.46 | 15.82 | 15.16 | 14.60 | 14.61 | 15.35 | 15.35 | 15.92 | 15.90 | 15.68 | ..... |
| 4 | 15.25 | 14.41 | 15.63 | 15.24 | 14.89 | 14.80 | 14.94 | 15.48 | 15.84 | 15.93 | ..... | ..... |
| 5 | 15.19 | 14.72 | 15.50 | 15.30 | 14.72 | 14.86 | 15.22 | 15.71 | 15.77 | 16.03 | ..... | ..... |
| 6 | 14.96 | 14.91 | 15.59 | 15.12 | 14.75 | 14.84 | 15.52 | 15.58 | 15.89 | 15.92 | ..... | ..... |
| 7 | 15.05 | 15.22 | 15.69 | 15.01 | 14.88 | 15.05 | 15.53 | 15.36 | 15.77 | 15.70 | ..... | ..... |
| 8 | 15.03 | 15.47 | 15.57 | 15.01 | 15.11 | 14.91 | 15.31 | 15.41 | 15.61 | 15.97 | ..... | ..... |
| 9 | 14.83 | 15.56 | 15.33 | 14.99 | 15.10 | 14.91 | 15.35 | 15.25 | 15.37 | 15.90 | ..... | ..... |
| 10 | 15.14 | 15.87 | 15.47 | 15.01 | 15.10 | 14.97 | 15.37 | 15.47 | 15.97 | 16.07 | ..... | ..... |
| 11 | 14.89 | 15.65 | 15.49 | 14.89 | 15.12 | 14.78 | 15.13 | 15.52 | 15.75 | 15.93 | ..... | ..... |
| 12 | 14.97 | 15.60 | 15.53 | 14.79 | 15.07 | 14.73 | 15.26 | 15.61 | 16.03 | 15.91 | ..... | ..... |
| 13 | 15.05 | 15.47 | 15.26 | 14.89 | 15.07 | 14.47 | 15.23 | 16.04 | 15.58 | 15.59 | ..... | ..... |
| 14 | 15.29 | 15.53 | 15.57 | 14.87 | 15.15 | 14.52 | 15.17 | 15.95 | 15.85 | 15.70 | ..... | ..... |
| 15 | 15.04 | 15.47 | 15.58 | 14.90 | 15.33 | 14.71 | 16.56 | 15.61 | 15.33 | 15.80 | ..... | ..... |
| 16 | 15.21 | 15.43 | 15.59 | 14.93 | 15.44 | 14.82 | 15.29 | 15.39 | 15.44 | 16.05 | ..... | ..... |
| 17 | 15.30 | 15.45 | 15.85 | 14.69 | 15.44 | 15.04 | 15.19 | 15.54 | 15.52 | 15.82 | ..... | ..... |
| 18 | 15.05 | 15.38 | 15.59 | 14.72 | 15.37 | 14.68 | 15.38 | 15.81 | 15.42 | 15.96 | ..... | ..... |
| 19 | 14.83 | 15.48 | 15.42 | 14.94 | 15.38 | 14.84 | 15.29 | 15.40 | 15.79 | 15.84 | ..... | ..... |
| 20 | 14.67 | 15.52 | 15.41 | 14.97 | 15.40 | 15.27 | 15.41 | 15.37 | 15.58 | 15.73 | ..... | ..... |
| 21 | 14.34 | 15.66 | 15.44 | 15.23 | 15.28 | 15.07 | 15.53 | 15.48 | 15.73 | 15.76 | ..... | ..... |
| 22 | 14.30 | 15.56 | 15.48 | 14.98 | 15.31 | 15.51 | 15.27 | 15.60 | 15.34 | 15.74 | ..... | ..... |
| 23 | 14.17 | 15.68 | 15.54 | 14.95 | 15.05 | 15.37 | 15.69 | 15.57 | 15.86 | 15.81 | ..... | 16.06 |
| 24 | 13.70 | 15.72 | 15.55 | 15.16 | 14.95 | 15.40 | 15.64 | 15.51 | 15.89 | 15.62 | ..... | ..... |
| 25 | ..... | 15.95 | 15.31 | 15.06 | 14.85 | 15.21 | 15.82 | 15.42 | 16.19 | 15.83 | ..... | ..... |
| 26 | ..... | 16.06 | 15.57 | 15.01 | 14.74 | 15.23 | 15.55 | 15.74 | 16.22 | 15.99 | ..... | ..... |
| 27 | 14.45 | 16.23 | 15.88 | 15.00 | 14.66 | 15.44 | 15.78 | 15.58 | 15.92 | 15.83 | ..... | ..... |
| 28 | 14.62 | 15.91 | 15.81 | 15.14 | 14.77 | 15.12 | 15.40 | 15.61 | 16.00 | 15.76 | ..... | ..... |
| 29 | 14.60 | | 15.92 | 15.17 | 14.59 | 15.23 | 15.62 | 15.63 | 16.01 | 16.06 | ..... | ..... |
| 30 | 14.62 | | 15.53 | 15.11 | 14.74 | 15.03 | 15.76 | 15.71 | 16.02 | 15.79 | ..... | ..... |
| 31 | 14.57 | | 15.22 | | 14.69 | | 15.36 | 15.53 | | 15.74 | ..... | ..... |

a Tape measurement at another hour.

42-16-16 (*1072, p. 138). Louisville Water Co. well WC-6. 1,400 feet northeast of Louisville Gas & Electric Co. Beargrass plant, 600 feet northwest of River Road. Plug replaced May 9, 1947. Measuring point raised 0.01 foot. New measuring point, top of plug, 3.65 feet above land-surface datum and 432.84 feet above mean sea level. Automatic water-stage recorder maintained during period Jan. 17 to May 9.

42-16-16--Continued.

Daily noon water level, in feet below land-surface datum, 1947
(From recorder charts)

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 15 | a 10.15 | Feb. 15 | 11.73 | Mar. 17 | 12.33 | Apr. 16 | 9.97 |
| 17 | a 10.19 | 16 | 11.76 | 18 | 12.46 | 17 | 9.84 |
| 18 | 10.11 | 17 | 11.75 | 19 | 12.25 | 18 | 9.88 |
| 19 | 10.00 | 18 | 11.94 | 20 | 11.90 | 19 | 9.98 |
| 20 | 9.96 | 19 | 12.05 | 21 | 11.94 | 20 | 9.93 |
| 21 | 9.88 | 20 | 12.12 | 22 | 12.09 | 21 | 10.13 |
| 22 | 10.12 | 21 | 12.26 | 23 | 11.84 | 22 | 10.15 |
| 23 | 10.30 | 22 | 12.21 | 24 | 11.68 | 23 | 10.12 |
| 24 | 9.69 | 23 | 11.88 | 25 | 11.70 | 24 | 10.21 |
| 25 | 9.50 | 24 | 12.05 | 26 | 12.07 | 25 | 10.15 |
| 26 | 9.60 | 25 | 12.29 | 27 | 12.24 | 26 | 10.17 |
| 27 | 9.67 | 26 | 12.33 | 28 | 12.41 | 27 | 10.18 |
| 28 | 9.82 | 27 | 12.49 | 29 | 12.24 | 28 | 10.31 |
| 29 | 9.75 | 28 | 12.43 | 30 | 11.85 | 29 | 10.35 |
| 30 | 9.66 | Mar. 1 | 12.33 | 31 | 11.61 | 30 | 10.34 |
| 31 | 9.75 | 2 | 12.39 | Apr. 1 | 11.46 | May 1 | 10.26 |
| Feb. 1 | 9.55 | 3 | 12.40 | 2 | 11.22 | 2 | 10.22 |
| 2 | 9.88 | 4 | 12.47 | 3 | 11.16 | 3 | 10.17 |
| 3 | 9.66 | 5 | 12.30 | 4 | 11.12 | 4 | 10.19 |
| 4 | 9.82 | 6 | 12.39 | 5 | 10.99 | 5 | 10.22 |
| 5 | 10.37 | 7 | 12.39 | 6 | 10.91 | 6 | 10.27 |
| 6 | 10.40 | 8 | 12.38 | 7 | 10.80 | 7 | 10.35 |
| 7 | 10.64 | 9 | 12.17 | 8 | 10.73 | 8 | 10.45 |
| 8 | 11.04 | 10 | 12.15 | 9 | 10.65 | 9 | 10.42 |
| 9 | 11.10 | 11 | 12.41 | 10 | 10.60 | June 20 | a 10.15 |
| 10 | 11.48 | 12 | 12.29 | 11 | 10.32 | July 19 | a 10.78 |
| 11 | 11.59 | 13 | 12.14 | 12 | 10.24 | Sept. 3 | a 11.39 |
| 12 | 11.71 | 14 | 12.13 | 13 | 10.19 | 30 | a 11.75 |
| 13 | 11.64 | 15 | 12.14 | 14 | 10.07 | Oct. 30 | a 11.68 |
| 14 | 11.76 | 16 | 12.26 | 15 | 11.10 | Dec. 23 | a 12.86 |

a Tape measurement at another hour.

42-16-17 (*1072, p. 138). Louisville Water Co. well WC-7. 1,500 feet northeast of Louisville Gas & Electric Co. Beargrass plant, 1,600 feet northwest of River Road, 20 feet from river edge. Recorder removed May 9, 1947. Measuring point lowered 0.39 foot. New measuring point, top of plug, 3.54 feet above land-surface datum and 426.26 feet above mean sea level. Automatic water-stage recorder maintained during period Jan. 1 to May 9.

Daily noon water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Sept. | Oct. | Dec. |
|-----|------|------|------|------|------|-------|-------|-------|------|------|
| 1 | 3.97 | 2.26 | 4.26 | 3.51 | 2.94 | .... | .... | .... | .... | .... |
| 2 | 3.60 | 2.61 | 4.37 | 3.39 | 2.84 | .... | .... | .... | .... | .... |
| 3 | 3.44 | 2.56 | 4.20 | 3.36 | 2.73 | .... | .... | a4.14 | .... | .... |
| 4 | 3.23 | 2.56 | 4.05 | 3.49 | 3.05 | .... | .... | .... | .... | .... |
| 5 | 3.15 | 2.97 | 3.91 | 3.44 | 2.85 | .... | .... | .... | .... | .... |
| 6 | 3.05 | 3.16 | 4.04 | 3.26 | 2.87 | .... | .... | .... | .... | .... |
| 7 | 3.08 | 3.39 | 4.14 | 3.18 | 3.08 | .... | .... | .... | .... | .... |
| 8 | 2.96 | 3.68 | 4.09 | 3.15 | 3.27 | .... | .... | .... | .... | .... |
| 9 | 2.88 | 3.73 | 3.75 | 3.08 | 3.13 | .... | .... | .... | .... | .... |
| 10 | 3.16 | 4.12 | 3.93 | 3.15 | .... | .... | .... | .... | .... | .... |
| 11 | 2.86 | 3.97 | 3.98 | 3.02 | .... | .... | .... | .... | .... | .... |
| 12 | 3.02 | 3.89 | 4.03 | 2.88 | .... | .... | .... | .... | .... | .... |
| 13 | 3.06 | 3.78 | 3.59 | 2.96 | .... | .... | .... | .... | .... | .... |
| 14 | 3.31 | 3.83 | 3.98 | 2.71 | .... | .... | .... | .... | .... | .... |
| 15 | 3.04 | 3.83 | 4.19 | 2.92 | .... | .... | .... | .... | .... | .... |
| 16 | 3.24 | 3.78 | 4.25 | 2.98 | .... | .... | .... | .... | .... | .... |
| 17 | 3.25 | 3.79 | 4.26 | 2.65 | .... | .... | .... | .... | .... | .... |
| 18 | 2.97 | 3.77 | 4.07 | 2.91 | .... | .... | .... | .... | .... | .... |
| 19 | 2.85 | 3.91 | 3.85 | 2.95 | .... | .... | a3.30 | .... | .... | .... |
| 20 | 2.73 | 3.97 | 3.77 | 2.98 | .... | a3.17 | .... | .... | .... | .... |
| 21 | 2.39 | 4.12 | 3.81 | 3.26 | .... | .... | .... | .... | .... | .... |

a Tape measurement at another hour.

42-16-17--Continued.

Daily noon water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Sept. | Oct. | Dec. |
|-----|------|-------|------|------|------|------|------|-------|-------|-------|
| 22 | 2.44 | 3.98 | 3.85 | 2.97 | .... | .... | .... | .... | .... | .... |
| 23 | 2.44 | .... | 3.86 | 2.97 | .... | .... | .... | .... | .... | a4.74 |
| 24 | 1.83 | a4.19 | 3.84 | 3.12 | .... | .... | .... | .... | .... | .... |
| 25 | 1.91 | 4.42 | 3.64 | 3.12 | .... | .... | .... | .... | .... | .... |
| 26 | 2.41 | 4.45 | 4.01 | 2.93 | .... | .... | .... | .... | .... | .... |
| 27 | 2.45 | 4.62 | 4.25 | 3.07 | .... | .... | .... | .... | .... | .... |
| 28 | 2.65 | 4.34 | 4.21 | 3.25 | .... | .... | .... | .... | .... | .... |
| 29 | 2.64 | .... | 4.23 | 3.26 | .... | .... | .... | .... | .... | .... |
| 30 | 2.74 | .... | 3.78 | 3.16 | .... | .... | .... | a4.18 | a4.04 | .... |
| 31 | 2.59 | .... | 3.49 | .... | .... | .... | .... | .... | .... | .... |

a Tape measurement at another hour.

42-16-18 (*1072, p. 139). Louisville Water Co. well WC-14. 800 feet southeast of River Road, northeast of Frys Avenue. Plug replaced May 9, 1947. Measuring point raised 0.04 foot. New measuring point, top of plug, 0.83 foot above land-surface datum and 435.42 feet above mean sea level. Automatic water-stage recorder maintained during period Jan. 20 to May 9.

Daily noon water level, in feet below land-surface datum, 1947

(From recorder charts)

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 15 | a 15.66 | Feb. 18 | 17.60 | Mar. 19 | 18.03 | Apr. 17 | 15.46 |
| 20 | a 15.46 | 19 | 17.70 | 20 | 17.66 | 18 | 15.37 |
| 21 | 15.47 | 20 | 17.81 | 21 | 17.72 | 19 | 15.48 |
| 22 | 15.68 | 21 | 17.88 | 22 | 17.91 | 20 | 15.39 |
| 23 | 15.86 | 22 | 17.89 | 23 | 17.61 | 21 | 15.55 |
| 24 | 15.40 | 23 | 17.59 | 24 | 17.39 | 22 | 15.63 |
| 25 | 15.16 | 24 | 17.68 | 25 | 17.48 | 23 | 15.62 |
| 26 | 15.20 | 25 | 17.88 | 26 | 17.83 | 24 | 15.69 |
| 27 | 15.21 | 26 | 17.99 | 27 | 17.94 | 25 | 15.60 |
| 28 | 15.37 | 27 | 18.11 | 28 | 18.16 | 26 | 15.70 |
| 29 | 15.30 | 28 | 18.12 | 29 | 17.90 | 27 | 15.71 |
| 30 | 15.15 | Mar. 1 | 18.05 | 30 | 17.55 | 28 | 15.79 |
| 31 | 15.30 | 2 | 18.10 | 31 | 17.34 | 29 | 15.83 |
| Feb. 1 | 15.13 | 3 | 18.15 | Apr. 1 | 17.23 | 30 | 15.85 |
| 2 | 15.35 | 4 | 18.24 | 2 | 16.90 | May 1 | 15.81 |
| 3 | 15.15 | 5 | 18.10 | 3 | 16.82 | 2 | 15.76 |
| 4 | 15.32 | 6 | 18.18 | 4 | 16.73 | 3 | 15.74 |
| 5 | 15.85 | 7 | 18.16 | 5 | 16.57 | 4 | 15.70 |
| 6 | 15.94 | 8 | 18.15 | 6 | 16.53 | 5 | 15.78 |
| 7 | 16.10 | 9 | 17.98 | 7 | 16.47 | 6 | 15.81 |
| 8 | 16.51 | 10 | 17.97 | 8 | 16.35 | 7 | 15.89 |
| 9 | 16.61 | 11 | 18.17 | 9 | 16.28 | 8 | 15.97 |
| 10 | 16.96 | 12 | 18.02 | 10 | 16.19 | 9 | 15.98 |
| 11 | 17.16 | 13 | 17.69 | 11 | 15.86 | June 20 | a 15.62 |
| 12 | 17.29 | 14 | 17.63 | 12 | 15.80 | July 19 | a 16.36 |
| 13 | 17.26 | 15 | 17.76 | 13 | 15.69 | Sept. 3 | a 16.96 |
| 14 | 17.40 | 16 | 17.90 | 14 | 15.61 | 30 | a 17.39 |
| 15 | 17.37 | 17 | 18.00 | 15 | 15.64 | Oct. 30 | a 17.32 |
| 16 | 17.40 | 18 | 18.19 | 16 | 15.47 | Dec. 23 | a 18.53 |
| 17 | 17.42 | | | | | | |

a Tape measurement at another hour.

43-11-1 (*1017, p. 210; 1024, p. 117; 1072, p. 139). L. Cave. At 1324 Morgan Street.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|---------|-------|---------|-------|
| Jan. 14 | 12.42 | Mar. 17 | 13.48 | June 13 | 12.44 | Oct. 30 | 13.53 |
| Feb. 17 | 13.43 | Apr. 11 | 10.19 | July 8 | 13.48 | Dec. 30 | 13.52 |

43-15-1 (*1017, p. 211; 1024, p. 117; 1072, p. 139). City of Louisville well M-1. At Beargrass sewerage pumping station on Letterle Avenue.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 15 | 33.92 | May 1 | 33.41 | July 19 | 32.70 | Oct. 30 | 33.91 |
| Feb. 19 | 34.92 | 23 | 33.30 | Sept. 26 | 33.79 | Dec. 30 | 35.13 |
| Mar. 20 | 34.91 | June 19 | 32.09 | | | | |

43-15-3 (*1072, p. 140). E. H. Koch. At 1415 Quincy Avenue.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 15 | 33.58 | May 1 | 33.63 | July 19 | 33.41 | Oct. 30 | 34.86 |
| Feb. 19 | 33.60 | 23 | 33.74 | Sept. 26 | 34.29 | Dec. 30 | 34.96 |
| Mar. 20 | 34.05 | June 19 | 33.20 | | | | |

43-15-26 (*1072, p. 140). C. F. Vissman & Co. At 117 Bickel Avenue.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 15 | 51.10 | May 1 | 50.94 | July 19 | 50.39 | Oct. 30 | 53.29 |
| Feb. 19 | 50.94 | 23 | 51.67 | Sept. 26 | 50.82 | Dec. 30 | 52.11 |
| Mar. 20 | 50.97 | June 19 | 50.81 | | | | |

43-16-1 (*1017, p. 212; 1024, p. 117; 1072, p. 140). City of Louisville. 150 feet east of municipal boat harbor.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 15 | 8.82 | May 1 | 8.82 | July 19 | 8.73 | Oct. 30 | 9.69 |
| Feb. 19 | 9.28 | 23 | 8.88 | Aug. 29 | 9.23 | Dec. 30 | 10.50 |
| Mar. 20 | 9.41 | June 19 | 8.21 | Sept. 26 | 9.76 | | |

43-16-7 (*1072, p. 141). Louisville Water Co. well WC-2. 50 feet from river edge, 1,200 feet upstream from mouth of Beargrass Creek. Recorder installed Jan. 17, 1947. Measuring point lowered 0.07 foot. New measuring point, top of coupling, 4.01 feet above land-surface datum and 429.11 feet above mean sea level. Automatic water-stage recorder maintained on well from Jan. 17 to Nov. 11.

Daily noon water level, in feet below land-surface datum, 1947

| (From recorder charts) | | | | | | | | | | | | |
|------------------------|-------|------|------|------|------|-------|-------|------|-------|-------|------|-------|
| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
| 1 | .... | 6.05 | 8.37 | 7.60 | 6.97 | .... | 6.80 | 7.38 | 7.87 | 8.10 | 8.11 | .... |
| 2 | .... | 6.57 | 8.43 | 7.45 | 6.87 | a6.45 | 7.19 | 7.16 | 7.46 | 8.08 | 8.00 | .... |
| 3 | .... | 6.24 | 8.34 | 7.40 | 6.75 | .... | 7.06 | 7.22 | 7.83 | 8.12 | 7.92 | .... |
| 4 | .... | 6.23 | 8.29 | 7.45 | 6.97 | a6.45 | 6.82 | 7.38 | a7.8 | 8.18 | .... | .... |
| 5 | .... | 6.66 | 8.15 | 7.40 | 6.77 | 6.35 | 6.98 | 7.45 | 7.94 | 8.23 | .... | .... |
| 6 | .... | 6.81 | 8.27 | 7.24 | 6.79 | 6.53 | 7.16 | 7.52 | 7.90 | a8.13 | .... | .... |
| 7 | .... | 7.05 | 8.35 | 7.12 | 6.95 | 6.62 | 7.22 | 7.84 | 7.74 | 7.88 | .... | .... |
| 8 | .... | 7.32 | 8.30 | 7.06 | 7.09 | 6.86 | 6.99 | 7.34 | 7.67 | 8.14 | .... | .... |
| 9 | .... | 7.39 | 8.00 | 6.97 | 6.96 | 6.53 | 7.11 | 7.12 | 7.49 | 8.07 | .... | .... |
| 10 | .... | 7.82 | 8.13 | 7.01 | 6.99 | 6.66 | .... | 7.39 | 8.00 | 8.21 | .... | .... |
| 11 | .... | 7.76 | 8.23 | 6.84 | 7.03 | 6.44 | .... | 7.33 | 7.74 | 8.07 | .... | .... |
| 12 | .... | 7.74 | 8.22 | 6.67 | 7.01 | 6.45 | .... | 7.54 | 8.10 | 7.89 | .... | .... |
| 13 | .... | 7.70 | 7.83 | 6.64 | 6.97 | 6.29 | .... | 7.85 | 7.87 | 7.80 | .... | .... |
| 14 | .... | 7.79 | 8.07 | 6.36 | 7.10 | 6.27 | a7.13 | 7.79 | 7.95 | 7.85 | .... | .... |
| 15 | a6.95 | 7.74 | 8.29 | 6.52 | 7.21 | 6.30 | 7.17 | 7.49 | 7.50 | 7.90 | .... | .... |
| 16 | .... | 7.76 | 8.41 | 6.54 | 7.26 | 6.35 | 6.99 | 7.47 | 7.64 | 8.16 | .... | .... |
| 17 | 7.07 | 7.75 | 8.39 | 6.29 | 7.30 | 6.57 | 7.02 | 7.47 | 7.64 | 7.91 | .... | .... |
| 18 | 6.87 | 7.81 | 8.33 | 6.44 | 7.26 | 6.29 | 7.18 | 7.74 | 7.63 | 8.06 | .... | .... |
| 19 | 6.80 | 7.94 | 8.04 | 6.60 | 7.25 | 6.43 | 7.12 | 7.48 | 8.01 | 7.99 | .... | .... |
| 20 | 6.73 | 8.03 | 7.89 | 6.65 | 7.27 | 6.73 | 7.19 | 7.55 | 7.99 | 7.86 | .... | .... |
| 21 | 6.44 | 8.10 | 7.91 | 6.87 | 7.23 | 6.60 | 7.21 | 7.56 | 7.93 | 7.85 | .... | .... |
| 22 | 6.54 | 8.07 | 7.99 | 6.76 | 7.11 | 6.99 | 7.08 | 7.71 | 7.55 | 7.96 | .... | .... |
| 23 | 6.56 | 8.02 | 7.88 | 6.76 | 7.11 | 6.97 | 7.28 | 7.63 | 7.83 | 7.89 | .... | a9.27 |
| 24 | 5.90 | 8.10 | 7.81 | 6.91 | 7.00 | 6.97 | 7.47 | 7.53 | 7.90 | 7.88 | .... | .... |
| 25 | 5.84 | 8.43 | 7.70 | 6.96 | 6.89 | 6.82 | 7.52 | 7.55 | 8.25 | 7.92 | .... | .... |
| 26 | 6.16 | 8.46 | 8.05 | 6.87 | 6.69 | 6.92 | 7.39 | 7.77 | .... | 8.00 | .... | .... |
| 27 | 6.21 | 8.65 | 8.80 | 6.97 | 6.62 | 7.05 | 7.45 | 7.65 | .... | 8.02 | .... | .... |
| 28 | 6.34 | 8.44 | 8.36 | 7.12 | 6.67 | 6.83 | 7.31 | 7.70 | .... | 7.90 | .... | .... |
| 29 | 6.31 | .... | 8.31 | 7.14 | .... | 6.89 | 7.42 | 7.68 | a8.12 | 8.14 | .... | .... |
| 30 | 6.37 | .... | 7.89 | 7.07 | .... | 6.78 | 7.49 | 7.68 | 8.10 | 8.07 | .... | .... |
| 31 | 6.32 | .... | 7.63 | .... | .... | .... | 7.32 | 7.55 | .... | 8.02 | .... | .... |

a Tape measurement at another hour.

e Estimated.

43-16-8 (*1072, p. 141). Louisville Water Co. well WC-1. 115 feet northwest of River Road, 1.100 feet northeast of Beargrass Creek bridge. Recorder installed Jan. 13, 1947. Measuring point raised 0.36 foot. New measuring point, top of recorder floor, 1.61 feet above land-surface datum and 440.44 feet above mean sea level. Automatic water-stage recorder maintained on well from Jan. 13 to Dec. 31.

Daily noon water-level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|
| 1 | ..... | 21.88 | ..... | 24.02 | 22.50 | 22.05 | 22.55 | 23.02a | 23.28 | 23.84 | ..... | 24.07 |
| 2 | ..... | 21.99 | ..... | 23.77 | 22.44 | 21.82 | 22.67 | 22.92 | 23.24 | 23.91 | ..... | 24.09 |
| 3 | ..... | 21.91 | 24.79 | 23.67 | 22.42 | 21.69 | 22.68 | 22.86 | 23.34 | 23.95a | 23.81 | 24.12 |
| 4 | ..... | 22.00 | 24.94 | 23.58 | 22.36 | 21.69 | 22.68 | 22.98 | 23.42 | 23.93 | 23.86 | ..... |
| 5 | ..... | 22.43 | 24.85 | 23.45 | 22.36 | 21.80 | 22.59 | 23.08 | 23.49 | 23.93 | 23.89 | ..... |
| 6 | ..... | 22.67 | 24.90 | 23.33 | 22.45 | 21.83 | 22.61 | 23.13 | 23.59 | 23.91 | 23.98 | ..... |
| 7 | ..... | 22.72 | 24.92 | 23.21 | 22.49 | 21.95 | 22.65 | 23.06 | 23.52 | 23.85 | 23.88 | ..... |
| 8 | ..... | 23.08 | 24.87 | 23.14 | 22.58 | 21.99 | 22.60 | 23.03 | 23.48 | 23.91 | 23.88a | 24.70 |
| 9 | ..... | 23.15 | 24.70 | 23.02 | 22.58 | 22.00 | 22.63 | 23.05 | 23.43 | 23.93 | 23.81 | 24.51 |
| 10 | ..... | 23.45 | 24.66 | 22.97 | 22.59 | 22.06 | 22.60 | ..... | 23.51 | 23.98 | 23.81 | 24.38 |
| 11 | ..... | 23.69 | 24.87 | 22.83 | 22.56 | 22.02 | 22.57a | 23.06 | 23.48 | 23.91 | 23.80 | 24.38 |
| 12 | ..... | 23.83 | 24.75 | 22.65 | 22.56 | 22.02 | 22.56 | ..... | 23.59 | 23.83 | 23.85 | 24.38 |
| 13a | 22.60 | 23.90 | 24.52 | 22.55 | 22.55 | 21.98 | 22.65 | ..... | 23.63a | 23.75 | 24.03 | 24.30 |
| 14 | 22.61 | 24.07 | 24.40 | 22.38 | 22.63 | 21.95 | 22.61 | ..... | 23.64 | 23.72 | 23.94 | 24.24 |
| 15 | 22.59 | 24.07 | 24.46 | 22.35 | 22.72 | 21.83 | 22.64 | ..... | 23.50 | 23.72 | 23.90 | 24.26 |
| 16 | 22.51 | 24.11 | 24.58 | 22.25 | 22.83 | 21.81 | 22.62 | ..... | 23.60 | 23.86 | 23.99 | 24.29 |
| 17 | 22.51 | 24.06 | 24.66 | 22.12 | 22.77 | 21.85 | 22.68 | ..... | 23.60 | 23.91a | 24.07 | 24.35 |
| 18 | 22.47 | ..... | 24.85 | 22.09 | 22.84 | 21.80 | 22.75a | 23.36 | 23.52 | 23.82 | 24.08 | 24.74 |
| 19 | 22.39 | ..... | 24.73 | 22.12 | 22.78 | 21.88 | 22.76 | 23.37 | 23.69 | ..... | 24.10 | 24.81 |
| 20 | 22.26 | ..... | 24.50 | 22.06 | 22.87 | 21.96 | 22.64 | 23.39 | 23.78a | 23.71 | 24.10 | 24.83 |
| 21 | 22.24 | ..... | 24.51 | 22.14 | 22.78 | 22.02 | 22.68 | 23.43 | 23.69 | 23.70 | 24.11 | 24.91 |
| 22 | 22.46 | ..... | 24.60 | 22.23 | 22.84 | 22.09 | 22.64 | 23.50 | 23.59 | 23.70 | 24.10 | 25.07 |
| 23 | 22.67 | ..... | 24.38 | 22.22 | 22.77 | 22.16 | 22.72 | 23.52 | 23.53 | 23.72 | 24.11 | 25.35 |
| 24 | 22.33a | 24.46 | 24.15 | 22.27 | 22.75 | 22.24 | 22.77 | 23.38 | 23.61 | 23.71 | 24.16 | 25.52 |
| 25 | 22.11 | 24.52 | 24.11 | 22.27 | 22.53 | 22.28 | 22.89 | 23.41 | 23.77 | 23.69 | 24.13 | 25.66 |
| 26 | 21.99 | ..... | 24.40 | 22.33 | 22.32 | 22.34 | 22.93 | 23.55 | 23.87 | 23.69 | 24.02 | 25.75 |
| 27 | 21.96 | ..... | 24.61 | 22.33 | 22.26 | 22.49 | 22.90 | 23.52 | 23.90a | 23.7 | 23.98 | 25.91 |
| 28 | 22.02 | ..... | 24.85 | 22.40 | 22.21 | 22.42 | 22.90 | 23.47 | 23.81 | 23.71 | 23.98 | 25.83 |
| 29 | 21.99 | ..... | 24.69 | 22.48 | 22.16 | 22.40 | 23.01 | 23.50 | 23.76 | 23.83 | 23.94 | 25.69 |
| 30 | 21.92 | ..... | 24.36 | 22.49 | 22.13 | 22.48 | 23.02 | 23.46 | 23.83 | ..... | 23.98 | 25.82 |
| 31 | 21.99 | ..... | 24.15 | ..... | 22.09 | ..... | 23.02 | 23.33 | ..... | ..... | ..... | 25.54 |

a Tape measurement at another hour.

e Estimated.

44-14-1 (*1017, p. 213; 1024, p. 117; 1072, p. 141). Southeastern Greyhound Lines. Between Floyd and Caldwell Streets, in bus parking lot at rear of garage.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 13 | 66.81 | May 5 | 66.51 | July 17 | 67.48 | Oct. 29 | 69.42 |
| Feb. 19 | 66.52 | 23 | 66.73 | Aug. 30 | 68.44 | Dec. 30 | 68.91 |
| Mar. 19 | 66.30 | June 18 | 67.04 | Sept. 30 | 68.97 | | |

44-15-6 (*1024, p. 118; 1072, p. 142). Ohio River Sand Co. At 129 River Road.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 13 | 36.05 | Apr. 24 | 35.98 | July 18 | 36.17 | Oct. 29 | 37.94 |
| Feb. 19 | 36.29 | May 23 | 35.73 | Aug. 29 | 37.00 | Dec. 30 | 38.08 |
| Mar. 19 | 36.33 | June 19 | 36.42 | Sept. 26 | 37.56 | | |

44-15-25 (*1017, p. 213; 1024, p. 118; 1072, p. 142). New York Central System. Directly under railroad bridge over Ohio River.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 13 | 14.66 | Apr. 24 | 15.28 | July 18 | 15.07 | Oct. 29 | 16.05 |
| Feb. 19 | 15.20 | May 23 | 14.85 | Aug. 29 | 15.61 | Dec. 30 | 16.47 |
| Mar. 19 | 15.54 | June 19 | 13.91 | Sept. 26 | 15.98 | | |

45-14-1 (*1017, p. 213; 1024, p. 118; 1072, p. 142). City of Louisville well A-2. In Lincoln Park, on South 4th Street at Guthrie Street.

Daily noon water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 70.74 | 69.91 | 69.52 | ..... | 69.34 | 73.32 | 78.00 | 80.26 | 81.98 | 79.14 | 77.5 | 74.64 |
| 2 | 70.69 | 69.92 | 69.30 | ..... | 69.39 | 73.50 | 78.23 | 80.31 | 81.99 | 78.94 | 77.34 | 74.59 |
| 3 | 70.66 | 69.84 | 69.30 | ..... | 69.42 | 73.45 | 78.38 | 80.22 | 82.12 | 78.68 | 77.20 | 74.54 |
| 4 | 70.60 | 69.84 | 69.29 | ..... | 69.39 | 73.61 | 78.37 | 80.15 | 82.33 | 78.59 | 77.08 | 74.49 |
| 5 | 70.52 | 69.82 | 69.29 | ..... | 69.40 | 73.90 | 78.23 | 80.29 | 82.42 | 78.52 | 76.87 | 74.44 |
| 6 | 70.47 | 69.78 | 69.28 | ..... | 69.48 | 74.27 | 78.19 | 80.45 | 82.56 | 78.46 | 78.70 | 74.39 |
| 7 | 70.46 | 69.76 | 69.28 | 69.23 | 69.56 | 74.57 | 78.20 | 80.65 | 82.42 | 78.78 | 76.58 | 74.34 |
| 8 | 70.46 | 69.75 | 69.24 | 69.15 | 69.50 | 74.75 | 78.42 | 80.72 | 82.26 | 79.07 | 76.49 | 74.28 |
| 9 | 70.45 | 69.74 | 69.24 | 69.15 | 69.52 | 74.93 | 78.62 | 80.83 | 82.42 | 79.16 | 76.46 | 74.23 |
| 10 | 70.39 | 69.73 | 69.23 | 69.14 | 69.48 | 75.27 | 78.68 | 80.75 | 82.53 | 78.78 | 76.28 | 74.20 |
| 11 | 70.34 | 69.71 | 69.18 | 69.11 | 69.40 | 75.65 | 78.78 | 80.77 | 82.62 | 78.55 | 76.2 | 74.17 |
| 12 | 70.33 | 69.70 | 69.17 | 69.16 | 69.40 | 75.91 | 76.91 | 80.90 | 82.62 | 78.44 | 76.2 | 74.13 |
| 13 | 70.29 | 69.67 | 69.13 | 69.15 | ..... | 76.18 | 78.86 | 81.01 | 82.75 | 78.63 | 76.1 | 74.07 |
| 14 | 70.24 | 69.64 | 69.13 | 69.09 | ..... | 76.39 | 78.82 | 81.20 | 82.57 | 78.81 | 75.95 | 73.97 |
| 15 | 70.23 | 69.63 | 69.13 | 69.04 | ..... | 76.36 | 79.01 | 81.55 | 82.41 | ..... | 75.83 | 73.84 |
| 16 | 70.20 | 69.60 | 69.12 | 69.05 | ..... | 76.39 | 79.17 | 81.45 | 82.24 | ..... | 75.8 | 73.77 |
| 17 | 70.18 | 69.58 | 69.09 | 69.09 | ..... | 76.50 | 79.31 | 81.36 | 81.87 | ..... | 75.68 | 73.73 |
| 18 | 70.13 | 69.56 | 69.08 | 69.06 | ..... | 76.66 | 79.47 | 81.53 | 81.78 | ..... | 75.58 | 73.67 |
| 19 | 70.11 | 69.53 | 69.08 | 69.13 | 72.09 | ..... | 79.59 | 81.45 | 82.04 | ..... | 75.49 | 73.61 |
| 20 | 70.04 | 69.49 | 69.08 | 69.13 | 72.22 | ..... | 79.55 | 81.58 | 82.08 | 78.49 | 75.41 | 73.59 |
| 21 | 70.11 | 69.48 | 69.04 | 69.12 | 72.37 | ..... | 79.48 | 81.70 | 82.12 | 78.43 | 75.32 | 73.54 |
| 22 | 70.07 | 69.46 | 69.04 | 69.09 | 72.37 | ..... | 79.49 | 81.83 | 81.86 | 78.5 | 75.24 | 73.48 |
| 23 | 70.02 | 69.42 | 69.03 | 69.08 | 72.74 | 77.00 | 79.43 | 81.91 | 81.56 | 78.4 | 75.17 | 73.45 |
| 24 | 69.99 | 69.40 | 68.99 | 69.17 | 72.96 | 77.17 | 79.45 | 81.86 | 81.21 | 78.4 | 75.11 | 73.42 |
| 25 | 69.98 | 69.40 | 69.03 | 69.20 | 73.06 | 77.21 | 79.56 | 81.74 | 80.87 | 78.4 | 74.95 | 73.40 |
| 26 | 69.98 | 69.38 | 69.04 | 69.20 | 72.82 | 77.38 | 79.71 | 81.92 | 80.57 | 78.3 | 74.91 | 73.37 |
| 27 | 69.95 | 69.37 | 69.03 | 69.22 | 73.29 | 77.58 | 79.66 | 82.06 | 80.23 | 78.25 | 74.88 | 73.32 |
| 28 | 69.95 | 69.35 | 69.00 | 69.14 | 73.62 | 77.78 | 79.61 | 82.16 | 79.82 | ..... | 74.85 | 73.29 |
| 29 | 69.92 | ..... | 68.99 | 69.10 | 73.82 | 77.75 | 79.83 | 82.28 | 79.52 | ..... | 74.82 | 73.23 |
| 30 | 69.91 | ..... | 68.98 | 69.18 | 73.41 | 77.76 | 79.95 | 82.34 | 79.31 | ..... | 74.72 | 73.21 |
| 31 | 69.92 | ..... | 68.97 | ..... | 73.03 | ..... | 80.09 | 82.24 | ..... | 77.55 | ..... | 73.16 |

a Tape measurement at another hour.

e Estimated.

45-14-2 (*1017, p. 217; 1024, p. 119; 1072, p. 142). City of Louisville well A-1. About 40 feet east of South 4th Street, on northeast corner of intersection of South 4th and York Streets.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 13 | 64.73 | June 16 | 66.14 | Aug. 11 | 68.16 | Oct. 20 | 69.08 |
| Feb. 19 | 64.10 | 19 | 66.34 | 18 | 68.45 | 29 | 69.04 |
| Mar. 19 | 63.75 | 23 | 66.27 | 25 | 68.74 | Nov. 10 | 68.70 |
| Apr. 30 | 63.45 | 30 | 66.40 | Sept. 8 | 69.24 | 17 | 68.38 |
| May 20 | 64.18 | July 7 | 66.73 | 15 | 69.48 | 24 | 68.04 |
| 23 | 64.42 | 14 | 67.02 | 22 | 69.58 | Dec. 1 | 67.76 |
| 26 | 64.64 | 18 | 67.24 | 30 | 69.40 | 8 | 67.52 |
| June 2 | 65.06 | 28 | 67.59 | Oct. 6 | 69.19 | 31 | 66.78 |
| 9 | 65.45 | Aug. 4 | 67.89 | 13 | 69.09 | | |

45-14-3 (*1017, p. 218; 1024, p. 119; 1072, p. 143). Thompson's Restaurant. At 668 South 4th Street.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 14 | 66.97 | Apr. 25 | 65.87 | July 18 | 73.60 | Nov. 1 | 73.23 |
| Feb. 19 | 66.28 | May 23 | 68.12 | Sept. 30 | 74.36 | Dec. 31 | 69.57 |
| Mar. 19 | 65.88 | June 19 | 71.44 | | | | |

45-14-4 (*1017, p. 219; 1024, p. 119; 1072, p. 143). Blue Boar Cafeteria. At 644 South 4th Street. Well dry at 66.7 feet below land-surface datum; measurements discontinued.

45-14-58 (*1024, p. 120; 1072, p. 143). Kentucky Dairies. At 981 South 3d Street.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 13 | 64.86 | Apr. 25 | 64.06 | July 17 | 65.48 | Nov. 1 | 67.39 |
| Feb. 19 | 64.45 | May 23 | 64.19 | Sept. 30 | 67.16 | Dec. 31 | 66.69 |
| Mar. 19 | 64.22 | June 19 | 64.76 | | | | |

45-15-2 (*1017, p. 222; 1024, p. 120; 1072, p. 143). City of Louisville well B-2. In sidewalk at southwest corner of South 9th and Congress Streets.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 13 | 62.89 | Apr. 24 | 61.71 | July 18 | 63.79 | Oct. 29 | 66.71 |
| Feb. 19 | 62.34 | May 22 | 61.77 | Aug. 29 | 65.38 | Dec. 29 | 65.98 |
| Mar. 19 | 61.97 | June 18 | 62.51 | Sept. 26 | 66.38 | | |

45-15-3 (*1017, p. 224; 1024, p. 120; 1072, p. 143). City of Louisville well B-3. In sidewalk at southwest corner of South 8th and Cedar Streets.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 13 | 69.78 | Apr. 24 | 68.44 | July 18 | 71.71 | Oct. 29 | 74.40 |
| Feb. 19 | 69.12 | May 22 | 68.70 | Aug. 29 | 73.58 | Dec. 29 | 72.91 |
| Mar. 19 | 68.72 | June 18 | 70.03 | Sept. 26 | 74.57 | | |

45-15-4 (*1017, p. 226; 1024, p. 120; 1072, p. 143). City of Louisville well A-3. In southeast corner of Jefferson County Courthouse yard.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 13 | 69.78 | June 16 | 72.14 | Aug. 11 | 75.68 | Oct. 13 | 76.09 |
| Feb. 19 | 69.11 | 19 | 72.43 | 18 | 76.10 | 29 | 76.02 |
| Mar. 19 | 68.72 | 23 | 72.63 | 25 | 76.49 | Nov. 10 | 74.97 |
| Apr. 24 | 68.50 | 30 | 73.11 | 29 | 76.80 | 17 | 74.50 |
| May 20 | 69.58 | July 7 | 73.44 | Sept. 8 | 77.20 | 24 | 74.10 |
| 23 | 69.99 | 14 | 73.99 | 15 | 77.46 | Dec. 1 | 73.79 |
| 26 | 70.15 | 18 | 74.41 | 22 | 77.48 | 8 | 73.50 |
| June 2 | 70.47 | 29 | 74.84 | 26 | 77.16 | 29 | 72.77 |
| 9 | 71.18 | Aug. 4 | 75.19 | Oct. 6 | 76.20 | | |

46-11-2 (*1024, p. 120; 1072, p. 144). Rubber Reserve Co. well RR-25. Northeast corner of intersection of Taylor Boulevard and Hathaway Street.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 49.27 | Apr. 11 | 49.71 | Aug. 6 | 49.47 | Oct. 22 | 49.37 |
| Feb. 13 | 49.40 | June 12 | 49.78 | Sept. 24 | 49.33 | Dec. 17 | 49.66 |
| Mar. 17 | 49.55 | July 10 | 49.63 | | | | |

46-13-1 (*1017, p. 230; 1024, p. 120; 1072, p. 144). Merchant's Ice & Cold Storage Co. At corner of South 7th and Magnolia Streets.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 10 | 75.98 | Apr. 30 | 76.13 | July 17 | 78.63 | Nov. 1 | 77.59 |
| Feb. 14 | 75.94 | May 23 | 76.21 | Sept. 11 | 79.48 | Dec. 30 | 77.35 |
| Mar. 14 | 75.94 | June 19 | 77.78 | | | | |

46-13-8 (*1017, p. 230; 1024, p. 121; 1072, p. 144). Brown & Williamson Tobacco Corporation well 4. At 1600 West Hill Street.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 10 | 80.11 | Mar. 14 | 80.34 | Sept. 5 | 80.70 | Dec. 30 | 81.32 |
| Feb. 14 | 80.25 | July 18 | 80.58 | Nov. 1 | 80.97 | | |

46-13-10 (*1017, p. 231; 1024, p. 121; 1072, p. 144). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Jan. 10 | 59.48 | Mar. 24 | 60.44 | June 12 | 60.24 | Sept. 24 | 61.08 |
| Feb. 17 | 60.04 | 31 | 60.41 | July 11 | 60.40 | Oct. 23 | 61.33 |
| Mar. 11 | 60.35 | Apr. 17 | 60.25 | Aug. 20 | 60.69 | Dec. 16 | 60.40 |
| 17 | 60.45 | May 20 | 60.22 | | | | |

46-14-1 (*1017, p. 232; 1024, p. 121; 1072, p. 144). American Tobacco Co. At intersection of 17th Street and Broadway.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 13 | 69.98 | Apr. 24 | 70.97 | July 18 | 74.20 | Oct. 29 | 75.53 |
| Feb. 18 | 70.37 | May 22 | 71.74 | Aug. 28 | 74.26 | Dec. 29 | 73.25 |
| Mar. 19 | 70.54 | June 18 | 73.03 | Sept. 26 | 75.04 | | |

46-14-9 (*1017, p. 233; 1024, p. 121; 1072, p. 144). Kentucky Public Elevator Co. At intersection of Gallagher and South 15th Streets. Measurements discontinued, well sealed.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 13 | 70.13 | Mar. 19 | 70.36 | May 22 | 70.60 | July 18 | 70.76 |
| Feb. 19 | 70.26 | Apr. 24 | 70.49 | June 18 | 70.69 | Aug. 29 | 71.02 |

47-11-1 (*1017, p. 233; 1024, p. 121; 1072, p. 144). Enterprise Coal & Ice Co. At 1847 Berry Boulevard. Measurements discontinued, well sealed.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|--------|-------------|
| Jan. 10 | 51.27 | Mar. 17 | 51.72 | June 12 | 52.07 | Aug. 6 | 51.63 |
| Feb. 13 | 51.53 | Apr. 11 | 52.02 | July 10 | 51.94 | | |

47-11-4 (*1024, p. 121; 1072, p. 144). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 45.47 | Apr. 11 | 46.03 | Aug. 6 | 45.70 | Oct. 22 | 45.94 |
| Feb. 13 | 45.71 | June 12 | 45.98 | Sept. 24 | 45.66 | Dec. 17 | 45.94 |
| Mar. 17 | 45.87 | July 10 | 45.55 | | | | |

47-12-1 (*1017, p. 233; 1024, p. 121; 1072, p. 145). City of Louisville well C-5. Dixie Highway, at Frankfort Distillers.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Jan. 10 | 62.24 | Mar. 17 | 63.30 | June 13 | 64.03 | Sept. 23 | 63.84 |
| Feb. 17 | 62.76 | Apr. 11 | 63.90 | July 11 | 64.04 | Oct. 22 | 64.98 |
| 28 | 63.00 | May 20 | 64.04 | Aug. 20 | 63.61 | Dec. 17 | 61.91 |

47-12-2 (*1017, p. 235; 1024, p. 122; 1072, p. 145). City of Louisville well C-6. 7th Street Road at George's Tavern, 0.5 mile south of Arcade Avenue.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 10 | 51.52 | Apr. 11 | 52.92 | July 11 | 52.84 | Oct. 22 | 53.96 |
| Feb. 17 | 52.14 | May 20 | 53.12 | Aug. 20 | 52.56 | Dec. 17 | 51.73 |
| Mar. 17 | 52.52 | June 13 | 53.15 | Sept. 23 | 53.02 | | |

47-12-3 (*1017, p. 237; 1024, p. 123; 1072, p. 145). City of Louisville well C-7. At end of Weyler Avenue.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Jan. 10 | 45.39 | Mar. 24 | 46.21 | June 12 | 46.70 | Sept. 24 | 46.58 |
| Feb. 13 | 45.88 | 31 | 46.38 | July 10 | 46.50 | Oct. 22 | 46.95 |
| Mar. 11 | 46.22 | Apr. 11 | 46.46 | Aug. 20 | 46.35 | Dec. 17 | 46.40 |
| 17 | 46.27 | May 20 | 46.70 | | | | |

47-12-4 (*1017, p. 239; 1024, p. 122; 1072, p. 145). Joseph E. Seagram & Sons Co. test well 2. In Seagram parking lot in southwestern corner of intersection of Wathens Lane and 7th Street Road.

Daily noon water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 68.39 | 71.72 | 73.67 | 62.55 | ..... | 65.56 | 67.13 | 73.41 | 69.82 | 70.76 | 67.64 | 64.30 |
| 2 | 67.8 | 68.08 | 70.17 | 62.51 | ..... | 65.90 | 66.41 | 74.32 | 71.52 | 70.81 | 67.27 | 63.78 |
| 3 | ..... | 69.53 | 70.92 | 62.52 | ..... | 66.41 | 67.73 | 71.15 | 73.15 | 70.55 | 66.77 | 63.85 |
| 4 | ..... | 71.69 | 72.8 | 62.43 | 65.87 | 66.02 | 66.12 | 71.52 | 73.29 | 69.95 | 67.59 | 63.56 |
| 5 | ..... | 71.84 | 72.91 | 62.36 | 66.77 | 66.47 | 65.33 | 74.17 | 73.05 | 68.13 | 67.22 | 63.44 |
| 6 | 66.90 | 72.30 | 74.21 | 62.44 | 67.3 | 66.65 | 64.87 | 75.07 | 72.97 | 69.93 | 66.98 | 63.42 |
| 7 | 68.47 | 73.2 | 74.01 | 62.43 | 66.37 | 67.77 | 65.44 | 75.58 | 71.26 | 70.82 | 67.56 | 63.32 |
| 8 | 68.27 | 73.42 | 75.82 | 63.09 | 67.10 | 66.37 | 66.36 | 76.01 | 71.42 | 70.46 | 67.22 | 63.27 |
| 9 | 67.3 | 69.67 | 71.41 | 65.89 | 67.7 | 66.95 | 65.80 | 74.93 | 71.99 | 71.51 | 66.35 | 63.26 |
| 10 | 67.72 | 70.3 | 70.97 | 65.77 | 67.4 | 67.40 | ..... | 71.40 | 73.28 | 71.56 | 66.34 | 63.16 |
| 11 | 67.74 | 71.49 | 67.97 | 66.33 | 65.44 | 69.79 | ..... | 73.02 | 73.54 | 70.75 | 35.87 | 63.13 |
| 12 | 65.57 | 72.75 | 67.22 | 66.55 | 66.2 | 69.20 | ..... | 74.88 | 74.07 | 69.46 | 66.23 | 63.08 |
| 13 | 66.2 | 73.38 | 66.55 | 66.40 | 67.00 | 71.27 | ..... | 75.59 | 72.97 | 70.02 | 65.45 | 63.42 |
| 14 | 67.43 | 73.67 | 64.68 | 66.84 | 66.40 | 71.02 | 66.11 | 75.78 | 70.26 | 71.11 | 65.40 | 62.99 |
| 15 | 67.79 | 74.55 | 63.80 | 67.61 | 66.52 | 67.78 | 67.56 | 76.12 | 71.97 | 71.81 | 65.42 | 62.87 |
| 16 | 67.5 | 70.44 | 62.87 | 67.12 | 66.84 | 67.55 | 67.64 | 76.34 | 72.41 | 72.15 | 65.34 | 62.89 |
| 17 | 68.8 | 70.6 | 62.38 | 67.28 | 67.13 | 67.77 | 68.63 | 72.99 | 72.77 | 72.58 | 65.03 | 62.76 |
| 18 | 69.60 | 72.6 | 61.92 | 66.56 | 65.63 | 67.92 | 68.92 | 71.81 | 72.92 | 72.96 | 65.21 | 62.70 |
| 19 | 67.1 | 74.14 | 61.54 | 66.48 | 66.72 | 69.96 | 69.27 | 73.05 | 73.62 | 70.14 | 64.84 | 62.67 |
| 20 | 67.82 | 73.36 | 62.93 | 65.27 | 67.05 | 69.25 | 66.71 | 69.73 | 73.75 | 71.81 | 65.19 | 62.74 |
| 21 | 69.09 | 71.90 | 63.25 | 65.48 | 66.6 | 68.32 | 67.50 | 68.44 | 70.83 | 73.01 | 64.67 | 62.62 |
| 22 | 70.06 | 71.55 | 63.35 | 66.05 | 66.6 | 66.66 | 68.31 | 69.23 | 70.79 | 73.27 | 64.55 | 62.52 |
| 23 | 69.6 | 68.77 | 63.30 | 66.66 | 66.7 | 67.23 | 68.93 | 68.87 | 70.17 | 73.73 | 64.46 | 62.70 |
| 24 | 69.57 | 70.32 | 62.46 | 66.77 | 66.9 | 68.28 | 68.69 | 68.67 | 71.27 | 74.46 | 64.75 | 62.50 |
| 25 | 70.85 | 71.27 | 61.08 | 67.06 | 65.75 | 67.83 | 69.37 | 68.67 | 71.77 | 74.76 | 64.25 | 62.42 |
| 26 | 67.28 | 73.65 | 61.43 | 67.82 | 66.10 | 68.46 | 69.10 | 68.73 | 72.23 | 71.35 | 64.20 | 62.35 |
| 27 | 69.07 | 72.52 | 62.16 | 65.70 | 67.59 | 68.86 | 66.82 | 69.22 | 71.70 | 70.36 | 64.07 | 62.29 |
| 28 | 71.34 | 73.92 | 62.42 | 65.70 | 67.2 | 67.52 | 68.31 | 70.50 | 69.36 | 70.21 | 64.10 | 63.41 |
| 29 | 71.2 | ..... | 62.51 | ..... | 67.21 | 66.28 | 69.58 | 71.06 | 69.92 | 70.02 | 64.60 | 62.95 |
| 30 | 69.62 | ..... | 62.58 | ..... | 66.99 | 66.92 | 69.86 | 70.46 | 70.70 | 69.12 | 64.04 | 62.57 |
| 31 | 71.32 | ..... | 62.57 | ..... | 66.79 | ..... | 71.27 | 68.97 | ..... | 68.99 | ..... | 63.02 |

a Tape measurement at another hour.

47-12-6 (*1017, p. 240; 1024, p. 123; 1072, p. 146). Joseph E. Seagram & Sons Co. In brick pumphouse near center of Seagram's parking lot, at intersection of 7th Street Road and Wathens Lane. During periods Mar. 11-Mar. 19, and Mar. 24-Mar. 26 well was recharged with city of Louisville's surface-water supply.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Jan. 10 | 69.71 | Mar. 17 | 58.7 | May 20 | 69.33 | Sept. 23 | 71.88 |
| Feb. 17 | 75.37 | 24 | 63.57 | June 13 | 76.98 | Oct. 23 | 77.31 |
| Mar. 10 | 78.17 | 31 | 62.90 | July 11 | 67.91 | Dec. 16 | 63.18 |
| 11 | 69.40 | Apr. 17 | 70.07 | Aug. 20 | 70.39 | | |

n Not pumping.

47-12-14 (*1017, p. 242; 1024, p. 123; 1072, p. 146). National Distillers Products Corporation test well 2. At Old Grand Dad Distillery on Bernheim Lane.

Water level, in feet below land-surface datum, 1947

| Jan. 10 | 60.10 | Mar. 24 | 60.38 | June 12 | 61.52 | Sept. 24 | 63.65 |
|---------|-------|---------|-------|---------|-------|----------|-------|
| Feb. 17 | 62.35 | 31 | 59.81 | July 11 | 61.21 | Oct. 23 | 63.74 |
| Mar. 11 | 63.05 | Apr. 17 | 60.26 | Aug. 21 | 65.75 | Dec. 16 | 59.76 |
| 17 | 61.74 | May 20 | 60.52 | | | | |

p Pumping.

47-12-15 (*1017, p. 243; 1024, p. 123; 1072, p. 146). National Distillers Products Corporation test well 4. At Old Grand Dad distillery on Bernheim Lane.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Jan. 10 | 59.20 | Mar. 24 | 60.86 | June 12 | 60.30 | Sept. 24 | 62.00 |
| Feb. 17 | 59.81 | 31 | 60.84 | July 11 | 60.60 | Oct. 23 | 62.42 |
| Mar. 11 | 60.56 | Apr. 17 | 60.69 | Aug. 21 | 61.15 | Dec. 16 | 62.10 |
| 17 | 60.74 | May 20 | 60.57 | | | | |

47-12-16 (*1017, p. 244; 1024, p. 123; 1072, p. 146). National Distillers Products Corporation test well 1. At Old Grand Dad distillery on Bernheim Lane.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Jan. 10 | 59.32 | Mar. 24 | 60.83 | June 12 | 60.63 | Sept. 24 | 62.73 |
| Feb. 17 | 60.85 | 31 | 60.41 | July 11 | 60.89 | Oct. 23 | 62.78 |
| Mar. 11 | 61.68 | Apr. 17 | 60.06 | Aug. 21 | 62.34 | Dec. 16 | 60.30 |
| 17 | 61.52 | May 20 | 60.26 | | | | |

47-12-19. Brown-Forman Distillers Corporation well 1. In southeast corner of fermentation room at Early Times distillery, about 0.3 mile east of Dixie Highway and about 1 mile south of Bernheim Lane. Abandoned drilled industrial well, diameter 6 inches, depth 104 feet. Measuring point, top of casing, 0.63 foot above land-surface datum and 457.44 feet above mean sea level.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Mar. 14 | 58.62 | Mar. 31 | 58.39 | June 13 | 58.15 | Sept. 24 | 58.89 |
| 17 | 58.40 | Apr. 17 | 58.72 | July 11 | 58.74 | Oct. 23 | 60.46 |
| 24 | 58.39 | May 20 | 58.87 | Aug. 20 | 58.74 | Dec. 16 | 56.97 |

47-12-20 (*1017, p. 245; 1024, p. 124; 1072, p. 146). Brown-Forman Distillers Corporation test well 1. At Early Times distillery on Dixie Highway.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Jan. 10 | 53.19 | Mar. 17 | 54.42 | May 20 | d 54.8 | Sept. 24 | d 54.8 |
| Feb. 17 | 53.45 | 24 | 54.45 | June 13 | 54.60 | Oct. 23 | d 54.8 |
| 28 | 53.78 | 31 | 54.45 | July 11 | d 54.8 | Dec. 16 | 53.49 |
| Mar. 11 | 54.13 | Apr. 17 | d 54.8 | Aug. 20 | 54.8 | | |

d Dry at this depth, well obstructed.

47-13-8 (*1017, p. 246; 1024, p. 124; 1072, p. 146). National Distillers Products Corporation test well 3. At Old Grand Dad distillery on Bernheim Lane.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Jan. 10 | 59.74 | Mar. 24 | 61.90 | June 12 | 61.48 | Sept. 24 | 62.89 |
| Feb. 17 | 60.72 | 31 | 61.98 | July 11 | 62.07 | Oct. 23 | 63.23 |
| Mar. 11 | 61.59 | Apr. 17 | 61.60 | Aug. 21 | 62.23 | Dec. 16 | 61.14 |
| 17 | 61.86 | May 20 | 61.45 | | | | |

47-13-11 (*1017, p. 247; 1024, p. 124; 1072, p. 147). Joseph E. Seagram & Sons Co. test well 3. On Seagram property at 7th Street Road and Wathens Lane.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Jan. 10 | 65.18 | Mar. 24 | 65.41 | May 20 | 65.57 | Sept. 23 | 66.07 |
| Feb. 17 | 65.21 | 31 | 65.44 | June 13 | 65.66 | Oct. 23 | 66.31 |
| Mar. 11 | 65.34 | Apr. 17 | 65.45 | July 11 | 65.77 | Dec. 16 | 66.37 |
| 17 | 65.37 | | | | | | |

47-14-10 (*1017, p. 247; 1024, p. 124; 1072, p. 147). National Distillers Products Corporation. At Old Sunnybrook plant at 28th Street and Broadway.

47-14-10--Continued.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 13 | 68.70 | Apr. 24 | 69.72 | July 18 | 70.57 | Oct. 29 | 72.68 |
| Feb. 18 | 69.22 | May 22 | 69.75 | Aug. 28 | 71.40 | Dec. 29 | 72.13 |
| Mar. 19 | 69.29 | June 18 | 70.06 | Sept. 26 | 72.08 | | |

47-14-11 (*1017, p. 248; 1024, p. 124; 1072, p. 147). Brown-Forman Distillers Corporation. At 1901 West Howard Street. No measurements made in 1947.

47-15-1 (*1017, p. 248; 1024, p. 125; 1072, p. 147). City of Louisville well M-3. On southwest corner of 28th and Jefferson Streets.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 13 | 40.49 | Apr. 23 | 40.63 | July 18 | 40.46 | Oct. 29 | 40.42 |
| Feb. 18 | 40.55 | May 22 | 40.65 | Aug. 28 | 40.36 | Dec. 29 | 40.58 |
| Mar. 19 | 40.61 | June 18 | 40.58 | Sept. 25 | 40.35 | | |

48-11-1 (*1017, p. 249; 1024, p. 125; 1072, p. 147). Charles Matheis. On Matheis Lane, 0.5 mile west of Dixie Highway.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 8 | 52.15 | Apr. 16 | 52.61 | Aug. 14 | 52.07 | Oct. 22 | 52.24 |
| Feb. 13 | 52.33 | June 12 | 52.54 | Sept. 24 | 52.05 | Dec. 17 | 52.50 |
| Mar. 13 | 52.46 | July 10 | 52.21 | | | | |

48-12-1 (*1017, p. 250; 1024, p. 125; 1072, p. 147). 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, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 10 | 61.03 | Apr. 11 | 61.56 | July 11 | 61.69 | Oct. 22 | 61.97 |
| Feb. 17 | 61.27 | May 20 | 61.67 | Aug. 21 | 61.77 | Dec. 17 | 60.82 |
| Mar. 17 | 61.41 | June 13 | 61.80 | Sept. 23 | 61.89 | | |

48-12-2 (*1017, p. 251; 1024, p. 125; 1072, p. 147). 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, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 10 | 72.23 | Apr. 11 | 72.87 | July 11 | 72.70 | Oct. 22 | 73.30 |
| Feb. 17 | 72.53 | May 20 | 73.09 | Aug. 21 | 72.95 | Dec. 17 | 72.34 |
| May 17 | 72.77 | June 13 | 73.16 | Sept. 23 | 73.12 | | |

48-12-15 (*1024, p. 125; 1072, p. 147). 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, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 8 | 50.17 | Apr. 16 | 50.54 | Aug. 14 | 49.99 | Oct. 22 | 50.19 |
| Feb. 13 | 50.32 | June 12 | 50.41 | Sept. 24 | 50.02 | Dec. 17 | 50.45 |
| Mar. 13 | 50.40 | July 10 | 50.09 | | | | |

48-14-1 (*1072, p. 148). City of Louisville well M-4. At 38th Street and Greenwood Avenue.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 13 | 55.04 | Apr. 23 | 55.47 | July 17 | 55.75 | Oct. 29 | 56.42 |
| Feb. 18 | 55.23 | May 22 | 55.60 | Aug. 27 | 55.91 | Dec. 29 | 56.90 |
| Mar. 19 | 55.37 | June 18 | 55.71 | Sept. 25 | 56.14 | | |

48-15-19 (*1072, p. 148). Klarer Provision Co. 210 Amy Avenue. Well destroyed July 17, 1947; measurements discontinued.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|
| Jan. 13 | 45.41 | Mar. 19 | 45.60 | May 22 | 45.67 |
| Feb. 18 | 45.48 | Apr. 23 | 45.62 | June 18 | 45.55 |

49-10-1 (*1017, p. 254; 1024, p. 126; 1072, p. 149). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 38.50 | Apr. 10 | 38.56 | Aug. 7 | 37.70 | Oct. 22 | 38.14 |
| Feb. 12 | 38.48 | June 10 | 38.06 | Sept. 19 | 37.93 | Dec. 10 | 38.50 |
| Mar. 12 | 38.45 | July 10 | 37.74 | | | | |

49-11-1 (*1024, p. 126; 1072, p. 149). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 43.20 | Apr. 10 | 43.34 | Aug. 7 | 42.65 | Oct. 22 | 42.90 |
| Feb. 12 | 43.29 | June 10 | 43.04 | Sept. 19 | 42.73 | Dec. 10 | 43.19 |
| Mar. 12 | 43.50 | July 10 | 42.75 | | | | |

49-12-2 (*1017, p. 254; 1024, p. 126; 1072, p. 149). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 52.78 | Apr. 16 | 52.80 | Aug. 14 | 51.98 | Oct. 22 | 51.48 |
| Feb. 13 | 52.89 | June 12 | 52.51 | Sept. 24 | 51.64 | Dec. 18 | 51.20 |
| Mar. 13 | 52.79 | July 12 | 52.25 | | | | |

49-12-3 (*1017, p. 254; 1024, p. 126; 1072, p. 149). Mrs. Ridley. East of white house, 0.35 mile south of intersection of Cane Run Road and Ridley's Court.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 45.82 | Apr. 16 | 45.89 | Aug. 14 | 44.88 | Oct. 22 | 45.34 |
| Feb. 13 | 45.97 | June 12 | 45.41 | Sept. 24 | 45.14 | Dec. 18 | 45.18 |
| Mar. 13 | 46.30 | July 11 | 45.20 | | | | |

49-12-4 (*1024, p. 126; 1072, p. 149). Rubber Reserve Co. well RR-40. On southeast corner of intersection of Cane Run and Farnsley Roads.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 52.62 | Apr. 16 | 52.89 | Aug. 14 | 52.24 | Oct. 22 | 51.73 |
| Feb. 13 | 52.73 | June 12 | 52.73 | Sept. 24 | 51.92 | Dec. 18 | 51.56 |
| Mar. 13 | 52.75 | July 12 | 52.51 | | | | |

49-13-5 (*1024, p. 127; 1072, p. 149). Synthetic Rubber Co. test well 10. On Illinois Central Railroad Co. property, between Algonquin Parkway and Bells Lane, west of main switch to Bond Bros. tie plant.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 9 | 78.51 | Apr. 22 | 76.50 | July 16 | 75.96 | Oct. 24 | 75.40 |
| Feb. 14 | 77.50 | May 21 | 76.24 | Aug. 27 | 76.18 | Dec. 19 | 76.19 |
| Mar. 14 | 76.98 | June 18 | 75.98 | Sept. 25 | 75.72 | | |

n Not pumping.

49-13-22 (*1017, p. 255; 1024, p. 127; 1072, p. 149). Bond Bros. On the 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 9 | 68.24 | Apr. 18 | 66.56 | July 16 | 66.34 | Oct. 24 | 65.64 |
| Feb. 14 | 67.41 | May 21 | 66.26 | Aug. 27 | 65.87 | Dec. 19 | 65.91 |
| Mar. 14 | 66.97 | June 17 | 66.43 | Sept. 25 | 65.92 | | |

49-13-24 (*1017, p. 255; 1024, p. 127; 1072, p. 150). B. F. Goodrich Co. well 17. On koroseal plant property, on Bells Lane.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 9 | 74.99 | Apr. 22 | 73.41 | July 16 | 73.12 | Oct. 24 | 71.25 |
| Feb. 14 | 74.42 | May 21 | 72.82 | Aug. 26 | 73.04 | Dec. 19 | 71.67 |
| Mar. 14 | 73.80 | June 18 | 72.27 | Sept. 25 | 71.94 | | |

49-13-25. B. F. Goodrich Co. test well 2. 6 feet east of pump well 4, in southwest corner of koroseal plant, on Bells Lane, about 1 mile west of Cane Run Road. Drilled observation well, diameter 2 inches, depth 112.5 feet. Measuring point, top of casing, 0.4 foot above land-surface datum and 452.66 feet above mean sea level. Water levels, in feet below land-surface datum, 1947: Aug. 26, 74.96; Sept. 25, 72.94; Oct. 24, 71.38; Dec. 19, 68.62, not pumping.

49-13-26 (*1017, p. 256; 1024, p. 127; 1072, p. 150). B. F. Goodrich Co. test well 14. On koroseal plant property, on Bells Lane.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 9 | 72.08 | Apr. 22 | 69.71 | July 16 | 69.57 | Oct. 24 | 69.42 |
| Feb. 14 | 70.90 | May 21 | 69.89 | Aug. 26 | 69.84 | Dec. 19 | 68.84 |
| Mar. 14 | 70.45 | June 18 | 69.71 | Sept. 25 | 69.28 | | |

49-13-27 (*1017, p. 256; 1024, p. 127; 1072, p. 150). B. F. Goodrich Co. test well 15. On koroseal plant property, on Bells Lane.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 9 | 68.79 | Apr. 22 | 66.45 | July 16 | 66.29 | Oct. 24 | 65.98 |
| Feb. 14 | 67.63 | May 21 | 66.45 | Aug. 26 | 66.51 | Dec. 19 | 65.63 |
| Mar. 14 | 67.21 | June 18 | 66.40 | Sept. 25 | 66.05 | | |

49-13-28 (*1017, p. 256; 1024, p. 127; 1072, p. 150). Fish & Wildlife Service, U. S. Dept. of Interior. At Gibson Lane and Western Parkway.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 13 | 79.66 | Apr. 23 | 79.17 | July 17 | 78.48 | Oct. 29 | 78.69 |
| Feb. 18 | 78.63 | May 22 | 77.11 | Aug. 27 | 79.70 | Dec. 29 | 78.58 |
| Mar. 19 | 78.68 | June 18 | 77.46 | Sept. 25 | 79.93 | | |

n Not pumping.

49-13-34 (*1017, p. 257; 1024, p. 128; 1072, p. 150). B. F. Goodrich Co. pump well 4. On koroseal plant property, on Bells Lane. Measurements discontinued July 16, well covered by new pump.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 9 | 75.91 | Mar. 14 | 73.26 | May 21 | 73.85 | July 16 | 73.45 |
| Feb. 14 | 74.10 | Apr. 22 | 72.32 | June 18 | 73.92 | | |

49-13-40 (*1024, p. 128; 1072, p. 151). Rubber Reserve Co. well RR-26. On southeast corner of intersection of 39th Street and Algonquin Parkway.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 9 | 67.23 | Apr. 22 | 66.29 | July 16 | 65.91 | Oct. 24 | 65.94 |
| Feb. 14 | 66.79 | May 21 | 66.18 | Aug. 27 | 65.92 | Dec. 18 | 66.48 |
| Mar. 14 | 66.63 | June 17 | 66.02 | Sept. 25 | 65.98 | | |

49-13-41 (*1024, p. 128; 1072, p. 151). Synthetic Rubber Co. test well 12. On Illinois Central Railroad Co. property, south of Algonquin Parkway, and west of main switch to Bond Bros. tie plant.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 9 | 69.06 | Apr. 22 | 67.46 | July 16 | 66.86 | Oct. 24 | 66.10 |
| Feb. 14 | 68.04 | May 21 | 67.03 | Aug. 27 | 66.88 | Dec. 19 | 66.59 |
| Mar. 14 | 67.81 | June 18 | 66.87 | Sept. 25 | 66.61 | | |

49-14-6 (*1017, p. 257; 1024, p. 129; 1072, p. 151). Tube Turns. In Kentucky State Fairgrounds.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 13 | 64.16 | Apr. 23 | 64.15 | July 17 | 63.94 | Oct. 29 | 64.21 |
| Feb. 18 | 64.24 | May 22 | 64.06 | Aug. 28 | 63.93 | Dec. 29 | 64.36 |
| Mar. 19 | 64.19 | June 18 | 64.04 | Sept. 25 | 64.14 | | |

49-14-12 (*1017, p. 257; 1024, p. 129; 1072, p. 151). Louisville Refining Co. 1300 South Western Parkway.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 13 | 95.07 | Apr. 23 | n 74.71 | July 17 | 83.97 | Oct. 29 | n 76.44 |
| Feb. 18 | 93.63 | May 22 | 96.00 | Aug. 27 | 88.90 | Dec. 29 | 96.06 |
| Mar. 19 | 96.10 | June 18 | 86.96 | Sept. 25 | 90.16 | | |

n Not pumping.

50-9-1 (*1017, p. 257; 1024, p. 129; 1072, p. 151). William Genewein. Private road west of Upper Hunters Trace, 0.7 mile west of Dixie Highway. Measuring point raised 0.35 foot July 10, 1947. New measuring point, top edge of iron base of old pump, 0.65 foot above land-surface datum and 460.95 feet above mean sea level.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 8 | 46.20 | Apr. 10 | 46.53 | Aug. 7 | 46.05 | Oct. 21 | 46.18 |
| Feb. 12 | 46.36 | June 10 | 46.35 | Sept. 18 | 46.03 | Dec. 10 | 46.47 |
| Mar. 12 | 46.42 | July 10 | 46.15 | | | | |

50-9-4 (*1024, p. 129; 1072, p. 152). Rubber Reserve Co. well RR-37. On southwest corner of intersection of Lower Hunters Trace and Upper Hunters Trace.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 8 | 34.86 | Apr. 10 | 35.17 | Aug. 7 | 34.80 | Oct. 21 | 34.87 |
| Feb. 12 | 35.02 | June 10 | 35.07 | Sept. 18 | 34.75 | Dec. 10 | 35.14 |
| Mar. 12 | 35.09 | July 10 | 34.88 | | | | |

50-10-1 (*1017, p. 258; 1024, p. 130; 1072, p. 152). Robert Lee. On Luckert Avenue, about 0.3 mile east of August Avenue.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 8 | 26.04 | Apr. 10 | 26.19 | Aug. 13 | 25.77 | Oct. 22 | 25.98 |
| Feb. 13 | 26.11 | June 12 | 26.00 | Sept. 19 | 25.84 | Dec. 11 | 26.21 |
| Mar. 13 | 26.13 | July 10 | 25.86 | | | | |

50-10-2 (*1024, p. 130; 1072, p. 152). Rubber Reserve Co. well RR-30. On south side of Rockford Lane, 0.95 mile west of Dixie Highway.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 8 | 28.95 | Apr. 10 | 29.10 | Aug. 13 | 28.64 | Oct. 22 | 28.93 |
| Feb. 13 | 28.99 | June 12 | 28.77 | Sept. 19 | 28.77 | Dec. 10 | 29.20 |
| Mar. 13 | 29.06 | July 10 | 28.68 | | | | |

50-11-2 (*1024, p. 130; 1072, p. 152). Rubber Reserve Co. well RR-33. On southeast corner of intersection of Crums Lane and Cane Run Road.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 8 | 40.24 | Apr. 10 | 40.51 | Aug. 12 | 39.90 | Oct. 22 | 39.39 |
| Feb. 13 | 40.44 | June 12 | 40.40 | Sept. 17 | 39.59 | Dec. 11 | 39.32 |
| Mar. 13 | 40.44 | July 10 | 40.21 | | | | |

50-11-3 (*1024, p. 130; 1072, p. 152). Rubber Reserve Co. well RR-39. On north side of Schencks Lane, 0.5 mile west of Cane Run Road.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 8 | 51.07 | Apr. 10 | 50.91 | Aug. 12 | 49.43 | Oct. 22 | 49.12 |
| Feb. 13 | 51.25 | June 12 | 50.44 | Sept. 17 | 49.26 | Dec. 11 | 49.31 |
| Mar. 13 | 51.05 | July 10 | 49.99 | | | | |

50-12-12 (*1017, p. 258; 1024, p. 130; 1072, p. 152). Patrick Whelan. On Kramers Lane, 0.2 mile west of Cane Run Road.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 8 | 51.26 | Apr. 15 | 51.33 | Aug. 19 | 50.30 | Oct. 22 | 49.74 |
| Feb. 13 | 51.40 | June 12 | 51.08 | Sept. 24 | 49.94 | Dec. 18 | 49.51 |
| Mar. 13 | 51.24 | July 12 | 50.79 | | | | |

50-12-16 (*1024, p. 130; 1072, p. 152). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 59.72 | Apr. 15 | 58.14 | July 12 | 54.86 | Oct. 22 | 53.73 |
| Feb. 13 | 59.72 | May 20 | 57.55 | Aug. 19 | 54.04 | Dec. 18 | 54.09 |
| Mar. 13 | 58.60 | June 12 | 57.12 | Sept. 24 | 53.86 | | |

50-12-17 (*1024, p. 131; 1072, p. 153). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 9 | 61.94 | Apr. 18 | 60.50 | July 16 | 59.10 | Oct. 24 | 58.20 |
| Feb. 14 | 61.75 | May 22 | 60.26 | Aug. 22 | 58.62 | Dec. 18 | 57.74 |
| Mar. 14 | 61.21 | June 17 | 59.66 | Sept. 24 | 58.37 | | |

50-12-18 (*1024, p. 131; 1072, p. 153). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 9 | 69.21 | Apr. 18 | 68.23 | July 16 | 67.12 | Oct. 24 | 66.68 |
| Feb. 14 | 68.96 | May 22 | 67.91 | Aug. 22 | 67.07 | Dec. 18 | 66.10 |
| Mar. 14 | 68.69 | June 17 | 67.48 | Sept. 24 | 66.89 | | |

50-13-9 (*1072, p. 153). National Carbide Corporation pump well 10. On company property, on Bells Lane.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 9 | 72.88 | Apr. 22 | 70.28 | July 16 | 68.70 | Oct. 24 | 67.45 |
| Feb. 14 | 71.19 | May 21 | 69.53 | Aug. 26 | 69.09 | Dec. 19 | 68.55 |
| Mar. 14 | 70.80 | June 17 | 68.83 | Sept. 25 | 68.37 | | |

50-13-56 (*1024, p. 131; 1072, p. 153). Rubber Reserve Co. well RR-24. In E. I. du Pont de Nemours upper field, on south bank of Lower Paddy Run about 200 feet east of Ohio River bank.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 9 | 36.19 | Apr. 18 | 32.29 | July 16 | 41.16 | Oct. 24 | 43.24 |
| Feb. 14 | 38.84 | May 22 | 35.36 | Aug. 22 | 42.49 | Dec. 18 | 41.58 |
| Mar. 14 | 41.29 | June 17 | 32.38 | Sept. 24 | 42.99 | | |

50-13-58. National Carbide Corporation test well. On company property, on Bells Lane, in pump house 10, about 500 feet west of guard house. Drilled observation well, diameter 6 inches, depth 99.0 feet. Measuring point, top of concrete floor, 0.5 foot above land-surface datum and 450.79 feet above mean sea level.

Daily noon water level, in feet below land-surface datum, 1945, 1947

| Date | Water level | Date | Water level | Date | Water level |
|----------------|-------------|----------------|-------------|---------------|-------------|
| Sept. 22, 1945 | 77.16 | Sept. 30, 1945 | 76.88 | Oct. 7, 1945 | 76.74 |
| 23 | 77.12 | Oct. 1 | 76.82 | 8 | 76.77 |
| 24 | 77.20 | 2 | 76.87 | 9 | 76.75 |
| 25 | 77.07 | 3 | 76.84 | Aug. 26, 1947 | a 68.91 |
| 26 | 77.09 | 4 | 76.78 | Sept. 25 | a 68.22 |
| 27 | 77.03 | 5 | 76.73 | Oct. 24 | a 67.29 |
| 28 | 76.97 | 6 | 76.72 | Dec. 19 | a 68.39 |
| 29 | 77.02 | | | | |

a Tape measurement at another hour.

50-14-4 (*1024, p. 132; 1072, p. 154). Rubber Reserve Co. well RR-23. On Louisville Refining Co. property, at 1300 S. Western Parkway.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 13 | 75.58 | Apr. 23 | 75.28 | July 17 | 75.65 | Oct. 29 | 76.50 |
| Feb. 18 | 75.52 | May 22 | 75.26 | Aug. 27 | 76.01 | Dec. 29 | 76.46 |
| Mar. 19 | 75.57 | June 18 | 75.49 | Sept. 25 | 76.48 | | |

51-8-1 (*1017, p. 261; 1024, p. 132; 1072, p. 154). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 7 | 45.33 | Apr. 9 | 45.77 | Aug. 8 | 45.49 | Oct. 25 | 45.54 |
| Feb. 12 | 45.56 | June 10 | 45.76 | Sept. 17 | 45.46 | Dec. 9 | 45.73 |
| Mar. 12 | 45.64 | July 9 | 45.62 | | | | |

51-9-1 (*1017, p. 261; 1024, p. 133; 1072, p. 154). George Nagel. 0.1 mile west of intersection of Lower Hunters Trace and Upper Hunters Trace.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 45.36 | Apr. 10 | 45.70 | Aug. 7 | 45.33 | Oct. 21 | 45.38 |
| Feb. 12 | 45.54 | June 10 | 45.61 | Sept. 18 | 45.28 | Dec. 10 | 45.64 |
| Mar. 12 | 45.63 | July 10 | 45.41 | | | | |

51-10-1 (*1024, p. 133; 1072, p. 155). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 34.69 | Apr. 10 | 35.04 | Aug. 13 | 34.68 | Oct. 22 | 34.76 |
| Feb. 13 | 34.85 | June 12 | 34.95 | Sept. 19 | 34.64 | Dec. 11 | 34.99 |
| Mar. 13 | 34.93 | July 10 | 34.78 | | | | |

51-11-1 (*1017, p. 262; 1024, p. 133; 1072, p. 155). Thieneman Bros. On Camp Ground Road, 0.2 mile north of Lees Lane.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 54.75 | Apr. 15 | 54.58 | Aug. 19 | 53.57 | Oct. 21 | 54.02 |
| Feb. 13 | 54.79 | June 12 | 54.01 | Sept. 18 | 53.75 | Dec. 12 | 54.47 |
| Mar. 13 | 54.55 | July 12 | 53.55 | | | | |

51-11-2 (*1017, p. 262; 1024, p. 133; 1072, p. 155). Kaufman Bros. On Cane Run Road, 0.1 mile south of Lees Lane. Pump removed June 10, 1947. Measuring point lowered 2.85 feet. New measuring point, top of reducer, 0.35 foot above land-surface datum and 452.61 feet above mean sea level.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 48.41 | Apr. 10 | 48.82 | Aug. 7 | 48.14 | Oct. 21 | 48.22 |
| Feb. 12 | 48.66 | June 10 | 48.62 | Sept. 18 | 48.09 | Dec. 11 | 48.51 |
| Mar. 12 | 48.75 | July 10 | 48.34 | | | | |

51-11-4 (*1024, p. 133; 1072, p. 155). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 41.73 | Apr. 10 | 42.13 | Aug. 13 | 41.59 | Oct. 22 | 41.53 |
| Feb. 13 | 41.97 | June 12 | 42.01 | Sept. 18 | 41.47 | Dec. 11 | 41.76 |
| Mar. 13 | 42.05 | July 10 | 41.81 | | | | |

51-12-8 (*1017, p. 262; 1024, p. 133; 1072, p. 155). Lake Dreamland Country Club. On Lake Dreamland Road, 0.5 mile west of Camp Ground Road.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 47.66 | Apr. 15 | 40.44 | Aug. 19 | 48.04 | Oct. 21 | 51.26 |
| Feb. 13 | 44.36 | June 12 | 39.79 | Sept. 18 | 48.54 | Dec. 12 | 50.90 |
| Mar. 13 | 49.88 | July 12 | 46.52 | | | | |

51-12-9 (*1017, p. 262; 1024, p. 134; 1072, p. 155). E. W. Owen. At end of Fern Leaf Road, 0.7 mile northwest of Camp Ground Road.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Jan. 9 | 44.04 | Apr. 28 | 27.94 | June 17 | 39.90 | Sept. 24 | 55.61 |
| Feb. 14 | 48.43 | May 5 | 37.46 | July 16 | 53.83 | Oct. 24 | 56.72 |
| Mar. 14 | 54.48 | 20 | 44.75 | Aug. 22 | 55.00 | Dec. 18 | 54.99 |
| Apr. 18 | 1.02 | | | | | | |

51-12-12 (*1024, p. 134; 1072, p. 156). 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.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | b 56.37 | Apr. 15 | 51.41 | Aug. 19 | 63.77 | Oct. 21 | (b) |
| Feb. 13 | 61.85 | June 12 | 51.78 | Sept. 19 | 64.20 | Dec. 12 | 64.58 |
| Mar. 13 | 63.23 | July 12 | 63.28 | | | | |

b Obscured at about 66 feet.

51-13-1 (*1024, p. 135; 1072, p. 156). Rubber Reserve Co. well RR-21. On property of Carbide & Carbon Chemical Corporation, Camp Ground Road.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 9 | 47.65 | Apr. 18 | 43.81 | July 16 | 54.75 | Oct. 24 | 57.05 |
| Feb. 14 | 53.49 | May 22 | 47.28 | Aug. 22 | 55.87 | Dec. 18 | 55.13 |
| Mar. 14 | 54.02 | June 17 | 44.00 | Sept. 24 | 56.57 | | |

52-7-1 (*1017, p. 263; 1024, p. 135; 1072, p. 157). Lanson Beahl. Johnstown Road, 1.5 mile west of Dixie Highway.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 7 | 39.88 | Apr. 8 | 39.80 | Aug. 8 | 39.17 | Oct. 25 | 39.67 |
| Feb. 12 | 39.34 | June 10 | 39.46 | Sept. 17 | 39.39 | Dec. 9 | 40.19 |
| Mar. 12 | 39.86 | July 9 | 39.09 | | | | |

52-7-2 (*1024, p. 136; 1072, p. 157). Rubber Reserve Co. well RR-47. On south side of Johnstown Road, 0.84 mile west of Dixie Highway.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 7 | 40.12 | Apr. 8 | 40.47 | Aug. 8 | 40.06 | Oct. 25 | 40.13 |
| Feb. 12 | 40.35 | June 10 | 40.38 | Sept. 17 | 40.02 | Dec. 9 | 40.37 |
| Mar. 12 | 40.41 | July 9 | 40.20 | | | | |

52-8-1 (*1017, p. 263; 1024, p. 136; 1072, p. 157). Mrs. Anna Dohn. On private road, 0.45 mile south of Greenwood Road.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 7 | 46.37 | Apr. 9 | 46.84 | Aug. 8 | 46.57 | Oct. 25 | 46.58 |
| Feb. 12 | 46.62 | June 10 | 46.84 | Sept. 17 | 46.51 | Dec. 9 | 46.77 |
| Mar. 12 | 46.70 | July 9 | 46.69 | | | | |

52-8-2 (*1024, p. 136; 1072, p. 157). Rubber Reserve Co. well RR-38. On south side of Greenwood Road, 500 feet east of Sylvania Road.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 7 | 41.51 | Apr. 9 | 41.74 | Aug. 8 | 41.10 | Oct. 25 | 41.44 |
| Feb. 12 | 41.72 | June 10 | 41.47 | Sept. 17 | 41.24 | Dec. 9 | 41.81 |
| Mar. 12 | 41.69 | July 9 | 41.26 | | | | |

52-10-2 (*1017, p. 264; 1024, p. 136; 1072, p. 157). H. F. Roggenkamp. On Lower River Road, 0.2 mile east of Lower Hunters Trace.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 8 | 46.99 | Apr. 10 | 46.29 | Aug. 7 | 45.56 | Oct. 25 | 46.53 |
| Feb. 12 | 46.44 | June 10 | 45.34 | Sept. 17 | 45.97 | Dec. 10 | 47.16 |
| Mar. 12 | 46.29 | July 9 | 45.04 | | | | |

52-10-3 (*1024, p. 136; 1072, p. 157). Rubber Reserve Co. well RR-36. On northeast corner of Murrays Lane and Lower Hunters Trace. No measurements made in 1947.

52-11-3 (*1017, p. 265; 1024, p. 137; 1072, p. 158). Rubber Reserve Co. well P-1. On Ohio River bank, north of Lees Lane.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 8 | 32.73 | Apr. 15 | 30.03 | Aug. 15 | 34.99 | Oct. 21 | 36.66 |
| Feb. 13 | 33.32 | June 12 | 28.30 | Sept. 18 | 35.81 | Dec. 12 | 36.94 |
| Mar. 13 | 34.61 | July 12 | 33.56 | | | | |

52-11-4 (*1017, p. 265; 1024, p. 137; 1072, p. 158). Rubber Reserve Co. well E-1. On terrace of Ohio River bank, north of Lees Lane. No measurements made in 1947.

52-11-5 (*1017, p. 265; 1024, p. 138; 1072, p. 159). Rubber Reserve Co. well E-2. Near church at west end of Lees Lane.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 55.32 | Apr. 15 | 52.33 | Aug. 19 | 56.42 | Oct. 21 | 58.11 |
| Feb. 13 | 54.69 | June 12 | 50.60 | Sept. 18 | 57.24 | Dec. 12 | 58.47 |
| Mar. 13 | 56.16 | July 12 | 54.84 | | | | |

52-11-6 (*1024, p. 139; 1072, p. 160). Rubber Reserve Co. well E-3. Near church at west end of Lees Lane. No measurements made in 1947.

52-11-7 (*1024, p. 139; 1072, p. 160). Rubber Reserve Co. well E-4. Near church at west end of Lees Lane.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 56.39 | Apr. 15 | 53.16 | Aug. 19 | 55.66 | Oct. 21 | 57.40 |
| Feb. 13 | 54.12 | June 12 | 51.41 | Sept. 18 | 56.50 | Dec. 12 | 57.96 |
| Mar. 13 | 55.75 | July 12 | 54.00 | | | | |

52-11-16 (*1017, p. 265; 1024, p. 140; 1072, p. 161). Rubber Reserve Co. well W-1. On Ohio River bank, north of Lees Lane.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 12.79 | Apr. 15 | 10.28 | Aug. 15 | 16.11 | Oct. 21 | 17.67 |
| Feb. 13 | 14.46 | June 12 | 8.48 | Sept. 18 | 16.87 | Dec. 12 | 17.83 |
| Mar. 13 | 15.50 | July 12 | 14.78 | | | | |

52-11-21 (*1024, p. 141; 1072, p. 161). Rubber Reserve Co. well RR-28. On corner of Lees Lane and Camp Ground Road.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 37.64 | Apr. 15 | 36.93 | Aug. 19 | 35.94 | Oct. 21 | 36.84 |
| Feb. 13 | 37.26 | June 12 | 36.04 | Sept. 18 | 36.34 | Dec. 12 | 37.48 |
| Mar. 13 | 36.80 | July 12 | 35.59 | | | | |

52-12-2 (*1024, p. 141; 1072, p. 162). Rubber Reserve Co. well RR-22. On property of Americus Petrall, on Ohio River bank, 0.1 mile south of Bramers Lane. Recorder installed Jan. 6, 1947. Measuring point raised 0.32 foot. New measuring point, top of recorder floor, 2.9 feet above land-surface datum and 437.19 feet above mean sea level. Automatic water-stage recorder maintained on well from Jan. 6 to Dec. 31.

Daily noon water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | ..... | 36.96 | 45.98 | 39.28 | 36.68 | 35.10 | 43.54 | 45.83 | 46.47 | 47.30 | 47.59 | 47.25 |
| 2 | ..... | 36.64 | 46.18 | 38.93 | 36.10 | 35.15 | 42.80 | 45.83 | 46.40 | 47.28 | 47.64 | 47.40 |
| 3 | ..... | 36.13 | 46.23 | 38.68 | 35.63 | 34.87 | 42.76 | 45.71 | 46.35 | 47.33 | 47.60 | 47.42 |
| 4 | ..... | 36.21 | 46.20 | 38.41 | 35.26 | 34.53 | 43.87 | 45.48 | 46.55 | 47.40 | 47.47 | 47.57 |
| 5 | ..... | 36.13 | 46.22 | 38.20 | 35.48 | 34.72 | 44.15 | 45.74 | 46.47 | 47.45 | 47.56 | 47.46 |
| 6 | 41.01 | 36.10 | 46.26 | 38.21 | 35.63 | 35.17 | 44.49 | 45.70 | 46.63 | 47.53 | 47.47 | 47.57 |
| 7 | 40.57 | 36.65 | 46.22 | 37.90 | 35.98 | 35.75 | 44.75 | 45.70 | 46.51 | 47.47 | 47.40 | 47.45 |
| 8 | 40.47 | 37.1 | 46.15 | 37.39 | 36.24 | 35.97 | 44.85 | 45.33 | 46.19 | 47.40 | 47.42 | 47.32 |
| 9 | 40.61 | 37.52 | 45.96 | 37.25 | 36.62 | 35.69 | 44.95 | 45.18 | 45.98 | 47.44 | 47.41 | 47.14 |
| 10 | 40.57 | 38.15 | 45.72 | 36.92 | 36.96 | 35.38 | 44.97 | 45.05 | 46.07 | 47.46 | 47.42 | 46.91 |
| 11 | 40.84 | 39.79 | 45.59 | 36.57 | 37.23 | 35.19 | 45.11 | 45.87 | 46.46 | 47.47 | 47.50 | 46.95 |
| 12 | 41.22 | 41.90 | 45.29 | 36.14 | 37.60 | 34.76 | 45.20 | ..... | 46.64 | 47.42 | 47.54 | 46.97 |
| 13 | 41.68 | 43.13 | 45.08 | 35.73 | 38.11 | 34.40 | 45.17 | ..... | 46.59 | 47.39 | 47.50 | 46.85 |
| 14 | 41.93 | 43.45 | 45.09 | 35.88 | 38.63 | 34.36 | 45.11 | ..... | 46.61 | 47.45 | 47.36 | 46.63 |
| 15 | 41.93 | 43.80 | 45.01 | 36.26 | 39.16 | 34.50 | ..... | ..... | 46.60 | 47.44 | 47.32 | 46.52 |
| 16 | 41.93 | 43.90 | 44.59 | 36.55 | 40.09 | 34.88 | ..... | ..... | 46.46 | 47.50 | 47.32 | ..... |
| 17 | 41.93 | 44.20 | 43.65 | 36.21 | 39.80 | 35.29 | ..... | ..... | 46.58 | 47.57 | 47.24 | ..... |
| 18 | 41.30 | 44.35 | 42.64 | 36.02 | 39.29 | 36.00 | ..... | 46.25 | 46.68 | 47.57 | 47.23 | ..... |
| 19 | 40.32 | 44.48 | 41.73 | 36.41 | 38.63 | 36.43 | ..... | 46.27 | 46.74 | 47.51 | 47.41 | ..... |
| 20 | 39.59 | 44.62 | 41.15 | 36.81 | 38.55 | 36.83 | ..... | 46.25 | 46.87 | 47.50 | 47.44 | ..... |
| 21 | 39.18 | 44.81 | 40.86 | 37.22 | 38.53 | 37.75 | 45.13 | 46.30 | 46.91 | 47.43 | 47.46 | ..... |
| 22 | 38.21 | 44.95 | 40.91 | 37.10 | 37.75 | 38.67 | 45.03 | 46.34 | 46.93 | 47.46 | 47.49 | 46.75 |

52-12-2--Continued.

Daily noon water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 23 | 37.55 | 45.20 | 40.89 | 37.06 | 36.67 | 39.97 | 44.80 | 46.15 | 46.97 | 47.53 | 47.45 | 47.01 |
| 24 | 37.14 | 45.51 | 41.01 | 37.26 | 35.95 | 41.11 | 45.33 | 45.96 | 46.96 | 47.53 | 47.51 | 47.17 |
| 25 | 36.76 | 45.53 | 41.66 | 37.30 | 35.46 | 42.43 | 45.52 | 45.76 | 47.12 | 47.53 | 47.55 | 47.24 |
| 26 | 36.78 | 45.72 | 41.82 | 37.34 | 34.61 | 42.79 | 45.54 | 46.17 | 47.08 | 47.61 | 47.32 | 47.30 |
| 27 | 36.90 | 45.85 | 41.64 | 36.85 | 34.18 | 43.24 | 45.67 | 46.07 | 47.20 | 47.65 | 47.05 | 47.35 |
| 28 | 37.33 | 45.92 | 41.32 | 36.86 | 34.22 | 43.51 | 45.65 | 46.13 | 47.13 | 47.54 | 46.87 | 47.51 |
| 29 | 37.50 | | 40.67 | 36.88 | 34.68 | 43.71 | 45.48 | 46.18 | 47.15 | 47.60 | 47.05 | 47.58 |
| 30 | 37.71 | | 40.21 | 37.05 | 34.83 | 43.71 | 45.34 | 46.28 | 47.22 | 47.60 | 47.15 | 47.60 |
| 31 | 37.72 | | 39.60 | | 34.97 | | 45.49 | 46.41 | | 47.58 | | 47.65 |

a Tape measurement at another hour.

e Estimated.

53-5-2 (*1017, p. 266; 1024, p. 142; 1072, p. 163). Mr. Weather. On residential property on Lower River Road, 0.35 mile north of Orell Road. Well obstructed; measurements discontinued Aug. 8, 1947.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|--------|-------------|
| Jan. 7 | 48.19 | Mar. 12 | 54.22 | June 10 | 43.88 | Aug. 8 | 54.38 |
| Feb. 12 | 47.50 | Apr. 8 | 44.94 | July 9 | 53.01 | | |

53-6-1 (*1024, p. 142; 1072, p. 163). Rubber Reserve Co. well RR-46. On south side of Bethany Lane, 0.27 mile east of Lower River Road. Recorder installed Oct. 15, 1947. Measuring point raised 0.17 foot. New measuring point, top of recorder floor, 1.17 feet above land-surface datum and 435.06 feet above mean sea level. Automatic water-stage recorder maintained on well from Oct. 15 to Dec. 31.

Daily noon water level, in feet below land-surface datum, 1947

(From recorder charts)

| | | | | | | | |
|----------|---------|---------|-------|---------|-------|---------|-------|
| Jan. 7 | a 33.53 | Oct. 29 | 33.35 | Nov. 20 | 33.67 | Dec. 11 | 33.88 |
| Feb. 12 | a 32.87 | 30 | 33.36 | 21 | 33.67 | 12 | 33.90 |
| Mar. 12 | a 32.69 | 31 | 33.36 | 22 | 33.68 | 13 | 33.90 |
| Apr. 8 | a 32.65 | Nov. 1 | 33.39 | 23 | 33.67 | 14 | 33.89 |
| June 10 | a 31.40 | 2 | 33.41 | 24 | 33.70 | 15 | 33.83 |
| July 9 | a 31.17 | 3 | 33.42 | 25 | 33.69 | 16 | 34.04 |
| Aug. 8 | a 31.83 | 4 | 33.44 | 26 | 33.74 | 17 | 33.93 |
| Sept. 17 | a 32.70 | 5 | 33.47 | 27 | 33.71 | 18 | 33.94 |
| Oct. 15 | a 33.08 | 6 | 33.47 | 28 | 33.79 | 19 | 33.98 |
| 16 | 33.14 | 7 | 33.42 | 29 | 33.80 | 20 | 33.95 |
| 17 | 33.17 | 8 | 33.48 | 30 | 33.80 | 21 | 33.97 |
| 18 | 33.19 | 9 | 33.56 | Dec. 1 | 33.75 | 22 | 33.95 |
| 19 | 33.23 | 10 | 33.49 | 2 | 33.79 | 23 | 34.05 |
| 20 | 33.25 | 11 | 33.57 | 3 | 33.79 | 24 | 34.01 |
| 21 | 33.26 | 12 | 33.56 | 4 | 33.78 | 25 | 33.99 |
| 22 | 33.27 | 13 | 33.59 | 5 | 33.82 | 26 | 34.03 |
| 23 | 33.29 | 14 | 33.54 | 6 | 33.84 | 27 | 34.01 |
| 24 | 33.30 | 15 | 33.58 | 7 | 33.77 | 28 | 34.08 |
| 25 | 33.34 | 16 | 33.64 | 8 | 33.91 | 29 | 34.04 |
| 26 | 33.31 | 17 | 33.65 | 9 | 33.87 | 30 | 34.08 |
| 27 | 33.29 | 18 | 33.62 | 10 | 33.84 | 31 | 34.07 |
| 28 | 33.31 | 19 | 33.65 | | | | |

a Tape measurement at another hour.

53-8-2 (*1024, p. 142; 1072, p. 163). Rubber Reserve Co. well RR-45. On Greenwood Road, 0.2 mile west of Lower River Road.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|----------|-------|---------|-------|
| Jan. 7 | 36.99 | Apr. 8 | 33.59 | Aug. 12 | 36.98 | Oct. 25 | 38.68 |
| Feb. 12 | 33.48 | June 10 | 31.53 | Sept. 17 | 37.89 | Dec. 9 | 38.90 |
| Mar. 12 | 36.96 | July 9 | 35.31 | | | | |

53-9-1 (#1017, p. 267; 1024, p. 143; 1072, p. 163). Henry Hufflage. At Arrowhead Farms, on Lower River Road between Lower Hunters Trace and Greenwood Road.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 7 | 56.74 | Apr. 9 | 54.17 | Aug. 12 | 55.20 | Oct. 25 | 57.03 |
| Feb. 12 | 53.68 | June 10 | 52.02 | Sept. 17 | 56.16 | Dec. 10 | 57.55 |
| Mar. 12 | 55.59 | July 9 | 53.63 | | | | |

53-9-2 (#1017, p. 267; 1024, p. 143; 1072, p. 164). Mrs. A. J. Seibert. At Alvama Farms, on Lower River Road about 0.5 mile north of Greenwood Road.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 7 | 46.75 | Apr. 9 | 43.13 | Aug. 12 | 44.61 | Oct. 25 | 46.43 |
| Feb. 12 | 44.45 | June 10 | 42.76 | Sept. 17 | 45.59 | Dec. 9 | 46.97 |
| Mar. 12 | 45.13 | July 9 | 43.05 | | | | |

53-10-1 (#1017, p. 267; 1024, p. 143; 1072, p. 164). W. E. Miller. In Miller's orchard on Lower River Road, about 0.5 mile west of Lower Hunters Trace.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 43.26 | Apr. 9 | 40.30 | Aug. 12 | 43.66 | Oct. 25 | 45.77 |
| Feb. 12 | 39.78 | June 10 | 37.96 | Sept. 17 | 44.75 | Dec. 10 | 46.01 |
| Mar. 12 | 43.77 | July 9 | 41.67 | | | | |

53-11-1 (#1024, p. 143; 1072, p. 164). Rubber Reserve Co. well RR-43. On property of A. J. Miller, on Lower River Road about 0.15 mile west of Lower Hunters Trace.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 8 | 34.17 | Apr. 9 | 31.40 | Aug. 12 | 40.11 | Oct. 25 | 41.60 |
| Feb. 12 | 38.01 | June 10 | 29.88 | Sept. 17 | 40.79 | Dec. 10 | 40.21 |
| Mar. 12 | 38.60 | July 9 | 39.18 | | | | |

54-4-1 (#1017, p. 268; 1024, p. 143; 1072, p. 165). Rodney Williams. On Lower River Road, about 0.9 mile north of Watson Lane.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 7 | 53.17 | Apr. 8 | 49.63 | Aug. 8 | 54.40 | Oct. 25 | d 57+ |
| Feb. 12 | 47.20 | June 10 | 46.01 | Sept. 17 | d 57+ | Dec. 9 | d 57+ |
| Mar. 12 | 54.15 | July 9 | 52.14 | | | | |

d Dry at this depth.

54-7-1 (#1024, p. 144; 1072, p. 165). Rubber Reserve Co. well RR-44. On Mike Linnig's property, west of Lower River Road and 0.2 mile north of Johnstown Road.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 7 | 25.46 | Apr. 8 | 24.38 | Aug. 8 | 31.09 | Oct. 25 | 32.91 |
| Feb. 12 | 29.06 | June 10 | 24.11 | Sept. 17 | 32.20 | Dec. 9 | 32.88 |
| Mar. 12 | 30.90 | July 9 | 30.48 | | | | |

55-1-1 (#1017, p. 268; 1024, p. 144; 1072, p. 166). W. R. Baker. At Dixie View Dairy, on Dixie Highway about 1.8 miles north of West Point.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Mar. 12 | 50.03 | June 10 | 46.99 | Aug. 8 | 48.60 | Oct. 25 | 52.88 |
| Apr. 8 | 50.40 | July 9 | 46.68 | Sept. 17 | 51.20 | | |

MARYLAND

By R. R. Meyer

PROGRAM OF WORK

1

The observation-well program in Maryland was continued during 1947. This program, which is a part of the general or detailed ground-water investigations in the State, was started in 1943 in cooperation with the Maryland Department of Geology, Mines and Water Resources. The water level in one well near Colesville, Montgomery County, has been measured since 1932.

During the ground-water investigations in the various areas of the State observation wells are established and, upon the completion of an area, a few of the wells are retained as permanent observation wells. During 1947 a total of 1,115 tape measurements was made on the 163 wells under observation. Automatic water-stage recorders were maintained on nine wells during part of the year and on three wells throughout the year. For this report the daily high and low water levels were taken from the recorder charts.

FLUCTUATIONS OF WATER LEVEL

During 1947 water-level measurements were made on 46 observation wells in the Baltimore industrial area. Most of these wells are near localities of heavy pumpage and therefore the water levels in them fluctuate widely with changes in the rate of pumping. For example, a daily fluctuation of approximately 16 feet has been measured in well 2S1E-16. Other wells at greater distances from centers of pumpage and near the river or bay show the effect of tides, but the general trend of the water level or artesian pressure is controlled by the changes in the rate of pumping.

As only a small percentage of the pumpage in the area is metered, it is not possible to determine accurately the changes in rate of discharge causing the observed fluctuations in the water levels. For this same

reason the total pumpage in the area must be approximated. An inventory of the pumpage in the area for 1947 was not made as it would require considerable time to visit each consumer and obtain his estimate of the water consumed. However, from a study of the changes in water levels and some information on the changes in pumpage in the largest ground-water developments, it is possible to estimate the total pumpage in the area. It appears that there has been a slight increase in pumpage in the Patuxent and Patapsco formations with the total pumpage estimated to be 35 million to 40 million gallons a day. This daily pumpage varies throughout the year as some industries replace surface-water supplies with ground water during the summer months for cooling purposes.

The wide daily fluctuations of the water level make it difficult to determine accurately the net change in the water levels for the year. Therefore the following changes should be considered approximate.

Patuxent formation

| | |
|----------------------------------|----------------------------------|
| Sparrows Point district: | Decline of 5 feet |
| Dundalk-Canton district: | Decline of 5 feet |
| Highlandtown district: | Decline of 4 feet |
| Harbor district: | No change to a rise of 7 feet |
| Fairfield-Curtis Bay district | No change to a rise of 3 feet |

Patapsco formation

| | |
|--------------------------|-------------------------------------|
| Sparrows Point district: | No change to a decline of 8 feet |
| Dundalk-Canton district: | Decline of 3 feet |

Of the 57 stations operated by the United States Weather Bureau in Maryland, 48 stations recorded precipitation below normal for the year. The nine stations reporting precipitation above normal are in seven counties. Other stations in five of these counties reported the precipitation below normal for the year. The average precipitation for the State is 41.65 inches and the precipitation during 1947 was 38.54 inches or 3.11 inches below the average for the period of record. This decrease in precipitation caused a slight net decline in water level in most aquifers in southern and western Maryland.

The observation wells measured in southern Maryland indicate either no noticeable net change or a decline of from 1 to 2 feet in the water levels. A net decline of 4 feet was observed in one well (AA-Df 14) at

Annapolis. This decline may have been due to a change in the rate of pumping at the United States Naval Academy. The decline in water levels in southern Maryland occurred both in water table and artesian aquifers.

None of the observation wells in the Piedmont and Paleozoic areas of western Maryland showed a net rise in water levels for the year. No net changes in water levels were measured in the wells of Allegany and Washington Counties. The Savage River Valley well (Gar-Ag 1), in Garrett County, showed a decline of approximately 0.5 foot for the year. The well at Johnsville (Fr-Cg 1), in Frederick County, showed no noticeable change for the year. However, the wells at Frederick, Thurmont, and Point of Rocks showed net declines of 3 to 7 feet. The water level in the Colesville well (Mont-Ff 1) declined approximately 1 foot during the first 10 months of the year and rose about 1 foot in the last 2 months resulting in practically no net change in water level for the year.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Allegany County

All-Ag 1 (*1072, p. 169). Methodist Church. At Flintstone, 0.25 mile south and 58° east of intersection of Routes 40 and 52.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|--------|-------------|
| Feb. 6 | 2.55 | Apr. 22 | 5.12 | July 10 | 4.69 | Oct. 3 | 5.86 |
| 19 | 5.19 | 28 | 5.00 | Aug. 13 | 5.00 | Dec. 5 | 5.75 |
| Mar. 7 | 3.89 | June 5 | 2.91 | Sept. 3 | 2.95 | | |

All-Bd 2 (*1072, p. 169). Cumberland Brewing Co. In Cumberland at Henderson and Valley Streets.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Feb. 4 | 11.11 | Apr. 22 | 11.25 | July 8 | 12.08 | Sept. 30 | 11.69 |
| 21 | 11.24 | May 1 | 11.26 | Aug. 5 | 11.57 | Dec. 2 | 11.60 |
| Mar. 7 | 11.06 | June 3 | 11.35 | Sept. 3 | 13.86 | 2 | 11.61 |
| 31 | 11.19 | | | | | | |

All-Da 1 (*1072, p. 169). Cumberland & Pennsylvania Railroad Co. At Westernport, on west side of Route 36 about 0.7 mile north and 8° east of Potomac River Bridge.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Jan. 6 | 3.55 | Apr. 4 | 3.75 | June 5 | 4.84 | Sept. 4 | 4.78 |
| Feb. 4 | 3.45 | 23 | 4.57 | July 8 | 4.90 | 30 | 5.04 |
| Mar. 4 | 4.88 | 30 | 4.39 | Aug. 12 | 5.13 | Dec. | 4.11 |

Anne Arundel County

AA-Ad 10 (*1072, p. 169). U. S. Army Ordnance Depot's well 3. 0.7 mile south and 57° west of Curtis Creek bridge, on east side of swimming pool.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 8 | 35.71 | Feb. 22 | 34.81 | Mar. 22 | 35.09 | Sept. 9 | 34.69 |
| 28 | 34.90 | Mar. 8 | 34.97 | May 3 | 35.19 | | |

AA-Ad 24 (*1072, p. 170). Seth Linthicum. At Linthicum Heights, about 300 feet north of Baltimore & Annapolis Railroad (Elec.) crossing.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|
| Jan. 8 | 97.68 | Feb. 22 | 97.92 | Mar. 22 | 98.23 |
| 28 | 97.97 | Mar. 8 | 98.22 | May 3 | 98.56 |

AA-Ad 27 (*1072, p. 170). S. S. Tracey. On Furnace Creek, 0.5 mile south and 65° east of intersection of Route 270 and Governor Ritchie Highway.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|
| Jan. 8 | 21.53 | Feb. 22 | 21.42 | Mar. 22 | 21.31 |
| 28 | 20.92 | Mar. 8 | 21.33 | May 3 | 21.12 |

AA-Ae 4 (*1072, p. 171). U. S. Coast Guard Yard. On Arundel Cove, 0.65 mile south and 52° east of Curtis Creek bridge. Water levels, in feet below land-surface datum, 1947: Jan. 8, 22.78; Jan. 28, 22.14; Sept. 9, 22.22.

AA-Bb 17 (*1072, p. 171). Annapolis Junction school. At Fort George G. Meade Junction, about 1,000 feet south of Baltimore & Ohio Railroad station.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 8 | 43.68 | Feb. 22 | 46.47 | Mar. 22 | 46.83 | Sept. 9 | 46.36 |
| 28 | 43.92 | Mar. 8 | 47.42 | May 3 | 47.03 | | |

AA-Bb 18 (*1072, p. 171). William J. Harris. At Fort George G. Meade Junction, about 1,300 feet south and 76° east of Baltimore & Ohio Railroad station.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 8 | 23.89 | Feb. 22 | 23.79 | Mar. 22 | 23.90 | Sept. 9 | 23.58 |
| 28 | 23.88 | Mar. 8 | 23.82 | May 3 | 23.78 | | |

AA-Be 13 (*1072, p. 172). R. Le Moine. At Riviera Beach, about 700 feet south of and 57° west of Route 173 intersection.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 8 | 19.43 | Feb. 22 | 20.00 | Mar. 22 | 20.12 | Sept. 9 | 20.48 |
| 28 | 19.18 | Mar. 8 | 20.17 | May 3 | 19.75 | | |

AA-Be 29 (*1072, p. 172). Wolfe's Tavern. At Lipins Corner, about 1.5 miles south and 33° east of Marley. No measurements made in 1947.

AA-Be 40 (*1072, p. 172). Harold E. West. On Magothy River, 1.8 miles east of Baltimore & Annapolis Railroad (Elec.) crossing at Earleigh Heights. No measurements made in 1947.

AA-Be 54 (*1072, p. 172). R. Le Moine. At Riviera Beach, about 700 feet south and 57° west of Route 173 intersection.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 8 | 14.16 | Feb. 22 | 13.90 | Mar. 22 | 14.15 | Sept. 9 | 13.78 |
| 28 | 14.12 | Mar. 8 | 14.12 | May 3 | 14.21 | | |

AA-Cc 1 (*1072, p. 172). U. S. Naval Academy dairy. At Gambrills, about 800 feet southwest of Route 180. No measurements made in 1947.

AA-Cc 2 (*1072, p. 173). U. S. Naval Academy dairy. At Gambrills, about 800 feet southwest of Route 180.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 8 | 107.57 | Feb. 22 | 109.84 | Mar. 22 | 107.77 | Sept. 9 | 109.63 |
| 28 | 107.12 | Mar. 8 | 107.69 | May 3 | 107.75 | | |

AA-Cd 8 (*1072, p. 173). Crownsville State Hospital. At Crownsville, about 0.2 mile southwest of Route 178. Water levels, in feet below land-surface datum, 1947: Mar. 8, 87.64; Mar. 22, 87.47; May 3, 89.90; Sept. 9, 87.45.

AA-Cd 21 (*1072, p. 173). Mrs. Richard Whitall. About 0.5 mile north and 76° west of Waterbury.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|
| Jan. 8 | 47.47 | Mar. 8 | 47.70 | May 3 | 48.55 |
| 28 | 47.59 | 22 | 47.77 | Sept. 9 | 48.83 |

AA-Ce 24 (*1072, p. 173). Mrs. Alfred Thompson. At Round Bay, about 0.5 mile southwest of Route 2.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 8 | 73.73 | Feb. 22 | 76.87 | Mar. 22 | 73.70 | Sept. 9 | 73.57 |
| 28 | 73.66 | Mar. 8 | 73.96 | May 3 | 77.90 | | |

AA-Ce 49 (*1072, p. 173). G. G. Ridgley. At Dreams Landing, about 1.5 miles north and 56° west of Severn River bridge.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 8 | 30.62 | Feb. 22 | 30.98 | Mar. 22 | 30.83 | Sept. 9 | 32.43 |
| 28 | 30.35 | Mar. 8 | 31.00 | May 3 | 30.72 | | |

AA-Cg 2 (*1072, p. 173). State of Maryland. At Sandy Point Ferry landing, about 5.2 miles north and 67° east of Annapolis. No measurements made in 1947.

AA-Df 14 (*1072, p. 174). U. S. Naval Academy well Rifle Range 1. Near Carrs Point, about 1.6 miles north and 65° east of Annapolis.

Daily high and low water level, in feet below land-surface datum, 1947
(From recorder charts)

| Date | High | Low | Date | High | Low | Date | High | Low |
|---------|-------|-------|---------|-------|-------|---------|-------|-------|
| Jan. 8 | 65.56 | 68.60 | Feb. 28 | 69.68 | 71.36 | Mar. 15 | 68.45 | 69.33 |
| 9 | 67.09 | 69.89 | Mar. 1 | 67.64 | 70.56 | 22 | 68.73 | 68.93 |
| 10 | 67.35 | 70.33 | 8 | 67.15 | 69.45 | 23 | 68.85 | 68.92 |
| Feb. 22 | 69.25 | 69.96 | 9 | 66.10 | 68.30 | 24 | 67.90 | 69.15 |
| 23 | 67.30 | 69.45 | 10 | 66.75 | 69.20 | 25 | 67.97 | 69.29 |
| 24 | 68.26 | 70.30 | 11 | 68.94 | 70.07 | 26 | 69.02 | 70.09 |
| 25 | 68.87 | 70.85 | 12 | 69.06 | 69.75 | 27 | 69.35 | 69.95 |
| 26 | 70.80 | 71.20 | 13 | 69.10 | 69.80 | 28 | 67.60 | 69.55 |
| 27 | 69.80 | 72.10 | 14 | 68.33 | 69.92 | 29 | 66.66 | 68.34 |

AA-Df 14--Continued.

Water level, in feet below land-surface datum, 1947
(Tape measurements)

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 8 | 65.56 | Feb. 22 | 69.43 | Mar. 22 | 68.93 | May 3 | 70.10 |
| 28 | 68.04 | Mar. 8 | 69.43 | Apr. 22 | 69.07 | Sept. 9 | 72.11 |

AA-Df 17 (*1072, p. 175). U. S. Naval Academy well High Power Radio Station 1. On Opossum Point, about 2.3 miles north and 86° east of Annapolis.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 8 | 13.53 | Feb. 22 | 14.44 | Mar. 22 | 14.32 | Sept. 9 | 14.92 |
| 28 | 14.19 | Mar. 8 | 14.62 | May 3 | 14.47 | | |

AA-Df 18 (*1072, p. 175). U. S. Naval Academy well High Power Radio Station 2. On Opossum Point, about 2.3 miles north and 88° east of Annapolis. No measurements made during 1947.

AA-Ee 14 (*1072, p. 175). A. B. Smith. Near Selby Beach, about 1.5 miles north and 27° west of Mayo.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 8 | 25.38 | Feb. 22 | 25.34 | Mar. 22 | 25.32 | Sept. 9 | 25.29 |
| 28 | 25.06 | Mar. 8 | 25.35 | May 3 | 25.14 | | |

AA-Ef 3 (*1072, p. 175). C. L. Meredith. At Arundel on the Bay, about 4.6 miles south of and 23° east of Annapolis.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 8 | 6.86 | Feb. 22 | 6.80 | Mar. 22 | 6.17 | Sept. 9 | 6.05 |
| 28 | 5.61 | Mar. 8 | 6.47 | May 3 | 5.88 | | |

Baltimore City

4N2W-9 (*987, p. 90; 1017, p. 272; 1024, p. 148; 1072, p. 175). Baltimore Country Club. In Baltimore, at Falls and Harvest Roads.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Feb. 3 | 11.13 | Mar. 29 | 11.43 | July 21 | 10.75 | Dec. 16 | 11.34 |
| Mar. 1 | 11.72 | May 10 | 11.02 | Aug. 25 | 11.79 | | |

183E-12 (*1017, p. 273; 1024, p. 148; 1072, p. 176). Kimball Tyler Co. In Baltimore, at Haven and Gough Streets.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 9 | 119.96 | Mar. 29 | 118.94 | June 20 | 124.51 | Aug. 25 | 121.74 |
| Feb. 3 | 119.37 | May 10 | 119.14 | July 21 | 120.30 | Dec. 16 | 124.23 |
| Mar. 1 | 118.39 | | | | | | |

2S1E-16 (*1017, p. 273; 1024, p. 148; 1072, p. 176). Buck Glass Co. In Baltimore, at Lawrence and Fort Avenues.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 9 | 52.66 | Mar. 29 | 50.42 | June 20 | 51.06 | Aug. 25 | 48.99 |
| Mar. 1 | 52.66 | May 10 | 51.53 | July 21 | 50.99 | Dec. 16 | 45.27 |

2S3E-11 (*987, p. 90; 1017, p. 274; 1024, p. 149; 1072, p. 176). J. S. Young Co. In Baltimore, at Boston and Luzerne Streets.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 9 | 33.78 | Mar. 29 | 33.60 | June 20 | 34.14 | Aug. 25 | 34.41 |
| Feb. 3 | 32.87 | May 10 | 33.55 | July 21 | 33.08 | Dec. 16 | 32.94 |
| Mar. 1 | 33.90 | | | | | | |

2S5E-1 (*1017, p. 274; 1024, p. 150; 1072, p. 177). U. S. Army. In Baltimore, on Holabird Avenue at Pumphrey Street.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|
| Jan. 9 | 91.29 | Mar. 1 | 89.07 | Aug. 25 | 91.55 |
| Feb. 3 | 85.00 | June 20 | 96.07 | Dec. 16 | 93.52 |

2S5E-4 (*987, p. 90; 1017, p. 275; 1024, p. 150; 1072, p. 177). U. S. Army. In Baltimore, on Holabird Avenue at Pumphrey Street.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Jan. 9 | 83.05 | Mar. 1 | 83.51 | June 20 | 83.95 | Dec. 16 | 86.32 |
| Feb. 3 | 83.26 | 29 | 83.73 | Aug. 25 | 84.59 | | |

3S5E-3 (*987, p. 91; 1017, p. 275; 1024, p. 150; 1072, p. 177). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 9 | 41.24 | Mar. 29 | 40.23 | June 20 | 40.88 | Aug. 25 | 41.97 |
| Feb. 3 | 40.90 | May 10 | 38.30 | July 21 | 41.25 | Dec. 16 | 44.15 |
| Mar. 1 | 41.13 | | | | | | |

4S2E-4 (*1024, p. 151; 1072, p. 177). Weyerhaeuser Lumber Co. In Baltimore, 30 feet east of Childs Street and 800 feet southwest of docks.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Jan. 9 | 51.48 | Mar. 1 | 49.28 | May 10 | 54.49 | July 21 | 55.05 |
| Feb. 3 | 43.27 | 29 | 55.23 | June 20 | 60.78 | | |

4S3E-3. Virginia-Carolina Chemical Co. In Baltimore, 3.83 miles south and 2.25 miles east of Washington Monument. Unused drilled industrial well, diameter 18 inches, depth 357 feet. Measuring point, top of casing, 1.00 foot above land surface. Automatic water-stage recorder installed Oct. 15, 1947. Water level, in feet below land-surface datum, 1947: Aug. 25, 67.28; Oct. 15, 70.54; Dec. 16, 61.51.

Daily high and low water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | October | | November | | December | |
|-----|---------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low |
| 1 | | | 64.10 | 65.15 | 61.23 | 62.25 |
| 2 | | | 62.63 | 64.19 | 61.29 | 61.83 |
| 3 | | | 61.74 | 62.67 | 61.50 | 61.94 |
| 4 | | | 61.85 | 63.44 | 61.66 | 62.50 |
| 5 | | | | | 62.17 | 62.57 |
| 6 | | | | | 62.18 | 63.04 |
| 7 | | | 63.22 | 63.85 | 61.40 | 62.96 |
| 8 | | | 63.72 | 64.30 | 60.68 | 61.76 |
| 9 | | | 63.72 | 64.37 | 61.20 | 62.01 |
| 10 | | | 64.09 | 64.64 | 61.86 | 62.40 |
| 11 | | | 64.26 | 65.04 | 62.20 | 62.65 |
| 12 | | | 63.55 | 64.60 | 62.24 | 62.50 |
| 13 | | | | | 62.35 | 62.72 |
| 14 | | | | | 61.66 | 62.80 |
| 15 | 70.45 | 70.84 | 62.26 | 63.45 | 61.15 | 61.70 |
| 16 | 70.67 | 71.27 | 61.37 | 62.56 | 60.68 | 62.10 |
| 17 | 70.88 | 71.51 | 61.37 | 61.94 | 62.10 | 62.57 |

4S3E-3--Continued.

Daily high and low water level, in feet below land-surface datum, 1947
(From recorder charts)

| Date | October | | November | | December | |
|------|---------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low |
| 18 | 70.73 | 71.35 | 61.90 | 62.45 | 62.30 | 62.93 |
| 19 | 68.57 | 70.73 | 62.10 | 62.59 | 62.50 | 63.14 |
| 20 | 68.03 | 68.65 | 62.43 | 62.92 | 61.64 | 62.78 |
| 21 | 68.35 | 69.30 | 62.53 | 63.00 | 61.56 | 61.79 |
| 22 | 69.22 | 70.90 | 62.51 | 63.00 | 60.87 | 61.65 |
| 23 | 70.80 | 71.49 | 61.80 | 62.87 | 60.88 | 61.66 |
| 24 | 70.65 | 72.11 | 59.80 | 61.80 | 61.61 | 62.16 |
| 25 | 70.35 | 70.82 | 60.66 | 62.21 | 60.01 | 61.61 |
| 26 | 69.11 | 70.35 | 62.21 | 62.70 | 59.10 | 60.02 |
| 27 | 65.40 | 69.11 | 62.45 | 63.08 | 59.44 | 60.27 |
| 28 | 64.15 | 65.42 | 62.06 | 62.60 | 59.45 | 60.21 |
| 29 | 63.78 | 65.85 | 62.42 | 62.94 | 59.47 | 59.93 |
| 30 | 64.70 | 66.03 | 62.14 | 62.91 | 59.66 | 60.14 |
| 31 | 63.73 | 64.97 | | | 59.83 | 60.32 |

5S3E-15 (*1024, p. 151; 1072, p. 177). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 9 | 117.90 | Mar. 29 | 123.45 | June 20 | 126.52 | Aug. 25 | 123.92 |
| Feb. 3 | 107.44 | May 10 | 121.65 | July 21 | 114.58 | Dec. 16 | 112.52 |
| Mar. 1 | 115.78 | | | | | | |

5S3E-16 (*1024, p. 151; 1072, p. 177). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 9 | 103.02 | Mar. 29 | 113.42 | June 20 | 122.22 | Aug. 25 | 97.24 |
| Feb. 3 | 92.98 | May 10 | 118.30 | July 21 | 106.83 | Dec. 16 | 106.20 |
| Mar. 1 | 102.80 | | | | | | |

6S2E-6(*987, p. 93; 1017, p. 277; 1024, p. 152; 1072, p. 177). U. S. Industrial Alcohol Co. In Baltimore, at Birch and Curtis Streets.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 9 | 118.05 | Mar. 29 | 117.08 | June 20 | 118.23 | Aug. 25 | 116.94 |
| Feb. 3 | 103.97 | May 10 | 115.99 | July 21 | 114.97 | Dec. 16 | 116.11 |
| Mar. 1 | 116.88 | | | | | | |

6S2E-9 (*1024, p. 152; 1072, p. 177). U. S. Industrial Alcohol Co. In Baltimore, at Birch and Curtis Streets. No measurements made in 1947.

Baltimore County

Bal-Er 16 (*1017, p. 278; 1024, p. 152; 1072, p. 178). Water hole. On King Avenue, 0.1 mile southeast of Babikow Road.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 9 | 4.07 | Mar. 29 | 4.29 | June 20 | 4.01 | Aug. 25 | 6.03 |
| Feb. 3 | 4.04 | May 10 | 4.04 | July 21 | 5.50 | Dec. 16 | 3.87 |
| Mar. 1 | 5.08 | | | | | | |

Bal-Ef 19 (*1017, p. 278; 1024, p. 152; 1072, p. 178). United Clay Products Co. Between Highway 40 and Baltimore & Ohio Railroad, at Poplar.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 9 | 58.82 | Mar. 29 | 62.22 | June 20 | 58.71 | Aug. 25 | 58.60 |
| Feb. 3 | 59.11 | May 10 | 59.30 | July 21 | 58.49 | Dec. 16 | 58.44 |
| Mar. 1 | 59.05 | | | | | | |

Bal-Fe 19 (*1017, p. 278; 1024, p. 152; 1072, p. 178). Paul Jones Distillery. In Dundalk, south of Baltimore & Ohio Railroad tracks, 150 feet east of Willow Spring Street.

Daily high and low water level, in feet below land-surface datum, 1947

| Day | January | | March | | April | | May | | June | |
|-----|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | | | | | 84.63 | 85.27 | 82.42 | 82.84 | ..... | ..... |
| 2 | | | | | 84.74 | 85.16 | 82.55 | 83.05 | ..... | ..... |
| 3 | | | | | 84.65 | 85.52 | 82.07 | 83.07 | ..... | ..... |
| 4 | | | | | 85.17 | 85.63 | 80.70 | 82.07 | ..... | ..... |
| 5 | | | | | 84.93 | 85.80 | 80.68 | 81.74 | ..... | ..... |
| 6 | 85.80 | 86.10 | ..... | ..... | 84.62 | 85.80 | 81.59 | 82.20 | ..... | ..... |
| 7 | 85.65 | 86.20 | ..... | ..... | 84.63 | 85.96 | 81.96 | 82.44 | ..... | ..... |
| 8 | 85.49 | 85.65 | ..... | ..... | 85.85 | 86.75 | 82.15 | 82.81 | ..... | ..... |
| 9 | 85.31 | 85.47 | ..... | ..... | 86.28 | 86.65 | 82.47 | 82.89 | ..... | ..... |
| 10 | 85.22 | 85.36 | ..... | ..... | 86.12 | 86.55 | 82.27 | 82.87 | ..... | ..... |
| 11 | | | | | 85.87 | 86.15 | 81.40 | 82.27 | ..... | ..... |
| 12 | | | | | 84.73 | 85.78 | 81.43 | 82.06 | ..... | ..... |
| 13 | | | | | 83.21 | 84.73 | 81.90 | 82.39 | ..... | ..... |
| 14 | | | | | 83.05 | 83.55 | 82.39 | 83.17 | ..... | ..... |
| 15 | | | | | 83.33 | 84.20 | 83.17 | 84.15 | 86.45 | 88.79 |
| 16 | | | | | 83.76 | 84.27 | 83.05 | 84.02 | 86.37 | 87.74 |
| 17 | | | | | 83.63 | 84.34 | 82.30 | 83.05 | 87.74 | 88.85 |
| 18 | | | | | 84.10 | 84.51 | 80.60 | 82.30 | 88.66 | 89.62 |
| 19 | | | | | 83.90 | 84.40 | 80.65 | 81.95 | 89.57 | 90.08 |
| 20 | | | | | 82.20 | 83.90 | 81.95 | 83.21 | 89.88 | 90.49 |
| 21 | | | | | 82.24 | 83.44 | 82.68 | 83.65 | 89.36 | 90.65 |
| 22 | | | | | 83.21 | 83.95 | 83.45 | 84.35 | 86.67 | 88.95 |
| 23 | | | | | 83.57 | 84.15 | 84.17 | 85.07 | 86.63 | 88.22 |
| 24 | | | | | 84.14 | 84.53 | 83.80 | 84.94 | 88.22 | 89.27 |
| 25 | | | | | 84.04 | 84.40 | ..... | ..... | 89.06 | 89.83 |
| 26 | | | | | 83.50 | 84.12 | ..... | ..... | 89.83 | 90.30 |
| 27 | | | | | 81.54 | 83.50 | ..... | ..... | 90.24 | 90.70 |
| 28 | | | | | 81.70 | 83.03 | ..... | ..... | 88.94 | 90.73 |
| 29 | | | 84.19 | 85.21 | 82.80 | 83.18 | ..... | ..... | 86.49 | 88.94 |
| 30 | | | 83.47 | 84.19 | 82.58 | 82.84 | ..... | ..... | 86.51 | 88.29 |
| 31 | | | 83.80 | 84.76 | ..... | ..... | ..... | ..... | ..... | ..... |

Bal-Pe 19--Continued.

Daily high and low water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | November | | December | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 88.29 | 89.68 | 87.03 | 87.84 | 84.89 | 85.70 | 86.75 | 87.55 | 88.63 | 89.24 | 86.59 | 87.66 |
| 2 | 89.68 | 90.35 | 86.90 | 88.01 | 84.81 | 86.57 | 86.62 | 86.94 | 89.24 | 91.52 | 87.66 | 88.67 |
| 3 | 90.27 | 90.94 | 84.29 | 86.90 | 86.57 | 88.20 | 86.54 | 86.95 | 90.84 | 91.69 | 88.65 | 89.18 |
| 4 | 88.67 | 90.86 | 84.13 | 85.29 | 88.20 | 88.73 | 86.68 | 87.74 | 89.87 | 90.84 | 89.11 | 89.80 |
| 5 | 86.91 | 88.67 | 85.29 | 86.76 | 88.42 | 88.67 | 87.74 | 90.66 | 89.20 | 89.90 | 89.40 | 89.79 |
| 6 | 85.12 | 86.91 | 86.76 | 87.51 | 87.60 | 88.65 | 89.78 | 90.72 | 88.61 | 89.20 | 88.66 | 89.40 |
| 7 | 85.12 | 86.20 | 87.46 | 87.93 | 85.74 | 87.60 | 88.95 | 89.78 | 88.67 | 88.82 | 86.76 | 88.66 |
| 8 | 86.20 | 87.95 | 87.84 | 88.40 | 85.67 | 86.60 | 88.73 | 88.95 | 88.80 | 89.17 | 86.33 | 88.26 |
| 9 | 87.52 | 88.08 | 87.19 | 88.40 | 86.57 | 88.23 | 88.50 | 88.87 | 86.58 | 89.00 | 88.26 | 89.57 |
| 10 | 87.61 | 88.14 | 85.43 | 87.19 | 88.20 | 88.69 | 88.32 | 88.50 | 86.53 | 87.86 | 89.57 | 90.03 |
| 11 | 87.96 | 88.75 | 85.38 | 86.41 | 88.66 | 89.03 | 88.42 | 88.86 | 87.86 | 88.40 | 89.77 | 90.33 |
| 12 | 86.87 | 88.80 | 86.41 | 87.41 | 89.03 | 89.76 | 88.86 | 91.24 | 88.40 | 89.25 | 89.75 | 90.13 |
| 13 | 84.49 | 86.87 | 87.37 | 87.85 | 89.50 | 90.02 | 89.50 | 91.33 | 89.19 | 89.74 | 88.86 | 89.75 |
| 14 | 84.00 | 84.32 | 87.73 | 87.90 | 87.51 | 89.50 | 87.66 | 89.50 | 89.68 | 90.02 | 86.77 | 88.86 |
| 15 | 84.24 | 84.46 | 87.63 | 88.12 | 87.40 | 88.71 | 86.91 | 87.66 | 89.12 | 89.98 | 86.75 | 88.25 |
| 16 | 83.22 | 84.46 | 87.43 | 88.15 | 88.71 | 89.88 | 86.69 | 87.04 | 87.03 | 89.12 | 88.25 | 89.50 |
| 17 | 82.79 | 83.70 | 85.67 | 87.43 | 89.86 | 90.68 | 86.40 | 86.91 | 86.99 | 88.53 | 89.16 | 89.44 |
| 18 | 83.37 | 83.70 | 85.62 | 86.14 | 90.50 | 91.02 | 86.91 | 88.45 | 88.53 | 89.47 | 89.17 | 89.72 |
| 19 | 81.20 | 83.43 | 86.14 | 86.85 | 90.78 | 90.97 | 88.45 | 91.23 | 89.43 | 89.89 | 89.71 | 90.05 |
| 20 | ..... | ..... | 86.85 | 87.55 | 90.15 | 91.07 | 90.18 | 91.37 | 89.61 | 90.04 | 88.37 | 89.72 |
| 21 | 80.85 | 81.16 | 87.55 | 88.39 | 87.12 | 90.14 | 88.56 | 90.18 | 89.95 | 90.60 | 86.57 | 88.37 |
| 22 | 80.39 | 81.23 | 88.39 | 88.64 | 87.07 | 88.94 | 86.86 | 88.56 | 90.03 | 90.65 | 86.54 | 87.90 |
| 23 | 81.23 | 82.05 | 87.85 | 88.46 | 88.94 | 90.33 | 86.06 | 86.86 | 88.08 | 90.03 | 87.90 | 88.74 |
| 24 | 81.92 | 82.51 | 86.44 | 87.85 | 90.25 | 91.11 | 86.06 | 86.57 | 87.47 | 88.08 | 88.74 | 89.92 |
| 25 | 82.37 | 82.77 | 86.35 | 87.67 | 91.11 | 91.79 | 86.57 | 87.91 | 87.92 | 89.33 | 88.09 | 89.37 |
| 26 | 81.45 | 82.63 | 87.67 | 88.51 | 91.63 | 91.91 | 87.91 | 90.50 | 89.21 | 90.03 | 87.32 | 88.09 |
| 27 | 80.63 | 81.45 | 88.51 | 88.89 | 91.63 | 91.95 | 89.06 | 90.69 | 88.49 | 89.85 | 86.35 | 87.32 |
| 28 | 80.72 | 82.87 | 88.72 | 88.89 | 89.42 | 91.65 | 88.72 | 89.06 | 87.79 | 88.72 | 84.75 | 86.35 |
| 29 | 82.87 | 84.71 | 88.81 | 89.27 | 88.46 | 89.42 | 88.79 | 88.89 | 88.69 | 88.94 | 84.75 | 86.44 |
| 30 | 84.71 | 85.94 | 87.93 | 89.29 | 87.55 | 88.46 | 88.75 | 88.95 | 86.68 | 88.49 | 86.44 | 87.00 |
| 31 | 85.92 | 87.03 | 85.69 | 87.93 | ..... | ..... | 88.61 | 88.86 | ..... | ..... | 86.43 | 86.93 |

Water level, in feet below land-surface datum, 1947
(Tape measurements)

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 9 | 85.44 | Mar. 29 | 85.21 | June 20 | 90.36 | Aug. 25 | 86.71 |
| Feb. 3 | 81.39 | Apr. 20 | 84.40 | July 21 | 80.82 | Dec. 16 | 88.93 |
| Mar. 1 | 85.66 | May 10 | 82.81 | | | | |

Bal-Ff 1 (*987, p. 93; 1017, p. 279; 1024, p. 154; 1072, p. 179).
City of Baltimore. At Back River sewage disposal plant.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|--------|-------|---------|-------|---------|-------|---------|-------|
| Jan. 9 | 40.03 | Mar. 22 | 42.43 | June 20 | 42.77 | Aug. 25 | 42.57 |
| Feb. 3 | 40.80 | May 10 | 42.73 | July 21 | 42.13 | Dec. 16 | 44.24 |
| Mar. 1 | 41.88 | | | | | | |

Bal-Gc 20 (*1017, p. 279; 1024, p. 154; 1072, p. 179). Calvert
Distillery. At St. Denis. Water levels, in feet below land-surface datum,
1947: Jan. 8, 39.06; Feb. 3, 40.07.

172 WATER LEVELS AND ARTESIAN PRESSURE, 1947, SOUTHEASTERN STATES

Bal-Gf 1 (*987, p. 93; 1017, p. 280; 1024, p. 155; 1072, p. 180).
Bethlehem Steel Co. At Sparrows Point.

Daily high and low water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 41.16 | 42.35 | 38.77 | 40.97 | 49.80 | 50.41 | 45.35 | 46.40 | 46.75 | 47.40 | 38.48 | 41.50 |
| 2 | 40.73 | 41.36 | 38.87 | 40.48 | 46.90 | 49.80 | 46.25 | 47.17 | 46.93 | 48.38 | 37.65 | 38.16 |
| 3 | 40.75 | 43.30 | 39.43 | 40.73 | 45.53 | 47.15 | 46.35 | 47.28 | 47.20 | 47.80 | 38.16 | 41.40 |
| 4 | 42.46 | 44.21 | 40.00 | 41.10 | 45.50 | 46.14 | 46.16 | 47.00 | 43.65 | 47.30 | 41.50 | 43.42 |
| 5 | 41.76 | 43.86 | 41.10 | 42.96 | 45.59 | 45.45 | 46.40 | 47.42 | 41.88 | 43.65 | 42.99 | 44.07 |
| 6 | 42.71 | 43.97 | 42.54 | 43.10 | 45.75 | 46.54 | 44.68 | 47.39 | 41.72 | 44.02 | 43.65 | 44.34 |
| 7 | 43.15 | 43.83 | ..... | ..... | 45.77 | 46.77 | 42.82 | 44.79 | 43.40 | 44.40 | 43.90 | 44.82 |
| 8 | 43.43 | 44.47 | ..... | ..... | 46.07 | 46.57 | ..... | ..... | 42.25 | 44.11 | 41.55 | 43.97 |
| 9 | 44.20 | 45.19 | ..... | ..... | 43.70 | 46.07 | ..... | ..... | 41.88 | 42.71 | 41.55 | 46.71 |
| 10 | 44.47 | 45.21 | 41.26 | 42.51 | 43.17 | 44.57 | 47.30 | 47.70 | 42.24 | 43.06 | 44.61 | 45.94 |
| 11 | 44.14 | 44.91 | 42.07 | 43.90 | 44.57 | 45.90 | 46.88 | 47.97 | 41.25 | 42.50 | 45.25 | 46.40 |
| 12 | 42.91 | 44.25 | 42.89 | 44.45 | 46.00 | 46.60 | 45.20 | 46.90 | ..... | ..... | 46.40 | 47.06 |
| 13 | 42.26 | 43.40 | 43.81 | 44.62 | 46.05 | 47.17 | 43.14 | 45.20 | 37.16 | 41.25 | 46.80 | 48.14 |
| 14 | 43.40 | 44.41 | 43.81 | 45.65 | 45.35 | 45.65 | 42.10 | 43.14 | 40.10 | 41.85 | 46.50 | 48.26 |
| 15 | 43.72 | 44.42 | 44.60 | 46.00 | 45.20 | 46.69 | 43.00 | 45.50 | ..... | ..... | 44.75 | 46.50 |
| 16 | 43.94 | 45.07 | 43.09 | 45.40 | 43.50 | 46.60 | 44.95 | 46.78 | 42.22 | 43.60 | 44.55 | 46.08 |
| 17 | 43.15 | 45.03 | 42.28 | 44.60 | 43.29 | 43.50 | 46.50 | 47.40 | 40.90 | 42.87 | 44.55 | 47.21 |
| 18 | 43.55 | 44.82 | 44.17 | 45.25 | 43.29 | 43.67 | 45.75 | 46.90 | 38.77 | 40.90 | 47.10 | 47.93 |
| 19 | 43.75 | 45.30 | 45.25 | 46.00 | 43.53 | 45.40 | 45.19 | 46.95 | 38.42 | 39.96 | 47.75 | 48.24 |
| 20 | 42.47 | 43.75 | 46.00 | 47.42 | ..... | ..... | 42.70 | 45.20 | 39.91 | 41.51 | 48.24 | 48.90 |
| 21 | 43.38 | 45.39 | 47.17 | 48.35 | ..... | ..... | 42.37 | 43.19 | 41.37 | 42.57 | 46.55 | 49.25 |
| 22 | 45.14 | 46.50 | 45.80 | 47.67 | ..... | ..... | 43.15 | 45.25 | 42.23 | 42.81 | 45.10 | 46.65 |
| 23 | ..... | ..... | 46.29 | 47.01 | ..... | ..... | 45.13 | 46.07 | 43.21 | 44.02 | 45.07 | 45.35 |
| 24 | ..... | ..... | 45.55 | 46.25 | 43.00 | 44.36 | 45.74 | 46.65 | 42.20 | 44.14 | 47.74 | 47.95 |
| 25 | ..... | ..... | 46.25 | 50.85 | 44.30 | 45.25 | 46.65 | 47.57 | 39.55 | 42.20 | 47.72 | 48.59 |
| 26 | ..... | ..... | 50.85 | 52.92 | 45.25 | 45.87 | 44.36 | 47.92 | 38.66 | 39.55 | 48.12 | 49.99 |
| 27 | 44.02 | 44.66 | 50.14 | 52.93 | 45.87 | 47.37 | 42.64 | 44.51 | 38.93 | 47.40 | 48.50 | 49.41 |
| 28 | 38.24 | 45.09 | 50.12 | 50.62 | 45.92 | 47.00 | 43.02 | 44.70 | 47.40 | 50.07 | 48.06 | 49.45 |
| 29 | 37.88 | 38.95 | ..... | ..... | 44.25 | 46.05 | 44.70 | 45.71 | 45.10 | 47.47 | 45.88 | 48.46 |
| 30 | 38.33 | 39.07 | ..... | ..... | 44.04 | 45.07 | 45.65 | 47.70 | 42.90 | 45.57 | 45.28 | 46.25 |
| 31 | 39.07 | 40.33 | ..... | ..... | 43.00 | 44.26 | ..... | ..... | 41.50 | 42.90 | ..... | ..... |

Daily high and low water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|
| | High | Low | High | Low | High | Low | High | Low |
| 1 | 46.60 | 48.22 | 48.55 | 49.55 | 46.85 | 49.35 | ..... | ..... |
| 2 | 47.45 | 48.40 | 48.88 | 49.86 | 45.57 | 46.85 | 52.25 | 52.42 |
| 3 | 46.55 | 48.13 | 46.70 | 49.89 | 46.05 | 47.06 | 51.85 | 52.30 |
| 4 | 45.15 | 47.05 | ..... | ..... | 46.82 | 49.52 | 49.59 | 52.51 |
| 5 | 43.10 | 45.15 | ..... | ..... | 49.31 | 51.00 | ..... | ..... |
| 6 | 42.34 | 44.17 | ..... | ..... | 48.32 | 50.97 | ..... | ..... |
| 7 | 42.60 | 44.80 | ..... | ..... | 47.74 | 49.30 | ..... | ..... |
| 8 | 44.50 | 45.38 | ..... | ..... | 48.53 | 50.78 | ..... | ..... |
| 9 | 44.62 | 45.56 | 53.36 | 53.70 | 49.99 | 50.87 | ..... | ..... |
| 10 | 45.30 | 45.90 | 50.76 | 53.65 | ..... | ..... | ..... | ..... |
| 11 | 44.75 | 45.67 | ..... | ..... | ..... | ..... | ..... | ..... |
| 12 | 43.30 | 45.70 | ..... | ..... | ..... | ..... | ..... | ..... |
| 13 | 42.75 | 43.95 | 51.98 | 52.95 | ..... | ..... | ..... | ..... |
| 14 | 43.50 | 46.35 | 52.36 | 53.32 | ..... | ..... | ..... | ..... |
| 15 | 46.01 | 47.35 | 50.29 | 53.88 | ..... | ..... | 46.96 | 47.40 |
| 16 | 47.04 | 48.15 | 49.90 | 50.87 | ..... | ..... | 47.17 | 47.72 |
| 17 | ..... | ..... | 48.00 | 49.00 | 50.75 | 51.28 | 47.30 | 47.80 |
| 18 | ..... | ..... | 46.50 | 48.00 | 50.75 | 51.33 | ..... | ..... |
| 19 | ..... | ..... | 45.54 | 46.57 | 50.80 | 51.65 | ..... | ..... |
| 20 | ..... | ..... | 46.00 | 47.56 | 50.20 | 51.82 | ..... | ..... |
| 21 | ..... | ..... | 47.56 | 48.80 | 46.72 | 50.20 | ..... | ..... |
| 22 | ..... | ..... | 48.69 | 50.05 | 45.45 | 48.25 | ..... | ..... |
| 23 | 48.40 | 49.51 | 49.46 | 49.86 | 48.25 | 54.50 | ..... | ..... |
| 24 | 48.71 | 49.66 | 49.81 | 50.28 | ..... | ..... | ..... | ..... |
| 25 | 49.25 | 50.11 | 48.63 | 50.34 | ..... | ..... | ..... | ..... |
| 26 | 48.15 | 49.94 | 47.47 | 48.86 | ..... | ..... | ..... | ..... |

Bal-Gf 1--Continued.

Daily high and low water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|
| | High | Low | High | Low | High | Low | High | Low |
| 27 | 47.12 | 48.15 | 47.60 | 48.52 | ..... | ..... | ..... | ..... |
| 28 | ..... | ..... | 48.40 | 49.54 | ..... | ..... | ..... | ..... |
| 29 | ..... | ..... | 49.14 | 49.54 | ..... | ..... | ..... | ..... |
| 30 | ..... | ..... | 49.16 | 49.51 | ..... | ..... | ..... | ..... |
| 31 | 49.00 | 49.55 | 49.19 | 49.47 | ..... | ..... | ..... | ..... |

Water level, in feet below land-surface datum, 1947
(Tape measurements)^b

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|--------|-------------|---------|-------------|
| Jan. 6 | 43.10 | Apr. 1 | 45.65 | June 6 | 42.65 | Aug. 15 | 50.50 |
| 13 | 42.97 | 10 | 47.30 | 13 | 48.00 | 22 | 49.85 |
| 20 | 43.15 | 17 | 47.40 | 20 | 48.45 | 29 | 49.33 |
| 27 | 44.02 | 24 | 45.74 | 27 | 49.04 | Sept. 5 | 50.50 |
| Feb. 3 | 39.53 | 30 | 46.70 | July 3 | 47.36 | 17 | 51.28 |
| 10 | 42.51 | May 7 | 44.40 | 10 | 45.30 | 24 | 50.67 |
| 17 | 43.08 | 16 | 43.60 | 15 | 46.01 | Oct. 2 | 52.42 |
| 24 | 45.55 | 23 | 43.70 | 23 | 48.40 | 8 | 49.06 |
| Mar. 4 | 45.50 | 31 | 42.90 | 31 | 49.00 | 15 | 47.40 |
| 12 | 46.00 | June 4 | 43.27 | Aug. 9 | 53.36 | 22 | 46.34 |
| 24 | 43.00 | | | | | | |

^b Reported.

Bal-Gf 3 (*987, p. 94; 1017, p. 281; 1024, p. 156; 1072, p. 181).
Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 4 (*987, p. 95; 1017, p. 281; 1024, p. 156; 1072, p. 181).
Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 6 (*987, p. 95; 1017, p. 281; 1024, p. 157; 1072, p. 181).
Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 8 (*987, p. 95; 1017, p. 283; 1024, p. 157; 1072, p. 181).
Bethlehem Steel Co. At Sparrows Point. Pumping at time of measurement.
Water level, in feet below land-surface datum, 1947: Jan. 27, 146,
reported.

Bal-Gf 9 (*987, p. 96; 1017, p. 283; 1024, p. 157; 1072, p. 181).
Bethlehem Steel Co. At Sparrows Point. Pumping at time of measurement.
Water level, in feet below land-surface datum, 1947: Jan. 27, 188,
reported.

Bal-Gf 10. Bethlehem Steel Co.'s well Wire Mill 12. At Sparrows
Point. Used drilled industrial well, depth 645 feet. Measuring point,
air gage at pump base, 2 feet above land-surface. Water levels, in feet
below land-surface datum: Oct. 16, 1945, 186, pumping; June 1946, 131,
reported; Jan. 27, 1947, 228, pumping, reported.

Bal-Gf 12 (*987, p. 96; 1017, p. 283; 1024, p. 157; 1072, p. 181).
Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 14 (*987, p. 96; 1017, p. 283; 1024, p. 157; 1072, p. 181).
Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 16 (*987, p. 96; 1017, p. 283; 1024, p. 157; 1072, p. 181).
Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 18 (*987, p. 96; 1017, p. 283; 1024, p. 157; 1072, p. 181).
Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 28 (*987, p. 97; 1017, p. 283; 1024, p. 157; 1072, p. 181). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 29 (*987, p. 97; 1017, p. 283; 1024, p. 157; 1072, p. 182). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 30 (*987, p. 97; 1017, p. 283; 1024, p. 157; 1072, p. 182). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 31 (*987, p. 97; 1017, p. 283; 1024, p. 157; 1072, p. 182). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 32 (*987, p. 97; 1017, p. 283; 1024, p. 157; 1072, p. 182). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 33 (*987, p. 98; 1017, p. 283; 1024, p. 157; 1072, p. 182). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 34 (*987, p. 98; 1017, p. 284; 1024, p. 157; 1072, p. 182). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 36 (*987, p. 98; 1017, p. 284; 1024, p. 158; 1072, p. 182). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 37 (*987, p. 98; 1017, p. 284; 1024, p. 158; 1072, p. 182). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 38 (*987, p. 98; 1017, p. 284; 1024, p. 158; 1072, p. 182). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 46 (*987, p. 98; 1017, p. 284; 1024, p. 158; 1072, p. 182). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1947: Mar. 5, 38.6, reported.

Bal-Gf 47 (*987, p. 98; 1017, p. 284; 1024, p. 158; 1072, p. 182). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1947: Mar. 5, 88.45, reported.

Bal-Gf 48 (*987, p. 98; 1017, p. 284; 1024, p. 158; 1072, p. 182). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1947: Mar. 5, 88.90, reported.

Bal-Gf 50 (*987, p. 98; 1017, p. 284; 1024, p. 158; 1072, p. 182). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1947: Mar. 5, 70.40, reported.

Bal-Gf 51 (*987, p. 99; 1017, p. 285; 1024, p. 159; 1072, p. 183). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1947: Mar. 5, 89.10, reported.

Bal-Gf 52 (*987, p. 99; 1017, p. 285; 1024, p. 159; 1072, p. 183). Bethlehem Steel Co. At Sparrows Point. Pumping at time of measurement. Water level, in feet below land-surface datum, 1947: Mar. 5, 152, reported.

Bal-Gf 53 (*987, p. 99; 1017, p. 285; 1024, p. 159; 1072, p. 183). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1947: Mar. 5, 106, reported.

Bal-Gf 78 (*987, p. 100; 1017, p. 285; 1024, p. 159; 1072, p. 183). Bethlehem Steel Co. At Sparrows Point. Pumping at time of measurement. Water level, in feet below land-surface datum, 1947: Mar. 3, 159, reported.

Bal-Gf 79 (*987, p 100; 1017, p. 285; 1024, p. 159; 1072, p. 183).
Bethlehem Steel Co. At Sparrows Point.

Daily high and low water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | June | |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 32.80 | 33.02 | ..... | ..... | 44.51 | 44.55 | ..... | ..... | ..... | ..... |
| 2 | 32.49 | 32.96 | ..... | ..... | 44.48 | 44.51 | 39.77 | 39.81 | ..... | ..... |
| 3 | 32.32 | 32.54 | ..... | ..... | ..... | ..... | 39.77 | 39.96 | ..... | ..... |
| 4 | 32.30 | 33.09 | ..... | ..... | 43.77 | 44.11 | 39.75 | 39.96 | 32.78 | 34.90 |
| 5 | 32.76 | 33.06 | ..... | ..... | 44.11 | 44.70 | 39.55 | 39.74 | 34.90 | 38.76 |
| 6 | 32.60 | 33.00 | 40.02 | 40.18 | 44.70 | 44.80 | 39.50 | 39.55 | 38.76 | 40.48 |
| 7 | ..... | ..... | 40.02 | 40.41 | ..... | ..... | 39.50 | 39.82 | 40.48 | 41.57 |
| 8 | 32.72 | 33.00 | 40.41 | 41.34 | ..... | ..... | 39.82 | 39.98 | 41.37 | 44.09 |
| 9 | 32.90 | 33.84 | 41.30 | 41.60 | ..... | ..... | 39.50 | 39.76 | 43.99 | 44.32 |
| 10 | 33.71 | 34.20 | 41.60 | 42.11 | 44.10 | 45.15 | ..... | ..... | 44.28 | 44.47 |
| 11 | ..... | ..... | 42.11 | 42.75 | 45.15 | 45.72 | 39.62 | 39.76 | 43.63 | 44.54 |
| 12 | ..... | ..... | 42.76 | 42.86 | ..... | ..... | 39.62 | 39.69 | 43.83 | 44.30 |
| 13 | ..... | ..... | 43.17 | 43.18 | ..... | ..... | 39.69 | 39.93 | 44.28 | 44.48 |
| 14 | ..... | ..... | 43.06 | 43.18 | ..... | ..... | 39.46 | 39.93 | 44.39 | 44.48 |
| 15 | ..... | ..... | 43.01 | 43.06 | ..... | ..... | ..... | ..... | 44.39 | 44.62 |
| 16 | 33.22 | 33.55 | ..... | ..... | ..... | ..... | 39.60 | 39.61 | 44.60 | 45.01 |
| 17 | 33.50 | 33.77 | 43.01 | 43.06 | ..... | ..... | 39.61 | 39.71 | 45.01 | 45.30 |
| 18 | 33.78 | 33.93 | 43.06 | 43.15 | 41.70 | 41.86 | 39.71 | 39.85 | 45.27 | 45.30 |
| 19 | 33.30 | 33.84 | 43.10 | 43.19 | 41.83 | 41.95 | ..... | ..... | ..... | ..... |
| 20 | 33.15 | 33.30 | 43.19 | 43.30 | 41.60 | 41.83 | 39.85 | 39.96 | ..... | ..... |
| 21 | 33.15 | 34.00 | ..... | ..... | 41.26 | 41.60 | 39.62 | 39.90 | ..... | ..... |
| 22 | 34.00 | 34.80 | ..... | ..... | 41.24 | 41.30 | ..... | ..... | ..... | ..... |
| 23 | 34.54 | 34.72 | 44.47 | 44.50 | 40.95 | 41.30 | ..... | ..... | ..... | ..... |
| 24 | 34.46 | 34.58 | 44.50 | 44.55 | ..... | ..... | ..... | ..... | ..... | ..... |
| 25 | 34.52 | 34.67 | 44.46 | 44.55 | 42.14 | 42.19 | ..... | ..... | 47.47 | 47.72 |
| 26 | 34.30 | 34.65 | 44.46 | 44.48 | 42.14 | 42.92 | ..... | ..... | 47.66 | 47.98 |
| 27 | 34.08 | 34.24 | 44.48 | 44.55 | 42.92 | 43.12 | ..... | ..... | 47.84 | 48.02 |
| 28 | 34.14 | 34.23 | ..... | ..... | 42.89 | 43.00 | ..... | ..... | 47.84 | 48.04 |
| 29 | 34.06 | 34.16 | ..... | ..... | 42.29 | 42.91 | ..... | ..... | 47.90 | 48.12 |
| 30 | 34.08 | 35.51 | ..... | ..... | 42.29 | 42.53 | ..... | ..... | 47.94 | 48.12 |
| 31 | 35.51 | 37.34 | ..... | ..... | 42.43 | 42.53 | ..... | ..... | ..... | ..... |

Daily high and low water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|
| | High | Low | High | Low | High | Low | High | Low |
| 1 | 47.85 | 48.05 | 48.04 | 48.12 | ..... | ..... | 48.97 | 49.28 |
| 2 | 47.79 | 47.96 | 48.12 | 48.55 | ..... | ..... | 48.94 | 49.12 |
| 3 | 46.91 | 47.01 | 48.40 | 48.58 | ..... | ..... | 49.12 | 49.37 |
| 4 | ..... | ..... | ..... | ..... | ..... | ..... | 49.04 | 49.27 |
| 5 | ..... | ..... | ..... | ..... | ..... | ..... | 48.34 | 49.06 |
| 6 | 45.75 | 45.82 | ..... | ..... | ..... | ..... | ..... | ..... |
| 7 | 45.50 | 45.75 | ..... | ..... | ..... | ..... | ..... | ..... |
| 8 | 45.50 | 45.89 | ..... | ..... | ..... | ..... | 38.40 | 41.29 |
| 9 | 45.66 | 45.91 | 47.89 | 48.07 | ..... | ..... | ..... | ..... |
| 10 | 45.61 | 46.01 | 48.04 | 48.12 | ..... | ..... | ..... | ..... |
| 11 | 45.92 | 46.06 | ..... | ..... | ..... | ..... | ..... | ..... |
| 12 | 45.93 | 46.14 | ..... | ..... | ..... | ..... | ..... | ..... |
| 13 | 46.01 | 46.25 | ..... | ..... | ..... | ..... | ..... | ..... |
| 14 | 46.03 | 46.25 | 48.71 | 48.98 | ..... | ..... | ..... | ..... |
| 15 | 46.10 | 46.39 | 48.92 | 49.26 | ..... | ..... | 37.04 | 37.18 |
| 16 | 46.07 | 46.39 | ..... | ..... | ..... | ..... | ..... | ..... |
| 17 | 46.27 | 46.48 | ..... | ..... | ..... | ..... | ..... | ..... |
| 18 | 46.39 | 46.56 | ..... | ..... | ..... | ..... | ..... | ..... |
| 19 | 46.56 | 46.80 | ..... | ..... | 48.26 | 48.40 | ..... | ..... |
| 20 | 46.80 | 47.00 | ..... | ..... | 48.40 | 48.68 | ..... | ..... |
| 21 | 46.76 | 46.95 | ..... | ..... | 47.50 | 48.48 | ..... | ..... |
| 22 | 46.77 | 46.96 | ..... | ..... | 47.32 | 48.36 | ..... | ..... |
| 23 | 46.95 | 47.76 | ..... | ..... | 48.36 | 48.64 | ..... | ..... |

Bal-Gf 79--Continued.

Daily high and low water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|
| | High | Low | High | Low | High | Low | High | Low |
| 24 | ..... | ..... | ..... | ..... | 48.25 | 48.39 | ..... | ..... |
| 25 | 47.76 | 48.12 | ..... | ..... | 48.25 | 48.49 | ..... | ..... |
| 26 | ..... | ..... | ..... | ..... | 48.46 | 48.69 | ..... | ..... |
| 27 | ..... | ..... | ..... | ..... | 48.69 | 48.93 | ..... | ..... |
| 28 | ..... | ..... | ..... | ..... | 48.46 | 48.79 | ..... | ..... |
| 29 | ..... | ..... | ..... | ..... | 48.18 | 48.46 | ..... | ..... |
| 30 | ..... | ..... | ..... | ..... | 48.18 | 48.97 | ..... | ..... |
| 31 | 47.97 | 48.04 | ..... | ..... | ..... | ..... | ..... | ..... |

Water level, in feet below land-surface datum, 1947
(Tape measurements)^b/

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 6 | 33.49 | Mar. 24 | 42.2 | June 11 | 43.65 | Aug. 15 | 48.92 |
| 8 | 32.72 | Apr. 2 | 39.8 | 18 | 43.95 | 22 | 48.46 |
| 16 | 33.22 | 9 | 39.5 | 25 | 47.55 | 29 | 49.03 |
| 23 | 34.72 | 16 | 39.6 | July 3 | 47.01 | Sept. 5 | 49.33 |
| 30 | 34.21 | 22 | 36.8 | 4 | 47.8 | 12 | 48.40 |
| Feb. 6 | 40.18 | 30 | 34.1 | 6 | 45.80 | 17 | 48.5 |
| 13 | 43.17 | May 7 | 31.2 | 10 | 45.66 | 19 | 48.26 |
| 23 | 44.47 | 14 | 30.1 | 16 | 46.07 | 26 | 48.62 |
| Mar. 3 | 43.77 | 22 | 30.05 | 23 | 49.24 | Oct. 1 | 49.25 |
| 10 | 44.1 | 31 | 30.7 | 31 | 47.97 | 9 | 41.29 |
| 18 | 41.7 | June 4 | 32.78 | Aug. 9 | 47.9 | 15 | 37.05 |

^b Reported.Bal-Gf 89 (#987, p. 100; 1017, p. 287; 1024, p. 161; 1072, p. 185).
Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.Bal-Gf 93 (#987, p. 101; 1017, p. 287; 1024, p. 161; 1072, p. 185).
Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.Bal-Gf 100 (#987, p. 101; 1017, p. 287; 1024, p. 161; 1072, p. 185).
Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.Bal-Gf 107 (#987, p. 101; 1017, p. 287; 1024, p. 161; 1072, p. 185).
Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1947: Mar. 3, 69.10, reported.Bal-Gf 108 (#987, p. 101; 1017, p. 287; 1024, p. 161; 1072, p. 185).
Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1947: Mar. 3, 69.90, reported.Bal-Gf 131 (#987, p. 102; 1017, p. 287; 1024, p. 161; 1072, p. 185).
Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.Bal-Gf 136 (#987, p. 102; 1017, p. 287; 1024, p. 161; 1072, p. 185).
Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.Bal-Gf 138 (#987, p. 102; 1017, p. 287; 1024, p. 161 ; 1072, p. 185).
Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.Bal-Gf 139 (#987, p. 102; 1017, p. 287; 1024, p. 161; 1072, p. 185).
Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.Bal-Gf 140 (#987, p. 102; 1017, p. 287; 1024, p. 161; 1072, p. 185).
Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1947: Mar. 3, 83, reported.

Bal-Gf 165 (*1072, p. 185). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 166 (*987, p. 102; 1017, p. 287; 1024, p. 161; 1072, p. 185). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 167 (*987, p. 102; 1017, p. 288; 1024, p. 162; 1072, p. 185). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 168 (*987, p. 102; 1017, p. 288; 1024, p. 162; 1072, p. 185). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1947: Mar. 12, 83.6, reported.

Bal-Gf 169 (*987, p. 102; 1017, p. 288; 1024, p. 162; 1072, p. 186). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 170 (*987, p. 103; 1017, p. 288; 1024, p. 162; 1072, p. 186). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1947: Mar. 12, 42.10, reported.

Bal-Gf 171 (*987, p. 103; 1017, p. 288; 1024, p. 162; 1072, p. 186). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1947: Mar. 12, 89.33, reported.

Bal-Gf 172 (*987, p. 103; 1017, p. 288; 1024, p. 162; 1072, p. 186). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 173 (*987, p. 103; 1017, p. 288; 1024, p. 162; 1072, p. 186). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 174 (*987, p. 103; 1017, p. 288; 1024, p. 162; 1072, p. 186). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1947: Mar. 12, 99.1, reported.

Bal-Gf 175 (*987, p. 103; 1017, p. 288; 1024, p. 162; 1072, p. 186). Bethlehem Steel Co. At Sparrows Point. Pumping at time of measurement. Water level, in feet below land-surface datum, 1947: Jan. 12, 121, reported.

Bal-Gf 176 (*987, p. 103; 1017, p. 288; 1024, p. 162; 1072, p. 186). Bethlehem Steel Co. At Sparrows Point. Pumping at time of measurement. Water level, in feet below land-surface datum, 1947: Jan. 12, 151, reported; Mar. 12, 161, reported.

Bal-Gf 177 (*987, p. 103; 1017, p. 288; 1024, p. 162; 1072, p. 186). Bay Shore Park. Longitude 76°25'30", latitude 39°12'30".

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 9 | 41.27 | Mar. 29 | 45.46 | June 20 | 46.17 | Aug. 25 | 46.89 |
| Feb. 3 | 40.80 | May 10 | 45.61 | July 21 | 45.47 | Dec. 16 | 50.30 |
| Mar. 1 | 43.21 | | | | | | |

Bal-Gf 178. Bay Shore Park. 1.2 miles northeast of North Point. Drilled well, diameter 8 inches, depth 339 feet. Measuring point, top of cap on 4-inch pipe, 1.5 feet above land surface.

Water level, in feet below land-surface datum, 1945-47

| Date | Water level | Date | Water level | Date | Water level |
|---------------|-------------|--------------|-------------|---------------|-------------|
| Oct. 22, 1945 | 13.64 | Mar. 1, 1947 | 20.98 | July 21, 1947 | 20.25 |
| Dec. 5, 1946 | 16.38 | 29 | 19.12 | Aug. 25 | 21.55 |
| Jan. 9, 1947 | 18.09 | May 10 | 18.88 | Dec. 16 | 17.33 |
| Feb. 3 | 18.95 | June 20 | 19.42 | | |

Bal-Gf 183 (*1017, p. 289; 1024, p. 162; 1072, p. 186). Chesapeake Terrace School. At Lodge Forest.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Jan. 9 | 31.06 | Mar. 1 | 36.64 | June 20 | 31.92 | Aug. 25 | 33.88 |
| Feb. 3 | 31.13 | May 10 | 33.55 | July 21 | 33.25 | Dec. 16 | 31.99 |

Bal-Gf 191 (*1072, p. 187). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 192 (*1072, p. 187). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 200 (*1072, p. 187). Bethlehem Steel Co. At Sparrows Point. No measurements made in 1947.

Bal-Gf 201 (*1072, p. 187). Bethlehem Steel Co. At Sparrows Point. Water level, in feet below land-surface datum, 1947: Mar. 3, 57, reported.

Bal-Gf 202 (*1072, p. 187). Bethlehem Steel Co. At Sparrows Point. Water levels, in feet below land-surface datum, 1947: Jan. 15, 40, reported; Mar. 3, 60, reported.

Calvert County

Cal-Bb 1. Gorman Lyons. In Dunkirk, on west side of Route 416, 0.1 mile north of school. Dug domestic well, diameter 48 inches, depth 43.5 feet. Measuring point, top of concrete curbing, 0.9 foot above land surface.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|--------|-------|---------|-------|----------|-------|
| Jan. 13 | 27.87 | May 6 | 30.26 | June 18 | 28.47 | Aug. 18 | 31.13 |
| Apr. 7 | 29.54 | 20 | 30.74 | 30 | 26.24 | Sept. 23 | 31.93 |
| 22 | 30.94 | June 3 | 30.86 | July 24 | 29.40 | | |

Cal-Dc 6. Frank Mister. On Dares Beach road, 0.2 mile east of Dares post office. Used as domestic supply for two families. Measured depth 34.44 feet. Measuring point, until Sept. 23, 1947, top of casing, 3.2 feet above land surface; Sept. 23, 1947, and thereafter, 3.7 feet above land surface.

Water level, in feet below land-surface datum, 1946-47

| Date | Water level | Date | Water level | Date | Water level |
|--------------|-------------|--------------|-------------|---------------|-------------|
| July 2, 1946 | 31.30 | May 20, 1947 | 33.40 | June 30, 1947 | 33.40 |
| Apr. 8, 1947 | 33.26 | June 3 | 33.35 | July 24 | 33.50 |
| 22 | 33.34 | 18 | 33.30 | Sept. 23 | 33.59 |
| May 6 | 32.96 | | | | |

Cal-Dc 18. A. Goldstein. In Prince Frederick, 100 feet east of Route 2 at church. Well apparently abandoned. Measured depth 25.99 feet. Measuring point, floor, 0.5 foot above land surface. Water levels, in feet below land-surface datum, 1947: July 4, 19.19; July 24, 19.26; Aug. 18, 19.55; Sept. 23, 19.61.

Cal-Ec 4. W. W. Ross. 400 feet south of Mutual post office, on west side of main road (Route 264). Used for domestic supply. Measured depth 49.1 feet. Measuring point, top of coping, 3.8 feet above land surface.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|----------|-------------|
| Apr. 7 | 43.90 | May 20 | 43.78 | June 30 | 43.10 | Aug. 18 | 43.48 |
| 22 | 43.90 | June 3 | 43.67 | July 24 | 43.22 | Sept. 23 | 44.54 |
| May 6 | 43.71 | 18 | 43.44 | | | | |

Cal-Ec 5. Benjamin Parran. On east side of Route 265, 1.2 miles south of Hardesty Corner, 2.5 miles north-northwest of Mackall. Used for stock. Depth 32.60 feet. Measuring point, curb, 3.2 feet above land surface.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|-------|-------------|--------|-------------|---------|-------------|----------|-------------|
| May 6 | 28.15 | June 3 | 27.97 | June 30 | 27.68 | Aug. 18 | 27.46 |
| 20 | 27.93 | 18 | 27.75 | July 24 | 27.44 | Sept. 23 | 27.97 |

Cal-Fd 12. Ambassador Neilson. About 1 mile east of Wallville near St. Leonard Creek, "Cove Farm". Depth 22.35 feet. Measuring point, well curb, 4.65 feet above land surface.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|---------|-------------|----------|-------------|
| Apr. 23 | 13.55 | June 3 | 11.54 | June 30 | 12.35 | Aug. 18 | 14.45 |
| May 6 | 12.10 | 18 | 11.80 | July 24 | 13.23 | Sept. 23 | 13.99 |
| 20 | 12.48 | | | | | | |

Cal-Fd 14. W. B. Glascock. 1.2 miles north of Solomons, 0.2 mile east of Route 2, on Back Creek. Abandoned drilled well, diameter 1.5 inches depth about 455 feet. Measuring point, top of casing, 0.7 foot above land-surface.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|---------|-------------|----------|-------------|
| Apr. 30 | 16.40 | May 25 | 16.90 | June 30 | 11.38 | Aug. 18 | 9.70 |
| May 6 | 15.46 | June 3 | 14.51 | July 24 | 10.20 | Sept. 23 | 9.53 |
| 20 | 15.83 | 18 | 11.90 | | | | |

Cal-Gd 4. U. S. Navy Amphibious Training Base. 1.4 miles south of Dowell on east side of Route 504. Unused drilled well, diameter 8 inches, depth 248 feet. Measuring point, top of casing, 8.35 feet below land-surface.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|----------|-------------|
| Apr. 8 | 35.05 | May 22 | 33.24 | June 30 | 26.49 | Aug. 18 | 26.98 |
| 23 | 32.23 | June 3 | 28.43 | July 24 | 26.99 | Sept. 23 | 26.91 |
| May 6 | 41.05 | 18 | 27.30 | | | | |

Cal-Gd 20. G. F. Beavan. In Solomons, second house south of biological laboratory. Well not used. Depth 12+ feet. Measuring point, top of pipe, 4.20 feet below land surface.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|---------|-------------|----------|-------------|
| Apr. 23 | 12.90 | June 3 | 12.97 | June 30 | 12.99 | Aug. 18 | 13.08 |
| May 6 | 12.99 | 18 | 12.88 | July 24 | 13.20 | Sept. 23 | 13.10 |
| 20 | 12.99 | | | | | | |

Cal-Gd 22. Standard Oil Co. of New Jersey. In Solomons, 0.3 mile east by north from post office. Unused drilled well, diameter 3 inches, depth about 320 feet. Measuring point, top of casing, 1.5 feet above land surface.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|----------|-------------|
| May 21 | 18.37 | June 18 | 16.15 | July 24 | 17.07 | Sept. 23 | 15.45 |
| June 3 | 17.24 | 30 | 13.95 | Aug. 18 | 17.54 | | |

Carroll County

Car-Bb 1 (*1072, p. 187). Mrs. Joe Elliott. At Taneytown, about 500 feet north of intersection of Routes 32 and 71.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Jan. 2 | 2.80 | Apr. 4 | 2.80 | June 6 | 3.17 | Oct. 3 | 6.20 |
| Feb. 7 | 2.80 | 12 | 2.96 | July 11 | 3.27 | Nov. 20 | 2.75 |
| Mar. 8 | 1.54 | May 5 | 3.15 | Aug. 14 | 4.41 | Dec. 26 | 3.25 |
| 15 | 1.81 | 31 | 2.78 | Sept. 6 | 4.24 | | |

Car-Bf 1 (*1072, p. 188). Town of Hampstead's well 1. At Hampstead, about 0.5 mile south and 36' east of intersection of Western Maryland Railway and Route 30. Water levels, in feet below land-surface datum, 1947: Apr. 12, 67.21; Sept. 10, 70.96.

Charles County

Ch-Bc 10. Mrs. Louise Brown. In Potomac Heights, on Route 224, 0.2 mile northeast of State Roads Commission garage. Dug domestic well, diameter 36 inches, measured depth 38.80 feet. Measuring point, right edge of wooden box, 6.5 feet above land surface.

Water level, in feet below land-surface datum, 1946-47

| Date | Water level | Date | Water level | Date | Water level |
|---------------|-------------|---------------|-------------|---------------|-------------|
| Nov. 14, 1946 | 28.20 | Mar. 11, 1947 | 28.29 | Apr. 30, 1947 | 27.99 |
| Jan. 28, 1947 | 28.34 | 18 | 28.15 | May 15 | 28.20 |
| Feb. 4 | 28.11 | Apr. 2 | 28.03 | June 11 | 30.25 |
| 11 | 28.19 | 8 | 28.12 | July 29 | 27.36 |
| 25 | 28.27 | 14 | 28.08 | Sept. 4 | 28.05 |
| Mar. 5 | 27.92 | 21 | 28.09 | Oct. 6 | 28.43 |

Ch-Bd 5. James W. Clark. 1.1 miles north of Bryans Road, 300 feet east of Route 226. Dug domestic well, diameter 32 inches, measured depth 17.72 feet. Measuring point, ivory paint mark on cement curb, at land surface.

Water level, in feet below land-surface datum, 1946-47

| Date | Water level | Date | Water level | Date | Water level |
|---------------|-------------|---------------|-------------|---------------|-------------|
| Nov. 14, 1946 | 13.43 | Mar. 11, 1947 | 10.49 | Apr. 30, 1947 | 12.81 |
| Jan. 28, 1947 | 9.72 | 18 | 12.05 | May 15 | 13.28 |
| Feb. 4 | 12.55 | Apr. 2 | 12.64 | June 11 | 13.65 |
| 11 | 13.63 | 8 | 13.11 | July 29 | 14.29 |
| 25 | 13.64 | 14 | 12.74 | Sept. 4 | 14.05 |
| Mar. 5 | 13.24 | 21 | 12.56 | Oct. 6 | 13.93 |

Ch-Bf 2. Maryland State Police, Barracks "H". 25 miles northeast of Waldorf, on southeast side of Route 301. Dug domestic well, diameter 54 inches, measured depth 18.56 feet. Measuring point, southwest hole in iron cover, 0.46 foot below land surface.

Water level, in feet below land-surface datum, 1946-47

| Date | Water level | Date | Water level | Date | Water level |
|---------------|-------------|---------------|-------------|--------------|-------------|
| Nov. 13, 1946 | 15.10 | Mar. 18, 1947 | 15.28 | May 15, 1947 | 14.91 |
| Jan. 28, 1947 | 15.59 | 26 | 15.06 | June 11 | 14.73 |
| Feb. 4 | 15.40 | Apr. 2 | 14.95 | July 1 | 14.54 |
| 11 | 15.50 | 8 | 14.82 | July 29 | 14.72 |
| 25 | 15.33 | 14 | 14.79 | Sept. 4 | 15.25 |
| Mar. 5 | 15.35 | 21 | 14.70 | Oct. 6 | 15.65 |
| 11 | 15.33 | 30 | 14.88 | Nov. 6 | 15.67 |

Ch-Bf 22. U. S. Dept. of Justice. On south side of Route 233, 0.6 mile from Waldorf-Hughesville road. Dug domestic well, diameter 36 inches, measured depth 23.91 feet. Measuring point, ivory paint mark on wood cover support, at land surface.

Water level in feet below land-surface datum, 1946-47

| Date | Water level | Date | Water level | Date | Water level |
|---------------|-------------|---------------|-------------|--------------|-------------|
| Nov. 13, 1946 | 21.83 | Mar. 18, 1947 | 21.27 | May 15, 1947 | 21.47 |
| Jan. 28, 1947 | 21.29 | 26 | 21.62 | June 11 | 21.49 |
| Feb. 4 | 21.30 | Apr. 2 | 21.34 | July 1 | 20.89 |
| 11 | 21.28 | 8 | 21.30 | 29 | 21.03 |
| 25 | 21.18 | 14 | 21.44 | Sept. 4 | 21.40 |
| Mar. 5 | 21.26 | 21 | 21.42 | Oct. 6 | 21.48 |
| 11 | 21.22 | 30 | 21.60 | Nov. 6 | 21.58 |

Ch-Cg 1. Southern Maryland Electric Cooperative. In Hughesville, at northwest corner of junction of Routes 5 and 231. Drilled well, diameter 6 inches, depth 548 feet. Measuring point, top of casing, 1.64 feet above land surface.

Water level, in feet below land-surface datum, 1946-47

| | | | | | |
|---------------|--------|---------------|--------|---------------|--------|
| Nov. 11, 1946 | 140.58 | Mar. 11, 1947 | 140.60 | Apr. 30, 1947 | 140.49 |
| Jan. 9, 1947 | 140.47 | 18 | 140.41 | May 15 | 140.32 |
| 28 | 140.45 | Apr. 2 | 140.44 | June 11 | 140.54 |
| Feb. 4 | 140.25 | 8 | 140.67 | July 1 | 140.60 |
| 11 | 140.27 | 14 | 140.60 | 29 | 140.80 |
| 25 | 140.35 | 21 | 140.55 | Sept. 4 | 140.91 |

Ch-Cg 2. Lyons Department Store. In Hughesville, at northeast corner of junction of Routes 5 and 231, in basement of store. Dug domestic well, diameter 36 inches, measured depth 11.76 feet. Measuring point, top of pipe in cement lid, 2.42 feet below land surface.

Water level, in feet below land-surface datum, 1946-47

| | | | | | |
|---------------|------|---------------|------|--------------|------|
| Nov. 13, 1946 | 6.31 | Mar. 18, 1947 | 5.98 | May 15, 1947 | 6.31 |
| Jan. 28, 1947 | 5.92 | 26 | 5.94 | June 11 | 6.18 |
| Feb. 4 | 5.92 | Apr. 2 | 5.99 | July 1 | 5.96 |
| 11 | 6.09 | 8 | 6.10 | 29 | 6.39 |
| 25 | 6.14 | 14 | 6.06 | Sept. 4 | 6.59 |
| Mar. 5 | 6.18 | 21 | 6.02 | Oct. 6 | 6.82 |
| 11 | 6.09 | 30 | 6.06 | Nov. 6 | 7.02 |

Ch-Db 1. Mrs. M. C. Ward. In Nanjemoy, at northwest corner of cross-roads in center of town. Dug domestic well, diameter 32 inches, measured depth 59.09 feet. Measuring point, center of front of wooden box, 2.48 feet above land surface.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|--------|-------------|---------|-------------|
| Jan. 27 | 7.05 | Feb. 25 | 11.26 | Apr. 2 | 9.50 | Apr. 30 | 9.24 |
| 28 | 6.89 | Mar. 5 | 10.56 | 8 | 9.50 | May 15 | 13.61 |
| Feb. 4 | 7.91 | 11 | 8.89 | 14 | 10.11 | June 11 | 23.05 |
| 11 | 9.07 | 18 | 7.76 | 21 | 9.25 | July 29 | 26.68 |

Ch-Dd 6. Roy Greer. 3.1 miles southwest of Port Tobacco, on west side of Welcome-Port Tobacco road (Route 6). Dug domestic well, diameter 36 inches, measured depth 24.5 feet. Measuring point, top of pipe in center of brick foundation, 1.17 feet above land surface.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|---------|-------|---------|-------|
| Jan. 28 | 21.93 | Mar. 11 | 21.09 | Apr. 21 | 21.53 | July 29 | 21.86 |
| Feb. 4 | 21.56 | 18 | 21.89 | 30 | 21.69 | Sept. 4 | 22.14 |
| 11 | 21.72 | Apr. 2 | 22.07 | May 15 | 21.73 | Oct. 6 | 22.68 |
| 25 | 21.69 | 8 | 22.12 | June 11 | 23.32 | 26 | 23.20 |
| Mar. 5 | 22.46 | 14 | 21.70 | | | | |

Ch-Df 1. Simpson's Store. At Olivers Shop, on northeast corner of junction of Routes 6 and 232. Dug domestic well, diameter 36 inches, measured depth 20.43 feet. Measuring point, ivory paint mark on cement curb, 1.55 feet above land surface.

Water level, in feet below land-surface datum, 1946-47

| Date | Water level | Date | Water level | Date | Water level |
|---------------|-------------|---------------|-------------|--------------|-------------|
| Nov. 13, 1946 | 18.02 | Mar. 18, 1947 | 17.60 | May 15, 1947 | 18.11 |
| Jan. 28, 1947 | 17.46 | 26 | 17.57 | June 11 | 18.25 |
| Feb. 4 | 17.24 | Apr. 2 | 17.77 | July 1 | 17.80 |
| 11 | 17.62 | 8 | 17.76 | 29 | 18.12 |
| 25 | 17.53 | 14 | 17.73 | Sept. 4 | 18.67 |
| Mar. 5 | 17.79 | 21 | 17.76 | Oct. 6 | 18.95 |
| 11 | 17.99 | 30 | 17.80 | Nov. 6 | 20.53 |

Ch-Ee 15. J. B. Bowling. 0.3 mile south of Wayside, on north side of Route 3, on top of hill behind house. Dug domestic well, diameter 42 inches, depth 62 feet. Measuring point, ivory paint mark on southwest vertical joist, 3.33 feet above land surface.

Water level, in feet below land-surface datum, 1946-47

| Date | Water level | Date | Water level | Date | Water level |
|---------------|-------------|---------------|-------------|--------------|-------------|
| Nov. 11, 1946 | 46.18 | Mar. 18, 1947 | 45.32 | May 15, 1947 | 48.26 |
| Jan. 28, 1947 | 45.71 | 26 | 45.23 | June 25 | 47.93 |
| Feb. 4 | 45.71 | Apr. 2 | 48.73 | July 29 | 49.11 |
| 11 | 45.64 | 8 | 46.49 | Sept. 4 | 49.00 |
| 25 | 45.43 | 14 | 45.76 | Oct. 6 | 48.43 |
| Mar. 5 | 45.39 | 21 | 49.86 | Nov. 6 | 47.90 |
| 11 | 45.31 | 30 | 47.20 | | |

Ch-Ee 16. J. B. Bowling. 0.3 mile south of Wayside, on north side of Route 3, near northwest corner of barn. Dug well, diameter 42 inches, measured depth 23.26 feet. Measuring point, top of vertical joist in well box, 2.99 feet above land surface.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 28 | 13.66 | Mar. 11 | 14.66 | Apr. 14 | 14.73 | July 29 | 15.38 |
| Feb. 4 | 13.77 | 18 | 14.53 | 21 | 14.75 | Sept. 4 | 15.60 |
| 11 | 14.09 | 26 | 14.57 | 30 | 14.80 | Oct. 6 | 15.72 |
| 25 | 14.54 | Apr. 2 | 14.65 | May 15 | 14.83 | Nov. 6 | 15.80 |
| Mar. 5 | 14.70 | 8 | 14.72 | June 25 | 14.44 | | |

Ch-Ee 32. Joseph Wemble. On east side of Route 301, 0.4 mile south of Glass School, and 2.8 miles south of Faulkner. Dug stock well, diameter 32 inches, measured depth 34.45 feet. Measuring point, ivory paint mark on casing board, 3.46 feet above land surface.

Water level, in feet below land-surface datum, 1946-47

| Date | Water level | Date | Water level | Date | Water level |
|---------------|-------------|---------------|-------------|--------------|-------------|
| Nov. 13, 1946 | 28.62 | Mar. 18, 1947 | 27.89 | May 15, 1947 | 27.67 |
| Jan. 28, 1947 | 28.36 | 26 | 27.71 | June 11 | 27.34 |
| Feb. 4 | 28.18 | Apr. 2 | 27.52 | July 1 | 27.18 |
| 11 | 27.83 | 8 | 27.61 | 29 | 27.45 |
| 25 | 28.30 | 14 | 27.52 | Sept. 4 | 28.77 |
| Mar. 5 | 28.17 | 21 | 27.38 | Oct. 6 | 29.22 |
| 11 | 28.00 | 30 | 27.39 | Nov. 6 | 29.09 |

Ch-Ff 24. Joseph Holton. 0.3 mile southeast of Issue, on northeast side of Route 3. Dug domestic and stock well, diameter 32 inches, measured depth 14.77 feet. Measuring point, ivory paint mark on hinge line, 2.93 feet above land surface.

Water level, in feet below land-surface datum, 1946-47

| Date | Water level | Date | Water level | Date | Water level |
|---------------|-------------|---------------|-------------|---------------|-------------|
| Nov. 13, 1946 | 6.70 | Mar. 11, 1947 | 1.49 | Apr. 30, 1947 | 2.56 |
| Jan. 8, 1947 | 1.96 | 18 | 1.72 | May 15 | 4.21 |
| 28 | 1.51 | 26 | 1.81 | June 11 | 3.60 |
| Feb. 4 | 1.76 | Apr. 2 | 2.19 | July 29 | 6.46 |
| 11 | 2.79 | 8 | 2.54 | Sept. 4 | 7.37 |
| 25 | 3.09 | 14 | 1.75 | Oct. 6 | 7.33 |
| Mar. 5 | 1.50 | 21 | 1.67 | Nov. 6 | 7.07 |

Dorchester County

Dor-Ge 11 (*1072, p. 188). Dorchester Water Co. In Cambridge, on northeast corner of intersection of Mill and Water Streets.

Daily-high and low water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|
| | High | Low | High | Low | High | Low | High | Low |
| 1 | ..... | ..... | 56.37 | 58.43 | 92.37 | 93.75 | 70.50 | 72.15 |
| 2 | ..... | ..... | 55.22 | 56.56 | 77.36 | 88.33 | 69.03 | 70.70 |
| 3 | ..... | ..... | 54.80 | 55.63 | 75.00 | 91.09 | 68.33 | 69.78 |
| 4 | ..... | ..... | 54.80 | 55.85 | 72.85 | 89.61 | 67.85 | 68.83 |
| 5 | ..... | ..... | 54.80 | 69.91 | ..... | ..... | 66.01 | 68.22 |
| 6 | ..... | ..... | 57.11 | 73.06 | 77.85 | 91.40 | 65.50 | 66.32 |
| 7 | ..... | ..... | 60.11 | 76.22 | 72.48 | 77.85 | 65.32 | 65.98 |
| 8 | ..... | ..... | 62.29 | 77.16 | 71.57 | 72.57 | 64.78 | 66.12 |
| 9 | ..... | ..... | 63.16 | 76.90 | ..... | ..... | 63.70 | 64.91 |
| 10 | ..... | ..... | 61.42 | 64.50 | ..... | ..... | 63.32 | 63.75 |
| 11 | ..... | ..... | 60.55 | 61.73 | ..... | ..... | ..... | ..... |
| 12 | ..... | ..... | 60.66 | 78.00 | ..... | ..... | ..... | ..... |
| 13 | ..... | ..... | 64.35 | 81.57 | 76.36 | 89.28 | ..... | ..... |
| 14 | ..... | ..... | 66.99 | 82.94 | 72.88 | 77.60 | ..... | ..... |
| 15 | ..... | ..... | 67.55 | 82.72 | 71.53 | 85.08 | ..... | ..... |
| 16 | ..... | ..... | 68.01 | 81.13 | 72.31 | 87.65 | ..... | ..... |
| 17 | ..... | ..... | 64.91 | 69.50 | 73.75 | 87.75 | ..... | ..... |
| 18 | 59.78 | 60.54 | 62.98 | 64.91 | 77.00 | 88.00 | ..... | ..... |
| 19 | 58.44 | 60.44 | 62.70 | 80.83 | 75.02 | 88.70 | ..... | ..... |
| 20 | 57.05 | 58.71 | ..... | ..... | 73.95 | 87.60 | ..... | ..... |
| 21 | 56.00 | 57.51 | 68.42 | 84.76 | 70.20 | 73.95 | ..... | ..... |
| 22 | 56.49 | 57.63 | 70.88 | 86.41 | 69.72 | 71.72 | ..... | ..... |
| 23 | 56.76 | 57.88 | 71.00 | 84.55 | 70.86 | 71.83 | ..... | ..... |
| 24 | 57.24 | 58.99 | 66.55 | 71.00 | ..... | ..... | ..... | ..... |
| 25 | 57.63 | 58.37 | 65.88 | 80.83 | ..... | ..... | ..... | ..... |
| 26 | 57.36 | 57.97 | 68.13 | 85.64 | 71.42 | 85.46 | ..... | ..... |
| 27 | 57.10 | 57.61 | 72.71 | 88.93 | 71.55 | 83.60 | ..... | ..... |
| 28 | 56.87 | 58.94 | 73.88 | 89.60 | 68.82 | 71.55 | ..... | ..... |
| 29 | 58.23 | 60.11 | 74.65 | 89.60 | 68.19 | 70.51 | ..... | ..... |
| 30 | 58.11 | 59.70 | 74.86 | 88.63 | 69.32 | 83.33 | ..... | ..... |
| 31 | 58.01 | 58.95 | 86.40 | 92.37 | ..... | ..... | ..... | ..... |

Dor-Ce 11--Continued.

Water level, in feet below land-surface datum, 1946-47
(Tape measurements)

| Date | Water level | Date | Water level | Date | Water level |
|---------------|-------------|---------------|-------------|---------------|-------------|
| June 14, 1946 | 67.65 | July 18, 1947 | 59.78 | Aug. 26, 1947 | 83.08 |
| July 11 | 65.70 | 25 | 57.96 | Sept. 5 | 90.34 |
| 15 | 66.01 | Aug. 12 | 74.32 | 15 | 84.37 |
| 15 | 66.10 | 12 | 74.40 | 26 | 84.46 |
| Sept. 4 | 93.18 | 18 | 63.32 | Oct. 7 | 65.69 |
| Oct. 29 | 70.72 | 22 | 84.95 | 10 | 63.75 |

Frederick County

Fr-Bd 1 (*1072, p. 188). Town of Thurmont. At High Run, 1.4 miles south and 39° west of Thurmont.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Feb. 7 | 11.25 | Apr. 12 | 11.70 | July 11 | 12.50 | Oct. 3 | 15.74 |
| Mar. 8 | 12.73 | May 5 | 10.96 | Aug. 13 | 13.98 | Nov. 22 | 17.95 |
| 15 | 10.43 | 31 | 9.64 | Sept. 6 | 14.48 | Dec. 26 | 17.50 |
| Apr. 4 | 11.41 | June 6 | 11.17 | | | | |

Fr-Cg 1 (*1072, p. 188). Jesse N. Nicodemus. At Johnsville, 1.25 miles north and 15° east of intersection of Routes 26 and 641.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Jan. 6 | 38.74 | Apr. 7 | 37.09 | July 14 | 36.60 | Oct. 13 | 39.02 |
| 13 | 38.84 | 15 | 37.49 | 21 | 35.18 | 20 | 39.07 |
| 20 | 38.50 | 21 | 37.67 | 28 | 36.20 | 27 | 39.19 |
| 27 | 37.52 | 28 | 37.90 | Aug. 4 | 36.70 | Nov. 3 | 39.30 |
| Feb. 3 | 36.52 | May 5 | 37.10 | 11 | 37.25 | 12 | 37.50 |
| 12 | 37.20 | 12 | 38.13 | 18 | 37.58 | 17 | 38.13 |
| 17 | 37.38 | 19 | 38.35 | 25 | 37.30 | 24 | 38.50 |
| 24 | 37.69 | 26 | 37.20 | Sept. 1 | 38.05 | Dec. 1 | 38.25 |
| Mar. 4 | 37.95 | June 2 | 37.56 | 8 | 38.23 | 8 | 38.30 |
| 11 | 37.30 | 9 | 37.10 | 15 | 38.40 | 15 | 38.44 |
| 17 | 35.14 | 16 | 37.50 | 22 | 38.56 | 22 | 38.53 |
| 24 | 36.10 | 23 | 37.85 | 29 | 38.72 | 29 | 38.50 |
| 31 | 36.70 | 30 | 38.00 | Oct. 6 | 38.85 | | |

Fr-Ee 1 (*1072, p. 189). Mrs. Roy Putnam. About 30 feet south of Route 40, 0.65 mile west of Monocacy River bridge.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|----------|-------------|---------|-------------|
| Feb. 3 | 52.05 | Apr. 2 | 51.55 | June 11 | 52.31 | Oct. 14 | 53.98 |
| 19 | 52.04 | 12 | 51.57 | July 9 | 52.30 | Nov. 13 | 54.25 |
| Mar. 5 | 52.00 | 29 | 51.84 | Aug. 7 | 52.65 | 22 | 54.98 |
| 15 | 51.95 | May 31 | 51.99 | Sept. 10 | 53.16 | Dec. 29 | 54.98 |

Fr-Fc 1 (*1072, p. 189). Montgomery Orrison. About 1 mile east of Point of Rocks, 500 feet east of intersection of Route 15 and Baltimore & Ohio Railroad.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Feb. 19 | 12.87 | Apr. 28 | 15.19 | Aug. 6 | 18.95 | Oct. 10 | 22.97 |
| Apr. 1 | 12.43 | June 11 | 13.04 | Sept. 12 | 21.42 | Nov. 14 | 22.95 |
| 22 | 14.65 | July 8 | 16.37 | | | | |

Fr-Fd 3 (*1072, p. 189). Thomas & Co. At Adamstown, about 700 feet north and 25° east of Baltimore & Ohio Railroad. Water levels, in feet below land-surface datum, 1947: Feb. 19, 13.30; Apr. 21, 14.54; Sept. 10, 40.29; Dec. 5, 16.03.

Garrett County

Gar-Ag 1 (*1072, p. 189). Town of Frostburg. In Savage River Valley, about 4 miles north and 40° west of Frostburg.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|--------|-------------|
| Feb. 6 | 7.65 | June 3 | 7.76 | Aug. 6 | 7.87 | Oct. 2 | 8.27 |
| Apr. 22 | 7.73 | July 10 | 7.79 | Sept. 3 | 7.99 | Nov. 5 | 8.13 |
| 28 | 7.71 | | | | | | |

Gar-Bb 1 (*1072, p. 189). R. O. McCullough. At Friendsville, about 500 feet south and 85° east of Youghiogheny River bridge.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|--------|-------|---------|-------|--------|-------|---------|-------|
| Jan. 8 | 8.08 | Mar. 5 | 24.50 | June 4 | 23.98 | Sept. 3 | 30.90 |
| Feb. 6 | 13.75 | 29 | 23.98 | July 9 | 14.88 | Oct. 2 | 26.08 |
| 20 | 21.65 | Apr. 23 | 24.27 | Aug. 7 | 26.97 | Nov. 4 | 27.15 |

Gar-Db 7 (*1072, p. 189). City of Oakland's well 2. About 0.6 mile north and 5° west of Oakland. Water levels, in feet below land-surface datum, 1947: Feb. 20, 28.16; Apr. 23, 19.61.

Harford County

Har-Bb 1 (*1072, p. 189). Karl C. Ascherfeld. At Jarrettsville, 0.25 mile west of intersection of Routes 23 and 165.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|
| Feb. 17 | a 35.52 | Apr. 12 | 34.56 | Sept. 10 | a 34.28 |
| Mar. 15 | 35.69 | May 31 | 34.49 | Dec. 2 | 34.55 |

a Pumping.

Har-Cc 8 (*1072, p. 189). Maryland Water Works Co.'s well Bynum 2. About 500 feet south and 68° west of crossroads at Bynum.

Water level, in feet below land-surface datum, 1947

| | | | | | |
|---------|------|---------|--------|----------|------|
| Feb. 17 | 7.84 | Apr. 12 | a 7.69 | Sept. 10 | 8.57 |
| Mar. 15 | 5.91 | May 31 | 6.27 | Dec. 2 | 7.11 |

a Pumping.

Howard County

How-Bd 1 (*1072, p. 190). S. D. Slack. At Slack's Corner, 1.2 miles north and 12° east of intersection of Routes 40 and 32.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 10 | 42.53 | Apr. 12 | 45.47 | July 14 | 42.60 | Oct. 6 | 44.64 |
| Mar. 15 | 45.10 | May 6 | 43.22 | Aug. 11 | 43.19 | Nov. 18 | 44.99 |
| Apr. 9 | 43.02 | 31 | 43.86 | Sept. 12 | 43.30 | | |

How-Bd 2. Street. On east side of Route 32, 0.85 mile northeast of West Friendship. Measured depth 28.84 feet. Measuring point, west end of box on crosspiece, 4.77 feet above land surface. Water level, in feet below land-surface datum, 1947: Feb. 18, 19.62.

How-Bf 1 (*1072, p. 190). Maryland Water Works Co.'s well Old 1. About 1.0 mile north and 26° west of Ellicott City.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|
| Feb. 18 | 4.29 | Apr. 12 | 4.14 | Sept. 10 | 7.29 |
| Mar. 15 | a 12.10 | May 31 | a 14.05 | | |

a Pumping.

Kent County

Ken-Dc 1. Catherine Overbeck. On west shore of Chester River, 0.7 mile northeast of Deep Point. Drilled domestic well, diameter 6 inches, depth 87 feet. Measuring point, top of casing, at land surface.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|-------|-------------|---------|-------------|
| Apr. 19 | a 9.38 | Apr. 20 | 9.45 | May 4 | 8.90 | June 14 | 9.84 |
| 19 | 9.15 | May 2 | 8.79 | 17 | 9.49 | 15 | 8.97 |
| 19 | b 9.55 | 3 | 8.45 | 18 | 9.34 | 22 | 8.46 |
| 20 | 9.50 | 3 | 9.13 | | | | |

a After normal pumping.

b After pumping about 100 gals.

Montgomery County

Mont-Ef 9 (*1072, p. 190). City of Rockville. At Rockville, 0.65 mile west of intersection of Baltimore & Ohio Railroad and Route 586.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|
| Feb. 18 | 30.54 | Apr. 12 | 21.54 | Sept. 10 | 31.13 |
| Mar. 15 | 22.19 | May 31 | 36.67 | | |

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; 1072, p. 190). Walter M. Brown. 1.5 miles southwest of Colesville.

Mean daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | ..... | 15.36 | 15.85 | 15.52 | 15.63 | 15.11 | 15.65 | 16.34 | 16.66 | 16.46 | ..... | 15.60 |
| 2 | 16.46 | 15.37 | 15.83 | 15.50 | 15.61 | 15.14 | 15.69 | 16.38 | 16.62 | 16.48 | ..... | 15.59 |
| 3 | 15.99 | 15.38 | 15.84 | 15.52 | 15.60 | ..... | 15.73 | 16.41 | 16.64 | 16.51 | ..... | 15.59 |
| 4 | 15.83 | 15.33 | 15.89 | 15.56 | 15.54 | ..... | 15.77 | 16.43 | 16.66 | 16.53 | ..... | 15.58 |
| 5 | 15.91 | 15.32 | 15.89 | 15.56 | 15.51 | ..... | 15.81 | 16.47 | 16.66 | 16.55 | ..... | 15.56 |
| 6 | 15.95 | 15.33 | 15.81 | 15.55 | 15.50 | ..... | 15.84 | 16.50 | 16.60 | 16.58 | ..... | 15.55 |
| 7 | 15.95 | 15.34 | 15.73 | 15.59 | 15.50 | ..... | 15.88 | 16.53 | 16.40 | 16.61 | ..... | 15.55 |
| 8 | 15.90 | 15.37 | 15.73 | 15.53 | 15.51 | ..... | 15.89 | 16.56 | 16.36 | 16.62 | ..... | 15.50 |
| 9 | 15.92 | 15.39 | 15.72 | 15.62 | 15.53 | ..... | 15.93 | 16.58 | 16.35 | 16.65 | ..... | 15.52 |
| 10 | 15.95 | 15.43 | 15.72 | 15.66 | 15.54 | ..... | 15.97 | 16.58 | 16.34 | 16.68 | ..... | 15.51 |
| 11 | 15.95 | 15.48 | 15.71 | 15.65 | 15.56 | ..... | 16.01 | 16.62 | 16.32 | 16.70 | ..... | 15.45 |

Mont-Pf 1-Continued.

Mean daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 12 | 15.95 | 15.51 | 15.69 | 15.66 | 15.56 | ..... | 16.00 | 16.64 | 16.31 | 16.72 | ..... | 15.45 |
| 13 | 15.98 | 15.52 | 15.65 | 15.71 | 15.55 | ..... | 15.91 | 16.65 | 16.31 | 16.73 | ..... | 15.42 |
| 14 | 15.95 | 15.52 | 15.54 | 15.70 | 15.57 | ..... | 15.95 | 16.67 | 16.31 | 16.74 | ..... | 15.38 |
| 15 | 15.91 | 15.52 | 15.49 | 15.70 | 15.62 | ..... | 15.99 | 16.69 | 16.32 | 16.76 | ..... | 15.31 |
| 16 | 15.84 | 15.54 | 15.44 | 15.66 | 15.64 | ..... | 16.02 | 16.71 | 16.35 | 16.79 | ..... | 15.00 |
| 17 | 15.86 | 15.59 | 15.41 | 15.64 | 15.66 | ..... | 16.05 | 16.69 | 16.39 | 16.79 | ..... | 15.03 |
| 18 | 15.87 | 15.61 | 15.41 | 15.66 | 15.54 | ..... | 16.07 | 16.72 | 16.41 | 16.80 | ..... | 14.98 |
| 19 | 15.87 | 15.66 | 15.41 | 15.67 | 15.48 | ..... | 16.03 | 16.73 | 16.41 | 16.80 | ..... | 14.95 |
| 20 | 15.60 | 15.67 | 15.39 | 15.68 | 15.41 | ..... | 16.00 | 16.71 | 16.43 | 16.82 | ..... | 14.94 |
| 21 | 15.47 | 15.66 | 15.38 | 15.70 | 15.41 | ..... | 16.04 | 16.62 | 16.46 | 16.83 | 15.53 | 14.90 |
| 22 | 15.54 | 15.68 | 15.39 | 15.74 | 15.20 | ..... | 16.05 | 16.55 | 16.46 | 16.85 | 15.53 | 14.90 |
| 23 | 15.55 | 15.71 | 15.40 | 15.75 | 15.05 | ..... | 16.09 | 16.52 | 16.51 | 16.86 | 15.53 | 14.87 |
| 24 | 15.55 | 15.74 | 15.38 | 15.73 | 15.04 | ..... | 16.14 | 16.53 | 16.51 | 16.88 | 15.54 | 14.86 |
| 25 | 15.56 | 15.76 | 15.34 | 15.74 | 15.03 | ..... | 16.16 | 16.54 | 16.38 | 16.89 | 15.52 | 14.82 |
| 26 | 15.48 | 15.79 | 15.39 | 15.75 | 14.99 | ..... | 16.17 | 16.56 | 16.36 | 16.89 | 15.48 | 14.78 |
| 27 | 15.27 | 15.81 | 15.43 | 15.76 | 15.00 | ..... | 16.19 | 16.58 | 16.40 | 16.90 | 15.50 | 14.77 |
| 28 | 15.30 | 15.84 | 15.44 | 15.80 | 15.01 | ..... | 16.21 | 16.59 | 16.41 | 16.89 | 15.54 | 14.78 |
| 29 | 15.31 | | 15.45 | 15.81 | 15.01 | ..... | 16.24 | 16.61 | 16.42 | 16.87 | 15.56 | 14.84 |
| 30 | 15.31 | | 15.47 | 15.80 | 15.05 | 15.64 | 16.28 | 16.63 | 16.42 | 16.88 | 15.58 | 14.84 |
| 31 | 15.34 | | 15.51 | | 15.09 | | 16.30 | 16.63 | | 16.88 | | 14.82 |

Water level, in feet below land-surface datum, 1947

(Tide measurements)

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Jan. 2 | 16.49 | Mar. 31 | 15.52 | June 30 | 15.63 | Sept. 30 | 16.42 |
| 21 | 15.47 | May 1 | 15.61 | July 31 | 16.31 | Oct. 31 | 16.89 |
| 31 | 15.33 | June 2 | 15.13 | Sept. 2 | 16.61 | Dec. 1 | 15.60 |
| Mar. 3 | 15.83 | | | | | | |

Prince Georges County

PG-Ef 1. Fairgrounds. In Upper Marlboro, 0.5 mile southeast of the post office, near northeast corner of race track. Drilled industrial well, diameter 0.75 inch, depth 248 feet. Measuring point, top of discharge pipe, 1.20 feet above land surface. Flowing well. Water levels, in feet above land-surface datum, 1947: June 19, 3.97; June 26, 3.65.

PG-Ef 2. Wywill Esso Station. 1.4 miles east of Upper Marlboro, at junction of Routes 4 and 301. Abandoned dug well, diameter 3 feet, depth 50 feet. Measuring point, outer edge of board shelter platform, 3.00 feet above land surface. Water levels, in feet below land-surface datum, 1947: June 19, 32.51; June 26, 32.19.

St. Marys County

St.M.-Bb 2. U. S. Navy railroad. In New Market, by railroad water tank. Unused dug well, diameter 4 feet, depth 10.9 feet. Measuring point, top of concrete curb, at land surface.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|--------|------|---------|------|---------|------|---------|------|
| Mar. 6 | 4.86 | Mar. 25 | 4.64 | Apr. 21 | 4.88 | June 26 | 6.86 |
| 17 | 4.54 | Apr. 7 | 4.92 | June 12 | 6.21 | | |

St.M.-Cb 2. S. S. Mattingly. In Chaptico. Used drilled domestic well, diameter 1.5 inches. Measuring point, end of discharge pipe, 1.5 feet below land surface.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|------|---------|------|---------|------|---------|------|
| Jan. 29 | 6.93 | Mar. 17 | 9.09 | Mar. 25 | 9.37 | Apr. 21 | 9.62 |
| Mar. 5 | 8.51 | 20 | 8.78 | Apr. 7 | 9.73 | June 13 | 9.39 |

St.M.-Df 23. C. S. Piggott. On south shore of Hominy Creek, near creek mouth. Used drilled domestic well, diameter 6 inches, depth 260 feet. Measuring point, top of $\frac{3}{4}$ -inch pipe, 5.5 feet below land surface.

Water level, in feet below land-surface datum, 1946-47

| Date | Water level | Date | Water level | Date | Water level |
|---------------|-------------|---------------|-------------|--------------|-------------|
| May 1, 1946 | b 30 | Feb. 21, 1947 | 31.54 | Apr. 8, 1947 | 33.23 |
| Nov. 14 | 31.02 | Mar. 6 | 31.76 | 22 | 33.04 |
| Jan. 24, 1947 | 32.94 | 17 | 32.22 | June 13 | 32.31 |
| 31 | 32.46 | 25 | 32.19 | 24 | 32.09 |

b Reported.

St.M.-Df 24. Frank Borley. On east shore of Little Kingston Creek, 0.2 mile from creek mouth. Used drilled domestic well, diameter 1.5 inches, depth 280 feet. Measuring point, top of casing, 1.8 feet above land surface.

Water level, in feet below land-surface datum, 1946-47

| | | | | | |
|---------------|------|---------------|------|---------------|------|
| Nov. 14, 1946 | 3.85 | Mar. 25, 1947 | 3.98 | June 12, 1947 | 4.56 |
| Jan. 31, 1947 | 3.96 | Apr. 8 | 4.62 | 24 | 4.52 |
| Mar. 6 | 4.17 | 22 | 4.29 | | |
| 17 | 4.01 | | | | |

St.M.-Df 26. Thomas K. Clark. 0.8 mile east-southeast of California, 200 feet north of Route 235. Used drilled domestic well, diameter 48-36 inches, depth 58 feet. Measuring point, top of floor, at land surface.

Water level, in feet below land-surface datum, 1946-47

| | | | | | |
|---------------|-------|---------------|-------|---------------|-------|
| Nov. 14, 1946 | 53.66 | Mar. 17, 1947 | 52.93 | Apr. 22, 1947 | 52.95 |
| Jan. 31, 1947 | 53.26 | 25 | 52.98 | June 12 | 52.63 |
| Feb. 21 | 53.03 | Apr. 8 | 53.09 | 24 | 52.56 |
| Mar. 6 | 53.12 | | | | |

St.M.-Eg 3. Mrs. J. W. Elms. On shore of Chesapeake Bay, 1.2 miles northeast of St. James. Used drilled domestic well, diameter 1.5 inches, depth 339 feet. Measuring point, top of casing, 1.5 feet above land surface.

Water level, in feet below land-surface datum, 1946-47

| | | | | | |
|---------------|-------|--------------|-------|---------------|-------|
| Nov. 15, 1946 | 12.99 | Mar. 6, 1947 | 13.36 | Apr. 21, 1947 | 12.91 |
| Jan. 24, 1947 | 13.31 | 17 | 12.93 | June 12 | 13.07 |
| 31 | 12.84 | 25 | 12.80 | 26 | 13.17 |
| Feb. 21 | 12.92 | Apr. 9 | 13.10 | | |

St.M.-Pf 2. Albert Senior. On St. George Island, near Deep Point. Abandoned drilled well, diameter 1.5 inches, depth 234 feet. Measuring point, top of casing, 0.8 foot above land surface.

Water level, in feet below land-surface datum, 1947

| | | | | | |
|----------------------|------|--------|------|---------|------|
| Mar. 11 ¹ | 2.28 | Apr. 9 | 2.21 | June 13 | 1.84 |
| 19 | 2.41 | 21 | 1.59 | | |

St.M.-Fg 4. John A. Bradburn. 1.4 miles east-southeast of Ridge, on Fresh Pond Neck. Used drilled domestic well, diameter 1.5 inches, depth 420 feet. Measuring point, top of casing, 1.5 feet above land surface.

Water level, in feet below land-surface datum, 1946-47

| | | | | | |
|---------------|------|--------------|------|---------------|------|
| Nov. 19, 1946 | 8.04 | Mar. 6, 1947 | 8.54 | Apr. 21, 1947 | 8.07 |
| Jan. 24, 1947 | 8.44 | 17 | 8.09 | June 12 | 8.13 |
| 31 | 8.00 | 25 | 7.92 | 26 | 8.40 |
| Feb. 21 | 8.17 | Apr. 9 | 8.15 | | |

Washington County

Wa-Ac 1 (*1072, p. 191). Susan Creager. At Hancock, 0.6 mile east of intersection of Routes 40 and 522.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Jan. 3 | 43.50 | Apr. 22 | 53.24 | July 10 | 52.62 | Sept. 29 | 54.47 |
| Feb. 7 | 53.32 | May 2 | 51.37 | Aug. 4 | 44.56 | Dec. 2 | 53.83 |
| 19 | 53.54 | June 5 | 53.16 | Sept. 3 | 45.76 | 5 | 54.60 |
| Mar. 7 | 53.29 | | | | | | |

Wa-Be 1 (*1072, p. 191). A. L. Dayhoff. At Indian Springs, 0.15 mile west of intersection of Routes 40 and 56.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|--------|-------------|---------|-------------|
| Feb. 7 | 36.43 | Mar. 7 | 27.24 | May 2 | 25.26 | July 10 | 27.64 |
| 19 | 25.54 | Apr. 22 | 24.42 | June 5 | 27.34 | Aug. 4 | 19.52 |

Wa-Bh 3 (*1072, p. 191). Mel Sword. On Route 40, about 1.7 miles west of Hagerstown.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Feb. 7 | 19.65 | Apr. 22 | 30.73 | July 7 | 22.14 | Sept. 29 | 39.02 |
| 19 | 21.56 | May 3 | 40.10 | Aug. 4 | 23.15 | Dec. 2 | 39.08 |
| Mar. 7 | 24.77 | June 5 | 40.14 | Sept. 3 | 26.09 | 4 | 40.06 |

Wa-Dh 1 (*1072, p. 191). John Murphy. At Sharpsburg, 0.4 mile south and 59° west of intersection of Routes 34 and 65.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Feb. 3 | 31.55 | Apr. 22 | 25.23 | July 9 | 24.98 | Oct. 15 | 25.65 |
| 19 | 24.26 | 28 | 31.89 | Aug. 6 | 25.09 | Nov. 12 | 25.20 |
| Mar. 5 | 25.28 | June 11 | 25.00 | Sept. 10 | 25.40 | Dec. 9 | 25.50 |
| Apr. 1 | 25.39 | | | | | | |

Wicomico County

Wi-Bf 2. W. T. Holland. 1.5 miles south of Delmar, 0.4 mile west of U. S. Route 13. Unused drilled domestic well, diameter 2 inches, depth 85 feet. Measuring point, top of 2-inch tee coupling, 1.00 foot above land surface.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|----------|-------------|---------|-------------|---------|-------------|
| Aug. 27 | 3.75 | Sept. 19 | 4.03 | Oct. 10 | 4.07 | Nov. 7 | 4.25 |
| Sept. 5 | 3.87 | 26 | 3.97 | 24 | 4.18 | Dec. 10 | 3.72 |

Wi-Ce 13. City of Salisbury. In Salisbury, on south bank of South Prong, about 600 feet above tidewater dam. Unused drilled well, diameter 16-10 inches, depth 65 feet. Measuring point, top of 10-inch casing, 0.31 feet above land surface. Automatic water-stage recorder installed July 16.

Daily high and low water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | November | |
|-----|-------|-------|--------|-------|-----------|-------|---------|------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | ..... | ..... | 7.66 | 8.72 | 9.54 | 10.31 | 7.67 | 8.29 | 5.90 | 6.40 |
| 2 | ..... | ..... | 7.80 | 8.62 | 9.53 | 10.31 | 7.72 | 8.31 | 5.55 | 5.90 |
| 3 | ..... | ..... | 7.68 | 8.65 | 10.14 | 10.68 | 7.71 | 8.31 | 5.22 | 5.55 |
| 4 | ..... | ..... | 7.86 | 8.82 | 9.94 | 10.69 | 7.56 | 8.21 | 5.16 | 5.24 |
| 5 | ..... | ..... | 7.87 | 8.93 | 9.89 | 10.61 | 7.47 | 8.13 | 5.05 | 6.31 |
| 6 | ..... | ..... | 8.23 | 9.13 | 9.67 | 10.34 | 7.38 | 8.13 | 5.27 | 6.66 |
| 7 | ..... | ..... | 8.57 | 9.34 | 9.31 | 9.91 | 7.18 | 7.86 | 5.85 | 6.91 |
| 8 | ..... | ..... | 8.57 | 9.42 | 9.00 | 9.83 | 6.94 | 7.63 | 5.46 | 6.80 |
| 9 | ..... | ..... | 8.76 | 9.55 | 9.09 | 9.90 | 6.79 | 7.69 | 5.25 | 5.46 |
| 10 | ..... | ..... | 8.55 | 9.35 | 9.53 | 10.20 | 7.08 | 7.80 | 5.16 | 5.25 |
| 11 | ..... | ..... | 8.30 | 9.30 | 9.48 | 10.21 | 7.09 | 7.82 | 5.02 | 5.16 |
| 12 | ..... | ..... | 8.78 | 9.58 | 9.73 | 10.36 | 7.19 | 7.82 | 5.02 | 5.04 |
| 13 | ..... | ..... | 8.97 | 9.70 | 9.51 | 10.06 | 7.24 | 7.84 | 5.01 | 5.06 |
| 14 | ..... | ..... | 9.00 | 9.76 | 9.14 | 9.97 | 7.02 | 7.75 | 5.06 | 5.07 |
| 15 | ..... | ..... | 8.89 | 9.77 | 8.84 | 9.71 | 6.99 | 7.72 | 5.03 | 5.07 |
| 16 | ..... | ..... | 9.38 | 10.00 | 9.08 | 9.85 | 7.00 | 7.73 | 5.05 | 6.13 |
| 17 | 7.27 | 8.36 | 8.93 | 9.62 | 9.00 | 9.75 | 7.04 | 7.73 | 5.13 | 5.22 |
| 18 | 7.47 | 8.18 | 8.80 | 9.61 | 8.84 | 9.68 | 7.00 | 7.72 | 5.22 | 5.26 |
| 19 | 7.14 | 7.96 | 8.75 | 9.62 | 8.82 | 9.69 | 6.87 | 7.72 | 5.26 | 5.32 |
| 20 | 7.05 | 7.92 | 8.68 | 9.98 | 8.44 | 9.31 | 6.94 | 7.63 | 5.32 | 5.38 |
| 21 | 6.80 | 7.86 | 9.30 | 10.06 | 7.99 | 8.64 | 6.89 | 7.61 | 5.38 | 5.43 |
| 22 | 6.87 | 7.90 | 9.78 | 10.30 | 8.16 | 9.15 | 6.95 | 7.64 | 5.41 | 5.43 |
| 23 | 6.93 | 7.92 | 9.56 | 10.27 | 8.25 | 9.16 | 6.97 | 7.65 | 5.37 | 5.43 |
| 24 | 6.93 | 7.92 | 9.60 | 10.30 | 8.22 | 9.08 | 6.93 | 7.67 | 5.24 | 5.39 |
| 25 | 6.97 | 7.97 | 9.33 | 10.15 | 7.96 | 8.75 | 6.91 | 7.60 | 5.36 | 5.42 |
| 26 | 7.24 | 8.09 | 10.07 | 10.48 | 7.76 | 8.72 | 6.78 | 7.59 | 5.09 | 5.36 |
| 27 | 7.11 | 7.97 | 10.09 | 10.60 | 7.58 | 8.61 | 6.72 | 7.50 | 5.07 | 5.09 |
| 28 | 6.99 | 7.92 | 10.11 | 10.61 | 7.51 | 8.08 | 6.79 | 7.51 | 5.02 | ..... |
| 29 | 7.17 | 8.08 | 10.14 | 10.71 | 7.42 | 8.05 | 6.85 | 7.53 | ..... | ..... |
| 30 | 7.16 | 8.26 | 10.05 | 10.72 | 7.50 | 8.26 | 6.72 | 7.44 | ..... | ..... |
| 31 | 7.44 | 8.57 | 9.71 | 10.25 | ..... | ..... | 6.30 | 7.23 | ..... | ..... |

Wi-Ce 16. City of Salisbury. In Salisbury, on north bank of South Prong, about 50 feet west of city line. Unused drilled well, diameter 4 inches, depth 60 feet. Measuring point, top of casing, 0.40 foot above land surface. Automatic water-stage recorder installed Nov. 7.

Daily high and low water level, in feet below land-surface datum, 1947
(From recorder charts)

| Date | High | Low | Date | High | Low | Date | High | Low |
|--------|-------|-------|---------|-------|-------|--------|------|------|
| Nov. 8 | 4.50 | 4.62 | Nov. 17 | 6.90 | 7.10 | Dec. 2 | 6.20 | 7.24 |
| 9 | 4.62 | 4.88 | 18 | 7.10 | 7.24 | 20 | 3.37 | 3.55 |
| 10 | 4.88 | 5.05 | 19 | 7.24 | 7.40 | 21 | 3.30 | 3.37 |
| 11 | 5.01 | 5.12 | 20 | 7.40 | ..... | 22 | 3.25 | 3.30 |
| 12 | 4.99 | 5.65 | 21 | ..... | 7.63 | 23 | 3.19 | 3.25 |
| 13 | 5.65 | ..... | 22 | 7.63 | 7.74 | 24 | 3.17 | 3.19 |
| 14 | ..... | 6.44 | 23 | 7.74 | 7.77 | 25 | 2.93 | 3.17 |
| 15 | 6.44 | 6.70 | 24 | 7.77 | 7.82 | 26 | 2.74 | 2.93 |
| 16 | 6.70 | 6.90 | 25 | 7.82 | ..... |  |  |  |

W1-Ce 17. City of Salisbury. About 100 feet east of city line and about 200 feet south of the south bank of South Prong. Unused drilled well, diameter 4 inches, depth 63 feet. Measuring point, top of casing, 0-40 foot above land surface. Water level, in feet below land-surface datum, 1947: July 23, 2.89. Automatic water-stage recorder installed Aug. 5.

Daily high and low water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | August | | September | | October | | November | | December | |
|-----|--------|------|-----------|------|---------|------|----------|------|----------|------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | .... | .... | 5.50 | 5.96 | 4.46 | 4.90 | .... | .... | 6.78 | 6.81 |
| 2 | .... | .... | 5.42 | 5.67 | 4.73 | 4.95 | .... | .... | 6.49 | 6.83 |
| 3 | .... | .... | 5.42 | 5.77 | 4.81 | 5.08 | .... | .... | .... | 6.49 |
| 4 | .... | .... | 5.77 | 6.07 | 4.85 | 5.17 | .... | .... | .... | .... |
| 5 | .... | .... | 5.92 | 6.10 | 4.63 | 5.17 | .... | .... | .... | .... |
| 6 | 5.06 | 5.42 | 5.91 | 6.01 | 4.58 | 5.16 | .... | .... | .... | .... |
| 7 | 5.19 | 5.49 | 5.63 | 6.02 | 4.89 | 5.08 | .... | .... | .... | .... |
| 8 | 5.36 | 6.04 | 5.33 | 5.69 | .... | .... | 3.73 | 3.90 | .... | .... |
| 9 | 5.50 | 5.72 | 5.20 | 5.41 | .... | .... | 3.73 | 3.83 | .... | .... |
| 10 | 5.45 | 5.75 | .... | .... | 4.02 | 4.07 | 3.83 | 3.91 | 3.33 | 3.51 |
| 11 | 5.72 | 5.89 | .... | .... | .... | .... | 3.68 | 3.93 | 3.24 | 3.33 |
| 12 | 5.86 | 6.03 | .... | .... | .... | .... | 3.64 | 4.50 | 3.18 | 3.24 |
| 13 | 6.01 | 6.11 | .... | .... | .... | .... | 4.50 | 5.12 | .... | .... |
| 14 | 6.00 | 6.18 | .... | .... | .... | .... | 5.12 | 5.40 | .... | .... |
| 15 | 6.07 | 6.19 | .... | .... | .... | .... | 5.40 | 5.62 | .... | .... |
| 16 | .... | .... | 5.52 | 5.80 | .... | .... | 5.62 | 5.79 | .... | .... |
| 17 | .... | .... | 5.47 | 5.80 | 3.70 | 3.95 | 5.79 | 5.98 | 3.52 | 4.17 |
| 18 | .... | .... | 5.57 | 5.82 | .... | .... | 5.98 | 6.13 | 3.88 | 4.17 |
| 19 | 5.61 | 5.78 | 5.44 | 5.82 | .... | .... | 6.13 | 6.24 | 4.16 | 4.16 |
| 20 | 5.57 | 5.83 | 5.50 | 5.81 | .... | .... | 6.24 | 6.36 | 4.16 | 4.18 |
| 21 | .... | .... | 5.87 | 5.96 | .... | .... | 6.36 | 6.46 | 3.37 | 4.18 |
| 22 | .... | 5.69 | 5.35 | 5.67 | 3.75 | 4.06 | 6.46 | 6.54 | 2.90 | 3.37 |
| 23 | 5.68 | 5.87 | 5.10 | 5.35 | .... | .... | 6.54 | 6.55 | 2.75 | 2.90 |
| 24 | 5.53 | 5.81 | 4.92 | 5.23 | .... | .... | 6.54 | 6.58 | .... | .... |
| 25 | 5.81 | 6.03 | .... | .... | 3.57 | 4.04 | 6.58 | 6.62 | .... | .... |
| 26 | 5.80 | 6.06 | 4.47 | 4.62 | 3.52 | 4.18 | 6.62 | 6.66 | .... | .... |
| 27 | 5.69 | 6.06 | 4.37 | 4.76 | 3.72 | 4.25 | 6.66 | 6.69 | .... | .... |
| 28 | 5.63 | 5.69 | 4.20 | 4.62 | 3.69 | 4.27 | 6.69 | 6.72 | .... | .... |
| 29 | 5.58 | 5.76 | 4.16 | 4.67 | 3.78 | 4.16 | 6.72 | 6.75 | .... | .... |
| 30 | 5.59 | 5.86 | 4.18 | 4.67 | .... | .... | 6.75 | 6.78 | .... | .... |
| 31 | 5.85 | 5.95 | .... | .... | .... | .... | .... | .... | .... | .... |

W1-Ce 21. State Game Farm. 0.4 mile north of Salisbury, on east bank of Coty Cox Branch. Used drilled well, diameter 2½ inches, depth 137 feet. Measuring point, top of 2½-inch discharge pipe, 1.50 feet below land surface.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|----------|-------------|---------|-------------|
| Aug. 28 | 5.39 | Sept. 19 | 6.10 | Oct. 24 | 5.84 |
| Sept. 3 | 6.40 | 27 | 6.10 | Nov. 7 | 5.91 |

W1-Ce 24. Lowe Bros. 1.9 miles north of Salisbury, on east side of U. S. Route 213. Unused driven domestic well, diameter 1½ inches, depth 44 feet. Measuring point, top of 1½ to 1¼-inch reducing coupling, 0.60 foot above land surface.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|----------|-------------|---------|-------------|
| Sept. 5 | 9.61 | Sept. 26 | 9.82 | Nov. 7 | 10.66 |
| 19 | 9.91 | Oct. 10 | 10.15 | Dec. 11 | 10.53 |

Wi-Cf 1. City of Salisbury. About 400 feet east of city line, on north bank of South Prong. Unused drilled well, diameter 4 inches, depth 60 feet. Measuring point, top of casing, at land surface. Automatic water-stage recorder installed Nov. 6.

Daily high and low water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | High | Low | Day | High | Low | Day | High | Low |
|--------|------|------|---------|------|------|---------|------|------|
| Nov. 7 | 1.44 | 1.50 | Nov. 13 | 1.37 | 1.53 | Nov. 19 | 1.87 | 1.92 |
| 8 | 1.23 | 1.44 | 14 | 1.53 | 1.62 | 20 | 1.92 | 1.97 |
| 9 | 1.24 | 1.35 | 15 | 1.62 | 1.68 | 21 | 1.97 | 2.00 |
| 10 | 1.35 | 1.41 | 16 | 1.68 | 1.75 | 22 | 2.00 | 2.04 |
| 11 | 1.27 | 1.42 | 17 | 1.75 | 1.81 | 23 | 1.93 | 2.04 |
| 12 | 1.26 | 1.37 | 18 | 1.81 | 1.87 | 24 | 1.93 | 1.99 |

Wi-Cf 2. City of Salisbury. About 1,200 feet east of city line, on north bank of South Prong. Unused drilled well, diameter 4 inches, depth 66 feet. Measuring point, top of casing, 0.40 foot above land surface. Water level, in feet below land-surface datum, 1947: July 23, 2.42. Automatic water-stage recorder installed Aug. 6.

Daily high and low water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | August | | September | | October | | November | |
|-----|--------|------|-----------|------|---------|------|----------|------|
| | High | Low | High | Low | High | Low | High | Low |
| 1 | .... | .... | 2.25 | 2.53 | 2.87 | 3.16 | 2.26 | 2.26 |
| 2 | .... | .... | 2.21 | 2.25 | 3.16 | 3.28 | 2.25 | 2.26 |
| 3 | .... | .... | 2.25 | 2.38 | 3.28 | 3.37 | 2.09 | 2.25 |
| 4 | .... | .... | 2.38 | 2.64 | 3.37 | 3.39 | 2.09 | 2.15 |
| 5 | .... | .... | 2.64 | 2.81 | 3.16 | 3.58 | 2.18 | 2.15 |
| 6 | .... | .... | 2.77 | 2.83 | 2.99 | 3.16 | .... | .... |
| 7 | 3.17 | 3.19 | 2.40 | 2.78 | 2.94 | 2.99 | .... | .... |
| 8 | 3.14 | 3.17 | 2.25 | 2.40 | 2.10 | 2.94 | .... | .... |
| 9 | .... | .... | 2.28 | 2.39 | 2.10 | 2.17 | .... | .... |
| 10 | .... | .... | .... | .... | 2.17 | 2.20 | .... | .... |
| 11 | .... | .... | .... | .... | 2.20 | 2.20 | .... | .... |
| 12 | .... | .... | .... | .... | 2.20 | 2.22 | .... | .... |
| 13 | .... | .... | .... | .... | 2.22 | 2.26 | .... | .... |
| 14 | 3.11 | 3.15 | .... | .... | 2.26 | 2.34 | .... | .... |
| 15 | .... | .... | .... | .... | 2.32 | 2.34 | .... | .... |
| 16 | .... | .... | 3.04 | 3.13 | 2.28 | 2.32 | .... | .... |
| 17 | .... | .... | 3.12 | 3.13 | 2.23 | 2.28 | .... | .... |
| 18 | .... | .... | 3.09 | 3.12 | 2.22 | 2.23 | .... | .... |
| 19 | .... | .... | 3.07 | 3.10 | 2.22 | 2.22 | .... | .... |
| 20 | .... | .... | 3.06 | 3.10 | 2.22 | 2.24 | .... | .... |
| 21 | 2.21 | 2.34 | 3.05 | 3.08 | 2.24 | 2.26 | .... | .... |
| 22 | 2.28 | 2.36 | 2.50 | 3.10 | 2.26 | 2.26 | .... | .... |
| 23 | 2.36 | 2.54 | 2.35 | 2.50 | 2.26 | 2.28 | .... | .... |
| 24 | 2.54 | 2.62 | 2.34 | 2.47 | 2.28 | 2.29 | .... | .... |
| 25 | 2.62 | 2.75 | 2.02 | 2.34 | 2.27 | 2.29 | .... | .... |
| 26 | 2.75 | 2.85 | 2.05 | 2.16 | 2.26 | 2.27 | .... | .... |
| 27 | 2.03 | 2.82 | 2.16 | 2.22 | 2.25 | 2.26 | .... | .... |
| 28 | 2.07 | 2.17 | 2.22 | 2.25 | 2.25 | 2.26 | .... | .... |
| 29 | 2.17 | 2.24 | 2.25 | 2.32 | 2.24 | 2.26 | .... | .... |
| 30 | 2.24 | 2.37 | 2.32 | 2.87 | 2.23 | 2.24 | .... | .... |
| 31 | 2.37 | 2.54 | .... | .... | 2.24 | 2.26 | .... | .... |

W1-Cf 3. Salisbury Airport. 3.7 miles east of Salisbury and 0.7 mile south of Route 350. Unused drilled well, diameter 16 inches, depth 109 feet. Measuring point, drilled hole in 10-inch cap, 1.90 feet above land surface.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|----------|----------------|---------|----------------|---------|----------------|
| Sept. 18 | 13.44 | Oct. 22 | 8.19 | Dec. 10 | 7.47 |
| Oct. 10 | 7.71 | Nov. 7 | 8.48 | | |

MISSISSIPPI

By C. R. Follett

PROGRAM OF WORK

The observation-well program in Mississippi has been in operation since 1938 in cooperation with the Mississippi State Geological Survey. During 1947 water-level measurements were made in 46 wells in 19 counties.

Nine wells were equipped with recorders--four with float-type water-stage recorders, and five with pressure-type water-stage recorders. The other 35 wells were measured with a steel tape at varying intervals of time from weekly to yearly.

FLUCTUATIONS OF WATER LEVEL

Of 33 observation wells, for which comparable measurements are available, the water levels in 9 wells rose from 0.3 foot to 7.0 feet from July 1946 to July 1947; the water levels in 24 wells declined from 0.2 foot to 8.6 feet for the same period. The net average decline was 1.6 feet.

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; 1072, p. 192). Town of Shelby. At Shelby, in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 12, T. 24 N., R. 6 W. No measurements made in 1947.

18 (*886, p. 281; 907, p. 62; 937, p. 66; 945, p. 86; 987, p. 107; 1017, p. 294; 1024, p. 167; 1072, p. 192). Town of Gunnison. At Gunnison, in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, T. 24 N., R. 7 N. Water level, in feet above land-surface datum, 1947: July 4, 25.30.

35 (*886, p. 281; 907, p. 62; 937, p. 66; 945, p. 86; 987, p. 107; 1017, p. 294; 1024, p. 167; 1072, p. 193). Town of Beulah. At Beulah, in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 27, T. 22 N., R. 8 W. Water level, in feet above land-surface datum, 1947: July 4, 22.77.

50 (*886, p. 231; 907, p. 62; 937, p. 66; 945, p. 86; 987, p. 107; 1017, p. 294; 1024, p. 167; 1072, p. 193). Jones Bayou Gin Association. At O'Reilly, 2.5 miles south of Boyle, in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 17, T. 21 N., R. 5 W. Water level, in feet above land-surface datum, 1947: July 4, 11.90.

Coahoma County

11 (*907, p. 62; 937, p. 66; 945, p. 86; 987, p. 107; 1017, p. 294; 1024, p. 167; 1072, p. 193). Norfleet & Wilsford. At Roseacres, 4.5 miles southeast of Lula, in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 7, T. 29 N., R. 2 W. Water level, in feet above land-surface datum, 1947: July 3, 31.80.

32 (*907, p. 62; 937, p. 66; 945, p. 86; 987, p. 107; 1017, p. 294; 1024, p. 167; 1072, p. 193). Coahoma County Agricultural High School. 4 miles north of Clarksdale, in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 36, T. 28 N., R. 4 W. Water level, in feet above land-surface datum, 1947: July 3, 36.49.

Forrest County

30 (*907, p. 62; 937, p. 67; 945, p. 86; 987, p. 107; 1017, p. 294; 1024, p. 168; 1072, p. 193). City of Hattiesburg. At Hattiesburg, in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, T. 4 N., R. 13 W.

Highest daily water level, in feet above land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1 | 4.92 | 5.12 | 4.95 | 5.57 | 5.70 | 5.62 | 5.69 | 6.28 | 5.36 | 5.50 | 4.94 | 4.78 |
| 2 | 5.10 | 5.03 | 4.96 | 5.55 | 5.75 | 5.64 | 5.64 | 6.34 | 5.34 | 5.46 | 4.95 | 4.78 |
| 3 | 5.08 | 5.24 | 4.98 | 5.55 | 5.70 | 5.64 | 5.61 | 6.49 | 5.27 | 5.45 | 4.95 | 4.78 |
| 4 | 4.99 | 5.24 | 4.99 | 5.54 | 5.70 | 5.64 | 5.60 | 6.52 | 5.22 | 5.43 | 4.95 | 4.79 |
| 5 | 4.89 | 5.15 | 5.12 | 5.48 | 5.68 | 5.66 | 5.59 | 6.25 | 5.22 | 5.43 | 4.94 | 4.81 |
| 6 | 4.95 | 5.23 | 5.29 | 5.42 | 5.63 | 5.70 | 5.57 | 5.90 | 5.21 | 5.48 | 4.91 | 4.83 |
| 7 | 5.02 | 5.19 | 5.43 | 5.52 | 5.66 | 5.70 | 5.65 | 5.69 | 5.21 | 5.50 | 5.05 | 4.84 |
| 8 | 5.03 | 5.00 | 5.37 | 5.57 | 5.65 | 5.74 | 5.63 | 5.55 | 5.18 | 5.49 | 5.02 | 4.91 |
| 9 | 4.99 | 4.93 | 5.27 | 5.60 | 5.60 | 5.74 | 5.59 | 5.53 | 5.17 | 5.50 | 4.94 | 5.16 |
| 10 | 5.02 | 4.85 | 5.16 | 5.62 | 5.59 | 5.73 | 5.54 | 5.53 | 5.11 | 5.50 | 4.94 | 5.31 |
| 11 | 5.07 | 4.81 | 5.15 | 5.77 | 5.62 | 5.70 | 5.50 | 5.53 | 5.13 | 5.46 | 4.97 | 5.26 |
| 12 | 4.99 | 4.80 | 5.21 | 5.86 | 5.62 | 5.56 | 5.46 | 5.56 | 5.17 | 5.40 | 4.95 | 5.16 |
| 13 | 5.22 | 4.80 | 5.33 | 5.97 | 5.62 | 5.57 | 5.48 | 5.54 | 5.19 | 5.32 | 4.90 | 5.01 |
| 14 | 5.27 | 4.75 | 5.38 | 5.98 | 5.63 | 5.51 | 5.49 | 5.53 | 5.18 | 5.27 | 4.96 | 5.03 |
| 15 | 5.28 | 4.76 | 5.39 | 5.98 | .... | 5.65 | 5.48 | 5.50 | 5.23 | 5.22 | 4.98 | 5.13 |
| 16 | 5.24 | 4.81 | 5.39 | 5.91 | 5.56 | 5.69 | 5.46 | 5.47 | 5.26 | 5.18 | 4.98 | 5.12 |
| 17 | 5.29 | 4.81 | 5.35 | 5.77 | 5.54 | 5.66 | 5.39 | 5.45 | 5.26 | 5.12 | 4.98 | 5.08 |
| 18 | 5.36 | 4.81 | 5.25 | 5.69 | 5.55 | 5.60 | 5.33 | 5.44 | 5.26 | 5.04 | 4.98 | 5.02 |
| 19 | 5.69 | 4.92 | 5.23 | 5.66 | 5.60 | 5.58 | 5.24 | 5.48 | 5.54 | 4.99 | 4.98 | 4.97 |
| 20 | 5.85 | 4.96 | 5.18 | 5.78 | 5.61 | 5.54 | 5.29 | 5.49 | 5.70 | 5.00 | 4.93 | 4.94 |
| 21 | 6.14 | 4.97 | 5.11 | 5.87 | 5.70 | 5.52 | 5.54 | 5.48 | 5.70 | 5.01 | 4.93 | 4.93 |
| 22 | 6.19 | 4.93 | 5.08 | 5.87 | 5.70 | 5.57 | 5.86 | 5.46 | 5.70 | .... | 4.92 | 4.94 |
| 23 | 6.08 | 4.95 | 5.22 | 5.85 | 5.66 | 5.58 | 6.01 | 5.46 | 5.69 | .... | 4.96 | 4.93 |
| 24 | 5.75 | 4.94 | 5.27 | 5.82 | 5.78 | 5.64 | 6.11 | 5.48 | 5.64 | 4.98 | 5.00 | 4.91 |
| 25 | 5.50 | 4.82 | 5.20 | 5.82 | 5.91 | 5.69 | 6.15 | 5.48 | 5.58 | 4.94 | 4.98 | 4.92 |
| 26 | 5.36 | 4.94 | 5.23 | 5.76 | 5.91 | 5.69 | 6.20 | 5.20 | 5.52 | 4.91 | 4.93 | 5.03 |
| 27 | 5.29 | 4.85 | 5.28 | 5.77 | 5.73 | 5.72 | 6.29 | 5.40 | 5.50 | 4.91 | 4.89 | 5.09 |
| 28 | 5.19 | 4.95 | 5.18 | 5.80 | 5.63 | 5.72 | 6.34 | 5.36 | 5.48 | 4.91 | 4.78 | 5.16 |
| 29 | 5.23 | .... | 5.10 | 5.79 | 5.59 | 5.72 | 6.31 | 5.34 | 5.51 | 4.88 | 4.76 | 5.21 |
| 30 | 5.21 | .... | 5.23 | 5.74 | 5.59 | 5.73 | 6.27 | 5.32 | 5.52 | 4.88 | 4.76 | 5.21 |
| 31 | 5.15 | .... | 5.28 | .... | 5.62 | .... | 6.24 | 5.36 | .... | 4.93 | .... | 5.19 |

50 (*907, p. 63; 937, p. 68; 945, p. 87; 987, p. 108; 1017, p. 295; 1024, p. 168; 1072, p. 194). Dixie Tung Empire Corporation. At Dixie station, 3 miles south of Brooklyn, 20 miles south of Hattiesburg, in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 28, T. 1 N., R. 12 W. Water levels, in feet below land-surface datum, 1947: July 5, 41.19; Oct. 17, 43.14.

A16 (*1024, p. 168; 1072, p. 194). United States Army. At Camp Shelby, 8 miles south of Hattiesburg, in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 27, T. 3 N., R. 12 N. No measurements made in 1947.

Grenada County

12 (*886, p. 281; 907, p. 63; 937, p. 68; 945, p. 87; 987, p. 108; 1017, p. 295; 1024, p. 169; 1072, p. 194). Holcomb school. At Holcomb, in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 15, T. 22 N., R. 3 E. Water levels, in feet above land-surface datum, 1947: July 6, 29.35; Oct. 18, 25.55.

16 (*886, p. 281; 907, p. 63; 937, p. 68; 945, p. 87; 987, p. 109; 1017, p. 295; 1024, p. 169; 1072, p. 194). Town of Holcomb. At Holcomb, in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 22, T. 22 N., R. 3 E. No measurements made in 1947.

72 (*1024, p. 170; 1072, p. 195). Lynn Thomas. At Elliott, 7 miles southeast of Grenada, in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 14, T. 21 N., R. 5 E.

72--Continued.

Highest daily water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 19.34 | 19.62 | 21.62 | 22.82 | 24.80 | 25.17 | 25.15 | ..... | 27.49 | 27.93 | 28.63 |
| 2 | 19.17 | 19.63 | 21.62 | 22.82 | 24.80 | 25.17 | 25.15 | 26.45 | 27.49 | 27.93 | 28.63 |
| 3 | 19.17 | 19.30 | 21.57 | 22.82 | 24.80 | 25.17 | 25.15 | 25.45 | 27.49 | 27.93 | 28.51 |
| 4 | 19.39 | 19.30 | 21.34 | 22.82 | 24.80 | 25.17 | 25.15 | 26.43 | 27.49 | 27.91 | 28.51 |
| 5 | 19.48 | 19.34 | 21.39 | 22.82 | 24.80 | 25.17 | 25.15 | 25.43 | 27.49 | 27.91 | 28.51 |
| 6 | 19.36 | 19.47 | 21.57 | 22.82 | 24.80 | 25.17 | 25.15 | 26.43 | 27.51 | 27.91 | 28.51 |
| 7 | 19.36 | 19.53 | 21.77 | 22.82 | 24.80 | 25.17 | 25.15 | 26.43 | 27.51 | 27.91 | 28.51 |
| 8 | 19.49 | 19.58 | 21.76 | 22.52 | 24.82 | 25.17 | 25.15 | 26.50 | 27.51 | 27.91 | 28.51 |
| 9 | 19.59 | 19.76 | 23.02 | 22.43 | 24.83 | 25.17 | 25.15 | 26.49 | 27.51 | 27.90 | 28.55 |
| 10 | 20.12 | 19.73 | 23.13 | 22.37 | 24.85 | 25.17 | 25.15 | 26.49 | 27.51 | 27.90 | 28.55 |
| 11 | 19.33 | 19.73 | 23.16 | 21.98 | 24.86 | 25.17 | 25.86 | 26.49 | 27.64 | 27.90 | 28.55 |
| 12 | 19.34 | 19.93 | 23.12 | 22.15 | 24.87 | 25.17 | 26.06 | 26.50 | 27.87 | 28.20 | 28.55 |
| 13 | 19.31 | 20.37 | 22.95 | 22.39 | 24.87 | 25.17 | 26.36 | 26.51 | 27.95 | 28.20 | 28.67 |
| 14 | 19.30 | 20.72 | 22.88 | 22.55 | 24.87 | 25.17 | 26.45 | 26.51 | 27.95 | 28.20 | 28.67 |
| 15 | 19.30 | 21.21 | 22.83 | 22.81 | 24.97 | ..... | 26.45 | 26.51 | 27.95 | 28.20 | 28.68 |
| 16 | 19.36 | 21.21 | 22.78 | 22.85 | 25.06 | ..... | 26.45 | 26.51 | 27.95 | 28.24 | 28.68 |
| 17 | 19.43 | 21.30 | 22.78 | 23.01 | 25.08 | ..... | 26.45 | 26.51 | 27.95 | 28.24 | 28.68 |
| 18 | 19.43 | 21.42 | 22.78 | 23.18 | 25.09 | ..... | 26.45 | 26.51 | 27.94 | 28.28 | 28.88 |
| 19 | 19.54 | 21.39 | 22.78 | 23.18 | 25.09 | ..... | 26.45 | 26.51 | 27.93 | 28.29 | 29.02 |
| 20 | 19.46 | 21.38 | 22.78 | 23.90 | 25.09 | ..... | ..... | 26.51 | 27.93 | 28.30 | 29.09 |
| 21 | 19.46 | 21.56 | 22.87 | 23.90 | 25.09 | 25.19 | ..... | 26.51 | 27.93 | 28.30 | 29.10 |
| 22 | 19.51 | 21.67 | 22.85 | 23.90 | 25.09 | 25.11 | ..... | 26.51 | 27.93 | 28.30 | 29.28 |
| 23 | 19.47 | 21.75 | 22.82 | 24.21 | 25.09 | 25.12 | ..... | 26.51 | 27.93 | 28.61 | 29.35 |
| 24 | 19.43 | 21.43 | 22.64 | 24.33 | 25.09 | 25.12 | ..... | 26.51 | 27.93 | 28.64 | 29.35 |
| 25 | 19.41 | 21.34 | 22.70 | 24.73 | 25.09 | 25.12 | ..... | 26.51 | 27.93 | 28.64 | 29.35 |
| 26 | 19.36 | 21.34 | 22.74 | 24.80 | 25.17 | 25.12 | ..... | 26.54 | 27.93 | 28.64 | 29.35 |
| 27 | 19.26 | 21.44 | 22.64 | 24.80 | 25.17 | 25.12 | ..... | 26.54 | 27.93 | 28.64 | 29.43 |
| 28 | 19.25 | 21.49 | 22.78 | 24.80 | 25.17 | 25.12 | ..... | 26.54 | 27.93 | 28.64 | 29.69 |
| 29 | 19.25 | ..... | 22.86 | 24.80 | 25.18 | 25.15 | ..... | 26.54 | 27.93 | 28.64 | 29.75 |
| 30 | 19.35 | ..... | 22.82 | 24.80 | 25.18 | 25.15 | ..... | 26.54 | 27.93 | 28.64 | ..... |
| 31 | 19.59 | ..... | 22.82 | ..... | 25.17 | ..... | ..... | 27.49 | ..... | 28.64 | ..... |

73 (*1024, p. 170; 1072, p. 195). Carpenter farm. At Elliott, 7 miles southeast of Grenada, in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 14, T. 21 N., R. 5 E.

Highest daily water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 19.51 | 19.07 | 17.78 | 17.73 | 18.43 | 18.52 | 18.58 | 18.74 | 18.88 |
| 2 | 19.43 | 19.14 | 17.81 | 17.73 | 18.46 | 18.52 | 18.58 | 18.74 | 18.88 |
| 3 | 19.46 | 19.00 | 17.89 | 17.69 | 18.46 | 18.52 | 18.60 | 18.75 | 18.88 |
| 4 | 19.56 | 18.97 | 17.94 | 17.69 | 18.45 | 18.52 | 18.60 | 18.78 | 18.90 |
| 5 | 19.48 | 18.98 | 17.82 | 17.67 | 18.48 | 18.52 | 18.60 | 18.79 | 18.90 |
| 6 | 19.46 | 18.80 | 17.79 | 17.67 | 18.53 | 18.52 | 18.60 | 18.79 | 18.90 |
| 7 | 19.46 | 18.80 | 17.81 | 17.73 | 18.58 | 18.52 | 18.60 | 18.79 | 18.91 |
| 8 | 19.46 | 17.96 | 17.81 | 17.79 | 18.58 | 18.52 | 18.60 | 18.79 | 18.92 |
| 9 | 19.46 | ..... | 17.87 | 17.67 | 18.63 | 18.51 | 18.60 | 18.79 | 18.93 |
| 10 | 19.46 | ..... | 17.93 | 17.62 | 18.56 | 18.51 | 18.60 | 18.79 | 18.92 |
| 11 | 19.17 | ..... | 17.96 | 17.50 | 18.57 | 18.51 | 18.60 | 18.80 | 18.92 |
| 12 | 19.19 | ..... | 17.96 | 17.58 | 18.57 | 18.51 | 18.60 | 18.83 | 18.93 |
| 13 | 19.19 | ..... | 17.68 | 17.59 | 18.57 | 18.52 | 18.61 | 18.85 | 18.92 |
| 14 | 19.19 | ..... | 17.69 | 17.53 | 18.58 | 18.54 | 18.62 | 18.85 | 18.92 |
| 15 | 19.19 | 18.92 | 17.73 | 17.42 | 18.58 | ..... | 18.62 | 18.85 | 18.92 |
| 16 | 19.19 | 18.88 | 17.76 | 17.40 | 18.57 | ..... | 18.63 | 18.85 | 18.92 |
| 17 | 19.19 | 18.88 | 17.70 | 17.41 | 18.56 | ..... | 18.63 | 18.85 | 18.92 |
| 18 | 19.27 | 18.89 | 17.72 | 17.54 | 18.56 | ..... | 18.64 | 18.86 | 18.92 |
| 19 | 18.98 | 18.86 | 17.71 | 17.57 | 18.56 | ..... | 18.64 | 18.86 | 18.96 |
| 20 | 18.96 | 18.82 | 17.71 | 17.54 | 18.41 | ..... | ..... | 18.87 | 18.96 |
| 21 | 19.00 | 18.90 | 17.71 | 17.54 | 18.33 | 18.59 | ..... | 18.87 | 18.96 |
| 22 | 19.22 | 18.99 | 17.72 | 17.53 | 18.44 | 18.59 | ..... | 18.87 | 18.97 |
| 23 | 19.12 | 18.99 | 17.59 | 17.54 | 18.54 | 18.59 | ..... | 18.87 | 18.97 |
| 24 | 18.97 | ..... | 17.57 | 17.54 | 18.52 | 18.59 | ..... | 18.87 | 18.97 |
| 25 | 18.97 | ..... | 17.59 | 17.54 | 18.52 | 18.59 | ..... | 18.89 | 18.98 |
| 26 | 18.97 | ..... | 17.73 | 18.60 | 18.55 | 18.59 | 18.74 | 18.89 | 18.98 |

73--Continued.

Highest daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 27 | 18.97 | ..... | 17.68 | 18.62 | 18.58 | 18.59 | 18.74 | 18.88 | 19.00 |
| 28 | 18.97 | ..... | 17.69 | 18.62 | 18.54 | 18.58 | 18.74 | 18.88 | ..... |
| 29 | 18.97 | | 17.73 | 18.62 | 18.54 | 18.58 | 18.74 | 18.88 | ..... |
| 30 | 18.72 | | 17.72 | 18.42 | 18.55 | 18.58 | 18.74 | 18.88 | ..... |
| 31 | 18.79 | | 17.73 | | 18.58 | | 18.74 | 18.88 | |

Harrison County

69 (*1024, p. 171; 1072, p. 196). C. F. Burkhardt. 0.6 mile west of Biloxi, in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 25, T. 7 S., R. 10 W. No measurements made in 1947.

118 (*886, p. 281; 907, p. 63; 937, p. 68; 945, p. 88; 987, p. 109; 1017, p. 296; 1024, p. 171; 1072, p. 196). City of Gulfport. At Gulfport, in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, T. 8 S., R. 11 W.

Highest daily water level, in feet above land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1 | 17.1 | 20.1 | 17.9 | 17.9 | 14.8 | 13.8 | 9.7 | .... | 11.8 | 8.4 | 12.7 | 15.7 |
| 2 | 17.6 | 17.7 | 17.9 | 17.9 | 14.9 | 13.7 | 9.7 | .... | 11.7 | 6.2 | 12.7 | 15.7 |
| 3 | 17.7 | 17.3 | 18.5 | 17.9 | 15.6 | 13.7 | 9.5 | .... | 11.9 | 5.7 | 13.5 | 15.9 |
| 4 | 17.7 | 18.0 | 18.2 | 17.4 | 15.6 | 13.0 | 9.3 | 8.9 | 11.9 | 7.3 | 13.5 | 15.7 |
| 5 | 17.7 | 18.5 | 18.6 | 16.0 | 15.7 | 14.0 | 8.2 | 9.7 | 11.9 | 6.3 | 13.4 | 15.7 |
| 6 | 17.7 | 18.5 | 18.7 | 15.7 | 14.8 | 12.9 | 8.7 | 9.5 | 11.9 | 6.9 | 13.6 | 16.0 |
| 7 | 17.7 | 18.5 | 18.9 | 15.7 | 14.8 | 13.5 | 8.7 | 10.0 | 11.7 | 6.5 | 13.9 | 16.0 |
| 8 | 16.9 | 18.3 | 18.7 | 16.0 | 14.6 | 13.2 | 6.6 | 10.5 | 11.8 | 4.7 | 13.9 | 16.7 |
| 9 | 16.7 | 18.4 | 17.8 | 16.6 | 14.3 | 13.5 | 5.2 | 10.4 | 12.0 | 4.7 | 13.7 | 15.7 |
| 10 | 16.5 | 18.3 | 18.0 | 16.7 | 14.5 | 12.5 | 5.9 | 10.6 | 11.6 | 5.7 | 13.3 | 16.1 |
| 11 | 16.6 | 18.5 | 18.5 | 16.7 | 15.2 | 11.7 | 7.5 | 10.9 | 11.5 | 6.7 | 14.2 | 16.8 |
| 12 | 17.5 | 18.8 | 18.6 | 16.6 | 15.7 | 11.9 | 6.7 | 10.9 | .... | 7.2 | 13.8 | 16.3 |
| 13 | 17.5 | 18.8 | 18.6 | 16.7 | 14.9 | 12.6 | 7.9 | 11.3 | .... | 7.7 | 13.8 | 16.2 |
| 14 | 16.7 | 16.9 | 16.4 | 17.2 | 15.3 | 13.1 | 8.3 | 11.4 | .... | 7.7 | 14.0 | 16.3 |
| 15 | 16.5 | 16.6 | 16.2 | 16.7 | 15.3 | 13.3 | 7.1 | 11.9 | 6.7 | 8.9 | 14.6 | 16.4 |
| 16 | 16.1 | 17.6 | 16.0 | 17.3 | 15.2 | 12.9 | 7.3 | 11.3 | 6.4 | 9.7 | 14.3 | 16.2 |
| 17 | 16.9 | 17.5 | 16.3 | 17.5 | 15.5 | 13.5 | 7.5 | 11.5 | 6.5 | 10.0 | 14.4 | 16.8 |
| 18 | 16.9 | 17.9 | 16.7 | 17.6 | 15.4 | 13.6 | 7.3 | 11.3 | 5.8 | 10.5 | 14.5 | 17.1 |
| 19 | 16.8 | 17.0 | 17.6 | 17.5 | 15.0 | 13.5 | 6.6 | .... | 5.9 | 11.2 | 14.5 | 17.3 |
| 20 | 16.7 | 17.5 | 18.0 | 17.6 | 14.9 | 13.5 | 7.4 | .... | 5.7 | 11.3 | 14.6 | 17.5 |
| 21 | 16.7 | 17.7 | 17.6 | 16.9 | 15.2 | 13.5 | 7.2 | .... | 5.7 | 11.2 | 14.9 | 17.7 |
| 22 | 17.4 | 17.2 | 17.7 | 16.8 | 14.9 | 13.7 | 4.7 | .... | 7.3 | 11.7 | 14.9 | 17.7 |
| 23 | 17.4 | 16.8 | 17.9 | 17.0 | 14.7 | 12.9 | 7.0 | .... | 6.5 | 11.9 | 15.3 | 17.7 |
| 24 | 16.9 | 17.5 | 17.9 | 17.2 | 14.4 | 12.7 | 6.8 | .... | 6.5 | 11.9 | 15.3 | 17.8 |
| 25 | .... | 18.3 | 18.5 | 16.6 | 15.0 | 11.9 | 6.7 | 11.9 | 6.6 | 12.1 | 15.0 | 18.0 |
| 26 | .... | 18.4 | 18.9 | 15.7 | 15.2 | 11.5 | 3.5 | 11.7 | 6.6 | 12.6 | 14.8 | 17.2 |
| 27 | 17.7 | 17.7 | 17.7 | 15.5 | 14.7 | 10.0 | 5.8 | 10.9 | 6.6 | 12.7 | 15.1 | 17.4 |
| 28 | 16.2 | 18.0 | 17.7 | 15.7 | 14.1 | 10.5 | 2.9 | 10.7 | 7.7 | 12.5 | 15.1 | 17.5 |
| 29 | 18.7 | | 17.8 | 14.8 | 14.4 | 10.6 | ... | 10.7 | 8.2 | 12.7 | 14.9 | 17.5 |
| 30 | 16.9 | | 17.7 | 14.9 | 13.8 | 10.2 | ... | 11.0 | 8.9 | 13.1 | 15.5 | 17.4 |
| 31 | 17.0 | | 17.7 | | 13.9 | | ... | 10.8 | | 13.4 | | 17.6 |

147 (*937, p. 69; 945, p. 88; *987, p. 110; 1017, p. 296; 1024, p. 172; 1072, p. 197). Gulf & Ship Island Railroad. 1.5 miles south of Saucier, 15 miles north of Gulfport, in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, T. 5 S., R. 11 W. Water levels, in feet below land-surface datum, 1947: July 5, 16.38; Oct. 17, 16.87.

Hinds County

J19 (*1024, p. 172; 1072, p. 197). Alton T. Ellick. At Jackson, in SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 24, T. 6 W., R. 1 E. No measurements made in 1947.

J21 (*1024, p. 172; 1072, p. 197). Virginia--Carolina Chemical Co. At Jackson, in NE $\frac{1}{4}$ sec. 27, T. 6 N., R. 1 E. Water levels, in feet below land-surface datum, 1947: July 5, 146.50; Oct. 17, 146.60.

J25 (*1024, p. 173; 1072, p. 197). Country Club of Jackson. At Jackson, in SE $\frac{1}{4}$ sec. 25, T. 6 N., R. 1 W.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 6 | 191.30 | May 11 | 190.40 | Aug. 1 | 192.94 | Oct. 25 | 193.92 |
| 11 | 191.06 | 31 | 191.10 | 21 | 193.17 | Nov. 4 | 193.80 |
| 25 | 190.70 | June 22 | 191.80 | 26 | 193.23 | 21 | 193.42 |
| Feb. 10 | 190.90 | July 4 | 192.21 | Sept. 10 | 193.46 | Dec. 2 | 193.41 |
| 22 | 190.60 | 10 | 192.37 | Oct. 3 | 193.76 | 9 | 193.26 |
| Mar. 16 | 190.60 | 14 | 192.42 | 10 | 193.70 | 18 | 193.16 |
| 25 | 190.20 | 22 | 192.61 | 17 | 193.95 | 30 | 192.87 |
| Apr. 19 | 190.45 | | | | | | |

J38 (*1024, p. 173; 1072, p. 197). Mississippi Cotton Oil Co. At Jackson, in NE $\frac{1}{4}$ sec. 4, T. 5 N., R. 1 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|---------|-------------|----------|-------------|
| Jan. 8 | 121.10 | Apr. 2 | 111.70 | July 16 | 124.20 | Sept. 12 | 124.05 |
| 20 | 119.80 | 10 | 114.00 | 26 | 123.30 | 23 | 124.60 |
| 29 | 112.60 | 21 | 110.80 | Aug. 6 | 124.15 | Oct. 3 | 123.90 |
| Feb. 17 | 123.40 | 30 | 116.50 | 16 | 125.50 | 14 | 124.10 |
| Mar. 11 | 121.80 | May 3 | 125.40 | 25 | 124.50 | Nov. 4 | 123.80 |
| 25 | 117.80 | 10 | 115.70 | Sept. 2 | 123.80 | | |

J46 (*1024, p. 174; 1072, p. 198). Mississippi Power & Light Co. At Jackson, in NE $\frac{1}{4}$ sec. 10, T. 5 N., R. 1 E. Water levels, in feet below land-surface datum, 1947: July 5, 122.60; Oct. 17, 117.26.

Holmes County

38 (*845, p. 162; 886, p. 282; 907, p. 63; 937, p. 63; 987, p. 110; 1017, p. 296; 1024, p. 174; 1072, p. 198). Town of Tchula. At Tchula, in NW $\frac{1}{4}$ sec. 8, T. 15 N., R. 1 E. Water levels, in feet above land-surface datum, 1947: July 4, 17.15; Oct. 18, 15.75.

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; 1072, p. 198). M. L. Smith. At Thornton, 9 miles south of Tchula, in SE $\frac{1}{4}$ sec. 8, T. 14 N., R. 1 W. Water levels, in feet above land-surface datum, 1947: July 4, 124.45; Oct. 18, 123.05.

Humphreys County

10 (*886, p. 282; 907, p. 63; 937, p. 69; 945, p. 89; 987, p. 110; 1017, p. 296; 1024, p. 174; 1072, p. 198). Wister Henry. Near north city limits of Belzoni, in NW $\frac{1}{4}$ sec. 35, T. 16 N., R. 3 W. Water levels, in feet above land-surface datum, 1947: July 4, 100.42; Oct. 18, 100.17.

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; 1072, p. 198). J. C. Halbrook. At Belzoni, in NW $\frac{1}{4}$ sec. 3, T. 15 N., R. 3 W. Water level, in feet above land-surface datum, 1947: July 4, 7.53.

56 (*886, p. 282; 907, p. 64; 937, p. 70; 945, p. 89; 987, p. 110; 1017, p. 297; 1024, p. 174; 1072, p. 198). Town of Louise. At Louise, in NE $\frac{1}{4}$ sec. 15, T. 13 N., R. 4 W. Water levels, in feet above land-surface datum, 1947: July 4, 14.25; Oct. 17, 18.35.

Jackson County

9 (*907, p. 64; 937, p. 70; 945, p. 89; 987, p. 110; 1017, p. 297; 1024, p. 175; 1072, p. 199). Camp McClellan. 6 miles north of Biloxi, in SE $\frac{1}{4}$ sec. 35; T. 6 S., R. 9 W. No measurements made in 1947.

Jones County

27 (*907, p. 65; 937, p. 71; 945, p. 90; 987, p. 110; 1017, p. 297; 1024, p. 175; 1072, p. 199). U. S. Dept. of Agriculture starch plant. At Laurel, in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 7, T. 8 N., R. 11 W. No measurements made in 1947.

30 (*907, p. 64; 937, p. 71; 945, p. 89; 987, p. 111; 1017, p. 298; 1024, p. 176; 1072, p. 199). Ed Howard. 5 miles northeast of Laurel, in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 11, T. 9 N., R. 11 W. Water level, in feet below land-surface datum, 1947: July 5, 11.09.

108 (*907, p. 65; 937, p. 72; 945, p. 90; 987, p. 112; 1017, p. 298; 1024, p. 176; 1072, p. 199). Town of Ovett. At Ovett, in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18, T. 6 N., R. 10 W. Water levels, in feet above land-surface datum, 1947: July 5, 2.63; Oct. 16, 2.35.

Lafayette County

37 (*1024, p. 176; 1072, p. 200). Dr. F. E. Linder. About 1 mile south of Oxford, in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 29, T. 8 S., R. 3 W. Water level, in feet below land-surface datum, 1947: Aug. 5, 20.35.

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; 1072, p. 200). Mrs. D. B. Jameson. At Schlater, in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 31, T. 21 N., R. 1 W. Water level, in feet above land-surface datum, 1947: July 3, 11.49.

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; 1072, p. 200). A. P. Haynes. At Greenwood, in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 12, T. 19 N., R. 1 E. Water levels, in feet above land-surface datum, 1947: July 3, 31.00; Oct. 18, 9.4.

152 (*907, p. 66; 937, p. 72; 945, p. 91; 987, p. 112; 1017, p. 298; 1024, p. 176; 1072, p. 200). City of Greenwood. At Greenwood, in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 19 N., R. 1 E.

Highest daily water level, in feet above land-surface datum, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Sept. | Oct. | Nov. |
|-----|------|------|------|------|------|------|------|-------|------|------|
| 1 | .... | 13.5 | 13.7 | 12.8 | 14.3 | 18.4 | 14.7 | .... | 11.7 | 12.2 |
| 2 | .... | 13.8 | 13.4 | 13.3 | 14.6 | 19.0 | .... | .... | 12.9 | 12.5 |
| 3 | .... | 13.5 | 12.6 | 13.3 | 14.3 | 18.7 | 15.5 | .... | 11.9 | 14.1 |
| 4 | .... | 12.7 | 12.5 | 13.4 | 15.9 | .... | 14.3 | .... | 12.8 | 12.5 |
| 5 | .... | 13.1 | 13.2 | 13.7 | 16.0 | .... | 12.5 | .... | 12.5 | 12.7 |
| 6 | .... | 14.4 | 13.4 | 14.0 | 14.5 | .... | 12.5 | .... | 13.9 | 12.8 |
| 7 | 15.2 | 14.5 | 13.3 | 13.5 | 13.5 | .... | 13.7 | .... | 13.7 | 12.8 |
| 8 | 15.5 | .... | 12.7 | 12.5 | .... | .... | 14.6 | .... | 13.7 | 12.8 |
| 9 | 15.2 | .... | 13.0 | .... | 15.6 | .... | 13.7 | .... | 12.5 | 12.8 |
| 10 | 15.1 | 15.5 | 12.5 | .... | 16.2 | .... | 12.5 | .... | 12.5 | 14.8 |
| 11 | 15.2 | 17.2 | .... | .... | 16.3 | .... | 12.5 | .... | 12.5 | 14.5 |
| 12 | 15.2 | 17.1 | .... | .... | 15.7 | 11.5 | .... | .... | 12.9 | 13.3 |
| 13 | 15.2 | .... | .... | .... | .... | 13.3 | .... | .... | 12.8 | 13.3 |
| 14 | 14.8 | 16.0 | .... | .... | 15.7 | 13.6 | .... | .... | 15.6 | 13.5 |
| 15 | 14.6 | .... | .... | 13.4 | 16.5 | .... | .... | .... | 13.1 | 13.6 |
| 16 | 14.6 | 15.0 | .... | 13.7 | 16.7 | .... | 14.5 | .... | 12.2 | 13.5 |
| 17 | 14.5 | 15.0 | .... | 14.1 | 17.1 | 12.9 | 15.3 | .... | 14.3 | 13.9 |
| 18 | 13.6 | 13.4 | .... | 14.1 | .... | 12.9 | 14.7 | .... | 13.4 | .... |
| 19 | 13.1 | 13.5 | 12.9 | 14.3 | .... | 12.3 | 11.9 | .... | 12.8 | .... |
| 20 | 13.5 | 13.3 | 13.0 | 13.8 | .... | 12.7 | 12.0 | .... | 13.1 | .... |
| 21 | 13.3 | 13.0 | 13.3 | 13.9 | .... | .... | 16.2 | .... | 14.7 | .... |
| 22 | 13.1 | 13.7 | 13.5 | .... | 17.8 | 13.0 | 15.2 | 14.1 | 15.3 | .... |
| 23 | 13.3 | 13.7 | 13.8 | .... | 16.5 | 13.8 | 13.9 | 12.5 | 13.7 | .... |
| 24 | 13.5 | 12.8 | 13.3 | 13.6 | 17.7 | 12.5 | 12.8 | 13.9 | 12.4 | .... |
| 25 | 13.7 | 13.3 | 12.7 | .... | .... | 12.5 | 12.5 | 13.9 | 13.4 | .... |
| 26 | 13.6 | 13.4 | 12.3 | 13.9 | 17.9 | 13.0 | 12.4 | 12.5 | 13.0 | .... |
| 27 | 13.4 | 13.7 | 12.9 | 14.2 | 17.0 | 13.2 | 14.9 | 14.4 | 12.2 | .... |

152--Continued.

Highest daily water level, in feet above land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Sept. | Oct. | Nov. |
|-----|------|------|------|------|------|------|------|-------|------|------|
| 28 | 12.5 | 13.7 | 12.7 | 13.8 | 17.2 | 12.7 | 13.7 | 14.5 | 12.4 | .... |
| 29 | 13.1 | | 12.9 | 14.2 | 17.5 | 13.4 | 14.1 | 15.1 | 12.8 | .... |
| 30 | 13.5 | | 13.3 | 14.3 | 17.5 | 12.7 | 15.0 | 14.2 | 12.9 | .... |
| 31 | 13.4 | | 12.9 |  | .... |  | .... |  | 13.3 | |

Oktibbeha County

2 (*907, p. 66; 945, p. 91; 987, p. 113; 1017, p. 299; 1024, p. 177; 1072, p. 201). Mississippi State College. At State College, in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 1, T. 18 N., R. 14 E.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 26 | 178.64 | Feb. 17 | 178.53 | Sept. 25 | 180.60 | Oct. 10 | 180.61 |
| Feb. 2 | 178.73 | Mar. 17 | 178.53 | Oct. 2 | 180.68 | 21 | 180.62 |
| 10 | 178.63 | Apr. 1 | 178.33 | | | | |

Quitman County

21 (*907, p. 67; 937, p. 73; 945, p. 93; 987, p. 114; 1017, p. 300; 1024, p. 178; 1072, p. 201). W. R. Harrington. 8 miles east of Clarksdale, in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, T. 27 N., R. 2 W. Water level, in feet above land-surface datum, 1947: July 3, 28.00.

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; 1072, p. 201). City Cafe. At Lambert, in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, T. 27 N., R. 1 W. Water level, in feet above land-surface datum, 1947: July 3, 5.94.

Sunflower County

39 (907, p. 67; 937, p. 73; 945, p. 93; 987, p. 115; 1017, p. 301; 1024, p. 178; 1072, p. 201). E. L. Coleman and others. At Doddsville, in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28, T. 21 N., R. 3 W. Water levels, in feet above land-surface datum, 1947: July 3, 24.82; Oct. 18, 23.20.

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; 1072, p. 201). Town of Tutwiler. At Tutwiler, in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 30, T. 25 N., R. 2 W. Water level, in feet above land-surface datum, 1947: July 3, 6.77.

68 (*907, p. 68; 937, p. 73; 945, p. 93; 987, p. 115; 1017, p. 301; 1024, p. 178; 1072, p. 202). Town of Sumner. At Sumner, in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 11, T. 24 N., R. 2 W.

Highest daily water level, in feet above land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1 | 60.5 | 56.5 | 56.5 | 56.5 | 56.5 | .... | 56.5 | .... | .... | .... | .... | 55.5 |
| 2 | 56.5 | .... | 60.5 | 56.5 | 56.5 | .... | 56.5 | 49.5 | .... | .... | .... | 55.5 |
| 3 | 65.5 | 57.0 | 84.5 | 56.5 | 56.5 | .... | 56.5 | 51.5 | .... | .... | .... | .... |
| 4 | 64.5 | 57.0 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 52.0 | .... | .... | .... | .... |
| 5 | 64.0 | 69.5 | 56.5 | 56.5 | 56.5 | 56.5 | 52.5 | .... | .... | .... | .... | .... |
| 6 | 70.0 | 57.5 | 56.5 | 56.5 | .... | 56.5 | 52.5 | .... | .... | .... | .... | .... |
| 7 | 56.5 | 57.0 | 56.5 | 56.5 | .... | 56.5 | 53.5 | .... | .... | 55.5 | .... | .... |
| 8 | 56.5 | 71.5 | 56.5 | 56.5 | .... | 56.5 | 54.5 | .... | .... | 56.0 | .... | .... |
| 9 | .... | 82.0 | 56.5 | 56.5 | .... | 56.5 | 54.5 | .... | .... | 55.5 | .... | .... |
| 10 | .... | 78.5 | 70.5 | 56.5 | .... | 56.5 | 54.5 | .... | .... | 55.5 | .... | .... |
| 11 | .... | 80.5 | 56.5 | 56.5 | .... | 56.5 | 54.5 | .... | .... | 55.5 | .... | .... |
| 12 | .... | 57.0 | 56.5 | 56.5 | .... | 56.5 | 54.5 | 54.5 | .... | 55.5 | 55.0 | .... |

68--Continued.

Highest daily water level, in feet above land-surface datum, 1947

| (From recorder charts) | | | | | | | | | | | | |
|------------------------|------|------|------|------|------|------|------|------|-------|------|------|------|
| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
| 13 | 56.5 | 57.0 | 56.5 | 56.5 | .... | 56.5 | .... | 55.5 | 55.5 | 55.5 | 55.5 | .... |
| 14 | 56.5 | 57.0 | 56.5 | 56.5 | .... | 56.5 | .... | 54.5 | 55.5 | 65.5 | 55.5 | .... |
| 15 | 56.5 | 57.0 | 56.5 | 56.5 | .... | 56.5 | .... | 55.5 | 55.0 | 55.0 | 56.0 | .... |
| 16 | 56.5 | 57.0 | 56.5 | 56.5 | .... | 56.5 | .... | 55.5 | 55.5 | 55.0 | 55.5 | .... |
| 17 | 56.5 | 57.0 | 56.5 | 56.5 | .... | 56.5 | .... | 54.5 | 55.5 | 55.0 | 55.5 | .... |
| 18 | 56.5 | 57.0 | 56.5 | 56.5 | .... | 56.5 | .... | 55.5 | 55.5 | 55.0 | 55.5 | .... |
| 19 | 56.5 | 56.5 | 56.5 | 56.5 | .... | 56.5 | .... | .... | 55.0 | 55.0 | 55.0 | .... |
| 20 | 56.5 | 56.5 | 56.5 | 56.5 | 54.5 | 56.5 | .... | .... | 55.5 | 55.0 | .... | 55.5 |
| 21 | 58.5 | 71.5 | 56.5 | 56.5 | 55.5 | 56.5 | .... | .... | .... | 55.0 | .... | 55.5 |
| 22 | 68.0 | 56.5 | 56.5 | 56.5 | 55.5 | 56.5 | .... | .... | .... | 55.0 | .... | 55.5 |
| 23 | 56.5 | 56.5 | 56.5 | 56.5 | 55.5 | 56.5 | .... | .... | .... | 5.00 | .... | 55.5 |
| 24 | 56.5 | 73.0 | 56.5 | 56.5 | 56.0 | 56.5 | .... | .... | .... | 56.0 | .... | 55.5 |
| 25 | 56.5 | 90.5 | 56.5 | 56.5 | 56.0 | 56.5 | .... | .... | .... | 55.0 | .... | 55.5 |
| 26 | 56.5 | 96.5 | 56.5 | 56.5 | 56.0 | 56.5 | .... | .... | .... | .... | 55.5 | 55.5 |
| 27 | 57.5 | 66.5 | 56.5 | 56.5 | 56.5 | 56.5 | .... | .... | .... | .... | 55.5 | .... |
| 28 | 57.0 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | .... | .... | .... | .... | 55.5 | .... |
| 29 | 57.0 | .... | 56.5 | 56.5 | .... | 56.5 | .... | .... | .... | .... | 55.5 | .... |
| 30 | 57.0 | .... | 56.5 | 56.5 | .... | 56.5 | .... | .... | .... | .... | 56.5 | .... |
| 31 | 57.0 | .... | 56.5 | .... | .... | .... | .... | .... | .... | .... | .... | .... |

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; 1072, p. 202). Philipp Stave Mill. At Philipp, in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21, T. 22 N., R. 1 E. Water levels, in feet above land-surface datum, 1947: July 3, 15.11; Oct. 18, 8.83.

Tunica County

17 (*907, p. 68; 937, p. 73; 945, p. 94; 987, p. 116; 1017, p. 302; 1024, p. 178; 1072, p. 202). G. D. Perry, Sr. 3 miles southwest of Tunica, in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 7, T. 5 S., R. 11 W. Water level, in feet above land-surface datum, 1947: July 3, 21.53.

Washington County

25 (*886, p. 283; 907, p. 68; 937, p. 74; 945, p. 94; 987, p. 116; 1017, p. 302; 1024, p. 179; 1072, p. 202). Wagner Plantations. 5 miles east of Leland, in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 10, T. 18 N., R. 8 W. Water levels, in feet above land-surface datum, 1947: July 4, 25.47; Oct. 17, 30.52.

65 (*886, p. 283; 907, p. 68; 937, p. 74; 945, p. 94; 987, p. 116; 1017, p. 302; 1024, p. 179; 1072, p. 202). W. D. Atterbury. At Estill, 3 miles south of Hollandale, in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 25, T. 16 N., R. 7 W. Water levels, in feet above land-surface datum, 1947: July 4, 70.33; Oct. 17, 64.33.

70 (*886, p. 284; 907, p. 68; 937, p. 74; 945, p. 94; 987, p. 116; 1017, p. 302; 1024, p. 179; 1072, p. 202). Town of Hollandale. At Hollandale, in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6, T. 15 N., R. 6 W. Water level, in feet below land-surface datum, 1947: July 4, 13.88.

Yazoo County

2 (*845, p. 163; 886, p. 284; 987, p. 116; 1017, p. 302; 1024, p. 179; 1072, p. 202). Town of Eden. At Eden, in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 8, T. 13 N., R. 1 W. Water levels, in feet above land-surface datum, 1947: July 4, 28.42; Oct. 18, 26.60.

NORTH CAROLINA

By M. J. Mundorff

PROGRAM OF WORK

The program of water-level measurements, begun in 1931, was continued in 1947 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 1947. All of the wells added are in the Coastal Plain and reflect the elevation of the piezometric surface of water in the Cretaceous, Eocene, and Miocene artesian aquifers. One well measured in 1946 was destroyed before any measurements were made on it in 1947, and one well not measured in 1946 was measured in 1947, making a total of 50 wells which were measured at varying intervals during 1947. Of the 50 wells, 4 were destroyed or rendered immeasurable during the year so that at the end of 1947, 46 wells were being measured. Water-stage recorders were used on 8 wells, 2 wells were measured daily, 2 were measured twice weekly, 3 were measured weekly, 31 were measured about monthly, and 4 were measured occasionally.

FLUCTUATIONS OF WATER LEVEL

In North Carolina the fluctuations of the water level correlate with precipitation, but the correlation is usually modified by several other factors. Because the water table is generally closer to the surface and the surficial deposits are more permeable in the Coastal Plain, water-table wells in that section generally respond much more quickly to rainfall than wells in the Piedmont.

With normal precipitation, the cycle of water-level fluctuations begins with a gradual rise, usually sometime between November and January, and generally continues to rise until April or May 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.

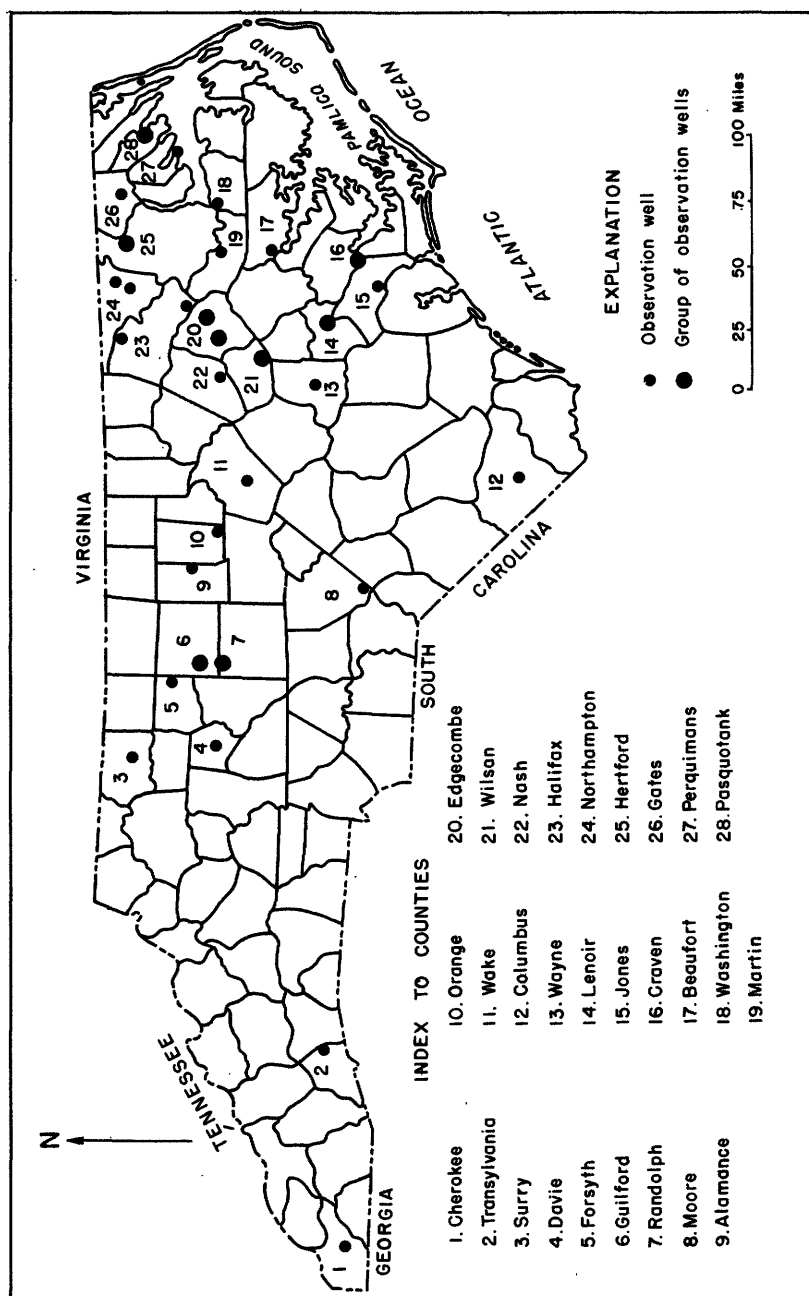


Figure 12.--Map of North Carolina showing location of observation wells, 1947.

The ground-water level rises in late winter and spring because very little water is lost by evaporation or is used by vegetation, so that a relatively large proportion of precipitation reaches the water table. Although the amount of rainfall is larger during the summer months, the amount used by vegetation and evaporation is so large that generally little or no rainfall reaches the water table.

In 1947 the average rainfall at all U. S. Weather Bureau stations in the State was 51.23 inches, 1.60 inches above normal. Precipitation was below normal in 7 months, from February through August with the exception of June, and also in December, and was above normal in the other 5 months.

Fluctuations of the water level in most wells show a reasonably close correlation with rainfall, although the amount of the fluctuation for a given amount of rainfall varies greatly from season to season as noted above. In most wells the rise in water level occurs within a few hours to a few days after the rainfall, but in some wells there may be a time lag of several weeks to several months. The time lag in Surry County well 1 appears to be from 4 to 6 months and, in some wells in artesian aquifers, probably is several months also.

Of the 36 wells measured at the end of both 1946 and 1947, 25 showed a net gain and 11 a net loss. Recovery of the water table began unusually early in 1947. The majority of the wells began to recover in September or October and were at above normal levels at the end of 1947, in spite of a dry December, due to heavy rainfall in September, October, and November.

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, 1947

| County | Well No. | Highest level | Date | Lowest level | Date | Range | Net gain (+) or loss (-) during year |
|-----------|----------|---------------|----------|--------------|----------|-------|--------------------------------------|
| Alamance | 1 | 18.57 | Jan. 22 | 25.44 | Nov. 17 | 6.87 | +3.40 |
| Cherokee | 1 | 39.29 | Mar. 25 | 42.66 | Dec. 31 | 3.37 | -.78 |
| Columbus | 1 | 1.58 | Oct. 18 | 8.28 | June 29 | 6.70 | +2.80 |
| Craven | 81 | 9.77 | Sept. 28 | 11.81 | Mar. 1 | 2.04 | ..... |
| | 102a | a 9.62 | Sept. 28 | 14.72 | June 29 | 5.10 | ..... |
| Davie | 1 | 19.04 | May 2 | 24.20 | Oct. 8 | 5.16 | +2.62 |
| Edgecombe | 23 | 3.28 | Nov. 24 | 10.78 | Sept. 27 | 7.50 | +1.03 |
| | 59 | 29.63 | Jan. 29 | 30.27 | Aug. 30 | .64 | -.16 |
| | 59a | a 25.09 | Dec. 29 | 30.74 | Nov. 24 | 5.65 | +2.39 |
| | 70 | 38.49 | Mar. 30 | 38.89 | Aug. 30 | .40 | -.11 |
| Forsyth | 19 | 43.74 | July 31 | 44.40 | Nov. 4 | .66 | +.09 |
| Gates | 22 | 8.93 | Nov. 24 | 9.49 | Aug. 1 | .56 | +.02 |
| Guilford | 2 | 26.62 | May 2 | 28.52 | Sept. 18 | 1.90 | +1.45 |
| | 4 | 30.28 | June 2 | 34.87 | Dec. 2 | 4.59 | -4.07 |

Summary of water-level fluctuations, in feet below land-surface datum, in North Carolina, 1947--Continued

| County | Well No. | Highest level | Date | Lowest level | Date | Range | Net gain (+) or loss (-) during year |
|-----------------|----------|---------------|----------|--------------|----------|-------|--------------------------------------|
| Guilford--Cont. | 7 | 20.87 | May 2 | 22.69 | Aug. 29 | 1.82 | +1.38 |
| | 8 | 25.75 | June 2 | 29.17 | Nov. 4 | 3.42 | +1.01 |
| | 12 | 30.79 | Dec. 2 | 33.83 | Aug. 29 | 3.04 | +2.89 |
| Halifax | 14 | 13.60 | May 2 | 16.49 | Aug. 29 | 2.89 | +2.47 |
| | 1 | 6.13 | Jan. 20 | 9.10 | Sept. 23 | 2.97 | +1.10 |
| | 150 | 18.68 | Jan. 29 | 19.35 | Aug. 1 | .67 | -4.40 |
| Hertford | 14 | 27.27 | May 31 | 27.95 | Jan. 29 | .68 | +2.25 |
| | 13 | 30.07 | Dec. 29 | 31.05 | Feb. 28 | .98 | ..... |
| Jones | 1 | 1.0 | Mar. 14 | 8.1 | July 15 | 7.1 | +1.2 |
| | | | Sept. 23 | | | | |
| Lenoir | 4 | a22.90 | June 29 | 30.80 | June 1 | 7.90 | ..... |
| | 4a | a21.46 | June 29 | 30.33 | Aug. 2 | 8.87 | ..... |
| | 27 | 20.85 | Dec. 31 | b20.91 | Aug. 2 | .06 | ..... |
| | 31 | +2.34 | May 1 | +7.79 | Nov. 2 | 1.55 | ..... |
| | 6 | 10.26 | Dec. 31 | 12.13 | Aug. 2 | 1.87 | ..... |
| | 6a | 6.49 | Nov. 26 | 8.48 | June 1 | 1.99 | ..... |
| Martin | 2c | 43.80 | Apr. 30 | 48.16 | Feb. 28 | 4.36 | +1.76 |
| Moore | 1 | 32.54 | Apr. 16 | 42.46 | Sept. 30 | 9.92 | +1.28 |
| Nash | 1 | .51 | Nov. 19 | 12.05 | Sept. 6 | 11.54 | +2.71 |
| Northampton | 40 | 33.09 | Feb. 28 | 34.18 | Sept. 27 | 1.09 | +3.34 |
| | 82 | 12.56 | Apr. 30 | 13.52 | Sept. 27 | .96 | -2.20 |
| Orange | 1 | 39.51 | May 2 | 42.98 | Nov. 9 | 3.47 | -1.64 |
| Pasquotank | 31T | .32 | Nov. 24 | 4.24 | June 28 | 2.92 | +6.66 |
| | | | | | Aug. 30 | | |
| | 33T | 2.50 | Apr. 30 | 7.62 | June 28 | 5.12 | -1.08 |
| | 200 | a16.67 | Dec. 30 | 34.36 | June 28 | 17.69 | +5.73 |
| Randolph | 20 | 22.63 | June 2 | 25.05 | Sept. 30 | 2.42 | +4.07 |
| | 25 | 26.07 | May 2 | 28.55 | Aug. 29 | 2.48 | +1.64 |
| Surry | | 42.05 | Oct. 13 | 43.92 | Apr. 14 | 1.87 | -1.73 |
| Transylvania | 1 | 29.14 | May 21 | 35.41 | Nov. 10 | 6.27 | -6.68 |
| | | | Jan. 18 | | | | |
| Wake | 1 | 7 | Mar. 15 | 14 | June 28 | 7 | -2 |
| | | | Nov. 27 | | | | |
| Washington | 1 | 10.61 | Nov. 24 | 15.06 | June 25 | 4.45 | +1.21 |
| Wayne | 1 | 1.70 | Dec. 6 | 3.76 | Jan. 11 | 2.06 | +1.60 |
| Wilson | 122 | a14.11 | Jan. 22 | 18.57 | Sept. 1 | 4.46 | ..... |
| | 149 | 19.31 | Nov. 26 | 19.92 | Aug. 2 | .61 | ..... |
| | 151 | +4.95 | Dec. 31 | +4.44 | June 1 | .51 | ..... |

a Affected by pumping of well itself, or by nearby wells.

b Lowest nonpumping level.

Observation wells in the Piedmont section of North Carolina are all dug wells and obtain their water from the subsoil formed by weathering of rocks such as granite, gneiss, schist, and slate. The fluctuation of water in the wells reflects fluctuation of the water table. The water level in these wells rose generally during the first 5 to 6 months of the year. Of the 15 wells in this section, 8 reached their highest level in May, 3 in June, and 1 each in January, March, July, and October. The well which reached its highest level in October was Surry County well 1, which appears to lag several months behind the time at which recharge enters the subsoil. The water level declined in most wells from June until October, at which time, because of heavy rainfall, most wells began an unusually early fall recovery.

Wells in the Coastal Plain include both shallow dug wells in which the water level is a part of the water table, and deeper wells entering artesian aquifers, the water levels of which are points on the piezometric surface. The shallow wells usually respond quickly to precipitation, generally showing a rise after every rainfall of consequence. The wells in artesian aquifers, being some distance from the areas of recharge, generally do not show a correlation with individual rainfalls, but do show a seasonal trend.

Water levels in most of the shallow wells of the Coastal Plain rose during the first half of January and declined during the last half of the month, the entire month of February and the first week in March. The water level then rose considerably in most wells and remained at relatively high levels during most of April. Water levels declined very strongly during May and June, generally rose during July, and declined during August. In nearly all wells the water levels rose strongly during September. From September to the end of the year the water levels in most of these wells were characterized by rapid rises caused by heavy rainstorms and not quite so rapid declines after cessation of the rain, with a general upward trend in the water-table fluctuations from September to the end of the year.

Of 13 wells ending in artesian aquifers (disregarding those observation wells which were affected by pumping of the wells themselves), 8 ranged less than 1 foot in total fluctuation during the year. The other five, showing a total range of about 1.50 to 7.50 feet, either are very close to areas of recharge or more affected by pumping of nearby wells.

Most of the artesian wells reached their highest levels for the year during January, late spring, November, or December. Most of them reached their lowest levels during August and September.

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; 1072, p. 208). 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, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 24.62 | 20.49 | 22.06 | 21.08 | 21.60 | 22.72 | 23.23 | 23.90 | 24.09 | 24.23 | 22.98 | 19.89 |
| 2 | 24.63 | 20.66 | 22.03 | 21.09 | 21.60 | 22.75 | 23.20 | 23.94 | 24.12 | 24.22 | 23.00 | 20.01 |
| 3 | 24.58 | 20.82 | 22.00 | 21.08 | 21.63 | 22.78 | 23.18 | 23.97 | 24.16 | 24.19 | 23.05 | 20.14 |
| 4 | 24.46 | 20.89 | 22.01 | 21.10 | 21.68 | 22.82 | 23.20 | 24.00 | 24.20 | 24.18 | 23.00 | 20.25 |

1--Continued.

Mean daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 24.54 | 20.97 | 22.03 | 21.12 | 21.72 | 22.89 | 23.25 | 24.04 | 24.25 | 24.18 | 22.93 | 20.32 |
| 6 | 24.23 | 21.12 | 22.05 | 21.16 | 21.78 | 22.95 | 23.30 | 24.06 | 24.31 | 24.18 | 22.90 | 20.40 |
| 7 | 24.15 | 21.22 | 22.07 | 21.20 | 21.83 | 23.00 | 23.35 | 24.09 | 24.36 | 24.18 | 22.90 | 20.51 |
| 8 | 24.11 | 21.30 | 22.07 | 21.25 | 21.89 | 23.04 | 23.39 | 24.10 | 24.41 | 24.18 | 22.84 | 20.59 |
| 9 | 24.06 | 21.45 | 21.93 | 21.30 | 21.96 | 23.09 | 23.40 | 24.10 | 24.46 | 24.18 | 22.73 | 20.70 |
| 10 | 24.05 | 21.57 | 21.39 | 21.38 | 22.03 | 23.15 | 23.43 | 24.10 | 24.48 | 24.15 | 22.67 | 20.80 |
| 11 | 24.03 | 21.71 | 20.93 | 21.43 | 22.09 | 23.20 | 23.46 | 24.11 | 24.53 | 24.00 | 22.20 | 20.87 |
| 12 | 23.97 | 21.81 | 20.66 | 21.39 | 22.12 | 23.28 | 23.49 | 24.11 | 24.58 | 23.87 | 21.20 | 20.96 |
| 13 | 23.81 | 21.88 | 20.46 | 21.37 | 22.13 | 23.55 | 23.50 | 24.12 | 24.60 | 23.77 | 20.85 | 21.03 |
| 14 | 22.74 | 21.93 | 19.88 | 21.33 | 22.15 | 23.40 | 23.53 | 24.14 | 24.64 | 23.70 | 20.75 | 21.10 |
| 15 | 22.18 | 21.95 | 19.63 | 21.28 | 22.19 | 23.44 | 23.55 | 24.14 | 24.68 | 23.65 | 20.40 | 21.15 |
| 16 | 21.91 | 21.99 | 19.57 | 21.20 | 22.22 | 23.45 | 23.55 | 24.14 | 24.73 | 23.61 | 19.84 | 20.93 |
| 17 | 21.72 | 22.06 | 19.58 | 21.13 | 22.24 | 23.48 | 23.55 | 24.14 | 24.78 | 23.59 | 19.65 | 20.75 |
| 18 | 21.29 | 22.12 | 19.71 | 21.12 | 22.27 | 23.50 | 23.56 | 24.14 | 24.80 | 23.57 | 19.63 | 20.67 |
| 19 | 21.21 | 22.17 | 19.87 | 21.13 | 22.28 | 23.55 | 23.57 | 24.14 | 24.82 | 23.55 | 19.23 | 20.64 |
| 20 | 19.16 | 22.24 | 19.96 | 21.11 | 22.30 | 23.57 | 23.60 | 24.13 | 24.86 | 23.40 | 18.88 | 20.64 |
| 21 | 18.61 | 22.25 | 20.06 | 21.09 | 22.32 | 23.50 | 23.62 | 24.15 | 24.88 | 23.18 | 18.80 | 20.64 |
| 22 | 18.57 | 22.25 | 20.17 | 21.12 | 22.36 | 23.45 | 23.65 | 24.16 | 24.92 | 23.05 | 18.86 | 20.65 |
| 23 | 18.67 | 22.22 | 20.31 | 21.20 | 22.40 | 23.40 | 23.66 | 24.13 | 24.94 | 22.95 | 18.95 | 20.66 |
| 24 | 18.66 | 22.17 | 20.37 | 21.24 | 22.44 | 23.39 | 23.70 | 24.09 | 24.97 | 22.93 | 19.00 | 20.74 |
| 25 | 19.09 | 22.14 | 20.40 | 21.27 | 22.48 | 23.38 | 23.73 | 24.07 | 24.92 | 22.92 | 19.05 | 20.80 |
| 26 | 19.32 | 22.10 | 20.53 | 21.32 | 22.50 | 23.39 | 23.75 | 24.05 | 24.74 | 22.92 | 19.15 | 20.85 |
| 27 | 19.57 | 22.06 | 20.68 | 21.41 | 22.54 | 23.34 | 23.77 | 24.03 | 24.57 | 22.92 | 19.30 | 20.90 |
| 28 | 19.92 | 22.06 | 20.77 | 21.51 | 22.56 | 23.26 | 23.79 | 24.03 | 24.47 | 22.92 | 19.45 | 20.95 |
| 29 | 20.02 | | 20.86 | 21.55 | 22.59 | 23.25 | 23.82 | 24.03 | 24.37 | 22.92 | 19.57 | 21.05 |
| 30 | 20.17 | | 20.83 | 21.58 | 22.63 | 23.25 | 23.85 | 24.03 | 24.28 | 22.93 | 19.72 | 21.12 |
| 31 | 20.31 | | 21.02 | | 22.69 | | 23.87 | 24.07 | | 22.94 | | 21.18 |

Beaufort County

10-1 (*1072, p. 208). Town of Washington. At Washington, 50 yards northwest of rear of power and water plant in well field. Well destroyed; measurements discontinued.

Cherokee County

1 (*987, p. 124; 1017, p. 312; 1024, p. 188; 1072, p. 209). Elliott well. At Murphy, in rear of First Baptist Church.

Water level, in feet below land-surface datum, 1947

(From float-tape gage)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 41.88 | 39.84 | 39.45 | 39.36 | 39.39 | 39.72 | 40.23 | 40.74 | 41.22 | 41.75 | 42.23 | 42.57 |
| 2 | 41.75 | 39.84 | 39.43 | 39.34 | 39.37 | 39.70 | 40.25 | 40.75 | 41.24 | 41.78 | 42.25 | 42.58 |
| 3 | 41.72 | 39.81 | 39.43 | 39.32 | 39.35 | 39.70 | 40.27 | 40.79 | 41.26 | 41.79 | 42.25 | 42.59 |
| 4 | 41.76 | 39.72 | 39.45 | 39.35 | 39.38 | 39.74 | 40.29 | 40.81 | 41.28 | 41.80 | 42.28 | 42.59 |
| 5 | 41.77 | 39.69 | 39.45 | 39.35 | 39.39 | 39.78 | 40.32 | 40.81 | 41.29 | 41.81 | 42.30 | 42.58 |
| 6 | 41.78 | 39.65 | 39.43 | 39.37 | 39.42 | 39.79 | 40.34 | 40.85 | 41.29 | 41.82 | 42.31 | 42.58 |
| 7 | 41.77 | 39.61 | 39.40 | 39.40 | 39.42 | 39.78 | 40.33 | 40.84 | 41.31 | 41.84 | 42.33 | 42.59 |
| 8 | 41.78 | 39.61 | 39.29 | 39.40 | 39.45 | 39.79 | 40.35 | 40.87 | 41.33 | 41.84 | 42.35 | 42.60 |
| 9 | 41.77 | 39.62 | 39.31 | 39.38 | 39.47 | 39.80 | 40.37 | 40.87 | 41.36 | 41.86 | 42.35 | 42.62 |
| 10 | 41.77 | 39.62 | 39.40 | 39.39 | 39.48 | 39.82 | 40.39 | 40.88 | 41.38 | 41.89 | 42.37 | 42.63 |
| 11 | 41.76 | 39.63 | 39.41 | 39.39 | 39.51 | 39.85 | 40.43 | 40.92 | 41.40 | 41.91 | 42.36 | 42.63 |
| 12 | 41.69 | 39.64 | 39.39 | 39.40 | 39.52 | 39.86 | 40.44 | 40.96 | 41.42 | 41.93 | 42.35 | 42.63 |
| 13 | 41.66 | 39.63 | 39.37 | 39.42 | 39.50 | 39.87 | 40.48 | 40.96 | 41.41 | 41.94 | 42.38 | 42.64 |
| 14 | 41.64 | 39.59 | 39.35 | 39.40 | 39.47 | 39.87 | 40.49 | 40.97 | 41.42 | 41.95 | 42.40 | 42.64 |
| 15 | 41.47 | 39.57 | 39.36 | 39.36 | 39.49 | 39.89 | 40.50 | 40.98 | 41.44 | 41.84 | 42.38 | 42.64 |
| 16 | 41.24 | 39.55 | 39.35 | 39.34 | 39.50 | 39.94 | 40.49 | 41.00 | 41.47 | 41.85 | 42.40 | 42.63 |
| 17 | 41.02 | 39.52 | 39.34 | 38.32 | 39.52 | 39.95 | 40.45 | 41.02 | 41.51 | 41.87 | 42.42 | 42.63 |
| 18 | 40.98 | 39.50 | 39.34 | 39.38 | 39.52 | 39.98 | 40.48 | 41.04 | 41.54 | 42.02 | 42.43 | 42.63 |
| 19 | 40.70 | 39.47 | 39.34 | 39.40 | 39.52 | 40.01 | 40.50 | 41.04 | 41.56 | 42.03 | 42.44 | 42.63 |
| 20 | 40.22 | 39.44 | 39.32 | 39.39 | 39.52 | 40.03 | 40.54 | 41.06 | 41.55 | 42.04 | 42.46 | 42.63 |
| 21 | 40.12 | 39.44 | 39.31 | 39.36 | 39.51 | 40.06 | 40.57 | 41.07 | 41.55 | 42.06 | 42.48 | 42.63 |
| 22 | 40.23 | 39.44 | 39.33 | 39.39 | 39.55 | 40.06 | 40.60 | 41.08 | 41.56 | 42.07 | 42.48 | 42.63 |

a Interpolated.

1--Continued.

Water level, in feet below land-surface datum, 1947
(From float-tape gage)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 23 | 40.24 | 39.45 | 39.56 | 39.43 | 39.59 | 40.08 | 40.63 | 41.09 | 41.58 | 42.10 | 42.49 | 42.63 |
| 24 | 40.18 | 39.46 | 39.51 | 39.43 | 39.60 | 41.10 | 40.64 | 41.10 | 41.58 | 42.13 | 42.48 | 42.63 |
| 25 | 40.13 | 39.46 | 39.28 | 39.41 | 39.58 | 40.12 | 40.67 | 41.11 | 41.63 | 42.14 | 42.48 | 42.62 |
| 26 | 40.06 | 39.47 | 39.34 | 39.40 | 39.60 | 40.13 | 40.69 | 41.13 | 41.66 | 42.16 | 42.50 | 42.62 |
| 27 | 40.02 | 39.48 | 39.36 | 39.41 | 39.62 | 40.14 | 40.68 | 41.14 | 41.68 | 42.16 | 42.62 | 42.63 |
| 28 | 40.00 | 39.49 | 39.35 | 39.42 | 39.63 | 40.15 | 40.69 | 41.17 | 41.71 | 42.16 | 42.54 | 42.64 |
| 29 | 39.94 | | 39.35 | 39.42 | 39.63 | 40.18 | 40.69 | 41.19 | 41.72 | 42.17 | 42.56 | 42.65 |
| 30 | 39.86 | | 39.36 | 39.41 | 39.65 | 40.22 | 40.71 | 41.20 | 41.74 | 42.18 | 42.56 | 42.66 |
| 31 | 39.85 | | 39.36 | | 39.68 | | 40.73 | 41.21 | | 42.22 | | 42.66 |

a Interpolated.

Columbus County1 (*1017, p. 312; 1024, p. 188; 1072, p. 209). Mrs. C. W. Maulsby.
In Whiteville.Mean daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1 | 6.45 | 5.43 | 7.46 | 5.62 | 4.95 | 7.39 | 8.23 | .... | 7.38 | 5.22 | 3.86 | 4.13 |
| 2 | 5.85 | 5.53 | 7.50 | 5.31 | 5.09 | 7.38 | 8.19 | .... | 7.20 | 5.43 | 4.10 | 4.28 |
| 3 | 5.24 | 5.63 | 7.54 | 4.05 | 5.22 | 7.38 | 8.14 | .... | 7.06 | 5.64 | 4.06 | 4.43 |
| 4 | 4.93 | 5.68 | 7.57 | 3.48 | 5.38 | 7.39 | 8.09 | .... | 6.96 | 5.86 | 4.24 | 4.56 |
| 5 | 4.47 | 5.78 | 7.61 | 3.70 | 5.50 | 7.41 | 8.05 | 5.57 | 6.88 | 6.06 | 4.45 | 4.66 |
| 6 | 4.02 | 5.91 | 7.64 | 3.97 | 5.67 | 7.45 | 8.03 | 5.75 | 6.85 | 6.25 | 4.64 | 4.78 |
| 7 | 3.87 | 6.00 | 7.67 | 4.21 | 5.80 | 7.49 | 8.02 | 5.93 | 6.85 | 6.38 | 4.82 | 4.90 |
| 8 | 3.98 | 6.12 | 7.60 | 4.42 | 5.98 | 7.54 | 8.02 | 6.10 | 6.86 | 6.49 | 4.94 | 4.98 |
| 9 | 4.09 | 6.23 | 7.34 | 4.44 | 6.14 | 7.58 | 8.02 | 6.26 | .... | 6.50 | 5.09 | 5.12 |
| 10 | 4.32 | 6.34 | 6.93 | 4.22 | 6.30 | 7.64 | 8.03 | 6.42 | .... | 6.46 | 5.20 | 5.19 |
| 11 | 4.50 | 6.43 | 6.32 | 4.18 | 6.47 | 7.70 | 8.05 | 6.55 | .... | 6.46 | 4.54 | 5.10 |
| 12 | 4.60 | 6.53 | 5.84 | 3.22 | 6.58 | 7.76 | 8.07 | 6.65 | .... | 6.48 | 2.02 | 4.89 |
| 13 | 4.56 | 6.61 | 5.65 | 1.82 | 6.69 | 7.81 | 8.09 | 6.74 | .... | 6.53 | 2.42 | 4.29 |
| 14 | 4.07 | 6.68 | 5.52 | 1.46 | 6.79 | 7.86 | 8.12 | 6.82 | .... | 6.56 | 2.97 | 2.83 |
| 15 | 3.81 | 6.74 | 5.25 | 1.35 | 6.90 | 7.90 | 8.14 | 6.91 | .... | 4.42 | 2.32 | 3.06 |
| 16 | 3.94 | 6.80 | 5.03 | 1.48 | 7.05 | 7.93 | 8.03 | 6.99 | .... | 2.04 | 1.73 | 2.78 |
| 17 | 4.16 | 6.88 | 4.99 | 1.48 | 7.14 | 7.95 | .... | 7.08 | .... | 1.96 | 2.37 | 3.14 |
| 18 | 4.33 | 6.94 | 5.04 | 2.04 | 7.24 | 7.96 | .... | 7.14 | .... | 1.58 | 2.90 | 3.54 |
| 19 | 4.40 | 7.00 | 5.12 | 2.46 | 7.32 | 7.98 | .... | 7.22 | .... | 2.19 | 2.59 | 3.70 |
| 20 | 3.98 | 7.05 | 5.02 | 2.79 | 7.41 | 8.01 | .... | 7.30 | .... | 2.73 | 2.27 | 3.83 |
| 21 | 3.79 | 7.09 | 4.76 | 3.13 | 7.48 | 8.04 | .... | 7.40 | .... | 3.26 | 2.58 | 3.71 |
| 22 | 4.01 | 7.14 | 4.70 | 3.47 | 7.55 | 8.08 | .... | 7.48 | .... | 3.70 | 3.00 | 2.05 |
| 23 | 4.24 | 7.19 | 4.75 | 3.72 | 7.63 | 8.11 | .... | 7.56 | .... | 4.04 | 2.46 | 2.30 |
| 24 | 4.44 | 7.23 | 4.80 | 3.88 | 7.69 | 8.14 | .... | 7.63 | 6.84 | 4.30 | 2.27 | 2.88 |
| 25 | 4.60 | 7.28 | 4.90 | 4.04 | 7.75 | 8.17 | .... | 7.67 | 4.34 | 4.54 | 2.09 | 2.83 |
| 26 | 4.74 | 7.33 | 5.09 | 4.24 | 7.74 | 8.21 | .... | 7.72 | 3.86 | 4.74 | 2.68 | 1.62 |
| 27 | 4.88 | 7.37 | 5.24 | 4.38 | 7.58 | 8.24 | .... | 7.76 | 4.09 | 4.92 | 3.19 | 2.14 |
| 28 | 5.03 | 7.42 | 5.32 | 4.54 | 7.55 | 8.27 | .... | 7.77 | 4.40 | 4.46 | 3.48 | 2.62 |
| 29 | 5.14 | | 5.46 | 4.70 | 7.51 | 8.28 | .... | 7.76 | 4.66 | 2.40 | 3.74 | 3.12 |
| 30 | 5.23 | | 5.55 | 4.83 | 7.46 | 8.27 | .... | 7.71 | 4.92 | 2.79 | 3.90 | 3.46 |
| 31 | 5.34 | | 5.63 | | 7.42 |  | .... | 7.55 | | 3.37 | | 3.69 |

Craven County

81. City of New Bern. At New Bern, on Glenburnie tract of old city wells, at old pump station No. 2, about 200 feet southwest of Neuse River, 400 feet east of road. Unused drilled well, diameter 8 inches, depth 120 feet, ending in the Trent (?) marl. Measuring point, top of west wall of square concrete curbing, which is 7.8 feet deep, 0.2 foot above land-surface datum.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 25 | 11.26 | May 1 | 11.58 | Sept. 28 | 9.77 | Nov. 26 | 10.65 |
| May 1 | 11.81 | June 1 | 11.79 | Nov. 2 | 10.49 | Dec. 31 | 11.06 |
| 31 | 11.40 | Sept. 1 | 11.26 | | | | |

102a. City of New Bern. North side of U. S. Highway 70, northwest of New Bern, about 0.1 mile northwest of new pumping station and reservoir, 29 feet east of pump house of city well 2. Drilled observation well, diameter 4 inches, depth 38 (?) feet, ending in the Trent (?) marl. Measuring point, top of 4-inch casing, 0.3 foot above land-surface datum.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Jan. 25 | 11.26 | May 1 | 12.54 | Aug. 2 | 12.18 | Nov. 2 | 9.95 |
| Mar. 1 | 12.72 | June 1 | 13.04 | Sept. 1 | 10.52 | 26 | 10.38 |
| 31 | 11.30 | 29 | 14.72 | 28 | 9.62 | Dec. 31 | 9.98 |

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; 1072, p. 210). 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, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 23.05 | 20.25 | 20.22 | 19.49 | 19.05 | 20.01 | 21.07 | 21.99 | 23.09 | 24.03 | 23.17 | 20.52 |
| 2 | 23.06 | 20.24 | 20.15 | 19.40 | 19.04 | 20.01 | 21.11 | 22.04 | 23.12 | 24.08 | 22.82 | 20.51 |
| 3 | 22.93 | 20.22 | 20.18 | 19.39 | 19.04 | 20.03 | 21.16 | 22.09 | 23.18 | 24.10 | 21.96 | 20.49 |
| 4 | 22.81 | 20.10 | 20.23 | 19.46 | 19.08 | 20.12 | 21.20 | 22.12 | 23.25 | 24.12 | 22.29 | 20.46 |
| 5 | 22.83 | 20.08 | 20.25 | 19.44 | 19.09 | 20.16 | 21.24 | 22.16 | 23.34 | 24.14 | 22.37 | 20.40 |
| 6 | 22.79 | 20.08 | 20.25 | 19.41 | 19.14 | 20.17 | 21.18 | 22.19 | 23.40 | 24.16 | 22.37 | 20.38 |
| 7 | 22.76 | 20.06 | 20.26 | 19.41 | 19.14 | 20.18 | 21.24 | 22.22 | 23.46 | 24.18 | 22.34 | 20.40 |
| 8 | 22.70 | 20.08 | 19.97 | 19.43 | 19.21 | 20.21 | 21.29 | 22.26 | 23.50 | 24.20 | 22.15 | 20.39 |
| 9 | 22.66 | 20.14 | 19.98 | 19.39 | 19.27 | ..... | 21.33 | 22.28 | 23.53 | 23.74 | 22.14 | 20.40 |
| 10 | 22.65 | 20.16 | 20.00 | 19.43 | ..... | ..... | 21.38 | 22.32 | 23.56 | 23.97 | 22.13 | 20.43 |
| 11 | 22.59 | 20.21 | 19.97 | 19.40 | ..... | ..... | 21.41 | 22.38 | 23.59 | 24.01 | 21.58 | 20.43 |
| 12 | 22.38 | 20.22 | 19.94 | 19.38 | 19.34 | ..... | 21.45 | 22.42 | 23.62 | 24.01 | 21.63 | 20.44 |
| 13 | 22.33 | 20.21 | 19.84 | 19.41 | 19.33 | ..... | 21.47 | 22.44 | 23.65 | 24.00 | 21.68 | 20.45 |
| 14 | 21.87 | 20.17 | 19.65 | 19.40 | 19.32 | ..... | 21.51 | 22.48 | 23.68 | 23.96 | 21.66 | 20.46 |
| 15 | 22.11 | 20.11 | 19.66 | 19.39 | 19.39 | ..... | 21.54 | 22.52 | 23.71 | 23.92 | 21.21 | 20.41 |
| 16 | 22.08 | 20.11 | 19.63 | 19.34 | 19.44 | ..... | 21.56 | 22.56 | 23.75 | 23.90 | 21.26 | 20.28 |
| 17 | 21.99 | 20.14 | 19.60 | 19.22 | 19.46 | ..... | 21.59 | 22.61 | 23.80 | 23.86 | 21.26 | 20.42 |
| 18 | 21.76 | 20.16 | 19.61 | 19.28 | 19.48 | 20.61 | 21.62 | 22.65 | 23.82 | 23.82 | 21.20 | 20.43 |
| 19 | 21.36 | 20.18 | 19.60 | 19.24 | 19.51 | 20.66 | 21.65 | 22.68 | 23.84 | 23.81 | 20.93 | 20.42 |
| 20 | 20.18 | 20.19 | 19.53 | 19.19 | 19.55 | 20.71 | 21.67 | 22.72 | 23.96 | 23.80 | 20.95 | 20.43 |
| 21 | 20.60 | 20.17 | 19.51 | 19.14 | 19.59 | 20.74 | 21.68 | 22.76 | 23.89 | 23.78 | 20.93 | 20.40 |
| 22 | 20.75 | 20.19 | 19.51 | 19.19 | 19.65 | 20.78 | 21.69 | 22.80 | 23.82 | 23.75 | 20.82 | 20.38 |
| 23 | 20.71 | 20.15 | 19.52 | 19.19 | 19.72 | 20.80 | 21.73 | 22.82 | 23.96 | 23.73 | 20.70 | 20.37 |
| 24 | 20.60 | 20.18 | 19.44 | 19.14 | 19.74 | 20.81 | 21.77 | 22.85 | 23.67 | 23.44 | 20.62 | 20.39 |
| 25 | 20.52 | 20.21 | 19.40 | 19.08 | 19.75 | 20.83 | 21.82 | 22.88 | 23.29 | 23.63 | 20.58 | 20.40 |
| 26 | 20.42 | 20.22 | 19.47 | 19.09 | 19.79 | 20.88 | 21.83 | 22.89 | 23.72 | 23.54 | 20.57 | 20.38 |
| 27 | 20.40 | 20.23 | 19.51 | 19.10 | 19.83 | 20.92 | 21.84 | 22.92 | 23.89 | 23.53 | 20.57 | 20.36 |
| 28 | 20.37 | 20.24 | 19.47 | 19.08 | 19.86 | 20.96 | 21.86 | 22.95 | 23.96 | 23.42 | 20.56 | 20.37 |
| 29 | 20.31 | | 19.48 | 19.09 | 19.82 | 21.00 | 21.88 | 22.99 | 23.98 | 23.31 | 20.55 | 20.39 |
| 30 | 20.24 | | 19.47 | 19.07 | 19.88 | 21.04 | 21.92 | 23.03 | 24.00 | 23.23 | 20.53 | 20.41 |
| 31 | 20.21 | | 19.49 | | 19.98 | | 21.96 | 23.05 | | 23.20 | | 20.41 |

Edgecombe County

23 (*1072, p. 210). John Lane. At Speed, 8 miles northeast of Tarboro.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 25 | 6.22 | Apr. 30 | 7.22 | Aug. 1 | 8.07 | Nov. 1 | 6.21 |
| Feb. 28 | 6.25 | May 31 | 3.51 | 30 | 7.23 | 24 | 3.28 |
| Mar. 30 | 9.25 | June 28 | 7.84 | Sept. 27 | 10.78 | Dec. 29 | 5.64 |

59 (*1072, p. 211). I. W. Calhoun. About 9 miles east of Rocky Mount.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 29 | 29.63 | Apr. 30 | 29.84 | Aug. 1 | 30.16 | Nov. 24 | 29.75 |
| Feb. 28 | 29.80 | May 31 | 30.00 | 30 | 30.27 | Dec. 29 | 29.85 |
| Mar. 30 | 29.72 | June 28 | 30.08 | Sept. 27 | 30.22 | | |

59a (*1072, p. 211). I. W. Calhoun. About 9 miles east of Rocky Mount.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 29 | 25.75 | Apr. 30 | 26.97 | Aug. 1 | 28.08 | Nov. 1 | 27.96 |
| Feb. 28 | 25.94 | May 31 | 26.88 | 30 | 28.40 | 24 | 30.74 |
| Mar. 30 | 27.00 | June 28 | 27.20 | Sept. 27 | 27.53 | Dec. 29 | 25.09 |

70 (*1072, p. 211). W. Z. Wilson. At Coakley, about 7 miles northeast of Tarboro.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 29 | 38.51 | Apr. 30 | 38.49 | Aug. 1 | 38.67 | Nov. 1 | 38.80 |
| Feb. 28 | 38.49 | May 31 | 38.63 | 30 | 38.89 | 24 | 38.50 |
| Mar. 30 | 38.49 | June 28 | 38.72 | Sept. 27 | 38.85 | Dec. 29 | 38.60 |

Forsyth County

19 (*777, p. 138; *817, p. 218; *840, p. 309; 845, p. 340; 886, p. 521; 907, p. 77; 937, p. 81; *945, p. 104; *987, p. 126; 1017, p. 313; 1024, p. 189; 1072, p. 211). W. C. Michael. On High Point-Kernersville highway, 1 mile south of Kernersville, 40 feet west of highway.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|--------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Mar. 2 | 44.17 | June 2 | 43.87 | Aug. 29 | 43.93 | Nov. 4 | 44.40 |
| Apr. 1 | 44.24 | 30 | 43.82 | Sept. 30 | 44.22 | Dec. 2 | 44.11 |
| May 2 | 43.98 | July 31 | 43.74 | | | | |

Gates County

22 (*1072, p. 212). C. E. Lang. About 3 miles northeast of Gatesville, 0.3 mile northeast of prison camp. Measurements discontinued Dec. 29, 1947.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|----------|-------------|--------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 29 | 8.94 | Apr. 30 | 9.10 | Aug. 1 | 9.49 | Nov. 1 | 9.42 |
| Feb. 28 | 9.05 | May 31 | 9.35 | 30 | 9.41 | 24 | 8.93 |
| Mar. 30 | 9.05 | June 28 | 9.42 | Sept. 27 | 9.44 | | |

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; 1072, p. 212). 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, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 28.43 | 27.72 | 27.71 | 27.24 | 26.65 | 26.95 | 27.32 | 27.79 | 28.24 | ..... | ..... |
| 2 | 28.40 | 27.75 | 27.63 | 27.12 | 26.62 | 26.90 | 27.35 | 27.82 | 28.25 | ..... | 27.28 |
| 3 | 28.36 | 27.74 | 27.69 | 27.22 | 26.62 | 26.93 | 27.38 | 27.85 | 28.29 | ..... | 27.26 |
| 4 | 28.39 | 27.69 | 27.74 | 27.20 | 26.65 | 27.02 | 27.40 | 27.85 | 28.30 | 28.22 | 27.25 |
| 5 | 28.38 | 27.61 | 27.75 | 27.13 | 26.64 | 27.03 | 27.41 | 27.87 | 28.30 | ..... | 27.20 |
| 6 | 28.38 | 27.61 | 27.75 | 27.12 | 26.69 | 26.98 | 27.41 | ..... | 28.32 | ..... | 27.20 |
| 7 | 28.38 | 27.58 | 27.75 | 27.13 | 26.66 | 26.96 | 27.40 | ..... | 28.35 | ..... | 27.21 |
| 8 | 28.35 | 27.63 | 27.68 | 27.10 | 26.74 | 26.96 | 27.42 | ..... | 28.37 | ..... | 27.15 |
| 9 | 28.39 | 27.69 | 27.74 | 27.09 | 26.77 | 27.00 | 27.45 | ..... | 28.38 | ..... | 27.23 |
| 10 | 28.43 | 27.72 | 27.71 | 27.14 | 26.82 | 27.03 | 27.47 | ..... | 28.39 | ..... | 27.20 |
| 11 | 28.40 | 27.77 | 27.65 | 27.03 | 26.82 | 27.05 | 27.49 | ..... | 28.40 | ..... | 27.18 |

2--Continued.

Mean daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 12 | 28.36 | 27.78 | 27.61 | 27.06 | 26.78 | 27.06 | 27.50 | ..... | 28.41 | ..... | 27.20 |
| 13 | 28.42 | 27.76 | 27.51 | 27.05 | 26.72 | 27.06 | 27.51 | ..... | 28.41 | ..... | 27.18 |
| 14 | 28.38 | 27.71 | 27.28 | 26.99 | 26.69 | 27.05 | 27.52 | ..... | 28.42 | ..... | 27.18 |
| 15 | 28.35 | 27.64 | 27.32 | 26.98 | 26.76 | 27.09 | 27.51 | ..... | 28.43 | ..... | 27.14 |
| 16 | 28.29 | 27.65 | 27.28 | 26.85 | 26.78 | 27.11 | 27.52 | ..... | 28.47 | ..... | 27.10 |
| 17 | 28.31 | 27.68 | 27.26 | 26.88 | 26.77 | 27.13 | 27.54 | ..... | 28.52 | ..... | 27.20 |
| 18 | 28.26 | 27.71 | 27.31 | 26.88 | 26.76 | 27.15 | 27.56 | ..... | 28.52 | ..... | 27.12 |
| 19 | 28.12 | 27.74 | 27.31 | 26.83 | 26.75 | 27.19 | 27.56 | ..... | 28.50 | ..... | 27.11 |
| 20 | 27.85 | 27.70 | 27.24 | 26.75 | 26.75 | 27.21 | 27.60 | ..... | 28.49 | ..... | 27.10 |
| 21 | 27.75 | 27.69 | 27.21 | 26.75 | 26.77 | 26.24 | 27.61 | ..... | 28.48 | ..... | 27.01 |
| 22 | 27.91 | 27.73 | 27.22 | 26.84 | 26.82 | 27.26 | 27.63 | ..... | 28.47 | ..... | 27.02 |
| 23 | 27.89 | 27.69 | 27.28 | 26.81 | 26.86 | 27.24 | 27.68 | ..... | 28.53 | ..... | 26.99 |
| 24 | 27.82 | 27.74 | 27.18 | 26.73 | 26.85 | 27.22 | 27.74 | ..... | 28.44 | ..... | 27.04 |
| 25 | 27.77 | 27.76 | 27.09 | 26.68 | 26.81 | 27.25 | 27.75 | ..... | 28.25 | ..... | 26.99 |
| 26 | 27.73 | 27.77 | 27.19 | 26.74 | 26.85 | 27.23 | 27.74 | ..... | 28.34 | ..... | 26.93 |
| 27 | 27.70 | 27.77 | 27.28 | 26.71 | 26.87 | 27.26 | 27.72 | ..... | 28.35 | ..... | 26.95 |
| 28 | 27.73 | 27.78 | 27.21 | 26.73 | 26.86 | 27.27 | 27.69 | ..... | ..... | ..... | 26.93 |
| 29 | 27.72 | ..... | 27.25 | 26.73 | 26.84 | 27.30 | 27.72 | 28.21 | ..... | ..... | 26.98 |
| 30 | 27.68 | ..... | 27.20 | 26.67 | 26.88 | 27.32 | 27.76 | 28.25 | 28.25 | ..... | 26.98 |
| 31 | 27.68 | ..... | 27.24 | ..... | 26.96 | ..... | 27.78 | 28.23 | ..... | ..... | 26.97 |

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; 1072, p. 212). W. O. Atkins. About 0.3 mile west of Colfax, 300 feet south of U. S. Highway 421.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|----------|-------------|--------|-------------|
| Jan. 31 | 31.35 | May 2 | 31.01 | July 31 | 30.55 | Nov. 4 | 33.65 |
| Mar. 2 | 31.51 | June 2 | 30.28 | Aug. 29 | 30.94 | Dec. 2 | 34.87 |
| Apr. 1 | 30.70 | 30 | 31.09 | Sept. 30 | 31.29 | | |

5 (*777, p. 138; *817, p. 218; *840, p. 308; *845, p. 339; 886, 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 1947.

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; 1072, p. 213). E. J. Welch. At 03 E. Lexington Avenue, High Point, 80 feet north of street.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|----------|-------------|--------|-------------|
| Jan. 31 | 21.43 | May 2 | 20.87 | July 31 | 22.58 | Nov. 4 | 22.29 |
| Mar. 2 | 22.60 | June 2 | 22.35 | Aug. 29 | 22.69 | Dec. 2 | 21.61 |
| Apr. 1 | 21.72 | 30 | 22.46 | Sept. 30 | 21.69 | | |

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; 1072, p. 213). Welch Place. At 1301 E. Lexington Avenue, High Point, about 800 feet west of well 7.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|----------|-------------|--------|-------------|
| Jan. 31 | 26.35 | May 2 | 26.11 | July 31 | 27.70 | Nov. 4 | 29.17 |
| Mar. 2 | 26.09 | June 2 | 25.75 | Aug. 29 | 28.68 | Dec. 2 | 27.54 |
| Apr. 1 | 26.86 | 30 | 26.60 | Sept. 30 | 28.89 | | |

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. 127; 1017, p. 315; 1024, p. 191; 1072, p. 213). John Blair Estate. 1113 S. Tate Street, South High Point, 80 feet northeast of street.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|----------|-------------|--------|-------------|
| Jan. 31 | 32.13 | May 2 | 30.88 | July 31 | 31.32 | Nov. 4 | 31.92 |
| Mar. 2 | 31.76 | June 2 | 31.40 | Aug. 29 | 33.83 | Dec. 2 | 30.79 |
| Apr. 1 | 31.37 | 30 | 32.29 | Sept. 30 | 32.95 | | |

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; 1072, p. 213). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|----------|-------------|--------|-------------|
| Jan. 31 | 14.92 | May 2 | 13.60 | July 31 | 15.83 | Nov. 4 | 15.78 |
| Mar. 2 | 14.90 | June 2 | 14.13 | Aug. 29 | 16.49 | Dec. 2 | 14.49 |
| Apr. 1 | 14.29 | 30 | 15.05 | Sept. 30 | 15.33 | | |

15 (*777, p. 133; 817, p. 213; 840, p. 302; 845, p. 333; 886, p. 513; 907, p. 69; 937, p. 75; *945, p. 106). G. C. Robbins. About 0.5 mile south of High Point corporation limits, 110 feet west of U. S. Highway 311. No measurements made in 1947.

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; 1072, p. 213). 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, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|------|------|------|------|------|------|------|------|-------|------|------|------|
| 1 | 7.57 | 6.51 | 6.99 | 6.82 | 6.90 | .... | 7.97 | 7.82 | 8.68 | .... | 8.90 | 6.99 |
| 2 | 7.53 | 6.57 | 6.91 | 6.70 | .... | .... | 8.00 | 7.88 | 8.70 | .... | 8.93 | 7.00 |
| 3 | 7.40 | 6.56 | 7.00 | 6.89 | .... | .... | 8.04 | 7.90 | 8.75 | .... | 8.58 | 6.97 |
| 4 | 7.24 | 6.41 | 7.09 | 6.87 | .... | .... | 8.09 | 7.95 | 8.78 | .... | 8.85 | 6.98 |
| 5 | 7.26 | 6.53 | 7.10 | 6.84 | .... | .... | 8.10 | 7.99 | 8.80 | .... | 8.64 | 6.93 |
| 6 | 7.25 | 6.55 | 7.15 | 6.87 | .... | .... | 8.12 | 8.01 | 8.82 | .... | 8.71 | 7.04 |
| 7 | 7.24 | 6.62 | 7.17 | 6.93 | .... | .... | 8.12 | 8.05 | 8.86 | .... | 8.74 | 7.05 |
| 8 | 7.19 | 6.69 | 7.10 | 6.91 | .... | .... | 8.15 | 8.07 | 8.88 | .... | 8.43 | 6.98 |
| 9 | 7.20 | 6.74 | 7.18 | 6.95 | .... | .... | 8.12 | 8.10 | 8.90 | .... | 8.40 | 7.16 |
| 10 | 7.28 | 7.18 | 6.99 | 6.98 | .... | .... | 8.18 | 8.15 | 8.92 | .... | 8.47 | 7.13 |
| 11 | 7.25 | .... | 6.85 | 6.92 | .... | .... | 8.20 | 8.20 | 8.83 | .... | 7.97 | 7.21 |
| 12 | 7.00 | .... | 6.80 | 6.85 | .... | .... | 8.21 | 8.23 | 8.67 | .... | 7.19 | 7.24 |
| 13 | 6.89 | .... | 6.73 | 6.90 | .... | .... | 8.25 | 8.26 | 8.72 | .... | 7.52 | 7.24 |
| 14 | 6.57 | .... | 6.58 | 6.75 | .... | .... | 8.29 | 8.30 | 8.81 | .... | 7.55 | 7.29 |
| 15 | 6.50 | .... | 6.57 | 6.69 | .... | .... | 8.29 | 8.35 | 8.87 | 8.75 | 7.36 | 7.20 |
| 16 | 6.49 | .... | 6.58 | 6.62 | .... | 7.67 | 8.30 | 8.40 | 8.92 | 8.51 | 7.17 | 7.04 |
| 17 | 6.56 | .... | 6.60 | 6.70 | .... | .... | 8.31 | 8.40 | 8.97 | 8.55 | 7.24 | 7.24 |
| 18 | 6.57 | .... | 6.68 | 6.68 | .... | 7.81 | 8.33 | 8.41 | 8.99 | 8.58 | 7.24 | 7.20 |
| 19 | 6.43 | .... | 6.69 | 6.69 | 7.38 | 7.89 | 8.35 | 8.43 | 8.99 | 8.62 | 7.23 | 7.28 |
| 20 | 6.13 | .... | 6.61 | 6.68 | .... | 7.90 | 8.37 | 8.48 | 9.01 | 8.67 | 7.21 | 7.31 |
| 21 | 6.30 | 6.67 | 6.60 | 6.67 | .... | 7.94 | 8.05 | 8.47 | 9.03 | 8.71 | 7.23 | 7.27 |
| 22 | 6.38 | 6.75 | 6.71 | 6.82 | .... | 7.99 | 7.00 | 8.46 | 9.05 | 8.75 | 7.17 | 7.30 |
| 23 | 6.32 | 6.77 | 6.70 | 6.82 | .... | 8.00 | 7.40 | 8.41 | 9.10 | 8.79 | 6.96 | 7.30 |
| 24 | 6.29 | 6.86 | 6.58 | 6.78 | .... | 8.01 | 7.52 | 8.50 | 9.06 | 8.82 | 6.78 | 7.40 |
| 25 | 6.30 | 6.90 | 6.62 | 6.78 | .... | 8.05 | 7.56 | 8.51 | 8.38 | 8.86 | 6.85 | 7.37 |
| 26 | 6.29 | 6.91 | 6.78 | 6.80 | .... | 7.90 | 7.60 | 8.53 | 8.53 | 8.87 | 6.89 | 7.31 |
| 27 | 6.39 | 6.96 | 6.80 | .... | .... | 7.77 | 7.60 | 8.56 | 8.66 | 8.86 | 6.94 | 7.38 |
| 28 | 6.40 | 6.98 | 6.79 | .... | .... | 7.83 | 7.61 | 8.58 | 8.70 | 8.83 | 6.96 | 7.42 |
| 29 | 6.40 | .... | 6.80 | .... | .... | 7.88 | 7.69 | 8.61 | 8.72 | 8.68 | 7.00 | 7.49 |
| 30 | 6.37 | .... | 6.81 | 6.90 | .... | 7.92 | 7.75 | 8.62 | 8.75 | 8.79 | 6.99 | 7.49 |
| 31 | 6.43 | .... | 6.87 | .... | .... | .... | 7.79 | 8.66 | .... | 8.84 | .... | 7.50 |

150 (*1072, p. 214). Mrs. Roxy Burnett. At Hobgood, 1 block east of State Highway 122 and half a block south of State Highway 125. Measurements discontinued Aug. 30.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|--------|-------------|
| Jan. 29 | 18.68 | Mar. 30 | 18.94 | May 31 | 18.90 | Aug. 1 | 19.35 |
| Feb. 28 | 19.19 | Apr. 30 | 18.75 | June 28 | 19.24 | | |

Hertford County

13. Town of Winton. At North edge of Winton, about 150 feet south of water tank. Drilled gravel-walled well, diameter of hole 24 inches, diameter of casing 8 inches, depth 314 feet, in Cretaceous sand. Measuring point, top of 8-inch casing, 2.00 feet above land-surface datum. Water levels, in feet below land-surface datum, 1947: Feb. 28, 31.05; Dec. 29, 30.07.

14 (*1072, p. 214). Town of Winton. At Winton, 100 feet east of State Highway 97 and 750 feet south of intersection with U. S. Highway 158.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 27.95 | Apr. 30 | 27.69 | Aug. 1 | 27.69 | Nov. 1 | 27.91 |
| Feb. 28 | 27.95 | May 31 | 27.27 | 30 | 27.76 | 24 | 27.62 |
| Mar. 30 | 27.86 | June 28 | 27.62 | Sept. 27 | 27.85 | Dec. 29 | 27.73 |

Jones County

1 (*945, p. 107; *987, p. 128; 1017, p. 316; 1024, p. 192; 1072, p. 214). Geo. E. Weeks. At southeastern edge of Maysville.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|--------|-----|--------|-----|---------|-----|--------|-----|
| Jan. 3 | 3.1 | Apr. 4 | 1.7 | July 12 | 7.8 | Oct. 7 | 3.2 |
| 7 | 1.5 | 8 | 1.8 | 15 | 8.1 | 10 | 2.9 |
| 10 | 1.8 | 11 | 2.2 | 18 | 7.6 | 14 | 1.2 |
| 14 | 1.1 | 22 | 2.1 | 22 | 7.0 | 17 | 1.4 |
| 17 | 1.3 | 25 | 2.5 | 25 | 6.7 | 21 | 2.9 |
| 21 | 1.4 | 29 | 3.5 | 29 | 5.2 | 24 | 2.5 |
| 24 | 1.7 | May 3 | 4.0 | Aug. 1 | 5.5 | 28 | 3.1 |
| 27 | 2.7 | 6 | 4.5 | 5 | 6.0 | 31 | 3.5 |
| 30 | 2.4 | 9 | 4.9 | 8 | 6.2 | Nov. 4 | 4.2 |
| Feb. 4 | 3.5 | 13 | 5.5 | 12 | 6.3 | 7 | 5.1 |
| 7 | 3.7 | 16 | 5.9 | 15 | 6.7 | 11 | 3.7 |
| 11 | 4.5 | 20 | 6.3 | 18 | 7.0 | 14 | 1.4 |
| 14 | 4.8 | 23 | 6.6 | 22 | 7.4 | 18 | 2.5 |
| 18 | 5.0 | 27 | 6.7 | 26 | 7.1 | 21 | 1.2 |
| 21 | 5.2 | 30 | 7.0 | 29 | 7.5 | 25 | 1.2 |
| 25 | 6.1 | June 3 | 7.1 | Sept. 2 | 6.5 | 28 | 1.6 |
| 28 | 5.8 | 6 | 6.6 | 5 | 5.2 | Dec. 2 | 3.0 |
| Mar. 4 | 6.0 | 10 | 7.0 | 9 | 1.5 | 5 | 3.3 |
| 7 | 6.2 | 13 | 6.6 | 12 | 1.3 | 9 | 2.4 |
| 11 | 5.9 | 17 | 7.0 | 16 | 1.3 | 12 | 1.6 |
| 14 | 1.0 | 20 | 7.4 | 19 | 1.2 | 16 | 1.8 |
| 18 | 2.0 | 24 | 7.5 | 23 | 1.0 | 19 | 1.5 |
| 21 | 2.5 | 27 | 7.8 | 26 | 1.1 | 23 | 1.2 |
| 25 | 2.9 | July 1 | 8.0 | 30 | 2.2 | 26 | 1.4 |
| 28 | 2.6 | 4 | 7.6 | Oct. 2 | 2.5 | 30 | 1.6 |
| Apr. 1 | 1.3 | 8 | 7.5 | | | | |

Lenoir County

4. City of Kinston well 1. At water and light plant, 0.7 mile west of center of town, on southeast corner of lot, about 20 feet west of fence, in red brick pump house. Drilled gravel-walled well; diameter of hole 18 inches, diameter of casing 8 inches, depth 375 feet. Equipped with turbine pump. Black Creek formation. Measuring point, top of 4-inch coupling on east side of pump base, 0.70 foot above land-surface datum.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|--------|-------|---------|-----|---------|-----|
| Jan. 23 | 26.50 | May 1 | 29.29 | Aug. 2 | (a) | Nov. 2 | (a) |
| Mar. 1 | 23.27 | June 1 | 30.80 | Sept. 1 | (a) | 26 | (a) |
| 31 | 27.52 | 29 | 22.90 | 28 | (a) | Dec. 31 | (a) |

a Pumping.

4a. City of Kinston well 2. At water and light plant, 0.7 mile west of center of town, on southwest corner of lot near river, about 300 feet west of well 1, in galvanized sheet-iron pump house. Drilled gravel-walled well, diameter of hole 18 inches, diameter of casing 8 inches, depth 370 feet. Equipped with turbine pump. Black Creek formation. Measuring point, top of air-line collar, 0.8 foot above land-surface datum.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Jan. 23 | a 45.50 | May 1 | a 37.83 | Aug. 2 | 30.33 | Nov. 2 | 25.87 |
| Mar. 1 | a 37.91 | June 1 | a 37.53 | Sept. 1 | 29.67 | 26 | 27.69 |
| 31 | a 37.30 | 29 | 21.46 | 28 | 27.90 | Dec. 31 | 30.06 |

a Pumping.

6. Ernest L. Johnson. About 4 miles northwest of Kinston, 0.75 mile southwest of airport, about 75 feet east of barn, in square concrete-block shelter with wood and metal cover. Drilled well, diameter 4 inches, depth 84 feet. Equipped with jet pump. Ends in Peedee formation (?). Measuring point, top of 4-inch casing, 0.5 foot above land-surface datum.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Jan. 24 | 10.88 | May 1 | 10.99 | Aug. 2 | 12.13 | Nov. 2 | 11.32 |
| Mar. 1 | 10.61 | June 1 | 11.26 | Sept. 1 | 11.15 | 26 | 10.28 |
| 31 | 10.78 | 29 | 11.89 | 28 | 11.38 | Dec. 31 | 10.26 |

6a. Ernest L. Johnson. About 75 feet west of well 6, about 40 feet west of barn, on edge of terrace. Dug well, lined with clay tile, diameter 24 inches, depth 12 feet. Ends in terrace sand. Measuring point, edge of 2-inch round hole in concrete cover, 1.8 feet above land-surface datum.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Mar. 1 | 8.17 | June 1 | 8.48 | Sept. 1 | 6.76 | Nov. 26 | 6.49 |
| 31 | 7.70 | 29 | 7.52 | 28 | 6.74 | Dec. 31 | 7.24 |
| May 1 | 7.30 | Aug. 2 | 7.15 | Nov. 2 | 7.31 | | |

27. Caswell Training School. 2 miles west of intersection of Routes 70 and 258, 0.1 mile north on east side of road, (Bull road), 30 feet south of round concrete reservoir, in square red brick pump house. Drilled well, diameter 6 inches, depth 600 feet. Equipped with turbine pump. Tuscaloosa formation. Measuring point, edge of 1-inch hole in base of pump, 2.30 feet above land-surface datum.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Mar. 1 | a 32.20 | June 1 | a 32.17 | Sept. 1 | a 36.35 | Nov. 26 | a 36.66 |
| 31 | a 32.06 | 29 | a 32.02 | 28 | a 38.08 | Dec. 31 | 20.85 |
| May 1 | a 31.79 | Aug. 2 | 20.91 | Nov. 2 | a 37.17 | | |

a Pumping.

31. City of Kinston (?). On south side of U. S. Highway 70, about 0.7 mile west of Caswell Training School and 500 feet east of city's red brick pump house, on shoulder of highway, with concrete slab around well. Drilled well, diameter $1\frac{1}{2}$ inches, depth 300-400 (?) feet. Flowing well, ending in Black Creek formation. Measuring point, top edge of $1\frac{1}{2}$ -inch elbow, 0.9 foot above land-surface datum.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Mar. 1 | 2.25 | June 1 | 1.94 | Sept. 28 | 1.42 | Nov. 26 | 2.08 |
| 31 | 2.04 | Aug. 2 | 1.13 | Nov. 2 | .79 | Dec. 31 | 1.95 |
| May 1 | 2.34 | Sept. 1 | 1.92 | | | | |

Martin County

2c (*1072, p. 215). Town of Williamston. At Williamston, 20 feet southeast of round concrete reservoir at power plant. Water levels, in feet below land-surface datum, 1947: Feb. 28, 48.16; Apr. 30, 43.80; Dec. 30, 45.84.

Moore County

1 (*1017, p. 317; 1024, p. 193; 1072, p. 215). Pure Oil Station. Formerly owned by the Citizens Bank & Trust Co. At Pinebluff.

Mean daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 38.33 | 35.74 | ..... | 39.44 | 34.22 | 37.31 | 39.02 | 41.28 | 42.32 | 42.46 | 41.74 | 34.14 |
| 2 | 38.40 | 36.06 | ..... | 39.49 | 34.26 | 37.34 | 39.11 | 41.34 | 42.32 | 42.46 | 41.71 | 34.23 |
| 3 | 38.46 | 36.33 | ..... | 39.51 | 34.35 | 37.37 | 39.22 | 41.40 | 42.31 | 42.46 | 41.67 | 34.33 |
| 4 | 38.53 | 36.52 | ..... | 38.19 | 34.47 | 37.42 | 39.36 | 41.46 | 42.32 | 42.46 | 41.63 | 34.44 |
| 5 | 38.59 | 36.73 | ..... | 37.12 | 34.58 | 37.48 | 39.48 | 41.51 | 42.32 | 42.46 | 41.60 | 34.54 |
| 6 | 38.65 | 36.94 | ..... | 36.44 | 34.72 | 37.53 | 39.62 | 41.56 | 42.33 | 42.46 | 41.56 | 34.63 |
| 7 | 38.72 | 37.16 | ..... | 36.13 | 34.84 | 37.56 | 39.75 | 41.62 | 42.34 | 42.46 | 41.54 | 34.78 |
| 8 | 38.77 | 37.34 | ..... | 36.04 | 35.00 | 37.60 | 39.88 | 41.67 | 42.34 | 42.46 | 41.50 | 34.90 |
| 9 | 38.83 | 37.56 | ..... | 36.04 | 35.17 | 37.64 | 40.03 | 41.73 | 42.35 | 42.45 | 41.48 | 35.04 |
| 10 | 38.89 | 37.76 | ..... | 36.15 | 35.34 | 37.70 | 40.11 | 41.79 | 42.36 | 42.44 | 41.47 | 35.22 |
| 11 | 38.95 | 37.95 | ..... | 36.29 | 35.50 | 37.75 | 40.21 | 41.85 | 42.36 | 42.43 | 41.44 | 35.34 |
| 12 | 38.99 | 38.12 | ..... | 36.44 | 35.66 | 37.81 | 40.29 | 41.89 | 42.37 | 42.41 | 39.97 | 35.60 |
| 13 | 39.06 | 38.26 | ..... | 36.66 | 35.78 | 37.86 | 40.36 | 41.93 | 42.37 | 42.38 | 37.63 | 35.64 |
| 14 | 39.12 | 38.38 | ..... | 36.80 | 35.88 | 37.89 | 40.42 | 41.96 | 42.37 | 42.35 | 36.30 | 35.78 |
| 15 | 39.20 | 38.49 | ..... | 32.71 | 36.02 | 37.90 | 40.47 | 42.00 | 42.37 | 42.33 | 35.46 | 35.90 |
| 16 | 39.15 | 38.58 | ..... | 32.54 | 36.13 | 37.83 | 40.51 | 42.06 | 42.38 | 42.30 | 33.88 | 35.97 |
| 17 | 38.72 | 38.69 | ..... | 32.80 | 36.23 | 37.97 | 40.54 | 42.11 | 42.38 | 42.27 | 33.56 | 36.10 |
| 18 | 38.08 | 38.80 | ..... | 33.04 | 36.32 | 38.04 | 40.58 | 42.14 | 42.41 | 42.23 | 33.72 | 36.25 |
| 19 | ..... | ..... | ..... | 33.16 | 36.42 | 38.10 | 40.62 | 42.19 | 42.42 | 42.19 | 33.89 | 36.35 |
| 20 | ..... | ..... | ..... | 33.26 | 36.51 | 38.16 | 40.65 | 42.23 | 42.42 | 42.16 | 34.02 | 36.45 |
| 21 | ..... | ..... | ..... | 33.38 | 36.60 | 38.20 | 40.68 | 42.26 | 42.42 | 42.12 | 35.02 | 36.53 |
| 22 | ..... | ..... | ..... | 33.59 | 36.69 | 38.28 | 40.72 | 42.28 | 42.42 | 42.10 | 33.90 | 36.61 |
| 23 | ..... | ..... | ..... | 33.68 | 36.78 | 38.35 | 40.77 | 42.29 | 42.43 | 42.07 | 33.90 | 36.68 |
| 24 | ..... | ..... | ..... | 33.72 | 36.86 | 38.40 | 40.84 | 42.30 | 42.43 | 42.04 | 33.92 | 36.75 |
| 25 | ..... | ..... | ..... | 33.78 | 36.94 | 38.52 | 40.91 | 42.31 | 42.43 | 41.99 | 33.68 | 36.80 |
| 26 | ..... | ..... | 39.32 | 33.86 | 37.00 | 38.60 | 41.00 | 42.31 | 42.44 | 41.94 | 33.62 | 36.82 |
| 27 | ..... | ..... | 39.29 | 33.92 | 37.05 | 38.68 | 41.03 | 42.31 | 42.45 | 41.91 | 33.75 | 36.84 |
| 28 | 34.56 | ..... | 39.26 | 34.00 | 37.11 | 38.75 | 41.08 | 42.31 | 42.46 | 41.87 | 33.88 | 36.86 |
| 29 | 34.83 | ..... | 39.27 | 34.11 | 37.15 | 38.84 | 41.13 | 42.31 | 42.46 | 41.85 | 33.98 | 36.89 |
| 30 | 35.11 | ..... | 39.30 | 34.16 | 37.19 | 38.92 | 41.18 | 42.32 | 42.46 | 41.80 | 34.05 | 36.93 |
| 31 | 35.41 | ..... | 39.36 | ..... | 37.25 | ..... | 41.22 | 42.32 | ..... | 41.78 | ..... | 36.96 |

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; 1072, p. 216). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|--------|-------------|---------|-------------|
| Jan. 1 | 7.78 | Mar. 12 | 7.14 | May 24 | 9.31 | Aug. 2 | 10.35 |
| 4 | 7.92 | 15 | 6.21 | 28 | 9.50 | 6 | 10.41 |
| 8 | 6.87 | 19 | 6.41 | 31 | 9.78 | 9 | 10.43 |
| 11 | 6.69 | 22 | 6.28 | June 4 | 10.16 | 13 | 10.67 |
| 15 | 1.85 | 26 | 7.13 | 7 | 10.34 | 16 | 10.89 |
| 18 | 2.09 | 29 | 6.95 | 11 | 10.50 | 20 | 11.07 |
| 22 | 2.14 | Apr. 2 | 7.41 | 14 | 10.60 | 23 | 11.25 |
| 25 | 2.22 | 5 | 7.75 | 18 | 10.70 | 27 | 11.50 |
| 29 | 3.29 | 9 | 8.03 | 21 | 10.78 | 30 | 11.70 |
| Feb. 1 | 3.52 | 12 | 8.17 | 25 | 11.02 | Sept. 3 | 11.60 |
| 5 | 4.54 | 16 | 6.05 | 28 | 11.14 | 6 | 12.05 |
| 8 | 5.23 | 19 | 5.73 | July 2 | 11.21 | 10 | 11.28 |
| 12 | 6.65 | 23 | 6.18 | 5 | 11.34 | 13 | 11.29 |
| 15 | 6.95 | 26 | 6.55 | 9 | 11.23 | 17 | 10.96 |
| 19 | 7.38 | 30 | 6.87 | 12 | 11.30 | 20 | 10.75 |
| 22 | 7.52 | May 3 | 7.45 | 16 | 11.27 | 24 | 10.35 |
| 26 | 7.87 | 10 | 8.23 | 19 | 11.16 | 27 | 7.20 |
| Mar. 1 | 8.13 | 14 | 7.62 | 23 | 10.78 | Oct. 1 | 7.55 |
| 5 | 6.36 | 17 | 8.95 | 26 | 10.27 | 4 | 8.72 |
| 8 | 8.08 | 21 | 9.14 | 30 | 10.12 | 8 | 7.78 |

1--Continued.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|--------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Oct. 11 | 7.30 | Nov. 1 | 7.47 | Nov. 22 | 1.28 | Dec. 13 | 4.24 |
| 15 | 6.77 | 5 | 7.42 | 26 | 1.50 | 17 | 3.58 |
| 18 | 6.63 | 8 | 7.47 | 29 | 1.77 | 20 | 3.73 |
| 22 | 7.03 | 12 | 2.66 | Dec. 3 | 2.27 | 24 | 4.56 |
| 25 | 7.17 | 15 | 1.39 | 6 | 2.80 | 27 | 4.99 |
| 29 | 7.42 | 19 | .51 | 10 | 3.57 | | |

Northampton County

40 (*1072, p. 216). 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.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------|---------|-------|----------|-------|---------|-------|
| Jan. 29 | 33.10 | Apr. 30 | 33.18 | Aug. 1 | 33.60 | Nov. 1 | 33.98 |
| Feb. 28 | 33.09 | May 31 | 33.68 | 30 | 33.59 | 24 | 33.56 |
| Mar. 30 | 33.05 | June 28 | 33.98 | Sept. 27 | 34.18 | Dec. 29 | 33.26 |

82 (*1072, p. 216). 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. Measurements discontinued Nov. 24.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------|---------|-------|--------|-------|----------|-------|
| Jan. 29 | 12.84 | Apr. 30 | 12.56 | Aug. 1 | 13.32 | Sept. 27 | 13.52 |
| Feb. 28 | 12.67 | May 31 | 12.82 | 30 | 13.45 | Nov. 1 | 13.45 |
| Mar. 30 | 12.58 | June 28 | 13.00 | | | | |

Onslow County

1 (*945, p. 108; 987, p. 129). New River well. Balus J. Holleman. At Jacksonville, in front of Riverview Hotel, 40 feet south of U. S. Highway 17 and 400 feet east of New River. No measurements made in 1947.

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; 1072, p. 217). McCauley well. At Chapel Hill, on west side of Chi Psi fraternity house on Cameron Street.

Water level, in feet below land-surface datum, 1947

| (From recorder charts) | | | | | | | | | | | | |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
| 1 | 40.69 | 40.17 | 39.98 | 39.78 | 39.54 | 39.81 | 40.37 | 41.09 | 41.81 | 42.45 | 42.88 | 42.76 |
| 2 | 40.74 | 40.16 | 39.90 | 39.68 | 39.51 | 39.78 | 40.40 | 41.13 | 41.82 | 42.46 | 42.88 | 42.74 |
| 3 | 40.71 | 40.16 | 39.89 | 39.73 | 39.52 | 39.78 | 40.43 | 41.16 | 41.87 | 42.47 | 42.84 | 42.73 |
| 4 | 40.65 | 40.02 | 39.98 | 39.78 | 39.53 | 39.86 | 40.46 | 41.18 | 41.89 | 42.49 | 42.88 | 42.72 |
| 5 | 40.58 | 40.03 | 39.99 | 39.73 | 39.52 | 39.90 | 40.48 | 41.20 | 41.90 | 42.50 | 42.89 | 42.69 |
| 6 | 40.55 | 40.04 | 39.99 | 39.72 | 39.57 | 39.88 | 40.50 | 41.23 | 41.93 | 42.52 | 42.82 | 42.67 |
| 7 | 41.21 | 39.98 | 40.00 | 39.75 | 39.53 | 39.86 | 40.50 | 41.25 | 41.96 | 42.52 | 42.84 | 42.69 |
| 8 | 41.18 | 39.97 | 39.93 | 39.74 | 39.60 | 39.86 | 40.53 | 41.27 | 42.01 | 42.53 | 42.91 | 42.86 |
| 9 | 41.19 | 39.94 | 39.99 | 39.68 | 39.63 | 39.88 | 40.56 | 41.28 | 42.02 | 42.55 | 42.98 | 42.71 |
| 10 | 41.25 | 40.07 | 40.00 | 39.77 | 39.66 | .... | 40.59 | 41.32 | 42.04 | 42.57 | .... | 42.72 |
| 11 | 41.25 | 40.10 | 39.98 | 39.72 | 39.67 | .... | 40.61 | 41.37 | 42.06 | 42.60 | .... | 42.70 |
| 12 | 41.19 | 40.10 | 39.99 | 39.69 | 39.63 | .... | 40.63 | 41.37 | 42.08 | 42.62 | .... | 42.72 |
| 13 | 41.23 | 40.09 | 39.95 | 39.72 | 39.57 | .... | 40.65 | 41.37 | 42.10 | 42.62 | .... | 42.73 |
| 14 | 41.13 | 40.04 | 39.81 | 39.67 | 39.55 | .... | 40.66 | 41.38 | 42.12 | 42.62 | .... | 42.73 |
| 15 | 41.05 | 39.97 | 39.82 | 39.65 | 39.61 | .... | .... | 41.41 | 42.15 | 42.64 | .... | 42.71 |
| 16 | 41.01 | 39.93 | 39.79 | 39.59 | 39.64 | 40.10 | .... | 41.45 | 42.18 | 42.67 | .... | 42.69 |
| 17 | 40.99 | 39.97 | 39.80 | 39.61 | 39.62 | 40.12 | .... | 41.47 | 42.23 | 42.68 | 42.84 | 42.76 |
| 18 | 41.00 | 39.97 | 39.84 | 39.63 | 39.61 | 40.15 | .... | 41.50 | 42.25 | 42.67 | 42.85 | 42.76 |
| 19 | 40.92 | 39.98 | 39.86 | 39.65 | 39.61 | 40.18 | .... | 41.51 | 42.25 | 42.68 | 42.83 | 42.76 |
| 20 | 40.68 | 39.99 | 39.78 | 39.60 | 39.61 | 40.21 | .... | 41.53 | 42.25 | 42.72 | 42.79 | 42.78 |
| 21 | 40.59 | 39.89 | 39.76 | 39.58 | 39.63 | 40.22 | 40.85 | 41.55 | 42.27 | 42.73 | 42.79 | 42.75 |
| 22 | 40.59 | 39.93 | 39.79 | 39.68 | 39.66 | 40.15 | 40.87 | 41.56 | 42.29 | 42.74 | 42.78 | 42.76 |

1--Continued.

Water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 23 | 40.54 | 39.91 | 39.81 | 39.69 | 39.72 | 40.27 | 40.93 | 41.58 | 42.34 | 42.76 | 42.72 | 42.73 |
| 24 | 40.47 | 39.90 | 39.71 | 39.63 | 39.74 | 40.26 | 40.98 | 41.61 | 42.32 | 42.78 | 42.68 | 42.78 |
| 25 | 40.40 | 39.96 | 39.70 | 39.58 | 39.73 | 40.29 | 40.99 | 41.65 | 42.29 | 42.81 | 42.69 | 42.78 |
| 26 | 40.33 | 39.97 | 39.79 | 39.61 | 39.71 | 40.30 | 41.00 | 41.66 | 42.34 | 42.81 | 42.69 | 42.74 |
| 27 | 40.26 | 39.98 | 39.84 | 39.60 | 39.71 | 40.30 | 41.00 | 41.69 | 42.39 | 42.81 | 42.73 | 42.75 |
| 28 | 40.26 | 39.99 | 39.77 | 39.62 | 39.72 | 40.32 | 41.00 | 41.71 | 42.40 | 42.80 | 42.74 | 42.76 |
| 29 | 40.22 | | 39.79 | 39.62 | 39.70 | 40.35 | 41.02 | 41.74 | 42.40 | 42.81 | 42.75 | 42.81 |
| 30 | 40.18 | | 39.78 | 39.57 | 39.72 | 40.37 | 41.06 | 41.77 | 42.40 | 42.83 | 42.74 | 42.80 |
| 31 | 40.12 | | 39.81 | | 39.81 | | 41.07 | 41.78 | | 42.85 | | 42.80 |

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; 1072, p. 217). 3 miles west of Elizabeth City and 1,000 feet north of city well fields.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 1.39 | Apr. 30 | 2.05 | Aug. 1 | 0.47 | Nov. 1 | 0.50 |
| Feb. 28 | 2.26 | May 31 | 3.18 | 30 | 4.24 | 24 | .32 |
| Mar. 30 | 1.32 | June 28 | 4.24 | Sept. 27 | 1.10 | Dec. 30 | .80 |

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; 1072, p. 218). 3 miles west of Elizabeth City in city well field, about 20 feet west of pump house.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 4.49 | Apr. 30 | 2.50 | Aug. 1 | 5.25 | Nov. 1 | 7.32 |
| Feb. 28 | 7.10 | May 31 | 4.68 | 30 | 6.85 | 24 | 3.68 |
| Mar. 31 | 2.59 | June 28 | 7.62 | Sept. 27 | 6.56 | Dec. 30 | 6.56 |

200 (*1072, p. 218). City of Elizabeth City. At water plant, 150 feet east of treatment plant.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|---------|-------------|
| Jan. 29 | 19.67 | Apr. 30 | 22.81 | Aug. 1 | 24.37 | Nov. 1 | 20.59 |
| Feb. 28 | 21.52 | May 31 | 33.02 | 30 | 33.05 | 24 | 17.65 |
| Mar. 31 | 27.89 | June 28 | 34.36 | Sept. 27 | 33.36 | Dec. 30 | 16.67 |

Perquimans County

2 (*1017, p. 320; 1024, p. 196; 1072, p. 218). Naval Auxiliary Air Station well 2. In Harvey Point. Water level, in feet below land-surface datum, 1947: Dec. 30, 2.96.

Randolph County

9 (*817, p. 218; *840, p. 308; 845, p. 339; 886, p. 520; 970, p. 79; 937, p. 82; *945, p. 111; 987, p. 131). W. C. Warner. About 2 miles southwest of Climax. No measurements made in 1947.

9B (*817, p. 218; *840, p. 308; 845, p. 339; 886, p. 520; 907, p. 80; 937, p. 82; *945, p. 111; 987, p. 131). W. C. Warner. Location same as well 9. No measurements made in 1947.

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; 987, p. 131). W. F. Beason. Near Cedar Square Church, 6 miles northwest of Randleman. No measurements made in 1947.

11 (*817, p. 218; *840, p. 308; 845, p. 339; 886, p. 520; 907, p. 80; 937, p. 83; *945, p. 111; 987, p. 131). Emery Taylor. Near Colettranes Mill, about 7 miles northwest of Randleman. No measurements made in 1947.

20 (*777, p. 138; *817, p. 218; *840, p. 310; 845, p. 340; 886, p. 521; 907, p. 80; 937, p. 83; *945, p. 111; *987, p. 131; 1017, p. 320; 1024, p. 197; 1072, p. 218). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|----------|-------------|--------|-------------|
| Jan. 31 | 23.93 | May 2 | 22.70 | July 31 | 23.86 | Nov. 3 | 25.11 |
| Mar. 2 | 23.56 | June 2 | 22.63 | Aug. 29 | 24.61 | Dec. 2 | 24.41 |
| Apr. 1 | 23.17 | 30 | 23.07 | Sept. 30 | 25.05 | | |

21 (*777, p. 138; *817, p. 218; *840, p. 310; 845, p. 340; 886, p. 552; 907, p. 81; 937, p. 83; *945, p. 113; 987, p. 132). J. W. Young. About 2 miles west of Randleman and 1 mile north of U. S. Highway 311. No measurements made in 1947.

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; 987, p. 132). Mrs. Lonnie Pugh. At New Salem, 40 feet north of road. No measurements made in 1947.

25 (*777, p. 138; *817, p. 219; *840, p. 310; 845, p. 340; 886, 522; 907, p. 81; 937, p. 83; *945, p. 112; *987, p. 132; 1017, p. 321; 1024, p. 197; 1072, p. 219). J. S. White. 1 mile southwest of Trinity and 120 feet southeast of State Highway 62.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|----------|-------------|---------|-------------|
| Jan. 31 | 27.57 | May 2 | 26.07 | July 31 | 27.96 | Nov. 11 | 28.27 |
| Mar. 2 | 27.43 | June 2 | 26.63 | Aug. 29 | 28.55 | Dec. 2 | 27.14 |
| Apr. 1 | 26.86 | 30 | 27.30 | Sept. 30 | 27.76 | | |

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; 1072, p. 219). Walter Lambeth. About 3 miles southwest of Trinity, 550 feet north of State Highway 62. Well destroyed; measurements discontinued after Jan. 31. Water level, in feet below land-surface datum, 1947: Jan. 31, 16.19.

Surry County

1 (*845, p. 337; 886, p. 517; 907, p. 73; *945, p. 112; *987, p. 132; 1017, p. 321; 1024, p. 197; 1072, p. 219). A. D. Terrell. 4 miles south of Dobson, 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 2 | 42.12 | Mar. 16 | 43.45 | Aug. 12 | 42.91 | Oct. 20 | 42.11 |
| 11 | 42.21 | 23 | 43.61 | 22 | 42.68 | Nov. 2 | 42.18 |
| 17 | 42.43 | 30 | 43.69 | Sept. 1 | 42.48 | 11 | 42.20 |
| 26 | 42.58 | Apr. 7 | 43.70 | 10 | 42.34 | 15 | 42.25 |
| Feb. 3 | 42.81 | 14 | 43.92 | 16 | 42.26 | 24 | 42.35 |
| 11 | 42.99 | June 30 | 43.70 | 24 | 42.12 | Dec. 5 | 42.59 |
| 21 | 43.05 | July 7 | 43.60 | Oct. 2 | 42.18 | 15 | 42.72 |
| 28 | 43.25 | 20 | 43.38 | 13 | 42.05 | 26 | 42.86 |
| Mar. 9 | 43.55 | 30 | 43.18 | | | | |

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; 1072, p. 219). Baldwin well. Near Blantyre, about 200 yards west of depot.

1--Continued.

Water level, in feet below land-surface datum, 1947

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 32.78 | 31.85 | 30.52 | 29.94 | 29.41 | 29.28 | 30.42 | 31.70 | 33.01 | 34.56 | 35.36 | 34.75 |
| 2 | 32.76 | 31.81 | 30.47 | 29.88 | 29.37 | 29.29 | 30.42 | 31.74 | 33.04 | 34.58 | 35.33 | 34.70 |
| 3 | 32.74 | 31.73 | 30.45 | 29.87 | 29.35 | 29.30 | 30.47 | 31.79 | 33.11 | 34.41 | 35.21 | 34.66 |
| 4 | 32.71 | 31.70 | 30.43 | 29.88 | 29.33 | 29.34 | 30.53 | 31.82 | 33.12 | 34.42 | 35.24 | 34.62 |
| 5 | 32.69 | 31.67 | 30.42 | 29.86 | 29.32 | 29.36 | 30.53 | 31.87 | 33.21 | 34.47 | 35.30 | 34.55 |
| 6 | 32.67 | 31.64 | 30.39 | 29.84 | 29.31 | 29.39 | 30.61 | 31.82 | 33.24 | 34.51 | 35.34 | 34.54 |
| 7 | 32.66 | 31.55 | 30.36 | 29.82 | 29.30 | 29.41 | 30.64 | 31.96 | 33.30 | 34.55 | 35.35 | 34.48 |
| 8 | 32.63 | 31.43 | 30.32 | 29.80 | 29.29 | 29.41 | 30.69 | 31.99 | 33.34 | 34.61 | 35.37 | 34.39 |
| 9 | 32.63 | 31.39 | 30.31 | 29.78 | 29.29 | 29.46 | 30.70 | 32.08 | 33.39 | 34.64 | 35.38 | 34.35 |
| 10 | 32.63 | 31.35 | 30.31 | 29.79 | 29.29 | 29.49 | 30.78 | 32.11 | 33.42 | 34.67 | 35.41 | 34.29 |
| 11 | 32.59 | 31.32 | 30.30 | 29.75 | 29.29 | 29.41 | 30.85 | 32.17 | 33.45 | 34.71 | 35.38 | 34.25 |
| 12 | 32.57 | 31.28 | 30.29 | 29.73 | 29.25 | 29.59 | 30.87 | 32.20 | 33.50 | 34.78 | 35.39 | 34.20 |
| 13 | 32.55 | 31.22 | 30.26 | 29.73 | 29.24 | 29.59 | 30.90 | 32.23 | 33.52 | 34.80 | 35.39 | 34.15 |
| 14 | 32.52 | 31.17 | 30.19 | 29.70 | 29.22 | 29.59 | 30.95 | 32.28 | 33.57 | 34.84 | 35.39 | 34.11 |
| 15 | 32.46 | 31.09 | 30.19 | 29.67 | 29.20 | 29.67 | 30.97 | 32.30 | 33.61 | 34.88 | 35.33 | 34.02 |
| 16 | 32.43 | 31.03 | 30.16 | 29.65 | 29.20 | 29.70 | 31.09 | 32.35 | 33.70 | 34.92 | 35.33 | 33.97 |
| 17 | 32.42 | 30.98 | 30.14 | 29.59 | 29.19 | 29.70 | 31.05 | 32.41 | 33.73 | 34.94 | 35.31 | 33.95 |
| 18 | 32.42 | 30.94 | 30.14 | 29.62 | 29.18 | 29.72 | 31.10 | 32.46 | 33.78 | 34.98 | 35.30 | 33.91 |
| 19 | 32.19 | 30.89 | 30.13 | 29.61 | 29.17 | 29.75 | 31.19 | 32.48 | 33.80 | 35.01 | 35.26 | 33.87 |
| 20 | 32.09 | 30.82 | 30.10 | 29.58 | 29.15 | 29.82 | 31.18 | 32.53 | 33.83 | 35.05 | 35.25 | 33.84 |
| 21 | 32.08 | 30.79 | 30.09 | 29.56 | 29.14 | 29.94 | 31.22 | 32.58 | 33.88 | 35.09 | 35.20 | 33.80 |
| 22 | 32.12 | 30.77 | 30.08 | 29.58 | 29.14 | 29.99 | 31.38 | 32.63 | 33.92 | 35.12 | 35.17 | 33.75 |
| 23 | 32.12 | 30.73 | 30.08 | 29.58 | 29.18 | 30.04 | 31.32 | 32.68 | 33.95 | 35.14 | 35.14 | 33.71 |
| 24 | 32.10 | 30.67 | 30.08 | 29.58 | 29.19 | 30.08 | 31.50 | 32.71 | 33.99 | 35.18 | 35.08 | 33.68 |
| 25 | 32.07 | 30.66 | 30.01 | 29.56 | 29.17 | 30.12 | 31.44 | 32.79 | 34.01 | 35.22 | 35.03 | 33.64 |
| 26 | 32.04 | 30.63 | 30.01 | 29.56 | 29.19 | 30.15 | 31.48 | 32.83 | 34.10 | 35.24 | 34.99 | 33.62 |
| 27 | 32.02 | 30.58 | 30.02 | 29.54 | 29.19 | 30.30 | 31.51 | 32.85 | 34.13 | 35.25 | 34.94 | 33.56 |
| 28 | 31.96 | 30.56 | 30.01 | 29.51 | 29.19 | 30.23 | 31.53 | 32.88 | 34.18 | 35.27 | 34.90 | 33.52 |
| 29 | 31.93 | | 29.99 | 29.46 | 29.19 | 30.28 | 31.52 | 32.90 | 34.22 | 35.28 | 34.85 | 33.51 |
| 30 | 31.90 | | 29.96 | 29.42 | 29.20 | 30.32 | 31.63 | 32.95 | 34.24 | 35.31 | 34.81 | 33.48 |
| 31 | 31.87 | | 29.96 | | 29.20 | | 31.66 | 32.98 | | 35.33 | | 33.45 |

Wake County

1 (*777, p. 134; 817, p. 214; 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; 1072, p. 220). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 4 | 8 | Mar. 28 | 8 | June 14 | 12 | Aug. 30 | 11 |
| 12 | 9 | Apr. 5 | 8 | 21 | 13 | Sept. 6 | 12 |
| 18 | 7 | 12 | 8 | 28 | 14 | 13 | 12 |
| 25 | 7 | 18 | 8 | July 5 | 13 | Nov. 4 | 8 |
| Feb. 1 | 12 | 26 | 9 | 12 | 11 | 14 | 8 |
| 8 | 8 | May 4 | 8 | 20 | 11 | 22 | 8 |
| 15 | 9 | 10 | 10 | 26 | 12 | 27 | 7 |
| 22 | 9 | 17 | 10 | Aug. 2 | 12 | Dec. 7 | 9 |
| Mar. 2 | 8 | 24 | 10 | 10 | 11 | 14 | 9 |
| 8 | 9 | 31 | 11 | 17 | 9 | 20 | 8 |
| 15 | 7 | June 7 | 11 | 24 | 10 | 27 | 8 |
| 22 | 8 | | | | | | |

2. Baptist parsonage. At Garner, about 300 feet south of Southern Railway, 12 feet south of parsonage. Dug unlined well, diameter 7 feet, depth 27 feet. Concrete curb at surface. Equipped with Au rack recorder. Measuring point, center of well door sill, 1.05 feet above land-surface datum.

2--Continued.

Mean daily water level, in feet below land-surface datum, 1946
(From recorder charts)

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Oct. 17 | 25.35 | Nov. 7 | 25.60 | Nov. 25 | 25.67 | Dec. 13 | 25.80 |
| 18 | 25.40 | 8 | 25.60 | 26 | 25.66 | 14 | 25.83 |
| 19 | 25.40 | 9 | 25.62 | 27 | 25.65 | 15 | 25.84 |
| 20 | 25.45 | 10 | 25.63 | 28 | 25.67 | 16 | 25.85 |
| 21 | 25.47 | 11 | 25.64 | 29 | 25.66 | 17 | 25.85 |
| 25 | 25.48 | 12 | 25.68 | 30 | 25.66 | 18 | 25.86 |
| 26 | 25.49 | 13 | 25.68 | Dec. 1 | 25.65 | 19 | 25.87 |
| 27 | 25.50 | 14 | 25.68 | 2 | 25.73 | 20 | 25.84 |
| 28 | 25.50 | 15 | 25.69 | 3 | 25.74 | 21 | 25.78 |
| 29 | 25.50 | 16 | 25.70 | 4 | 25.73 | 22 | 25.84 |
| 30 | 25.51 | 17 | 25.71 | 5 | 25.73 | 23 | 25.85 |
| 31 | 25.52 | 18 | 25.70 | 6 | 25.74 | 24 | 25.81 |
| Nov. 1 | 25.54 | 19 | 25.69 | 7 | 25.75 | 25 | 25.83 |
| 2 | 25.54 | 20 | 25.67 | 8 | 25.76 | 26 | 25.84 |
| 3 | 25.56 | 21 | 25.65 | 9 | 25.77 | 27 | 25.85 |
| 4 | 25.59 | 22 | 25.65 | 10 | 25.78 | 29 | 25.85 |
| 5 | 25.60 | 23 | 25.68 | 11 | 25.77 | 30 | 25.91 |
| 6 | 25.61 | 24 | 25.68 | 12 | 25.77 | 31 | 25.93 |

Mean daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 25.94 | 25.30 | 25.50 | 25.57 | 25.52 | 25.80 | 25.98 | ..... | 26.17 | 25.29 | 25.41 | ..... |
| 2 | 25.93 | 25.33 | 25.47 | 25.52 | 25.50 | 25.80 | 25.99 | ..... | 26.19 | 25.27 | 25.41 | ..... |
| 3 | 25.91 | 25.33 | 25.53 | 25.54 | 25.52 | 25.79 | 26.01 | ..... | 26.33 | 25.26 | 25.58 | ..... |
| 4 | 25.92 | 25.26 | 25.56 | 25.57 | 25.54 | 25.83 | 26.04 | ..... | 26.25 | 25.25 | 25.59 | ..... |
| 5 | 25.88 | 25.28 | 25.58 | 25.55 | 25.54 | 25.84 | 26.06 | ..... | 26.26 | 25.24 | 25.59 | ..... |
| 6 | 25.87 | 25.28 | 25.60 | 25.56 | 25.56 | 25.84 | 26.08 | ..... | 26.28 | 25.23 | 25.41 | 24.79 |
| 7 | 25.85 | 25.30 | 25.61 | 25.57 | 25.56 | 25.85 | 26.08 | ..... | 26.28 | 25.22 | 25.42 | 24.79 |
| 8 | 25.83 | 25.37 | 25.55 | 25.58 | 25.62 | 25.86 | 26.09 | ..... | 26.26 | 25.20 | 25.38 | 24.76 |
| 9 | 25.85 | 25.41 | 25.54 | 25.57 | 25.64 | 25.88 | ..... | ..... | 26.25 | 25.20 | 25.44 | 24.81 |
| 10 | 25.87 | 25.42 | 25.53 | 25.63 | 25.68 | 25.91 | ..... | ..... | 26.25 | 25.21 | 25.45 | 24.80 |
| 11 | 25.85 | 25.45 | 25.52 | 25.60 | 25.70 | 25.94 | ..... | ..... | 26.25 | 25.21 | 25.36 | 24.80 |
| 12 | 25.83 | 25.44 | 25.54 | 25.62 | 25.70 | 25.96 | ..... | ..... | 26.23 | 25.22 | 25.31 | 24.81 |
| 13 | 25.84 | 25.43 | ..... | 25.63 | 25.69 | 25.97 | ..... | ..... | 26.19 | 25.21 | 25.30 | 24.81 |
| 14 | 25.73 | 25.40 | ..... | 25.62 | 25.70 | 25.96 | ..... | ..... | 26.17 | 25.19 | 25.28 | 24.83 |
| 15 | 25.67 | 25.36 | ..... | 25.59 | 25.74 | 25.93 | ..... | ..... | 26.16 | 25.19 | 25.20 | 24.81 |
| 16 | 25.64 | 25.38 | ..... | 25.51 | 25.75 | 25.91 | ..... | ..... | 26.15 | 25.22 | 25.13 | 24.81 |
| 17 | 25.65 | 25.41 | ..... | 25.50 | 25.77 | 25.90 | ..... | ..... | 26.18 | 25.22 | 25.11 | 24.87 |
| 18 | 25.62 | 25.42 | ..... | 25.53 | 25.79 | 25.90 | ..... | ..... | 26.17 | 25.21 | 25.09 | 24.86 |
| 19 | 25.54 | 25.44 | 25.48 | 25.50 | 25.81 | 25.91 | ..... | ..... | 26.14 | 25.21 | 25.06 | 24.87 |
| 20 | 25.38 | 25.41 | 25.45 | 25.48 | 25.82 | 25.92 | ..... | ..... | 26.11 | 25.22 | 25.04 | 24.89 |
| 21 | 25.36 | 25.40 | 25.44 | 25.45 | 25.81 | 25.92 | ..... | ..... | 25.70 | 25.04 | 25.04 | 24.88 |
| 22 | 25.38 | 25.42 | 25.48 | 25.50 | 25.80 | 25.83 | ..... | ..... | 25.83 | 25.26 | 25.00 | 24.89 |
| 23 | 25.34 | 25.41 | 25.49 | 25.50 | 25.78 | 25.93 | ..... | ..... | 25.81 | 25.27 | 24.94 | 24.89 |
| 24 | 25.32 | 25.44 | 25.43 | 25.47 | 25.76 | 25.94 | ..... | ..... | 25.69 | 25.30 | 24.86 | 24.94 |
| 25 | 25.30 | 25.46 | 25.42 | 25.46 | 25.75 | 25.95 | ..... | 26.13 | 25.50 | 25.30 | 24.84 | 24.93 |
| 26 | 25.27 | 25.48 | 25.49 | 25.50 | 25.76 | 25.95 | ..... | 26.12 | 25.44 | 25.32 | 24.84 | 24.91 |
| 27 | 25.29 | 25.51 | 25.52 | 25.50 | 25.78 | 25.94 | ..... | 26.12 | 25.42 | 25.32 | 24.84 | 24.92 |
| 28 | 25.29 | 25.52 | 25.51 | 25.53 | 25.79 | 25.94 | ..... | 26.14 | 25.38 | 25.33 | 24.83 | 24.93 |
| 29 | 25.28 | ..... | 25.52 | 25.55 | 25.80 | 25.95 | ..... | 26.15 | 25.37 | 25.34 | 24.83 | 24.96 |
| 30 | 25.26 | ..... | 25.54 | 25.54 | 25.80 | 25.97 | ..... | 26.17 | 25.30 | 25.35 | 24.81 | 24.98 |
| 31 | 25.28 | ..... | 25.57 | ..... | 25.81 | ..... | ..... | 26.16 | ..... | 25.37 | ..... | 25.00 |

Washington County

1 (*945, p. 115; *987, p. 133; 1017, p. 322; 1024, p. 199; 1072, p. 220). R. H. Lucas. About 1.5 miles west of Plymouth and 50 yards south of U. S. Highway 64.

1--Continued.

Water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | ..... | 12.23 | ..... | 12.74 | 12.79 | 14.44 | 14.67 | 13.00 | 14.27 | ..... | 13.12 | 11.37 |
| 2 | ..... | 12.38 | ..... | 12.66 | 12.85 | 14.47 | 14.62 | 12.85 | 14.34 | ..... | 13.16 | 11.46 |
| 3 | ..... | 12.45 | ..... | 12.16 | 12.92 | 14.49 | 14.45 | 12.73 | 14.40 | ..... | ..... | 11.55 |
| 4 | ..... | 12.30 | 13.40 | 12.09 | 13.05 | 14.55 | 14.45 | 12.63 | 14.45 | ..... | ..... | 11.62 |
| 5 | ..... | 12.39 | 13.42 | 11.98 | 13.06 | 14.57 | 14.48 | 12.54 | 14.50 | ..... | ..... | 11.64 |
| 6 | ..... | 12.48 | 13.44 | 12.02 | 13.13 | 14.61 | 14.52 | 12.60 | 14.55 | ..... | ..... | 11.73 |
| 7 | ..... | 12.49 | 13.47 | 12.15 | 13.18 | 14.66 | 14.54 | ..... | 14.45 | ..... | 12.19 | 11.84 |
| 8 | 12.80 | 12.59 | 13.20 | 12.29 | 13.30 | 14.72 | ..... | ..... | 14.39 | ..... | 12.06 | 11.84 |
| 9 | 12.73 | 12.71 | 12.77 | 12.31 | 13.36 | 14.72 | 14.40 | ..... | 14.30 | ..... | 11.96 | 12.02 |
| 10 | 12.73 | 12.77 | 12.65 | 12.44 | 13.44 | 14.76 | 14.39 | ..... | 14.25 | ..... | 12.00 | 12.07 |
| 11 | 12.79 | 12.86 | 12.64 | 12.44 | 13.48 | 14.81 | 14.35 | ..... | 14.16 | ..... | 11.74 | 12.09 |
| 12 | 12.78 | 12.90 | 12.66 | 12.37 | 13.49 | 14.86 | 14.27 | ..... | 14.02 | 13.45 | 11.23 | 12.15 |
| 13 | 12.50 | 12.92 | 12.67 | ..... | 13.52 | 14.89 | 14.23 | ..... | 13.97 | 13.39 | 11.27 | 12.20 |
| 14 | 12.23 | 12.92 | 12.56 | ..... | 13.57 | 14.88 | 13.97 | ..... | 13.95 | 13.19 | 11.32 | 12.28 |
| 15 | 11.82 | 12.90 | 12.44 | ..... | 13.65 | 14.86 | 13.87 | ..... | 13.96 | 12.84 | 11.23 | 12.22 |
| 16 | 11.65 | 12.96 | 12.42 | ..... | 13.69 | ..... | 13.82 | ..... | 14.03 | 12.66 | 11.16 | 11.75 |
| 17 | 11.77 | ..... | 12.48 | ..... | 13.74 | ..... | 13.81 | 13.49 | 14.12 | 12.40 | 11.26 | 11.63 |
| 18 | 11.68 | ..... | 12.62 | 11.61 | ..... | ..... | 13.85 | 13.55 | 14.14 | 12.26 | 11.35 | 11.60 |
| 19 | 11.50 | ..... | ..... | 11.66 | 13.86 | ..... | 13.87 | 13.61 | 14.12 | 12.25 | 11.31 | 11.67 |
| 20 | 11.08 | ..... | ..... | 11.73 | 13.90 | ..... | 13.42 | 13.67 | 14.13 | 12.28 | 11.24 | 11.76 |
| 21 | 11.25 | ..... | ..... | 11.83 | 13.96 | ..... | 13.24 | 13.75 | 14.15 | 12.37 | ..... | 11.76 |
| 22 | 11.43 | 13.14 | ..... | 12.07 | 14.02 | 14.98 | 12.94 | 13.79 | ..... | 12.46 | 11.24 | 11.86 |
| 23 | 11.46 | 13.13 | ..... | 12.18 | 14.05 | 14.99 | ..... | 13.85 | ..... | 12.55 | 10.88 | 11.91 |
| 24 | ..... | 13.19 | ..... | 12.22 | 14.09 | 15.02 | ..... | 13.93 | ..... | 12.66 | 10.61 | 12.08 |
| 25 | ..... | 13.24 | ..... | 12.30 | 14.11 | 15.06 | ..... | 13.98 | ..... | 12.72 | 10.66 | 12.03 |
| 26 | ..... | 13.28 | ..... | 12.44 | 14.14 | 14.98 | ..... | 14.04 | ..... | 12.74 | 10.80 | 11.57 |
| 27 | 11.82 | 13.33 | ..... | 12.50 | 14.19 | 14.81 | ..... | 14.10 | ..... | 12.77 | 10.98 | 11.52 |
| 28 | 11.92 | 13.38 | ..... | 12.64 | 14.24 | 14.77 | ..... | 14.14 | ..... | 12.81 | 11.08 | 11.52 |
| 29 | 11.99 | ..... | 12.47 | 12.71 | 14.28 | 14.67 | 13.27 | 14.20 | ..... | 12.85 | 11.21 | 11.67 |
| 30 | 12.03 | ..... | 12.59 | 12.75 | 14.34 | 14.66 | 13.36 | 14.24 | ..... | 12.92 | 11.28 | 11.74 |
| 31 | 12.13 | ..... | 12.70 | ..... | 14.41 | ..... | 13.44 | 14.27 | ..... | 13.01 | ..... | 11.79 |

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; 1072, p. 221). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|--------|-------------|
| Jan. 4 | 3.68 | Apr. 5 | 3.02 | July 5 | 3.38 | Oct. 4 | 3.00 |
| 11 | 3.76 | 12 | 2.84 | 12 | 3.48 | 11 | 3.08 |
| 18 | 3.60 | 19 | 2.60 | 19 | 3.46 | 18 | 2.92 |
| 25 | 3.30 | 26 | 2.50 | 26 | 3.32 | 25 | 2.80 |
| Feb. 1 | 3.06 | May 3 | 2.64 | Aug. 2 | 3.24 | Nov. 1 | 2.90 |
| 8 | 2.98 | 10 | 2.90 | 9 | 3.33 | 8 | 2.90 |
| 15 | 2.06 | 17 | 3.04 | 16 | 3.50 | 22 | 2.08 |
| 22 | 3.16 | 24 | 3.14 | 23 | 3.24 | 29 | 1.80 |
| Mar. 1 | 3.30 | 31 | 3.34 | 30 | 3.28 | Dec. 6 | 1.70 |
| 8 | 3.28 | June 7 | 3.52 | Sept. 6 | 3.40 | 13 | 1.80 |
| 15 | 3.30 | 14 | 3.60 | 13 | 3.40 | 20 | 1.94 |
| 22 | 3.22 | 21 | 3.70 | 20 | 3.50 | 27 | 2.02 |
| 29 | 3.20 | 28 | 3.26 | 27 | 3.20 | | |

Wilson County

122. M. P. Whitley. About 0.7 mile southeast of junction of U. S. Highways 58 and 264, 3 miles east of Wilson, about 100 yards southwest of U. S. Highway 58, in well house covered with red asphalt shingles on south side of large white house. Drilled well, diameter 6 inches, depth 212 feet, 211 feet of steel casing. Equipped with $\frac{1}{2}$ horsepower jet pump. Tuscaloosa formation. Measuring point, top of 6-inch steel casing, 0.3 foot above land-surface datum.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|--------|-------------|---------|-------------|---------|-------------|
| Jan. 22 | 14.11 | May 1 | 14.20 | Aug. 2 | 18.47 | Nov. 2 | 14.89 |
| Mar. 1 | 18.07 | June 1 | 14.24 | Sept. 1 | 18.57 | 26 | 15.37 |
| 31 | 14.30 | 29 | 17.72 | 28 | 16.24 | Dec. 31 | 14.49 |

149. Town of Stantonburg. In Stantonburg, inside tool shed immediately southeast of elevated water tank. Drilled well, diameter 6 inches, depth 151 feet, 151 feet casing. Tuscaloosa formation. Measuring point, top of steel 6-inch casing, 0.5 foot above land-surface datum.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|---------|-------|---------|-------|
| Jan. 22 | 19.33 | Mar. 31 | 19.75 | Aug. 2 | 19.92 | Nov. 26 | 19.31 |
| Mar. 1 | 19.90 | May 1 | 19.80 | Sept. 1 | 19.53 | Dec. 31 | 19.53 |

151. W. R. Rogers. Half a mile southwest of Stantonburg, about 100 yards east of State Highway 222 and 200 yards southwest of Contentnea Creek, in mule lot 30 feet north of barn. Flowing jetted well, diameter $1\frac{1}{4}$ inches, depth 52 feet. Tuscaloosa formation. Measuring point, top of $1\frac{1}{4}$ -inch elbow, 1.10 feet above land-surface datum.

Water level, in feet above land-surface datum, 1942, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------------|-------------|-----------------|-------------|--------------|-------------|
| Feb. 10, 1942 | 4.75 | June 29, 1947 a | 4.4 | Nov. 2, 1947 | 4.85 |
| Mar. 1, 1947 | 4.65 | Aug. 2 | 4.56 | 26 | 4.65 |
| May 1 | 4.68 | Sept. 1 | 4.65 | Dec. 31 | 4.95 |
| June 1 | 4.44 | 28 | 4.67 | | |

a Measured with pressure gage.

SOUTH CAROLINA

By G. E. Siple

PROGRAM OF WORK

The observation-well program was begun in 1946 in South Carolina as a part of the cooperative program conducted in cooperation with the South Carolina Research, Planning and Development Board, and was continued in 1947.

An observation-well program in the Tiger River area (see 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. Dept. of Agriculture. At that time observations were made in 28 wells in the Tiger River area. By 1942 the Tiger River wells had been reduced to three, the others having gone dry or caved in. The measurements on these three wells were discontinued in 1942. Measurements were resumed on two of these wells in 1946 but had to be discontinued in 1947 due to either the well drying up or becoming ineffective as an observation well.

In 1942 a shallow bored well, in the Pinckney State Park grounds in Sumter County, was selected for the purpose of determining the fluctuation of the water table in that area. Measurements were resumed on this well in 1946 and have been continued periodically since then.

FLUCTUATIONS OF WATER LEVEL

The State is divided almost exclusively into two geologic provinces--the Piedmont, or crystalline area, and the Coastal Plain province, consisting of unconsolidated sands, clays, and marls. A small area in the extreme northwestern edge of the State lies within the Blue Ridge province. Almost all of the present observation wells are in the Coastal Plain region.

Wells in the Piedmont derive their water either from the decomposed mantle of the crystalline rocks or from cracks, crevices, joints and fault surfaces in the hard rock. Water-table conditions prevail throughout almost the entire area and recharge to the ground-water reservoirs is from

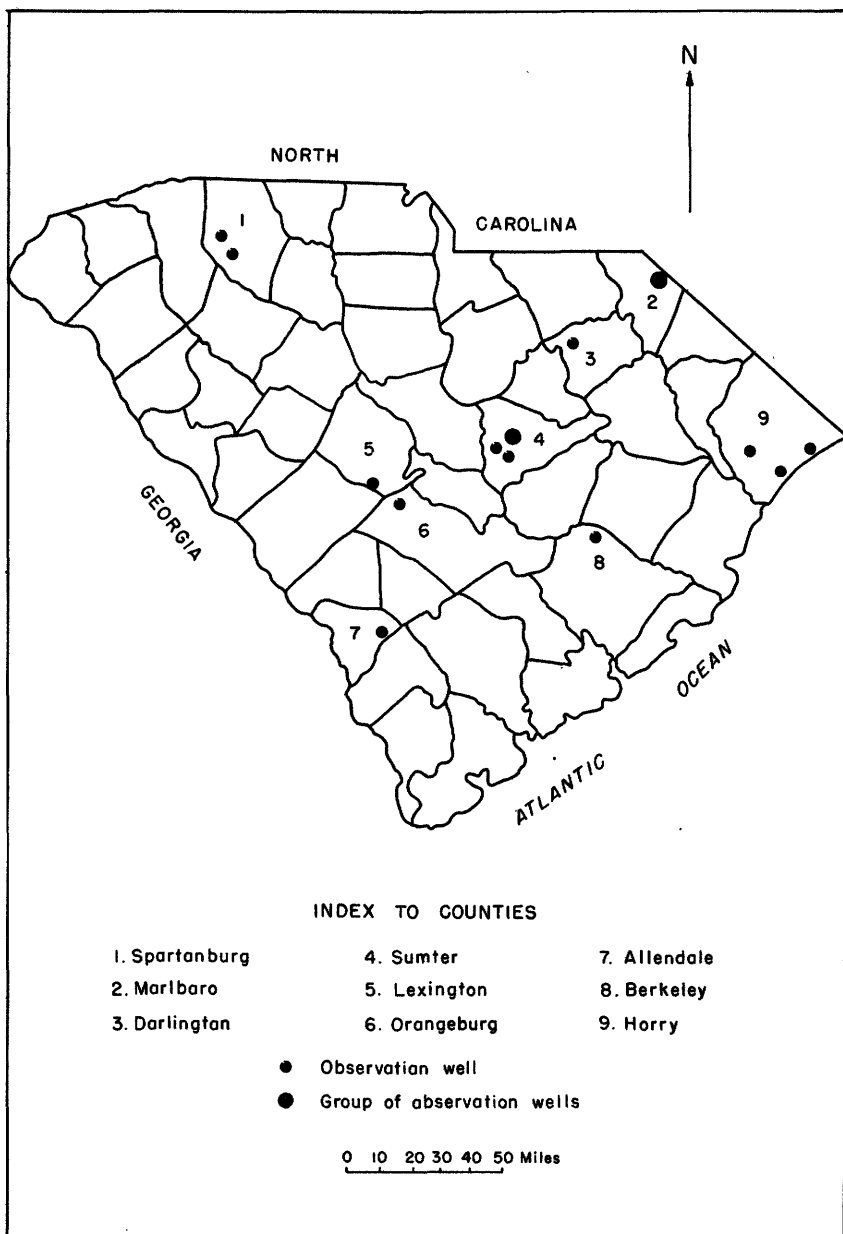


Figure 13.--Map of South Carolina showing location of observation wells, 1947.

local rainfall. Fluctuations of the water table in the Piedmont are affected by various factors such as topographic location of the well with respect to surface drainage, lithology of the aquifer, evaporation and runoff, and precipitation. But it is in this area that the closest correlation can be found between the change in ground-water levels with the cumulative departures from normal precipitation. The normal precipitation over the entire State is highest during June, July, and August with moderately high amounts in February and March. The ground-water levels do not fluctuate exactly in the same manner because of the reasons named above and because of the fact that during the summer months, evaporation and withdrawals from storage are much greater than in other seasons of the year. Statistics for the climatological data are divided between an eastern and western section of the State. Roughly, this is correlative of the Piedmont with the Coastal Plain section. In the western division, or Piedmont, the normal precipitation means are higher in the winter months and lower in the summer months than those of the eastern division, or Coastal Plain section. Thus, the precipitation in the western division more nearly approaches a mean than does that in the eastern division.

Wells in the Coastal Plain section utilize the sands, gravels, and limestones of Upper Cretaceous and Tertiary sediments as aquifers. All the deeper wells are artesian with the exception of those in the recharge areas. Fluctuations in the piezometric surfaces and water levels of wells in the Coastal Plain are of a much smaller magnitude than those of wells in the Piedmont. There is no close correlation of water levels with precipitation except on a very general or long-time basis. The increase in storage due to increased precipitation is reflected only after considerable time lags.

The average annual precipitation over the entire State for 1947 was 55.30 inches, an excess of 7.57 inches or about 16 percent above normal. November had the heaviest monthly rainfall and was also the wettest November on record since 1887. The driest month was February and this was also the driest February since 1887 when records were first begun. The average snowfall was 0.9 inch, or 1.4 inches below normal.

The fluctuation of the water levels in water-table wells is thus mostly the result of precipitation, evaporation, discharge, and runoff. In the summer and fall the evaporation is at a maximum while the runoff is at a much lower degree than in the winter and spring when the runoff is higher and the evaporation is lower. But the net result is a lowering of the water table during the summer and fall seasons due to the fact that the evaporation is of such higher magnitude than the decrease in runoff thereby effecting a decrease in storage. Of course this represents the general condition of fluctuations of water levels and it has many exceptions, particularly where the effect of topographic location and composition and permeability of the aquifers have pronounced effects on the movement of ground water.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Allendale County

1 (*1072, p. 223). Mr. Easton. In Denmark, 0.2 mile southeast of railroad station on Route 28.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Jan. 3 | 37.6 | May 2 | 37.7 | July 16 | 36.9 | Sept. 25 | 36.8 |
| Feb. 20 | 37.4 | June 19 | 39.0 | Aug. 27 | 37.4 | Oct. 28 | 37.4 |
| Mar. 20 | 37.4 | | | | | | |

Berkeley County

1 (*1072, p. 223). Santee River Hardwood Co., St. Stephens.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|---------|-------|----------|-------|
| Feb. 21 | 16.50 | May 2 | 16.24 | July 17 | 16.38 | Sept. 26 | 16.24 |
| Mar. 21 | 16.42 | June 19 | 16.46 | Aug. 27 | 16.16 | Oct. 30 | 16.15 |

Darlington County

1. City of Hartsville. On State Highway 15A, across street from municipal water works. Drilled well, diameter 2 inches, depth 350 feet, bottomed in sand of Tuscaloosa age. Measuring point, top of 1-inch vertical outlet, 3.0 feet above land-surface datum. Measured by pressure gage. Water levels, in feet above land-surface datum, 1947: July 18, 9.9; Aug. 28, 9.2; Nov. 3, 8.8.

Horry County

1. At St. Paul's Baptist Church, 1 mile north of Ingram Mill, and 4 miles north 45° west of Conway. Drilled well, diameter 2 inches, depth about 250 feet. Measuring point, end of 1½-inch horizontal discharge pipe, 3.2 feet above land-surface datum. Measurements by pressure gage.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|
| Feb. 28 | 10.7 | July 12 | 10.1 | Sept. 27 | 10.1 |
| Mar. 22 | 10.1 | Aug. 28 | 10.1 | Nov. 5 | 10.1 |

2. K. C. Ellsworth. In Briarcliff Acres, 12 miles northeast of Myrtle Beach, 300 yards northwest of State Highway 17, and 100 yards southwest of Yacht Basin Road. Drilled well, diameter 10 inches, depth 587 feet. Draws water from Black Creek sands. Measuring point, 2½-inch cross tee discharge pipe, 3.5 feet above land-surface datum. Water levels, in feet above land-surface datum, 1947: June 18, 12.45; Aug. 28, 10.43; Sept. 27, 10.70; Nov. 5, 10.43.

3. City of Myrtle Beach. 1 mile south of Myrtle Beach, on northwest side of State Highway 17, 75 feet northwest of new city well. Diameter 8 inches, depth 87 feet. Measuring point, top of 8-inch casing, 1.6 feet above land-surface datum.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|--------|-------------|
| Apr. 20 | 11.48 | June 18 | 12.66 | Aug. 28 | 9.29 | Nov. 5 | 8.84 |
| May 2 | 11.67 | July 17 | 10.68 | Sept. 27 | 9.09 | | |

Lexington County

1 (*1072, p. 224). Owner unknown. 100 feet east of Aiken-Lexington county line, on north side of State Highway 215. Water levels, in feet below land-surface datum, 1947: Jan. 9, 17.10; Feb. 20, 17.48; Mar. 20, 17.06; June 4, 15.77.

Marlboro County

1 (*1072, p. 224). Town of McColl. On municipal lot, 20 feet southeast of water works building.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|--------|---------|--------|----------|--------|---------|--------|
| Jan. 28 | a23.78 | May 2 | a24.00 | Aug. 28 | a24.93 | Nov. 24 | a24.00 |
| Feb. 27 | a27.05 | June 14 | 18.79 | Sept. 27 | 19.60 | Dec. 29 | a22.65 |
| Apr. 22 | a24.22 | July 18 | a24.77 | | | | |

a Affected by nearby pumping.

2 (*1072, p. 224). Town of McColl. On municipal lot, 25 feet southwest of water works building.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|--------|---------|--------|----------|--------|---------|--------|
| Jan. 28 | a28.69 | May 2 | a28.45 | Aug. 28 | a28.56 | Nov. 24 | a27.10 |
| Feb. 27 | a31.27 | June 14 | 19.69 | Sept. 27 | 20.90 | Dec. 29 | a27.14 |
| Apr. 22 | a28.79 | July 18 | a26.88 | | | | |

a Affected by nearby pumping.

Orangeburg County

1. Town of North. On city lot, under elevated tank. Drilled well, diameter 10 inches, depth 125 feet, ending in sand of McBean or Tuscaloosa age and 274 feet above sea level.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|---------|-------|----------|-------|
| Jan. 9 | 41.81 | May 2 | 42.09 | July 16 | 42.54 | Sept. 24 | 40.64 |
| Feb. 20 | 41.74 | June 19 | 42.70 | Aug. 27 | 42.00 | Oct. 28 | 40.86 |
| Mar. 20 | 41.94 | | | | | | |

Spartanburg County

3 (*777, p. 171; 817, p. 303; 840, p. 367; 845, p. 434; 937, p. 90; 945, p. 119; 1072, p. 224). J. M. Gates. 0.25 mile south, 45° east of Switzer. Water levels, in feet below land-surface datum, 1947: Jan. 8, 29.70; Feb. 14, 29.21; Mar. 12, 28.99; Apr. 10, 28.76.

12 (*777, p. 172; 817, pp. 303, 305; 840, pp. 368, 371; 845, p. 435; 886, p. 639; 907, p. 90; 937, p. 91; 945, p. 120; 1072, p. 224). J. G. R. Armstrong. 2 miles north, 50° west of Duncan. Water levels, in feet below land-surface datum, 1947: Jan. 8, 40.97; Feb. 14, 39.74; Mar. 12, 38.88; Apr. 10, 37.99.

Sumter County

1 (*987, p. 137; 1072, p. 224). Poinsett State Park. 1.5 miles south and 1.3 miles east of Wedgefield. Water levels, in feet below land-surface datum, 1947: Jan. 30, 12.79; Feb. 12, 14.30; Oct. 15, dry.

2 (*1072, p. 224). City of Sumter. 150 feet south of entrance to water works building.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|----------|-------------|--------|-------------|
| Feb. 6 | 12.21 | May 2 | 11.64 | Oct. 8 | 18.48 |
| Apr. 15 | 6.96 | Sept. 11 | 18.07 | 28 | 20.21 |

a Measured 3 hours after being pumped at rate of 90 gallons a minute for 2 hours.

3. Edward Lewis (?), Sumter. 2 miles south, 54° west of Sumter. Diameter 2 3/4 inches, depth 150 feet, ending in sands of Tuscaloosa formation. Measuring point, top of 2-inch discharge elbow, 1.5 feet above land-surface datum.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Feb. 12 | 12.7 | May 6 | 13.0 | July 18 | 12.5 | Sept. 27 | 11.9 |
| Mar. 12 | 13.0 | June 20 | 12.5 | Aug. 29 | 11.6 | Oct. 28 | 11.9 |
| 25 | 13.0 | | | | | | |

4. City of Sumter. On municipal lot, at city water works, 30 feet northeast of main office building. Measuring point, top of air-line vent in base of pump, 1.0 foot above land-surface datum. Water level, in feet below land-surface datum, 1947: May 6, 37.54.

TENNESSEE

By E. M. Cushing

PROGRAM OF WORK

The program of water-level measurements in wells in Memphis and in Shelby County, which is being carried on as a part of the investigation of the ground-water resources of the Memphis area, was continued in 1947 in cooperation with the Memphis Light, Gas and Water Division.

During the year water-level measurements were made periodically in 46 wells. There were 1,239 tape measurements made in 31 of the wells. For the remaining 15 wells, which were equipped with water-stage recorders, 93 tape measurements and 5,010 lowest daily water levels as determined from the recorder charts were tabulated. A total of 6,342 measurements is included in this report. Two observation wells were added to the program and measurements in three observation wells were discontinued.

PUMPAGE

The average daily quantity of water pumped during the year from the so-called "500-foot" sand is estimated to be about 90 million gallons, about 5 million gallons a day more than the average daily withdrawals in 1946. The average daily pumpage from the "1,400-foot" sand is estimated to be about 10 million gallons, about 1 million gallons a day more than the average daily pumpage in 1946.

FLUCTUATIONS OF WATER LEVEL

In general, the water levels in wells screened in the "500-foot" and "1,400-foot" sands declined during 1947 due to increased pumpage. Water levels in observation wells screened in the "500-foot" sand ranged from 1.83 feet higher to 9.65 feet lower than the lowest levels during 1946. The average lowering over the area, based upon measurements made in 32 observation wells, was about 3 feet. In only three observation wells did the measurements show no decline below the lows of 1946.

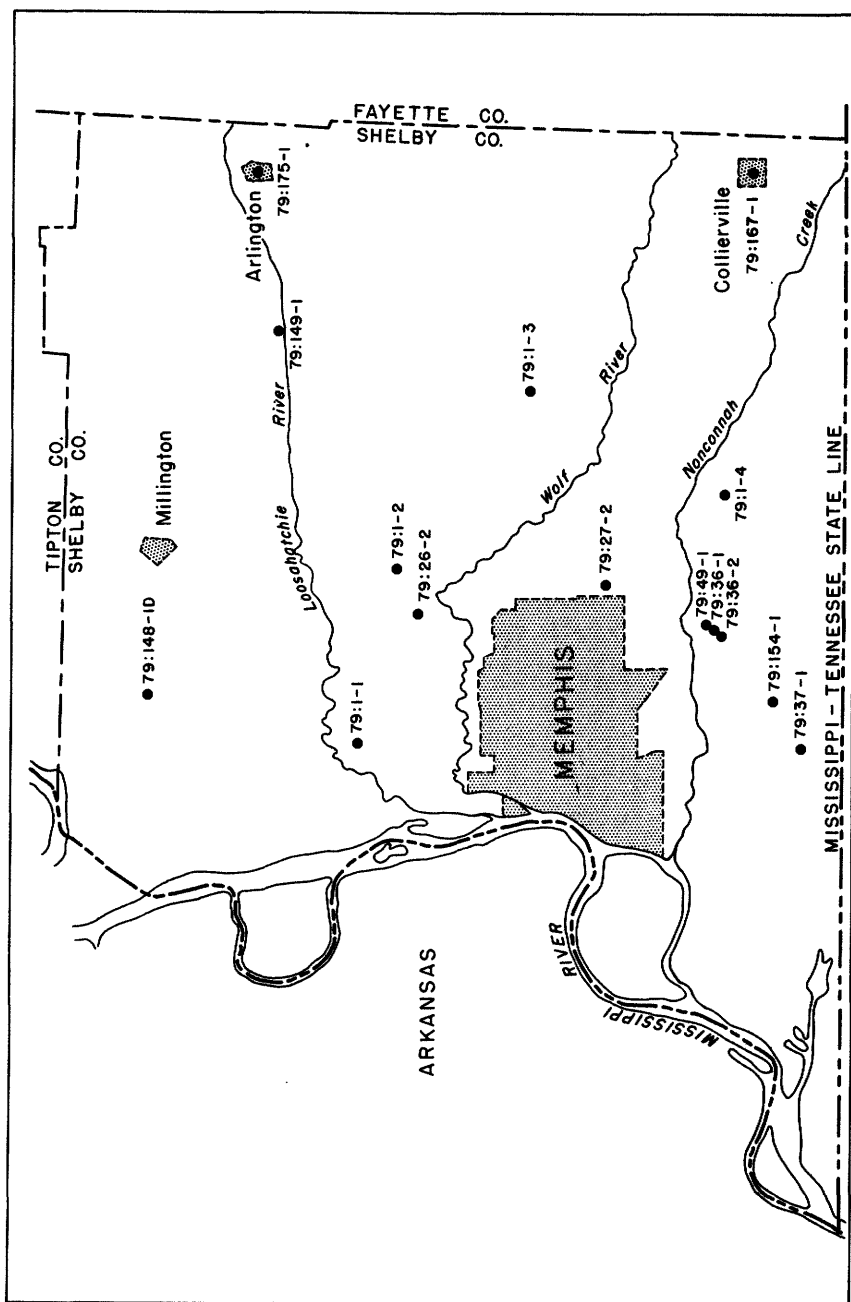


Figure 14.--Map showing location of observation wells in the vicinity of Memphis, Tenn., 1947.

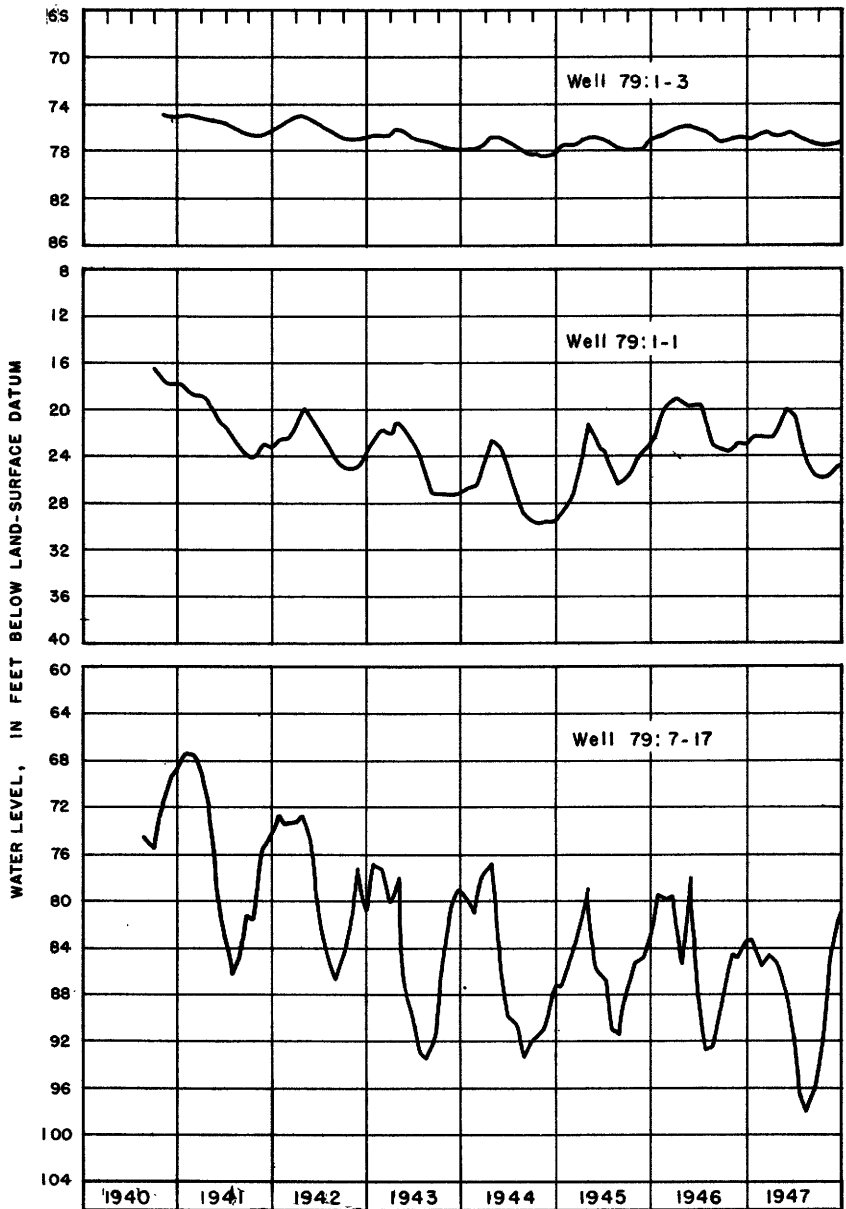


Figure 15.--Graphs showing fluctuations of water level in typical wells in the Memphis area, Tenn.

Water levels in the two observation wells screened in the "1,400-foot" sand reached low points which were more than 4 feet below the lows of 1946.

Figure 15 shows the hydrographs of water-level fluctuations in three wells screened in the "500-foot" sand. The water levels in well 79:1-3, east of Memphis, and well 79:1-1, north of Memphis, probably reflect the effect of all the pumping in the area from the "500-foot" sand and probably indicate the true trend of the water levels. (See fig. 15.) The upward trend, beginning the latter part of 1944, has ceased and the trend of the water levels is again downward.

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. The water level in this well reached a lower point during 1947 than at any other time during the period of record. The previous low occurred during 1943 when the average daily withdrawals within the area were estimated to be about 100 million gallons. However, of this amount only about 75 to 80 million gallons of water was being pumped daily within the city. The remaining 20 to 25 million gallons was being withdrawn in an area near Millington, about 15 miles northeast of Memphis. This amount would have little effect upon the water level in well 79:7-17. During 1947 the major part of the average daily pumpage of about 90 million gallons was being withdrawn from within the city and the immediate vicinity. An estimated average of only 2 to 3 million gallons of water a day was being pumped near Millington. The increase in the withdrawals within the city probably accounts for the lower water level in well 79:7-17 during 1947 than at any previous time.

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; 1072, p. 228). Memphis Light, Gas and Water Division. On O. K. Robertson Rd., 2.24 miles north of Frayser.

Lowest daily water level, in feet below land-surface datum, 1947

| (From recorder charts) | | | | | | | | | | | | |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
| 1 | 22.31 | 21.23 | 22.26 | 22.19 | 18.76 | 19.54 | 20.15 | 22.45 | 24.49 | 25.78 | 25.65 | 24.72 |
| 2 | 22.29 | 21.26 | 22.30 | 22.13 | 18.72 | 19.42 | 20.20 | 22.63 | 24.43 | 25.73 | 25.63 | 24.64 |
| 3 | 22.22 | 21.15 | 22.29 | 22.14 | 18.64 | 19.46 | 20.25 | 22.73 | 24.40 | 25.71 | 25.56 | 24.62 |
| 4 | 22.18 | 21.15 | 22.23 | 22.07 | 18.56 | 19.45 | 20.28 | 22.78 | 24.38 | 25.70 | 25.52 | 24.58 |
| 5 | 21.95 | 21.15 | 22.17 | 22.04 | 18.46 | 19.48 | 20.26 | 22.73 | 24.39 | 25.57 | 25.43 | 24.67 |
| 6 | 22.01 | 21.02 | 22.20 | 22.11 | 18.38 | 19.54 | 20.15 | 22.76 | 24.50 | 25.60 | 25.42 | 24.72 |
| 7 | 22.01 | 21.12 | 22.20 | 22.05 | 18.30 | 19.62 | 20.04 | 22.82 | 24.60 | 25.55 | 25.38 | 24.68 |
| 8 | 21.93 | 21.19 | 22.29 | 21.92 | 18.32 | 19.66 | 19.89 | 22.88 | 24.66 | 25.49 | 25.41 | 24.84 |
| 9 | 21.89 | 21.29 | 22.35 | 21.72 | 18.47 | 19.63 | 19.60 | 22.92 | 24.71 | 25.50 | 25.44 | 24.84 |

79:1-1--Continued.

Lowest daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10 | 21.81 | 21.30 | 22.38 | 21.59 | 18.62 | 19.65 | 19.78 | 23.02 | 24.82 | 25.50 | 25.42 | 24.88 |
| 11 | 21.66 | 21.28 | 22.43 | 21.34 | 18.71 | 19.74 | 19.82 | 23.12 | 24.92 | 25.50 | 25.25 | 24.90 |
| 12 | 21.62 | 21.33 | 22.44 | 21.28 | 18.76 | 19.83 | 19.90 | 23.20 | 25.00 | 25.55 | 25.25 | 24.91 |
| 13 | 21.60 | 21.37 | 22.33 | 21.06 | 18.78 | 19.95 | 19.97 | 23.25 | 25.08 | 25.55 | 25.23 | 24.90 |
| 14 | 21.61 | 21.40 | 22.42 | 20.85 | 18.83 | 20.09 | 19.97 | 23.34 | 25.10 | 25.47 | 25.19 | 24.88 |
| 15 | 21.60 | 21.51 | 22.47 | 20.73 | 18.92 | 20.17 | 19.95 | 23.43 | 25.16 | 25.38 | 25.00 | 24.74 |
| 16 | 21.78 | 21.63 | 22.46 | 20.44 | 19.08 | 20.15 | 20.02 | 23.59 | 25.19 | 25.39 | 25.01 | 24.65 |
| 17 | 21.77 | 21.68 | 22.42 | 20.37 | 19.22 | 20.05 | 20.11 | 23.71 | 25.28 | 25.42 | 25.01 | 24.62 |
| 18 | 21.86 | 21.82 | 22.41 | 20.20 | 19.33 | 19.96 | 20.27 | 23.75 | 25.31 | 25.50 | 24.99 | 24.58 |
| 19 | 21.86 | 21.87 | 22.33 | 19.98 | 19.33 | 19.90 | 20.43 | 23.74 | 25.32 | 25.60 | 24.93 | 24.66 |
| 20 | 21.98 | 22.05 | 22.30 | 19.73 | 19.30 | 19.85 | 20.55 | 23.82 | 25.35 | 25.63 | 24.91 | 24.68 |
| 21 | 22.05 | 22.16 | 22.27 | 19.53 | 19.47 | 19.77 | 20.69 | 23.92 | 25.51 | 25.63 | 24.86 | 24.69 |
| 22 | 22.03 | 22.19 | 22.30 | 19.38 | 19.68 | 19.73 | 20.82 | 24.02 | 25.61 | 25.66 | 24.81 | 24.65 |
| 23 | 21.89 | 22.26 | 22.21 | 19.18 | 19.84 | 19.56 | 20.99 | 24.11 | 25.64 | 25.72 | 24.80 | 24.62 |
| 24 | 21.77 | 22.30 | 22.14 | 19.03 | 19.88 | 19.54 | 21.18 | 24.19 | 25.69 | 25.80 | 24.67 | 24.67 |
| 25 | 21.60 | 22.30 | 22.17 | 18.97 | 19.90 | 19.47 | 21.32 | 24.20 | 25.78 | 25.88 | 24.67 | 24.67 |
| 26 | 21.47 | 22.30 | 22.21 | 19.00 | 19.84 | 19.85 | 21.50 | 24.25 | 25.83 | 25.90 | 24.64 | 24.56 |
| 27 | 21.39 | 22.28 | 22.19 | 18.97 | 19.64 | 19.93 | 21.65 | 24.31 | 25.85 | 25.72 | 24.72 | 24.41 |
| 28 | 21.31 | 22.21 | 22.22 | 18.96 | 19.60 | 19.98 | 21.80 | 24.39 | 25.85 | 25.65 | 24.73 | 24.23 |
| 29 | 21.16 | | 22.23 | 18.89 | 19.57 | 20.06 | 21.96 | 24.43 | 25.80 | 25.71 | 24.73 | 24.11 |
| 30 | 21.07 | | 22.30 | 18.80 | 19.61 | 20.13 | 22.10 | 24.49 | 25.79 | 25.74 | 24.76 | 23.99 |
| 31 | 21.09 | | 22.25 | | 19.62 | | 22.27 | 24.50 | | 25.75 | | 23.96 |

79:1-2 (#907, p. 100; #937, p. 97; 945, p. 126; #987, p. 141; 1017, p. 328; 1024, p. 204; 1072, p. 229). Memphis Light, Gas and Water Division. On Scheibler Rd., 1.4 miles northwest of Bartlett.

Lowest daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|--------------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 73.05 | 73.35 | 73.13 | 73.52 | 72.35 | 72.25 | 73.24 | 73.59 | 75.10 | 75.82 | 75.50 | 75.13 |
| 2 | 72.97 | ..... | 73.15 | 73.50 | 72.32 | 72.31 | 73.28 | 73.72 | 75.10 | 75.78 | 75.49 | 75.07 |
| 3 | 73.04 ^a | 73.15 | 73.15 | 73.51 | 72.24 | 72.37 | 73.50 | 73.82 | 75.10 | 75.74 | 75.52 | 75.04 |
| 4 | 72.99 | 73.27 | 73.15 | 73.46 | 72.18 | 72.37 | 73.30 | 73.86 | 75.06 | 75.71 | 75.55 | 74.99 |
| 5 | ..... | 73.27 | ..... | 73.46 | 72.15 | 72.39 | 73.30 | 73.89 | 75.01 | 75.47 | 75.54 | 74.97 |
| 6 | 72.97 | 73.11 | ..... | 73.55 | 72.10 | 72.40 | 73.25 | 73.96 | 75.05 | 75.47 | 75.56 | 74.99 |
| 7 | 73.05 | 73.13 | ..... | 73.58 | 72.01 | 72.42 | 73.20 | 74.02 | 75.08 | 75.43 | 75.52 | 74.93 |
| 8 | 73.13 | ..... | ..... | 73.49 | 71.95 | 72.45 | 73.19 | 74.07 | 75.12 | 75.39 | 75.54 | 75.06 |
| 9 | 73.18 | ..... | ..... | 73.39 | 71.92 | 72.46 | 73.16 | 74.12 | 75.11 | 75.41 | 75.58 | 75.06 |
| 10 | 73.18 ^a | 73.20 | ..... | 73.29 | 71.88 | 72.53 | 73.08 | 74.21 | 75.15 | 75.42 | 75.57 | 75.11 |
| 11 | 73.13 | ^a | 73.24 | 73.23 | 71.85 | 72.60 | 73.01 | 74.32 | 75.18 | 75.40 | 75.52 | 75.14 |
| 12 | 73.12 | ..... | ..... | 73.26 | 71.78 | 72.63 | 72.96 | 74.39 | 75.20 | 75.49 | 75.53 | 75.17 |
| 13 | 73.13 | ..... | ..... | 73.22 | 71.71 | 72.68 | 72.92 | 74.40 | 75.25 | 75.50 | 75.53 | 75.16 |
| 14 | 73.18 | ..... | ..... | 73.16 | 71.65 | 72.78 | 72.84 | 74.45 | 75.28 | 75.49 | 75.49 | 75.15 |
| 15 | 73.18 | ..... | ..... | 73.15 | 71.60 | 72.86 | 72.76 | 74.51 | 75.33 | 75.45 | 75.27 | 75.04 |
| 16 | 73.28 | ..... | ..... | 73.13 | 71.64 | 72.92 | 72.70 | 74.57 | 75.36 | 75.43 | 75.31 | 75.03 |
| 17 | 73.27 ^a | 73.04 ^a | 73.40 | 73.14 | 71.67 | 72.94 | 72.68 | 74.65 | 75.42 | 75.46 | 75.32 | 75.03 |
| 18 | 73.22 | ..... | 73.50 | 73.12 | 71.73 | 73.00 | 72.64 | 74.70 | 75.43 | 75.50 | 75.29 | 74.98 |
| 19 | 73.15 | ..... | 73.46 | 73.08 | 71.73 | 73.03 | 72.68 | 74.73 | 75.42 | 75.56 | 75.26 | 75.01 |
| 20 | 73.22 | 73.11 | 73.48 | 73.01 | 71.76 | 73.03 | 72.68 | 74.78 | 75.38 | 75.58 | 75.28 | 75.01 |
| 21 | 73.34 | 73.14 | 73.53 | 73.02 | 71.81 | 73.00 | 72.77 | 74.82 | 75.44 | 75.59 | 75.26 | 75.01 |
| 22 | 73.35 | 73.14 | 73.55 | 72.98 | 71.89 | 73.00 | 72.83 | 74.85 | 75.54 | 75.57 | 75.23 | 74.96 |
| 23 | 73.27 | 73.15 | 73.50 | 72.90 | 71.96 | 72.92 | 72.91 | 74.89 | 75.54 | 75.59 | 75.21 | 75.00 |
| 24 | 73.25 | 73.21 | 73.49 | 72.84 | 71.97 | 72.90 | 73.01 | 74.93 | 75.56 | 75.61 | 75.15 | 75.05 |
| 25 | 73.23 | 73.25 | 73.54 | 72.79 | 72.02 | 72.81 | 73.08 | 74.97 | 75.64 | 75.65 | 75.15 | 75.05 |
| 26 | 73.25 | 73.26 | 73.60 | 72.79 | 72.04 | 72.84 | 73.14 | 75.02 | 75.71 | 75.65 | 75.14 | 75.00 |
| 27 | 73.25 | 73.25 | 73.56 | 72.72 | 72.06 | 72.91 | 73.20 | 75.05 | 75.74 | 75.52 | 75.17 | 74.95 |
| 28 | 73.26 | 73.19 | 73.58 | 72.65 | 72.04 | 72.99 | 73.28 | 75.07 | 75.77 | 75.54 | 75.18 | 74.83 |
| 29 | 73.19 | | 73.54 | 72.56 | 72.17 | 73.09 | 73.36 | 75.10 | 75.79 | 75.57 | 75.18 | 74.71 |
| 30 | 73.21 | | 73.58 | 72.41 | 72.24 | 73.19 | 73.43 | 75.12 | 75.81 | 75.59 | 75.18 | 74.60 |
| 31 | 73.24 | | 73.55 | | 72.29 | | 73.49 | 75.12 | | 75.60 | | 74.57 |

a Tape measurement.

79:1-3 (*907, p. 101; 937, p. 97; 945, p. 126; *987, p. 142; 1017, p. 329; 1024, p. 205; 1072, p. 229). Memphis Light, Gas and Water Division. On Macon Rd., 4.5 miles north of Germantown.

Lowest daily water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 76.87 | 76.51 | 76.39 | 76.38 | 76.23 | 76.18 | 76.36 | 76.84 | 77.27 | 77.61 | 77.53 | 77.53 |
| 2 | 76.69 | 76.55 | 76.45 | 76.39 | 76.23 | 76.15 | 76.37 | 76.88 | 77.30 | 77.59 | 77.54 | 77.45 |
| 3 | 76.76 | 76.41 | 76.48 | 76.44 | 76.21 | 76.24 | 76.37 | 76.97 | 77.34 | 77.58 | 77.57 | 77.48 |
| 4 | 76.76 | 76.34 | 76.48 | 76.38 | 76.22 | 76.25 | 76.40 | 76.94 | 77.34 | 77.61 | 77.59 | 77.45 |
| 5 | 76.67 | 76.34 | 76.44 | 76.40 | 76.29 | 76.26 | 76.42 | 76.95 | 77.30 | 77.46 | 77.57 | 77.46 |
| 6 | 76.53 | 76.18 | 76.48 | 76.57 | 76.31 | 76.26 | 76.39 | 76.91 | 77.38 | 77.50 | 77.60 | 77.49 |
| 7 | 76.46 | 76.23 | 76.48 | 76.63 | 76.33 | 76.28 | 76.41 | 76.97 | 77.43 | 77.49 | 77.56 | 77.38 |
| 8 | 76.46 | 76.32 | 76.48 | 76.58 | 76.35 | 76.30 | 76.45 | 76.99 | 77.42 | 77.48 | 77.58 | 77.55 |
| 9 | 76.52 | 76.42 | 76.53 | 76.50 | 76.39 | 76.28 | 76.47 | 77.04 | 77.38 | 77.54 | 77.61 | 77.57 |
| 10 | 76.51 | 76.47 | 76.54 | 76.44 | 76.40 | 76.33 | 76.50 | 77.06 | 77.39 | 77.57 | 77.59 | 77.58 |
| 11 | 76.37 | 76.44 | 76.48 | 76.43 | 76.39 | 76.43 | 76.50 | 77.10 | 77.42 | 77.56 | 77.54 | 77.61 |
| 12 | 76.29 | 76.44 | 76.45 | 76.50 | 76.34 | 76.45 | 76.61 | 77.14 | 77.45 | 77.65 | 77.59 | 77.62 |
| 13 | 76.28 | 76.43 | 76.29 | 76.49 | 76.28 | 76.41 | 76.61 | 77.09 | 77.47 | 77.67 | 77.60 | 77.62 |
| 14 | 76.32 | 76.37 | 76.29 | 76.41 | 76.26 | 76.44 | 76.58 | 77.11 | 77.45 | 77.62 | 77.55 | ..... |
| 15 | 76.37 | 76.30 | 76.35 | 76.33 | 76.27 | 76.50 | 76.53 | 77.09 | 77.42 | 77.55 | 77.44 | 77.25 |
| 16 | 76.55 | 76.32 | 76.35 | 76.31 | 76.29 | 76.51 | 76.52 | 77.12 | 77.44 | 77.55 | 77.54 | 77.61 |
| 17 | 76.55 | 76.34 | 76.35 | 76.35 | 76.31 | 76.49 | 76.55 | 77.15 | 77.46 | 77.59 | 77.56 | 77.62 |
| 18 | 76.51 | 76.40 | 76.39 | 76.54 | 76.32 | 76.52 | 76.55 | 77.15 | 77.48 | 77.62 | 77.50 | 77.58 |
| 19 | 76.38 | 76.40 | 76.34 | 76.25 | 76.28 | 76.55 | 76.60 | 77.12 | 77.44 | 77.66 | 77.44 | 77.54 |
| 20 | 76.28 | 76.42 | 76.35 | 76.17 | 76.26 | 76.57 | 76.59 | 77.14 | 77.34 | 77.69 | 77.46 | 77.52 |
| 21 | 76.48 | 76.46 | 76.40 | 76.27 | 76.27 | 76.53 | 76.60 | 77.16 | 77.39 | 77.69 | 77.44 | 77.49 |
| 22 | 76.48 | 76.45 | 76.45 | 76.31 | 76.38 | 76.52 | 76.62 | 77.18 | 77.52 | 77.68 | 77.40 | 77.44 |
| 23 | 76.36 | 76.40 | 76.37 | 76.30 | 76.38 | 76.49 | 76.67 | 77.17 | 77.52 | 77.71 | 77.40 | 77.42 |
| 24 | 76.22 | 76.47 | 76.34 | 76.30 | 76.36 | 76.46 | 76.72 | 77.18 | 77.47 | 77.72 | 77.33 | 77.50 |
| 25 | 76.12 | 76.52 | 76.44 | 76.37 | 76.31 | 76.39 | 76.75 | 77.18 | 77.55 | 77.74 | 77.37 | 77.50 |
| 26 | 76.10 | 76.55 | 76.54 | 76.42 | 76.33 | 76.32 | 76.75 | 77.21 | 77.61 | 77.71 | 77.40 | 77.46 |
| 27 | 76.11 | 76.53 | 76.45 | 76.36 | 76.30 | 76.22 | 76.73 | 77.23 | 77.62 | 77.61 | 77.49 | 77.44 |
| 28 | 76.15 | 76.45 | 76.50 | 76.52 | 76.24 | 76.21 | 76.70 | 77.26 | 77.59 | 77.63 | 77.53 | 77.39 |
| 29 | 76.09 | | 76.44 | 76.28 | 76.21 | 76.25 | 76.79 | 77.28 | 77.57 | 77.64 | 77.53 | 77.34 |
| 30 | 76.18 | | 76.47 | 76.18 | 76.27 | 76.30 | 76.82 | 77.28 | 77.59 | 77.64 | 77.56 | 77.38 |
| 31 | 76.31 | | 76.45 | | 76.27 | | 76.84 | 77.27 | | 77.65 | | 77.41 |

a Tape measurement.

79:1-4 (*907, p. 101; *1072, p. 230). Memphis Light, Gas and Water Division. On Winchester Rd., about 4 miles southwest of Germantown.

Lowest daily water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | ..... | 81.36 | 81.10 | 81.20 | 80.96 | 81.11 | 81.29 | 81.44 | 81.70 | 81.94 | 81.90 | 82.19 |
| 2 | ..... | 81.45 | 81.16 | 81.15 | 80.97 | 81.05 | 81.31 | 81.47 | 81.72 | 81.93 | 81.94 | 82.11 |
| 3 | ..... | 81.44 | 81.20 | 81.17 | 80.96 | 81.10 | 81.32 | 81.53 | 81.75 | 81.91 | 81.97 | 82.11 |
| 4 | ..... | 81.27 | 81.22 | 81.16 | 80.97 | 81.13 | 81.30 | 81.55 | 81.75 | 81.90 | 82.01 | 82.06 |
| 5 | ..... | 81.28 | 81.20 | 81.07 | 81.02 | 81.14 | 81.30 | 81.54 | 81.72 | 81.82 | 82.01 | 82.00 |
| 6 | 81.40 | 81.18 | 81.17 | 81.25 | 81.05 | 81.14 | 81.28 | 81.50 | 81.71 | 81.83 | 82.05 | 82.02 |
| 7 | 81.37 | 81.07 | 81.18 | 81.33 | 81.09 | 81.13 | 81.29 | 81.51 | 81.75 | 81.82 | 81.98 | 81.99 |
| 8 | 81.36 | ..... | 81.19 | 81.31 | 81.12 | 81.33 | 81.55 | 81.78 | 81.80 | 82.04 | 81.96 | |
| 9 | 81.41 | ..... | 81.29 | 81.22 | 81.16 | 81.11 | 81.34 | 81.55 | 81.78 | 81.81 | 82.11 | 82.00 |
| 10 | 81.43 | 81.34 | 81.33 | 81.20 | 81.19 | 81.10 | 81.34 | 81.56 | 81.76 | 81.84 | 82.11 | 81.99 |
| 11 | 81.35 | 81.35 | 81.34 | 81.09 | 81.19 | 81.13 | 81.34 | 81.62 | 81.78 | 81.82 | 82.00 | ..... |
| 12 | 81.20 | 81.35 | 81.32 | 81.21 | 81.15 | 81.14 | 81.36 | 81.66 | 81.78 | 81.88 | 82.09 | ..... |
| 13 | 81.19 | 81.34 | 81.18 | 81.24 | 81.03 | 81.13 | 81.37 | 81.65 | 81.78 | 81.92 | 82.12 | ..... |
| 14 | 81.15 | 81.28 | 81.12 | 81.22 | 81.02 | 81.18 | 81.38 | 81.63 | 81.77 | 81.91 | 82.11 | ..... |
| 15 | 81.16 | 81.16 | 81.18 | 81.15 | 81.01 | 81.22 | 81.33 | 81.63 | 81.77 | 81.85 | 81.90 | 81.79 |
| 16 | 81.29 | 81.13 | 81.19 | 81.12 | 81.03 | 81.24 | 81.29 | 81.65 | 81.82 | 81.78 | 82.05 | 82.00 |
| 17 | 81.38 | 81.12 | 81.13 | 81.20 | 81.04 | 81.24 | 81.30 | 81.67 | 81.85 | 81.81 | 82.12 | 82.11 |
| 18 | 81.39 | 81.14 | 81.18 | 81.22 | 81.05 | 81.20 | 81.31 | 81.69 | 81.88 | 81.85 | 82.12 | 82.13 |
| 19 | 81.37 | 81.15 | 81.18 | 81.19 | 81.02 | 81.23 | 81.35 | 81.70 | 81.97 | 81.90 | 82.07 | 82.13 |
| 20 | 81.12 | 81.14 | 81.17 | 81.09 | 80.98 | 81.24 | 81.37 | 81.68 | 81.76 | 81.94 | 82.11 | 82.14 |
| 21 | 81.37 | 81.21 | 81.18 | 81.13 | 80.97 | 81.22 | 81.38 | 81.70 | 81.70 | 81.95 | 82.11 | 82.13 |
| 22 | 81.44 | 81.22 | 81.22 | 81.16 | 81.06 | 81.23 | 81.41 | 81.71 | 81.82 | 81.95 | 82.08 | 82.10 |
| 23 | 81.42 | 81.20 | 81.19 | 81.17 | 81.10 | 81.20 | 81.45 | 81.70 | 81.85 | 81.94 | 82.07 | 82.02 |
| 24 | 81.29 | 81.23 | 80.98 | 81.16 | 81.10 | 81.21 | 81.48 | 81.68 | 81.85 | 81.95 | 81.96 | 82.10 |

a Tape measurement.

79:1-4--Continued.

Lowest daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 25 | 81.17 | 81.28 | 81.16 | 81.14 | 81.03 | 81.23 | 81.51 | 81.68 | 81.88 | 81.97 | 81.98 | ..... |
| 26 | 81.10 | 81.32 | 81.26 | 81.20 | 81.09 | 81.21 | 81.51 | 81.69 | 81.93 | 81.97 | 82.01 | ..... |
| 27 | 81.10 | 81.33 | 81.26 | 81.20 | 81.10 | 81.18 | 81.48 | 81.69 | 81.96 | 81.88 | 82.06 | ..... |
| 28 | 81.10 | 81.27 | 81.26 | 81.16 | 81.07 | 81.18 | 81.43 | 81.70 | 81.96 | 81.87 | 82.14 | ..... |
| 29 | 81.08 | | 81.26 | 81.08 | 81.04 | 81.22 | 81.42 | 81.71 | 81.94 | 81.89 | 82.16 | 81.99 |
| 30 | 80.99 | | 81.27 | 81.01 | 81.13 | 81.25 | 81.42 | 81.71 | 81.94 | 81.90 | 82.20 | 81.98 |
| 31 | 81.18 | | 81.25 | | 81.15 | | 81.43 | 81.71 | | 81.91 | | 82.00 |

a Tape measurement.

79:3-A (*817, p. 315; 840, p. 375; *945, p. 437; 886, p. 648; 907, p. 97; 937, p. 95; 945, p. 128; *987, p. 143; 1017, p. 329; 1024, p. 206; 1072, p. 231). 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, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 48.52 | 47.39 | 49.38 | 48.10 | 45.05 | 49.63 | 51.61 | 56.15 | 57.20 | ..... | 55.64 | 50.08 |
| 2 | 48.41 | 47.34 | 49.37 | 48.56 | 45.22 | 48.70 | 52.17 | 56.41 | 56.53 | ..... | 55.42 | ..... |
| 3 | 48.67 | 46.88 | 49.16 | 48.54 | 45.29 | 49.31 | 52.50 | 56.42 | 56.69 | ..... | 54.77 | ..... |
| 4 | 48.70 | 47.17 | 48.77 | 48.60 | 45.29 | 49.84 | 52.55 | 55.96 | 57.02 | ..... | 54.40 | ..... |
| 5 | 48.65 | 47.41 | 48.87 | 48.60 | 45.02 | 50.28 | 52.17 | 55.74 | 57.30 | ..... | 54.20 | ..... |
| 6 | 48.47 | 47.75 | 49.08 | 48.57 | 45.30 | 50.76 | 51.51 | 56.05 | 57.73 | ..... | 54.16 | ..... |
| 7 | 48.51 | 48.02 | 49.15 | 48.11 | 45.58 | 51.12 | 50.57 | 56.22 | 57.84 | ..... | 54.05 | ..... |
| 8 | 48.71 | 48.16 | 49.18 | 47.68 | 45.70 | 51.13 | 50.74 | 56.20 | 57.92 | ..... | 54.02 | 50.47 |
| 9 | 49.01 | 48.16 | 49.20 | 47.88 | 45.77 | 50.69 | 51.11 | 56.12 | 58.29 | 55.75 | 53.83 | ..... |
| 10 | 49.17 | 47.89 | 49.09 | 48.12 | 45.96 | 51.20 | 51.44 | 56.08 | 58.64 | 56.02 | 53.25 | ..... |
| 11 | 49.19 | 47.35 | 48.82 | 48.58 | 46.05 | 51.82 | 51.75 | 55.70 | 58.92 | 56.04 | 52.45 | ..... |
| 12 | 48.99 | 47.49 | 49.02 | 48.39 | 45.87 | 52.34 | 51.91 | 55.55 | 59.09 | 56.00 | 52.59 | ..... |
| 13 | 48.30 | 47.62 | 49.29 | 48.29 | 46.62 | 52.83 | 51.90 | 55.75 | 59.20 | 55.64 | 52.38 | ..... |
| 14 | 47.93 | 47.89 | 49.52 | 47.78 | 47.70 | 53.06 | 51.40 | 56.14 | 59.20 | 55.53 | 52.33 | ..... |
| 15 | 48.12 | 48.17 | 49.58 | 47.08 | 48.87 | 53.00 | 51.60 | 56.57 | 58.73 | 55.82 | ..... | 49.73 |
| 16 | 48.45 | 48.17 | 49.45 | 46.92 | 49.97 | 52.02 | 52.05 | 56.70 | 58.22 | 56.17 | ..... | ..... |
| 17 | 48.63 | 48.05 | 48.79 | 46.86 | 50.46 | 51.58 | 52.48 | 56.64 | 58.02 | 56.46 | 51.65 | ..... |
| 18 | 48.66 | 48.35 | 48.50 | 46.63 | 50.46 | 51.97 | 53.09 | 56.03 | 58.14 | 56.55 | ..... | ..... |
| 19 | 48.58 | ..... | 48.55 | 46.41 | 49.98 | 52.22 | 53.51 | 55.96 | 58.27 | 56.53 | ..... | ..... |
| 20 | 48.10 | ..... | 48.71 | 46.05 | 50.20 | 52.26 | 53.50 | 56.44 | 58.37 | 56.14 | ..... | ..... |
| 21 | 48.20 | ..... | 48.92 | 45.52 | 51.02 | 52.32 | 53.12 | 56.90 | 58.37 | 56.17 | ..... | ..... |
| 22 | 48.21 | ..... | 49.02 | 44.89 | 51.34 | 52.22 | 53.10 | 57.20 | 58.28 | 56.41 | ..... | 49.52 |
| 23 | 48.20 | ..... | 48.98 | 44.55 | 51.46 | 51.18 | 53.38 | 57.27 | 58.27 | 56.60 | ..... | ..... |
| 24 | 48.18 | 48.46 | 48.57 | 44.83 | 51.45 | 50.57 | 53.72 | 57.22 | 57.97 | 56.77 | 50.97 | ..... |
| 25 | 48.07 | ..... | 48.53 | 45.54 | 51.13 | 50.84 | 54.14 | 56.55 | 57.72 | 56.87 | 50.90 | ..... |
| 26 | 47.99 | ..... | 48.54 | 45.65 | 50.23 | 51.16 | 54.40 | 56.74 | 57.57 | 56.85 | 51.10 | ..... |
| 27 | 47.85 | 48.63 | 48.60 | 45.64 | 49.69 | 51.45 | 54.43 | 57.04 | 57.47 | 56.30 | 51.17 | ..... |
| 28 | 47.74 | 49.08 | 48.60 | 45.31 | 49.80 | 51.65 | 54.23 | 57.23 | 57.33 | 55.98 | ..... | ..... |
| 29 | 47.51 | | 48.55 | 45.05 | 50.05 | 51.65 | 54.76 | 57.43 | 56.76 | 55.96 | ..... | 47.63 |
| 30 | 47.27 | | 48.50 | 45.01 | 50.08 | 51.17 | 55.36 | 57.55 | ..... | 55.97 | ..... | ..... |
| 31 | 47.34 | | 48.21 | | 49.98 | | 55.83 | 57.56 | | 55.86 | ..... | ..... |

a Tape measurement.

79:5-193 (*817, pp. 315, 179-319; 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; 1072, p. 232). Memphis Light, Gas and Water Division. In Memphis, near Central Ave. and Tanglewood St.

Lowest daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 90.87 | 91.79 | 91.72 | 92.62 | 89.38 | 92.74 | 95.24 | ..... | 97.52 | 97.70 | 97.31 | ..... |
| 2 | 90.68 | 91.79 | 91.59 | 92.82 | 89.38 | 92.67 | 95.70 | ..... | 96.84 | 97.73 | 96.59 | ..... |
| 3 | 90.87 | 91.75 | 91.30 | 93.02 | 89.32 | 93.03 | 95.72 | ..... | 97.32 | 97.79 | 96.21 | ..... |
| 4 | 91.01 | 91.86 | 91.77 | 92.86 | 89.08 | 93.34 | 95.56 | 97.30 | 97.70 | 97.79 | 96.20 | ..... |
| 5 | 90.98 | 92.41 | 91.97 | 92.67 | 89.05 | 93.39 | 94.73 | 97.95 | 97.91 | 97.48 | 96.41 | ..... |
| 6 | 91.08 | 92.42 | 92.16 | 92.55 | 89.32 | 93.60 | 94.03 | 98.37 | 97.95 | 96.88 | 96.58 | 94.40 |
| 7 | 91.99 | 91.97 | 91.97 | 92.19 | 89.53 | 93.75 | 93.31 | 98.78 | 97.91 | 96.91 | 96.68 | 94.10 |

930249 O-S1-16

79:5-193--Continued.

Lowest daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8 | 91.98 | 91.91 | 92.13 | 92.36 | 89.72 | 93.72 | 93.32 | 98.82 | 97.90 | 97.10 | 96.38 | 94.00 |
| 9 | 92.30 | ..... | 92.33 | 92.43 | 89.63 | 93.79 | 93.42 | 98.70 | 98.23 | 97.33 | 95.88 | 94.03 |
| 10 | 92.55 | 91.32 | 92.61 | 92.42 | 89.61 | 94.42 | 93.44 | 98.25 | 98.52 | 97.44 | 95.55 | 94.15 |
| 11 | 92.45 | 91.77 | 92.79 | 92.49 | 89.51 | 94.83 | 93.42 | 97.91 | ..... | 97.37 | 95.21 | 94.32 |
| 12 | 91.98 | 92.53 | 92.97 | 92.39 | 89.52 | 95.02 | 93.36 | 98.21 | ..... | 97.02 | 95.91 | 94.23 |
| 13 | 91.58 | 92.61 | 93.03 | 91.99 | 89.89 | 95.18 | 93.10 | 98.52 | ..... | 96.58 | 95.85 | 94.18 |
| 14 | 92.08 | 92.47 | 93.17 | 91.67 | 90.39 | 95.35 | 92.38 | 98.78 | ..... | 96.87 | 95.82 | 93.85 |
| 15 | 92.48 | 92.25 | 93.03 | 91.75 | 90.65 | 95.35 | 92.84 | 98.92 | ..... | 97.15 | 95.42 | 92.85 |
| 16 | 92.52 | 91.91 | 92.62 | 91.81 | 91.13 | 95.05 | 93.05 | 98.93 | ..... | 97.44 | 95.17 | 93.28 |
| 17 | 92.17 | 91.81 | 92.75 | 91.74 | 91.40 | 95.18 | 93.42 | 98.65 | ..... | 97.55 | 94.86 | 93.58 |
| 18 | 92.07 | 92.14 | 92.45 | 91.70 | 91.29 | 95.47 | 93.87 | 98.06 | 98.37 | 97.53 | 94.72 | 93.76 |
| 19 | 92.06 | 91.83 | 93.21 | 91.55 | 91.62 | 95.86 | 94.15 | 98.08 | 98.38 | 97.08 | 95.19 | 93.86 |
| 20 | 91.62 | 92.06 | 93.28 | 91.14 | 92.02 | 96.10 | 94.16 | ..... | 98.39 | 96.60 | 95.25 | 93.86 |
| 21 | 92.25 | 92.07 | 93.41 | 90.71 | 92.24 | 96.07 | 94.34 | ..... | 98.10 | 97.02 | 95.34 | 93.76 |
| 22 | 92.02 | 92.36 | 93.02 | 90.77 | 92.37 | 95.74 | 94.81 | ..... | 97.93 | 97.28 | 95.40 | 93.50 |
| 23 | 92.02 | 92.32 | 92.60 | 90.83 | 92.49 | 95.02 | 95.20 | ..... | 98.13 | 97.51 | 94.78 | 93.48 |
| 24 | 92.16 | 91.22 | 92.44 | 90.70 | 92.53 | 94.93 | 95.54 | 98.53 | 98.22 | 97.63 | 94.10 | 93.42 |
| 25 | 92.20 | 91.50 | 92.57 | 90.80 | 92.47 | 94.99 | ..... | 98.09 | 98.40 | 97.66 | ..... | 92.97 |
| 26 | 92.05 | 91.76 | 92.92 | 90.68 | 92.07 | 95.08 | ..... | 98.22 | 98.40 | 97.29 | ..... | 92.01 |
| 27 | 91.44 | 91.88 | 93.13 | 90.25 | 92.05 | 95.13 | ..... | 98.38 | 98.38 | 96.79 | ..... | 91.22 |
| 28 | 92.02 | 91.88 | 92.81 | 89.93 | 92.30 | 94.97 | 95.58 | 98.34 | 98.02 | 97.02 | ..... | 90.75 |
| 29 | 92.05 | ..... | 92.62 | 89.86 | 92.63 | 94.87 | 96.28 | 98.32 | 97.37 | 97.26 | ..... | 90.67 |
| 30 | 91.68 | ..... | 92.26 | 89.50 | 92.77 | 94.83 | 96.87 | 97.34 | 97.53 | 97.39 | ..... | 91.40 |
| 31 | 92.32 | ..... | 92.25 | ..... | 92.85 | ..... | 97.50 | 97.95 | ..... | 97.38 | ..... | 91.70 |

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; 1072, p. 233). 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, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | ..... | 83.67 | 83.17 | 82.63 | 75.92 | 82.91 | 88.94 | 96.57 | 88.59 | 88.29 | 84.61 | 79.00 |
| 2 | ..... | 83.17 | 82.65 | 82.99 | 75.07 | 83.30 | 90.38 | 96.06 | 89.92 | 89.47 | 83.41 | 80.20 |
| 3 | ..... | 83.74 | 81.72 | 83.61 | 76.70 | 84.81 | 89.09 | 93.50 | 91.12 | 89.71 | 82.63 | 80.30 |
| 4 | ..... | 83.89 | 81.99 | 83.54 | 75.31 | 85.87 | 89.09 | 95.05 | 91.94 | 89.93 | 83.17 | 80.94 |
| 5 | ..... | 83.84 | 82.58 | 84.23 | 77.14 | 86.43 | 85.29 | 97.41 | 92.35 | 87.55 | 83.60 | 81.59 |
| 6 | 80.89 | 84.95 | 83.64 | 82.72 | 78.33 | 87.13 | 83.64 | 98.09 | 92.88 | 87.31 | 85.38 | 81.19 |
| 7 | ..... | 85.80 | 83.67 | 81.35 | 78.05 | ..... | 83.67 | 98.15 | 91.38 | 88.40 | 84.17 | 80.20 |
| 8 | ..... | 85.80 | 83.61 | 82.30 | 78.88 | ..... | ..... | 96.60 | 92.63 | 88.96 | 83.58 | 79.37 |
| 9 | ..... | 85.04 | 83.60 | 82.66 | 79.00 | 85.55 | ..... | 96.55 | 92.95 | 89.44 | 82.81 | 80.16 |
| 10 | ..... | 83.23 | 82.78 | 84.80 | 82.95 | 88.21 | ..... | 93.42 | 94.80 | 89.60 | 81.24 | 80.34 |
| 11 | ..... | 83.72 | 83.24 | 85.07 | 81.67 | 90.41 | ..... | 92.43 | 95.51 | 89.37 | 81.46 | 80.32 |
| 12 | ..... | 83.87 | 83.83 | 85.02 | 82.38 | ..... | ..... | 92.60 | 95.80 | 87.35 | 82.17 | 80.45 |
| 13 | 79.16 | 82.87 | 83.83 | 83.44 | 83.95 | ..... | ..... | 93.69 | 95.80 | 87.20 | 82.82 | 80.41 |
| 14 | 80.02 | 82.45 | 84.41 | 81.18 | 84.93 | ..... | 86.03 | 94.63 | 92.90 | 88.46 | 82.47 | 79.30 |
| 15 | 80.30 | 82.48 | 84.54 | 80.57 | 86.22 | ..... | 87.19 | 95.04 | 90.69 | 88.95 | 82.33 | 78.02 |
| 16 | 80.07 | 81.60 | 83.52 | 81.80 | 86.65 | 88.70 | 86.35 | 94.91 | 90.70 | 89.25 | 81.09 | 78.52 |
| 17 | 80.07 | 81.83 | 82.57 | 80.82 | 87.34 | 88.14 | 87.91 | 91.23 | 90.51 | 88.84 | 80.55 | 79.40 |
| 18 | 79.67 | 82.49 | 83.16 | 80.85 | 84.66 | 90.23 | 89.38 | 90.49 | 91.09 | 88.22 | 80.86 | 79.90 |
| 19 | 79.11 | 82.73 | 83.89 | 81.10 | 85.23 | 91.14 | 89.90 | 92.22 | 90.99 | 85.65 | 81.51 | 80.25 |
| 20 | 79.84 | 82.92 | 84.10 | 79.70 | 86.93 | 91.21 | 86.10 | 93.17 | 91.43 | 86.21 | 81.95 | 80.27 |
| 21 | 81.14 | 83.00 | 84.50 | 78.06 | 87.42 | 88.61 | 85.89 | 94.00 | 90.05 | 86.62 | 82.09 | 79.45 |
| 22 | 81.26 | 83.00 | 84.52 | 78.24 | 85.71 | 88.60 | 87.23 | 94.10 | 90.95 | 87.20 | 82.10 | 78.32 |
| 23 | 81.14 | 81.96 | 83.56 | 79.83 | 85.04 | 84.75 | 89.35 | 93.90 | 88.67 | 87.60 | 81.78 | 79.03 |
| 24 | 81.25 | 80.62 | 82.80 | 80.83 | 84.73 | 85.38 | 90.05 | 92.77 | 88.27 | 87.67 | 80.89 | 79.33 |
| 25 | 81.10 | 81.90 | 83.11 | 79.27 | 82.35 | 85.81 | 90.39 | 91.60 | 88.20 | 87.63 | 81.90 | 78.90 |
| 26 | 81.08 | 82.67 | 83.37 | 78.43 | 83.02 | 86.71 | 90.77 | 93.07 | 88.29 | 85.90 | 82.13 | 76.17 |
| 27 | 80.62 | 83.13 | 83.79 | 77.11 | 83.50 | 86.76 | 89.58 | 93.33 | 88.78 | 85.15 | 81.58 | 75.47 |
| 28 | 78.96 | 83.19 | 83.77 | 75.40 | 84.29 | 86.86 | 92.19 | 92.98 | 86.86 | 84.60 | 80.49 | 74.96 |
| 29 | 81.43 | ..... | 83.37 | 74.74 | 84.48 | 86.62 | 94.98 | 93.17 | 84.95 | 85.02 | 80.47 | 79.60 |
| 30 | 83.16 | ..... | 82.73 | 76.02 | 85.07 | 86.00 | 96.76 | 93.23 | 88.87 | 86.24 | 80.32 | 80.49 |
| 31 | 83.67 | ..... | 82.30 | ..... | 84.62 | ..... | 96.58 | 91.34 | ..... | 85.02 | ..... | 80.50 |

a Tape measurement.

79:7-26 (*1024, p. 208; 1072, p. 233). 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, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | ..... | 62.72 | 66.45 | 61.58 | 79.04 | ..... | 73.49 | ..... | 74.28 | 67.54 | 66.52 | 65.18 |
| 2 | ..... | 62.74 | 66.25 | 61.28 | 79.27 | 65.86 | 73.34 | ..... | 74.40 | 67.36 | 66.48 | 64.93 |
| 3 | ..... | 62.60 | 66.27 | 61.27 | 77.70 | 65.73 | 72.91 | ..... | 74.51 | 67.13 | 66.36 | 64.88 |
| 4 | ..... | ..... | 66.18 | 61.10 | 77.61 | 65.43 | 73.03 | 66.23 | 74.60 | 66.91 | 66.26 | 64.71 |
| 5 | ..... | 69.95 | 66.07 | 61.50 | 77.80 | 65.37 | 72.84 | 68.59 | 74.60 | 66.82 | 66.29 | ..... |
| 6 | 59.55 | 69.69 | 66.03 | 61.63 | ..... | 65.09 | ..... | 69.10 | 75.09 | 66.78 | 66.35 | ..... |
| 7 | ..... | 70.60 | 65.88 | 61.76 | ..... | 64.75 | 71.82 | 69.35 | 75.18 | 66.36 | 66.17 | ..... |
| 8 | ..... | 71.23 | 65.80 | 61.40 | ..... | 64.63 | 73.78 | 69.48 | 75.41 | 66.61 | 66.19 | 64.94 |
| 9 | 70.20 | 71.64 | 65.81 | 61.62 | ..... | 65.52 | 73.35 | 69.77 | 75.51 | 66.73 | 66.20 | 65.02 |
| 10 | 61.82 | 74.61 | 65.78 | 61.32 | ..... | 65.77 | 73.36 | 70.10 | 75.50 | 66.90 | 66.13 | 64.85 |
| 11 | 62.12 | 74.82 | 65.51 | 57.59 | ..... | 66.16 | 72.86 | 69.93 | 75.65 | 66.86 | 66.06 | 64.94 |
| 12 | 62.20 | 74.82 | 64.70 | 57.71 | ..... | 66.48 | 65.52 | 70.14 | 75.63 | 66.55 | 66.19 | 64.88 |
| 13 | 63.68 | 75.13 | 64.23 | 57.71 | ..... | 66.49 | 65.78 | 70.20 | 75.78 | 66.29 | 68.01 | ..... |
| 14 | 63.95 | 72.67 | 64.52 | 60.35 | 75.95 | 66.33 | 65.91 | 70.19 | 75.76 | 69.50 | 68.03 | ..... |
| 15 | 62.50 | 72.24 | 64.10 | 63.65 | 76.41 | 64.81 | 65.54 | 70.02 | 72.36 | 70.22 | 66.84 | 64.03 |
| 16 | 62.68 | 72.09 | 63.72 | 64.52 | 75.57 | 64.22 | 65.67 | 69.92 | 71.81 | 70.49 | 66.57 | 64.52 |
| 17 | 62.32 | 72.03 | 63.44 | 64.71 | 75.83 | 65.37 | 66.03 | 69.13 | 71.37 | 70.70 | 66.40 | ..... |
| 18 | ..... | 72.06 | 63.18 | 62.31 | 74.82 | 66.02 | 65.25 | 69.77 | 70.70 | 70.89 | 66.17 | ..... |
| 19 | ..... | 72.20 | 62.81 | 62.33 | 72.93 | 66.29 | 65.07 | 71.10 | 70.24 | 70.60 | 65.98 | ..... |
| 20 | 62.01 | 74.42 | 62.69 | 62.40 | 74.01 | 66.41 | 64.87 | 71.44 | 70.07 | 70.39 | 65.87 | ..... |
| 21 | 61.27 | 74.76 | 62.61 | 72.25 | 74.91 | 66.09 | 64.91 | 72.01 | ..... | 70.60 | 65.81 | ..... |
| 22 | 63.00 | 74.89 | 62.40 | 72.48 | 67.87 | 66.15 | 65.05 | 72.37 | 69.97 | 70.70 | 65.70 | 63.35 |
| 23 | 63.21 | 74.97 | 62.00 | 63.72 | 68.13 | 62.47 | 64.77 | 72.66 | 69.51 | 68.51 | 65.61 | 64.63 |
| 24 | 62.11 | 75.02 | 62.08 | 71.42 | 68.22 | 62.45 | 63.89 | ..... | 68.70 | 67.85 | 65.39 | 64.76 |
| 25 | 61.17 | 69.55 | 62.22 | 71.76 | 68.27 | 62.25 | 63.52 | 70.75 | 68.29 | 67.50 | 65.44 | 64.75 |
| 26 | 61.43 | 68.05 | 62.25 | 71.82 | 68.27 | 62.90 | 63.49 | 72.89 | 68.16 | 64.10 | 65.58 | 64.56 |
| 27 | 62.92 | 67.27 | 61.94 | 71.61 | 68.00 | 72.48 | 63.50 | 73.68 | 68.14 | 66.20 | 65.43 | 62.95 |
| 28 | 63.47 | 66.80 | 61.97 | 71.55 | ..... | 72.61 | 63.78 | 74.07 | 67.98 | 66.47 | 65.46 | ..... |
| 29 | 63.31 | ..... | 61.84 | 77.88 | ..... | 72.20 | 65.23 | 74.33 | 67.82 | 66.60 | 65.33 | 62.38 |
| 30 | 62.75 | ..... | 61.58 | 78.51 | ..... | 73.07 | 65.78 | 74.52 | 67.67 | 66.70 | 65.29 | 64.27 |
| 31 | 62.76 | ..... | 61.40 | ..... | ..... | ..... | ..... | 74.37 | ..... | 66.63 | ..... | 64.10 |

a Tape measurement.

79:7-34 (*1017, p. 331; 1024, p. 208; 1072, p. 234). 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, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June |
|-----|--------|-------|-------|-------|-------|--------|
| 1 | 95.56 | 95.21 | 96.09 | 93.05 | 89.22 | 92.31 |
| 2 | 96.32 | 93.80 | 94.64 | 93.08 | 90.31 | 94.13 |
| 3 | 96.75 | 95.60 | 93.51 | 94.62 | 90.21 | 95.28 |
| 4 | 96.70 | 96.81 | 94.76 | 94.00 | 90.12 | 96.98 |
| 5 | 99.28 | 96.04 | 95.08 | 93.21 | 92.02 | 97.02 |
| 6 | 99.46 | 98.05 | 96.21 | 91.80 | 92.83 | 98.03 |
| 7 | 100.96 | 98.23 | 96.15 | 91.63 | 91.68 | 98.09 |
| 8 | ..... | 96.49 | 95.52 | 93.20 | 91.88 | 96.80 |
| 9 | ..... | 92.23 | 95.20 | 93.58 | 93.98 | 97.20 |
| 10 | ..... | 88.64 | 94.12 | 94.27 | 94.68 | 98.42 |
| 11 | ..... | 90.91 | 95.27 | 94.57 | 94.68 | 99.75 |
| 12 | ..... | 90.93 | 96.23 | 94.44 | 94.45 | 100.69 |
| 13 | a91.42 | 91.70 | 96.15 | 93.74 | 96.30 | 100.94 |
| 14 | 94.44 | 91.84 | 96.19 | 89.75 | 97.40 | 100.90 |
| 15 | 92.28 | 91.84 | 96.17 | 89.63 | 98.63 | 96.79 |
| 16 | 92.18 | 90.02 | 93.46 | 91.03 | 98.99 | 94.87 |
| 17 | 92.03 | 90.90 | 93.27 | 92.24 | 98.89 | 96.73 |
| 18 | 91.44 | 91.86 | 94.20 | 92.64 | 95.98 | 97.52 |
| 19 | 90.33 | 92.20 | 94.90 | 92.63 | 95.10 | 99.43 |
| 20 | 94.33 | 92.36 | 95.29 | 91.93 | 98.36 | 99.43 |
| 21 | 95.93 | 92.41 | 95.65 | 89.55 | 98.91 | 96.42 |
| 22 | 95.93 | 92.32 | 95.64 | 90.66 | 97.65 | 95.63 |

a Tape measurement.

79:7-34--Continued.

Lowest daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June |
|-----|-------|-------|-------|-------|-------|-------|
| 23 | 96.03 | 90.45 | 93.68 | 93.90 | 97.80 | 92.56 |
| 24 | 95.97 | 91.76 | 93.66 | 96.90 | 97.57 | 93.49 |
| 25 | 95.04 | 94.45 | 93.72 | 96.87 | 92.84 | 95.92 |
| 26 | ..... | 95.40 | 93.79 | 96.11 | 92.32 | 97.12 |
| 27 | 94.00 | 96.04 | 94.44 | 94.77 | 94.22 | 97.12 |
| 28 | 93.13 | 96.11 | 93.87 | 95.97 | 94.11 | 97.06 |
| 29 | 93.35 | | 93.58 | 95.54 | 94.07 | 94.90 |
| 30 | 94.81 | | 92.43 | 89.25 | 93.88 | 96.74 |
| 31 | 95.21 | | 92.93 | | 92.62 | |

Lowest daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|---------|---------|--------|---------|-------|-------|
| 1 | 99.66 | 107.95 | 102.81 | 103.81 | 95.93 | 92.01 |
| 2 | 100.00 | 107.94 | 104.91 | 103.29 | 93.74 | 93.79 |
| 3 | 98.50 | ..... | 106.00 | 103.74 | 94.10 | 93.53 |
| 4 | 98.33 | a103.70 | 106.63 | 103.74 | 93.68 | 94.31 |
| 5 | 95.13 | 108.40 | 111.56 | 99.24 | 95.11 | 95.12 |
| 6 | 91.63 | 108.91 | 111.57 | 99.18 | 94.30 | 95.08 |
| 7 | 93.26 | 108.85 | 111.07 | 100.39 | 95.16 | 92.71 |
| 8 | 97.86 | 107.27 | 111.85 | 100.83 | 94.39 | 92.80 |
| 9 | 97.43 | 107.18 | 111.85 | 101.22 | 93.13 | 94.10 |
| 10 | 97.44 | 104.99 | 112.81 | 101.40 | 91.84 | 94.16 |
| 11 | 100.09 | 102.48 | 113.10 | 101.17 | 91.83 | 94.14 |
| 12 | 99.90 | 102.55 | 113.39 | 99.27 | 92.82 | 94.36 |
| 13 | 99.02 | 104.30 | 113.40 | 99.45 | 96.32 | 94.17 |
| 14 | a 99.80 | 105.03 | 113.32 | 102.90 | 96.29 | 92.19 |
| 15 | 99.71 | 105.64 | 105.45 | 103.61 | 95.60 | 91.68 |
| 16 | 100.41 | 105.60 | 105.45 | 104.02 | 93.35 | 92.41 |
| 17 | 103.48 | 102.40 | 106.25 | 103.85 | 94.19 | 93.39 |
| 18 | 104.61 | 103.05 | 106.63 | 102.04 | 94.59 | 94.00 |
| 19 | 104.51 | 104.86 | 106.65 | ..... | 95.53 | 94.59 |
| 20 | 102.39 | 105.78 | 106.34 | a 98.54 | 95.93 | 94.22 |
| 21 | 101.42 | 106.69 | 106.04 | 101.01 | 95.96 | 91.89 |
| 22 | 102.51 | 107.05 | 105.81 | 101.18 | 95.81 | 91.21 |
| 23 | 102.86 | 106.85 | 105.04 | 98.98 | 94.82 | 92.27 |
| 24 | 103.30 | 105.05 | 104.20 | 99.07 | 93.61 | 92.84 |
| 25 | 103.99 | 104.48 | 103.78 | 98.91 | 94.55 | 91.79 |
| 26 | 103.77 | 105.70 | 104.45 | 96.46 | 95.49 | 88.23 |
| 27 | 103.07 | 105.70 | 104.47 | 96.36 | 95.48 | 88.60 |
| 28 | 104.54 | 106.52 | 103.22 | 97.15 | 94.13 | 87.56 |
| 29 | 105.90 | 107.20 | 102.06 | 97.57 | 94.13 | 93.15 |
| 30 | 106.44 | 107.10 | 103.36 | 97.32 | 93.25 | 94.73 |
| 31 | 106.10 | 106.80 | | 96.64 | | 95.15 |

a Tape measurement.

79:8-56 (*1024, p. 209; 1072, p. 235). Memphis Light, Gas and Water Division. In Memphis, on grounds of 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, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 86.82 | 82.47 | 77.31 | 75.67 | 92.18 | 86.30 | 90.52 | 94.70 | 93.30 | 91.71 | 90.92 | 86.00 |
| 2 | 86.85 | 82.49 | 77.27 | ..... | 89.98 | 86.08 | 90.61 | 94.77 | 93.36 | 91.32 | 88.57 | 85.88 |
| 3 | 86.88 | 84.97 | 77.19 | ..... | 89.89 | 86.07 | 90.62 | 94.83 | 93.49 | 91.06 | 88.27 | 85.87 |
| 4 | 86.48 | 85.61 | 77.17 | ..... | 89.79 | 85.99 | 90.66 | 94.76 | 93.52 | 91.18 | 87.91 | 85.73 |
| 5 | 86.35 | 83.13 | 77.02 | ..... | 89.93 | 85.84 | 90.71 | 95.01 | 93.55 | 91.08 | 87.82 | 85.79 |
| 6 | 87.46 | 85.80 | 77.00 | ..... | 90.08 | 85.70 | 90.30 | 94.77 | 93.61 | 90.91 | 87.74 | 85.86 |
| 7 | 88.37 | 86.65 | 76.86 | ..... | 90.17 | 85.62 | 90.37 | 94.36 | 93.60 | 90.82 | 87.48 | 85.63 |
| 8 | 88.80 | 85.74 | 76.77 | 80.17 | 90.36 | 85.56 | 90.46 | 94.14 | 93.71 | 90.94 | 87.51 | 85.91 |
| 9 | 89.35 | 86.16 | 76.78 | 80.55 | 90.47 | 85.47 | 90.65 | 94.65 | 92.33 | 91.13 | 87.65 | 85.93 |
| 10 | 89.69 | 88.98 | 76.76 | 80.94 | 90.65 | 88.95 | 90.72 | 95.11 | 92.27 | 91.23 | 87.61 | 85.97 |
| 11 | 87.09 | 90.10 | 77.05 | 81.18 | 90.67 | 90.54 | 90.82 | 95.11 | 92.22 | 91.35 | 87.39 | 86.10 |
| 12 | 87.12 | 90.37 | 77.29 | 81.32 | 90.51 | 91.18 | 90.83 | 94.68 | 92.23 | 91.38 | 87.53 | 86.05 |

79:8-56--Continued.

Lowest daily water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 13 | 87.02 | 81.45 | 77.42 | 81.35 | 90.53 | 91.65 | 90.49 | 94.67 | 92.37 | 91.20 | 87.54 | 86.02 |
| 14 | 83.53 | 79.51 | 77.45 | 84.77 | 90.58 | 91.97 | 90.51 | 95.09 | 92.16 | 91.00 | 87.38 | 85.98 |
| 15 | 86.05 | 78.88 | 77.25 | 85.10 | 90.40 | 90.79 | 90.37 | 95.30 | 92.29 | 90.95 | 87.09 | 85.70 |
| 16 | 86.83 | 78.53 | 77.12 | 81.47 | 90.34 | 90.77 | 90.58 | 95.35 | 91.45 | 91.05 | 86.99 | 85.96 |
| 17 | 83.65 | 78.32 | 76.84 | 80.27 | 90.84 | 90.44 | 93.03 | 92.27 | 92.51 | 91.10 | 86.82 | 85.97 |
| 18 | 82.84 | 78.07 | 76.81 | 80.54 | 90.87 | 90.48 | 93.55 | 91.92 | 92.45 | 91.32 | 86.68 | 85.95 |
| 19 | 82.51 | 78.00 | 76.66 | 78.91 | 91.01 | 90.23 | 93.75 | 91.66 | 92.09 | 91.34 | 86.56 | 86.09 |
| 20 | 85.29 | 77.88 | 76.52 | 78.50 | 91.10 | 90.30 | 92.64 | 94.55 | 92.09 | 91.34 | 86.57 | 86.12 |
| 21 | 85.69 | 77.88 | 76.43 | 80.80 | 91.19 | 90.37 | 92.85 | 95.40 | 91.97 | 91.32 | 86.53 | 86.14 |
| 22 | 84.47 | 77.82 | 76.38 | 85.15 | 91.28 | 90.35 | 92.96 | 95.86 | 92.10 | 91.34 | 86.47 | 86.10 |
| 23 | 84.64 | 77.64 | 76.21 | 86.05 | 91.27 | 90.22 | 93.04 | 96.13 | 92.17 | 91.41 | 86.38 | 85.95 |
| 24 | 83.09 | 77.76 | 76.20 | 88.87 | 87.65 | 90.26 | 92.96 | 96.20 | 92.11 | 91.43 | 86.09 | 85.97 |
| 25 | 82.58 | 77.84 | 76.33 | 89.56 | 86.88 | 90.33 | 92.89 | 96.42 | 92.19 | 91.51 | 86.16 | 85.91 |
| 26 | 82.29 | 77.85 | 76.42 | 87.82 | 86.79 | 90.32 | 92.85 | 96.49 | 92.20 | 91.40 | 86.30 | 85.61 |
| 27 | 82.22 | 77.78 | 76.21 | 87.75 | 86.31 | 90.30 | 92.87 | 96.24 | 92.16 | 91.12 | 86.43 | 85.43 |
| 28a | 75.53 | 77.58 | 76.18 | 87.82 | 86.01 | 90.33 | 92.80 | 94.00 | 92.04 | 91.20 | 86.43 | 85.18 |
| 29a | 79.98 | | 75.92 | 88.05 | 86.14 | 90.42 | 92.73 | 93.73 | 91.77 | 91.21 | 86.25 | 82.13 |
| 30 | 81.99 | | 75.84 | 91.30 | 86.37 | 90.42 | 94.21 | 92.95 | 91.73 | 91.20 | 86.17 | 85.28 |
| 31 | 82.30 | | 75.70 | | 86.42 | | 94.75 | 93.15 | | 91.17 | | 85.66 |

a Tape measurement.

79:8-73 (*1072, p. 236). Memphis Light, Gas and Water Division. In Memphis, about 300 feet north of Central Ave., and about 800 feet east of Normal St.

Lowest daily water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June |
|-----|--------|--------|--------|---------|--------|--------|
| 1 | 103.61 | 104.68 | 104.73 | ..... | 100.00 | 107.46 |
| 2 | 104.25 | 104.65 | 103.98 | ..... | 100.35 | 107.48 |
| 3 | 104.91 | 104.51 | 103.70 | ..... | 100.42 | 107.99 |
| 4 | 105.05 | 104.70 | 104.31 | ..... | 100.30 | 108.10 |
| 5 | 105.07 | 104.71 | 104.65 | ..... | 100.29 | 109.11 |
| 6 | 105.09 | 104.22 | 105.07 | ..... | 100.27 | 108.12 |
| 7 | 105.09 | 103.96 | 104.87 | ..... | 100.38 | 108.17 |
| 8 | 104.98 | 104.17 | 105.02 | a104.63 | 100.46 | 108.19 |
| 9 | 105.27 | 104.29 | 105.08 | ..... | 100.51 | 108.16 |
| 10 | 104.69 | 103.80 | 105.04 | ..... | 100.52 | 108.57 |
| 11 | 103.73 | 103.45 | 104.99 | ..... | 100.42 | 108.68 |
| 12 | 102.82 | 104.32 | 104.97 | ..... | 100.25 | 108.84 |
| 13 | 102.74 | 104.56 | 104.82 | ..... | 100.06 | 114.95 |
| 14 | 103.96 | 104.62 | 104.69 | ..... | 100.05 | 115.52 |
| 15 | 104.36 | 104.51 | 104.90 | a102.78 | 100.05 | 114.49 |
| 16 | 104.00 | 104.42 | 104.91 | 104.41 | 100.33 | 114.72 |
| 17 | 104.15 | 104.48 | 104.83 | 104.65 | 104.03 | 115.36 |
| 18 | 103.58 | 104.81 | 104.93 | 104.45 | 104.45 | 115.51 |
| 19 | 103.53 | 104.94 | 104.88 | 104.54 | 104.62 | 115.54 |
| 20 | 103.26 | 105.12 | 104.96 | 104.55 | 106.70 | 115.77 |
| 21 | 103.45 | 105.21 | 104.96 | 104.05 | 107.28 | 115.06 |
| 22 | 103.91 | 105.22 | 105.09 | 103.71 | 107.51 | 114.49 |
| 23 | 103.95 | 105.00 | 104.93 | 103.29 | 108.12 | 113.82 |
| 24 | 103.97 | 104.98 | 104.70 | 103.06 | 108.17 | 114.45 |
| 25 | 103.96 | 105.07 | 105.06 | 101.04 | 107.02 | 114.57 |
| 26 | 104.05 | 105.12 | 105.26 | 101.18 | 107.21 | 114.48 |
| 27 | 103.99 | 105.12 | 105.06 | 101.12 | 107.37 | 114.51 |
| 28 | 103.91 | 105.00 | 105.08 | 100.10 | 107.39 | 114.51 |
| 29 | 103.99 | | 104.47 | 99.97 | 107.67 | 114.52 |
| 30 | 104.34 | | 104.41 | 100.12 | 108.17 | 114.72 |
| 31 | 104.59 | | 104.32 | | 108.28 | |

a Tape measurement.

79:8-73--Continued.

Lowest daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|--------|--------|------------|--------|--------|--------|
| 1 | 115.10 | 119.63 | 114.13 | 114.98 | 113.43 | 113.45 |
| 2 | 115.07 | 119.86 | 115.21 | 114.17 | 113.92 | 113.30 |
| 3 | 114.96 | 118.78 | 115.29 | 114.26 | 113.32 | 113.30 |
| 4 | 114.81 | 119.37 | 114.74 | 114.18 | 113.59 | 113.10 |
| 5 | 114.48 | 120.00 | 115.16 | 114.21 | 113.97 | 113.20 |
| 6 | 113.08 | 120.31 | 114.96 | 114.11 | 114.11 | 113.33 |
| 7 | 113.25 | 120.47 | 115.01 | 113.98 | 114.25 | 113.08 |
| 8 | 113.32 | 119.78 | 115.09 | 113.82 | 114.35 | 113.44 |
| 9 | 113.36 | 119.61 | 114.11 | 113.93 | 114.23 | 113.47 |
| 10 | 113.42 | 119.23 | 114.32 | 114.06 | 113.10 | 113.51 |
| 11 | 113.04 | 119.24 | 114.90 | 114.03 | 113.20 | 113.59 |
| 12 | 112.87 | 118.95 | 115.09 | 113.80 | 113.35 | 113.29 |
| 13 | 112.81 | 119.20 | 115.36 | 114.22 | 113.38 | 113.15 |
| 14 | 113.10 | 118.50 | 115.39 | 114.40 | 113.23 | 113.45 |
| 15 | 113.08 | 118.38 | 113.87 | 114.44 | 112.99 | 113.53 |
| 16 | 113.43 | 118.45 | 113.66 | 114.38 | 113.23 | 114.03 |
| 17 | 113.67 | 118.00 | 113.79 | 114.44 | 113.37 | 114.05 |
| 18 | 114.44 | 115.90 | 114.38 | 114.62 | 113.25 | 114.06 |
| 19 | 115.32 | 116.53 | 113.71 | 113.47 | 113.29 | 114.15 |
| 20 | 115.67 | 116.84 | 113.65 | 113.33 | 113.38 | 114.20 |
| 21 | 115.55 | 116.86 | 114.76 | 113.75 | 113.28 | 114.13 |
| 22 | 115.71 | 117.52 | 115.12 | 114.45 | 113.26 | 113.79 |
| 23 | 115.84 | 117.77 | all 114.57 | 114.55 | 113.32 | 113.46 |
| 24 | 115.87 | 116.53 | ..... | 114.62 | 113.12 | 113.65 |
| 25 | 115.82 | 116.58 | ..... | 114.67 | 113.17 | 113.10 |
| 26 | 115.85 | 115.38 | ..... | 114.70 | 113.36 | 111.78 |
| 27 | 115.78 | 113.08 | ..... | 114.58 | 113.42 | 111.34 |
| 28 | 115.80 | 113.20 | ..... | 114.67 | 113.57 | 110.91 |
| 29 | 116.07 | 113.78 | ..... | 114.61 | 113.35 | 107.51 |
| 30 | 119.47 | 114.09 | ..... | 113.63 | 113.48 | ..... |
| 31 | 119.97 | 114.15 | ..... | 113.53 | ..... | 111.02 |

a Tape measurement.

79:11-1 (*1017, p. 332; 1024, p. 210; 1072, p. 237). 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, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|------|
| 1 | 67.52 | 64.64 | 70.16 | 65.55 | 67.56 | 72.32 | 72.38 | 69.51 | 72.10 | 73.11 | 68.30 | |
| 2 | 67.50 | 65.15 | 70.63 | 62.81 | 67.37 | 72.30 | 72.69 | 69.25 | 72.70 | 72.07 | 68.76 | |
| 3 | 67.25 | 65.97 | 70.35 | 62.17 | 68.50 | 68.20 | ..... | 72.02 | 72.80 | 70.92 | 69.18 | |
| 4 | 66.11 | 66.26 | 69.11 | 60.51 | 68.39 | 67.00 | 72.22 | 72.41 | 72.51 | 71.40 | 69.38 | |
| 5 | 65.40 | 68.31 | 68.67 | 60.85 | 68.94 | 68.43 | ..... | 72.40 | 72.16 | 71.57 | 69.54 | |
| 6a63.67 | 64.71 | 69.67 | 67.25 | 61.37 | 70.03 | 68.00 | 73.16 | 72.80 | 71.41 | 71.79 | 69.52 | |
| 7 | 65.43 | 70.24 | 67.09 | 62.93 | ..... | 67.64 | 73.94 | 72.99 | 70.66 | 72.41 | 69.40 | |
| 8 | 66.26 | 70.24 | 67.71 | 62.91 | 69.61 | 67.54 | 73.51 | 72.26 | 71.19 | 72.33 | 69.87 | |
| 9 | 66.22 | 69.56 | 67.38 | 63.64 | 70.04 | 67.17 | 73.10 | 72.52 | 72.03 | 71.21 | 69.93 | |
| 10 | 66.00 | 69.75 | 68.00 | 63.01 | 71.28 | 66.96 | ..... | 73.46 | 72.13 | 71.75 | 69.62 | |
| 11 | 65.78 | 70.34 | 68.57 | 62.88 | 71.40 | 65.52 | 71.37 | 73.23 | 72.38 | 70.29 | 69.79 | |
| 12 | 67.24 | 70.10 | 68.38 | 63.48 | 71.52 | 64.75 | 74.21 | 73.89 | 71.15 | 70.23 | 69.79 | |
| 13a66.36 | 67.54 | 70.64 | 67.75 | 64.60 | 71.91 | 65.55 | 74.18 | 74.16 | 70.81 | 70.25 | 68.71 | |
| 14 | 67.11 | 70.73 | 67.70 | 64.16 | 71.52 | 65.79 | 74.31 | 72.70 | 71.00 | 70.22 | 67.73 | |
| 15 | 67.93 | 70.20 | 67.53 | 66.81 | 70.82 | 66.13 | ..... | 72.53 | 71.95 | 70.11 | 68.22 | |
| 16 | 67.05 | 69.88 | 68.10 | 67.36 | 71.18 | 68.12 | ..... | 72.93 | 72.10 | 69.60 | 67.92 | |
| 17 | 67.14 | 70.12 | 66.90 | 67.25 | 70.72 | 68.10 | 74.47 | 73.50 | 72.54 | 68.50 | ..... |  |
| 18 | 66.77 | 70.37 | 68.39 | 65.82 | 70.52 | 68.40 | 73.73 | 74.09 | ..... | 68.89 | ..... |  |
| 19 | 66.92 | 70.84 | 67.58 | 66.03 | 70.38 | 69.24 | 73.47 | 74.14 | ..... | 69.40 | ..... |  |
| 20a64.04 | 67.52 | 71.25 | 66.05 | 66.10 | 70.25 | 68.80 | 74.44 | 74.00 | a69.80 | 69.47 | ..... |  |
| 21 | 67.74 | 71.02 | 66.17 | 66.23 | 71.74 | 69.60 | 74.78 | 73.49 | ..... | 69.30 | ..... |  |
| 22 | 66.77 | 70.75 | 66.81 | 66.48 | 71.31 | 70.56 | 75.01 | 73.50 | ..... | 69.08 | a68.37 | |
| 23 | 66.70 | 69.11 | 66.71 | 67.07 | 71.06 | 71.49 | 75.01 | 75.00 | ..... | 68.85 | ..... |  |
| 24 | 65.47 | 69.91 | 66.70 | 66.98 | 71.63 | 71.87 | 74.70 | 73.87 | ..... | 68.30 | ..... |  |
| 25 | ..... | 69.92 | 67.36 | 65.50 | 72.20 | 72.70 | 73.85 | 74.31 | 72.87 | 68.53 | ..... |  |

a Tape measurement.

79:11-1--Continued.

Lowest daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 26 | ..... | 66.24 | 70.37 | 67.11 | 66.70 | 73.09 | 72.92 | 73.72 | 74.11 | 72.00 | 68.97 | ..... |
| 27a | 65.97 | 65.11 | 69.80 | 66.00 | 67.47 | 71.69 | 72.10 | 73.00 | 73.90 | 72.12 | 69.02 | ..... |
| 28 | 66.43 | 64.89 | 69.82 | 64.78 | 67.83 | 71.40 | 71.50 | 72.39 | 73.55 | 72.30 | 68.07 | ..... |
| 29 | 66.59 | | 69.59 | 65.38 | 68.92 | 70.18 | 72.39 | 72.32 | 73.21 | 72.50 | 68.14 | ..... |
| 30 | 66.55 | | 69.24 | 66.39 | 68.58 | 71.36 | 72.55 | 72.20 | 73.07 | 73.31 | 67.60 | ..... |
| 31 | 67.06 | | 70.00 | | 68.18 | | 73.65 | 71.20 | | 73.45 |  | ..... |

a Tape measurement.

79:14-10 (*1072, p. 237). 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. Measurements discontinued after Sept. 2.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|--------|-------------|---------|-------------|
| Jan. 9 | 48.65 | Mar. 18 | 45.02 | May 12 | 40.20 | July 15 | 45.90 |
| 14 | 47.96 | 26 | 45.12 | 20 | 48.10 | 22 | 47.50 |
| 22 | 47.61 | Apr. 1 | 44.07 | 27 | 48.34 | 29 | 47.50 |
| 28 | 47.29 | 7 | 44.38 | June 3 | 48.70 | Aug. 5 | 51.95 |
| Feb. 4 | 47.04 | 16 | 47.47 | 10 | 50.07 | 12 | 47.50 |
| 12 | 48.55 | 22 | 44.32 | 17 | 48.85 | 19 | 49.50 |
| 18 | 46.86 | 29 | 44.50 | 24 | 48.35 | 26 | 46.45 |
| 25 | 47.96 | May 6 | 45.90 | July 8 | 49.30 | Sept. 2 | 47.21 |

79:16-1 (*1017, p. 332; 1024, p. 210; 1072, p. 238). Layne & Bowler, Inc. In Memphis, in well house on University St., about 250 feet south of Chelsea Ave.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|--------|-------|---------|-------|--------|-------|
| Jan. 6 | 61.00 | Apr. 7 | 61.20 | July 7 | 65.04 | Oct. 6 | 68.48 |
| 13 | 62.29 | 14 | 61.68 | 14 | 63.73 | 13 | 65.30 |
| 20 | 61.67 | 21 | 60.45 | 21 | 58.25 | 20 | 65.20 |
| 27 | 62.11 | 28 | 59.15 | 28 | 59.65 | 27 | 64.19 |
| Feb. 3 | 62.68 | May 5 | 57.97 | Aug. 4 | 59.60 | Nov. 3 | 62.59 |
| 10 | 61.68 | 12 | 57.75 | 18 | 59.45 | 10 | 68.94 |
| 17 | 62.10 | 19 | 60.55 | 25 | 60.94 | 17 | 63.70 |
| 24 | 61.37 | 26 | 59.49 | Sept. 3 | 60.45 | 24 | 63.70 |
| Mar. 10 | 63.13 | June 2 | 61.80 | 8 | 60.47 | Dec. 2 | 63.68 |
| 17 | 63.02 | 9 | 63.42 | 15 | 60.45 | 9 | 63.92 |
| 24 | 62.95 | 16 | 66.32 | 22 | 67.59 | 15 | 63.90 |
| 31 | 62.49 | 23 | 63.16 | 29 | 68.00 | 30 | 59.59 |

79:19-1 (*1017, p. 333; 1024, p. 211; 1072, p. 238). Oliver Finnie Co. In Memphis, in basement of plant, about 50 feet south of Vance Ave., and about 450 feet west of S. Front St.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|--------|---------|--------|---------|--------|---------|--------|
| Jan. 7 | 100.11 | Apr. 15 | 99.67 | July 22 | 106.25 | Oct. 14 | 105.74 |
| 14 | 99.67 | 22 | 97.10 | 29 | 101.20 | 21 | 105.87 |
| 21 | 99.67 | 29 | 98.39 | Aug. 5 | 113.62 | 28 | 110.69 |
| 28 | 99.77 | May 6 | 89.68 | 12 | 110.50 | Nov. 4 | 108.75 |
| Feb. 4 | 99.30 | 13 | 99.55 | 19 | 107.70 | 11 | 112.94 |
| 11 | 99.34 | 20 | 102.89 | 26 | 106.48 | 18 | 107.46 |
| 18 | 100.08 | 27 | 102.60 | Sept. 2 | 110.10 | 25 | 111.57 |
| 25 | 100.12 | June 3 | 103.32 | 9 | 107.44 | Dec. 2 | 111.95 |
| Mar. 10 | 101.49 | 10 | 102.40 | 16 | 113.01 | 9 | 112.50 |
| 18 | 100.79 | 17 | 103.61 | 23 | 110.94 | 15 | 100.77 |
| 25 | 100.68 | 24 | 102.62 | 30 | 110.88 | 22 | 97.17 |
| Apr. 1 | 100.90 | July 8 | 97.85 | Oct. 7 | 104.96 | 29 | 99.04 |
| 8 | 100.75 | 15 | 107.52 | | | | |

79:20-4 (*987, p. 145; 1017, p. 333; 1024, p. 211; 1072, p. 238). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 7 | 97.82 | Apr. 15 | 100.93 | July 22 | 100.78 | Oct. 14 | 106.04 |
| 14 | 100.62 | 22 | 96.60 | 29 | 104.04 | 21 | 106.15 |
| 21 | 98.22 | 29 | 99.95 | Aug. 5 | 110.69 | 28 | 109.08 |
| 28 | 100.85 | May 6 | 99.88 | 12 | 102.10 | Nov. 3 | 107.40 |
| Feb. 4 | 100.27 | 13 | 103.38 | 19 | 104.35 | 11 | 106.25 |
| 11 | 98.60 | 20 | 97.75 | 26 | 105.15 | 18 | 107.00 |
| 18 | 100.47 | 27 | 104.79 | Sept. 2 | 106.71 | 25 | 107.19 |
| 25 | 98.50 | June 3 | 105.49 | 9 | 106.66 | Dec. 2 | 107.25 |
| Mar. 10 | 102.51 | 10 | 104.42 | 16 | 114.65 | 9 | 107.31 |
| 18 | 100.01 | 17 | 105.88 | 23 | 112.00 | 15 | 106.58 |
| 25 | 100.07 | 24 | 104.30 | 30 | 111.27 | 22 | 99.98 |
| Apr. 1 | 102.50 | July 8 | 115.25 | Oct. 7 | 107.27 | 29 | 92.97 |
| 8 | 102.07 | 15 | 106.74 | | | | |

79:22-1 (*1024, p. 211; 1072, p. 238). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 7 | 107.00 | Apr. 15 | 112.47 | July 22 | 113.77 | Oct. 14 | 118.74 |
| 14 | 113.52 | 22 | 110.98 | 29 | 114.98 | 21 | 118.84 |
| 21 | 106.96 | 29 | 111.50 | Aug. 5 | 119.45 | 28 | 117.90 |
| 28 | 112.83 | May 6 | 111.44 | 12 | 115.95 | Nov. 4 | 119.84 |
| Feb. 4 | 106.26 | 13 | 112.60 | 19 | 115.85 | 11 | 117.90 |
| 11 | 106.47 | 20 | 115.52 | 26 | 115.97 | 18 | 117.95 |
| 18 | 114.09 | 27 | 115.70 | Sept. 2 | 117.58 | 25 | 117.28 |
| 25 | 113.87 | June 3 | 115.30 | 9 | 115.97 | Dec. 2 | 117.00 |
| Mar. 12 | 108.06 | 10 | 115.25 | 16 | 123.19 | 9 | 116.83 |
| 18 | 108.47 | 17 | 117.13 | 23 | 123.85 | 15 | 117.36 |
| 25 | 107.81 | 24 | 115.22 | 30 | 121.07 | 22 | 114.62 |
| Apr. 1 | 114.31 | July 8 | 115.85 | Oct. 7 | 118.20 | 29 | 113.66 |
| 8 | 114.45 | 15 | 115.93 | | | | |

79:23-1 (*1017, p. 333; 1024, p. 212; 1072, p. 239). Memphis Park Commission. In Memphis, at south end of lake in Riverside Park.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|--------|-------------|
| Jan. 7 | 96.40 | Mar. 25 | 96.80 | Aug. 26 | 99.20 | Nov. 4 | 100.89 |
| 14 | 96.31 | Apr. 1 | 96.75 | Sept. 9 | 95.30 | 11 | 100.70 |
| 21 | 96.50 | 8 | 95.34 | 16 | 102.47 | 18 | 99.26 |
| 28 | 95.21 | July 15 | 95.70 | 23 | 102.38 | 25 | 97.70 |
| Feb. 4 | 95.24 | 22 | 96.45 | Oct. 7 | 95.87 | Dec. 2 | 97.42 |
| 18 | 96.53 | 29 | 97.70 | 14 | 96.75 | 9 | 99.09 |
| 25 | 96.48 | Aug. 5 | 101.66 | 21 | 96.38 | 16 | 96.82 |
| Mar. 12 | 97.47 | 12 | 98.90 | 28 | 101.60 | 30 | 96.51 |
| 18 | 97.24 | 19 | 90.30 | | | | |

79:25-1 (*1017, p. 334; 1024, p. 212; 1072, p. 239). Apex Laundry Co. In Memphis, in lot between Rozelle and Kyle Sts., 225 feet south of Lamar Ave.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 6 | 100.12 | Apr. 14 | 100.39 | July 14 | 101.55 | Oct. 13 | 103.84 |
| 13 | 100.15 | 21 | 100.09 | 21 | 100.88 | 20 | 103.38 |
| 20 | 100.15 | 28 | 98.97 | 28 | 100.85 | 27 | 101.80 |
| 27 | 100.16 | May 7 | 98.00 | Aug. 11 | 101.70 | Nov. 3 | 101.00 |
| Feb. 4 | 100.19 | 12 | 98.00 | 18 | 101.00 | 10 | 101.49 |
| 10 | 100.15 | 20 | 98.36 | 25 | 101.00 | 17 | 102.85 |
| 17 | 100.18 | 26 | 98.39 | Sept. 3 | 101.00 | 25 | 103.40 |
| 24 | 100.19 | June 2 | 99.94 | 8 | 101.00 | Dec. 4 | 103.03 |
| Mar. 10 | 100.19 | 9 | 98.75 | 15 | 101.00 | 11 | 102.83 |
| 17 | 100.25 | 16 | 101.00 | 22 | 100.93 | 18 | 102.40 |
| 25 | 100.32 | 23 | 100.95 | 29 | 102.99 | 23 | 102.33 |
| 31 | 97.25 | July 7 | 101.00 | Oct. 6 | 105.95 | 31 | 100.08 |
| Apr. 7 | 100.39 | | | | | | |

79:26-2 (*1017, p. 334; 1024, p. 212; 1072, p. 239). C. S. Chapman. On Raleigh-Millington Rd., about 0.7 mile north of Raleigh.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 6 | 76.53 | Apr. 14 | 78.88 | July 21 | 73.97 | Oct. 13 | 78.19 |
| 13 | 77.15 | 21 | 76.74 | 28 | 75.95 | 20 | 77.65 |
| 20 | 77.73 | 28 | 77.98 | Aug. 4 | 75.92 | 28 | 77.00 |
| 27 | 76.98 | May 5 | 76.05 | 11 | 74.81 | Nov. 3 | 77.18 |
| Feb. 3 | 77.20 | 12 | 75.16 | 18 | 74.35 | 10 | 80.54 |
| 10 | 77.34 | 19 | 75.48 | 25 | 75.38 | 17 | 77.04 |
| 17 | 76.92 | 26 | 75.85 | Sept. 3 | 76.18 | 24 | 77.39 |
| 24 | 77.70 | June 2 | 76.07 | 8 | 75.58 | Dec. 1 | 78.80 |
| Mar. 11 | 77.01 | 9 | 77.95 | 15 | 75.84 | 8 | 78.77 |
| 17 | 77.51 | 16 | 76.70 | 22 | 78.31 | 15 | 78.26 |
| 24 | 77.70 | July 7 | 74.88 | 29 | 80.31 | 22 | 79.01 |
| 31 | 77.37 | 14 | 72.59 | Oct. 6 | 78.44 | 29 | 79.00 |
| Apr. 7 | 78.98 | | | | | | |

79:27-2 (*1024, p. 213; 1072, p. 240). The Wallace Sanitarium. East of Memphis city limits, about 600 feet north of Wallace Rd., and about 0.35 mile east of Goodlett St. Measurements discontinued after May 12.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 6 | 77.70 | Feb. 10 | 80.12 | Mar. 24 | 82.90 | Apr. 21 | 82.78 |
| 13 | 78.95 | 17 | 81.30 | 31 | 83.72 | 28 | 82.67 |
| 20 | 76.14 | 24 | 82.13 | Apr. 8 | 84.63 | May 5 | 82.29 |
| 27 | 77.65 | Mar. 10 | 82.36 | 14 | 82.36 | 12 | 82.53 |
| Feb. 4 | 75.11 | 17 | 83.00 | | | | |

79:28-2 (*1017, p. 334; 1024, p. 213; 1072, p. 240). 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, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 6 | 43.25 | Apr. 14 | 39.97 | July 14 | a37.89 | Oct. 13 | 44.12 |
| 13 | 42.94 | 21 | 40.08 | 21 | 41.59 | 20 | 42.83 |
| 20 | 42.90 | 28 | 39.88 | 28 | 45.45 | 27 | 43.01 |
| 27 | a40.59 | May 5 | 41.05 | Aug. 4 | 43.60 | Nov. 3 | 43.90 |
| Feb. 3 | 43.05 | 12 | a39.62 | 11 | 43.60 | 10 | 43.10 |
| 10 | 43.64 | 19 | 39.48 | 18 | 43.55 | 17 | 44.00 |
| 17 | a38.67 | 26 | 37.65 | 25 | 42.63 | 24 | a38.80 |
| 24 | 43.57 | June 2 | 38.65 | Sept. 3 | 43.89 | Dec. 2 | 43.93 |
| Mar. 10 | 43.18 | 9 | 37.40 | 15 | 46.31 | 9 | 45.06 |
| 17 | 43.47 | 16 | 44.04 | 22 | 44.15 | 15 | 43.16 |
| 24 | 39.51 | 23 | 43.20 | 29 | 43.33 | 22 | 43.31 |
| 31 | 40.82 | July 7 | 42.82 | Oct. 6 | 44.28 | 30 | a38.91 |
| Apr. 7 | 42.24 | | | | | | |

a Nearby well shut down.

79:32-4 (*987, p. 147; 1017, p. 335; 1024, p. 214; 1072, p. 240). 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, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 6 | 58.65 | Apr. 21 | 53.73 | July 21 | 57.75 | Oct. 13 | 64.22 |
| 13 | 56.87 | 28 | 55.26 | 28 | 59.16 | 20 | 63.75 |
| 20 | 57.68 | May 5 | 56.39 | Aug. 4 | 59.13 | 27 | 62.64 |
| 27 | 59.51 | 12 | 57.59 | 11 | 59.03 | Nov. 3 | 65.25 |
| Feb. 3 | 58.89 | 19 | 59.95 | 18 | 58.90 | 10 | 61.89 |
| 10 | 56.40 | 26 | 56.50 | 25 | 58.70 | 17 | 67.10 |
| 17 | 59.07 | June 2 | 57.28 | Sept. 3 | 59.54 | 24 | 62.85 |
| 24 | 57.09 | 9 | 60.30 | 8 | 59.61 | Dec. 1 | 59.32 |
| Mar. 10 | 58.72 | 16 | 58.95 | 15 | 58.80 | 8 | 59.15 |
| 17 | 57.26 | 23 | 56.32 | 22 | 64.15 | 15 | 58.99 |
| 24 | 58.76 | 30 | 63.71 | 29 | 63.84 | 22 | 58.92 |
| 31 | 57.96 | July 7 | 57.82 | Oct. 6 | 64.19 | 29 | 55.21 |
| Apr. 7 | 56.65 | 14 | 55.90 | | | | |

79:33-2 (*1024, p. 214; 1072, p. 241). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Jan. 13 | 101.95 | Mar. 24 | 104.79 | June 10 | 89.48 | Aug. 19 | 87.60 |
| Feb. 24 | 105.39 | Apr. 22 | 90.60 | 24 | 85.30 | 26 | 84.75 |
| Mar. 10 | 105.41 | May 27 | 97.30 | July 8 | 85.71 | Sept. 16 | 90.18 |
| 17 | 105.03 | June 3 | 85.70 | 22 | 92.96 | Dec. 10 | 95.89 |

79:34-1 (*1017, p. 335; 1024, p. 214; 1072, p. 241). H. Blockman & Co. In Memphis, about 250 feet south of Mallory Ave., and about 600 feet east of S. Third St. Measurements discontinued temporarily after June 3.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 7 | 40.17 | Feb. 11 | 39.30 | Mar. 25 | 40.37 | Apr. 29 | 37.59 |
| 14 | 39.84 | 18 | 39.76 | Apr. 1 | 40.59 | May 6 | 36.95 |
| 21 | 39.99 | 25 | 40.01 | 15 | 39.05 | 27 | 40.20 |
| 28 | 38.70 | Mar. 12 | 41.22 | 22 | 38.36 | June 3 | 39.77 |
| Feb. 4 | 38.69 | 18 | 40.88 | | | | |

79:36-1 (*1024, p. 215; 1072, p. 241). Oakville Memorial Sanatorium. In pump house, about 675 feet northwest of Getwell Rd., and about 1,200 feet southwest of U. S. Highway 78.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 7 | 60.50 | Apr. 15 | 60.35 | July 22 | 59.63 | Oct. 14 | 62.30 |
| 14 | 60.39 | 22 | 61.27 | 29 | 60.63 | 21 | 62.28 |
| 21 | 60.72 | 29 | 60.10 | Aug. 5 | 60.63 | 28 | 63.28 |
| 28 | 60.39 | May 7 | 59.98 | 12 | 60.65 | Nov. 4 | 61.29 |
| Feb. 4 | 60.53 | 13 | 58.90 | 19 | 60.63 | 11 | 60.70 |
| 11 | 60.60 | 20 | 59.98 | 26 | 60.61 | 18 | 59.30 |
| 18 | 60.40 | 27 | 60.10 | Sept. 2 | 60.63 | 26 | 62.25 |
| 25 | 60.60 | June 3 | 61.20 | 9 | 60.44 | Dec. 3 | 62.04 |
| Mar. 12 | 60.64 | 10 | 60.60 | 16 | 62.30 | 10 | 61.99 |
| 18 | 60.69 | 17 | 60.83 | 23 | 62.30 | 18 | 62.04 |
| 25 | 60.70 | 24 | 60.30 | 30 | 62.10 | 23 | 61.90 |
| Apr. 1 | 60.58 | July 8 | 60.02 | Oct. 7 | 60.75 | 31 | 61.51 |
| 8 | 60.49 | 15 | 59.70 | | | | |

79:36-2 (*1024, p. 215; 1072, p. 241). Oakville Memorial Sanatorium. In pump house, about 750 feet northwest of Getwell Rd., and about 900 feet southwest of U. S. Highway 78.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|----------|-------------|
| Jan. 7 | 53.43 | Mar. 25 | 54.19 | June 24 | 52.15 | Sept. 16 | 54.00 |
| 14 | 53.50 | Apr. 1 | 53.84 | July 29 | 54.12 | 23 | 52.77 |
| 21 | 53.54 | 16 | 53.43 | Aug. 5 | 53.30 | 30 | 54.97 |
| 28 | 55.44 | 23 | 53.64 | 12 | 52.55 | Oct. 14 | 53.40 |
| Feb. 4 | 53.72 | 30 | 53.40 | 19 | 54.10 | 21 | 55.35 |
| 11 | 54.31 | May 13 | 53.09 | 26 | 52.58 | 28 | 55.00 |
| 18 | 53.34 | 27 | 53.55 | Sept. 2 | 52.55 | Nov. 4 | 55.78 |
| Mar. 12 | 53.73 | June 10 | 53.47 | 9 | 55.00 | 18 | 55.79 |
| 18 | 54.12 | 17 | 55.67 | | | | |

79:37-1 (*1017, p. 335; 1024, p. 216; 1072, p. 242). Whitehaven High School. In Whitehaven, about 250 feet west of U. S. Highway 51, and about 0.35 mile south of Capleville-Whitehaven Rd.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 7 | 42.03 | Apr. 15 | 36.75 | July 22 | 36.60 | Oct. 14 | 36.90 |
| 14 | 41.59 | 22 | 37.35 | 29 | 37.50 | 21 | 36.78 |
| 21 | 41.06 | 29 | 37.28 | Aug. 5 | 38.27 | 28 | 42.20 |
| 28 | 40.35 | May 6 | 38.97 | 12 | 37.10 | Nov. 4 | 37.09 |
| Feb. 4 | 39.73 | 13 | 37.20 | 19 | 37.40 | 11 | 39.35 |
| 11 | 39.27 | 20 | 37.15 | 26 | 37.95 | 18 | 36.50 |
| 18 | 38.93 | 27 | 37.35 | Sept. 2 | 37.08 | 26 | 37.10 |
| 25 | 38.82 | June 3 | 37.35 | 9 | 40.65 | Dec. 3 | 37.12 |
| Mar. 12 | 38.65 | 10 | 37.37 | 16 | 40.95 | 10 | 37.15 |
| 18 | 38.31 | 17 | 37.53 | 23 | 37.78 | 18 | 43.02 |
| 25 | 38.04 | 24 | 37.80 | 30 | 39.69 | 23 | 43.11 |
| Apr. 1 | 37.91 | July 8 | 38.03 | Oct. 7 | 36.70 | 31 | 43.20 |
| 8 | 37.75 | 15 | 38.00 | | | | |

79:38-3 (*1024, p. 216; 1072, p. 242). 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, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|--------|--------|--------|--------|-------|--------|--------|-------|
| 1 | 77.45 | 76.10 | 83.07 | 81.62 | 80.07 | 73.77a | 73.35 | 84.35 | ..... | 81.23 | ..... | ..... |
| 2 | 77.65 | 74.99 | 79.94 | 82.09 | 80.12 | 75.31 | 73.28 | 84.23a | 78.29 | 81.19 | ..... | ..... |
| 3 | 77.69 | 74.20 | 82.00 | 77.34 | 73.80 | 76.43 | 76.21 | 79.21 | ..... | 80.80 | ..... | ..... |
| 4 | 77.87 | 75.63 | 83.12 | 76.20 | 71.49 | 80.60 | 74.65 | ..... | ..... | ..... | 78.90 | ..... |
| 5 | 77.73 | 76.31 | 83.29 | 75.67 | 77.00 | 81.95 | 74.64a | 83.70 | ..... | 78.32 | 80.69a | 84.75 |
| 6 | 76.70 | 76.03 | 83.57 | 74.30 | 79.72 | 80.40 | 74.95 | 85.22 | ..... | ..... | 80.63 | 84.53 |
| 7 | 77.52 | 76.04 | 83.90 | 74.80 | 79.81 | 79.18 | 80.38 | 86.32 | ..... | 85.77 | 80.25 | 78.99 |
| 8 | 77.17 | 76.00 | 83.57 | 75.49 | 79.59 | 75.28 | 82.53 | 86.31 | ... | 86.34 | 80.03 | 77.33 |
| 9 | 76.89 | 75.24 | 81.48 | 76.89 | 79.88 | 75.87 | 83.04 | 81.52a | 83.90 | 86.40 | 77.95a | 77.66 |
| 10 | 76.93 | 74.54 | 82.00 | 76.65 | 79.62 | 76.47 | 82.52 | 78.62 | ..... | 86.37 | 83.58 | 78.23 |
| 11 | 82.00 | 75.32 | 83.10 | 76.20 | 75.22 | 77.18 | 82.26 | 79.95 | ..... | 85.86 | 85.21 | 83.47 |
| 12 | 82.15 | 75.40 | 83.90 | 75.33 | 73.90 | 77.19 | 80.57 | 80.58 | ..... | 80.05 | 85.56 | 84.47 |
| 13 | 81.64 | 76.20 | 84.01 | 73.43 | 74.37 | 76.81 | 77.71 | 80.94 | ..... | 84.73 | 85.69 | 84.01 |
| 14a | 82.40 | 76.46 | 84.00 | 73.96 | 74.70 | 76.40 | 80.27 | 80.58 | ..... | 85.43 | 85.60 | 82.10 |
| 15 | ..... | 76.07 | 83.65 | 74.62 | 74.58 | 74.81 | 80.72 | 80.74 | ..... | 85.49 | ..... | 81.01 |
| 16 | ..... | 75.55 | 76.79 | 75.26 | 74.37 | 81.42 | 77.31 | 80.60a | 87.52 | 85.98 | 83.34 | 81.76 |
| 17 | ..... | 75.91 | 81.80 | 75.23 | 73.68 | 82.96 | 77.27 | 79.80 | ..... | 85.75 | 83.60 | 82.80 |
| 18 | ..... | 76.56 | 83.10 | 78.18 | 73.22 | 83.45 | 77.00 | 84.09 | ..... | 84.52 | 83.90 | 83.65 |
| 19 | ..... | 76.22 | 84.24 | 78.56 | 79.54 | 82.75 | 76.48a | 85.30 | ..... | 80.05 | 84.70 | 83.92 |
| 20 | ..... | 78.65 | 84.12 | 73.88 | 81.08 | 81.70 | 74.84 | ..... | ..... | 81.11 | 85.22 | 82.82 |
| 21a | 76.49 | 77.20 | 84.08 | 73.45 | 81.62 | 80.25 | 76.50 | ..... | ..... | 79.93 | ..... | 80.09 |
| 22 | 77.18 | 81.28 | 78.72 | 74.36 | 81.63 | 77.27 | 77.32 | ..... | ..... | 80.84 | ..... | ..... |
| 23 | 77.53 | 81.25 | 74.76 | 74.53 | 80.10 | 80.37 | 77.29 | ..... | 86.62 | 81.31 | ..... | 80.65 |
| 24 | 77.36 | 81.69 | 75.37 | 74.47 | 78.52a | 80.20 | 77.22 | ..... | 86.96 | 81.58 | ..... | 79.40 |
| 25 | 77.21 | 82.68 | 76.28 | 74.18 | 73.14 | ..... | 77.50 | ..... | 88.07 | 81.08 | ..... | 75.34 |
| 26 | 75.57 | 83.40 | 76.72 | 73.40 | 75.44 | ..... | 77.69a | 83.77 | 87.31 | 78.59a | 84.12 | 74.67 |
| 27 | 74.63 | 83.43 | 81.62 | 71.63 | 76.54 | ..... | 77.00 | ..... | 86.91 | 79.59 | ..... | 73.91 |
| 28 | 75.54 | 83.52 | 82.53 | 72.33 | 76.74 | ..... | 82.91 | ..... | 81.37 | 80.77 | ..... | 73.68 |
| 29 | 75.85 | ..... | 82.55 | 78.58 | 76.77 | ..... | 84.20 | ..... | 80.40 | 81.37 | ..... | 79.66 |
| 30 | 76.09 | ..... | 76.20 | 79.87 | 76.72 | ..... | 84.52 | ..... | 81.18 | 81.54 | ..... | 81.01 |
| 31 | 76.47 | ..... | 80.84 | ..... | 75.50 | ..... | 84.32 | ..... | ..... | 81.43 | ..... | 80.99 |

a Tape measurement.

79:38-4 (*1024, p. 217; 1072, p. 242). American Finishing Co. In Memphis, in center of east reservoir, about 275 feet east of McMillan St., and about 350 feet south of Bodley Ave.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 7 | 64.23 | Apr. 22 | 60.99 | July 22 | 60.21 | Oct. 14 | 67.95 |
| 14 | 59.90 | 29 | 60.80 | 29 | 64.25 | 21 | 66.78 |
| 21 | 63.55 | May 6 | 61.47 | Aug. 5 | 63.65 | 28 | 65.80 |
| 28 | 64.45 | 13 | 60.95 | 12 | 60.65 | Nov. 4 | 64.58 |
| Feb. 11 | 59.99 | 20 | 58.08 | 19 | 60.75 | 11 | 66.80 |
| 18 | 63.13 | 27 | 62.38 | 26 | 61.25 | 18 | 63.50 |
| 25 | 60.82 | June 3 | 60.12 | Sept. 2 | 61.71 | 26 | 66.34 |
| Mar. 12 | 61.43 | 10 | 61.50 | 9 | 63.82 | Dec. 2 | 66.11 |
| 18 | 61.37 | 17 | 64.36 | 16 | 66.70 | 9 | 66.07 |
| 25 | 62.94 | 24 | 61.70 | 23 | 70.81 | 16 | 65.95 |
| Apr. 1 | 62.36 | July 8 | 63.40 | 30 | 66.42 | 30 | 57.02 |
| 8 | 61.90 | 15 | 64.30 | Oct. 7 | 69.30 | | |

79:49-1 (*1024, p. 217; 1072, p. 243). Jack Callie, Oakville. About 20 feet northwest of Getwell Rd., and about 400 feet northeast of U. S. Highway 78.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|--------|-------|---------|-------|---------|-------|--------|-------|
| Jan. 6 | 35.09 | Feb. 24 | 35.14 | Apr. 21 | 37.35 | June 9 | 36.95 |
| 13 | 34.82 | Mar. 10 | 33.10 | 28 | 36.67 | 16 | 38.99 |
| 20 | 35.58 | 17 | 35.73 | May 5 | 35.75 | 23 | 37.80 |
| 27 | 34.77 | 24 | 35.83 | 12 | 40.15 | July 7 | 37.22 |
| Feb. 3 | 34.62 | 31 | 35.50 | 19 | 34.50 | 14 | 37.80 |
| 10 | 36.52 | Apr. 7 | 39.17 | 26 | 34.65 | 21 | 37.17 |
| 17 | 38.78 | 14 | 34.06 | June 2 | 35.43 | 28 | 37.54 |

79:49-1--Continued.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|----------|-------------|---------|-------------|---------|-------------|
| Aug. 11 | 37.10 | Sept. 16 | 36.80 | Oct. 20 | 37.12 | Nov. 25 | 38.28 |
| 18 | 36.95 | 22 | 37.09 | 27 | 37.55 | Dec. 10 | 35.85 |
| 25 | 36.60 | 29 | 37.49 | Nov. 3 | 38.20 | 18 | 35.90 |
| Sept. 3 | 37.55 | Oct. 6 | 37.23 | 10 | 37.17 | 23 | 36.75 |
| 8 | 36.83 | 13 | 37.27 | 17 | 36.94 | 31 | 36.65 |

79:53-1 (*1072, p. 243). Anderson-Tully Co. In Memphis, about 150 feet east of N. Second St., and about 800 feet north of Marble Ave.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|---------|-------|---------|-------|
| Jan. 6 | 65.09 | Apr. 14 | 63.56 | July 21 | 67.52 | Oct. 13 | 76.66 |
| 13 | 64.39 | 21 | 61.13 | 28 | 69.75 | 20 | 72.25 |
| 20 | 65.90 | 28 | 61.36 | Aug. 4 | 69.73 | 27 | 75.39 |
| 27 | 65.43 | May 5 | 61.20 | 11 | 68.28 | Nov. 3 | 73.79 |
| Feb. 3 | 65.15 | 12 | 61.38 | 18 | 68.25 | 10 | 76.95 |
| 10 | 64.23 | 19 | 64.45 | 25 | 68.60 | 17 | 73.98 |
| 17 | 65.54 | 26 | 64.80 | Sept. 3 | 69.21 | 24 | 72.80 |
| 24 | 65.41 | June 2 | 65.15 | 8 | 69.22 | Dec. 1 | 67.78 |
| Mar. 10 | 66.04 | 9 | 68.01 | 15 | 69.84 | 8 | 68.09 |
| 17 | 64.08 | 16 | 69.60 | 22 | 76.63 | 15 | 66.72 |
| 24 | 65.22 | 23 | 67.10 | 29 | 78.27 | 22 | 66.79 |
| 31 | 65.87 | July 7 | 66.96 | Oct. 6 | 75.47 | 29 | 63.35 |
| Apr. 7 | 63.30 | 14 | 64.40 | | | | |

79:54-1 (*1024, p. 218; 1072, p. 243). 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, 1947

| | | | | | | | |
|---------|-------|--------|-------|---------|-------|---------|-------|
| Jan. 7 | 70.58 | Apr. 8 | 71.98 | July 15 | 73.10 | Oct. 14 | 80.58 |
| 14 | 69.95 | 15 | 69.98 | 22 | 70.96 | 21 | 81.25 |
| 21 | 70.60 | 22 | 67.89 | 29 | 69.65 | 27 | 85.58 |
| 28 | 69.76 | 29 | 69.37 | Aug. 5 | 75.00 | Nov. 4 | 77.05 |
| Feb. 4 | 70.20 | May 6 | 70.64 | 12 | 72.30 | 11 | 85.68 |
| 11 | 69.89 | 20 | 72.45 | 19 | 72.10 | 18 | 74.68 |
| 18 | 70.53 | 27 | 73.00 | 26 | 72.05 | 25 | 89.04 |
| 25 | 70.31 | June 3 | 73.20 | Sept. 9 | 75.08 | Dec. 2 | 75.32 |
| Mar. 10 | 72.09 | 10 | 71.44 | 16 | 84.80 | 9 | 75.35 |
| 18 | 70.64 | 17 | 72.26 | 23 | 88.08 | 15 | 75.30 |
| 25 | 71.33 | 24 | 68.36 | 30 | 90.62 | 22 | 75.71 |
| Apr. 1 | 71.73 | July 8 | 64.70 | Oct. 7 | 77.55 | 30 | 69.63 |

79:61-1 (*1017, p. 336; 1024, p. 218; 1072, p. 243). Chickasaw Cooperage Co. In Memphis, in sub-basement of plant, about 50 feet north of Pershing Ave., and about 300 feet west of Scott St.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|---------|-------|---------|-------|---------|-------|--------|-------|
| Jan. 6 | 76.49 | Apr. 14 | 74.18 | July 14 | 69.90 | Oct. 6 | 80.25 |
| 13 | 78.85 | 21 | 72.69 | 21 | 72.35 | 13 | 76.90 |
| 27 | 75.76 | 28 | 72.80 | 28 | 72.24 | 20 | 79.84 |
| Feb. 3 | 78.79 | May 5 | 78.99 | Aug. 4 | 72.30 | 28 | 73.74 |
| 10 | 78.39 | 12 | 70.67 | 11 | 72.24 | Nov. 3 | 75.46 |
| 17 | 78.66 | 19 | 74.28 | 18 | 72.10 | 10 | 75.86 |
| 24 | 75.46 | 26 | 72.82 | 25 | 72.24 | 17 | 73.74 |
| Mar. 10 | 77.92 | June 2 | 73.77 | Sept. 3 | 72.17 | 24 | 72.50 |
| 17 | 78.01 | 9 | 74.11 | 8 | 72.28 | Dec. 2 | 72.32 |
| 24 | 77.07 | 16 | 74.05 | 15 | 72.28 | 22 | 80.64 |
| 31 | 77.30 | 23 | 70.10 | 22 | 84.14 | 29 | 80.52 |
| Apr. 7 | 75.98 | July 7 | 71.84 | 29 | 82.21 | | |

79:65-1 (*1024, p. 218; 1072, p. 244). 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, 1947

(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June |
|-----|--------|--------|--------|--------|----------|----------|
| 1 | 110.52 | 111.20 | 111.09 | 111.83 | 109.45 | ..... |
| 2 | 111.10 | 108.90 | 109.30 | 112.15 | 109.33 | all13.56 |
| 3 | 111.80 | 110.61 | 110.69 | 112.68 | 108.63 | all12.14 |
| 4 | 111.15 | 111.44 | 111.25 | 112.26 | 107.12 | 116.96 |
| 5 | 109.69 | 111.80 | 111.97 | 111.10 | 108.95 | 116.82 |
| 6 | 112.54 | 111.83 | 112.48 | 109.61 | 110.45 | 118.18 |
| 7 | 112.44 | 112.18 | 112.48 | 110.89 | 110.39 | 117.93 |
| 8 | 112.80 | 111.50 | 111.86 | 111.31 | 110.22 | 115.40 |
| 9 | 113.20 | 109.43 | 111.08 | 112.32 | 111.32 | 117.62 |
| 10 | 113.82 | 109.85 | 111.59 | 112.48 | 109.99 | 118.97 |
| 11 | 112.63 | 110.35 | 112.11 | 112.60 | 109.53 | 120.00 |
| 12 | 109.76 | 110.84 | 112.98 | 111.54 | 111.17 | 120.54 |
| 13 | 110.48 | 111.06 | 113.23 | 109.72 | 112.95 | 120.85 |
| 14 | 110.98 | 111.01 | 113.08 | 109.43 | 115.30 | 119.93 |
| 15 | 111.44 | 110.43 | 112.39 | 110.28 | 115.45 | 118.00 |
| 16 | 111.61 | 108.79 | 110.01 | 110.30 | 116.37 | 117.18 |
| 17 | 111.59 | 110.25 | 111.11 | 110.39 | 115.65 | 118.18 |
| 18 | 110.80 | 111.26 | 111.78 | 110.59 | 113.30 | 118.72 |
| 19 | 109.00 | 111.60 | 112.02 | 109.88 | 114.35 | 119.30 |
| 20 | 110.34 | 111.80 | 112.52 | 108.03 | 119.70 | 120.27 |
| 21 | 111.69 | 111.74 | 112.61 | 108.44 | 123.69 | 117.53 |
| 22 | 112.03 | 110.70 | 112.00 | 108.38 | 123.98 | 116.06 |
| 23 | 112.00 | 109.01 | 109.80 | 109.22 | 120.89 | 114.91 |
| 24 | 111.72 | 110.10 | 110.93 | 110.39 | 115.53 | 115.82 |
| 25 | 111.23 | 111.10 | 111.51 | 110.97 | 105.87 | 116.45 |
| 26 | 110.09 | 111.62 | 111.57 | 109.88 | 108.65 | 116.94 |
| 27 | 110.90 | 111.71 | 112.09 | 108.01 | all13.56 | 117.50 |
| 28 | 110.73 | 111.90 | 111.93 | 109.45 | ..... | 117.60 |
| 29 | 111.39 | | 111.07 | 109.55 | ..... | 115.83 |
| 30 | 111.16 | | 109.51 | 108.94 | ..... | 117.84 |
| 31 | 111.26 | | 111.00 |  | ..... |  |

Lowest daily water level, in feet below land-surface datum, 1947

(From recorder charts)

| Day | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|----------|--------|--------|----------|--------|--------|
| 1 | 119.05 | 124.94 | 120.80 | 120.02 | 117.32 | 110.33 |
| 2 | 119.93 | 124.79 | 123.11 | 121.02 | 115.21 | 111.67 |
| 3 | ..... | 122.55 | 124.00 | 121.91 | 115.99 | 111.73 |
| 4 | ..... | 123.81 | 124.55 | 119.85 | 116.58 | 111.84 |
| 5 | ..... | 124.79 | 124.77 | 117.48 | 116.41 | 112.23 |
| 6 | ..... | 125.47 | 125.39 | 119.67 | 116.58 | 111.92 |
| 7 | ..... | 125.53 | 123.76 | 119.27 | 116.76 | 110.32 |
| 8 | all14.53 | 125.05 | 125.91 | 121.04 | 115.37 | 111.13 |
| 9 | 118.17 | 124.32 | 126.95 | 120.02 | 113.59 | 111.65 |
| 10 | 118.67 | 120.76 | 127.10 | 121.18 | 113.62 | 111.92 |
| 11 | 118.77 | 122.92 | 127.42 | 118.91 | 113.15 | 112.00 |
| 12 | 117.63 | 123.40 | 127.74 | 117.03 | 114.51 | 111.98 |
| 13 | 115.70 | 123.76 | 127.10 | 119.72 | 114.01 | 111.35 |
| 14 | 117.59 | 124.11 | 125.06 | 120.60 | 114.71 | 109.42 |
| 15 | 118.40 | 124.70 | 124.39 | 121.48 | 113.98 | 109.99 |
| 16 | 118.69 | 123.82 | 124.21 | 121.72 | 111.87 | 110.49 |
| 17 | 119.38 | 120.27 | 124.21 | 121.18 | 112.60 | 110.91 |
| 18 | 121.48 | 122.70 | 124.95 | 119.75 | 113.27 | 111.50 |
| 19 | 121.07 | 123.73 | 125.05 | 118.41 | 114.17 | 111.80 |
| 20 | 118.82 | 124.51 | 123.88 | 120.51 | 113.80 | 111.76 |
| 21 | 118.26 | 125.17 | 122.02 | 119.81 | 113.70 | 109.01 |
| 22 | 118.87 | 125.33 | 123.21 | 121.81 | 113.51 | 109.33 |
| 23 | 119.45 | 124.19 | 123.08 | 121.88 | 111.66 | 110.28 |
| 24 | 119.58 | 122.28 | 121.10 | 121.86 | 112.91 | 110.05 |
| 25 | 121.08 | 123.23 | 122.60 | 119.60 | 112.64 | 108.42 |
| 26 | 120.93 | 124.15 | 122.78 | 117.66 | 112.90 | 107.78 |
| 27 | 118.25 | 124.22 | 122.11 | ..... | 112.20 | 107.17 |
| 28 | 121.45 | 124.48 | 119.05 | all16.73 | 112.42 | 105.96 |
| 29 | 123.22 | 124.93 | 120.90 | 118.80 | 112.17 | 107.65 |
| 30 | 124.54 | 124.10 | 121.61 | 118.67 | 110.10 | 109.85 |
| 31 | 124.75 | 121.91 | | 118.50 | | 110.48 |

a Tape measurement.

79:87-2 (*1072, p. 245). Illinois Central System. In Memphis, about 200 feet west of Barton St., and about 400 feet south of Gilbert Ave.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 7 | 70.25 | Apr. 15 | 84.26 | July 22 | 88.63 | Oct. 14 | 90.61 |
| 14 | 76.53 | 22 | 78.60 | 29 | 85.05 | 21 | 90.79 |
| 21 | 78.50 | 29 | 78.37 | Aug. 5 | 92.26 | 28 | 88.59 |
| 28 | 81.13 | May 6 | 77.50 | 12 | 82.70 | Nov. 4 | 91.80 |
| Feb. 4 | 80.42 | 13 | 84.20 | 19 | 84.70 | 11 | 90.67 |
| 11 | 81.84 | 20 | 80.00 | 26 | 85.04 | 18 | 85.88 |
| 18 | 81.46 | 27 | 84.85 | Sept. 2 | 87.65 | 25 | 92.24 |
| 25 | 85.98 | June 3 | 86.37 | 9 | 89.69 | Dec. 2 | 92.38 |
| Mar. 12 | 81.99 | 10 | 90.40 | 16 | 94.30 | 9 | 89.43 |
| 18 | 86.28 | 17 | 90.77 | 23 | 88.47 | 15 | 89.37 |
| 25 | 87.03 | 24 | 89.72 | 30 | 92.09 | 22 | 89.39 |
| Apr. 1 | 86.12 | July 8 | 89.85 | Oct. 7 | 93.55 | 30 | 88.57 |
| 8 | 82.93 | | | | | | |

79:105-1 (*1017, p. 336; 1024, p. 219; 1072, p. 245). Memphis Light, Gas and Water Division. In Memphis, in engine room, about 125 feet east of Kansas St., and about 250 feet south of McLemore Ave.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 7 | 106.60 | Apr. 15 | 107.17 | July 22 | 110.90 | Oct. 14 | 112.94 |
| 14 | 109.23 | 22 | 106.00 | 29 | 111.86 | 21 | 112.85 |
| 21 | 106.68 | 29 | 106.13 | Aug. 5 | 111.85 | 28 | 113.84 |
| 28 | 107.48 | May 6 | 105.94 | 12 | 111.38 | Nov. 4 | 114.83 |
| Feb. 4 | 105.91 | 13 | 97.32 | 19 | 111.80 | 11 | 111.90 |
| 11 | 106.27 | 20 | 109.89 | 26 | 111.80 | 18 | 112.85 |
| 18 | 108.79 | 27 | 110.00 | Sept. 2 | 111.85 | 25 | 111.85 |
| 26 | 108.98 | June 3 | 109.84 | 9 | 113.47 | Dec. 2 | 112.10 |
| Mar. 12 | 107.61 | 10 | 112.35 | 16 | 117.52 | 9 | 110.89 |
| 18 | 108.09 | 17 | 109.95 | 23 | 118.07 | 15 | 107.89 |
| 25 | 107.35 | 24 | 110.95 | 30 | 114.85 | 22 | 109.60 |
| Apr. 1 | 109.32 | July 8 | 109.98 | Oct. 7 | 114.60 | 30 | 108.86 |
| 8 | 109.04 | 15 | 110.95 | | | | |

79:122-1 (*1072, p. 245). Reed Bros. Dairy. In Memphis, about 125 feet north of Beechwood Ave., and about 150 feet west of Bellevue Blvd.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|----------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 7 | 118.58 | Mar. 25 | 118.99 | July 15 | 119.84 | Sept. 30 | 129.24 |
| 14 | 119.70 | Apr. 1 | 119.38 | 22 | 122.70 | Oct. 7 | 125.35 |
| 21 | 119.09 | 8 | 119.48 | 29 | 124.94 | 14 | 128.79 |
| 28 | 120.03 | 15 | 119.50 | Aug. 5 | 123.10 | 21 | 131.04 |
| Feb. 4 | 120.61 | 22 | 118.53 | 12 | 122.90 | 28 | 131.89 |
| 11 | 118.66 | 29 | 118.25 | 19 | 125.16 | Nov. 4 | 130.28 |
| 18 | 119.96 | May 6 | 116.45 | 26 | 123.10 | 11 | 124.39 |
| 25 | 119.36 | 13 | 117.48 | Sept. 2 | 124.85 | 18 | 125.24 |
| Mar. 4 | 119.60 | 20 | 131.89 | 9 | 124.17 | 25 | 124.19 |
| 10 | 121.02 | June 10 | 123.85 | 16 | 132.42 | Dec. 31 | 119.66 |
| 18 | 119.89 | July 8 | 124.55 | 23 | 131.40 | | |

79:142-1 (*1072, p. 246). Welsh Lumber Co. In Memphis, about 500 feet west of Florida St., and about 1,000 feet south of Bodley Ave.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 7 | 27.38 | Apr. 15 | 26.30 | July 22 | 27.98 | Oct. 14 | 31.73 |
| 14 | 27.06 | 22 | 25.58 | 29 | 28.95 | 21 | 30.89 |
| 21 | 27.36 | 29 | 24.84 | Aug. 5 | 31.10 | 28 | 30.90 |
| 28 | 25.91 | May 6 | 24.22 | 12 | 30.60 | Nov. 4 | 31.70 |
| Feb. 4 | 25.93 | 13 | 24.50 | 19 | 31.35 | 11 | 30.98 |
| 11 | 26.48 | 20 | 26.43 | 26 | 32.77 | 18 | 30.90 |
| 18 | 26.95 | 27 | 27.59 | Sept. 2 | 31.95 | 25 | 30.90 |
| 25 | 27.16 | June 3 | 27.75 | 9 | 31.57 | Dec. 2 | 30.70 |
| Mar. 12 | 28.39 | 10 | 28.15 | 16 | 34.08 | 9 | 30.72 |
| 18 | 28.19 | 17 | 29.98 | 23 | 34.27 | 16 | 30.47 |
| 25 | 27.70 | 24 | 28.10 | 30 | 32.49 | 23 | 29.15 |
| Apr. 1 | 27.83 | July 8 | 27.84 | Oct. 7 | 34.22 | 30 | 27.88 |
| 8 | 27.33 | 15 | 28.20 | | | | |

79:148-1D. War Assets Administration, Sloanville. On property formerly known as the Chickasaw Ordnance Works, about 3 miles west of Millington and about 75 feet south of Shelby Rd. Unused well, diameter 24 to 16 inches, depth 1,530 feet. Measuring point, top of 24-inch casing, 0.6 foot above land-surface datum and about 265 feet above mean sea level.

Water level, in feet below land-surface datum, 1946-47

| Date | Water level | Date | Water level | Date | Water level |
|---------------|-------------|---------------|-------------|---------------|-------------|
| Aug. 19, 1946 | 34.54 | Apr. 21, 1947 | 33.20 | Aug. 18, 1947 | 36.56 |
| 28 | 34.45 | May 5 | 33.35 | Sept. 3 | 36.55 |
| Jan. 8, 1947 | 34.47 | 19 | 34.01 | 15 | 36.52 |
| 20 | 33.97 | June 2 | 36.85 | 29 | 37.89 |
| Feb. 3 | 33.80 | 16 | 34.40 | Oct. 13 | 36.57 |
| 17 | 34.17 | July 7 | 36.25 | 27 | 37.66 |
| Mar. 10 | 38.37 | 21 | 35.37 | Nov. 10 | 37.14 |
| 24 | 33.82 | Aug. 4 | 36.20 | 24 | 38.90 |
| Apr. 7 | 34.04 | | | | |

79:149-1 (*1024, p. 219; 1072, p. 246). National Fireworks, Inc. About 125 feet west of Brunswick Rd., about 1.3 miles north of Brunswick, on U. S. Navy proving range. Measurements discontinued temporarily after Nov. 26.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|----------|-------------|---------|-------------|----------|-------------|
| Jan. 29 | 5.50 | Apr. 9 | 4.62 | July 9 | 4.24 | Sept. 17 | 3.56 |
| Feb. 12 | 5.23 | 23 a | 1.49 | 23 | 5.20 | Oct. 1 | 3.88 |
| 26 | 5.20 | May 7 a | 3.46 | Aug. 6 | 4.24 | 15 | 3.74 |
| Mar. 12 | 5.49 | June 4 a | 6.01 | 20 a | 1.59 | 29 | 4.24 |
| 26 | 5.39 | 18 a | 4.04 | Sept. 4 | 3.97 | Nov. 26 | 4.04 |

a Pumping.

79:154-1 (*1017, p. 336; 1024, p. 219; 1072, p. 246). O. T. Smith Dairy. About 400 feet east of Airways Rd., and 0.55 mile south of Raines Rd., in shed. In use; measurements discontinued after Apr. 22.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|--------|-------------|
| Jan. 7 | 62.15 | Feb. 4 | 55.09 | Mar. 12 | 57.12 | Apr. 8 | 66.36 |
| 14 | 60.63 | 11 | 54.08 | 18 | 59.12 | 15 | 66.99 |
| 21 | 58.72 | 18 | 54.90 | 25 | 62.55 | 22 | 68.14 |
| 28 | 56.63 | 25 | 55.99 | Apr. 1 | 64.68 | | |

79:167-1 (*1024, p. 220; 1072, p. 246). City of Collierville. About 75 feet east of Main St., and about 750 feet south of State Highway 57, in engine room of Collierville waterworks.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 15 | 99.66 | Apr. 23 | 98.35 | July 23 | 98.42 | Oct. 15 | 99.90 |
| 29 | 99.26 | May 7 | 100.40 | Aug. 6 | 99.45 | 29 | 99.90 |
| Feb. 12 | 99.55 | 21 | 99.52 | 20 | 99.64 | Nov. 11 | 98.90 |
| 26 | 98.46 | June 4 | 101.34 | Sept. 4 | 99.67 | 26 | 99.88 |
| Mar. 12 | 99.40 | 18 | 98.34 | 17 | 99.87 | Dec. 12 | 98.63 |
| 26 | 98.44 | July 9 | 98.31 | Oct. 1 | 98.56 | 30 | 98.36 |
| Apr. 9 | 100.50 | | | | | | |

79:174-1 (*1072, p. 247). J. O. Goshorn Co. In Memphis, about 250 feet south of Bodley Ave., and about 500 feet east of S. Third St.

Lowest daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 22.65 | 20.44 | 22.72 | 22.89 | 20.98 | ..... | 21.36 | 23.53 | 24.45 | 25.64 | 24.71 | ..... |
| 2 | 22.57 | 20.50 | 22.77 | 22.93 | 20.93 | ..... | 21.19 | 23.62 | 24.52 | 25.67 | 24.45 | 24.25 |
| 3 | 21.65 | 20.59 | 22.82 | 22.98 | 20.91 | ..... | 20.82 | 23.69 | 24.57 | 25.69 | 24.35 | 24.25 |
| 4 | 21.99 | 20.87 | 22.82 | 22.93 | 20.94 | 21.15 | 20.83 | 23.73 | 24.61 | 25.70 | 24.38 | ..... |
| 5 | 22.10 | 20.95 | 22.80 | 22.96 | 21.14 | 21.15 | 20.84 | 23.75 | 24.65 | 25.68 | 24.34 | ..... |
| 6 | 22.15 | 21.15 | 22.79 | 23.05 | 21.11 | 21.14 | 20.83 | 23.79 | 24.74 | ..... | 24.37 | ..... |

a Tape measurement.

79:174-1--Continued.

Lowest daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 7 | 22.14 | 21.40 | 22.77 | 23.06 | 21.31 | 21.15 | 20.78 | 23.85 | 24.80 | 25.70 | 24.34 | ..... |
| 8 | 22.11 | 21.61 | 22.55 | 23.02 | 21.29 | 21.17 | 20.70 | 23.89 | 24.84 | 25.75 | 24.25 | ..... |
| 9 | 22.04 | 21.89 | 22.33 | 22.92 | 21.29 | 21.19 | 20.65 | 23.93 | 24.86 | 25.79 | 24.33 | 24.18 |
| 10 | 21.94 | 22.04 | 22.33 | 22.81 | 21.27 | 21.20 | 20.65 | 24.00 | 24.91 | 25.81 | 24.34 | 24.22 |
| 11 | 21.78 | 22.17 | 22.33 | 22.47 | 21.24 | 21.26 | 20.74 | 24.04 | 24.95 | 25.83 | 24.36 | 24.24 |
| 12 | 21.77 | 22.27 | 22.35 | 21.25 | 21.21 | 21.30 | 20.86 | 24.08 | 25.98 | 25.88 | 23.89 | 24.27 |
| 13 | 21.93 | 22.31 | 22.30 | 21.09 | 21.14 | 21.31 | 20.99 | 24.11 | 25.03 | 25.90 | 23.94 | 24.30 |
| 14 | 22.04 | 22.33 | 22.46 | 20.80 | 20.96 | 21.27 | 21.08 | 24.14 | 25.07 | 25.92 | 23.93 | 24.30 |
| 15 | 22.04 | 22.40 | 22.55 | 20.53 | 21.16 | 21.28 | 21.21 | 24.17 | 25.11 | 25.92 | 23.19 | ..... |
| 16 | 21.75 | 22.51 | 22.58 | 20.14 | 21.55 | 21.25 | 21.44 | 24.08 | 25.13 | 25.95 | 23.40 | 23.47 |
| 17 | 21.73 | 22.56 | 22.68 | 19.99 | 21.75 | 21.18 | 21.70 | 24.16 | 25.15 | 25.99 | 23.50 | 23.50 |
| 18 | 21.40 | 22.60 | 22.72 | 20.32 | 21.90 | 21.04 | 22.00 | 24.21 | 25.20 | 26.01 | 23.50 | ..... |
| 19 | 21.47 | 22.60 | 22.72 | 20.74 | 21.90 | 20.93 | 22.37 | 24.24 | 25.20 | 26.00 | 23.58 | ..... |
| 20 | 21.49 | 22.52 | 22.79 | 21.07 | 21.92 | 20.80 | 22.68 | 24.31 | 25.24 | 26.03 | 23.64 | ..... |
| 21 | 21.67 | 22.55 | 22.95 | 21.09 | 21.89 | 20.61 | 22.76 | 24.37 | 25.29 | 26.04 | 23.68 | ..... |
| 22 | 21.68 | 22.53 | 22.90 | 21.07 | 21.98 | 20.51 | 22.85 | 24.41 | 25.31 | 26.06 | 23.74 | ..... |
| 23 | 21.61 | 22.60 | 22.84 | 20.97 | 22.03 | 20.66 | 22.96 | 24.45 | 25.33 | 26.09 | 23.75 | 23.60 |
| 24 | 21.41 | 22.66 | 22.67 | 20.86 | 22.03 | 20.73 | 23.05 | 24.50 | 24.98 | 26.10 | 23.78 | ..... |
| 25 | 21.01 | 22.73 | 22.71 | 21.14 | 21.77 | 20.97 | 23.12 | 24.50 | 25.44 | 26.14 | 23.88 | ..... |
| 26 | 20.77 | 22.77 | 22.79 | 21.14 | 21.74 | 21.03 | 23.17 | 24.52 | 25.48 | 26.12 | 23.99 | ..... |
| 27 | 20.70 | 22.79 | 22.73 | 21.05 | 21.69 | 21.07 | 23.25 | 24.34 | 25.52 | 26.02 | 24.05 | ..... |
| 28 | 20.64 | 22.76 | ..... | 21.07 | 21.59 | 21.21 | 23.29 | 24.15 | 25.56 | 25.21 | 24.07 | ..... |
| 29 | 20.56 | ..... | ..... | 21.09 | ..... | 21.26 | 23.35 | 24.22 | 25.61 | 25.20 | 24.15 | ..... |
| 30 | 20.38 | ..... | ..... | 21.03 | ..... | 21.31 | 23.41 | 24.31 | 25.63 | 25.23 | 24.14 | 24.03 |
| 31 | 20.29 | ..... | ..... | ..... | ..... | ..... | 23.47 | 24.38 | ..... | 25.23 | ..... | 24.07 |

a Tape measurement.

79:175-1 (*1024, p. 220; 1072, p. 247). 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, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 15 | 60.30 | Apr. 23 | 60.36 | July 23 | 62.17 | Oct. 15 | 61.25 |
| 29 | 60.11 | May 7 | 60.37 | Aug. 6 | 60.55 | 29 | 61.25 |
| Feb. 12 | 60.57 | 21 | 60.02 | 20 | 60.70 | Nov. 11 | 61.88 |
| 26 | 60.62 | June 4 | 60.40 | Sept. 4 | 61.13 | 26 | 62.36 |
| Mar. 12 | 60.13 | 18 | 62.25 | 17 | 61.89 | Dec. 12 | 61.17 |
| 26 | 60.41 | July 9 | 60.37 | Oct. 1 | 61.00 | 30 | 61.06 |
| Apr. 9 | 60.51 | | | | | | |

79:176-1. Gulf Refining Co. In Memphis, about 750 feet south of Mallory Ave., and about 925 feet west of Fisher St. Unused well, diameter 6 to 4 inches, depth 390 feet. Measuring point, bottom edge of discharge pipe, 2.2 feet above land-surface datum.

Water level, in feet above land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 8 | 40.74 | Apr. 15 | 38.94 | July 22 | 41.00 | Oct. 14 | 41.17 |
| 14 | 40.46 | 22 | 38.18 | 29 | 40.90 | 21 | 41.28 |
| 21 | 40.63 | 29 | 37.47 | Aug. 5 | 45.75 | 28 | 43.35 |
| 28 | 39.41 | May 6 | 37.50 | 12 | 41.58 | Nov. 4 | 43.30 |
| Feb. 4 | 39.39 | 13 | 38.90 | 19 | 40.90 | 11 | 41.37 |
| 11 | 39.10 | 20 | 39.12 | 26 | 40.90 | 18 | 41.25 |
| 18 | 40.54 | 27 | 40.15 | Sept. 2 | 41.11 | 25 | 41.35 |
| 25 | 40.47 | June 3 | 39.08 | 9 | 45.30 | Dec. 2 | 41.32 |
| Mar. 12 | 41.53 | 10 | 40.35 | 16 | 45.95 | 9 | 42.81 |
| 18 | 41.27 | 17 | 41.65 | 23 | 46.11 | 16 | 42.63 |
| 25 | 40.81 | 24 | 39.25 | 30 | 41.33 | 23 | 42.82 |
| Apr. 1 | 40.78 | July 8 | 40.60 | Oct. 7 | 43.64 | 30 | 37.55 |
| 8 | 38.52 | 15 | 40.64 | | | | |

VIRGINIA

INTRODUCTION

The two programs of water-level measurements, begun in June 1928 in cooperation with the Virginia Geological Survey, were continued in 1947. 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 300 individual measurements of water level was made during 1947 by the wetted-tape method.

In addition to the six observation wells maintained in northern Virginia there are also two recording rain gages maintained in the area near Fairfax near the headwaters of Difficult Run.^{1/} These were also serviced weekly and the charts were mailed to the U. S. Weather Bureau office at Albany, N. Y., for publication.^{2/}

Fluctuations of water level

Inasmuch as the 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 1947, which are representative of the

^{1/} Water levels and artesian pressure in observation wells in the United States in 1946: Geol. Survey Water-Supply Paper 1072, p.

^{2/} Hydrologic Bulletin (hourly and daily precipitation) North Atlantic District: U. S. Dept. of Commerce, Weather Bureau, in cooperation with Corps of Engineers, U. S. Army.

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, 1947
(From Monthly Meteorological Summary, U. S. Weather Bureau)

| Month | Recorded precipitation | Normal precipitation | Departure from normal | Accumulated departure from normal |
|-----------|---------------------------|-------------------------|-----------------------------|---|
| January | 3.72 | 3.55 | +0.17 | +0.17 |
| February | 1.65 | 3.27 | -1.62 | -1.45 |
| March | 1.24 | 3.75 | -2.51 | -3.96 |
| April | 3.37 | 3.27 | +1.10 | -3.86 |
| May | 4.05 | 3.70 | +1.35 | -3.51 |
| June | 5.76 | 4.13 | 1.63 | -1.88 |
| July | 5.35 | 4.71 | +1.64 | -1.24 |
| August | 3.68 | 4.01 | -.33 | -1.57 |
| September | 3.70 | 3.24 | +1.46 | -1.11 |
| October | 1.31 | 2.84 | -1.53 | -2.64 |
| November | 5.09 | 2.37 | +2.72 | +1.08 |
| December | 1.47 | 3.32 | -1.85 | -1.77 |
| Year | 40.39 | 42.16 | -1.77 | -1.77 |

It will be seen from the preceding table that the precipitation was 1.77 inches below normal in 1947 in contrast to the 7.42 inches below-normal precipitation recorded in 1946. This increase in precipitation, although not a return to normal, is reflected in a small net rise in water levels in most of the wells in the northern Virginia area.

The following table has been compiled from data for 1947 on the six wells in northern Virginia. It shows the water 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.

Summary of water levels in 6 observation wells in northern Virginia
in 1947

(Net change and range, in feet; water levels, in feet below
land-surface datum)

| Well | Water level Jan. 6 | Water level Dec. 29 | Net change | Highest level | Lowest level | Range in level |
|-------------|-----------------------|------------------------|---------------|------------------|-----------------|-------------------|
| Ross | 24.10 | 23.85 | +0.25 | 22.07 | 24.10 | 2.03 |
| Halls Hill | 27.68 | 28.69 | -1.01 | 25.84 | 28.69 | 2.85 |
| Jefferson c | 24.86 | 24.95 | -.09 | 23.00 | 26.38 | 3.38 |
| Bell | 3.75 | d 3.89 | -.14 | .96 | 8.26 | 7.30 |
| Swart | .95 | 1.56 | -.61 | .59 | 2.19 | 1.60 |
| Bacon a | 17.22 | b 16.23 | +1.99 | 15.48 | 17.48 | 2.00 |
| a | Jan. 1. | | | | | |
| b | Dec. 31. | | | | | |
| c | Jan. 13. | | | | | |
| d | Nov. 17. | | | | | |

As indicated by this summary the greatest rise in water level occurred in the Bacon well, near Fairfax, where the water level was 0.99 foot higher at the end of the year than at the beginning. The greatest range in water-level fluctuation occurred in the Bell well, near Tysons Crossroads, where the difference between the highest and lowest stages was 7.30 feet.

The average net rise for the four deepest wells, the Bacon, Halls Hill, Jefferson, and Ross wells,^{3/} was 0.035 foot, indicating a negligible increase in ground-water storage since December 1946. With the exception of the Halls Hill and Ross wells, the lowest water levels recorded during 1947 in the other four wells occurred during the period from August 17 to October 20. The lowest stage in the Halls Hill well occurred at the end of December 1947 and in the Ross well about the first of January 1947.

The highest water levels recorded during the year occurred near the end of July in the Halls Hill and Ross wells, during the third week of March in the Bacon and Jefferson wells, and during the third week of January and of May in the Swart and Bell wells, respectively. The staggered effect of these high water levels was due for the most part to the recharge which occurred as a result of the above-normal precipitation which fell throughout the spring and summer months, with the exception of March and August which had less than normal rainfall.

Well descriptions and water-level measurements

Arlington County

Halls Hill well (*777, pp. 250, 253-258; 817, p. 482; 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; 1072, p. 251). On Lee Highway, at Langston School.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|--------|-------------|
| Jan. 6 | 27.68 | Apr. 7 | 27.31 | July 8 | 25.99 | Oct. 6 | 27.66 |
| 13 | 27.73 | 14 | 27.27 | 14 | 25.97 | 13 | 27.87 |
| 20 | 27.16 | 21 | 27.25 | 21 | 25.91 | 20 | 28.04 |
| 27 | 27.22 | 28 | 27.30 | 28 | 25.84 | 27 | 28.24 |
| Feb. 3 | 27.17 | May 6 | 27.14 | Aug. 4 | 25.99 | Nov. 3 | 28.32 |
| 10 | 27.26 | 12 | 27.18 | 11 | 26.23 | 10 | 28.46 |
| 17 | 27.34 | 19 | 27.10 | 18 | 26.43 | 17 | 28.13 |
| 24 | 27.41 | 26 | 27.01 | 25 | 26.60 | 24 | 28.06 |
| Mar. 3 | 27.48 | June 2 | 26.79 | Sept. 2 | 26.74 | Dec. 1 | 28.46 |
| 10 | 27.57 | 9 | 26.75 | 8 | 27.02 | 9 | 28.52 |
| 17 | 27.19 | 16 | 26.06 | 15 | 27.13 | 15 | 28.59 |
| 24 | 27.09 | 23 | 26.03 | 22 | 27.25 | 22 | 28.61 |
| 31 | 27.43 | 30 | 26.00 | 29 | 27.52 | 29 | 28.69 |

Ross well (*777, pp. 250, 254-258; 817, pp. 480, 482; 840, p. 623; 845, p. 678; 886, p. 906; 907, p. 107; 937, p. 101; 945, p. 130; 987, p. 165; 1017, p. 343; 1024, p. 224; 1072, p. 252). At 1918 North Wayne Street, Rosslyn.

^{3/} The average net rise of 1.33 feet for the four deepest wells (Bacon, Halls Hill, Jefferson and Ross) was omitted on p. 224 in Water-Supply Paper 1024.

Ross well--Continued.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|--------|-------------|---------|-------------|--------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 6 | 24.10 | Apr. 7 | 23.42 | July 8 | 22.19 | Oct. 6 | 23.29 |
| 13 | 23.97 | 14 | 23.40 | 14 | 22.19 | 13 | 23.38 |
| 20 | 23.76 | 21 | 23.40 | 21 | 22.14 | 20 | 23.49 |
| 27 | 23.59 | 28 | 23.41 | 28 | 22.07 | 27 | 23.62 |
| Feb. 3 | 23.37 | May 6 | 23.37 | Aug. 4 | 22.20 | Nov. 3 | 23.69 |
| 10 | 23.35 | 12 | 23.34 | 11 | 22.37 | 10 | 23.74 |
| 17 | 23.34 | 19 | 23.32 | 18 | 22.52 | 17 | 23.52 |
| 24 | 23.40 | 26 | 23.27 | 25 | 22.61 | 24 | 23.39 |
| Mar. 3 | 23.49 | June 2 | 23.15 | Sept. 2 | 22.72 | Dec. 1 | 23.55 |
| 10 | 23.56 | 9 | 23.04 | 8 | 22.88 | 9 | 23.67 |
| 17 | 23.44 | 16 | 22.53 | 15 | 22.98 | 15 | 23.74 |
| 24 | 23.44 | 23 | 22.16 | 22 | 23.08 | 22 | 23.79 |
| 31 | 23.48 | 30 | 22.11 | 29 | 23.17 | 29 | 23.85 |

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. 344; 1024, p. 225; 1072, p. 252). 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, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 17.22 | 15.79 | 15.99 | 15.62 | 15.80 | 15.69 | 16.05 | 17.04 | 16.86 | 15.97 | 16.73 | 15.89 |
| 2 | 17.20 | 15.78 | 15.97 | 15.59 | 15.78 | 15.89 | 16.09 | 17.07 | 16.83 | 15.97 | 16.77 | 15.89 |
| 3 | 17.13 | 15.78 | 15.99 | 15.61 | 15.80 | 15.89 | 16.14 | 17.10 | 16.83 | 15.98 | 16.78 | 15.89 |
| 4 | 16.87 | 15.73 | 16.03 | 15.64 | 15.81 | 15.95 | 16.18 | 17.13 | 16.84 | 15.99 | 16.76 | 15.89 |
| 5 | 16.77 | 15.72 | 16.06 | 15.63 | 15.81 | 15.96 | 16.23 | 17.14 | 16.84 | 16.00 | 16.77 | 15.90 |
| 6 | 16.73 | 15.73 | 16.07 | 15.62 | 15.83 | 15.96 | 16.26 | 17.17 | 16.84 | 16.02 | 16.81 | 15.90 |
| 7 | 16.71 | 15.73 | 16.07 | 15.65 | 15.83 | 15.98 | 16.29 | 17.20 | 16.67 | 16.03 | 16.34 | 15.93 |
| 8 | 16.68 | 15.73 | 16.03 | 15.67 | 15.86 | 15.94 | 16.30 | 17.23 | 16.54 | 16.03 | 16.76 | 15.92 |
| 9 | 16.66 | 15.74 | 16.03 | 15.66 | 15.89 | 15.93 | 16.32 | 17.25 | 16.52 | 16.06 | 16.50 | 15.96 |
| 10 | 16.65 | 15.77 | 16.04 | 15.70 | 15.91 | 15.93 | 16.38 | 17.29 | 16.50 | 16.09 | 16.49 | 15.97 |
| 11 | 16.62 | 15.79 | 16.04 | 15.69 | 15.92 | 15.96 | 16.41 | 17.32 | 16.41 | 16.11 | 16.47 | 15.97 |
| 12 | 16.61 | 15.80 | 16.01 | 15.63 | 15.93 | 15.93 | 16.45 | 17.33 | 16.33 | 16.14 | 16.27 | 15.99 |
| 13 | 16.60 | 15.81 | 15.95 | 15.73 | 15.93 | 16.01 | 16.48 | 17.35 | 16.29 | 16.19 | 16.12 | 16.00 |
| 14 | 16.59 | 15.81 | 15.81 | 15.72 | 15.93 | 16.01 | 16.52 | 17.38 | 16.27 | 16.19 | 16.07 | 16.02 |
| 15 | 16.56 | 15.78 | 15.63 | 15.72 | 15.99 | 15.38 | 16.54 | 17.41 | 16.22 | 16.22 | 16.02 | 16.05 |
| 16 | 16.48 | 15.79 | 15.63 | 15.71 | 15.99 | 15.86 | 16.57 | 17.45 | 16.22 | 16.25 | 15.97 | 16.02 |
| 17 | 16.44 | 15.83 | 15.59 | 15.72 | 16.00 | 15.86 | 16.61 | 17.48 | 16.22 | 16.27 | 15.94 | 16.06 |
| 18 | 16.39 | 15.83 | 15.59 | 15.74 | 15.91 | 15.87 | 16.64 | 17.38 | 16.21 | 16.28 | 15.94 | 16.06 |
| 19 | 16.36 | 15.86 | 15.60 | 15.75 | 15.90 | 15.27 | 16.68 | 17.39 | 16.20 | 16.30 | 15.91 | 16.08 |
| 20 | 16.27 | 15.88 | 15.57 | 15.75 | 15.90 | 15.89 | 16.73 | 17.42 | 16.18 | 16.36 | 15.90 | 16.10 |
| 21 | 16.16 | 15.85 | 15.56 | 15.76 | 15.92 | 15.91 | 16.76 | 17.19 | 16.16 | 16.39 | 15.90 | 16.10 |
| 22 | 16.12 | 15.86 | 15.55 | 15.79 | 15.93 | 15.92 | 16.72 | 17.12 | 16.14 | 16.43 | 15.90 | 16.11 |
| 23 | 16.06 | 15.88 | 15.56 | 15.80 | 15.89 | 15.93 | 16.76 | 17.07 | 16.16 | 16.47 | 15.86 | 16.11 |
| 24 | 16.00 | 15.90 | 15.52 | 15.79 | 15.88 | 15.93 | 16.81 | 17.04 | 16.16 | 16.52 | 15.81 | 16.13 |
| 25 | 15.98 | 15.91 | 15.48 | 15.80 | 15.86 | 15.93 | 16.84 | 17.02 | 16.12 | 16.56 | 15.81 | 16.14 |
| 26 | 15.95 | 15.93 | 15.53 | 15.82 | 15.87 | 15.95 | 16.87 | 17.00 | 16.00 | 16.58 | 15.82 | 16.14 |
| 27 | 15.91 | 15.95 | 15.58 | 15.82 | 15.87 | 15.97 | 16.90 | 16.98 | 15.99 | 16.60 | 15.85 | 16.14 |
| 28 | 15.89 | 15.98 | 15.57 | 15.86 | 15.87 | 15.99 | 16.93 | 16.95 | 15.99 | 16.61 | 15.85 | 16.16 |
| 29 | 15.85 | | 15.57 | 15.86 | 15.85 | 16.01 | 16.95 | 16.91 | 15.96 | 16.63 | 15.86 | 16.22 |
| 30 | 15.81 | | 15.59 | 15.86 | 15.87 | 16.04 | 16.98 | 16.89 | 15.96 | 16.66 | 15.88 | 16.22 |
| 31 | 15.78 | | 15.62 | | 15.89 | | 17.02 | ..... |  | 16.69 | | 16.23 |

Bell well (*777, pp. 250, 254-258; 817, p. 482; 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; 1072, p. 253). At Ash Grove, about 1 mile northwest of Tysons Crossroads on State Highway 7 (Leesburg pike).

Bell well--Continued.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|--------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 6 | 3.75 | Mar. 10 | 2.05 | May 12 | 2.78 | Aug. 4 | 5.39 |
| 13 | 4.86 | 17 | 1.72 | 19 | 2.20 | 11 | 6.22 |
| 22 | 1.14 | 24 | 2.61 | 26 | .96 | 18 | 7.05 |
| 27 | 1.69 | 31 | 3.05 | June 2 | 2.63 | 25 | 7.60 |
| Feb. 3 | 3.06 | Apr. 7 | 2.83 | 16 | 1.59 | Sept. 8 | 4.83 |
| 10 | 3.74 | 14 | 3.29 | 23 | 3.33 | 15 | 6.80 |
| 17 | 4.06 | 21 | 3.05 | 30 | 3.88 | Oct. 6 | 7.03 |
| 24 | 4.38 | 28 | 3.66 | 14 | 2.54 | 20 | 8.26 |
| Mar. 3 | 3.67 | May 6 | 1.51 | 28 | 4.54 | Nov. 17 | 3.89 |

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; 1072, p. 253). In Falls Church, near southeast corner of Jefferson School.

| Water level, in feet below land-surface datum, 1947 | | | | | | | |
|---|-------------|---------|-------------|---------|-------------|---------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 13 | 24.86 | Apr. 14 | 23.07 | July 14 | 23.80 | Oct. 13 | (a) |
| 20 | 24.24 | 21 | 23.12 | 21 | 23.72 | 20 | (a) |
| 27 | 23.79 | 28 | 23.25 | 28 | 23.98 | 27 | (a) |
| Feb. 3 | 23.43 | May 6 | 23.28 | Aug. 4 | 24.39 | Nov. 3 | (a) |
| 10 | 23.35 | 12 | 23.39 | 11 | 24.83 | 10 | T |
| 17 | 23.33 | 19 | 23.57 | 18 | 25.29 | 17 | 25.53 |
| 24 | 23.41 | 26 | 23.42 | 25 | 25.59 | 24 | 25.20 |
| Mar. 3 | 23.50 | June 2 | 23.49 | Sept. 2 | 25.89 | Dec. 1 | 25.30 |
| 10 | 23.37 | 9 | 23.53 | 8 | 26.38 | 9 | 25.17 |
| 17 | 23.11 | 16 | 23.10 | 15 | (a) | 15 | 25.13 |
| 24 | 23.00 | 23 | 23.09 | 22 | (a) | 22 | 24.94 |
| 31 | 23.12 | 30 | 23.39 | 29 | T | 29 | 24.95 |
| Apr. 7 | 23.05 | July 8 | 23.91 | Oct. 6 | T | | |

a Dry.

T - Trace.

Swart well (#817, pp. 482, 484; 840, p. 626; 845, p. 683; 886, p. 910; 907, p. 111; 937, p. 105; 945, p. 133; 987, p. 170; 1017, p. 345; 1024, p. 226; 1072, p. 253). 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, 1947 | | | | | | | |
|---|-------------|--------|-------------|----------|-------------|--------|-------------|
| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
| Jan. 6 | 0.95 | Apr. 7 | 1.39 | July 8 | 1.67 | Oct. 6 | 2.19 |
| 13 | 1.27 | 14 | 1.37 | 14 | 1.77 | 13 | 1.81 |
| 20 | .59 | 21 | 1.30 | 21 | 1.81 | 20 | 1.89 |
| 27 | .91 | 28 | 1.57 | 28 | 1.86 | 27 | 1.94 |
| Feb. 3 | 1.23 | May 5 | 1.17 | Aug. 4 | 1.78 | Nov. 3 | 1.75 |
| 10 | 1.28 | 12 | 1.61 | 11 | 2.05 | 10 | 1.46 |
| 17 | 1.29 | 19 | 1.09 | 18 | 1.58 | 17 | 1.47 |
| 24 | 1.21 | 26 | 1.21 | 25 | 1.60 | 24 | 1.44 |
| Mar. 3 | 1.16 | June 2 | 1.72 | Sept. 2 | 1.62 | Dec. 1 | 1.54 |
| 10 | .96 | 9 | 1.05 | 8 | 1.24 | 9 | 1.47 |
| 17 | .93 | 16 | 1.14 | 15 | 1.59 | 15 | 1.50 |
| 24 | 1.09 | 23 | 1.66 | 22 | 1.58 | 22 | 1.52 |
| Mar. 31 | 1.30 | 30 | 1.69 | Sept. 29 | 1.63 | 29 | 1.56 |

SOUTHEASTERN VIRGINIA

By Allen Sinnott

Program of work

At the end of the year, there were five observation wells included in the program. Three of these wells were equipped with automatic water-

stage recorders actuated by floats. Generally the depth to water level was also measured by means of a weighted tape once a week. In all, 295 measurements were made during 1947.

A report on the ground-water resources of the York-James peninsula in Virginia was virtually completed by D. J. Cederstrom. Additional data were collected on the ground-water resources of the northern part of the coastal plain, in preparation for another report, by the present writer, covering this area. A report on the geology and ground-water resources of the coastal plain in southeastern Virginia was prepared by D. J. Cederstrom, and is to be published as Bulletin 63 of the Virginia Geological Survey.

Fluctuations of water level

Chesterfield County (Petersburg area)

Measurements were continued on the Pilcher well near Petersburg, Chesterfield County well 36. During the winter months the water level rose gradually to a high of 14.74 feet below land-surface datum on March 25, followed by a gradual decline of over 2 feet until June 17, when the level was 16.08 feet below land surface. After a slight rise during July, there was a gradual decline until measurements were interrupted on September 15, when the stage was 16.71 feet below land surface.

Rainfall for the year at Richmond was 2.82 inches below normal. The heaviest rainfall occurred in September and November, when 3.78 and 2.96 inches, respectively, above normal was recorded. Apparently the September rains occurred too late to be reflected in the water levels in the Pilcher well before measurements were interrupted. Correlation of water levels with the precipitation at Richmond was not evident during the first eight months of 1947, possibly because rainfall in the vicinity of the well was somewhat different from that recorded for Richmond.

Prince George County (Hopewell area)

Measurements of water level were continued during 1947 at well 13, at the Old Dominion Water Corporation in Hopewell. Artificial recharge, in order to store cold water underground for reuse during the warm summer months, was apparently begun at the nearby Solvay Process Company early in January 1947. During the first $4\frac{1}{2}$ months of 1947, the water level averaged about 36 feet below land surface. Artificial recharge apparently

ceased about the middle of March; water levels then gradually declined until May 19, when summer pumping began. By mid-June the water level had dropped sharply to 50 feet below the surface, where it remained with only minor changes until pumping was discontinued in November. The water level rose gradually during December, but artificial recharge had apparently not yet begun by the end of the year.

Sussex County

Weekly measurements of water levels in the Jeb S. White well, at Wakefield, in Sussex County, were continued in 1947. The total fluctuation was only about 2 feet; the levels, in general, were about 1 foot below those of 1946. This decline is attributed to heavy industrial withdrawals at Franklin, 20 miles to the south-southeast.

Isle of Wight and Southampton Counties (Franklin area)

Measurements made in 1947 on well 161, at Franklin, Isle of Wight County, showed that the water levels continued a gradual decline of about a foot below the corresponding levels of 1946. This decline results from the almost continuous heavy pumping at the Chesapeake-Camp Corporation pulp mill in the Franklin area. Temporary shutdown of either of the two pumping wells at the mill results in brief recovery of the water level. Thus, the measurement on July 7 showed more than a 6-foot rise in water level compared with the previous week; by the end of July, the level had declined again.

Measurements at the observation well owned by the city of Franklin showed that water levels were 1 to 4 feet lower in 1947 than in 1946, although at the end of December the water level had recovered sufficiently to equal that of 1946.

Warwick County (York-James peninsula)

Measurements were continued on Milstead well 1, at Fort Eustis, in Warwick County, on the lower York-James peninsula. Water levels fluctuated within narrow limits in response to variations in discharge of ground water at Fort Eustis. During the early part of the year, water levels were about the same as those for the corresponding period in 1946, but by March were about 2 feet higher than for that year. The levels continued to remain somewhat higher than those of 1946 during the remainder of the year, although by the end of December they were again nearly the same.

Well descriptions and water-level measurements

Chesterfield County

36 (*886, p. 913; 907, p. 119; 937, p. 112; 945, p. 151; 987, p. 166; 1017, p. 343; 1024, p. 231; 1072, p. 257). Pilcher well. At Matoaka Manor, 3 miles north of Petersburg. Equipped with automatic water-stage recorder. Recorder removed and measurements temporarily discontinued after Sept. 15.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|--------|-------------|---------|-------------|
| Jan. 7 | 16.76 | Mar. 12 | 15.60 | May 13 | 15.61 | July 15 | 15.32 |
| 14 | 16.57 | 18 | 15.15 | 20 | 15.77 | 23 | 15.26 |
| 20 | 16.00 | 25 | 14.74 | June 3 | 15.70 | 29 | 15.38 |
| 28 | 15.22 | Apr. 1 | 14.81 | 10 | 16.01 | Aug. 18 | 16.00 |
| Feb. 3 | 15.18 | 8 | 15.03 | 17 | 16.08 | 25 | 16.19 |
| 11 | 15.22 | 15 | 15.11 | 24 | 16.05 | Sept. 1 | 16.44 |
| 17 | 15.30 | 22 | 15.14 | July 1 | 15.83 | 8 | 16.61 |
| 24 | 15.45 | 29 | 15.24 | 8 | 15.46 | 15 | 18.71 |
| Mar. 3 | 15.58 | May 7 | 15.55 | | | | |

Isle of Wight County

161 (*945, p. 151; 987, p. 171; 1017, p. 345; 1024, p. 232; 1072, p. 258). Chesapeake-Camp Corporation.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|--------|-------|--------|-------|---------|-------|--------|-------|
| Jan. 6 | 18.09 | Apr. 7 | 18.85 | July 7 | 12.93 | Oct. 6 | 19.94 |
| 14 | 18.22 | 14 | 19.02 | 14 | 17.79 | 13 | 19.14 |
| 20 | 18.19 | 21 | 19.03 | 21 | 18.76 | 20 | 19.76 |
| 27 | 18.39 | 28 | 19.17 | 23 | 19.18 | 27 | 19.82 |
| Feb. 3 | 18.59 | May 5 | 19.09 | Aug. 4 | 19.15 | Nov. 3 | 19.37 |
| 10 | 18.80 | 12 | 19.32 | 11 | 19.43 | 10 | 19.43 |
| 17 | 18.93 | 19 | 19.06 | 18 | 19.75 | 17 | 19.52 |
| 24 | 18.63 | 26 | 19.49 | 25 | 19.88 | 24 | 19.32 |
| Mar. 3 | 18.33 | June 2 | 19.57 | Sept. 1 | 19.86 | Dec. 1 | 19.47 |
| 10 | 18.39 | 9 | 19.58 | 8 | 19.96 | 8 | 19.33 |
| 17 | 18.31 | 16 | 19.62 | 15 | 20.00 | 15 | 19.14 |
| 24 | 18.36 | 23 | 19.67 | 22 | 20.06 | 22 | 19.15 |
| 31 | 18.78 | 30 | 19.59 | 29 | 19.88 | 29 | 18.90 |

Prince George County

13 (*886, p. 914; 907, p. 119; 937, p. 113; 945, p. 152; 987, p. 171; 1017, p. 346; 1024, p. 231; 1072, p. 257). Old Dominion Water Corporation, in Hopewell.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|--------|-------|--------|-------|---------|-------|--------|-------|
| Jan. 3 | 34.56 | Apr. 4 | 36.41 | July 4 | 50.61 | Oct. 3 | 50.91 |
| 10 | 36.76 | 11 | 36.41 | 11 | 50.84 | 10 | 50.81 |
| 17 | 36.66 | 18 | 35.11 | 18 | 50.76 | 17 | 50.76 |
| 24 | 36.66 | 25 | 36.36 | 25 | 51.06 | 24 | 51.11 |
| 31 | 39.01 | May 2 | 37.36 | Aug. 1 | 50.86 | 31 | 50.76 |
| Feb. 7 | 37.66 | 9 | 36.51 | 8 | 50.91 | Nov. 7 | 50.26 |
| 14 | 36.21 | 16 | 35.51 | 15 | 50.94 | 14 | 45.31 |
| 21 | 34.86 | 23 | 42.21 | 22 | 49.90 | 21 | 41.91 |
| 28 | 35.36 | 30 | 46.66 | 29 | 51.11 | 28 | 42.26 |
| Mar. 7 | 35.26 | June 6 | 48.66 | Sept. 5 | 51.06 | Dec. 5 | 38.66 |
| 14 | 29.26 | 13 | 49.56 | 12 | 51.01 | 12 | 38.21 |
| 21 | 35.46 | 20 | 50.16 | 19 | 51.06 | 19 | 38.16 |
| 28 | 36.11 | 27 | 50.26 | 26 | 50.96 | 26 | 36.26 |

Southampton County

29 (*945, p. 152; 987, p. 172; 1017, p. 347; 1024, p. 231; 1072, p. 258). Virginian Railway. At Sebrell. No measurements made in 1947.

89 (*945, p. 152; 987, p. 172; 1017, p. 347; 1024, p. 231; 1072, p. 258). Southampton County courthouse. At Courtland. No measurements made in 1947.

205 (*945, p. 153; 987, p. 172; 1017, p. 347; 1024, p. 231; 1072, p. 258). City of Franklin.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|--------|-------------|---------|-------------|--------|-------------|
| Jan. 4 | 25.8 | Apr. 5 | 25.3 | July 5 | 19.0 | Oct. 4 | 26.0 |
| 11 | 26.0 | 12 | 25.2 | 12 | 24.5 | 11 | 26.5 |
| 18 | 25.5 | 19 | 25.5 | 19 | 26.5 | 18 | 27.3 |
| 25 | 25.3 | 26 | 26.0 | 26 | 27.0 | 25 | 27.5 |
| Feb. 1 | 19.5 | May 3 | 26.2 | Aug. 2 | 27.3 | Nov. 1 | 26.0 |
| 8 | 25.3 | 10 | 26.3 | 9 | 27.3 | 8 | 25.5 |
| 15 | 25.5 | 17 | 26.5 | 16 | 27.5 | 15 | 26.0 |
| 22 | 25.5 | 24 | 26.7 | 23 | 27.0 | 22 | 25.8 |
| Mar. 1 | 25.8 | 31 | 26.5 | 30 | 25.5 | 29 | 25.5 |
| 8 | 26.0 | June 7 | 26.8 | Sept. 6 | 25.3 | Dec. 6 | 25.7 |
| 15 | 26.2 | 14 | 26.0 | 13 | 25.8 | 13 | 25.8 |
| 22 | 26.0 | 21 | 26.2 | 20 | 25.5 | 20 | 25.5 |
| 29 | 25.5 | 28 | 26.5 | 27 | 25.8 | 27 | 24.5 |

Sussex County

90 (*907, p. 120; 937, p. 114; 945, p. 153; 987, p. 173; 1017, p. 347; 1024, p. 232; 1072, p. 258) Jeb S. White well. In Wakefield.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|--------|-------|--------|-------|---------|-------|--------|-------|
| Jan. 6 | 71.00 | Apr. 7 | 71.23 | July 7 | 72.40 | Oct. 6 | 72.35 |
| 13 | 71.33 | 14 | 71.18 | 14 | 72.58 | 13 | 71.89 |
| 20 | 70.80 | 22 | 71.64 | 21 | 72.47 | 20 | 71.90 |
| 27 | 71.19 | 28 | 71.59 | 28 | 72.77 | 27 | 71.83 |
| Feb. 3 | 71.00 | May 5 | 71.97 | Aug. 4 | 72.76 | Nov. 3 | 71.82 |
| 10 | 71.24 | 12 | 71.63 | 11 | 72.75 | 10 | 71.88 |
| 18 | 71.41 | 19 | 70.78 | 18 | 72.83 | 17 | 71.69 |
| 24 | 71.31 | 26 | 71.86 | 25 | 72.65 | 24 | 71.57 |
| Mar. 3 | 71.45 | June 2 | 72.32 | Sept. 1 | 72.50 | Dec. 1 | 71.77 |
| 10 | 71.19 | 9 | 72.50 | 8 | 72.73 | 8 | 71.56 |
| 17 | 70.80 | 16 | 72.22 | 15 | 72.29 | 15 | 71.70 |
| 24 | 71.28 | 23 | 71.33 | 22 | 72.64 | 22 | 71.15 |
| 31 | 71.30 | 30 | 72.34 | 30 | 72.27 | 29 | 71.54 |

Warwick County

Milstead 1 (*937, p. 114; 945, p. 153; 987, p. 173; 1017, p. 347; 1024, p. 233; 1072, p. 259). At Fort Eustis. Equipped with automatic water-stage recorder.

Water level, in feet above land-surface datum, 1947

| | | | | | | | |
|--------|------|---------|------|---------|------|---------|------|
| Jan. 3 | 4.80 | Apr. 11 | 5.95 | July 10 | 4.30 | Oct. 10 | 5.20 |
| 10 | 4.65 | 18 | 5.90 | 17 | 4.65 | 17 | 5.47 |
| 17 | 4.28 | 25 | 6.28 | 24 | 4.87 | 23 | 5.02 |
| 24 | 4.20 | May 2 | 5.90 | 30 | 5.00 | 30 | 5.40 |
| 31 | 4.70 | 9 | 5.95 | Aug. 6 | 5.48 | Nov. 6 | 5.60 |
| Feb. 7 | 3.57 | 16 | 5.95 | 12 | 4.87 | 13 | 5.41 |
| 13 | 4.26 | 23 | 6.00 | 22 | 5.26 | 19 | 5.49 |
| 21 | 4.40 | June 2 | 5.85 | 29 | 4.86 | 26 | 5.33 |
| 27 | 4.30 | 9 | 6.26 | Sept. 5 | 4.79 | Dec. 3 | 5.55 |
| Mar. 7 | 4.38 | 13 | 5.71 | 12 | 3.99 | 11 | 5.92 |
| 14 | 5.09 | 20 | 5.67 | 19 | 4.03 | 18 | 5.22 |
| 21 | 5.35 | 27 | 5.15 | 26 | 4.78 | 24 | 4.81 |
| 28 | 5.10 | July 3 | 5.25 | Oct. 3 | 5.00 | 31 | 4.84 |
| Apr. 4 | 5.72 | | | | | | |

WEST VIRGINIA

By R. L. Griggs

PROGRAM OF WORK

The observation-well program in West Virginia was continued in 1947 in cooperation with the West Virginia Geological and Economic Survey as part of the investigation of the ground-water resources of the State. Periodic measurements of water levels were made in 13 wells during the year, and single measurements were made in several other wells. Automatic water-stage recorders were maintained on four wells, and measurements by the wetted-tape method were made periodically in nine wells. A total of 2,096 water-level measurements are given in this report of which 315 were made by tape and 1,781 were taken from recorder charts.

FLUCTUATIONS OF WATER LEVEL

Seven of the observation wells maintained during the year are drilled to artesian aquifers in bedrock, six being drilled to sandstones of Pennsylvanian age and one to a sandstone of Mississippian age. Three of the wells are in alluvium adjacent to the Ohio River, and three are shallow water-table wells. In general, fluctuations of water levels in the State follow a similar pattern in each of these three types of wells.

Fluctuations of water level in the bedrock wells are primarily related to the amount of pumpage from the aquifers as all of these wells are in areas where at least some pumpage takes place. Water-level measurements of some of these wells showed the effect of heavy summer pumpage, as in the case of wells 40-5-14, 42-4-1, and 11-3-8, and a measurement made in August in well 42-4-1 showed the lowest level for the period of record on this well. The levels in well 39-1-6A showed a net decline of approximately 15 feet between January and December. This well penetrates the same aquifer as do two nearby wells which supply the town of Buffalo, and it appears that the safe yield of the aquifer is being exceeded. One well, 9-6-27 at Morgantown, has had a net rise of water level of close to

35 feet since the beginning of 1946, and between January and October 1947, when the last measurement was made, there was a net rise of approximately 19 feet. As the hydrographs of this well for these years do not show the distinct summer lows as in previous years, it appears that this rise of water level has been caused, in part, by a decrease in pumpage from the aquifer. It appears that the precipitation of the year, 6.51 inches below normal, had no serious effects on the bedrock wells.

In the alluvium wells, along the Ohio River, water levels are related primarily to the stage of the adjacent river, and as in the case of the two observation wells at Parkersburg, to the amount of nearby pumpage from the alluvium. Toward the end of the year wells 27-3-20 and 27-3-22, at Parkersburg, had water levels that were lower than those of former years. In part, this was probably due to low river stages in the spring of the year, when the alluvium receives important recharge, and in part, to a different distribution of pumped wells in the well field. Well 50-1-5A, at Kenova, indicated that water levels in its vicinity were below normal during the year, largely due to low river stages during the early part of the year.

Well 40-3-1, a shallow water-table well at Nitro, reflected the precipitation of the year. Its water level was at a record high in January when the monthly precipitation was above normal, and toward the end of the year, when precipitation was below normal, its water level dropped to low stages.

WELL-NUMBERING SYSTEM

Observation wells in West Virginia have been assigned segmented numbers in which the first segment indicates the location of the well by county, the second segment indicates the location by magisterial district within the county, and the third segment is the identifying number assigned to an individual well within the magisterial district. In keeping with this system, the counties are numbered consecutively in a general southward direction, beginning with Hancock County at the northern tip of the State. The magisterial districts within each county have been numbered consecutively according to the same plan. Thus, in the segmented number 9-6-27 that is assigned to a well in Morgantown, 9 represents Monongalia County, 6 represents Morgan district, and 27 represents a well in that district.

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Fayette County

42-1-1 (*987, p. 182; 1017, p. 356; 1024, p. 237; 1072, p. 265). J. H. Simms. In Boomer, Falls district, southeast of crossroads. No measurements made in 1947.

42-4-1 (*945, p. 158; 987, p. 182; 1017, p. 356; 1024, p. 238; 1072, p. 265). Baldwin Supply Co. At Montgomery, Kanawha district.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|----------|-------------|----------|-------------|
| Feb. 21 | 31.32 | June 10 | 30.83 | Aug. 16 | 35.49 | Sept. 25 | 27.62 |
| Mar. 11 | 27.31 | July 9 | 29.49 | Sept. 18 | 28.02 | Oct. 25 | 28.22 |

42-4-2 (*945, p. 158; 987, p. 182; 1017, p. 356; 1024, p. 238; 1072, p. 265). Virginian Railway Co. At Deepwater, Kanawha district. No measurements made in 1947.

Harrison County

12-2-26 (*945, p. 158; 987, p. 182; 1017, p. 356; 1024, p. 238; 1072, p. 265). City of Lumberport. At Lumberport, along Jones Creek, 0.5 mile northwest of State Highway 20, Eagle district. No measurements made in 1947.

Jackson County

30-2-1 (*945, p. 159; 987, p. 182; 1017, p. 357; 1024, p. 238; 1072, p. 265). City of Ravenswood. In Ravenswood, Ravenswood district, at old waterworks plant. Well covered, no measurements made in 1947.

30-2-2 (*987, p. 183; 1017, p. 357; 1024, p. 238; 1072, p. 265). City of Ravenswood. In Ravenswood, Ravenswood district, at old waterworks plant. Well covered, no measurements made in 1947.

Kanawha County

40-3-1 (*945, p. 159; 987, p. 183; 1017, p. 357; 1024, p. 238; 1072, p. 265). L. T. Smith. At Nitro, Union district, along 40th Street, 0.45 mile west of U. S. Highway 35.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|--------|------|---------|------|----------|------|---------|-------|
| Jan. 9 | 3.93 | Mar. 10 | 5.50 | June 16 | 4.40 | Oct. 21 | 10.30 |
| 20 | 2.84 | 18 | 4.90 | 30 | 7.86 | 28 | 10.54 |
| 26 | 3.24 | Apr. 14 | 6.22 | July 10 | 8.85 | Nov. 3 | 10.69 |
| Feb. 1 | 5.31 | 19 | 7.02 | Sept. 23 | 6.88 | 10 | 10.85 |
| 10 | 6.86 | 25 | 7.05 | 27 | 7.29 | 24 | 10.78 |
| 20 | 4.61 | 30 | 6.69 | Oct. 6 | 9.28 | Dec. 8 | 10.94 |
| 27 | 6.31 | May 15 | 7.97 | 15 | 9.97 | 27 | 10.14 |
| Mar. 4 | 4.42 | | | | | | |

40-5-14 (*937, p. 117; 945, p. 159; 987, p. 183; 1017, p. 357; 1024, p. 238; 1072, p. 266). Coyle & Richardson Department Store. At Charleston, Charleston district. Automatic water-stage recorder installed on May 12.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|--------|-------|--------|-------|---------|-------|---------|-------|
| Jan. 2 | 32.12 | Feb. 7 | 31.57 | Mar. 13 | 31.24 | Apr. 17 | 33.81 |
| 9 | 32.12 | 14 | 31.52 | 21 | 32.66 | 24 | 33.98 |
| 17 | 31.82 | 20 | 31.43 | 27 | 32.86 | May 2 | 33.10 |
| 23 | 31.29 | 27 | 31.44 | Apr. 3 | 33.44 | 8 | 32.70 |
| 30 | 31.55 | Mar. 6 | 31.48 | 10 | 32.50 | 12 | 32.45 |

40-5-14--Continued.

Lowest daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | ..... | 34.56 | 40.17 | 40.96 | 37.20 | 35.42 | 34.40 | 33.52 |
| 2 | ..... | 37.94 | 40.36 | 41.07 | 41.57 | 35.36 | 34.25 | 33.56 |
| 3 | ..... | 36.55 | 39.35 | 36.63 | 41.62 | 35.30 | 34.18 | 33.52 |
| 4 | ..... | 37.69 | 35.49 | 41.07 | 41.70 | 36.08 | 34.25 | 33.48 |
| 5 | ..... | 39.45 | 35.50 | 41.38 | 41.60 | 35.60 | 34.15 | 33.46 |
| 6 | ..... | 38.80 | 35.08 | 41.47 | 41.65 | 35.68 | 34.17 | 33.45 |
| 7 | ..... | 39.15 | 39.74 | 41.60 | 37.40 | 35.77 | 34.14 | 33.40 |
| 8 | ..... | 35.20 | 38.65 | 41.32 | 41.22 | 35.77 | 34.00 | 33.45 |
| 9 | ..... | 39.06 | 39.55 | 41.52 | 41.52 | 35.68 | 33.95 | 33.48 |
| 10 | ..... | 38.94 | 40.03 | 36.85 | 41.60 | 35.62 | 33.80 | 33.44 |
| 11 | ..... | 39.35 | 40.45 | 41.41 | 41.73 | 35.94 | 33.68 | 33.40 |
| 12 | ..... | 39.17 | 40.50 | 41.70 | 41.75 | 35.73 | 33.85 | 33.42 |
| 13 | 32.47 | 39.17 | 35.64 | 41.88 | 41.78 | 35.56 | 33.97 | 33.37 |
| 14 | 32.56 | 39.64 | 40.10 | 41.85 | 37.50 | 35.55 | 33.95 | 33.27 |
| 15 | 33.87 | 35.47 | 40.62 | 41.78 | 41.20 | 35.57 | 33.80 | 33.08 |
| 16 | 36.85 | 37.09 | 40.62 | 41.86 | 40.97 | 35.60 | 33.72 | 33.44 |
| 17 | 38.16 | 37.06 | 39.95 | 37.18 | 40.12 | 35.57 | 33.87 | 33.40 |
| 18 | 34.27 | 36.75 | 40.75 | 41.72 | 40.10 | 36.24 | 33.85 | 33.30 |
| 19 | 37.52 | 37.55 | 40.80 | 41.71 | 41.60 | 35.60 | 33.80 | 33.37 |
| 20 | 36.50 | 38.16 | 36.28 | 42.00 | 41.94 | 35.49 | 33.85 | 33.30 |
| 21 | ..... | 39.14 | 40.70 | ..... | 36.97 | 35.48 | 33.78 | 33.12 |
| 22 | ..... | 35.15 | 38.41 | 42.03 | 39.11 | 35.40 | 33.70 | 33.10 |
| 23 | 37.22 | 38.77 | 37.76 | 42.05 | 36.20 | 35.25 | 33.60 | 33.30 |
| 24 | 37.50 | 39.11 | 38.98 | 37.60 | 36.67 | 35.05 | 33.57 | 33.27 |
| 25 | 34.95 | 38.11 | 40.42 | 41.56 | 36.85 | 35.28 | 33.67 | 33.12 |
| 26 | 37.30 | 39.20 | 40.73 | 41.85 | 36.78 | 35.15 | 33.70 | 33.12 |
| 27 | 38.35 | 39.34 | 36.35 | 41.92 | 36.27 | 35.05 | 33.65 | 33.12 |
| 28 | 39.19 | 39.48 | 40.47 | 41.87 | 35.92 | 34.90 | 33.55 | 33.07 |
| 29 | 39.30 | 35.66 | 40.62 | 42.05 | 36.02 | 34.85 | 33.58 | 33.10 |
| 30 | 35.84 | 39.84 | 40.68 | 42.07 | 35.55 | 34.52 | 33.55 | 33.12 |
| 31 | 35.79 | | 40.87 | 37.47 | | 34.43 | | 33.12 |

40-5-15 (*945, p. 159; 987, p. 183; 1017, p. 357; 1024, p. 238; 1072, p. 266). Valley Bell Dairy. At Charleston, Charleston district, along Delmar Avenue, 600 feet from Roane Avenue. No measurements made in 1947.

Mason County

38-3-3 (*945, p. 160; 987, p. 183; 1017, p. 358; 1024, p. 239; 1072, p. 266). West Virginia Industrial School. At Lakin, Robinson district. No measurements made in 1947.

38-3-4 (*945, p. 160; 987, p. 184; 1017, p. 358; 1024, p. 239; 1072, p. 266). V. K. Smith. At Kaylong, Robinson district, 1 mile south of post office. No measurements made in 1947.

38-3-5 (*945, p. 160; 987, p. 185; 1017, p. 358; 1024, p. 239; 1072, p. 266). Homer Smith. At Kaylong, Robinson district, 1.2 miles south of Lakin. No measurements made in 1947.

38-3-12 (*1017, p. 363; 1024, p. 241; 1072, p. 266). C. C. Lewis. 1.1 miles south of York Station, Robinson district. No measurements made in 1947.

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, West Virginia, and partly in Wayne township, Green County, Pennsylvania. 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; 1072, p. 267). D. C. Johnson. At Blacksville. No measurements made in 1947.

9-2-2 (*937, p. 117; 945, p. 161; 987, p. 186; 1017, p. 364; 1024, p. 241; 1072, p. 267). Earl Miller. At sawmill in Blacksville. No measurements made in 1947.

9-2-2A (*987, p. 186; 1017, p. 364; 1024, p. 241; 1072, p. 267.). Earl Miller. At sawmill in Blacksville. No measurements made in 1947.

9-6-1 (*937, p. 117; 945, p. 161; 987, p. 187; 1017, p. 364; 1024, p. 241; 1072, p. 267). Baltimore & Ohio Railroad. At mouth of Aaron's Creek, in Sabraton, Morgan district. Flowing well.

Rate of flow, in gallons a minute, 1947

| Date | Rate of flow | Date | Rate of flow | Date | Rate of flow | Date | Rate of flow |
|---------|--------------|---------|--------------|---------|--------------|---------|--------------|
| Jan. 8 | 27.0 | Mar. 10 | 21.0 | June 2 | 26.4 | Aug. 25 | 24.0 |
| 16 | 27.0 | 18 | 21.0 | 16 | 24.0 | Sept. 9 | 22.5 |
| 24 | 28.0 | 31 | 22.5 | 23 | 22.0 | 18 | 21.0 |
| 31 | 25.5 | Apr. 21 | 22.5 | 30 | 21.0 | 22 | 21.0 |
| Feb. 10 | 21.0 | 28 | 21.0 | July 7 | 21.0 | 30 | 21.0 |
| 17 | 24.0 | May 12 | 22.5 | 14 | 22.5 | Oct. 7 | 24.0 |
| 25 | 22.5 | 19 | 24.0 | 21 | 24.0 | 14 | 21.0 |
| Mar. 4 | 24.0 | 26 | 24.0 | Aug. 11 | 19.0 | | |

9-6-27 (*937, p. 118; 945, p. 161; 987, p. 187; 1017, p. 364; 1024, p. 241; 1072, p. 267). T. J. Johnson. At Morgantown, Morgan district, east end of Foundry Street.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|--------|-------------|---------|-------------|
| Jan. 8 | 131.38 | Mar. 26 | 124.20 | June 9 | 113.99 | Aug. 12 | 113.40 |
| 16 | 130.73 | 31 | 123.74 | 16 | 114.58 | 18 | 113.22 |
| 24 | 130.31 | Apr. 21 | 121.17 | 23 | 114.33 | 25 | 112.24 |
| 31 | 129.79 | 28 | 119.80 | 30 | 114.13 | Sept. 2 | 112.74 |
| Feb. 10 | 128.56 | May 5 | 117.77 | July 7 | 113.18 | 9 | 112.70 |
| 17 | 127.79 | 12 | 117.12 | 14 | 112.93 | 22 | 111.97 |
| 25 | 127.85 | 19 | 115.95 | 21 | 113.51 | 30 | 112.09 |
| Mar. 4 | 126.80 | 26 | 115.03 | 26 | 113.28 | Oct. 7 | 111.28 |
| 10 | 126.07 | June 2 | 114.07 | Aug. 1 | 113.93 | 14 | 111.20 |
| 18 | 125.11 | | | | | | |

9-6-45 (#937, p. 118; 945, p. 161; 987, p. 187; 1017, p. 364; 1024, p. 241). Deckers Creek Sand Co. At Greer, Morgan district below sand quarry.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 8 | 10.95 | Mar. 31 | 10.80 | June 16 | 10.86 | Aug. 18 | 11.35 |
| 16 | 10.40 | Apr. 12 | 11.22 | 23 | 11.46 | 25 | 11.49 |
| 24 | 10.63 | 28 | 11.02 | 30 | 11.53 | Sept. 9 | 11.81 |
| 31 | 10.55 | May 12 | 10.91 | July 7 | 11.55 | 22 | 11.28 |
| Feb. 17 | 11.10 | 19 | 10.60 | 14 | 11.17 | 30 | 11.72 |
| Mar. 4 | 11.29 | 26 | 10.65 | 21 | 11.02 | Oct. 7 | 12.80 |
| 10 | 11.02 | June 2 | 10.91 | 26 | 11.22 | 14 | 22.87 |
| 18 | 10.72 | 9 | 9.61 | Aug. 11 | 11.42 | | |

9-6-46 (#987, p. 187; 1017, p. 364; 1024, p. 241). W. L. Madire. In Morgantown, Morgan district, at 132 Prairie Street, about 100 feet southwest of corner of Prairie Street and University Avenue.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|--------|-------------|---------|-------------|
| Jan. 6 | 10.88 | Mar. 24 | 12.60 | June 9 | 14.81 | Aug. 18 | 13.88 |
| 13 | 10.90 | Apr. 1 | 12.07 | 16 | 13.69 | 25 | 13.09 |
| 20 | 2.10 | 7 | 12.04 | 23 | 14.88 | Sept. 1 | 13.50 |
| 27 | 4.40 | 14 | 11.90 | 30 | 13.79 | 8 | 13.49 |
| Feb. 3 | 10.70 | 21 | 12.90 | July 7 | 13.38 | 15 | 13.70 |
| 10 | 10.90 | 28 | 13.70 | 14 | 13.54 | Oct. 6 | 14.40 |
| 17 | 7.70 | -May 5 | 13.29 | 21 | 13.20 | 13 | 14.60 |
| 24 | 9.20 | 12 | 13.20 | 28 | 13.03 | 20 | 14.50 |
| Mar. 3 | 13.80 | 19 | 12.69 | Aug. 4 | 13.86 | Nov. 3 | 14.21 |
| 10 | 12.30 | 26 | 13.54 | 11 | 13.90 | 10 | 14.10 |
| 17 | 12.15 | June 2 | 14.84 | | | | |

Preston County

11-3-3 (#937, p. 118; 945, p. 162; 987, p. 188; 1017, p. 365; 1024, p. 242; 1072, p. 267). Preston County Coal & Coke Co. At Cascade, Valley district, about 0.7 mile east of post office. Measurements discontinued.

11-3-3A (#987, p. 189; 1017, p. 365; 1024, p. 242; 1072, p. 268). Preston Coal & Coke Co. At Cascade, Valley district, 0.7 mile east of post office, on terrace east of Decker's Creek, 150 feet south of State Highway 7. No measurements made in 1947.

11-3-4 (#937, p. 118; 945, p. 162; 987, p. 189; 1017, p. 365; 1024, p. 242; 1072, p. 268). Masontown well 4. At Oak Park, Valley district. No measurements made in 1947.

11-3-8 (#937, p. 119; 945, p. 162; 987, p. 189; 1017, p. 365; 1024, p. 242; 1072, p. 268). G. F. Lemmons. At Masontown, Valley district, east Depot Street.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 16.17 | 16.28 | 15.08 | 15.29 | 18.81 | 19.02 | 15.39 | 15.65 | 19.30 | 19.52 |
| 2 | 15.49 | 16.17 | 15.29 | 15.69 | 18.79 | 18.85 | 15.65 | 16.00 | 19.20 | 19.30 |
| 3 | 15.14 | 15.49 | 15.66 | 15.76 | 18.78 | 19.38 | 16.00 | 16.30 | 19.18 | 19.27 |
| 4 | 15.02 | 15.15 | 15.52 | 15.89 | 19.37 | 19.47 | 16.08 | 16.25 | 18.84 | 19.20 |
| 5 | 14.87 | 15.02 | 15.89 | 16.27 | 19.50 | 19.64 | 15.88 | 16.08 | 18.82 | 18.90 |
| 6 | 14.75 | 15.08 | 16.27 | 16.55 | 19.12 | 19.62 | 15.91 | 16.15 | 18.44 | 18.82 |
| 7 | 15.08 | 15.67 | 16.55 | 17.15 | 17.93 | 19.12 | 16.15 | 16.66 | 18.22 | 18.44 |
| 8 | 15.67 | 15.88 | 17.15 | 17.67 | 16.99 | 17.93 | 16.53 | 16.68 | 17.91 | 18.22 |
| 9 | 16.05 | 16.57 | 17.67 | ..... | 16.70 | 17.01 | 16.50 | 16.92 | 17.71 | 17.91 |
| 10 | 16.57 | 16.74 | 18.47 | 18.71 | 16.52 | 16.70 | 16.92 | 17.05 | 17.65 | 17.72 |

11-3-8--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 11 | 16.72 | 16.88 | 18.71 | 19.15 | 14.78 | 16.60 | 17.02 | 17.25 | 17.61 | 17.72 |
| 12 | 16.81 | 16.96 | 19.15 | 19.33 | 12.75 | 15.62 | 17.25 | 17.55 | 17.58 | 17.70 |
| 13 | 16.92 | 17.00 | 19.20 | 19.33 | 10.69 | 13.05 | 17.55 | 17.80 | 17.49 | 17.62 |
| 14 | 16.85 | 16.93 | 18.40 | 19.20 | 7.70 | 10.69 | 17.80 | 17.92 | 17.51 | 17.75 |
| 15 | 13.36 | 16.87 | 17.65 | 18.40 | 7.85 | 10.21 | 17.83 | 18.11 | 17.55 | 17.72 |
| 16 | 13.20 | 16.87 | 17.26 | 17.65 | 10.00 | 10.71 | 18.09 | 18.20 | 17.40 | 17.55 |
| 17 | 12.27 | 14.45 | 17.28 | 17.43 | 10.51 | 12.33 | 17.95 | 18.30 | 17.27 | 17.40 |
| 18 | 14.45 | 14.65 | 17.27 | 17.43 | 12.33 | 14.20 | 18.30 | 18.64 | 16.80 | 17.27 |
| 19 | 14.65 | 14.73 | 17.43 | 17.52 | 14.20 | 15.10 | 18.60 | 18.81 | 16.61 | 16.80 |
| 20 | 7.15 | 14.73 | 17.34 | 17.50 | 15.01 | 15.60 | 18.80 | 19.00 | 16.35 | 16.45 |
| 21 | 7.37 | 12.78 | 17.34 | 17.50 | 15.60 | 15.86 | 19.00 | 19.21 | 16.24 | 16.42 |
| 22 | 12.78 | 13.67 | 17.45 | 17.62 | 15.86 | 16.50 | 19.21 | 19.42 | 16.42 | 16.54 |
| 23 | 13.03 | 15.78 | 17.59 | 17.80 | 16.50 | 16.68 | 19.40 | 19.48 | 16.23 | 16.41 |
| 24 | 14.06 | 14.30 | 17.80 | 18.18 | 12.95 | 16.68 | 19.40 | 19.66 | 16.20 | 16.25 |
| 25 | 14.30 | 14.53 | 18.28 | 18.46 | 11.06 | 12.95 | 19.49 | 19.70 | 16.17 | 16.34 |
| 26 | 12.43 | 14.47 | 18.46 | 18.70 | 11.56 | 11.80 | 19.70 | 19.83 | 16.12 | 16.30 |
| 27 | 11.90 | 13.79 | 18.67 | 18.90 | 11.80 | 12.47 | 19.61 | 19.81 | 15.83 | 16.12 |
| 28 | 13.79 | 14.11 | 18.90 | 19.06 | 11.97 | 12.78 | 19.80 | 19.93 | 15.80 | 15.85 |
| 29 | 14.10 | 14.41 | | | 11.74 | 12.75 | 19.60 | 19.85 | 15.83 | 16.19 |
| 30 | 14.39 | 14.59 | | | 12.75 | 14.12 | 19.51 | 19.60 | 16.18 | 16.40 |
| 31 | 14.59 | 15.08 | | | 14.12 | 15.39 | | | 16.40 | 16.57 |

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | June | | July | | August | | September | | October | |
|-----|-------|-------|-------|-------|--------|-------|-----------|-------|---------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 16.55 | 16.67 | 19.63 | 19.68 | 19.16 | 19.26 | 20.15 | 20.25 | 20.20 | 20.30 |
| 2 | 16.67 | 16.87 | 19.69 | 19.80 | 19.26 | 19.38 | ..... | ..... | 20.26 | 20.34 |
| 3 | 16.87 | 17.44 | 19.79 | 19.84 | 13.70 | 19.43 | 20.42 | 20.60 | 20.33 | 20.39 |
| 4 | 17.44 | 17.65 | 19.82 | 19.89 | 17.45 | 18.70 | 20.57 | 20.66 | 20.34 | 20.44 |
| 5 | 17.65 | 17.78 | 19.82 | 20.00 | 17.77 | 18.72 | 20.54 | 20.69 | 20.43 | 20.53 |
| 6 | 17.78 | 17.95 | 19.89 | 19.96 | 17.71 | 17.77 | 20.60 | 20.73 | 20.51 | 20.69 |
| 7 | 16.22 | 17.95 | 19.81 | 19.95 | 17.69 | 17.80 | 20.68 | 20.73 | 20.63 | 20.72 |
| 8 | 7.70 | 16.22 | 19.86 | 19.95 | 17.80 | 17.95 | 20.65 | 20.81 | 20.53 | 20.63 |
| 9 | 14.67 | 14.83 | 19.72 | 19.86 | ..... | ..... | 20.60 | 20.75 | 20.55 | 20.75 |
| 10 | 14.57 | 14.67 | 19.32 | 19.72 | ..... | ..... | 20.49 | 20.60 | 20.70 | 20.80 |
| 11 | 14.62 | 14.90 | 19.04 | 19.32 | ..... | 18.54 | 20.41 | 20.48 | 20.75 | 20.93 |
| 12 | 14.90 | 15.14 | 18.95 | 19.05 | 18.54 | 18.64 | 20.39 | 20.46 | 20.92 | 20.97 |
| 13 | 15.13 | 15.37 | 18.91 | 19.02 | 18.64 | 18.78 | 20.34 | 20.42 | 20.93 | 21.02 |
| 14 | 15.37 | 15.85 | 18.85 | 18.81 | 18.75 | 18.90 | 20.38 | 20.45 | 20.99 | 21.08 |
| 15 | 15.85 | 16.25 | 18.70 | 18.81 | 18.88 | 19.01 | 20.39 | 20.72 | 20.97 | 21.04 |
| 16 | 16.25 | 16.87 | 18.69 | 18.75 | ..... | ..... | 20.71 | 20.80 | 21.01 | 21.10 |
| 17 | 16.87 | 17.20 | 18.54 | 18.70 | ..... | ..... | 20.64 | 20.72 | 21.01 | 21.09 |
| 18 | 17.20 | 17.55 | 18.43 | 18.54 | 19.65 | 19.68 | 20.39 | 20.64 | 21.01 | 21.15 |
| 19 | 17.55 | 17.94 | 18.38 | 18.42 | 19.63 | 19.71 | 20.15 | 20.39 | 21.13 | 21.29 |
| 20 | 17.94 | 18.24 | 18.15 | 18.42 | 19.68 | 19.82 | 20.05 | 20.14 | 21.29 | 21.43 |
| 21 | 18.24 | 18.53 | 18.09 | 18.16 | 19.78 | 19.83 | 19.90 | 20.14 | 21.41 | 21.45 |
| 22 | 18.53 | 18.72 | 18.13 | 18.30 | 19.77 | 19.91 | 19.90 | 20.27 | ..... | ..... |
| 23 | 18.65 | 18.86 | 18.30 | 18.59 | 19.88 | 20.05 | 20.18 | 20.27 | ..... | ..... |
| 24 | 18.65 | 18.72 | 18.59 | 18.78 | 20.02 | 20.13 | 20.08 | 20.18 | ..... | ..... |
| 25 | 18.71 | 19.08 | 18.76 | 18.82 | 20.11 | 20.25 | 20.15 | 20.28 | ..... | ..... |
| 26 | 19.03 | 19.08 | 18.80 | 18.87 | 20.14 | 20.20 | 20.29 | 20.35 | ..... | ..... |
| 27 | 19.08 | 19.16 | 18.75 | 18.85 | 20.16 | 20.28 | 20.32 | 20.40 | ..... | ..... |
| 28 | 19.14 | 19.42 | 18.76 | 18.99 | 20.23 | 20.34 | 20.21 | 20.35 | ..... | ..... |
| 29 | 19.41 | 19.53 | 18.98 | 19.09 | 20.30 | 20.38 | 20.11 | 20.21 | ..... | ..... |
| 30 | 19.50 | 19.70 | 19.05 | 19.13 | 20.25 | 20.35 | 20.19 | 20.37 | ..... | ..... |
| 31 | | | 19.08 | 19.17 | 20.21 | 20.30 |  |  | ..... | ..... |

11-3-14 (*937, p. 119; 945, p. 162; 987, p. 189; 1017, p. 365; 1024, p. 242; 1072, p. 268). Belfort Corporation. Near plant at Reedsville, Valley district. No measurements made in 1947.

11-3-51 (*937, p. 119; 945, p. 162; 987, p. 189; 1017, p. 365; 1024, p. 242; 1072, p. 269). Elmer Smith. About 1 mile northwest of Sutherland, Valley district. No measurements made in 1947.

Putnam County

39-1-6A. Town of Buffalo. At Buffalo, Buffalo district, at east end (dead end) of Sycamore Street. Unused drilled well, depth 156 feet, 8-inch steel casing. Measuring point, top of casing, 0.6 foot above land-surface datum.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|--------|-------------|---------|-------------|---------|-------------|---------|-------------|
| Jan. 4 | 54.65 | Apr. 19 | 60.57 | July 19 | 64.57 | Oct. 11 | 65.60 |
| 11 | 54.73 | 26 | 61.65 | 26 | 66.82 | 18 | 67.50 |
| 18 | 54.23 | May 10 | 63.07 | Aug. 2 | 65.73 | 26 | 69.50 |
| 25 | 55.23 | 17 | 63.15 | 9 | 67.73 | Nov. 1 | 69.50 |
| Feb. 1 | 54.15 | 24 | 62.98 | 15 | 68.65 | 8 | 69.10 |
| 15 | 54.57 | 31 | 64.23 | 23 | 67.90 | 15 | 68.80 |
| Mar. 5 | 59.90 | June 14 | 61.98 | Sept. 6 | 69.82 | 22 | 72.30 |
| 19 | 59.07 | 21 | 62.65 | 13 | 69.07 | 29 | 70.30 |
| 29 | 57.73 | 28 | 64.57 | 20 | 68.15 | Dec. 6 | 70.10 |
| Apr. 6 | 59.57 | July 5 | 67.90 | 27 | 67.60 | 13 | 70.00 |
| 12 | 62.73 | 12 | 67.23 | Oct. 4 | 68.80 | 27 | 70.60 |

39-1-7 (*987, p. 189; 1017, p. 366; 1024, p. 242; 1072, p. 269). C. C. Wears. At south edge of Buffalo, Buffalo district, near church.

Water level, in feet below land-surface datum, 1947

| | | | | | | | |
|--------|------|---------|-------|---------|-------|---------|-------|
| Jan. 4 | 2.85 | Apr. 19 | 8.18 | July 19 | 8.10 | Oct. 11 | 11.80 |
| 11 | 5.02 | 26 | 8.18 | 26 | 9.93 | 18 | 12.20 |
| 18 | 2.27 | May 10 | 9.93 | Aug. 2 | 8.10 | 26 | 12.80 |
| 25 | 1.27 | 17 | 12.18 | 9 | 9.85 | Nov. 1 | 13.70 |
| Feb. 1 | 1.18 | 24 | 11.93 | 15 | 11.10 | 8 | 9.80 |
| 15 | 6.93 | 31 | 12.18 | 23 | 10.93 | 15 | 10.90 |
| Mar. 5 | 8.27 | June 14 | 9.27 | Sept. 6 | 4.02 | 22 | 12.50 |
| 19 | 6.43 | 21 | 10.18 | 13 | 7.02 | 29 | 10.80 |
| 29 | 5.93 | 28 | 11.85 | 20 | 8.85 | Dec. 6 | 11.50 |
| Apr. 6 | 9.27 | July 5 | 12.18 | 27 | 10.20 | 13 | 11.30 |
| 12 | 9.02 | 12 | 11.93 | Oct. 4 | 11.90 | 27 | 10.80 |

39-1-8 (*987, p. 189; 1017, p. 366; 1024, p. 243; 1072, p. 269). H. E. Fruth. At Buffalo, Buffalo district, about 1 mile south of church. No measurements made in 1947.

39-1-10 (*945, p. 162; 987, p. 189; 1017, p. 366; 1024, p. 243; 1072, p. 269). Burgess Tate. At Woods, Buffalo district, along highway. No measurements made in 1947.

Wayne County

50-1-5 (*945, p. 162; 987, p. 190; 1017, p. 366; 1024, p. 243; 1072, p. 269). Ashland Oil & Refining Co. At Kenova, Ceredo district, at refining plant. No measurements made in 1947. This well was apparently dry throughout the year above the point where it is plugged (36.90 feet below land-surface datum).

50-1-5A. Ashland Oil & Refining Co. At Kenova, Ceredo district, at refining plant, approximately 800 feet west of temporarily abandoned well 50-1-5. Unused drilled well, depth 42 feet, 10-inch steel casing. Measuring point, file mark at top of casing, east side, 2.21 feet above the land-surface datum which is equivalent to the land-surface datum of temporarily abandoned well 50-1-5.

Water level, in feet below land-surface datum, 1947

| Date | Water level | Date | Water level | Date | Water level | Date | Water level |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| May 25 | 36.91 | Aug. 30 | 41.25 | Oct. 10 | 42.16 | Nov. 21 | 42.33 |
| June 27 | 37.12 | Sept. 5 | 41.37 | 17 | 42.25 | 28 | 42.75 |
| July 10 | 37.71 | 12 | 41.56 | 24 | 42.41 | Dec. 5 | 42.75 |
| 17 | 39.08 | 19 | 41.73 | 31 | 42.41 | 12 | 42.75 |
| 25 | 39.62 | 27 | 41.54 | Nov. 7 | 42.37 | 19 | 42.75 |
| 31 | 39.94 | Oct. 3 | 42.04 | 14 | 40.37 | 26 | 42.75 |
| Aug. 22 | 41.00 | | | | | | |

Wetzel County

6-1-1 (*987, p. 190; 1017, p. 366; 1024, p. 243; 1072, p. 269). Ida Monroe. At Proctor, Proctor district, about 0.75 mile east of church. No measurements made in 1947.

Wood County

27-3-20 (*987, p. 190; 1017, p. 367; 1024, p. 243; 1072, p. 270). City of Parkersburg well 4. At Parkersburg, Parkersburg district.

Lowest daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 39.01 | 35.36 | 40.40 | 38.60 | 38.63 | 35.52 | 37.85 | 39.52 | ..... | 39.29 | 42.08 | 43.43 |
| 2 | 38.55 | 34.99 | 40.44 | 38.77 | 38.71 | 36.31 | 37.92 | 39.60 | ..... | 39.31 | 42.23 | ..... |
| 3 | 38.08 | 34.54 | 40.45 | 38.76 | 38.71 | 36.79 | 38.00 | 39.60 | ..... | 39.32 | 47.19 | ..... |
| 4 | 37.70 | 34.86 | 40.51 | 38.75 | 38.71 | 36.84 | 38.09 | 39.65 | ..... | 39.34 | 42.04 | ..... |
| 5 | 36.59 | 35.32 | 40.54 | 38.48 | 38.73 | 36.60 | 38.12 | 39.65 | ..... | 39.37 | 41.97 | ..... |
| 6 | 36.18 | 35.90 | 40.50 | 37.97 | 38.60 | 36.53 | 38.12 | 39.67 | ..... | 39.32 | 41.95 | ..... |
| 7 | 36.35 | 36.80 | 40.46 | 37.15 | 38.49 | 36.59 | 38.19 | 39.65 | ..... | 39.22 | 41.92 | ..... |
| 8 | 36.95 | 37.65 | 40.56 | 36.90 | 38.50 | 36.52 | 38.29 | 39.57 | ..... | 39.15 | 41.91 | ..... |
| 9 | 37.61 | 38.28 | 40.63 | 35.95 | 38.68 | 35.30 | 38.37 | 39.37 | ..... | 39.14 | 41.90 | ..... |
| 10 | 38.06 | 38.55 | 40.66 | 35.75 | 38.84 | 33.61 | 38.44 | 39.32 | ..... | 39.14 | 41.90 | ..... |
| 11 | 38.82 | 39.01 | 40.70 | 35.86 | 39.04 | 33.15 | 38.47 | 39.25 | ..... | 39.15 | 41.91 | ..... |
| 12 | 39.05 | 39.30 | 40.73 | 36.35 | 39.40 | 33.91 | 38.55 | 39.10 | ..... | 39.15 | 41.95 | ..... |
| 13 | 39.26 | 39.60 | 40.70 | 36.86 | 39.48 | 34.45 | 38.55 | 39.02 | ..... | 39.13 | 42.18 | ..... |
| 14 | 39.53 | 39.77 | 40.70 | 37.45 | 39.48 | 34.79 | 38.55 | 39.03 | ..... | 39.13 | 42.40 | ..... |
| 15 | 39.55 | 40.40 | 40.43 | 37.85 | 39.34 | 35.05 | 38.55 | 38.98 | ..... | 39.12 | 42.52 | ..... |
| 16 | 39.00 | 40.23 | 40.16 | 38.25 | 39.31 | 35.27 | 38.55 | 38.85 | ..... | 39.16 | 42.62 | ..... |
| 17 | 38.30 | 40.29 | 39.61 | 38.50 | 39.32 | 35.55 | 38.55 | 38.87 | ..... | 40.95 | 42.78 | ..... |
| 18 | 37.71 | 40.28 | 39.37 | 38.65 | 39.25 | 36.06 | 38.62 | 38.80 | ..... | 39.31 | 42.94 | ..... |
| 19 | 37.07 | 40.24 | 39.30 | 38.85 | 38.98 | 36.49 | 38.80 | 38.79 | 38.95 | 39.22 | 42.92 | ..... |
| 20 | 36.80 | 40.24 | 39.62 | 39.20 | 38.55 | 36.76 | 38.81 | 38.89 | 39.36 | 40.88 | 42.96 | ..... |
| 21 | 36.75 | 40.24 | 39.91 | 39.45 | 37.68 | 36.97 | 39.00 | 39.10 | 39.57 | 41.02 | 42.96 | ..... |
| 22 | 36.17 | 40.25 | 40.07 | 39.44 | 37.30 | 37.08 | 39.20 | ..... | 39.70 | 39.35 | 42.98 | ..... |
| 23 | 35.44 | 40.30 | 40.20 | 39.26 | 36.47 | 37.15 | 39.21 | ..... | 39.57 | 39.24 | 43.03 | ..... |
| 24 | 35.62 | 40.35 | 40.19 | 39.07 | 35.95 | 37.25 | 39.30 | ..... | 39.53 | 39.22 | 43.02 | ..... |
| 25 | 35.83 | 40.37 | 40.17 | 39.10 | 35.75 | 37.38 | 39.32 | ..... | 38.38 | 39.18 | 43.02 | ..... |

27-3-20--Continued.

Lowest daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 26 | 36.09 | 40.40 | 39.95 | 39.09 | 35.70 | 37.50 | 39.35 | ..... | 39.32 | 38.19 | 43.07 | ..... |
| 27 | 36.07 | 40.42 | 39.37 | 38.95 | 35.35 | 37.57 | 39.40 | ..... | 39.31 | 38.17 | 43.10 | ..... |
| 28 | 36.04 | 40.41 | 38.68 | 38.70 | 35.15 | 37.67 | 39.25 | ..... | 39.26 | 41.54 | 43.15 | ..... |
| 29 | 35.74 | | 38.36 | 38.51 | 35.23 | 37.78 | 39.30 | ..... | 39.19 | 41.62 | 43.25 | ..... |
| 30 | 35.82 | | 38.38 | 38.57 | 35.33 | 37.78 | 39.40 | ..... | 39.27 | 41.62 | 43.34 | ..... |
| 31 | 35.82 | | 38.48 | | 35.40 | | 39.52 | ..... |  | 41.67 |  | ..... |

27-3-22 (*987, p. 191; 1017, p. 368; 1072, p. 270).

City of Parkersburg test well "P". At Parkersburg, Parkersburg district, on terrace about 700 feet from Ohio River and 600 feet northeast of municipal pumping plant.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | January | | February | | March | | April | | May | | June | |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 34.64 | 34.83 | 31.44 | 31.83 | 34.98 | 35.07 | 33.76 | 33.85 | 33.41 | 33.65 | 31.65 | 31.75 |
| 2 | 34.25 | 34.64 | 31.24 | 31.60 | 35.06 | 35.14 | 33.80 | 34.02 | 33.60 | 33.74 | 31.70 | 32.02 |
| 3 | 34.10 | 34.27 | 30.91 | 31.24 | 35.14 | 35.21 | 33.95 | 34.04 | 33.66 | 33.74 | 32.02 | 32.37 |
| 4 | 33.47 | 34.10 | 30.99 | 31.27 | 35.18 | 35.24 | 33.76 | 33.95 | 33.69 | 33.71 | 32.30 | 32.43 |
| 5 | 33.08 | 33.47 | 31.21 | 31.43 | 35.22 | 35.29 | 33.17 | 33.76 | 33.70 | 33.76 | 32.17 | 32.31 |
| 6 | 32.68 | 33.10 | 31.43 | 31.73 | 35.24 | 35.27 | 33.35 | 33.63 | 33.50 | 33.70 | 32.10 | 32.20 |
| 7 | 32.58 | 32.67 | 31.73 | 31.24 | 35.19 | 35.28 | 33.00 | 33.34 | 33.46 | 33.65 | 32.10 | 32.18 |
| 8 | 32.71 | 32.91 | 32.24 | 32.69 | 35.17 | 35.38 | 32.46 | 33.00 | 33.56 | 33.62 | 31.65 | 32.15 |
| 9 | 32.91 | 33.30 | 32.69 | 33.13 | 35.33 | 35.37 | 32.30 | 32.50 | 33.60 | 33.74 | 30.75 | 31.65 |
| 10 | 33.30 | 33.51 | 33.13 | 33.30 | 35.35 | 35.38 | 32.10 | 32.30 | 33.74 | 33.84 | 30.25 | 30.75 |
| 11 | 33.51 | 33.94 | 33.30 | 33.61 | 35.37 | 35.41 | 32.01 | 32.26 | 33.84 | 33.91 | 30.10 | 30.25 |
| 12 | 33.94 | 34.15 | 33.61 | 33.75 | 35.38 | 35.43 | 32.26 | 32.47 | 33.91 | 34.13 | 30.10 | 30.33 |
| 13 | 34.14 | 34.33 | 33.75 | 33.97 | 35.25 | 35.43 | 32.47 | 32.56 | 34.13 | 34.21 | 30.33 | 30.65 |
| 14 | 34.33 | 34.52 | 33.97 | 34.10 | 35.33 | 35.47 | 32.56 | 32.93 | 34.20 | 34.26 | 30.65 | 30.95 |
| 15 | 34.25 | 34.60 | 34.10 | 34.41 | 35.15 | 35.33 | 32.93 | 33.12 | 34.08 | 34.21 | 30.92 | 31.09 |
| 16 | 33.97 | 34.25 | 34.41 | 34.58 | 34.85 | 35.15 | 33.08 | 33.46 | 34.08 | 34.19 | 31.08 | 31.20 |
| 17 | 33.62 | 33.92 | 34.58 | 34.66 | 34.63 | 34.85 | 33.45 | 33.55 | 34.08 | 34.17 | 31.20 | 31.30 |
| 18 | 33.28 | 33.62 | 34.60 | 34.73 | 34.43 | 34.67 | 33.52 | 33.62 | 33.99 | 34.11 | 31.30 | 31.73 |
| 19 | 33.06 | 33.28 | 34.64 | 34.72 | 34.38 | 34.47 | 33.60 | 33.73 | 33.69 | 33.99 | 31.73 | 31.96 |
| 20 | 32.89 | 33.15 | 34.65 | 34.75 | 34.47 | 34.65 | 33.67 | 33.95 | 33.27 | 33.69 | 31.96 | 32.24 |
| 21 | 32.83 | 33.18 | 34.73 | 34.79 | 34.65 | 34.84 | 33.92 | 34.15 | 33.10 | 33.27 | 32.24 | 32.42 |
| 22 | 32.42 | 32.83 | 34.75 | 34.81 | 34.84 | 34.96 | 34.01 | 34.14 | 32.75 | 33.18 | 32.40 | 32.53 |
| 23 | 32.16 | 32.42 | 34.80 | 34.90 | 34.90 | 35.00 | 33.88 | 34.04 | 32.50 | 32.75 | 32.53 | 32.59 |
| 24 | 32.14 | 32.20 | 34.88 | 34.96 | 34.81 | 35.02 | 33.85 | 33.90 | 32.25 | 32.50 | 32.59 | 32.70 |
| 25 | 32.20 | 32.29 | 34.95 | 35.00 | 34.94 | 35.02 | 33.77 | 34.02 | 32.14 | 32.35 | 32.90 | 32.78 |
| 26 | 32.20 | 32.40 | 35.00 | 35.02 | 34.67 | 34.94 | 33.84 | 34.01 | 32.01 | 32.30 | 32.78 | 32.92 |
| 27 | 32.20 | 32.36 | 35.02 | 35.08 | 34.20 | 34.67 | 33.72 | 33.84 | 31.79 | 32.01 | 32.90 | 32.99 |
| 28 | 32.03 | 32.27 | 35.02 | 35.10 | 33.88 | 34.22 | 33.53 | 33.77 | 31.65 | 31.82 | 32.98 | 33.10 |
| 29 | 31.98 | 32.04 | | | 33.73 | 33.88 | 33.42 | 33.60 | 31.60 | 31.81 | 33.10 | 33.19 |
| 30 | 31.89 | 32.13 | | | 33.75 | 33.95 | 33.49 | 33.61 | 31.68 | 31.80 | 33.15 | 33.20 |
| 31 | 31.83 | 32.13 | | | 33.75 | 33.85 | | | 31.44 | 31.55 | | |

27-3-22--Continued.

High and low daily water level, in feet below land-surface datum, 1947
(From recorder charts)

| Day | July | | August | | September | | October | | November | | December | |
|-----|-------|-------|--------|-------|-----------|-------|---------|-------|----------|-------|----------|-------|
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| 1 | 33.18 | 33.30 | 34.60 | 34.57 | 34.23 | 34.30 | 34.74 | 34.83 | 35.33 | 35.44 | ..... | ..... |
| 2 | 33.30 | 33.36 | 34.51 | 34.61 | 34.21 | 34.30 | 34.76 | 34.83 | 35.44 | 35.49 | ..... | ..... |
| 3 | 33.36 | 33.43 | 34.57 | 34.63 | 34.22 | 34.30 | 34.79 | 34.85 | 35.44 | 35.50 | ..... | ..... |
| 4 | 33.36 | 33.50 | 34.61 | 34.68 | 34.18 | 34.26 | 34.77 | 34.86 | 35.50 | 35.53 | ..... | ..... |
| 5 | 33.50 | 33.55 | 34.61 | 34.68 | 34.15 | 34.25 | 34.82 | 34.88 | 35.49 | 35.56 | ..... | ..... |
| 6 | 33.54 | 33.55 | 34.66 | 34.73 | 34.21 | 34.26 | 34.76 | 34.85 | 35.54 | 35.59 | ..... | ..... |
| 7 | 33.54 | 33.65 | 34.68 | 34.76 | 34.19 | 34.27 | 34.72 | 34.80 | 35.41 | 35.63 | 36.33 | ..... |
| 8 | 33.65 | 33.71 | 34.65 | 34.75 | 34.20 | 34.25 | 34.73 | 34.77 | 35.51 | 35.62 | ..... | ..... |
| 9 | 33.70 | 33.78 | 34.66 | 34.72 | 34.21 | 34.26 | 34.74 | 34.78 | 35.60 | 35.65 | ..... | ..... |
| 10 | 33.76 | 33.84 | 34.66 | 34.75 | 34.24 | 34.29 | 34.75 | 34.79 | 35.54 | 35.63 | ..... | ..... |
| 11 | 33.84 | 33.88 | 34.57 | 34.66 | 34.23 | 34.30 | 34.75 | 34.80 | 35.50 | 35.62 | ..... | ..... |
| 12 | 33.88 | 33.95 | 34.50 | 34.59 | 34.30 | 34.45 | 34.75 | 34.81 | 35.62 | 35.81 | ..... | ..... |
| 13 | 33.87 | 33.96 | 34.53 | 34.64 | 34.37 | 34.49 | 34.73 | 34.77 | ..... | ..... | ..... | ..... |
| 14 | 33.88 | 33.95 | 34.50 | 34.61 | 34.48 | 34.52 | 34.71 | 34.79 | ..... | ..... | 36.31 | 36.41 |
| 15 | 33.91 | 33.97 | 34.45 | 34.54 | 34.51 | 34.66 | 34.74 | 34.81 | ..... | ..... | 36.24 | 36.41 |
| 16 | 33.96 | 34.00 | 34.46 | 34.52 | 34.55 | 34.64 | 34.76 | 34.82 | 35.83 | ..... | 36.39 | 36.52 |
| 17 | 33.98 | 34.03 | 34.47 | 34.52 | 34.55 | 34.65 | 34.81 | 34.91 | ..... | ..... | 36.38 | 36.47 |
| 18 | 33.98 | 34.04 | 34.41 | 34.47 | 34.49 | 34.57 | 34.82 | 34.88 | ..... | ..... | 36.39 | 36.45 |
| 19 | 34.02 | 34.12 | 34.35 | 34.46 | 34.42 | 34.55 | 34.82 | 34.86 | ..... | ..... | 36.43 | 36.49 |
| 20 | 34.01 | 34.12 | 34.38 | 34.45 | 34.55 | 34.62 | 34.85 | 34.91 | ..... | ..... | 36.40 | 36.48 |
| 21 | 34.05 | 34.17 | 34.43 | 34.54 | 34.54 | 34.74 | 34.86 | 34.95 | ..... | ..... | 36.45 | 36.52 |
| 22 | 34.17 | 34.30 | 34.43 | 34.50 | 34.72 | 34.84 | 34.82 | 34.90 | ..... | ..... | 36.45 | 36.50 |
| 23 | 34.30 | 34.35 | 34.49 | 34.55 | 34.75 | 34.80 | 34.82 | 34.90 | 36.03 | ..... | 36.50 | 36.58 |
| 24 | 34.34 | 34.41 | 34.49 | 34.55 | 34.75 | 34.80 | 34.82 | 34.87 | ..... | ..... | 36.53 | 36.58 |
| 25 | 34.39 | 34.43 | 34.50 | 34.53 | 34.76 | 34.80 | 34.82 | 34.87 | ..... | ..... | 36.53 | 36.59 |
| 26 | 34.37 | 34.44 | 34.51 | 34.56 | 34.76 | 34.82 | 34.80 | 34.87 | ..... | ..... | 36.58 | 36.65 |
| 27 | 34.39 | 34.50 | 34.54 | 34.60 | 34.75 | 34.80 | 34.74 | 34.86 | ..... | ..... | 36.59 | 36.68 |
| 28 | 34.32 | 34.44 | 34.50 | 34.57 | 34.65 | 34.67 | 34.80 | 35.06 | ..... | ..... | 36.66 | 36.74 |
| 29 | 34.42 | 34.45 | 34.45 | 34.54 | 34.67 | 34.73 | 35.05 | 35.16 | ..... | ..... | 36.71 | 36.75 |
| 30 | 34.41 | 34.50 | 34.34 | 34.45 | 34.73 | 34.82 | 35.16 | 35.25 | 36.16 | ..... | 36.71 | 36.76 |
| 31 | 34.42 | 34.57 | 34.28 | 34.43 | ..... | ..... | 35.25 | 35.33 | ..... | ..... | 36.74 | 36.77 |